Addendum Number Three
To The Drawings and Specifications for
Juvenile Services Building
RFB Bid Number: 26-0021, Sedgwick County, Kansas

Issued: November 10, 2026

HANNEY & ASSOCIATES ARCHITECTS
1726 South Hillside, Wichita, Kansas

NOTICE TO BIDDERS
You are hereby instructed to include in your bids the following changes and/or corrections to the Drawings and Specifications for the **Construction of the New Juvenile Services Building at 881 S. Minnesota, Wichita, Kansas 67211.**

The additions and/or corrections shall be considered as a part of the Contract Documents as if incorporated therein. Where the following corrections and/or additions vary from the conditions of the Drawings and Specifications, such following changes or additions shall govern.

I. GENERAL CLARIFICATIONS:

1.1 The Bid Date will remain Tuesday, November 17th.
The Bid Time will remain unchanged.

1.2 Bid Form
A revised Bid Form is being issued with this addendum. The revised bid form is to be utilized when submitting a bid.

1.3 Approved Equals
Company's approved equals to the original specified suppliers are required to meet all requirements of the plans, specifications, standards of performance and construction as established by the first-named originally specified manufacturer's product.

1.4 Attic Stock
The General Contractor shall provide Attic Stock for the Owner, at project completion. Each stock item will be a full, complete, unopened container of each actual product installed, and of each type of style and color installed for each product; with each box clearly marked.

a. Tile: One (1) box each type
b. Acoustical Ceiling Tile: Two (2) boxes each type
c. Wall Base: One (1) box or 20-foot coil, each color
d. Carpet Tile: Two (2) boxes each type / pattern / color
e. Paint: One (1) gallon each color
f. Trespa: One (1) box each type / color
g. Dispensers (Towel, Soap, etc.): Two (2) of each
h. Hookless Shower Curtain: Two (2)

1.6 Steel AISC Certification

Specification Section 051200 – Structural Steel, paragraph 6-Quality Assurance, item 6.2.3 requires the fabrication shop / welders to be AISC Certified. For this project the specified AISC certification has been waived provided the GC provided special inspections of the welds.

1.7. Sports Equipment:

a. All references to wall pads in gym (B140) as an alternate are to be revised to be read as base bid. All references to gym dividing curtain are to be removed – not included in project.

b. Sports Equipment to be provided in base bid:
All wall pads as shown in the drawings and listed in the specifications.
(1) wall mounted, adjustable height, basketball goal on the west wall of the gym B140.

1.8 Spray Applied Fireproofing Clarification:

In the R150 wing, provide continuous spray-applied fireproofing throughout the full extent of the fire-resistance-rated horizontal assembly separating the first-floor Group I-2 occupancy from the second-floor Group B occupancy. Apply fireproofing to all surfaces and supporting members requiring protection, at the thicknesses specified in the applicable listed assembly.

II. CHANGES TO THE SPECIFICATIONS:

2.1 INDEX

The Index has been revised and is being re-issued with this addendum.

2.2 Section 033000 – Cast-in-Place Concrete

This Section has been revised and is being re-issued with this addendum.

2.3 Section 033536 – Polished and Dyed Concrete Floor System

This Section shall be deleted from the specification.

2.4 Section 034000 - Prestressed Structural Concrete Components

The expected “R” value for the wall panel assembly should be in the range of R7.8 to R9.0 for the 2” of EPS insulation specified.

2.5 Specification Section 051200 – Structural Steel,

Paragraph 6-Quality Assurance, item 6.2.3 requires the fabrication shop / welders to be AISC Certified. For this project the specified AISC certification has been waived, provided the GC provided special inspections of the welds.

2.6 Section 084000 – Storefronts

a. Paragraph 4, Item 4.1, revise refer to sheet A3.2 to read as sheet A3.3 and A3.4

b. Paragraph 4, Item 4.3 Approved Manufactures, add “Metaltek Fabricating, Inc. – Chicago Bullet Proof Systems” as an approved manufacturer and product for window types “T”, “U”, and “V” as indicated on sheet A3.3.

Contact Information
Metaltek Fabricating, Inc.
Chicago Bullet Proof System Systems
2595 Bond Street
University Park, IL 60484
Bill Crane – Project Manager
(708) 534-9102 x 1000
bill@chicagobulletproof.com

2.7 Section 087100 – Door Hardware
This Section has been revised and is being re-issued with this addendum.

2.8 Section 088000 - Glazing
Paragraph 13 Bullet Proof Transaction Windows, Chicago Bullet Proof Systems is an approved glass supplier. Refer to Section 084000 – Storefronts for Chicago Bullet's contact information.

2.9 Section 075423 – Thermoplastic Polyolefin (TPO) Roofing
Paragraph 10 – TPO Membrane Roofing, item 10.1.1, In addition to the originally specified roofing manufacture, the following are approved roofing manufactures:

a. Johns-Mansville
b. Firestone
c. Versico

2.10 Section 088300 – Mirrors
This Section shall be deleted from the specification.

2.11 Section 088000 – Glazing

a. Paragraph 10, Manufactures, add Saftifirst – fire rated glass as an approved supplier of rated fire glass.
Contact Information
Armane Pita – Marketing Coordinator
(415) 230-6760
ArmaneP@safti.com

b. Paragraph 13, Item 13.1.6 Approved Product, Chicago Bullet Proof Systems, Type SATW, SAVL, and SLDTW

2.12 Section 093013 – Tiling
This Section is being issued with this addendum.

2.13 Section 095113 – Acoustical Panel Ceilings
This Section is being issued with this addendum.

2.14 Section 096513 – Resilient Base, Resilient Materials and Accessories
This Section is being issued with this addendum.

2.15 Section 101500 – Interior Specialties
This Section has been revised and is being re-issued with this addendum.

2.16 Section 101510 – Lockers
This Section is being issued with this addendum.

2.17 Section 102800 – Toilet Accessories
This Section has been revised and is being re-issued with this addendum.

2.18 Section 113013 – Appliances
This Section has been revised and is being re-issued with this addendum.

2.19 Section 115000 – Sports Equipment
This Section is being issued with this addendum.

2.20 Section 120000 – Equipment
This Section has been revised and is being re-issued with this addendum.

2.21 Section 120500 – Furnishings
This Section has been revised and is being re-issued with this addendum.

2.22 Section 136000 – Pre-Engineered Building Components
This Section shall be deleted from the specification.

2.23 23 21 23 Hydronic Pumps
(a) 2.5-H – Delete: Delete paragraph “g” under this sub-section.

2.24 23 64 23 Scroll Water Chiller
(a) 2.1-A – Add: “Quantech” to approved list of manufacturers.

2.25 Section 26000 – Basic Electrical Requirements
Section has been added to the construction documents.

2.26 Section 285000 – Emergency Radio Communication Enhancement System
Section has been added to the construction documents.

2.27 Section 285500 – RF Survey for Emergency Responder Radio System
Section has been added to the construction documents.

III. CHANGES TO THE DRAWINGS:

3.1 The following sheets are being reissued with this Addendum:

a. Architectural

Sheet A8.0, Sheet A8.1, Sheet A8.2, Sheet A8.3, Sheet A8.4, Sheet A8.5, Sheet A8.6, Sheet A8.7, Sheet A8.8, Sheet A8.9, Sheet A8.10, Sheet A8.11, Sheet A9.1, and Sheet A9.2.

b. Plumbing

Sheet P5.2: Plumbing Details – edited grease interceptor model number to be 1000-gallon grease interceptor, model GT-1000.

c. Electrical

Sheet E1.1 – with updated Light Fixture schedule.
Sheet E1.4 – with updated Riser Diagram.
Sheet E3.1, Sheet E3.2, Sheet E3.4, Sheet E3.5 – with updated Lighting Plans.

3.2 Sheet A1.5

Detail A: Storage Room B142 elevations are found on Sheet A6.11. See details 3, 4, 5 and 6.

3.3 Sheet MD1.1

Addendum 2, item 2.14 addresses BAS modifications but does not address the mechanical unit near Building "B". This unit is existing unit (E) AHU-B3 which is to remain.

END OF ADDENDUM THREE

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2026

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Section 012600 Contract Modification Procedures ..... 2 pages
Section 012900 Payment Procedures ..... 6 pages
Section 013100 Project Management and Coordination ..... 11 pages
Section 013200 Construction Progress Documentation ..... 11 pages
Section 013233 Photographic Documentation ..... 3 pages
Section 013300 Submittal Procedures ..... 11 pages
Section 014000 Quality Requirements ..... 12 pages
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Section 017300 Execution ..... 11 pages
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HANNEY & ASSOCIATES ARCHITECTS
▪ 1726 South Hillside ▪ Wichita, Kansas 67211 ▪ (316) 683-8965 ▪

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CONSTRUCT NEW
JUVENILE SERVICES BUILDING

BID FORM REVISED – ADDENDUM 3

BID PROVIDED BY:

_____

(Company Name)

I have received the Bid Documents, Specifications, and Construction Documents, collectively known as the Contract Documents for Construction of the

CONSTRUCT NEW JUVENILE SERVICES BUILDING

COUNTY REQUEST FOR BID (RFB) NUMBER 26-0021

as prepared by the Architect, Chris Hanney, Hanney and Associates Architects:

In submitting this Bid, I agree:

1. To hold my Bid open for 60 days after the date of this Bid.

2. To enter into and execute a Contract, if awarded on the basis of this Bid, and to proceed in accordance with the requirements of the General Conditions and Contract Form.

3. To provide all labor, materials, equipment, tools of trades and labor, accessories, appliances, warranties and guarantees, and to pay all royalties, fees, permits, licenses and applicable taxes necessary to complete the work in accordance with the proposed Contract Documents.

4. To remove and haul away from the construction site any and all debris arising from this contract and to assume sole liability for all removal, handling, and dumping of debris.

5. To comply with any and all local, state, federal or other governmental laws, rules and regulations with respect to the transportation, disposal, and dumping of debris and other excavated materials and Contractor shall secure any and all necessary permits and approvals incident to said transportation, dumping and disposal.

6. To further agree to indemnify and hold the Owner and Designer harmless from any and all claims and/or damage of any kind whatsoever as a result of the Contractor's performance of this Contract.

7. That attached to this Bid is one copy of the Certificate of Insurance including Contractor's General Automotive Liability, Workers Compensation Insurance and Owner's Liability Insurance.

8. **CALENDAR DAYS:**
   The Undersigned agrees to reach substantial completion of the Work in _____ consecutive calendar days from the date of Notice to Proceed. **This includes material lead times.**

   The Undersigned agrees to reach final completion of the Work in _____ consecutive calendar days from the date of Substantial Completion.

   Total Calendar Days _____

9. **BID:**
BASE BID
To complete the Base Bid Work, in the time stipulated, in accordance with the Bidding Documents for the lump sum price of:

_____

_____Dollars ($_____).

9a. **ALTERNATE NO. 1: Exterior Glazing and Mullion Finish to Match Existing Campus**
This alternate considers the add/deduct to change the exterior glazing and mullion finishes shown in the drawings and specifications to match the existing campus buildings. Provide 1-inch insulated glazing units with Solexia glass by Vitro Architectural Glass and champagne mullion finishes at all exterior glazing locations. Interior glazing is excluded from this alternate.

_____ Dollars ($_____).

10. **ADDENDA:**
The Bidder acknowledges receipt of the following numbered Addenda:

None (__) #1 (___) #2 (___) #3 (___) #4 (___) #5 (___)

11. **AGREEMENTS:**
The Undersigned agrees to the following terms and conditions:

a. An incomplete Bid, or other information not requested which is written on this Bid Form, may be cause for rejection.
b. Read the Invitation for Bids and the Instructions to Bidders carefully.
c. The Owner reserves the right to reject any or all Bids and to waive all technicalities should such action be deemed to be in the best interest of the Owner.
d. This Bid may not be withdrawn for a period of 60 calendar days following the receipt and opening.
e. Failure to acknowledge receipt of any Addendum issued may be cause for Bid rejection.
f. In the event that changes to the work are required, the undersigned agrees that ten percent (**10 %**) total between General and Subcontractors of his net costs shall be added thereto for Overhead, Profit and General Requirements (including but not limited to, Insurance and Bonds).

12. **MAJOR SUBCONTRACTORS:**
The Undersigned acknowledges the following major subcontractors are to be used for their respective division of work. Contractors shall identify by type, any disadvantaged, minority and women-owned businesses used as a subcontractor for this project.

Subcontractor: _____

Address – City, State, Zip: _____

Additional, if necessary: _____

13. **DECLARATIONS:**

The Undersigned hereby declares he has carefully examined the Drawings and Specifications, has visited the actual location of the work, has satisfied himself as to all conditions and understands that, in signing this Bid Form, waives all right to plead any misunderstandings regarding same and agrees to be bound by the provisions of said Drawings and Specifications

and all statements made therein. The Undersigned proposes to enter into Contract and to furnish and pay for the specified Bonds and other required Documents within 10 working days after notification of award of Contract.

14. **FIRM IDENTIFYING INFORMATION:**

FIRM NAME _____

CONTACT _____

SIGNATURE _____TITLE _____

PRINT NAME _____

ADDRESS _____ CITY/STATE _____ ZIP _____

PHONE _____ FAX _____ HOURS _____

COMPANY WEBSITE ADDRESS _____ E-MAIL _____

NUMBER OF LOCATIONS _____ NUMBER OF PERSONS EMPLOYED_____

TYPE OF ORGANIZATION:

Public Corporation ___ Private Corporation___ Sole Proprietorship ___ Partnership __ Small Business __

General Nature of Business _____

Manufacturer _____ Distributor _____ Retail _____ Dealer____ Service _____

___Not Minority/Caucasian (00) publicly traded companies and nonprofits are in this category

Minority Owned Business:

___African American (05), ___Asian Pacific (10), ___Subcontinent Asian (15), ___Hispanic (20),

___Native American (25), ___Other (30) - Please specify_____,

___Not Minority/Caucasian – Woman Owned (50), ___African American – Woman Owned (55),

___Asian Pacific – Woman Owned (60), ___Subcontinent Asian – Woman Owned (65), ___Hispanic – Woman Owned (70), ___Native American – Woman Owned (75), ___Other – Woman Owned (80)

Insurance registered in the State of Kansas with a minimum best rating of A-VIII: ____Yes ___ No

15. **SIGNATURE AND SEAL:**

DATED THIS_____ _____ DAY OF _____ , 2026.

_____
LEGAL NAME OF PERSON, FIRM OR CORPORATION

_____
MAILING ADDRESS OF ABOVE

_____
SIGNATURE

_____
TELEPHONE NUMBER FAX NUMBER

(Affix Corporate Seal here)

E-MAIL

SECTION 033000

CAST-IN-PLACE CONCRETE

PART 1 – GENERAL

1. RELATED DOCUMENTS

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

2. SUMMARY

This Section specifies cast-in place concrete, including formwork, reinforcement, concrete materials, mix design, placement procedures, and finishes.

3. CODES AND STANDARDS

Perform all work in accordance with rules and regulations of authorities having jurisdiction. In the absence of other authorities comply with any State of Kansas regulations and their Adopted Building Code.

4. SUBMITTALS

4.1 Product Data: For standard factory manufactured materials.

4.2 Design Mixes

For each concrete mix. Include alternate mix designs when characteristics of materials, project conditions, weather, test results, or other circumstances warrant adjustments.

4.3 Steel Reinforcement Shop Drawings

4.3.1 Include setting plans, bending diagrams, cutting lists, and other information so as to completely and unambiguously define and establish the location, spacing, size, length, bending, shape, splicing, keying at construction joints and all other pertinent information, as required. Drawings shall show bar material and grade, bar schedules, stirrup spacing, bar arrangement, tie spacing, and hoop spacing. Opposite hand reinforcing shall be detailed separately. Each shop drawing shall show splice length for every size and type of bar used, and/or mechanical connections.

4.3.2 Type, size and location of all accessories required for the proper assembling, placing and support of the reinforcement.

4.3.3 All openings, depressions, construction and control joints, trenches, sleeves, inserts and all other Project requirements affecting reinforcing details and placing.

4.3.4 Placement drawings indicating joint layout, types, location, and dimensions for all footings and foundations, walls, and slabs on grade.

4.4 Material Test Reports
From a qualified testing agency indicating and interpreting test results for compliance of the following with requirements indicated, based on comprehensive testing of current materials.

4.5 Material Certificates
Signed by manufacturers certifying that each of the following items complies with requirements:
- 4.5.1 Cementitious materials and aggregates
- 4.5.2 Form materials and form-release agents
- 4.5.3 Steel reinforcement and reinforcement accessories
- 4.5.4 Admixtures
- 4.5.5 Waterstops
- 4.5.6 Curing materials
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- 4.5.8 Bonding agents
- 4.5.9 Adhesives
- 4.5.10 Vapor retarders
- 4.5.11 Epoxy joint filler
- 4.5.12 Joint-filler strips
- 4.5.13 Repair materials

4.6 Minutes of preinstallation conference

4.7 Floor surface flatness and levelness measurements to determine compliance with specified tolerances indicated on the Structural Drawings.

5. QUALITY ASSURANCE

5.1 Installer Qualifications
A qualified installer who employs Project personnel qualified as Flatwork Technician and Finisher and a supervisor who is a Concrete Flatwork Technician.

5.2 Responsibility
The Contractor alone shall be fully responsible for the design, strength, safety and adequacy of all formwork, shoring, bracing and all methods of construction.

5.3 Manufacturer Qualifications
A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C94 requirements for production facilities and equipment.

5.4 Source Limitations
Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant, obtain aggregate from one source, and obtain admixtures through one source from a single manufacturer.

5.5 ACI Publications
Comply with the following unless modified by requirements in the Contract Documents, current additions of ACI publications below:
5.5.1 ACI 301, "Specification for Structural Concrete."

5.5.2 ACI 318, "Building Code Requirements for Structural Concrete."

5.5.3 ACI 347, "Guide to Formwork for Concrete."

5.6 Manufacturer Qualifications
A firm experienced in manufacturing ready-mixed concrete products complying with ASTM C94 requirements for production facilities and equipment.

5.7 Retain paragraph below if Contractor or manufacturer selects testing agency for mix design, material test reports, or field quality control.

5.8 Testing Agency Qualifications
An independent testing agency, acceptable to authorities having jurisdiction, qualified according to ASTM C1077 and ASTM E329 to conduct the testing indicated, as documented according to ASTM E548.
5.8.1 Personnel conducting field tests shall be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-1 or an equivalent certification program.

5.8.2 Demolish and remove mockups when directed.

5.8.3 Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

5.9 Preinstallation Conference: Conduct conference at Project site.

6. DELIVERY, STORAGE, AND HANDLING

Deliver, store, and handle steel reinforcement to prevent bending and damage.
6.1 Avoid damaging coatings on steel reinforcement.

6.2 Repair any damaged epoxy coatings on steel reinforcement according to ASTM D3963.

PART 2 – PRODUCTS

7. FORM-FACING MATERIALS

7.1 Smooth-Formed Finished Concrete
Form-facing panels that will provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.
7.1.1 Plywood, metal, or other approved panel materials.

7.1.2 Exterior-grade plywood panels, suitable for concrete forms, complying with DOC PS 1, and as follows:
A. High-density overlay, Class 1, or better.
B. Medium-density overlay, Class 1, or better, mill-release agent treated and edge sealed.

C. Structural 1, B-B, or better, mill oiled and edge sealed.

D. B-B (Concrete Form), Class 1, or better, mill oiled and edge sealed.

7.2 Rough-Formed Finished Concrete
Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two (2) edges and one (1) side for tight fit.

7.3 Forms for Cylindrical Columns, Pedestals, and Supports
Metal, glass-fiber-reinforced plastic, paper, or fiber tubes that will produce surfaces with gradual or abrupt irregularities not exceeding specified formwork surface class. Provide units with sufficient wall thickness to resist plastic concrete loads without detrimental deformation.

7.4 Chamfer Strips: Wood, metal, PVC, or rubber strips, 3/4- by 3/4-inch, minimum.

7.5 Form-Release Agent
Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces.
7.5.1 Formulate form-release agent with rust inhibitor for steel form-facing materials.

7.6 Form Ties
Factory-fabricated, removable or snap-off metal or glass-fiber-reinforced plastic form ties designed to resist lateral pressure of fresh concrete on forms and to prevent spalling of concrete on removal.
7.6.1 Furnish units that will leave no corrodible metal closer than 1 inch to the plane of the exposed concrete surface.

7.6.2 Furnish ties with integral water-barrier plates to walls indicated to receive damp-proofing or waterproofing.

8. STEEL REINFORCEMENT

8.1 Reinforcing Bars: ASTM A615, Grade 60 (Grade 420), deformed.

8.2 Galvanized Plain-Steel Welded Wire Fabric
ASTM A185, fabricated from galvanized steel wire into flat sheets.

9. REINFORCEMENT ACCESSORIES

9.1 Bar Supports
Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire fabric in place. Manufacture bar supports according to CRSI's "Manual of Standard Practice" from steel wire, plastic, or precast concrete or fiber reinforced concrete of greater compressive strength than concrete, and as follows:
9.1.1 For concrete surfaces exposed to view where legs of wire bar supports contact forms, use CRSI Class 1 plastic-protected or CRSI Class 2 stainless-steel bar supports.

9.2 Joint Dowel Bars
Plain-steel bars, ASTM A615, Grade 60 (Grade 420). Cut bars true-to-length with ends square and free of burrs.

10. CONCRETE MATERIALS

10.1 Portland Cement: ASTM C150, Type I or Type II.

10.2 Normal-Weight Aggregate
ASTM C33, uniformly graded, and as follows:
10.1.1 Nominal Maximum Aggregate Size: 3/4-inch.
10.1.2 Fine Aggregate: Washed, inert, natural sand.

10.3 Water: Potable and complying with ASTM C94.

11. CHEMICAL ADMIXTURES

11.1 General
Admixtures certified by manufacturer to contain not more than 0.1 percent water-soluble chloride ions by mass of cementitious material and to be compatible with other admixtures and cementitious materials. Do not use admixtures containing calcium chloride.

11.2 Air-Entraining Admixture: ASTM C260 (used in exterior concrete).

11.3 Water-Reducing Admixture: ASTM C494, Type A.

12. WATERSTOPS

12.1 Chemically-Resistant Flexible Waterstops
Thermoplastic elastomer rubber waterstops, for embedding in concrete to prevent passage of fluids through joints; resistant to oils, solvents, and chemicals. Factory fabricate corners, intersections, and directional changes.
12.1.1 Available Products
A. JP Specialties, Inc.; Earth Shield TPE-Rubber
B. Vinylex Corp.; PetroStop
C. WESTEC Barrier Technologies, Inc.; 600 Series TPE-R

12.1.2 Profile: Ribbed with center bulb.

12.1.3 Dimensions: 4 inches by 3/16-inch thick: non-tapered.

12.2 Self-Expanding Strip Waterstops
Manufactured rectangular or trapezoidal strip, sodium bentonite or other hydrophylic material for adhesive bonding to concrete.
12.2.1 Products: Subject to compliance with requirements, provide one of the following:
A. Volclay Waterstop-RX; Colloid Environmental Technologies Co.
B. Conseal CS-231; Concrete Sealants, Inc.
C. Swellseal Joint; De Neef Construction Chemicals (U.S.), Inc.
D. Hydrotite; Greenstreak.
E. Mirastop; Mirafi Moisture Protection, Div. of Royal Ten Cate (USA), Inc.
F. Adeka Ultra Seal; Mitsubishi International Corporation.
G. Superstop; Progress Unlimited Inc.

13. VAPOR RETARDERS

13.1 Provide Vapor Retarder, seam tape, mastic, pipe boots, detail strip for installation under concrete slabs.

13.2 Plastic Vapor Retarder: ASTM E1745, Class A.

13.2.1 Product: Stego Industries, LLC; Stego Wrap, 15 mils (minimum).

13.2.2 WVTR of 0.008 gr./ft./hr. or lower as tested by ASTM E96.

13.2.3 Permeance rating of 0.01 perms or lower as tested by ASTM E96.

13.2.4 Puncture resistance of 2,200 grams minimum as tested by ASTM D1709.

13.2.5 Tensile strength of 45.6 lbf./in. minimum as tested by ASTM D882.

13.2.6 Chemical resistant with an indefinite life expectancy as tested by ASTM E154.

13.3 Accessories

13.3.1 Manufacturer's seam tape with water vapor transmission rate per ASTM E96 of 0.03 perms or lower.

13.3.2 Manufacturer's vapor proofing mastic with water vapor transmission rate per ASTM E96 of 0.08 perms or lower.

13.3.3 Pipe Boots: Construct pipe boots from vapor barrier material, pressure-sensitive tape and/or mastic per manufacturer's instructions.

13.3.4 Slab Perimeter: Stego Crete claw tape, 26 mil minimum, 6 inches wide.

13.4 Granular/Drainage Fill

Clean mixture of crushed stone or crushed or uncrushed gravel; ASTM D448, Size 57, with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve.

13.5 Fine-Graded Granular Material

Clean mixture of crushed stone, crushed gravel, and manufactured or natural sand; ASTM D448, Size 10, with 100 percent passing a 3/8-inch sieve, 10 to 30 percent passing a No. 100 sieve, and at least 5 percent passing No. 200 sieve; complying with deleterious substance limits of ASTM C33 for fine aggregates.

14. POLISHED CONCRETE FLOOR FINISH

14.1 Interior exposed concrete slabs shall be finished where shown on Drawings, as hereinafter described. The dusting of wearing surfaces with dry materials WILL NOT be permitted. In preparation for finishing, floor slabs shall be struck off true to the required level at or below the elevation or grade of the finished floors, as shown on the drawings.

Floors shall be left with a tolerance (Class "B") of 1/4 inches in 10 feet, except where drains occur, or a definite slope is given in which case the floors shall be finished to the lines and grades shown on the drawings, or as directed by the Architect.

14.1.1 Provide Polished Concrete Floor Finish

Basis of Design Manufacturer: Euclid Chemical, EUCO Diamond Hard
Mechanically polished and densified concrete floor, as noted.
Contact Matt Hansen – Euclid Chemical National, (952) 567-1563;
email: mhansen@euclidchemical.com.

A. Submit Product Data: Submit Manufacturer's data, including recommended procedures for mixing materials and application methods.

B. Smooth trowel floor slab. Smooth troweling provides the final surface textural surface for the interior exposed concrete floor slab.

C. Grinding and dust extraction system. Aggregate exposure Class B- Fine Aggregate "Salt and Pepper Finish". Floor Sheen polished up to 800 grit, satin finish.

D. Semi-rigid joint filler, penetrating liquid densifier

E. Applicator's qualification data.

14.2 Materials and Application – Polished Concrete Finish

Clear, high-solids, water based, non-yellowing membrane-forming, inorganic curing, sealing and hardener, material for treatment of uncovered concrete floor surfaces, complying with ASTM C1315-Type 1, Class A, and being classified as "low-odor" and with a VOC content of less than 350 g/L. Comply with the testing and product requirements of the Department of Public Health's Standard, and any applicable governmental requirements.

14.2.1 Do not apply to concrete surfaces that will receive subsequent cementious toppings, sealers, hardeners, ceramic tile, resilient flooring, wood flooring, carpeting or resinous flooring systems, unless sealer manufacturer certifies that their product conforms to requirements required by the floor finish manufacturer, and will not adversely affect floor finish application.

14.2.2 Acceptable Manufacturers

Subject to compliance with requirements, products by the following manufacturers are acceptable. All floor treatments shall be manufactured by a single manufacturer and fully compatible:

Euclid Chemical Company, www.euclidchemical.com
Master Builders / BSAF Corporation,
ChemMasters, www.chemmasters.net
Laticrete International, Inc., www.laticrete.com
SpecChem LLC, www.specchemllc.com

14.2.3 Materials

Liquid Penetrating Densifier and Sealer:
Basis of Design Product: Euco Diamond Hard, by Euclid Chemical Co.
Semi Rigid Polyurea Joint Filler, UV resistant, polyurea
Basis of Design Product: EUCO QWICKJOINT UVR, By Euclid Chemical Co.

14.2.4 Surface Preparation and Application

Surface preparation and application shall be per manufacturer's written instructions.

15. CURING MATERIALS

15.1 Evaporation Retarder
Waterborne, monomolecular film forming, manufactured for application to fresh concrete.

15.2 Absorptive Cover
AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. dry.

15.3 Moisture-Retaining Cover
ASTM C171, polyethylene film or white burlap-polyethylene sheet.

15.4 Water: Potable

15.5 Clear, Waterborne, Membrane-Forming Curing Compound
ASTM C 309, Type 1, Class A, VOC compliant
15.5.1 Products
A. MBT Protection and Repair, Div. of ChemRex; MasterKure
B. Sonneborn, Div. of ChemRex; Kure-N-Seal
C. Euclid Chemical Company (The); Super Diamond Clear VOX

16. RELATED MATERIALS

16.1 Reglets
Fabricate reglets of not less than 0.0217-inch-thick galvanized steel sheet. Temporarily fill or cover face opening of reglet to prevent intrusion of concrete or debris.

16.2 Dovetail Anchor Slots
Hot-dip galvanized steel sheet, not less than 0.0336-inch thick, with bent tab anchors. Temporarily fill or cover face opening of slots to prevent intrusion of concrete or debris.

16.3 Expansion- and Isolation-Joint-Filler Strips
ASTM D1751, asphalt-saturated cellulosic fiber or ASTM D1752, Type H, granulated cork between saturated felt or glass fiber felt.
16.3.1 Provide at slab expansion and control joints, joints between floor slabs and walls, and other isolation joints.

16.4 Non shrink grout shall be a mixture of water and a specially formulated packaged mixture approved by the Architect/Engineer, such as Masterflow 713 Plus by Master Builders, EUCO N S by Euclid Chemical Co., Crystex by L and M Construction Chemicals, or Sonogrout 14K Hy Flow by Sonneborn Contech.

16.5 Semirigid Joint Filler
Two-component, semirigid, 100 percent solids, per ASTM D2240.

16.6. Bonding Agent
ASTM C1059, standard specifications for latex agents for bonding fresh to hardened concrete, Type I.
16.6.1 Product: Euclid Chemical Company (The); Euco Weld

17. CONCRETE MIXES, GENERAL

17.1 It is the intent of this Specification to secure, for every part of the work, concrete of homogeneous structure which, when hardened, will have the required strength, appearance and resistance to weathering.

17.2 Specific concrete mix design performance criteria are shown in the structural notes on the Drawings.

17.3 Basic mix proportions shall be established by the Contractor by means of current laboratory tests made with the constituents to be used in the work. If suitable data are not available, Contractor shall engage a testing laboratory to provide them.

17.3.1 Use a qualified independent testing agency for preparing and reporting proposed mixture designs based on laboratory trial mixtures.

17.4 Admixtures: Use admixtures according to manufacturer's written instructions.

17.5 Concrete in pavements and where flat surfaces are exposed to the weather shall have an entrained air content of 5 percent ± 1 percent. All other concrete shall have an entrained air content as desired by Contractor. (Verify with Structural Engineer.)

17.6 No concrete may be placed in the work until the appropriate design mix has been reviewed and accepted by the Architect/Engineer.

17.7 If, during the progress of the work, any difficulty should occur in securing concrete of the required workability and strength, the Architect may order such changes in the proportions or materials, or both, as may be necessary. Any changes so ordered shall be made at the Contractor's expense.

18. FABRICATING REINFORCEMENT

Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

19. CONCRETE MIXING

19.1 Ready-Mixed Concrete

Measure, batch, mix, and deliver concrete according to ASTM C94 and ASTM C1116, and furnish batch ticket information.

19.1.1 When air temperature is between 85 and 90 degrees F, reduce mixing and delivery time from 1 1/2 hours to 75 minutes; when air temperature is above 90 degrees F, reduce mixing and delivery time to 60 minutes.

19.1.2 All concrete shall be ready mixed produced by a plant acceptable to the Architect. All constituents, including admixtures, shall be batched at the central batch plant.

19.2 Cold Weather Requirements

When the air temperature is at or below 45 degrees F, or when weather reports indicate that the air temperature may fall below 45 degrees F within 24 hours immediately following the completion of concrete placement, the mixing water and, if necessary, the aggregates shall be heated so that the concrete shall have a temperature of 55 degrees to 80 degrees when placed. If the mixing water is heated, it shall not have a temperature in excess of 140 degrees F at the time it is added to the cement and aggregates.

19.3 Hot Weather Requirements
During hot weather, the concrete shall, at the time it is placed, have a temperature from 55 to 80 degrees F but never above 90 degrees F. Provide crushed ice in lieu of equal weight of mixing water if necessary. Ice must be completely dissolved before placing.

PART 3 – EXECUTION

20. FORMWORK

20.1 Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until concrete structure can support such loads.

20.2 Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.

20.3 Construct forms tight enough to prevent loss of concrete mortar.

20.4 Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide crush or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical. Kerf wood inserts for forming keyways, reglets, recesses, and the like, for easy removal.
20.4.1 Do not use rust-stained steel form-facing material.

20.5 Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces. Provide and secure units to support screed strips; use strike-off templates or compacting-type screeds.

20.6 Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar. Locate temporary openings in forms at inconspicuous locations.

20.7 Chamfer exterior corners and edges of permanently exposed concrete.

20.8 Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work. Determine sizes and locations from trades providing such items.

20.9 Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.

20.10 Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.

20.11 Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement.

21. EMBEDDED ITEMS

Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use Setting Drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

21.1 Install anchor bolts, accurately located, to elevations required.

21.2 Install reglets to receive top edge of foundation sheet waterproofing and to receive through-wall flashings in outer face of concrete frame at exterior walls, where flashing is shown at lintels, shelf angles, and other conditions.

21.3 Install dovetail anchor slots in concrete structures as indicated.

22. REMOVING AND REUSING FORMS

Leave formwork for walls and other structural elements, that supports weight of concrete in place until concrete has achieved the following:

22.1 At least 75 percent of 28-day design compressive strength.

22.2 Clean and repair surfaces of forms to be reused in the Work. Split, frayed, delaminated, or otherwise damaged form-facing material will not be acceptable for exposed surfaces. Apply new form-release agent.

22.3 When forms are reused, clean surfaces, remove fins and laitance, and tighten to close joints. Align and secure joints to avoid offsets. Do not use patched forms for exposed concrete surfaces unless approved by Architect.

23. SHORES

Comply with ACI 318, ACI 301, and recommendations in ACI 347R for design, installation, and removal of shoring.

24. VAPOR RETARDERS

24.1 Ensure that subsoil is approved by geotechnical firm.

24.1.1 Level and tamp or roll granular fill per requirements in the geotechnical report.

24.2 Installation of Vapor Retarders

Place, protect, and repair vapor retarders according to ASTM E1643 and manufacturer's written instructions.

24.2.1 Unroll vapor retarder with the longest dimension parallel with the direction of the pour.

24.2.2 Lap vapor retarder over footings or seal to foundation walls.

24.2.3 Lap joints 6 inches and seal with manufacturer's recommended tape.

24.2.4 Seal all penetrations (including pipes) per manufacturer's instructions.

24.2.5 No penetration of the vapor retarder is allowed except for reinforcing steel and permanent utilities.

24.2.6 Repair damaged areas by cutting patches of vapor retarder, overlapping damaged area 6 inches and taping all 4 sides with tape.

25. STEEL REINFORCEMENT

25.1 General

Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.

25.1.1 Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

25.2 Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials.

25.3 Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover.

25.4 Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.

25.5 Install welded wire fabric in longest practicable lengths on bar supports spaced to minimize sagging. Lap edges and ends of adjoining sheets at least one mesh spacing. Offset laps of adjoining sheet widths to prevent continuous laps in either direction. Lace overlaps with wire.

25.6 Bending, tack welding, cutting or substituting reinforcement in the field, other than shown on the Contract Drawings, in any manner is prohibited, unless specific approval for each case is given by the Architect or his designate.

25.7 Before concrete is cast, check all reinforcement after it is placed to ensure that reinforcement conforms to Contract Drawings and approved shop detail drawings and Specification requirements. Such checking shall be done only by qualified, experienced personnel. In addition, the Architect's representative shall be notified at least 36 hours prior to concrete placement and given the opportunity to inspect the completed reinforcement and formwork before concrete placement.

26. JOINTS

26.1 General

Construct joints true to line with faces perpendicular to surface plane of concrete.

26.2 Construction Joints

Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.

26.2.1 Place joints perpendicular to main reinforcement. Continue reinforcement across construction joints, unless otherwise indicated. Do not continue reinforcement through sides of strip placements of floors and slabs.

26.2.2 Form keyed joints as indicated. Embed keys at least 1-1/2 inches into concrete.

26.2.3 Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.

26.2.4 Use epoxy-bonding adhesive at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.

26.3 Contraction Joints in Slabs-on-Grade
Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one fourth of concrete thickness, as follows:

26.3.1 Sawed Joints
Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch-wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.

26.4 Isolation Joints in Slabs-on-Grade
After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

26.4.1 Extend joint-filler strips full width and depth of joint, terminating flush with finished concrete surface, unless otherwise indicated.

26.4.2 Terminate full-width joint-filler strips not less than 1/2-inch or more than 1 inch below finished concrete surface where joint sealants are indicated.

26.4.3 Install joint-filler strips in lengths as long as practicable. Where more than one (1) length is required, lace or clip sections together.

26.5 Dowel Joints
Install dowel sleeves and dowels or dowel bar and support assemblies at joints where indicated.

26.5.1 Use dowel sleeves or lubricate or asphalt-coat one-half of dowel length to prevent concrete bonding to one side of joint.

27. WATERSTOPS

27.1 Flexible Waterstops
Install in construction joints as indicated to form a continuous diaphragm. Install in longest lengths practicable. Support and protect exposed waterstops during progress of Work. Field fabricate joints in waterstops according to manufacturer's written instructions.

27.2 Self-Expanding Strip Waterstops
Install in construction joints and at other locations indicated, according to manufacturer's written instructions, bonding or mechanically fastening and firmly pressing into place. Install in longest lengths practicable.

28. CONCRETE PLACEMENT

28.1 Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.

28.2 Remove water and all foreign matter from place of deposit.

28.3 Transport concrete mixes to place of final deposit as rapidly as practical by methods, which prevent segregation.

28.4 Do not add water to concrete during delivery, at Project site, or during placement unless approved by Architect/engineer.

28.4.1 Water may be added at site for waterproof concrete only, when and as required by the Integral Waterproofing Admix manufacturer.

28.5 Concrete shall be placed in such a manner as will prevent segregation.

28.6 Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.

28.6.1 Deposit concrete in horizontal layers of depth to not exceed 18 inches, formwork design pressures, and in a manner to avoid inclined construction joints.

28.6.2 Consolidate placed concrete, during and immediately after depositing, with mechanical vibrating equipment according to ACI 301.

28.6.3 Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least six (6) inches into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.

28.7 Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.

28.7.1 Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement and other embedded items and into corners.

28.7.2 Maintain reinforcement in position on chairs during concrete placement.

28.7.3 Screed slab surfaces with a straightedge and strike off to provide finished surface at exact elevations shown on Drawings. The slab thickness shall be increased where necessary to compensate for all settlements and deflection due to the weight of the wet concrete.

28.7.4 Slope surfaces uniformly to drains where required.

28.7.5 Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleedwater appears on the surface. Do not further disturb slab surfaces before starting finishing operations.

28.8 Calcium chloride shall not be used anywhere on the site for any purpose.

28.9 Cold-Weather Placement

Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.

28.9.1 When average high and low temperature is expected to fall below 40 degrees F for three (3) successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.

28.9.2 Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.

28.9.3 Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.

28.10 Hot-Weather Placement
Comply with ACI 301 and as follows:
28.10.1 Maintain concrete temperature from 55 to 80 degrees F but never above 90 degrees F at time of placement.

28.10.2 Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

28.11 Chutes, hoppers, spouts, adjacent work, etc., shall be thoroughly cleaned before and after each placement.

29. FINISHING FORMED SURFACES

29.1 Smooth-Formed Finish
As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defective areas. Remove fins and other projections exceeding 1/8-inch in height.
29.1.1 Apply to concrete surfaces exposed to public view or to be covered with a coating or covering material applied directly to concrete, such as waterproofing, damp-proofing, veneer plaster, or painting.

29.1.2 Do not apply rubbed finish to smooth-formed finish.

29.2 Related Unformed Surfaces
At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

30. FINISHING FLOORS AND SLABS

30.1 General
Comply with recommendations in ACI 302.1R for screeding, re-straightening, and Finishing operations for concrete surfaces. Do not wet concrete surfaces.

30.2 Scratch Finish
While still plastic, texture concrete surface that has been screeded and bull-floated or darbied. Use stiff brushes, brooms, or rakes.
30.2.1 Apply scratch finish to surfaces indicated and to surfaces to receive concrete floor topping or mortar setting beds for ceramic or quarry tile, portland cement terrazzo, and other bonded cementitious floor finishes (verify finish with flooring suppliers).

30.3 Float Finish
Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill low spots.

Repeat float passes and re-straightening until surface is left with a uniform, smooth, granular texture.

30.3.1 Apply float finish to surfaces indicated, to surfaces to receive trowel finish, and to floor and slab surfaces to be covered with fluid-applied or sheet waterproofing.

30.4 Trowel Finish

After applying float finish, apply first trowel finish and consolidate concrete by hand or power-driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.

30.4.1 Apply a trowel finish to surfaces indicated and to floor and slab surfaces exposed to view or to be covered with resilient flooring, carpet, ceramic or quarry tile set over a cleavage membrane, paint, or another thin film-finish coating system

30.4.2 Finish surfaces to the following tolerances, measured within 24 hours according to ASTM E1155 for a randomly-trafficked floor surface:

A. Specified overall values of flatness, F(F) 35; and of levelness, F(L) 25; with minimum local values of flatness, F(F) 24; and of levelness, F(L) 17; for slabs-on-grade

30.4.3 Finish and measure surface so gap at any point between concrete surface and an unleveled freestanding 10-foot-long straightedge, resting on 2 high spots and placed anywhere on the surface, does not exceed the following:

A. 1/4-inch

30.5 Trowel and Fine-Broom Finish

Apply a first trowel finish to surfaces where ceramic or quarry tile, or terrazzo (verify final finish required for terrazzo with installer) is to be installed by thin set method. While concrete is still plastic, slightly scarify surface with a fine broom.

30.5.1 Comply with flatness and levelness tolerances for trowel finished floor surfaces.

30.6 Broom Finish

Apply a broom finish to exterior concrete platforms, steps, and ramps, and elsewhere as indicated.

30.6.1 Immediately after float finishing, slightly roughen trafficked surface by brooming with fiber-bristle broom perpendicular to main traffic route. Coordinate required final finish with Architect before application.

31. MISCELLANEOUS CONCRETE ITEMS

31.1 Filling In

Fill in holes and openings left in concrete structures, unless otherwise indicated, after work of other trades is in place. Mix, place, and cure concrete, as specified, to blend with in-place construction. Provide other miscellaneous concrete filling indicated or required to complete Work.

31.2 Curbs

Provide monolithic finish to interior curbs by stripping forms while concrete is still green and by steel-troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded.

3.1.3 Equipment Bases and Foundations
Provide machine and equipment bases and foundations as shown on Mechanical Drawings and as directed by equipment suppliers. Set anchor bolts for machines and equipment at correct elevations, complying with diagrams or templates of manufacturer furnishing machines and equipment.

32. CONCRETE PROTECTION AND CURING

32.1 General
Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and with recommendations in ACI 301 for hot-weather protection during curing.

32.2 Evaporation Retarder
Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb./sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.

32.3 Formed Surfaces
Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing by one or a combination of the following methods:

32.4 Unformed Surfaces
Begin curing immediately after finishing concrete. Cure unformed surfaces, including floors and slabs, concrete floor toppings, and other surfaces, by one or a combination of the following methods:

32.4.1 Moisture Curing: Keep surfaces continuously moist for not less than seven (7) days with the following materials:

A. Water

B. Continuous water-fog spray

C. Absorptive cover, water saturated, and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.

32.4.2 Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Cure for not less than seven (7) days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.

A. Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive floor coverings.

B. Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive penetrating liquid floor treatments.

C. Cure concrete surfaces to receive floor coverings with either a moisture-retaining cover or a curing compound that the manufacturer recommends for use with floor coverings.

32.4.3 Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within 3 hours after initial application. Maintain continuity of coating and repair damage during curing period.

32.4.4 Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three (3) hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period.

33. FLOOR SEALER

33.1 Penetrating Liquid Floor Treatment
Prepare, apply, and finish penetrating liquid floor treatment according to manufacturer's written instructions.

33.2 Sealing Coat
Uniformly apply a continuous sealing coat of curing and sealing compound to hardened concrete by power spray or roller according to manufacturer's written instructions.

34. JOINT FILLING

34.1 Prepare, clean, and install joint filler according to manufacturer's written instructions.

34.1.1 Defer joint filling until concrete has aged at least three (3) months. Do not fill joints until construction traffic has permanently ceased.

34.2 Remove dirt, debris, saw cuttings, curing compounds, and sealers from joints; leave contact faces of joint clean and dry.

34.3 Install semi-rigid joint filler full depth in saw-cut joints and at least two (2) inches deep in formed joints. Overfill joint and trim joint filler flush with top of joint after hardening.

35. CONCRETE SURFACE REPAIRS

35.1 Defective Concrete
Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval.

35.2 Concrete surfaces shall be repaired by using either the same material as originally cast or by use of a dry pack material. Areas affected shall be chipped back square and to a depth of 1 inch minimum. Holes shall then be moistened with water for minimum of two (2) hours. Then followed by a brush coat of EUCO WELD as manufactured by Euclid Chemical Co. As soon as EUCO WELD becomes tacky, immediately plug the hole with a dry pack material consisting of 1:1 1/2 mixture of cement and concrete sand mixed slightly damp to the touch. Hammer the dry pack into the hole until dense and excess of paste appears on the surface. Finish the patch to the same texture as surrounding concrete. Color of patch after curing shall match adjacent concrete exactly. Adjust color if necessary using white cement or limestone aggregate.

35.2.1 Surface defects include color and texture irregularities, cracks, spalls, air bubbles, honeycombs, rock pockets, fins and other projections on the surface, and stains and other discolorations that cannot be removed by cleaning.

35.3 Perform structural repairs of concrete, subject to Architect's approval, using epoxy adhesive and patching mortar.

35.4 Repair materials and installation not specified above may be used, subject to Architect's approval.

36. FIELD QUALITY CONTROL

36.1 Testing Agency

General Contractor shall engage a qualified independent testing and inspecting agency to sample materials, perform tests, submit test reports during concrete placement, and prepare Special Inspection test reports.

36.2 Testing Services

Testing of composite samples of fresh concrete obtained according to ASTM C172 shall be performed according to the following requirements:

36.2.1 Testing Frequency: Obtain one composite sample, consisting of a set of three (3) cylinders, for each days casting or every 50 cu. yd., but not less than ACI 318-02 or local building code requirements.

36.2.2 Slump: ASTM C143; one (1) test at point of placement for each composite sample, but not less than 1 test for each day's pour of each concrete mix. Perform additional tests when concrete consistency appears to change.

36.2.3 Air Content: ASTM C231, pressure method, for normal-weight concrete; one test for each composite sample, but not less than one (1) test for each day's pour of each concrete mix.

36.2.4 Concrete Temperature: ASTM C1064; 1 test hourly when air temperature is 40 degrees F and below and when 80 degrees F and above, and one test for each composite sample.

36.2.5 Those portions of the structure that do not meet the Contract requirements shall be corrected or removed and replaced as directed by the Architect, and all cost of correction, removal and replacement shall be at the Contractor's expense.

36.2.6 The Contractor shall notify the Architect and testing agency not less than 24 hours in advance of the starting of any Project concrete operations.

36.2.7 The Contractor shall cooperate by allowing clear and safe access to the work for sampling, inspection and storage of specimens and equipment. He shall construct a storage box on the site of sufficient size to store 24 cylinders and which will afford the protection required by ASTM C31.

36.3. Test results shall be reported in writing to Architect, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mix proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.

36.4 Nondestructive Testing
Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.

36.5 Additional Tests
Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C42 or by other methods as directed by Architect.

36.6 Vapor retarder shall be inspected and approved by manufacturer's representative and photographed for documentation before beginning of any concrete installation.

End of Section 033000

SECTION 087100

DOOR HARDWARE

PART 1 – GENERAL

1. RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

2. SUMMARY

2.1 This Section includes commercial door hardware for the following:

A. Swinging doors

B. Other doors to the extent indicated

2.2 Door hardware includes, but is not necessarily limited to, the following:

A. Mechanical door hardware

B. Electromechanical door hardware

C. Automatic operators

D. Cylinders specified for doors in other sections

2.3 Related Sections:

A. Division 01 Section "General Conditions”

B. Division 06 Section “Rough Carpentry”

C. Division 06 Section “Finish Carpentry”

D. Division 08 Section “Operations and Maintenance”

E. Division 08 Section “Hollow Metal Doors and Frames”

F. Division 08 Section “Flush Wood Doors”

G. Division 08 Section “Aluminum-Framed Entrances and Storefronts”

H. Division 08 Section “Automatic Door Operators”

I. Division 26 Section "Electrical”

2.4 Codes and References: Comply with the version adopted by the Authority Having Jurisdiction.

A. ANSI A117.1 - Accessible and Usable Buildings and Facilities.

B. ICC 500-2014/2020/2023, ICC/NSSA Standard for the Design and Construction of Storm Shelters.

C. ICC/IBC - International Building Code.

D. NFPA 70 - National Electrical Code.

E. NFPA 80 - Fire Doors and Windows.

F. NFPA 101 - Life Safety Code.

G. NFPA 105 - Installation of Smoke Door Assemblies.

H. UL/ULC and CSA C22.2 - Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.

I. State Building Codes, Local Amendments.

2.5. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

A. ANSI/BHMA Certified Product Standards - A156 Series.

B. UL10C - Positive Pressure Fire Tests of Door Assemblies.

C. ANSI/UL 294 - Access Control System Units.

D. UL 305 - Panic Hardware.

E. ANSI/UL 437- Key Locks.

3. SUBMITTALS

3.1 Product Data

Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

3.2 Door Hardware Schedule

Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

3.2.1 Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

3.2.2 Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3.2.3 Content: Include the following information:

A. Type, style, function, size, label, hand, and finish of each door hardware item.

B. Manufacturer of each item.

C. Fastenings and other pertinent information.

D. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.

E. Explanation of abbreviations, symbols, and codes contained in schedule.

F. Mounting locations for door hardware.

G. Door and frame sizes and materials.

H. Warranty information for each product.

3.2.4 Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

3.3 Shop Drawings

Details of electrified access control hardware indicating the following:

3.3.1 Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

A. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.

B. Complete (risers, point-to-point) access control system block wiring diagrams.

C. Wiring instructions for each electronic component scheduled herein.

3.3.2 Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

3.4 Proof of Qualification

Provide copy of manufacturer(s) Factory Trained Installer documentation indicating proof of status as a qualified installer of tornado or hurricane storm shelter assemblies.

3.5 Keying Schedule

After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

3.6 Informational Submittals

Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

4. CLOSEOUT SUBMITTALS

4.1 Operating and Maintenance Manuals

Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

4.1.1 Maintenance manual must be provided for tornado/hurricane storm shelter impact protective systems.

4.2 Project Record Documents

Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

5. QUALITY ASSURANCE

5.1 Manufacturers Qualifications

Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

5.2 Certified Products

Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

5.3 Installer Qualifications

A minimum 5 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

5.4 Door Hardware Supplier Qualifications

Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electro-mechanical door hardware and keying.

5.5 Storm Shelter Impact Protective Assembly Installer Qualifications

Installers are to be factory trained for shop and field installation prior to project bid, and are responsible for commissioning, servicing, and warranting the installed equipment specified for the project. A pre-installation site inspection of the frame and floor conditions shall be conducted by the factory trained installer prior to any Storm Shelter Impact Protective assembly hardware applied to the opening.

5.6 Source Limitations
Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

5.6.1 Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

5.6.2 Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

5.7 Storm Shelter Openings
Provide complete door systems for hurricane or tornado resistant storm shelters and other areas of refuge complying and tested according to ICC 500 (2014/2020/2023), ICC/NSSA Standard for the Design and Construction of Storm Shelters.

5.8 Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

5.9 Keying Conference
Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

A. Function of building, purpose of each area and degree of security required.

B. Plans for existing and future key system expansion.

C. Requirements for key control storage and software.

D. Installation of permanent keys, cylinder cores and software.

E. Address and requirements for delivery of keys.

5.10 Pre-Submittal Conference
Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

5.10.1 Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.

5.10.2 Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.

5.10.3 Review sequence of operation narratives for each unique access controlled opening.

5.10.4 Review and finalize construction schedule and verify availability of materials.

5.10.5 Review the required inspecting, testing, commissioning, and demonstration procedures

5.10 At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

6. DELIVERY, STORAGE AND HANDLING

6.1 Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

6.2 Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

6.3 Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

7. COORDINATION

7.1 Templates

Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

7.2 Door and Frame Preparation

Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

8. WARRANTY

8.1 General Warranty

Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

8.2 Warranty Period

Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

8.2.1 Structural failures including excessive deflection, cracking, or breakage.

8.2.2 Faulty operation of the hardware.

8.2.3 Deterioration of metals, metal finishes, and other materials beyond normal weathering.

8.2.4 Electrical component defects and failures within the systems operation.

8.3 Warranty Period
Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

9. MAINTENANCE SERVICE

9.1 Maintenance Tools and Instructions
Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

9.2 Storm Shelter Openings
Furnish a complete set of operational and maintenance instructions as needed for Owner's continued adjustment, maintenance, and repairs of door hardware as required by ICC 500 (2020), ICC/NSSA Standard for the Design and Construction of Storm Shelters.

PART 2 – PRODUCTS

10. MATERIAL

Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

11. BUTT HINGES

Hinges
ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

11.1 Quantity: Provide the following hinge quantity:

A. Two Hinges: For doors with heights up to 60 inches

B. Three Hinges: For doors with heights 61 to 90 inches

C. Four Hinges: For doors with heights 91 to 120 inches

D. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches

11.2 Hinge Size
Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

A. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.

B. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.

11.3 Hinge Weight and Base Material
Unless otherwise indicated, provide the following:

A. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.

B. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

11.4 Hinge Options: Comply with the following:
A. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.

11.5 Manufacturers:
A. Hager Companies (HA) - BB Series, 5-knuckle
B. McKinney (MK) - TA/T4A Series, 5-knuckle
C. dormakaba BEST (ST) - F/FBB Series, 5-knuckle

12. CONTINUOUS HINGES

12.1 Continuous Geared Hinges
ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
12.1.1 Where specified, provide modular continuous geared hinges that ship in two or three pieces and form a single continuous hinge upon installation.

12.1.2 Manufacturers:.
A. Hager Companies (HA)
B. Pemko (PE)

12.2 Pin and Barrel Continuous Hinges
ANSI/BHMA A156.26 Grade 1-600 pin and barrel continuous hinges with minimum 14 gauge Type 304 stainless steel hinge leaves, concealed stainless pin, and twin self-lubricated nylon bearings at each knuckle separation. Factory trim hinges to suit door height and prepare for electrical cut-outs.
12.2.1 Manufacturers:
A. Markar Products; ASSA ABLOY Architectural Door Accessories (MR)

12.2.2 Manufacturers (Storm Shelter Assemblies)
A. Markar Products; ASSA ABLOY Architectural Door Accessories (MR)
B. No Substitution

13. POWER TRANSFER DEVICES

13.1 Electrified Quick Connect Transfer Hinges
Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets with a 1-year warranty. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
13.1.1 Manufacturers:
A. Hager Companies (HA) - ETW-QC (# wires) Option
B. McKinney (MK) - QC (# wires) Option

13.2 Concealed Quick Connect Electric Power Transfers
Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

13.2.1 Manufacturers:

A. Pemko (PE) - EL-CEPT Series

B. Securitron (SU) - EL-CEPT Series

13.3 Electric Door Wire Harnesses
Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

13.3.1 Provide one each of the following tools as part of the base bid contract:

A. McKinney (MK) - Electrical Connecting Kit: QC-R001

B. McKinney (MK) - Connector Hand Tool: QC-R003

13.3.2 Manufacturers

A. Hager Companies (HA) - Quick Connect

B. McKinney (MK) - QC-C Series

14. DOOR OPERATING TRIM

14.1 Flush Bolts and Surface Bolts
Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.

14.1.1 Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.

14.1.2 Furnish dust proof strikes for bottom bolts.

14.1.3 Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.

14.1.4 Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

14.1.5 Manufacturers:

A. Burns Manufacturing (BU)

B. Door Controls International (DC)

C. Rockwood (RO)

14.2 Coordinators: ANSI/BHMA A156.3 door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.

14.2.1 Manufacturers:

A. Burns Manufacturing (BU)

B. Door Controls International (DC)

C. Rockwood (RO)

14.3 Door Push Plates and Pulls

ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

14.3.1 Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.

14.3.2 Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.

14.3.3 Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.

14.3.4 Pulls shall be provided with a 10” clearance from the finished floor on the push side to accommodate wheelchair accessibility.

14.3.5 Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.

14.3.6 Manufacturers

A. Burns Manufacturing (BU)

B. Hiawatha, Inc. (HI)

C. Rockwood (RO)

15. CYLINDERS AND KEYING

15.1 General

Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

15.2 Cylinder Types

Original manufacturer cylinders able to supply the following cylinder formats and types:

15.2.1 Threaded mortise cylinders with rings and cams to suit hardware application.

15.2.2 Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.

15.2.3 Bored or cylindrical lock cylinders with tailpieces as required to suit locks.

15.2.4 Tubular deadlocks and other auxiliary locks.

15.2.5 Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.

15.3 Large Format Interchangeable Cores
Provide removable cores (LFIC) as specified, core insert, removable by use of a special key, and for use with only the core manufacturer's cylinder and door hardware.

15.4 Patented Cylinders
ANSI/BHMA A156.5, Grade 1 Certified Products Directory (CPD) listed cylinders employing a utility patented and restricted keyway requiring the use of a patented key. Cylinders are to be protected from unauthorized manufacture and distribution by manufacturer’s United States patents. Cylinders are to be factory keyed with owner having the ability for on-site original key cutting.

15.4.1 Patented key systems shall not be established with products that have an expired patent. Expired systems shall only be specified and supplied to support existing systems.

15.4.2 Manufacturers

A. Corbin Russwin (RU) - Access 3 AP

B. Sargent (SA) - Degree DG1

C. No Substitution

15.5 Keying System: Each type of lock and cylinders to be factory keyed.

15.5.1 Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.

15.5.2 Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.

15.5.3 New System: Key locks to a new key system as directed by the Owner.

15.6 Key Quantity: Provide the following minimum number of keys:

A. Change Keys per Cylinder: Two (2)

B. Master Keys (per Master Key Level/Group): Five (5)

C. Construction Keys (where required): Ten (10)

D. Construction Control Keys (where required): Two (2)

E. Permanent Control Keys (where required): Two (2)

15.7 Construction Keying: Provide construction master keyed cylinders.

15.8 Construction Keying: Provide temporary keyed construction cores.

15.9 Key Registration List (Bitting List):

15.9.1 Provide keying transcript list to Owner's representative in the proper format for importing into key control software.

15.9.2 Provide transcript list in writing or electronic file as directed by the Owner.

16. KEY CONTROL

11.1 Key Control Cabinet

Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

11.1.1 Manufacturers

A. Lund Equipment (LU)

B. MMF Industries (MM)

C. Telkee (TK)

17. MORTISE LOCKS AND LATCHING DEVICES

Mortise Locksets, Grade 1 (Heavy Duty)

Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.

17.1 Provide locksets with functions and features as follows:

A. Heavy duty 12-gauge wrought steel case.

B. Stainless steel 3/4" one-piece anti-friction reversible latchbolt with a one-piece hardened stainless steel 1” projection deadbolt.

C. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.

D. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.

E. Meets UL Certification Directory ZHLL.R21744 for products used in windstorm rated assemblies.

F. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA 156.13 requirements to 14.5 million cycles or greater.

G. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA 156.13 requirements to 16 million cycles or greater.

H. Status indicators inside, outside, or on both sides of doors as specified; available with wording for “locked/unlocked”, “vacant/occupied” or custom wording options. Indicator to be located above the cylinder with the inside thumb-turn not blocking the visibility of the indicator status.

I. Ten-year limited warranty for mechanical functions.

17.2 Manufacturers:

A. Corbin Russwin Hardware (RU) - ML2000 Series

B. Sargent Manufacturing (SA) - 8200 Series

18. LOCK AND LATCH STRIKES

18.1 Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

18.1.1 Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.

18.1.2 Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.

18.1.3 Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.

18.1.4 Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

18.2 Standards: Comply with the following:

A. Strikes for Mortise Locks and Latches: BHMA A156.13

B. Strikes for Bored Locks and Latches: BHMA A156.2

C. Strikes for Auxiliary Deadlocks: BHMA A156.36

D. Dustproof Strikes: BHMA A156.16

19. CONVENTIONAL EXIT DEVICES

19.1 General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

19.1.1 Exit devices shall have a five-year warranty.

19.1.2 At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

19.1.3 Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer’s catalog and template book for specific requirements.

19.1.4 Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

19.1.5 Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

19.1.6 Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

A. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.

B. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

19.1.7 Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.

19.1.8 Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.

19.1.9 Dummy Push Bar: Nonfunctioning push bar matching functional push bar.

19.1.10 Rail Sizing: Provide exit device rails factory sized for proper door width application.

19.1.11 Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

19.2 Conventional Push Rail Exit Devices (Heavy Duty)
ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

19.2.1 Provide exit devices with functions and features as follows:

A. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.

C. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.

D. No catch points: addition of applied deflectors or other added components are not allowed.

E. No visible plastic.

F. Heavy duty end caps with flush and overlapping options made of stainless steel, brass, or bronze with architectural finishes.

G. Constructed of all stainless steel.

H. Stainless steel pullman type latch with deadlock feature.

I. Narrow or wide style exterior trim as specified in the hardware sets.

J. Center case adjustability on concealed vertical rod exit devices; single operation with hex key individually adjusts top or bottom latches. No retainer screws or clips required to maintain adjustment.

K. Ten-year limited warranty for mechanical features.

19.2.2 Electromechanical exit devices shall have the following functions and features:

A. Universal Molex plug-in connectors that have standardized color-coded wiring and are field configurable in fail safe or fail secure and operate from 12vdc to 24vdc regulated.

B. Wire routing for all non-access control electromechanical functions and EcoFlex trim to be contained within the carrier of the device eliminating the need for cavities in doors to be drilled. Include a protective film so that wires don't get damaged if the rail needs to be removed.

C. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.

D. Options to be available for request-to-exit or enter signaling, latchbolt and touchbar monitoring.

. Field configurable electrified trim to fail-safe or fail-secure that operates from 12-24VDC.

19.2.3 Manufacturers:

A. Corbin Russwin Hardware (RU) - PED4000 / PED5000 Series

B. Sargent Manufacturing (SA) - PE80 Series

19.3 Multi-Point Exit Devices (Storm Shelter Openings)
ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices specifically engineered for tornado or hurricane resistant storm shelter openings. Listed manufacturers shall meet all functions and features as specified herein.

19.3.1 Provide exit devices with functions and features as follows:

A. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.

B. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.

C. Meets UL Certification Directory ZHLL.R21744 for products used in windstorm rated assemblies.

E. Meets FEMA P-361 (2020) and ICC 500 (2020) with respect to impact and pressure testing. Minimum missile impact speeds vary with the design wind speed desired for a particular product.

F. No catch points: addition of applied deflectors or other added components are not allowed.

G. No visible plastic.

H. Concealed hex key dogging with an active or passive dogging indicator where specified that shows visible indication of secured state.

I. Chassis indicators as specified that show secured state of exterior trim.

J. Heavy duty end caps with flush and overlapping options made of stainless steel, brass, or bronze with architectural finishes.

K. Constructed of all stainless steel.

L. Stainless steel pullman type latch with deadlock feature.

M. Narrow or wide style exterior trim as specified in the hardware sets.

N. Center case adjustability on concealed vertical rod exit devices; single operation with hex key individually adjusts top or bottom latches. No retainer screws or clips required to maintain adjustment.

M. Ten-year limited warranty for mechanical features.

19.3.2 Manufacturers:

A. Corbin Russwin Hardware (RU) - FE PE5400S Series

B. Sargent Manufacturing (SA) - FM PE8700 Series

19.4 Steel Removable Mullions

ANSI/BHMA A156.3 steel removable mullions with options for fire rating, locking, through-wire electrification and hurricane compliance as specified.

19.4.1 Provide mullions with functions and features as follows:

A. Provide keyed removable feature where specified in the Hardware Sets.

B. Provide stabilizers and mounting brackets as required.

19.4.2 Manufacturers

Same as exit device manufacturer.

20. SURFACE DOOR CLOSERS

20.1 All door closers specified herein shall meet or exceed the following criteria:

20.1.1 General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.

20.1.2 Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

20.1.3 Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.

20.1.4 Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

20.1.5 Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

20.1.6 Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

20.1.7 Storm Shelter Compliance: Door closers to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate storm shelter products that have been independently third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

20.2 Door Closers, Surface Mounted (Large Body Cast Iron)
ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.
20.2.1 Large body cast iron surface mounted door closers shall have a 30-year warranty.

20.2.2 Manufacturers
A. Corbin Russwin Hardware (RU) - DC8000 Series
B. Norton Rixson (NO) - 9500 Series
C. Sargent Manufacturing (SA) - 281 Series

20.3 Door Closers, Surface Mounted (Cam Action)
ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, high efficiency door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be of the cam and roller design, one piece cast aluminum silicon alloy body with adjustable backcheck and independently controlled valves for closing sweep and latch speed.
1. Manufacturers:
A. Corbin Russwin (RU) - DC5000 Series
B. Norton Rixson (NO) - 2800ST Series
C. Sargent Manufacturing (SA) - 422 Series

21. ELECTROHYDRAULIC DOOR OPERATORS

21.1 Electrohydraulic Door Operators (High Traffic): Provide ANSI/BHMA A156.19 Certified Products Directory (CPD) listed low energy operators that meet ANSI/BHMA A156.4 requirements and are UL listed for use on fire rated doors and UL10C certified that comply with requirements for the Americans with Disabilities Act (ADA). Operators shall be verified by GreenCircle to offer energy savings of 19% when compared to similar products to accommodate openings up 250 pounds and 48” wide. Provide accessories such as custom templates, special mounting brackets, spacers and drop plates as needed for proper installation. Operators shall accommodate openings up to 200 pounds and 48” wide. Listed manufacturers shall meet all functions and features as specified herein.

21.1.1 Provide operators with features as follows:
A. Non-handed with push and pull side mounting.

B. Operates as mechanical surface closer during close cycles, when door is opened manually or if power is off.

C. Activation by push button, hands-free or radio frequency devices.

D. On board electronics to collect usage and cycle count data to facilitate preventative maintenance/diagnostics.

E. Two-year limited warranty.

F. Wi-Fi interface where the operator is a secure, password protected WiFi hot spot with no connection to building's IT required.
1) Simple setup with no app required.
2) View status and make adjustments without removing the cover.
3) Built-in logic to support single use restroom applications with no external relay boards, logic modules, position switches required.

G. Mounting backplate to simplify and speed up installation.

21.2 Operators shall have the following functionality:

21.2.1 Adjustable Hold Open: Amount of time a door will stay in the full open position after an activation.

21.2.2 Blow Open for Smoke Ventilation: Door opens when signal is received from alarm system allowing air or smoke to flow through opening. Door will stay open until signal from alarm system is stopped.

21.2.3 Infinite Hold Open: Door will hold open at set position until power is turned off.

21.2.4 Obstruction Detection: Door closes if it hits an obstruction while opening; door will reverse to open position if it hits an obstruction while closing. Door will stop once it hits an obstruction and will rest against the obstruction until removed.

21.2.5 Open Delay: Delays operator opening for locking hardware.

21.2.6 Overload Safety Shut-Off: After two minutes of receiving a door activation signal, inverter times out and door closes to prevent motor/inverter damage.

21.2.7 Presence Detector Input: Input for external sensor to detect presence at door open or close position only.

21.2.8 Push & Go: As the door is manually opened, the operator "senses" movement and opens door to the full-open position.

21.2.9 Selector Mode Switch: Off disables the signal inputs unless Blow Open is activated, on activates the signal inputs, hold open activates the unit (unless Blow Closed is activated) to the hold open position.

21.2.10 Vestibule Delay: When the wall switch is pressed, first door in vestibule will open. Second door will open once vestibule door delay has expired. Delay is adjustable.

3. Manufacturers
   A. Norton Rixson (NO) - 6000 Series

22. SURFACE MOUNTED DOOR CLOSERS

Electromagnetic Door Holders

ANSI A156.15, Grade 1 electromagnetic door holder/releases with a minimum 25 to 40 pounds holding power and fail-safe operation; power failure releases door to close.

22.1 Manufacturers
- A. Norton Rixson (NO) - 900 Series
- B. Sargent Manufacturing (SA) - 1560 Series

23. ARCHITECTURAL TRIM AND ACCESSORIES

Door, Frame and Wall Protective Trim

ANSI/BHMA A156.6, protective products as specified in the hardware sets. Door protection plates shall be not more than 2" less than door width on stop side and 1 inch less door width on the pull side or on stop side of pairs of doors. Listed manufacturers shall meet all functions and features as specified herein.

23.1 Meets ADA requirements for smooth bottom door surfaces.

23.2 UL Classified options for use on fire-rated doors up to 3 hours.

23.3 Fabricated from stainless steel, brass, bronze, aluminum, or high-impact plastic.

23.4 Available in a variety of sizes, finishes, and profiles to suit aesthetic and functional requirements.

23.5 Designed to protect doors, frames, and adjacent walls from damage due to impact, abrasion, or traffic.

23.6 Fasteners included; adhesive-backed options available for select models.

23.7 Ten-year limited warranty.

23.8 Manufacturers
- A. Burns Manufacturing (BU)
- B. Hager Companies (HA)
- C. Hiawatha, Inc. (HI)
- D. Rockwood (RO).

24. DOOR STOPS AND HOLDERS

24.1 Door Stops and Bumpers

ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

24.1.1 Manufacturers:

A. Burns Manufacturing (BU)

B. Hager Companies (HA)

C. Hiawatha, Inc. (HI)

D. Rockwood (RO)

24.2 Overhead Door Stops and Holders

ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

24.2.1 Manufacturers

A. Norton Rixson (NO)

B. Rockwood (RO)

C. Sargent Manufacturing (SA)

25. ARCHITECTURAL SEALS

25.1 General

Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

25.2 Smoke Labeled Gasketing

Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

25.2.1 Provide smoke labeled perimeter gasketing at all smoke labeled openings.

25.3 Fire Labeled Gasketing

Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

25.2.2 Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.

25.4 Sound-Rated Gasketing

Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

25.5 Replaceable Seal Strips

Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

25.6 Hurricane and Storm Shelter Compliance
Devices to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or storm shelter products that have been independently third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

25.7 Manufacturers
A. National Guard Products (NG)
B. Pemko (PE)
C. Reese Enterprises, Inc. (RE)

26. ELECTRONIC ACCESSORIES

26.1 Door Position Switches
Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.

26.1.1 Manufacturers
A. Alarm Controls (AK) - CP1-1026 Series
B. Sargent Manufacturing (SA) - 3280 Series
C. Securitron (SU) - DPS Series

26.2 Switching Power Supplies
Provide the least number of power supplies at the appropriate amperage level sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.

26.2.1 Power supplies shall meet all functions and features as specified herein.
A. UL listed dual voltage 12 or 24 VDC field selectable continuous output.
B. Tolerates brownout or overvoltage input ± 15% of nominal voltage.
C. Thermal shutdown protection with auto restart.
D. Circuit breaker protection against overcurrent and reverse battery faults.
E. Integrated battery charging circuit to prevent overvoltage on locking devices.
F. Available with a single relay fire trigger or individually triggered relayed outputs.
G. Monitoring options as specified.

26.2.2 Manufacturers
a. Life Safety Power (LP)
b. Securitron (SU) - AQD Series

27. FABRICATION

Fasteners

Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

28. FINISHES

28.1 Standard

Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

28.2 Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.

28.3 Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

29. EXAMINATION

29.1 Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

29.2 Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

30. PREPARATION

30.1 Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

30.2 Wood Doors: Comply with ANSI/DHI A115-W series.

31. INSTALLATION

31.1 Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

31.1.1 Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

31.2 Mounting Heights

Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

31.2.1 Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."

31.2.2 DHI TDH-007-20: Installation Guide for Doors and Hardware.

31.2.3 Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."

31.2.4 Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

31.3 Retrofitting

Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

31.4 Push Plates and Door Pulls

When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.

31.5 Thresholds

Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

31.6 Storage

Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

32. FIELD QUALITY CONTROL

32.1 Field Inspection (Punch Report)

Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

32.1.1 Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

32.2 Maintenance manual must be provided for tornado/hurricane storm shelter impact protective systems.

33. ADJUSTING

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.

34. CLEANING AND PROTECTION

34.1 Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

34.2 Clean adjacent surfaces soiled by door hardware installation.

34.3 Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

35. DEMONSTRATION

Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

36. DOOR HARDWARE SETS

36.1 The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should 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 and functionality.

A. Quantities listed are for each pair of doors, or for each single door.

B. The supplier is responsible for handing and sizing all products.

C. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

36.2 Manufacturer’s Abbreviations:

A. MK – McKinney
B. PE – Pemko
C. MR – Markar
D. SU – Securitron
E. RO – Rockwood
F. SA – SARGENT
G. NO – Norton Rixson
H. LU – Lund Equipment Co.

HARDWARE SETS

Set: 1.0
Doors: R100a
Description: Exterior

1	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
1	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Rim Exit Device, Storeroom	DG1 16 18 55 56 64 PE8804 862	US10BE	SA	⚡
2	Core	DG1 6300 GMK	US4	SA	
1	Concealed Overhead Holder/Stop	6 Series	613E	NO	
1	Surface Closer	281 P10	US10BE	SA	
1	Drop Plate	281D	US10BE	SA	
1	Kit	581-2	US10BE	SA	
1	Door Stop	462	US2C	RO	
1	Sweep	345DNB x Door Width		PE	
1	Threshold	278x292AFGPK x Opening Width		PE	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡
1	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD1 x hardware requirements		SU	⚡

Notes: Card reader furnished by Owner.
Weatherstripping furnished by Aluminum Door Supplier.

Operation: This door will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 2.0
Doors: R100b
Description: Secure Check-In

1	Continuous Hinge	CFMHD1 PT x Door Height		PE	
1	Electric Power Transfer	EL-CEPT	630	SU	⚡
1	Rim Exit Device, Storeroom	DG1 DELR PE8804 862	US32D	SA	
2	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	TB 281 CPS	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Gasketing	S773BL (Head & Jambs)		PE	
1	Door Sweep	315CN x Door Width		PE	
1	Threshold	2715A x Opening Width		PE	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡
1	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD2 X hardware requirements		SU	⚡

Notes: Card reader on both sides of the door furnished by Owner.

Operation: This door will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. The push rail will also have a delayed egress built into the push rail of the exit device. When the push rail is pushed the alarm will sound and you will have seconds until the device is released. If the fire alarm goes off the doors will not have any delay and the doors will be unlocked and you can exit. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 3.0
Doors: R157
Description: Exterior

1	Continuous Hinge	CFMHD1 PT x Door Height		PE	
1	Electric Power Transfer	EL-CEPT	630	SU	⚡
1	Rim Exit Device, Storeroom	DG1 16 18 55 56 64 PE8804 PSB	US32D	SA	⚡
2	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	TB 281 CPS	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Door Stop	462	US2C	RO	
1	Gasketing	S773BL (Head & Jambs)		PE	
1	Rain Guard	346C x Overall Frame Width		PE	
1	Sweep	345ANB x Door Width		PE	
1	Threshold	279x292AFGPK x Opening Width		PE	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡
1	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD1 x hardware requirements		SU	⚡

Notes: Card reader furnished by Owner.

Operation: This door will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 4.0
Doors: F115a, ST201a, ST301a
Description: Exterior

1	Continuous Hinge	DFMSLI-HD1 or DFMSLF-HD1		PE	
1	Rim Exit Device, Exit Only	LD PE8810 EO	US10BE	SA	
1	Concealed Overhead Holder/Stop	6 Series	613E	NO	
1	Surface Closer	281 P10	US10BE	SA	
1	Drop Plate	281D	US10BE	SA	
1	Kit	581-2	US10BE	SA	
1	Door Stop	462	US2C	RO	
1	Sweep	345DNB x Door Width		PE	
1	Threshold	278x292AFGPK x Opening Width		PE	
1	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡

Notes: No outside trim.

Set: 5.0
Doors: R137b, R177b
Description: Exterior

1	Continuous Hinge	CFMHD1 PT x Door Height		PE	
1	Electric Power Transfer	EL-CEPT	630	SU	⚡
1	Rim Exit Device, Storeroom	DG1 16 18 55 56 64 PE8804 PSB	US32D	SA	⚡
2	Core	DG1 6300 GMK	US15	SA	
1	Surface Overhead Stop	590S Series	EN	SA	
1	Surface Closer	TB 281 PD10	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Door Stop	462	US2C	RO	
1	Gasketing	S773BL (Head & Jambs)		PE	
1	Rain Guard	346C x Overall Frame Width		PE	
1	Sweep	345ANB x Door Width		PE	
1	Threshold	279x292AFGPK x Opening Width		PE	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡
1	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD1 x hardware requirements		SU	⚡

Notes: Card reader furnished by Owner.

Operation: This door will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 6.0
Doors: R137a, R157a, R177a
Description: Vestibule

1	Continuous Hinge	CFMHD1 x Door Height		PE
1	Rim Exit Device, Passage	PE8815 WENJ	US32D	SA
1	Door Closer	TB 281 P10	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
1	Gasketing	S773BL (Head & Jambs)		PE
1	Door Sweep	315CN x Door Width		PE
1	Threshold	2715A x Opening Width		PE

Set: 7.0
Doors: B137a
Description: Exterior

2	Continuous Hinge	CFMHD1 x Door Height		PE
1	Mullion	L980S x Height Required	PC	SA
1	Rim Exit Device, Storeroom	64 PE8804 WENJ	US32D	SA
1	Rim Exit Device, Exit Only	PE8810 EO	US32D	SA
1	Mortise Cylinder	DG1 64 42	US32D	SA
2	Core	DG1 6300 GMK	US15	SA
2	Surface Overhead Stop	590S Series	EN	SA
2	Surface Closer	TB 281 PD10	EN	SA
2	Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D	RO
2	Door Stop	462	US2C	RO
2	Astragal	305CN x Door Height		PE
1	Gasketing	S773BL (Head & Jambs)		PE
1	Rain Guard	346C x Overall Frame Width		PE
1	Gasketing	5110BL x Mullion Height		PE
2	Sweep	345ANB x Door Width		PE
1	Threshold	279x292AFGPK x Opening Width		PE
2	Position Switch	DPS-M-BK or DPS-W-BK		SU

Set: 8.0
Doors: B136a
Description: Exterior

2	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
2	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Mullion	L980S x Height Required	PC	SA	
1	Shim Kit	601		SA	
1	Rim Exit Device, Storeroom	DG1 16 18 55 56 64 PE8804 862	US10BE	SA	⚡
1	Rim Exit Device, Dummy	DG1 16 18 55 64 PE8810 862	US10BE	SA	
1	Mortise Cylinder	DG1 64 42	US10BE	SA	
5	Core	DG1 6300 GMK	US4	SA	
2	Concealed Overhead Holder/Stop	6 Series	613E	NO	
2	Surface Closer	281 P10	US10BE	SA	
2	Drop Plate	281D	US10BE	SA	
2	Kit	581-2	US10BE	SA	
2	Door Stop	462	US2C	RO	
2	Astragal	305DN x Door Height		PE	
1	Gasketing	5110BL x Mullion Height		PE	
2	Sweep	345DNB x Door Width		PE	
1	Threshold	278x292AFGPK x Opening Width		PE	
2	ElectroLynx Harness	QC-C2500P		MK	⚡
2	ElectroLynx Harness	QC-C Length Required		MK	⚡
2	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD1 x hardware requirements		SU	⚡

Notes: Card reader furnished by Owner.
Weatherstripping furnished by Aluminum Door Supplier.

Operation: The doors will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 9.0
Doors: B100a
Description: Exterior

2	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
2	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Mullion	L980S x Height Required	PC	SA	
1	Shim Kit	601		SA	
1	Rim Exit Device, Storeroom	DG1 16 18 55 56 64 PE8804 Less Pull	US10BE	SA	⚡
1	Rim Exit Device, Exit Only	DG1 16 18 55 64 PE8810 EO	US10BE	SA	
1	Mortise Cylinder	DG1 64 42	US10BE	SA	
4	Core	DG1 6300 GMK	US4	SA	
2	Door Pull	RM7511-24 Mtg-Type 12HD	10BE	RO	
2	Concealed Overhead Holder/Stop	6 Series	613E	NO	
1	Surface Closer	281 P10	US10BE	SA	
1	Drop Plate	281D	US10BE	SA	
1	Kit	581-2	US10BE	SA	
1	Automatic Opener	6021	690	NO	⚡
2	Door Stop	462	US2C	RO	
1	Astragal	305DN x Door Height		PE	
1	Gasketing	5110BL x Mullion Height		PE	
2	Sweep	345DNB x Door Width		PE	
1	Threshold	278x292AFGPK x Opening Width		PE	
2	ElectroLynx Harness	QC-C2500P		MK	⚡
2	ElectroLynx Harness	QC-C Length Required		MK	⚡
2	Door Switch	505		NO	⚡
2	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD1 x hardware requirements		SU	⚡

Notes: Card reader furnished by Owner.
Weatherstripping furnished by Aluminum Door Supplier.

Operation: The doors will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 10.0
Doors: B100b
Description: Vestibule

2	Continuous Hinge	DFMSLI-HD1 or DFMSLF-HD1		PE	
2	Push Bar	PE8893	US10BE	SA	
2	Door Pull	RM7511-24 Mtg-Type 12HD	10BE	RO	
1	Surface Closer	281 CPS	US10BE	SA	
1	Drop Plate	281D	US10BE	SA	
1	Kit	581-2	US10BE	SA	
1	Automatic Opener	6021	690	NO	⚡
2	Astragal	305DN x Door Height		PE	
2	Sweep	315DN x Door Width		PE	
1	Threshold	2715A x Opening Width		PE	
2	Door Switch	505		NO	⚡

Notes: Weatherstripping furnished by Aluminum Door Supplier.

Set: 11.0
Doors: B134a
Description: Exterior

2	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
2	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Mullion	L980S x Height Required	PC	SA	
1	Shim Kit	601		SA	
1	Rim Exit Device, Storeroom	DG1 DELR 64 PE8804 862	US10BE	SA	
1	Rim Exit Device, Dummy	DG1 59 64 PE8810 862	US10BE	SA	⚡
1	Mortise Cylinder	DG1 64 42	US10BE	SA	
4	Core	DG1 6300 GMK	US4	SA	
2	Concealed Overhead Holder/Stop	6 Series	613E	NO	
2	Surface Closer	281 P10	US10BE	SA	
2	Drop Plate	281D	US10BE	SA	
2	Kit	581-2	US10BE	SA	
2	Door Stop	462	US2C	RO	
2	Astragal	305DN x Door Height		PE	
1	Gasketing	5110BL x Mullion Height		PE	
2	Sweep	345DNB x Door Width		PE	
1	Threshold	278x292AFGPK x Opening Width		PE	
2	ElectroLynx Harness	QC-C2500P		MK	⚡
2	ElectroLynx Harness	QC-C Length Required		MK	⚡
2	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD2 X hardware requirements		SU	⚡

Notes: Card reader on both sides of the door furnished by Owner.
Weatherstripping furnished by Aluminum Door Supplier.

Operation: The doors will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. When the push rail is pushed the alarm will sound and you will have seconds until the device is released. If the fire alarm goes off the doors will not be delayed and the doors will be unlocked and you can exit. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 12.0
Doors: B134b
Description: Exterior

2	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
2	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Mullion	L980S x Height Required	PC	SA	
1	Shim Kit	601		SA	
1	Fail Secure Exit Device	DG1 WR W55 WH 60 PE8876-24v WENJ	US10BE	SA	⚡
1	Rim Exit Device, Exit Only	W55 WH PE8810 EO	US10BE	SA	
1	Mortise Cylinder	DG1 64 42	US10BE	SA	
2	Core	DG1 6300 GMK	US4	SA	
2	Surface Closer	422 CTB2	US10BE	SA	
2	Astragal	305DN x Door Height		PE	
1	Gasketing	5110BL x Mullion Height		PE	
2	Sweep	315DN x Door Width		PE	
1	Threshold	1715A x Opening Width		PE	
2	ElectroLynx Harness	QC-C2500P		MK	⚡
2	ElectroLynx Harness	QC-C Length Required		MK	⚡
2	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD1 x hardware requirements		SU	⚡

Notes: Card reader furnished by Owner.
Weatherstripping furnished by Aluminum Door Supplier.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the exit device will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 13.0
Doors: B130b, R101a, R104a
Description: Serving Kitchen, Laundry (Rated)

2	Hinge, Full Mortise	T4A4786 or T4A3786 5" x 4-1/2"	US26D	MK	
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 5" x 4-1/2"	US26D	MK	⚡
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA	⚡
1	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	281 CPS	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Gasketing	S88BL (Head & Jambs)		PE	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 14.0
Doors: B130c, R101b
Description: Serving Kitchen

1	Core	DG1 6300 GMK	US15	SA
1	Rim Cylinder	DG1 64 34 or DG1 64 42 as required	US32D	SA

Notes: Balance of hardware furnished by Coiling Door Supplier.

Set: 15.0
Doors: B112A, B125a, R103a, R103b
Description: Janitor, Elev. Equipment (Rated)

2	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK	
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK	⚡
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA	⚡
1	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	281 O	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Wall Stop	406	US32D	RO	
1	Gasketing	S88BL (Head & Jambs)		PE	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.
Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 16.0
Doors: R105a
Description: Corridor

1	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
1	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Rim Exit Device, Storeroom	DG1 DELR 64 PE8804 WENJ	US10BE	SA	
2	Core	DG1 6300 GMK	US4	SA	
1	Surface Closer	281 CPS	US10BE	SA	
1	Drop Plate	281D	US10BE	SA	
1	Kit	581-2	US10BE	SA	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡
1	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD2 X hardware requirements		SU	⚡

Notes: Card reader on both sides of the door will be furnished by Owner.
Operation: This door will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. The push rail will also have a delayed egress built into the push rail of the exit device. When the push rail is pushed the alarm will sound and you will have seconds until the device is released. If the fire alarm goes off the doors will not be any delay and the doors will be unlocked and you can exit. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 17.0
Doors: H244a, R106a, R107a, R110a, R112a, R112b, R113a, R113b, R114a, R114b, R115a, R115b, R116a, R116b, R117a, R118b, R128a
Description: Storage, Time Away, Meeting

2	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK	
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK	⚡
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA	⚡
1	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	281 O	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Wall Stop	406	US32D	RO	
3	Silencer	608		RO	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.
Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 17.1
Doors: R118a
Description: Lead Office (Rated)

2	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK	
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK	⚡
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA	⚡
1	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	281 O	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Wall Stop	406	US32D	RO	
1	Gasketing	S88BL (Head & Jambs)		PE	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.
Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 18.0
Doors: R108a, R109a, R143a, R144a, R163a, R164a, R183a, R184a
Description: Restroom

2	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK	
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK	⚡
1	Elect. Mortise Lock	DG1 V21 EMB 64 IDP PHR NAC-82281-24v LNNJ	US26D	SA	⚡
1	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	281 O	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Wall Stop	406	US32D	RO	
1	Gasketing	S773BL (Head & Jambs)		PE	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Doors are normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the mortise lock will release and you can turn the lever and enter the space. When the door comes back closed the outside trim will relock. The inside trim will have a REX or request to exit switch built into the lock. The mortise lock body will also have a door position switch built into the lock body. You can always turn the inside lever and exit out of the space. When inside and you throw the dead bolt this locks out other credentials, giving privacy for those inside.

Set: 19.0
Doors: B113a, R120a
Description: Hallway

1	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
1	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US10BE	SA	⚡
1	Core	DG1 6300 GMK	US4	SA	
1	Surface Closer	281 P10	US10BE	SA	
1	Drop Plate	281D	US10BE	SA	
1	Wall Stop	406	10BE	RO	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 19.1
Doors: R119a
Description: Hallway

1	Continuous Hinge	CFMHD1 PT x Door Height		PE	
1	Electric Power Transfer	EL-CEPT	630	SU	⚡
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA	⚡
1	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	281 P10	EN	SA	
1	Kit	581-2	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Wall Stop	406	US32D	RO	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 20.0
Doors: B110a, F117a, R123a, R126a
Description: Video, Janitor, Storage

2	Hinge, Full Mortise	T4A4786 or T4A3786 NRP 4-1/2" x 4-1/2"	US26D	MK	
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK	⚡
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA	⚡
1	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	281 CPS	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
3	Silencer	608		RO	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 20.1
Doors: B129a
Description: Day Room

1	Continuous Hinge	CFMHD1 PT x Door Height		PE
1	Electric Power Transfer	EL-CEPT	630	SU
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Door Closer	TB 281 CPS	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	ElectroLynx Harness	QC-C2500P		MK
1	ElectroLynx Harness	QC-C Length Required		MK

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 21.0
Doors: H207a, R124a
Description: Video, Server, Storage

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	DG1 64 8204 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Wall Stop	406	US32D	RO
3	Silencer	608		RO

Set: 22.0
Doors: B106a, B107a, B116a, F110a, R125a, R127a
Description: Restroom

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Privacy Lock	V21 EMB 8265 LNNJ	US26D	SA
1	Wall Stop	406	US32D	RO
1	Gasketing	S773BL (Head & Jambs)		PE

Set: 23.0
Doors: R130a, R150a, R170a
Description: Commons (Rated)

3	Hinge, Full Mortise	T4A4786 or T4A3786 NRP 5" x 4-1/2"	US26D	MK
1	Electric Power Transfer	EL-CEPT	630	SU
1	Rim Exit Device, Storeroom	DG1 12 55 56 64 PE8804 WENJ	US32D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Door Closer	281 CPS	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Gasketing	S88BL (Head & Jambs)		PE
1	ElectroLynx Harness	QC-C2500P		MK
1	ElectroLynx Harness	QC-C Length Required		MK
1	Position Switch	DPS-M-BK or DPS-W-BK		SU
1	Power Supply	AQD1 x hardware requirements		SU

Notes: Card reader furnished by Owner.

Operation: This door will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 24.0
Doors: R132a, R133a, R134a, R135a, R136a, R139a, R140a, R141a, R152a, R153a, R154a, R155a, R156a, R159a, R160a, R161a, R172a, R173a, R174a, R175a, R176a, R179a, R180a, R181a
Description: Dorm (Rated)

3	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Dormitory/Exit Lock	60 8225 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Door Closer	281 P10	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
1	Gasketing	S773BL (Head & Jambs)		PE
1	Door Bottom	STC411APK x Door Width		PE

Set: 25.0
Doors: B108a, B130a, B131a, B131b, R138a, R158a, R178a
Description: Storage, Serving Kitchen (Rated)

2	Hinge, Full Mortise	T4A4786 or T4A3786 5" x 4-1/2"	US26D	MK
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 5" x 4-1/2"	US26D	MK
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Door Closer	281 O	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
1	Gasketing	S88BL (Head & Jambs)		PE
1	ElectroLynx Harness	QC-C2500P		MK
1	ElectroLynx Harness	QC-C Length Required		MK

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 26.0
Doors: B118a, H238a, R142a, R162a, R182a
Description: Janitor, Lab (Rated)

2	Hinge, Full Mortise	T4A4786 or T4A3786 NRP 4-1/2" x 4-1/2"	US26D	MK
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Door Closer	281 P10	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
1	Gasketing	S88BL (Head & Jambs)		PE
1	ElectroLynx Harness	QC-C2500P		MK
1	ElectroLynx Harness	QC-C Length Required		MK

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 27.0
Doors: F101a, F102a, F104a, F105a, F106a, F107a, F108a, F113a, F114a, F116a, H200a, H201a, H202a, H204a, H205a, H206a, H208a, H211a, H212a, H214a, H215a, H216a, H217a, H219a, H220a, H223a, H225a, H226a, H227a, H228a, H229a, H242a, H243a, H248a, H250a, H257a, H258a, H259a, H262a, H263a, H265a, H266a, H267a, H269a, H270a, H271a, H273a, H274a
Description: Office

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Office/Entry Lock	DG1 60 8205 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Wall Stop	406	US32D	RO
3	Silencer	608		RO

Set: 28.0
Doors: H203a, H272a
Description: Stairs (Rated)

3	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Rim Exit Device, Passage	12 PE8815 WENJ	US32D	SA
1	Door Closer	281 CPS	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Gasketing	S88BL (Head & Jambs)		PE

Set: 29.0
Doors: H209a, H233a, H256a
Description: Conference, Break, Meeting

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Passage Latch	8215 LNNJ	US26D	SA
1	Wall Stop	406	US32D	RO
3	Silencer	608		RO

Set: 30.0
Doors: H213a
Description: Meeting

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Passage Latch	8215 LNNJ	US26D	SA
1	Surface Overhead Holder/Stop	9 Series	652	NO
3	Silencer	608		RO

Set: 31.0
Doors: H222a
Description: IT Closet (Rated)

3	Hinge, Full Mortise	T4A4786 or T4A3786 5" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	DG1 64 8204 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Door Closer	281 CPS	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Gasketing	S88BL (Head & Jambs)		PE

Set: 32.0
Doors: B148a, H230a, H245a, H255a, H275a
Description: Storage (Rated)

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	DG1 64 8204 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Door Closer	281 O	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
1	Gasketing	S88BL (Head & Jambs)		PE

Set: 33.0
Doors: H232a
Description: Storage (Rated)

6	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Dust Proof Strike	570	US26D	RO
1	Set Auto Flush Bolts	2842 or 2942 as required	US26D	RO
1	Classroom Lock	DG1 60 8237 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Coordinator	2600 x length required	Black	RO
2	Door Closer	281 O	EN	SA
2	Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D	RO
2	Wall Stop	406	US32D	RO
2	Astragal	18041CNB x Door Height		PE
1	Gasketing	S88BL (Head & Jambs)		PE

Set: 34.0
Doors: H237a, H239a
Description: Men, Women

3	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Push Plate	70E	US32D	RO
1	Pull Plate	BF 107x70C	US32D	RO
1	Door Closer	281 P10	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
3	Silencer	608		RO

Set: 35.0
Doors: H251a
Description: Storage

3	Hinge, Full Mortise	TA2714 NRP-STD 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	DG1 64 8204 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Surface Overhead Holder/Stop	9 Series	652	NO
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
3	Silencer	608		RO

Set: 36.0
Doors: B109a, B123b, B145b
Description: Hallway

2	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
2	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Concealed Vert Rod Exit, Dummy	55 ADPE8410 862	US10BE	SA	
1	Con. Vert Rod Exit, Nightlatch	DG1 55 56 64 ADPE8410 P106 x 862	US10BE	SA	⚡
1	Core	DG1 6300 GMK	US4	SA	
2	Surface Closer	281 CPS	US10BE	SA	
2	Drop Plate	281D	US10BE	SA	
2	Kit	581-2	US10BE	SA	
2	Astragal	305DN x Door Height		PE	
2	ElectroLynx Harness	QC-C2500P		MK	⚡
2	ElectroLynx Harness	QC-C Length Required		MK	⚡
2	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD1 x hardware requirements		SU	⚡

Notes: Card reader furnished by Owner.
Operation: The doors will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 37.0
Doors: B114a
Description: Stairs (Rated)

3	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Rim Exit Device, Passage	12 PE8815 WENJ	US32D	SA
1	Door Closer	281 O	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
1	Gasketing	S88BL (Head & Jambs)		PE

Set: 38.0
Doors: B117a
Description: Storage (Rated)

3	Hinge, Full Mortise	TA2714 NRP-STD 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	DG1 64 8204 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Door Closer	281 CPS	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Gasketing	S88BL (Head & Jambs)		PE

Set: 39.0
Doors: H240a, H247a
Description: Mechanical, Storage (Rated)

6	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Dust Proof Strike	570	US26D	RO
1	Set Auto Flush Bolts	2842 or 2942 as required	US26D	RO
1	Storeroom/Closet Lock	DG1 64 8204 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Coordinator	2600 x length required	Black	RO
2	Door Closer	281 O	EN	SA
2	Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D	RO
2	Wall Stop	406	US32D	RO
2	Astragal	18041CNB x Door Height		PE
1	Gasketing	S88BL (Head & Jambs)		PE

Set: 40.0
Doors: B119a, B121a
Description: Conference

3	Hinge, Full Mortise	T4A4786 or T4A3786 NRP 4-1/2" x 4-1/2"	US26D	MK
1	Rim Exit Device	DG1 LD 49 60 PE8816 WENJ	US32D	SA
2	Core	DG1 6300 GMK	US15	SA
1	Door Closer	281 P10	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
3	Silencer	608		RO

Set: 41.0
Doors: B120a, B122a
Description: Storage

6	Hinge, Full Mortise	TA2714 NRP-STD 4-1/2" x 4-1/2"	US26D	MK
2	Flush Bolt	555-12	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom/Closet Lock	DG1 64 8204 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
2	Surface Overhead Holder/Stop	9 Series	652	NO
2	Astragal	18041CNB x Door Height		PE
2	Silencer	608		RO

Set: 42.0
Doors: B123a, B135a
Description: Hallway

2	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
2	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Con. Vert Rod Exit, Nightlatch	DG1 DELR 60 ADPE8410 P106 x 862	US10BE	SA	
1	Concealed Vert Rod Exit, Dummy	DG1 59 ADPE8410 862	US10BE	SA	⚡
1	Core	DG1 6300 GMK	US4	SA	
2	Surface Closer	281 CPS	US10BE	SA	
2	Drop Plate	281D	US10BE	SA	
2	Kit	581-2	US10BE	SA	
2	Astragal	305DN x Door Height		PE	
2	ElectroLynx Harness	QC-C2500P		MK	⚡
2	ElectroLynx Harness	QC-C Length Required		MK	⚡
2	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD2 X hardware requirements		SU	⚡

Notes: Card reader on both sides of the doors furnished by the Owner.

Operation: The doors will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 43.0
Doors: B127a, B128a
Description: Classroom, Game Area

3	Hinge, Full Mortise	T4A4786 or T4A3786 NRP 4-1/2" x 4-1/2"	US26D	MK
1	Classroom Security Intruder Lock	DG1 60 8238 LNNJ	US26D	SA
2	Core	DG1 6300 GMK	US15	SA
1	Door Closer	281 CPS	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
3	Silencer	608		RO

Set: 44.0
Doors: B127b
Description: Classroom

3	Hinge, Full Mortise	TA2714 NRP-STD 4-1/2" x 4-1/2"	US26D	MK
1	Classroom Security Intruder Lock	DG1 60 8238 LNNJ	US26D	SA
2	Core	DG1 6300 GMK	US15	SA
1	Wall Stop	406	US32D	RO
3	Silencer	608		RO

Set: 45.0
Doors: B127c
Description: Classroom

2	Hinge, Full Mortise	T4A4786 or T4A3786 NRP 4-1/2" x 4-1/2"	US26D	MK
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA
1	Door Closer	281 P10	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
3	Silencer	608		RO
1	ElectroLynx Harness	QC-C2500P		MK
1	ElectroLynx Harness	QC-C Length Required		MK

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 46.0
Doors: B132a
Description: Classroom

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Classroom Security Intruder Lock	DG1 60 8238 LNNJ	US26D	SA
2	Core	DG1 6300 GMK	US15	SA
1	Concealed Overhead Holder/Stop	6 Series	630	NO

Set: 47.0
Doors: B137c
Description: Mechanical (Rated)

3	Hinge, Full Mortise	T4A4786 or T4A3786 NRP 5" x 4-1/2"	US26D	MK
1	Rim Exit Device, Storeroom	DG1 12 60 PE8804 WENJ	US32D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Door Closer	281 P10	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
1	Gasketing	S88BL (Head & Jambs)		PE

Set: 48.0
Doors: B140a, B140b
Description: Exterior (Shelter)

2	Continuous Hinge	HG305 x Door Height	630	MR
2	Surface Vert Rod Exit, Classroom	DG1 12 64 FMPE8713 WENJ	US32D	SA
2	Core	DG1 6300 GMK	US15	SA
2	Door Closer	TB 281 CPS	EN	SA
2	Latch Cover Kick Plate	BFLG1050 10" x 34"	US32D	RO
2	Astragal	305CN x Door Height		PE
1	Gasketing	S773BL (Head & Jambs)		PE
1	Rain Guard	346C x Overall Frame Width		PE
2	Sweep	345ANB x Door Width		PE
1	Threshold	1715A x Opening Width		PE
2	Position Switch	DPS-M-BK or DPS-W-BK		SU

Notes: Cutout threshold so bottom strike can be mounted directly to the concrete floor and not to the threshold.
Doors will have a 5/8" undercut.

Set: 49.0
Doors: B141a, B145a
Description: Gym (Rated), (Shelter)

2	Continuous Hinge	HG305 x Door Height	630	MR
2	Surface Vert Rod Exit, Classroom	DG1 12 64 FMPE8713 WENJ	US32D	SA
2	Core	DG1 6300 GMK	US15	SA
2	Door Closer	TB 281 P10	EN	SA
2	Latch Cover Kick Plate	BFLG1050 10" x 34"	US32D	RO
2	Electromagnetic Holder	998M	689	NO
2	Astragal	305CN x Door Height		PE
1	Gasketing	S773BL (Head & Jambs)		PE
1	Threshold	1715A x Opening Width		PE

Notes: Cutout threshold so bottom strike can be mounted directly to the concrete floor and not to the threshold.
Doors will have a 5/8" undercut.

Set: 50.0
Doors: B141b
Description: Gym

1	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
1	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Rim Exit Device, Storeroom	DG1 16 18 55 56 64 PE8804 862	US10BE	SA	⚡
2	Core	DG1 6300 GMK	US4	SA	
1	Surface Closer	281 P10	US10BE	SA	
1	Drop Plate	281D	US10BE	SA	
1	Wall Stop	406	10BE	RO	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡
1	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD1 x hardware requirements		SU	⚡

Notes: Card reader furnished by Owner.

Operation: This door will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 51.0
Doors: B143a, B144a
Description: Restroom

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Privacy Lock	V21 EMB 8265 LNNJ	US26D	SA
1	Door Closer	281 O	EN	SA
1	Kick Plate	K1050 34" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	406	US32D	RO
1	Gasketing	S773BL (Head & Jambs)		PE

Set: 52.0
Doors: B142a
Description: Storage (Rated)

6	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Dust Proof Strike	570	US26D	RO
1	Set Auto Flush Bolts	2842 or 2942 as required	US26D	RO
1	Classroom Lock	DG1 60 8237 LNNJ	US26D	SA
1	Core	DG1 6300 GMK	US15	SA
1	Coordinator	2600 x length required	Black	RO
2	Door Closer	281 O	EN	SA
2	Kick Plate	K1050 F 34" x 1" LDW CSK BEV	US32D	RO
2	Wall Stop	406	US32D	RO
1	Gasketing	S88BL (Head & Jambs)		PE

Notes: Metal overlapping astragal furnished by Hollow Metal Door Supplier.

Set: 53.0
Doors: B190a
Description: Riser

2	Hinge, Full Mortise	T4A4786 or T4A3786 NRP 4-1/2" x 4-1/2"	US26D	MK	
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK	⚡
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA	⚡
1	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	281 P10	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Wall Stop	406	US32D	RO	
3	Silencer	608		RO	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 54.0
Doors: B191a
Description: Electric (Rated)

2	Hinge, Full Mortise	T4A4786 or T4A3786 NRP 4-1/2" x 4-1/2"	US26D	MK	
1	Hinge, Full Mortise	T4A4786 or T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK	⚡
1	Electrified Mortise Lock	DG1 64 IDP NAC-82271-24v LNNJ	US26D	SA	⚡
1	Core	DG1 6300 GMK	US15	SA	
1	Door Closer	281 CPS	EN	SA	
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO	
1	Gasketing	S88BL (Head & Jambs)		PE	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡

Notes: Card reader furnished by Owner.
Power furnished by Access Control Supplier.
Lock body will have a REX or request to exit switch and DPS.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the outside trim on the electrified lock will be released and you can turn the outside lever and open the door. When the door comes back closed the outside trim will relock. The inside lever will have a REX or request to exit switch built into the lock. You can always turn the inside lever and exit the space.

Set: 55.0
Doors: R111a
Description: Secure Check-In

1	Continuous Hinge	DFMSLF-HD1 PT or DFMSLI-HD1 PT		PE	
1	Electric Power Transfer	EL-CEPT	613E	SU	⚡
1	Rim Exit Device, Storeroom	DG1 16 18 55 56 64 PE8804 862	US10BE	SA	⚡
1	Core	DG1 6300 GMK	US4	SA	
1	Surface Closer	281 CPS	US10BE	SA	
1	Drop Plate	281D	US10BE	SA	
1	Kit	581-2	US10BE	SA	
1	ElectroLynx Harness	QC-C2500P		MK	⚡
1	ElectroLynx Harness	QC-C Length Required		MK	⚡
1	Position Switch	DPS-M-BK or DPS-W-BK		SU	⚡
1	Power Supply	AQD1 x hardware requirements		SU	⚡

Notes: Card reader furnished by Owner.

Operation: This door will normally be closed and locked. When a valid credential is presented to the wall mounted card reader the latch on the exit device will retract and allow the door to be pulled open. When the door comes back closed the latch will extend and the door will be relocked. There will be a REX or request to exit switch built into the push bar of the exit device. You can always exit out of the space by pushing the push rail on the exit device and leaving. The power supply listed in this hardware set will be used to power the electric latch retract on the exit device.

Set: 56.0
Doors: MISC
Description: Extra's for the project.

100	Key Blank	DG1	SA
4	Control Key	DG1	SA
1	ElectroLynx Harness	QC-C2500P	MK
1	ElectroLynx Harness	QC-C Length Required	MK
1	Key Cabinet	1203-A Gray Powder	LU

End of Section 087100

SECTION 093013

TILING

PART 1 – GENERAL

1. RELATED DOCUMENTS

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

2. SUMMARY

2.1 This Section includes the following:
Porcelain, ceramic and trim accessories for tile works shown on Drawings.

2.2 Related Sections
The following Sections contain requirements that relate to this Section:

2.2.1 Division 03 Section "Cast-in-Place Concrete" for monolithic slab finishes specified for tile substrates.

2.2.2 Division 09 Section "Gypsum Board" for drywall installed as part of gypsum wallboard systems.

3. SUBMITTALS

3.1 Product data for each type of product specified.

3.2 Samples for initial selection purposes in form of manufacturer's color charts consisting of actual tiles or sections of tile showing full range of colors, textures, and patterns available for each type and composition of tile indicated. Include samples of grout and accessories involving color selection.

3.3 Samples for verification purposes of each item listed below, prepared on samples of size and construction indicated, products involve color and texture variations, in sets showing full range of variations expected.

3.3.1 Each type and composition of tile and for each color and texture required, at least 12 inches square, mounted on plywood or hardboard backing and grouted.

3.3.2 Full-size units of each type of trim and accessory for each color required.

3.3.3 Metal edge strips in 6-inch lengths.

3.3.4 Stone threshold in 6-inch length and profile indicated on the Drawings.

4. QUALITY ASSURANCE

4.1 ANSI Standard for Ceramic Tile
Comply with ANSI A137.1 "American National Standard Specifications for Ceramic Tile" for types, compositions, and grades of tile
indicated.

A. Furnish tile complying with "Best Quality Grade" requirements unless otherwise indicated.

4.2 ANSI Standard for Tile Installation Materials
Comply with ANSI standard referenced with products and materials indicated for setting and grouting.

4.3 Single-Source Responsibility for Tile
Obtain each color, grade, finish, type, composition, and variety of tile from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work.

4.4 Single-Source Responsibility for Setting and Grouting Materials
Obtain ingredients of a uniform quality from one (1) manufacturer for each cementitious and admixture component and from one (1) source or producer for each aggregate.

4.5 Installer Qualifications
Engage an experienced Installer who has successfully completed tile installations similar in material, design, and extent to that indicated for Project.

4.6 Field-Constructed Mock-Up
Before installing tile, erect mock-ups for each form of construction and finish required to verify selections made under sample submittals and to demonstrate aesthetic effects as well as qualities of materials and execution. Build mock-ups to comply with the following requirements, using materials indicated for final unit of Work.

4.6.1 Locate mock-ups on site in location and size indicated or, if not indicated, directed by Architect.

4.6.2 Demonstrate the proposed range of aesthetic effects and workmanship.

4.6.3 Obtain Architect's acceptance of mock-ups before start of final unit of Work.

4.6.4 Retain and maintain mock-ups during construction in undisturbed condition as a standard for judging completed unit of Work.

A. Accepted mock-ups in undisturbed condition at time of Substantial Completion may become part of completed unit of Work.

5. DELIVERY, STORAGE, AND HANDLING

5.1 Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirement of ANSI A137.1 for labeling sealed tile packages.

5.2 Prevent damage or contamination to materials by water, freezing, foreign matter, and other causes.

6. PROJECT CONDITIONS

6.1 Maintain environmental conditions and protect work during and after installation to comply with referenced standards and manufacturer's printed recommendations.

6.2 Vent temporary heaters to exterior to prevent damage to tile work from carbon dioxide buildup.

6.3 Maintain temperatures at 50 degrees F or more in tiled areas during installation and for seven (7) days after completion, unless higher temperatures are required by referenced installation standard or manufacturer's instructions.

PART 2 – PRODUCTS

7. MATERIALS

Subject to compliance with requirements, provide products as follows:

7.1 Mortars and Grouts as noted on Drawings, or approved equal.

7.2 Wall tile including trim pieces, as noted on Drawings.

7.3 Tiled wall base trim tiles, as noted on Drawings.

7.4 Floor porcelain tile and trims, as noted on Drawings.

7.5 Setting materials to support porcelain and ceramic tile installation.

7.6 Crack isolation membrane and waterproof membrane, as noted on Drawings.

7.7 Colors, Textures, and Patterns

Where manufacturer's standard products are indicated for tile, grout, and other products requiring selection of colors, surface textures, patterns, and other appearance characteristics, provide specific products or materials complying with the following requirements:

A. Provide selections made by Architect from manufacturer's full range of colors, textures, and patterns for products of type indicated.

7.8 Trim Units

Provide tile trim units to match characteristics of adjoining flat tile and to comply with following requirements:

A. Size: As indicated, coordinated with sizes and coursing of adjoining flat tile where applicable.

B. Shapes: As follows, selected from manufacturer's standard shapes:

1) Bullnose skirting.

2) Sanitary cove toe trim tile.

3) Thin cove base.

4) Field-applied bullnose. Apply topical clear sealer on exposed edge. Low sheen.

5) Multiple shapes and trims.

8. SETTING MATERIALS

8.1 Thin Set Portland Cement Mortar
Where thin set Portland cement mortar applications are indicated, use the following unless otherwise required.

A. Dry Set Portland cement mortar, ANSI A118.1, factory sanded; or latex Portland cement mortar, ANSI A 118.4.

8.2 Chemical Resistant Epoxy Mortar
ANSI A118.3

A. Provide product capable of resisting continuous and intermittent exposure to temperatures of up to 140 degrees F and 212 degrees F, respectively, as certified by mortar manufacturer for intended use.

B. Use chemical resistant epoxy mortar at all porcelain tile and mosaic floors.

8.3 Waterproof Membrane in wet areas:
Approved Manufacturers: Schluter, Kerdi
Full coverage in wet areas to create "bowl" effect coverage.

8.4 Crack Isolation Membrane in dry areas with floor tile.
Approved Manufacturers: Schluter, Ditra

8.5 Floor Patch Leveler shall receive primer finish.

8.6 All setting and grouts shall be compatible and shall maintain Limited Lifetime Warranty.

9. GROUTING MATERIALS

9.1 Grout

A. Latex additive in grout, which is compatible with latex additive in latex-Portland cement mortar. Comply with ANSI A118.6.

B. Urethane Grout

9.2 Chemical-Resistant Epoxy Grout
Provide product compatible with epoxy mortar: ANSI A118.3.

9.3 Grout Colors: Grout colors shall be as selected by Architect.

10. ELASTOMERIC SEALANTS

10.1 General
Provide manufacturer's standard chemically curing, elastomeric sealants of base polymer indicated that comply with requirements of Division 07 Section "Joint Sealants," including ASTM C920 as referenced by Type, Grade, Class, and Uses.

10.2 Colors
Provide colors of exposed sealants to match colors of grout in tile adjoining sealed joints unless otherwise indicated.

10.3 One-Part Mildew-Resistant Silicone Sealant
Type S; Grade NS; Class 25; Uses NT, G, A, and as applicable to nonporous joint substrates indicated, O; formulated with fungicide, intended for sealing interior ceramic tile joints and other nonporous substrates that are subject to in-service exposures of high humidity and temperature extremes.

10.4 Chemical-Resistant Sealants
For chemical-resistant floors, provide sealants compatible with chemical-resistant mortars and grouts, approved for use indicated by manufacturers of both mortar/grout and sealant and with chemical-resistance properties equivalent to mortar/grout.

11. MISCELLANEOUS MATERIALS

11.1 Tile Cleaner
Product specifically acceptable to manufacturer of tile and grout manufacturer for application indicated and as recommended by National Tile Promotion Federation or Ceramic Tile Institute.

11.2 Release Coat: As recommended by manufacturer.

11.3 Metal Transition Reducers, Ramps, Expansion Joints, Perimeter Joints, Cove Joints, and Edge Trim (multiple profiles): Basis of Design varies. Color varies. See Drawings.

12. MIXING MORTARS AND GROUT

Mix mortars and grouts to comply with requirements of referenced standards and manufacturers including those for accurate proportioning of materials, water, or additive content; type of mixing equipment, selection of mixer speeds, mixing containers, mixing time, and other procedures needed to produce mortars and grouts of uniform quality with optimum performance characteristics for application indicated.

PART 3 – EXECUTION

13. EXAMINATION

15.1 Examine substrates and areas where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.

15.1.1 Grind down all ridges and other irregularities.

15.1.2 Fill all cracks, holes, and depressions with leveling and patching compounds as recommended by ceramic tile manufacturer.

15.1.3 Check with the Contractor to ensure that the effects of the concrete curing agent have been removed and that the proper finish to receive the tile work is on the floor.

15.1.4 Verify that substrates for setting tile are firm, dry, clean, and free from oil or waxy films and curing compounds.

15.1.5 Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located, in or behind tile has been completed before installing tile.

15.2 Do not proceed with installation until unsatisfactory conditions have been corrected.

14. PREPARATION

16.1 Blending

For tile exhibiting color variations within the ranges selected during sample submittals, verify that tile has been blended in factory and packaged accordingly so that tile units taken from one (1) package show the same range in colors as those taken from other packages and match approved samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

16.2 Field-Applied Temporary Protective Coating

Where needed to prevent adhesion or staining of exposed tile surfaces by grout, protect exposed surfaces of tile against adherence of mortar and grout by pre-coating them with a continuous film of temporary protective coating, taking care not to coat unexposed tile surfaces.

15. INSTALLATION, GENERAL

17.1 ANSI Tile Installation Standard

Comply with parts of ANSI 108 series of tile installation standards included under "American National Standard Specifications for the Installation of Ceramic Tile" that apply to type of setting and grouting materials and methods indicated.

17.2 Tile Council of America (TCNA) Installation Guidelines

TCNA "Handbook for Ceramic Tile Installation"; comply with TCNA installation methods indicated.

17.3 Extend tile work into recesses and under or behind equipment and fixtures to form a complete covering without interruptions except as otherwise shown. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.

17.4 Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so that plates, collars, or covers overlap tile.

17.5 Jointing Pattern

Unless otherwise shown, lay tile in grid pattern. Align joints when adjoining tiles on floor, base, walls, and trim are same size. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths unless otherwise shown.

17.6 Grout tile to comply with the referenced installation standards, using grout materials indicated.

A. Mix and install proprietary components to comply with grout manufacturer's directions.

17.7 Field apply bullnose to exposed edge where indicated in Drawings.

17.8 Transitions between finish from materials with different thicknesses. Contractor to include additional floor prep. Gradually feather floor leveler to achieve reduced transition height.

18. FLOOR INSTALLATION METHODS

18.1 Tile

Install tile to comply with requirements indicated below for setting bed methods, TCNA installation methods related to types of subfloor construction, and grout types. Slope floor to floor drain.

18.1.1 Dry-Set Mortar or Latex-Portland Cement Mortar and Grout (at Dry, Non-Toilet Locations)

A. Concrete Subfloors, Interior: TCNA F113

B. Grout: Latex-Portland cement

18.1.2 Chemical-Resistant Epoxy Mortar and Grout (at All Porcelain Tile and Mosaic Floors)

A. Concrete Subfloors, Interior: TCNA F131

B. Grout: Chemical-resistant epoxy

18.2 Metal Edge Strips

Install at locations indicated or where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with top of tile. See Drawings F122.

18.3 Wet Areas: Waterproof membrane.

18.4 Dry Areas: Crack isolation membrane.

19. WALL TILE INSTALLATION METHODS

19.1 Install types of tile designated for wall application to comply with requirements indicated below for setting-bed methods, TCNA installation methods related to subsurface wall conditions, and grout types:

19.1.1 Thin-Set Latex-Cement Mortar (at Dry, Non-Shower Locations)

A. Masonry, Interior: TCNA W202

B. Metal Studs, Interior: TCNA W245

C. Grout: As noted on Drawings.

19.2 Install sealant at all joints at interior corners and door jambs.

19.3 Metal Edge Strip in limited locations, see Drawings.

19.4 Wet Areas: Waterproof membrane.

20. CLEANING AND PROTECTION

20.1 Cleaning

Upon completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.

20.1.1 Remove grout residue from tile as soon as possible.

20.1.2 Unglazed tile may be cleaned with acid solutions only when permitted by tile and grout manufacturer's printed instructions, but no sooner than 14 days after installation. Protect metal surfaces, cast iron, and vitreous plumbing fixtures from effects of acid cleaning. Flush surface with clean water before and after cleaning.

20.1.3 Remove temporary protective coating by method recommended by coating manufacturer and that is acceptable to grout manufacturer. Trap and remove coating to prevent it from clogging drains.

20.2 Finished Tile Work
Leave finished installation clean and free of cracked, chipped, broken, unbonded, and otherwise defective tile work.

20.3 Provide final protection and maintain conditions in a manner acceptable to manufacturer and installer that ensures that tile is without damage or deterioration at time of Substantial Completion.

20.3.1 When recommended by tile manufacturer, apply a protective coat of neutral protective cleaner to completed tile walls and floors. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear.

20.3.2 Prohibit foot and wheel traffic from tiled floors for at least seven (7) days after grouting is completed.

20.4 Before final inspection, remove protective coverings and rinse neutral cleaner from tile surfaces.

21. MAINTENANCE AND WARRANTY

21.1 All tile installations and especially exterior installations including expansion joint sealant require periodic inspection and maintenance by the Owner.

21.2 Materials and installation shall be according to manufacturer's recommendations. The warranty shall not be compromised by either material or installation during scope of project.

End of Section 093013

SECTION 095113

ACOUSTICAL PANEL CEILINGS

PART 1 – GENERAL

1. RELATED DOCUMENTS

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

2. SUMMARY

This Section includes:

2.1 Acoustical panels and exposed suspension systems for ceilings

2.2 Tectum Panels (Gym)

3. DEFINITIONS

3.1 AC: Articulation Class

3.2 CAC: Ceiling Attenuation Class

3.3 LR: Light Reflectance Coefficient

3.4 NRC: Noise Reduction Coefficient

4. SUBMITTALS

4.1 Product Data: For each type of product indicated.

4.2 Samples for Verification

For each component indicated and for each exposed finish required, prepared on Samples of size indicated below.

4.2.1 Acoustical Panel: Set of full-size Samples of each type, color, pattern, and texture.

4.2.2 Exposed Suspension System Members, Moldings, and Trim: Set of 12-inch-long Samples of each type, finish, and color.

4.3 Maintenance Data: For finishes to include in maintenance manuals.

5. QUALITY ASSURANCE

5.1 Source Limitations

Obtain each type of acoustical ceiling panel and supporting suspension system through one (1) source from a single manufacturer.

5.2 Fire-Test-Response Characteristics

Provide acoustical panel ceilings that comply with the following requirements:

5.2.1 Surface-Burning Characteristics: Provide acoustical panels with surface-burning characteristics complying with ASTM E1264 for Class A materials as determined by testing identical products per ASTM E84.

6. DELIVERY, STORAGE, AND HANDLING

6.1 Deliver acoustical panels, suspension system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.

6.2 Before installing acoustical panels, permit them to reach room temperature and a stabilized moisture content.

6.3 Handle acoustical panels carefully to avoid chipping edges or damaging units in any way.

7. PROJECT CONDITIONS

Environmental Limitations

Do not install acoustical panel ceilings until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

7.1 Pressurized Plenums: Operate ventilation system for not less than 48 hours before beginning acoustical panel ceiling installation.

8. COORDINATION

Coordinate layout and installation of acoustical panels and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

PART 2 – PRODUCTS

9. ACOUSTICAL PANELS, GENERAL

9.1 Acoustical Panel Standard

Provide manufacturer's standard panels of configuration indicated that comply with ASTM E1264 classifications as designated by types, patterns, acoustical ratings, and light reflectance, unless otherwise indicated.

9.1.1 Mounting Method for Measuring NRC: Type E-400; plenum mounting in which face of test specimen is 15-3/4 inches away from test surface per ASTM E795.

9.2 Acoustical Panel Colors and Patterns

Match appearance characteristics indicated for each product type.

9.2.1 Where appearance characteristics of acoustical panels are indicated by referencing pattern designations in ASTM E1264 and not manufacturers' proprietary product designations, provide products selected by Architect from each manufacturer's full range that comply with requirements indicated for type, pattern, color, light reflectance, acoustical performance, edge detail, and size.

9.3 Broad Spectrum Antimicrobial Fungicide and Bactericide Treatment

Provide acoustical panels treated with manufacturer's standard antimicrobial formulation that inhibits fungus, mold, mildew, and gram positive and gram-negative bacteria and showing no mold, mildew, or bacterial growth when tested according to ASTM D3273 and evaluated according to ASTM D3274 or ASTM G21.

10. ACOUSTICAL PANELS FOR ACOUSTICAL PANEL CEILING

10.1 General Ceiling – Public Areas
Suspended Acoustical Ceiling System:
Tile: Fine Fissured Fireguard, White; Edge: Beveled Tegular;
Size: 24-inch squ. x 3/4-inch thick;
Grid: Suprafine XL Fireguard, 9/16-inch grid, 1-hour fire rating, U.N.O., White.

10.1.1 Installer shall paint cut edge. Color: White.
Include at perimeter shadow moulding. Install hold-down clips in vestibules and exterior entry.

10.1.2 Manufacturer Contact:
Armstrong Ceiling: Elizabeth Moon, 1-816-800-2582 phone,
email: emoon@armstrongceiling.com

10.2 Utility and Maintenance Rooms, U.N.O:
Suspended Acoustical Ceiling System:
Tile: Fine Fissured Fireguard, White; Edge: Beveled Tegular;
Size: 24-inch squ. x 3/4-inch thick;
Grid: Prelude Fireguard, 15/16-inch grid, 1-hour fire rating, UNO White.

10.2.1 Installer shall paint cut edge. Color: White.

10.2.2 Manufacturer Contact:
Armstrong Ceiling: Elizabeth Moon, 1-816-800-2582 phone,
email: emoon@armstrongceiling.com

10.3 General Serving Kitchen:
Vinyl-faced Ceiling Tile System:
Tile: Gridstone Fire, White, 2-hour fire rating; Edge: Square. Size: 24-inch squ., 1/2-inch thick.
Grid: Prelude Plus XL, 15/16-inch all-aluminum grid, fire-rated.

10.3.1 Installer shall paint cut edge. Color: White.

10.3.2 Manufacturer Contacts:
Tile: National Gypsum
Grid: Armstrong Ceiling: Elizabeth Moon, 1-816-800-2582 phone,
email: emoon@armstrongceiling.com

11. METAL SUSPENSION SYSTEMS, GENERAL

11.1 Metal Suspension System Standard
Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable requirements in ASTM C635.

11.2 Finishes and Colors, General
Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Provide manufacturer's standard factory-applied finish for type of system indicated.

11.3 Attachment Devices
Size for five (5) times the design load indicated in ASTM C 635, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.

11.3.1 Anchors in Concrete: Anchors of type and material indicated below, with holes or loops for attaching hangers of type indicated and with capability to sustain, without failure, a load equal to 5 times that imposed by ceiling construction, as determined by testing per ASTM E488 or ASTM E1512 as applicable, conducted by a qualified testing and inspecting agency.

A. Type: Post-installed expansion anchors

B. Corrosion Protection: Carbon-steel components zinc plated to comply with ASTM B633, Class Fe/Zn 5 for Class SC one (1) service condition

C. Corrosion Protection: Components fabricated from nickel-copper-alloy rods complying with ASTM B164 for UNS No. N04400 alloy.

11.4 Wire Hangers, Braces, and Ties
Provide wires complying with the following requirements:

11.4.1 Zinc-Coated, Carbon-Steel Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper.

11.4.2 Nickel-Copper-Alloy Wire: ASTM B164, nickel-copper-alloy UNS No. N04400.

11.4.3 Size: Select wire diameter so its stress at three (3) times hanger design load (ASTM C635, Table 1, "Direct Hung") will be less than yield stress of wire, but provide not less than 0.106-inch-diameter wire.

11.5 Hanger Rods: Mild steel, zinc-coated or protected with rust-inhibitive paint.

12. METAL SUSPENSION SYSTEM FOR ACOUSTICAL PANEL CEILING

12.1 Wide-Face, Capped, Double-Web, Steel Suspension System
Main and cross runners roll formed from cold-rolled steel sheet, prepainted, electrolytically zinc-coated, or hot-dip galvanized according to ASTM A653/A653M, not less than G30 coating designation, with prefinished 15/16-inch-wide metal caps on flanges.

12.1.1 Structural Classification: Intermediate-duty system

12.1.2 End Condition of Cross Runners: Override (stepped) or butt-edge type

12.1.3 Face Design: Flat, flush

12.1.4 Cap Material: Steel cold-rolled sheet

12.1.5 Cap Finish: Painted white

13. METAL EDGE MOLDINGS AND TRIM

13.1 Products
Subject to compliance with requirements, provide products by the acoustical panel ceiling manufacturer.

13.2 Roll-Formed, Sheet-Metal Edge Moldings and Trim
Manufacturer's standard moldings for edges and penetrations that comply with design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension system runners.

13.2.1 Provide manufacturer's standard edge moldings that fit acoustical panel edge details and suspension systems indicated and that match width and configuration of exposed runners, unless otherwise indicated.

13.2.2 For lay-in panels with reveal edge details, provide stepped edge molding that forms reveal of same depth and width as that formed between edge of panel and flange at exposed suspension member.

14. ACOUSTICAL SEALANT

14.1 Acoustical Sealant for Exposed and Concealed Joints
Manufacturer's standard nonsag, paintable, nonstaining latex sealant, with a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24), complying with ASTM C834 and effective in reducing airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E90.

14.2 Acoustical Sealant for Concealed Joints
Manufacturer's standard nondrying, nonhardening, nonskinning, nonstaining, gunnable, synthetic-rubber sealant, with a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24), recommended for sealing interior concealed joints to reduce airborne sound transmission.

15. TECTUM PANELS

Provide and install Tectum Panels in Gym. All Tectum Panels shall have a square edge top and bottom. Provide chamfer edges to vertical butt joints. The panels shall be standard 4-foot wide panels. Tectum panels on the walls shall be 2 inches thick. The finish of the tectum shall be factory primed.

15.1 Install as follows:

A. Chamfer vertical butt joints

B. Tectum install with wood trim

C. 1-1/2 inch batt installation between nailers – batt unfaced

D. Masterweld 948 tp seal for high impact

E. For additional information, see details on Drawings.
Refer to Detail A on Sheet A6.10, and Detail 14 on Sheet A8.10.

PART 3 – EXECUTION

16. EXAMINATION

Examine substrates, areas, and conditions, including structural framing to which acoustical panel ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical panel ceilings.

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

17. PREPARATION

Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders, and comply with layout shown on Reflected Ceiling Plans.

18. INSTALLATION

18.1 General

Install acoustical panel ceilings to comply with ASTM C636 and design requirements indicated, per manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."

18.2 Suspend ceiling hangers from building's structural members and as follows:

18.2.1 Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.

18.2.2 Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, counter-splaying, or other equally effective means.

18.2.3 Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.

18.2.4 Secure wire hangers to ceiling suspension members and to supports above with a minimum of three (3) tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.

18.2.5 Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices that are secure and appropriate for both structure to which hangers are attached and type of hanger involved. Install hangers in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.

18.2.6 Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, post-installed mechanical or adhesive anchors, or power-actuated fasteners that extend through forms into concrete.

18.2.7 When steel framing does not permit installation of hanger wires at spacing required, install carrying channels or other supplemental support for attachment of hanger wires.

18.2.8 Do not attach hangers to steel deck tabs.

18.2.9 Do not attach hangers to steel roof deck. Attach hangers to structural members.

18.2.10 Space hangers not more than 48 inches on center along each member supported directly from hangers, unless otherwise indicated; provide hangers not more than 8 inches from ends of each member.

18.2.11 Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.

18.3 Secure bracing wires to ceiling suspension members and to supports with a minimum of four (4) tight turns. Suspend bracing from building's structural members as required for hangers, without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with post-installed anchors.

18.4 Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.

18.4.1 Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.

18.4.2 Screw attach moldings to substrate at intervals not more than 16 inches on center and not more than 3 inches from ends, leveling with ceiling suspension system to a tolerance of 1/8-inch in 12 feet. Miter corners accurately and connect securely.

18.4.3 Do not use exposed fasteners, including pop rivets, on moldings and trim.

18.5 Install suspension system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

18.6 Install acoustical panels with undamaged edges and fit accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.

18.6.1 Arrange directionally patterned acoustical panels as follows:

A. Install panels with pattern running in one (1) direction parallel to short axis of space.

18.6.2 For reveal-edged panels on suspension system runners, install panels with bottom of reveal in firm contact with top surface of runner flanges.

18.6.3 Paint cut edges of panel remaining exposed after installation; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.

19. CLEANING

Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

End of Section 095113

SECTION 096513

RESILIENT BASE, RESILIENT MATERIALS AND ACCESSORIES

PART 1 – GENERAL

1. RELATED DOCUMENTS

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

2. SUMMARY

2.1 Section Includes

2.1.1 Resilient base

2.1.2 Resilient molding accessories

2.1.3 Rubber Stair Treads

2.2 Related Sections: Division 09 Section "Resilient Tile Flooring" for resilient floor tile.

3. SUBMITTALS

3.1 Product Data: For each type of product indicated.

3.2 Samples for Initial Selection: For each type of product indicated.

3.3 Samples for Verification

For each type of product indicated, in manufacturer's standard-size Samples but not less than 12 inches long, of each resilient product color, texture, and pattern required.

4. QUALITY ASSURANCE

4.1 Fire-Test-Response Characteristics

As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.

4.3 Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

5. DELIVERY, STORAGE, AND HANDLING

Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 degrees F or more than 90 degrees F.

6. PROJECT CONDITIONS

6.1 Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 degrees F or more than 95 degrees F, in spaces to receive resilient products during the following time periods:

6.1.1 48 hours before installation

6.1.2 During installation

6.1.3 48 hours after installation

6.2 Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 degrees F or more than 95 degrees F.

6.3 Install resilient products after other finishing operations, including painting, have been completed.

PART 2 – PRODUCTS

7. RESILIENT BASE

7.1 Resilient Base
This contractor to identify different thicknesses, forms, and heights of materials, applicable to the project, prior to order and installation. Refer to Drawings.
Manufacturers: As noted on Drawings.

7.2 Resilient Base Standard: ASTM F1861.

7.3 Basis of Design: Roppe and Johnsonite

7.3.1 Products Listed – Roppe

A. Pinnacle Wall Base
Three (3) colors per height. 6-inch, 4-inch x 1/8-inch thick
Cove stand, toe, coil length.

B. Contours, Vertical
Three (3) colors per height. 6-inch, 4-5/8-inch x 1/8-inch thick
Cove stand, toe, 8-foot lengths.

7.3.2 Products Listed – Johnsonite

A. Millwork – Exhibit
8-inch height. Color: Navy. 8-foot lengths. MW-18-FS8

8. RESILIENT MOLDING ACCESSORY

8.1 Resilient Molding Accessory
Manufacturers: Subject to compliance with requirements, provide products by one (1) of the following:

8.1.2 Johnsonite

8.1.3 Roppe Corporation, USA

8.2 Description
Reducer strip for resilient floor covering, transition strips and other miscellaneous resilient accessories required for complete installation

8.3 Material: Rubber

8.4 Profile and Dimensions: As indicated on Drawings, and as required for specific Application.

8.5 Colors and Patterns: As selected by Architect from full range of industry colors.

9. RUBBER STAIR TREADS

Furnish and install rubber stair treads and rubber flooring, on landings.

9.1 Rubber stair treads shall extend the full width of the stair and the depth of the treads.
A. Risers and Stringers: Paint: Grey epoxy, low sheen.

9.2 Products:
A. Stair Tread: Manufacturer: Roppe, Style: Dupont Kelar, texture: Hammered, tread: 99 with additive, smooth nose, relief cut, length-sized to fit one (1) piece.

B. Landings: Smooth tile: 978, Size 24-inch square.

C. Color: Rubber, Symmetry, Burnt Umber S-194.

10. ADHESIVES

10.1 Trowelable Leveling and Patching Compounds
Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by manufacturer for applications indicated.

10.2 Adhesives
Adhesives selected from manufacturer of finish product list of recommended adhesives. Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.
A. Stair Tread Nosing: 2-part epoxy.

PART 3 – EXECUTION

11. EXAMINATION

11.1 Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

11.2 Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

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

12. PREPARATION

12.1 Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

12.2 Concrete Substrates for Resilient Stair Treads and Accessories
Prepare according to ASTM F710.

12.2.1 Verify that substrates are dry and free of curing compounds, sealers, and hardeners.

12.2.2 Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.

12.2.3 Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer.

12.2.4 Moisture Testing: Perform tests recommended by manufacturer and as follows. Proceed with installation only after substrates pass testing.

A. Perform anhydrous calcium chloride test, ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lbs. of water/1,000 sq. ft. in 24 hours.

12.3 Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.

12.4 Do not install resilient products until they are same temperature as the space where they are to be installed.

11.4.1 Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.

12.5 Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.

13. INSTALLATION – GENERAL

All installations shall be performed in such manner that manufacturer's warranty is maintained. Comply with manufacturer's written instructions.

14. INSTALLATION – RESILIENT BASE

14.1 Comply with manufacturer's written instructions for installing resilient base.

14.2 Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

14.3 Install resilient base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.

14.4 Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

14.5 Do not stretch resilient base during installation.

14.6 On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.

14.7 Job-Formed Corners

14.7.1 Coil-length Outside Corners: Use straight pieces of maximum lengths possible. Form without producing discoloration (whitening) at bends.

14.7.2 Coil-length Inside Corners: Use straight pieces of maximum lengths possible.

14.7.3 Coping Method: Inside corners Miter method. Outside Corners: Pre-fab corner blocks / micro-corners not desired nor preferred. Do not use.

15. INSTALLATION – RESILIENT ACCESSORY

15.1 Comply with manufacturer's written instructions for installing resilient accessories.

15.2 Resilient Molding Accessories
Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of carpet and resilient floor covering that would otherwise be exposed.

16. INSTALLATION – RUBBER STAIR TREADS

16.1 Comply with manufacturer's written instructions for installing rubber stair treads.

16.2 Installation shall be according to manufacturer's recommendations including the following:

16.2.1 Surface Preparation: Shall be clean, dry and free of dust, dirt, wax, grease, loose paint or particles, old adhesives, etc.

16.2.2 Adhesive must be as approved by manufacturer.

16.2.3 Stair Treads: After stair tread is cut to length, apply epoxy nose caulk as recommended by manufacturer.

A. The nose of the tread must fit tightly against the face of the stair-riser or nosing. Any open spaces at the nosing between the step and tread must be filled with epoxy caulking compound (Nose filler).

B. When butting treads together, make sure edges are square. Epoxy adhesive must be used.

C. Avoid traffic of finished floor for a minimum of twelve (12) hours after installation.

17. CLEANING AND PROTECTION

17.1 Comply with manufacturer's written instructions for cleaning and protection of resilient products.

17.2 Perform the following operations immediately after completing resilient product installation:

17.2.1 Remove adhesive and other blemishes from exposed surfaces

17.2.2 Sweep and vacuum surfaces thoroughly

17.2.3 Damp-mop surfaces to remove marks and soil

17.3 Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

17.4 Cover resilient products until Substantial Completion.

18. WARRANTY

All installations shall be performed in such manner that manufacturer's warranty is maintained. Comply with manufacturer's written instructions.

End of Section 096513

SECTION 096813

TILE CARPETING

PART 1 – GENERAL

1. RELATED DOCUMENTS

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

2. SUMMARY

2.1 Section Includes

A. Modular carpet tile

B. Not included: Custom Floor Mats. Refer to Section 101500 this specification.

2.2 Related Requirements

Section 096513 “Resilient Base and Accessories” for resilient wall base and accessories installed with carpet tile.

3. SUBMITTALS

3.1 Product Data

For each type of product.

A. Include manufacturer’s written data on physical characteristics, durability, and fade resistance.

B. Include manufacturer’s written installation recommendations for each type of substrate.

3.2 Shop Drawings

For carpet tile installation, plans showing the following:

A. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.

B. Carpet tile type, color, and dye lot

C. Type of subfloor

D. Type of installation

E. Pattern type, location, and direction

F. Pile direction

G. Type, color, and location of insets and borders

H. Type, color, and location of edge, transition, and other accessory strips

I. Transition details to other flooring materials

3.3 Samples
For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
A. Carpet Tile: Full-size Sample

B. Exposed Edge, Transition, and Other Accessory Stripping
12-inch-long Samples

3.4 Samples for Initial Selection
For each type of carpet tile.
A. Include Samples of exposed edge, transition, and other accessory stripping involving color or finish selection.

3.5 Samples for Verification
For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
A. Carpet Tile: Full-size Sample

B. Exposed Edge, Transition, and Other Accessory Stripping
12-inch-long Samples

3.6 Product Schedule: For carpet tile. Use same designations indicated on Drawings.

4. CLOSEOUT SUBMITTALS

Maintenance Data: For carpet tiles to include in maintenance manuals.
Include the following:
4.1 Methods for maintaining carpet tile, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.

4.2 Precautions for cleaning materials and methods that could be detrimental to carpet tile.

5. MAINTENANCE MATERIAL SUBMITTALS

Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
5.1 Carpet Tile
Full-size tiles equal to 5 percent of amount installed for each type and/or color indicated, but not less than one (1) carton.

6. QUALITY ASSURANCE

Installer Qualifications: An experienced installer who is certified by the International Certified Floorcovering Installers Association.

7. DELIVERY, STORAGE, AND HANDLING

Comply with the Carpet and Rug Institute's CRI 104.

8. FIELD CONDITIONS

8.1 Comply with the Carpet and Rug Institute's CRI 104 for temperature, humidity, and ventilation limitations.

8.2 Environmental Limitations
Do not deliver or install carpet tiles until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during the remainder of the construction period.

8.3 Do not install carpet tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.

8.4 Where demountable partitions or other items are indicated for installation on top of carpet tiles, install carpet tiles before installing these items.

8.5 Failures include, but are not limited to, the following:

A. More than 10 percent edge raveling, snags, and runs

B. Dimensional instability

C. Excess static discharge

D. Loss of tuft-bind strength

E. Loss of face fiber

F. Delamination

8.6 Manufacturer Warranty: Lifetime Commercial Limited Warranty.

PART 2 – PRODUCTS

9. CARPET TILE

Refer to Drawings and Floor Finish Legend and Notes, Material Legend, and Room Finish Matrix on drawings. Confirm all product selections with drawings and architect, prior to placing order.

9.1 Basis of Design: Patcraft, Style: Learning Lab
Colors:

A. 00550 Concept

B. 00470 MindMap, Midnight

C. 00420 Workshop, Cyan, Upper

10. SETTING COMPOUNDS

10.1 Trowelable Leveling and Patching Compounds
Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.

10.2 Adhesives
Patcraft 4151. Trowel for carpet specified.

PART 3 – EXECUTION

11. EXAMINATION

11.1 Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet tile performance.

11.2 Examine carpet tile for type, color, pattern, and potential defects.

11.3 Concrete Slabs
Verify that finishes comply with requirements specified in Section 033000 "Cast-in-Place Concrete" and that surfaces are free of cracks, ridges, depressions, scale, and foreign deposits.

11.3.1 Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft. and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.

A. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb. of water/1,000 sq. ft. in 24 hours.

B. Relative Humidity Test: Using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.

C. Perform additional moisture tests recommended in writing by adhesive and carpet tile manufacturers. Proceed with installation only after substrates pass testing.

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

12. PREPARATION

12.1 Comply with the Carpet and Rug Institute's CRI 104 and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile.

12.2 Fill or level cracks, holes and depressions 1/8 inch wide or wider, and protrusions more than 1/32-inch unless more stringent requirements are required by manufacturer's written instructions.

12.3 Concrete Substrates: Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by adhesive and carpet tile manufacturers.

12.4 Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

13. INSTALLATION

13.1 Comply with the Carpet and Rug Institute's CRI 104, Section 10, "Carpet Tile," and with carpet tile manufacturer's written installation instructions.

13.2 Installation Method: Ashlar.

13.3 Maintain dye-lot integrity. Do not mix dye lots in same area.

13.4 Maintain pile-direction, monolithic.

13.5 Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.

13.6 Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.

13.7 Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on carpet tile as marked on subfloor. Use nonpermanent, nonstaining marking device.

13.8 Install pattern parallel to long walls unless shown otherwise on drawings.

13.9 Use weighted roller to set carpet tiles into adhesive.

13.10 Transition centers under door to room.

13.11 Seal carpet edge at color transitions.

13.12 Maintain field expansion joints. Utilize Detail 8 / Sheet A8.5. This Contractor shall identify locations on shop submittal.

13.13 Transitions between finish from materials with different thicknesses. Contractor to include additional floor prep. Gradually feather floor leveler to achieve reduced transition height.

14. CLEANING AND PROTECTION

14.1 Perform the following operations immediately after installing carpet tile:

14.1.1 Remove excess adhesive and other surface blemishes using cleaner recommended by carpet tile manufacturer.

14.1.2 Remove yarns that protrude from carpet tile surface.

14.1.3 Vacuum carpet tile using commercial machine with face-beater element.

14.2 Protect installed carpet tile to comply with the Carpet and Rug Institute's CRI 104, Section 13.7.

14.3 Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

15. WARRANTY

Provide special project warranty, signed by carpet supplier and installer agreeing to repair or replace defective materials and workmanship of carpeting work during warranty period of one (1) year following substantial completion.

15.1 Installer's Warranty: One (1) year.

End of Section 096813

SECTION 101500

INTERIOR SPECIALTIES

1. GENERAL REQUIREMENTS

1.1 All work included under this heading shall be subject to the General Conditions of the entire operations. The Contractor for this portion of the work is required to refer especially thereto.

1.2 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.3 All requirements under Division One of these specifications shall be a part of this section. Each Contractor is responsible to be thoroughly familiar with all its contents as to requirements, which affect this division or section.

2. WORK INCLUDED

Furnish all labor and materials to complete all miscellaneous site furnishings and specialty work shown on the drawings and/or herein specified, as follows:

2.1 Motorized Projection Screens – Provided by G.C. and installed by G.C.

2.2 Prescription Cabinet – Provided by G.C. and installed by G.C.

2.3 Wall-mounted Defibrillator – Provided by Owner. Installed by G.C.

2.3 Key Watcher (Electronic Key Vault) – Provided / installed by Owner. Power / Data by G.C.

2.4 Wall Clock – Provided / installed by Owner. Power / Data by G.C.

2.5 Time Card Reader – Provided / installed by Owner. Power / Data by G.C.

2.6 Not included: Custom Floor Mats (Refer to Section 096820)

3. RELATED SECTIONS

3.1 Division 6, Section 061000 – “Rough Carpentry”

3.2 Division 9, Section 092900 – “Gypsum Board”

4. QUALITY OF WORKMANSHIP

All work that is to be performed under these specifications shall be done by the mechanics and artisans skilled in their respective trades, in order to produce first-class installation of the work.

5. SUBMITTALS

Submit Shop Drawings and Product Data

5.1 Show in detail the construction, gauges, jointing, methods of installation, fastening and supports, location, anchoring, hangers, and other pertinent data and information.
Submit details drawn to scale at not less than 1/4 inch per foot.
Shop Drawings shall contain the design, type of steel and load assumptions.

5.2 Submit (2) samples of actual specified products.

5.3 Field verify all dimensions.

6. INSTALLATION

All items shall be installed per manufacturer's published installation instructions, and in strict accordance with manufacturer's recommendations.

7. PRESCRIPTION CABINET – in Lab and JRF Medical Room

7.1 Furnish and install Lakeside Narcotic Cabinet with handle, two shelves, double door, double lock; size 30-in H x 18-in W x 10-in deep; Model LNC-6DFT, as manufactured by Lakeside Healthcare, West Milwaukee, Wisconson, phone: 1-800-558-8565 or (414) 902-6400, web: www.elakeside.com, email: info@elakeside.com; or approved equal.

7.1.1 Item Description:

A. Two (2) keys per lock

B. Constructed of heavy steel, and powder coated

C. Hinges ship standard on side shown; door hinges can easily be switched in the field by turning cabinet upside down and flipping over shelves.

D. Overall Dimensions: 30" H x 18" W x 10" D

E. Interior Dimensions: 25.75" H x 15.5" W

F. Interior Shelving: Two (2) adjustable shelves

G. Color: Beige

H. Shipping Weight: 37 lbs.

7.1.2 Note: If larger size is available in a comparable, double door, double lock prescription cabinet, please notify Owner/Architect of alternate product prior to procurement of cabinet. Potential substitutions must be submitted in accordance with Section 013300 "Submittal Procedures", Division 1 of these specifications, and Sedgwick County Standards and procedures.

7.2 Refer to Drawings for cabinet room and location. Confirm cabinet room and location with Owner prior to installation.

8. MOTORIZED PROJECTION SCREENS

8.1 Furnish and install Da-Lite Advantage with SightLine™ ceiling-recessed electric projection screens, recessed box mounted into ceiling, as noted in this specification, and where shown or noted on the drawings, as manufactured by Da-Lite, or the approved equal. Refer to drawings for number, type, location, and additional details.
For bidding purposes – verify all details with Architect prior to placing order.

8.1.1 Approved manufacturer:
Legrand | Da-Lite Screen Company, Inc., PO Box 137, Warsaw, Indiana 46581
phone: 800-622-3737; web: https://www.legrandav.com/products/da-lite

8.1.2 Motorized Projection Screens shall be Da-Lite Advantage with SightLine™ ceiling recessed electric projection screen, glass bead, matte white.

The length of the ceiling mounted pole shall drop to an adequate length to support full view on screen.

8.1.2 Include Standard and Additional Features:

A. Silent motor

B. Standard white case

C. The assembly includes the case with closure door and screen. Provide and install additional accessories as needed for complete installation.

D. All sized standard with 2-inches of black drop. See available options for extra drop pricing.

E. Built-in low voltage controls are standard. Include controls to raise and lower wall at box. See electrical drawings and specifications.

8.1.3 Note: Screen surface and format is listed for bidding purposes – verify product selection and product details with Owner prior to ordering.

8.2 Screen Locations: Refer to Drawings. Confirm Model numbers, type of screen, and screen locations with architect prior to placing order.

8.2.1 All projection screens are:
Da-Lite Advantage with Closure Door – 16:9 HDTV Format for bidding purposes, Model 88159, approx. 10 feet wide, 65 inch x 116 inch, 133 nominal diagonal.
With optional accessories: Locking switch cover plate, Low voltage wall switch.

Drop length and screen surfaces vary.

8.2.2 Room H213, H256, and R110:
Drop length: 12-inch drop length. Screen surface: High Contrast Matte White.
One (1) in each room.
H213: 45" x 80" Nominal Diagonal: 92"
H256: 54" x 96", Nominal Diagonal: 110"

8.2.3 Conference Room H209
Drop length: 18-inch drop length. Screen surface: Matte White.
Da-Lite Advantage with Closure Door – 16:9 HDTV Format, model 94280, 54 inch x 96 inch, approx. 8 feet wide, 110 nominal diagonal.
H209: 65" x 116", Diagonal 133"

8.2.4 Room B119 and Room B121
Drop length: 24-inch drop length. Screen surface: Matte White.
Da-Lite Advantage with Closure Door – 16:9 HDTV Format, model 88159, approx. 10 feet wide, 65 inch x 116 inch, 133 nominal diagonal.
One (1) in each room.
B119 and B121: 90" x 160", Nominal Diagonal: 184"

9. WALL-MOUNTED DEFIBRILLATOR
Product to be provided by Owner, and installed by General Contractor.

10. KEY WATCHER (Electronic Key Vault) – By Owner
Product to be provided and installed by Owner. General Contractor to provide power and data.

11. WALL CLOCK – By Owner
Product to be provided and installed by Owner. General Contractor to provide power and data.

12. TIME CARD READER – By Owner
Product to be provided and installed by Owner. General Contractor to provide power and data.

End of Section 101500

SECTION 101501

LOCKERS

PART 1 – GENERAL

1. RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 specifications apply to this section.

2. SCOPE OF WORK

This Section includes Welded Metal Lockers, including the following. All lockers are to be provided and installed by General Contractor.

2.1 Provide fasteners and anchorage devices to install lockers provided under this section.

2.2 Provide metal filler panels to fill between banks of lockers and adjacent construction.

2.3 General Contractor is responsible for field construction of toe kick framing or raised platform, as specified. The Lockers for Mail are set on a raised platform rather than toe kick framing.

3. SUBMITTALS

3.1 Product Data

Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of locker and bench.

3.2 Shop Drawings

Show lockers in detail, method of installation, fillers, trim, base, and accessories. Include locker numbering sequence information.

3.3 Samples for Verification

Submit one full-size locker sample for evaluation. Adherence to the specification is required. Locker submitted must meet specification regardless of manufacturer's standard product. Submit manufacturer's technical data and installation instructions for metal locker units.

3.3.1 If a job-specific full-size sample is required, please note that the manufacturer will need a minimum of 3 weeks lead time to build the special locker.

3.3.2 All info required to build the job specific sample must be provided to the manufacturer before fabrication can begin.

3.4 Maintenance Data

For adjusting, repairing, and replacing locker doors and latching mechanisms to include in maintenance manuals specified in Division 01.

4. QUALITY ASSURANCE

4.1 Uniformity and Single Manufacturer Requirements
Provide each type of metal locker as produced by a single manufacturer, including necessary mounting accessories, fittings, and fastenings.

4.2 All of the sheet metal parts and all major hardware components used to manufacture this product to be produced in the United States of America. No exceptions will be allowed.

4.3 Installers Qualifications
Lockers to be installed by an experienced agent of the manufacturer.

5. DELIVERY, STORAGE, AND HANDLING

5.1 Packing and Shipping
Do not deliver metal lockers until building is enclosed and ready for locker installation.

5.2 Storage and Protection
Protect materials from damage during delivery, handling, storage and installation.

6. WARRANTY

Locker manufacturer shall warrant the lockers with a Limited Lifetime Warranty, for use of the original purchaser from date of shipment. Warranty shall include all defects in material and workmanship, excluding finish, vandalism, and improper installation.

PART 2 – PRODUCTS

7. BASIS OF DESIGN

Core formed steel locker by DeBourgh Manufacturing Company, 2-tier, 72-inch height, 18-inch W x 18-inch D, with louvered vent door; Latch: Sentry III unless otherwise indicated. One (1) locker is to be ADA Locker. Include Sloped top and filler pieces.
Color: Desert Beige.

7.1 Locker configuration as shown on drawings and this specification. Refer to drawings for detail.

8. MANUFACTURERS

Acceptable Manufacturers
Subject to compliance with requirements of the Contract Documents,
Manufacturer / Basis of Design: DeBourgh, Core.
Distributor: SOPA, Inc.,
Contact: C.J. Carey, phone: 620-440-1302, email: cjcarey@sopainc.com.

9. LOCKERS

All lockers to have manufacturer-provided slope top with manufacturer matching color; color to match locker.

9.1 Lobby Area – Room B102
Locker Columns: Four equal locker units per column. Metal doors; lockable with built-in locks.
Refer to Drawings.

9.1.1 Approved Product: Manufacturer: Debourgh, Core, 18-inch W x 18-inch D x 6-foot H.

9.1.2 Features: Piano hinge, louvered door vent, solid side, matching metal sloped top, built-in lock.

9.1.4 Actual built-in lock to be selected / approved by Owner.

9.1.5 Include filler frames and backs.

9.1.6 One (1) locker unit to accommodate ADA.

9.1.7 Finish: Baked Powder Coat, Color: Desert Beige.

9.1.8 Number Plate, with Owner to identify number sequence.

9.2 Room R121
Locker Columns: Two equal locker units per column. Metal doors. Padlock function. Refer to Drawings.

9.2.1 Approved Product: Manufacturer: Debourgh, Core, 18-inch W x 18-inch D x 6-foot H.

9.2.2 Features: Single-point latching, piano hinge, louvered door vent, solid side, matching metal sloped top.

9.2.4 Padlock function.

9.2.5 Include filler frames and backs.

9.2.6 One (1) locker unit to accommodate ADA.

9.2.7 Finish: Baked Powder Coat, Color: Desert Beige.

9.2.8 Number Plate, with Owner to identify number sequence.

9.3 Room B110, North Wall
Locker Columns: Two equal locker units per column. Metal doors. Padlock function. Refer to Drawings.

9.3.1 Approved Product: Manufacturer: Debourgh, Core, 18-inch W x 18-inch D x 6-foot H.

9.3.2 Features: Single-point latching, piano hinge, louvered door vent, solid side, matching metal sloped top.

9.3.4 Latching / Padlock function.

9.3.5 Include filler frames and backs.

9.3.6 One (1) locker unit to accommodate ADA.

9.3.7 Finish: Baked Powder Coat, Color: Desert Beige.

9.3.8 Number Plate, with Owner to identify number sequence.

9.4 Room B110, South Wall
Locker Columns: Four equal locker units per column. Metal doors. Padlock function. Refer to Drawings.

9.4.1 Approved Product: Manufacturer: Debourgh, Core, 18-inch W x 18-inch D x 6-foot H.

9.4.2 Features: Single-point latching, piano hinge, louvered door vent, solid side, matching metal sloped top.

9.4.4 Latching / Padlock function.

9.4.5 Include filler frames and backs.

9.4.6 One (1) locker unit to accommodate ADA.

9.4.7 Finish: Baked Powder Coat, Color: Desert Beige.

9.4.8 Number Plate, with Owner to identify number sequence.

10. FABRICATION

10.1 Locker Construction

10.1.1 Lockers to be fully welded unibody construction with exposed welds sanded smooth.

10.1.2 No bolts, screws or rivets used in assembly of locker units.

10.1.3 Ship lockers set-up, ready to be anchored in place in accordance with manufacturer's instructions.

10.2 Body of Lockers

10.2.1 Tops, Bottoms, Sides and Intermediate Partitions
Exterior sides constructed of 18 gauge domestic cold rolled sheet steel for maximum durability with 18 gauge intermediate partitions.

10.2.2 Backs and Intermediate Partitions
Solid sheet of 18 gauge cold rolled sheet steel welded to frames of sides and intermediate partitions.

10.2.3 Shelves
Constructed of 18 gauge cold rolled sheet steel welded to sides and intermediate partition construction. Shelves provided in lockers 60-inches and taller, located to provide a minimum of 12-inches clearance.

10.2.4 Tier Dividers
Full depth 18 gauge CRS securely welded on all four sides, to combine with tops, bottoms, sides, and intermediate partitions to create four-sided continuous door strike.

10.3 Continuous Door Strike
Tier dividers, tops and bottoms constructed to provide four-sided, continuous door strike for a secure, sanitary and intrusion-free locker while door is in closed position.

10.4 Doors: Formed steel metal door with ventilation as specified.
10.4.1 Locker body to be formed into the door frame, giving each door four sides of contact for security, to help prevent doors from being kicked in, and to help prevent prying.

10.5 Latching
One of the following heavy duty latching systems, as selected by Architect / Owner:
10.5.1 Sentry II Recessed Gravity Latch:
A. Door containing stainless steel cup recessed into formed door (doors 18 inches and higher).

B. 12 Ga steel finger lift mechanism.

C. Spring activated nylon slide latch enclosed in steel latch channel allows closing of door while padlock or built-in lock is in position.

D. Rubber bumpers riveted to door stops for silent operation

E. Available in wardrobe doors over 18 inches in height only.

10.5.2 Sentry III Single-Point Latch:
A. Eleven Ga stationary latch welded securely to locker frame.

B. Latch extends no more than 1-1/4-inch into locker opening, penetrating through cup.

C. Flush-mounted, recessed stainless steel cup in a formed door with 18 Ga vertical back panel stiffener.

10.5.3 (Sentry I-R) Three-Point/Three-Sided Recessed Latching:
A. Finger lift mechanism operates a three-point, three-sided latch in a flush mounted stainless-steel cup.

B. Latching rods, 3/8-inch diameter, engage top and bottom edge of locker frame. A 3/16-inch thick center latch engages door jamb.

10.5.4 Set for use with padlock or built-in combination lock only.
Owner to select built-in lock for Lobby area.

10.6 Hinges

10.6.1 16 gauge continuous piano hinge on the right side of all openings

10.6.2 Hinges welded to door and riveted to locker frame

10.7 Slope Tops

Provide 18 gauge all welded slope top with 25 degree pitch, attached at factory with concealed fasteners. Slope top to be in addition to standard 18 gauge flat top. Slope top extends past locker body and flush with exterior of door for added security.

10.8 Closed Base

Provide 4-inch high, 18 gauge welded steel base enclosed on all four sides securely welded to locker bottom.

10.9 Reinforced Bottom

Provide 16 gauge spacer channel welded to locker bottom from front to back for a more secure installation. Spacer channel to have full height 1/2-inch ID tube welded over anchor holes to eliminate deflection upon locker installation. Spacer channel meets all California installation seismic requirements. (When closed bases are not used).

10.10 Filler Panels

Manufacturer's standard fabricated from 18 gauge solid steel finished to match lockers.

10.11 Finish

10.11.1 Complete locker unit to be thoroughly cleaned, phosphatized and sealed.

10.11.2 Finish is to be TGIC polyester baked powder coat with a minimum 2-3 mil minimum thickness.

10.11.3 Color of lockers shall be chosen from manufacturer's standard colors for this product line.

11. LOCKER ACCESSORIES

11.1 Hooks

11.1.1 Hooks to be heavy duty forged steel with ball ends and zinc plated.

11.1.2 Provide one double ceiling hook in each locker opening 20-inches or taller.

11.2 Numbering

11.2.1 Furnish each locker with black anodized laser-etched aluminum number plate.

11.2.2 Locate number plate near center of each door.

11.2.3 Owner to furnish numbering sequence.

PART 3 – EXECUTION

12. INSTALLATION

Wall Installation

12.1 Securely anchor every locker to wall and or/floor before use.

12.2 Anchoring to be determined by conditions at time of installation.

13.3 Tie adjacent locker units together by bolting at four points, two at top and two at bottom, using 1/4-inch cadmium plated bolts.

13. ADJUSTING

Upon completion of installation, inspect lockers and adjust for proper door and locking mechanism operation.

14. CLEANING

14.1 Clean interior and exposed exterior surfaces, removing debris, dust, dirt, and foreign substances on exposed surfaces.

14.2 Touch up scratches and abrasions to match original finish.

14.3 Polish stainless steel and non-ferrous metal surfaces.

14.4 Replace locker units that cannot be restored to factory-finished appearance.

14.5 Use only materials and procedures recommended or furnished by locker manufacturer.

End of Section 101501

SECTION 102800

TOILET ACCESSORIES

PART 1 – GENERAL

1. RELATED DOCUMENTS

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

2. SUMMARY

2.1 Section Includes:

A. Grab Bars – Varied length

B. Paper Towel Dispenser – Automatic / manual, surface mount / semi-recessed, and roll / C-fold.

C. Semi-recessed Combo Unit: Trash Receptacle and Paper Towel Dispenser (Automatic Roll)

D. Toilet Paper Dispenser, Surface mount

E. Soap Dispensers – Automatic / manual, and surface mount

F. Seat Cover Dispenser – Surface mount

G. Mirror: Framed glass mirror, mirror with shelf, and full-length mirror, tempered

H. Sanitary Napkin Disposal, wall-mount

I. Towel Hooks and Coat Hooks

J. Purse and Wallet Shelf

K. Mobile Device Holder

L. Baby Changing Station with Diaper Bag Hook

M. Shower Seat – Folding

N. Dressing Bench – Anchored

O. Shower Curtain / Shower Rod

P. Specimen Pass-Through Box (with Turntable), Lockable

Q. Toilet Accessories not listed above.

2.2 This contractor shall furnish and deliver to the project all items of toilet accessories hereinafter specified in the plans or specifications. Items not specifically mentioned but necessary to complete the work shall be furnished matching in quality and finish, or the items described or specified. Refer to Drawings/Plans for quantity.

2.2.1 All items are to be provided and installed by the General Contractor.

2.2.2 See "Products Listing" found in "Part 2 – Products" of this specification. Items 16 through 21 (Paper Towel Dispensers and Soap Dispensers): Items are as specified to meet Sedgwick County Standards, and are to be sole-sourced products.

2.2.3 See "Products Listing" found in Part 2 of this specification. Items 22 through 38 are basis of design products, and approved equals may be considered. Submissions for approved equals must be submitted in accordance with Section 013300 "Submittal Procedures," Division 1, of these specifications, and Sedgwick County Standards and procedures.

2.2.4 Automatic Dispensers in Public Areas and Staff Areas in rooms with sinks, unless otherwise indicated.

2.2.5 Manual Dispensers in Residential Areas and Serving Kitchens.

2.2.6 Surface-mount Dispensers at sinks in rooms with CMU walls.

2.2.7 Semi-Recessed Combination Units, provide vinyl liner for trash module.

2.2.8 Semi-Recessed Automatic Paper Towel Dispenser (Roll) shall include metal collar. The metal collar is an accessory item and shall be from same manufacturer as the dispenser. Locate where combo units are not specified, and is noted as recessed.

2.2.9 Grab Bars within shower unit shall have a peened texture.

2.2.10 Accessory items to include mounting hardware that is tamper-resistant.

3. REFERENCES

Related Sections include:

3.1 Section 101550 – "Toilet Partitions"
Note: Toilet stalls are standard height with privacy covers and privacy hinges provided and installed on the designated restroom stalls to eliminate gaps between stall doors and panels,
to ensure privacy.

3.2 Section 064023 – "Interior Architectural Woodwork"

3.3 Section 088000 – "Glazing": For mirrors, where noted.

4. COORDINATION

4.1 Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.

4.2 Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

5. SUBMITTALS

A complete schedule of accessories shall be submitted to the architect for his approval. Samples of all items appearing on the schedule shall be submitted to the Owner/Architect for approval prior to ordering.

5.1 Product Data
For each type of product
5.1.1 Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

5.1.2 Include anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.

5.1.3 Include electrical characteristics.

5.2 Product Schedule
Indicating types, quantities, sizes, and installation locations by room of each accessory required.
5.2.1 Identify locations using room designations indicated.

5.2.2 Identify accessories using designations indicated.

5.3 Informational Submittals: Sample Warranty for manufacturer's special warranty.

6. CLOSEOUT SUBMITTALS
Maintenance Data: For accessories to include in maintenance manuals.

7. DELIVERY
The General Contractor shall receive and check and be responsible for all accessories delivered to the job site. All accessories shall be properly stored until ready for application and shall be protected against damage to finish or operation after application. Installation shall be in strict accordance to the factory instructions and all accessories shall be in proper working order and adjustment upon completion of installation.

8. GENERAL REQUIREMENTS
The accessories contractor shall check accessories hardware with details and be responsible for fitting of same. If accessories specified will not fit properly, he shall notify the architect or owner so that adjustment can be made before accessories are ordered.

9. WARRANTY
9.1 General Warranty
Special warranty specified in this Article shall not deprive Owner of other rights. Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

9.2 Mirrors
Written warranty, executed by mirror manufacturer agreeing to replace mirrors that develop visible silver spoilage defects within minimum warranty period indicated.
Failures include, but are not limited to visible silver spoilage defects.
Warranty Period: 15 years from date of Substantial Completion.

PART 2 – PRODUCTS

10. MATERIALS

10.1 Stainless Steel
ASTM A666, Type 304, 0.031-inch minimum nominal thickness unless otherwise indicated.

10.2 Fasteners
Screws, bolts, and other devices: Provide accessory manufacturer's recommended fasteners, with provisions taken to provide rust-inhibitive materials, and that are tamper-resistant where exposed, and are of galvanized steel where concealed.

10.3 Chrome Plating
ASTM B456, Service Condition Number SC 2 (moderate service).

10.4 Mirrors
ASTM C1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick. Tempered in residential areas.

11. FABRICATION

11.1 General
Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.

11.2 Unless otherwise indicated, fabricate units of all-welded construction, without mitered corners; fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with continuous stainless-steel hinge.

11.3 Framed glass-mirror units: Fabricate frames for glass-mirror units to accommodate glass edge protection material.

11.3.1 Provide galvanized steel backing sheet, not less than 0.034-inch and full mirror size, with non-absorptive filler material. Corrugated cardboard is not an acceptable filler material.

11.4 Keys
Provide universal keys for internal access to accessories for servicing and resupplying. Provide the requested number of keys to Owner's representative.
Tamper-resistant keys where available in residential areas.

PRODUCT LISTING
Final selections to be made by Owner / Architect; confirm selection prior to procurement of items.
Substitutions will not be considered.

12. PAPER TOWEL DISPENSER – Automatic Unit
Surface-Mounted Automatic Paper Towel Dispenser, for 8-inch diameter / 8-inch wide roll, Satin Finish; Sole-source Manufacturer: Bobrick, Model: B2974. Towels by Owner.
General Contractor to provide batteries for fully functional dispenser.

13. PAPER TOWEL DISPENSER – Automatic, Semi-Recessed Roll Unit
Semi-Recessed Automatic Paper Towel Dispenser, for 8-inch diameter / 8-inch wide roll, Satin Finish; Sole-source Manufacturer: Bobrick, Model: B29744. Towels by Owner.
General Contractor to provide batteries for fully functional dispenser.

14. PAPER TOWEL DISPENSER – Manual, Surface-Mounted C-Fold Unit
Surface-Mounted Manual Roll Paper Towel Dispenser, for C-fold paper towels, Stainless Steel, Fino Collection, Satin Finish; Sole-source Manufacturer: Bobrick, Model: B9262 By Owner. Towels by Owner.

15. AUTOMATIC SOAP DISPENSER
GoJo 274012 TFX Touch-Free, 1200 ml. Soap by Owner.
General Contractor to provide batteries for fully functional dispenser.

16. MANUAL SOAP DISPENSERS
GoJo FMX-R, 1250 ml. Soap by Owner.

17. TOILET PAPER DISPENSER
Sole-source Manufacturer, Georgia-Pacific Two-Roll Toilet Paper Dispenser, Color Smoke or Black. Item ID: 59206

18. MOBILE DEVICE HOLDER – Include in multi-user restrooms; include one (1) in each stall, and include one (1) in each urinal space. Include in all restrooms, except JRF.
Manufacturer, Bobrick Model B-635, Stainless Steel finish.

19. GRAB BARS – IN SINGLE-USER RESTROOM AND ADA STALLS
In each restroom: Refer to drawings / details and comply with ADA requirements.
Manufacturer: Bobrick 6806 – length varies; Stainless steel with concealed flange/escutcheon. 1-1/2 diameter. Include Vertical and horizontal grab bars. Satin finish.

These items are basis of design products, submittals for approved equals may be considered.

20. SEAT COVER DISPENSER
Bobrick B-221, Stainless Steel.

21. COAT HOOKS
Distributor: Hafele. Item No: 842.34. 050, Stainless Steel.

22. SANITARY NAPKIN DISPOSAL
Bobrick, Model: B-270, Surface Mounted, Stainless Steel.

23. PURSE SHELF – FOLD-UP
Bobrick Folding Utility Shelf Model # B-287, Stainless Steel with white liner.

24. BABY CHANGING STATION(S)
Manufacturer: Koala Bear Kare Baby Changing Station. Product: KB300, horizontal surface mount. Color: White Granite 05. Include diaper bag hook.

25. CORNER URINAL SHELF

A. (Qty. 3) Manufacturer: Schluter, Shelf Pentagon Corner Wave, brush steel. Item: SES2D10EB. Installation during tile installation. Mount at different heights.

B. (Qty. 1) Manufacturer: Shelf "W" Shape, rectangular. Wave Brushed Satin Steel. Item: SWS1010ESEB. Install during tile installation.

26. MIRROR (A)
Glass mirror with stainless steel frame, 24 x 48 inches.
Bradley 781-2448 (Typical)
Bradley 781-2448-2 (JRF Areas)

27. FULL LENGTH MIRROR (B)
Bradley 781-1860-2

SHOWER ENCLOSURE:
These items are basis of design products, submittals for approved equals may be considered.

28. TWO-WALL GRAB BAR
In each shower enclosure: refer to details and ADA requirements
Manufacturer: Bobrick 6861.99 Two-Wall Grab bar; Stainless steel with concealed flange/escutcheon. Plus Vertical Grab bar: Bobrick 6806.99- 18. Peened finish.

29. TOWEL HOOKS
Distributor: Hafele. Item No: 842.34.000, Stainless Steel.

30. FOLDING SHOWER SEAT
Bobrick Model: B-51815. Reversible seat with swing-down leg shower seat.

31. DRESSING BENCH
Manufacturer: Lockers.com, Model: # 77771-ADA, silver.
General Contractor to anchor bench to floor.

32. MIRROR WITH SHELF (C)
Stainless steel frame / stainless steel shelf. Install in shower rooms.
Bradley 7815-2436-2

33. SHOWER CURTAIN ROD AND SHOWER CURTAIN LINER

32.1 Shower Curtain: Basis of design: Hookless (no-hook) header.
"Liner" type shower curtain. Solid color to be selected by Owner.
Approx 42" W x 86" H. No window in curtain.

Curtain shall be of quality for Hospitality or Commercial grade.
Curtain is to be inherently water-resistant. Option to Launder is acceptable.
Hookless header. Curtain installs onto a rod. Disposable curtain is not acceptable.
Track system is not acceptable. Owner to approved curtain prior to procurement.

32.1.1 Quantity: Eight (8), includes two (2) for Owner's "attic" stock.

32.1.2 Acceptable Alternative:
Custom size, Grey Litchfield.

32.1.3 Approved Contact:
Amanda Arling-Rachell, Phoenix Textile Corp.
(636) 542-5771 phone, or 1-800-325-1440
email: AArling@phoenixtextile.com

32.2 Rod: ASI Model 1224-36. Install with tamper-resistant screws.

LAB:

34. RECESSED SPECIMEN PASS-THROUGH BOX (with Turntable)
ASI American Specialties Model # 0515 Lockable Unit.

PART 3 – EXECUTION

35. INSTALLATION

35.1 Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

35.2 General Contractor shall provide blocking “in-wall” to support function of accessory.

35.3 Mount accessory to blocking where provided.

35.4 Provide anchorage that is fully concealed when unit is closed.

35.5 Where accessory installation is mounted to a surface with different thicknesses. Provide blocking to achieve a plumb installation. Conceal blocking.

35.6 Grab Bars
Install to withstand a downward load of at least 250 lbf, when tested according to ASTM F446.

35.7 Mirrors
Provide mirror backing and support system that permits rigid, tamper-resistant glass installation and prevents moisture accumulation.

35.8 Dispensers – Generally Applied Placement / Type

A1. Where paper towel (roll) dispenser projects beyond 4 inches from face of wall: Provide semi-recessed unit with collar.

A2. CMU wall construction: Surface mount.

A3. Paper towel dispenser Type: Roll and C-fold. Roll dispensers shall not be placed in JRF Residential areas. Roll dispensers are to be located in Serving Kitchens and in Public Restrooms.

B1. In all areas except for JRF Residential areas: Automatic.

B2. JRF Residential Areas: Manual.

B3. Serving Kitchens and Breakrooms: Manual paper towel dispensers, automatic soap dispensers, for bidding purposes. Confirm with Owner prior to ordering.

36. ADJUSTING AND CLEANING

36.1 Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.

36.2 Remove temporary labels and protective coatings.

36.3 Clean and polish exposed surfaces according to manufacturer’s written instructions.

RESTROOM ACCESSORIES

Refer to entire set of Drawings for accessory locations and quantity.

JRF RESIDENTIAL DORM AREA – Restrooms with Shower
R143, R144, R163, R164, R183, R184
Each to have:
Grab Bars, 36″, 42″, 18″
Paper Towel Dispenser – C-Fold, Manual
Soap Dispenser, Manual
Toilet Paper Dispenser
Seat Cover Dispenser
Sanitary Napkin Disposal
Tempered Mirror with Shelf (C)
Tempered Full Length Mirror (B)
Dressing Bench (fixed)
Towel Hooks
Coat Hooks

SHOWER ENCLOSURE, Each to have:
Grab Bars with peened texture: Two-wall Grab Bar, handed, and 18″ length
Shower Seat (folding)
Shower Rod with Hookless Curtain

SINGLE-USER RESTROOMS
R108, R109
Each to have:
Grab Bars, 36″, 42″, 18″
Paper Towel Dispenser – C-Fold, Manual
Soap Dispenser, Automatic
Toilet Paper Dispenser
Seat Cover Dispenser
Sanitary Napkin Disposal
Tempered Mirror 24x48 (A)
Coat Hooks

LAB B118 and JRF MEDICAL ROOM R117
Each to have:
Soap Dispenser, Automatic
Paper Towel Dispenser, C-Fold
Pass-Through Medical Cabinet (Specimen Cabinet) (B118 only)
Tempered Mirror 24x48 (A) (R117 only)
Coat Hooks

SINGLE-USER RESTROOMS
B116, R125, R127, F110
Each to have:
Grab Bars, 36″, 42″, 18″
Paper Towel Dispenser – Semi-Recessed, Automatic, Roll Paper
Soap Dispenser, Automatic
Toilet Paper Dispenser
Seat Cover Dispenser
Sanitary Napkin Disposal
Tempered Mirror 24x48 (A)
Tempered Full Length Mirror (B)
Coat Hooks

SINGLE-USER RESTROOMS
B106 and B107
Each to have:
Grab Bars, 36″, 42″, 18″
Semi-Recessed Combo Unit – Trash Receptacle and Paper Tower Dispenser, Automatic, Roll Paper
Soap Dispenser, Automatic
Toilet Paper Dispenser
Seat Cover Dispenser
Sanitary Napkin Disposal
Tempered Mirror 24x48 (A)
Tempered Full Length Mirror (B)
Coat Hooks
Baby Changing Station with Diaper Bag Hook

SINGLE-USER RESTROOMS
B143 and B144
Each to have:
Grab Bars, 36″, 42″, 18″
Paper Tower Dispenser, Manual, C-Fold
Soap Dispenser, Automatic
Toilet Paper Dispenser
Seat Cover Dispenser
Sanitary Napkin Disposal
Tempered Mirror 24x48 (A)
Tempered Full Length Mirror (B)
Coat Hooks

MULTI-USER RESTROOMS
B124, B126, H237, H239
Each to have:
Grab Bars, 36″, 42″, 18″
Soap Dispenser, Automatic
Semi-Recessed Combo Unit – Trash Receptacle and Paper Tower Dispenser, Automatic, Roll Paper
Baby Changing Station with Diaper Bag Hook
W.M. Door Stop

Each STALL to have:
Toilet Paper Dispenser
Seat Cover Dispenser
Sanitary Napkin Disposal (Women's only)
Purse Shelf (Women's only)
Urinal Shelf (Men's only)
Coat Hooks

BREAKROOMS
R122, F109, H233 and LAUNDRY R104
Each to have:
Paper Towel Dispenser
Soap Dispenser

SERVING KITCHEN
B130 and R101
(1) Each at each sink:
Paper Towel Dispenser, Manual, Roll Paper
Soap Dispenser, Automatic

NURSING ROOM / MOTHER'S ROOM – H244
Paper Towel Dispenser, Semi-recessed, Automatic, Roll Paper
Automatic Soap Dispenser
Tempered Mirror 24x48 (A)
Coat Hooks
Baby Changing Station with Diaper Bag Hook

PRIVATE OFFICES
Coat Hooks

MULTI-STATION OFFICES
Coat Hooks, multiple

End of Section 102800

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SECTION 113013

APPLIANCES

PART 1 – GENERAL

1. RELATED DOCUMENTS

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

2. SUMMARY

Section Includes:

2.1 Rough-in, preparation of space and millwork for appliances, and final connection of appliances. This applies to all appliances, including those that are:

A. Supplied by the Owner and installed by the Owner.

B. Provided by the Owner and installed by the General Contractor.

C. Provided by the General Contractor and installed by the General Contractor.

2.2 Procurement of appliances that are Provided and Installed by the General Contractor.

3. SCOPE OF WORK

This Scope of Work applies to all appliances described in the Summary of this specification. All work shall be performed as shown on the drawings and schedule.

3.1 General Contractor's Scope of Work includes procurement and installation of appliances.

3.2 General Contractor to provide "in wall" blocking for appliance items that are mounted to the wall.

3.3 General Contractor to make final connections where appliances are specified with electrical connections and/or plumbing connections.

3.4 Contractor shall verify selection and installation of appliances with Owner and Architect prior to any procurement activities by the General Contractor.

3.5 General Contractor shall coordinate millwork and equipment, and verify selection and installation of appliances to verify and confirm that each appliance will fit into the designated space(s).

3.6 General Contractor will install small appliances as required, and will ensure that the required space is available for each appliance.

Scope of Work includes, but is not limited to:

3.7 Field measurement to verify installation details, and locations of connections.

3.8 Scheduling, coordination with other parties (e.g. Owner, Contractors, and Architect, etc.), and making arrangements for building access.

4. PREINSTALLATION MEETINGS

Preinstallation Conference: Conduct conference at Project site.

5. ACTION SUBMITTALS

5.1 Product Data

For each type of product:

5.1.1 Include installation details, material descriptions, dimensions of individual components, and finishes for each appliance.

5.1.2 Include rated capacities, operating characteristics, electrical characteristics, and furnished accessories.

5.2 Samples

For each exposed product and for each color and texture specified, in manufacturer's standard size.

6. INFORMATIONAL SUBMITTALS

6.1 Product Certificates: For each type of appliance.

6.2 Sample Warranties: For manufacturers' special warranties.

7. CLOSEOUT SUBMITTALS

Operation and Maintenance Data

For each residential appliance to include in operation and maintenance manuals.

8. WARRANTY

Special Warranties

Manufacturer agrees to repair or replace residential appliances or components that fail in materials or workmanship within specified warranty period.

8.1 Warranty Period: Two (2) years from date of Substantial Completion.

PART 2 – PRODUCTS

9. MANUFACTURERS

Source Limitations: Obtain each type of residential appliance from single manufacturer.

10. PERFORMANCE REQUIREMENTS

10.1 County Preferred Vendor:

Tanner Erdman, AAA Restaurant Supply, (316) 265-4365, tanner@aaa-restaurant.com.

Products selected by the County and listed on the quote by the County Preferred Vendor are the Basis of Design products. All items shall meet or exceed the Basis of Design products shown on the Quote by the County Preferred Vendor.

10.1 Electrical Appliances

Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

10.2 Accessibility
Where residential appliances are indicated to comply with accessibility requirements, comply with applicable provisions in the DOJ's 2010 ADA Standards for Accessible Design.

PART 3 - EXECUTION

11. EXAMINATION

11.1 Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, power connections, and other conditions affecting installation and performance of residential appliances.

11.2 Examine roughing-in for piping systems to verify actual locations of piping connections before appliance installation.

11.3 Examine walls, ceilings, and roofs for suitable conditions where appliances will be installed.

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

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

12. INSTALLATION

12.1 Install appliances according to manufacturer's written instructions.

12.2 Built-in Equipment
Securely anchor units to supporting cabinets or countertops with concealed fasteners. Verify that clearances are adequate for proper functioning and that rough openings are completely concealed.

12.3 Freestanding Equipment
Place units in final locations after finishes have been completed in each area. Verify that clearances are adequate to properly operate equipment.

13. FIELD QUALITY CONTROL

13.1 Perform the following tests and inspections:

13.1.1 Perform visual, mechanical, and electrical inspection and testing for each appliance according to manufacturers' written recommendations. Certify compliance with each manufacturer's appliance-performance parameters.

13.1.2 Leak Test: After installation, test for leaks. Repair leaks and retest until no leaks exist.

13.1.3 Operational Test: After installation, start units to confirm proper operation.

13.1.4 Test and adjust controls and safeties. Replace damaged and malfunctioning controls and components.

13.2 An appliance will be considered defective if it does not pass tests and inspections.

13.3 Prepare test and inspection reports.

14. DEMONSTRATION

Engage a service representative to train Owner's maintenance personnel to adjust, operate, and maintain residential appliances.

15. APPLIANCE SCHEDULE

Appliance locations are identified on the Drawings.

APPLIANCE SCHEDULE

Appliances 'Provided By' and 'Installed By' the Owner:

TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	LOCATION			TOTAL
01	REFRIGERATOR ON CASTERS	True Manufacturing	T-49-HC	R101			1
02	FREEZER ON CASTERS	True Manufacturing	T-49F-HC	R101			1
06	KITCHEN MICROWAVE	Amana Commercial ACP	RCS10TS	R101			1
18	BREAKROOM MICROWAVE	Whirlpool – Stainless Steel	WMCS7022SZ	R122	F109	QTY: (2) H233	4
01	FUTURE MICROWAVE	SEE APPLIANCE TAG 06 OR TAG 18 PER LOCATION					
02	FUTURE DISHWASHER	SEE APPLIANCE TAG 04					

Appliances 'Provided By' the Owner and 'Installed By' the General Contractor:

TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	LOCATION			TOTAL
05	RANGE	Frigidaire	FCRC3022BS				2
07	WASHING MACHINE	Speed Queen	TC5003WN OR TR5006WN	QTY: (2) R104			2
08	CLOTHES DRYER	Speed Queen | ENERGY STAR	DR5004WE	QTY: (2) R104			2
10	VENDING MACHINE W/ CREDIT CARD OPERATION	COUNTY STANDARD- VERIFY SIZE W/ EQUIP LAYOUT	COUNTY STD	QTY:(2) R122	QTY:(2) F109	QTY: (3) H233	7
13	RELOCATE REFRIGERATOR			B130			1
14	RELOCATE FREEZER			B130			1
15	RELOCATE KITCHEN MICRO			B130			1
16	RELOCATE CHEST FREEZER			B130			1
17	RELOCATE REFRIGERATOR			F109			1
19	REFRIGERATOR W/ ICE KIT	WHRILPOOL – STAINLESS 21.3CF	WRTX7421TZ + ICE MAKER	R122		Qty (2) H233	3
22	UNDERCOUNTER REFRIGERATOR	Summit AL54	162-ALF4		H209		1

Appliances 'Provided By' and 'Installed By' the General Contractor:

TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	LOCATION			TOTAL
03	WARMING TROUGHS	ATLAS METAL	W I H - 2	R101			1
	STAND FOR DRAIN ACCESS	SELECT MODEL TO FIT CONDITION	VERIFY APPROX. 20"H				1
04	COMMERCIAL UNDERCOUNTER DISHWASHER	JACKSON WAREWASHING SYSTEM	DISHSTAR HT	R101		B130	2
	STAND FOR DRAIN ACCESS		M24STD-6				2
11	GARBAGE DISPOSER	SEE PLUMBING		R101		B130	2
12	RANGE HOOD	SEE MECHANICAL		R101		B130	2
20	REFRIGERATOR WITH LOCK	WHIRLPOOL – STAINLESS 12.9CF	WRT313CZLZ	R117		B118	2
21	LOCK FOR APPLIANCE TAG 20	MARINELOCK ON LOWER DOOR	LOCKITDOWN	R117		B118	2

County Preferred Vendor: Tanner Erdman, AAA Restaurant Supply, (316) 265-4365, email: tanner@aaa-restaurant.com.

End of Section 113013

SECTION 115000

SPORTS EQUIPMENT

1. GENERAL

All work included under this heading shall be subject to the General Conditions of the entire operation. The Contractor for this portion of the work is required to refer especially thereto.

2. WORK INCLUDED

The Contractor shall furnish all labor and materials necessary to provide and completely install the specified sports equipment.

2.1 Basketball Equipment (1 wall mounted, adjustable height, basketball goal)

2.2 Wall Pads

3. SUBMITTALS

Refer to Section 013300 "Submittal Procedures" where scope and description of Submittals to the Contract requirements are given.

4. QUALITY ASSURANCE

Approved Sports Equipment Distributors:

A. SOPA, Inc.
CJ Carey, Kansas Territory Manager, (316) 721-9462 office, (620) 440-1302 mobile, email: CJCarey@sopainc.com

B. ATHCO, LLC
Contact: Jennifer Hawkins, ATHCO Sales Representative
(913) 469-5600 Ext. 150 office, (913) 346-7618 direct line, email: jhawkins@athcollc.com

C. or approved equal.

5. BASKETBALL EQUIPMENT

6.1 General Contractor to provide and install Basketball goal as shown on Drawings, Sheets A6.10 and A6.11, per details included on Sheet A6.11.

Basketball goal is to be installed on the west wall of Gym B140.

6.2 Basketball goal shall be of a type and quality as stated here below.
Basketball goal, wall-mounted, height manually adjustable, precast anchored.

6.2.1 Basis of Design:
SWD Stationary Wall-Mounted Basketball Backstop with direct -mount goal brace, and steel tubing framing system, as manufactured by Draper, Inc., or approved equal.
Features:

A. Direct-mount goal brace.

B. Steel tubing frame system.

C. Includes 2 x 8 inch (3.81 cm X 18.42 cm) southern yellow pine wall pads at wall attachment points.

D. Includes 1/4-inch (6 mm) chain supports for units over 3 inches (91 cm) from the wall, with a height adjuster, and/or glass backboards.

6.2.2 Approved equal manufacturers include: ATHCO, AALCO, Bison, Gladiator, Goalrilla, Goalsetter, Jaypro, SNA Sports.

6. WALL PADS

Provide and install in locations in the Gymnasium as shown on the Drawings. Foam shall be a 6-lb. density bonded foam 2 inches thick with covering of a minimum 14 oz. vinyl. Pads shall be as shown on Sheets A6.10 and A6.11 of the drawings, and with two (2) alternating colors. Colors shall be as selected by the Architect. Each pad shall be two feet (2') wide by six feet (6') tall.

6.1 General Contractor shall provide furring and installation as required.

6.2 Provide shop drawings and samples to Architect. Final approval shall be by the Architect.

End of Section 115000

SECTION 120000

EQUIPMENT

1. GENERAL REQUIREMENTS

1.1 All work included under this heading shall be subject to the General Conditions of the entire operations. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 All requirements under Division One (1) of these specifications shall be a part of this section. Each Contractor is responsible to thoroughly familiarize himself with all its contents as to requirements, which affect this division or section.

2. WORK INCLUDED

This section of the specifications shall include the furnishing of all labor and materials as required with the installation of the following:

2.1 The Contractor will provide and install the specified items. Refer to Drawings for details and locations.

A. Janitorial Custodial Shelf and Mop / Broom Hangers

B. Adjustable Wall-mounted Adjustable Height Shelving

2.2 The following equipment will be provided by the Owner. The Contractor shall furnish all labor and materials necessary to completely install the following:

B. JRF Medical Room Equipment to support Exam Room(s)

C. Pencil Sharpeners

D. Televisions with Mounting Brackets

E. Ceiling-mounted Projector and Projector-mount Bracket

2.3 The following equipment will be provided by the Owner and installed by the Owner. The Contractor shall provide all necessary blocking and power for the following:

A. Copiers / Printers

B Vending Machines

C. Trash can in trash millwork cabinets
(Provided by Owner. Installed by Millwork Contractor. G.C. to coordinate size.)

D. Phones – Wall-mount and Desk-mount

2.4 Related Work:
For the following, refer to Section 101500 – Interior Specialties, this specification.

A. Motorized Projection Screens

B. Prescription Cabinets (in Lab and JRF Medical Room)

C. Key-Watcher Cabinet – Powered (Powered items shown on Elevation Drawings)

2.5 General Contractor to provide "in wall" blocking for cabinets, furniture, artwork, and signs that are mounted to the wall and / or ceiling.

2.6 General Contractor to make final connections where furniture, equipment, or fixtures are specified with electrical connections.

3. QUALITY OF MATERIALS

All materials of every kind which enter into the construction of this work shall be of the best obtainable in the market for use in the best grade of construction.

4. QUALITY OF WORKMANSHIP

All work that is to be performed under these specifications shall be done by the mechanics and artisans skilled in their respective trades. In order to produce first-class installation of the work.

4.1 Install all items in strict accordance with manufacturers' instructions.

5. SUBMITTALS

Submit Shop Drawings for colors, lay-out, dimensions, type of construction and materials as per Specification Section 01300 – Submittals.

Refer to Section 01300 – Submittals where scope and description of Submittals to the Contract requirements are given.

5.1 Shop Drawings and Product Data
Submit Shop Drawings and Product Data.

5.1.1 Show in detail the construction, gauges, jointing, methods of installation, fastening and supports, location and sizes of welds, anchoring, hangers, and other pertinent data and information. Submit details drawn to scale at not less than 1/4 inch per foot. Shop Drawings shall contain the design, type of steel and load assumptions.

5.1.2 Submit (2) complete color selection palettes for products specified of actual product.

5.1.3 Field verify all dimensions.

PART 2 – PRODUCTS

6. JANITORIAL CUSTODIAL SHELF AND MOP / BROOM HANGERS

The General Contractor shall provide and install Custodial Shelf and Mop / Broom Hangers.
Product selected to be approved by the Architect / Owner.

7. WALL-MOUNT ADJUSTABLE HEIGHT SHELVING

The General Contractor shall provide and install Adjustable Height Shelving.
Item: KV 182/82, Titanium. Refer to Drawing A7.5 for details and location.
Product selection to be approved by the Architect / Owner.

End of Section 120000

SECTION 120500

FURNISHINGS

PART 1 – GENERAL

1. GENERAL REQUIREMENTS

1.1 All work included under this heading shall be subject to the General Conditions of the entire operations. All work is subject to the terms published by the Sedgwick County, Kansas, Division 100 – General Conditions, and related documents. This Contractor is required to refer especially thereto.

In the event of discrepancy between these specifications and any documents published by Sedgwick County, documents by the Sedgwick County shall govern.

1.2 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

2. WORK INCLUDED

Furnish all labor and materials to complete all furnishings and related work shown on the drawings and/or herein specified, as follows:

2.1 Laminate Shelving – Mobile Racks

2.2 Epoxy-coated Wire Shelving – Mobile Racks

2.3 Custom Kitchen and Laundry Room Items – Stainless Steel

2.4 Mail Stations: See Millwork Section this specification

2. SCOPE OF WORK

This Furniture Contractor shall be responsible to provide and install the furnishings, and shall provide all labor and materials necessary to complete the project scope.

Scope of work includes, but is not limited to:

2.1 Management and installation of all furnishings for the project.

2.2 Shop Submittals, including fabric memo samples and mock custom finishes.

2.3 Ordering and field measurement, including units with custom color or finishes.

2.4 Receiving and storing of items off-site in a temporary, controlled, safe and secure environment.

2.5 Take delivery of all items, and unloading of all items.

2.6 Delivery and transfer to site, as necessary.

2.7 Unpacking of items, including proper disposal of debris off-site, and inspection of items.

2.8 Installation and assembly (where required to provide). All items shall maintain manufacturer's warranty, unless specified noting otherwise.

2.9 General Contractor will be responsible for providing all electrical connections and blocking, as required for each item. Items will be placed by other parties. General Contractor will be responsible for making final connections.

2.9.1 General Contractor to make final connections where furniture, equipment, or fixtures are specified with electrical connections.

2.9.2 General Contractor to provide "in wall" blocking for furniture, artwork, and signs that are mounted to the wall.

2.10 Field modification, where noted.

2.11 Scheduling, coordination with other parties (e.g. Owner, Contractors, and Architect, etc.), and making arrangements for building access.

2.12 Return and re-order any manufacturer-defective items, or damaged items within 18 weeks of discovery.

2.13 Coordination of Owner-provided items, if applicable.

2.14 Coordination with General Contractor and General Contractor's scope of work.

2.15 Post-Occupancy Evaluation, 12-month inspection for repairs covered by manufacturer warranty.

2.16 Training – Maintenance of Furniture and Fabrics

4. WORK NOT INCLUDED

The following are not included in the Scope of Work for this project:

4.1 Equipment, Appliances

5. REFERENCE STANDARDS

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only. Reference most current publication.

5.1 ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials. Refer to the most recent published edition.

5.2 ASTM International (ASTM)

5.2.1 ASTM D4157 (2013; R) Standard Test Method for Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method)

5.2.2 ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials

5.2.3 ASTM E1537 Standard Test Method for Fire Testing of Upholstered Furniture

5.3 BIFMA International (BIFMA)

5.3.1 ANSI/BIFMA X5.1 American National Standards – General Purpose Office Chairs

5.3.2 ANSI/BIFMA X5.3 (2007; R) American National Standards – Vertical Files

5.3.3 ANSI/BIFMA X5.4 American National Standards – Lounge Seating

5.3.4 ANSI/BIFMA X5.5 American National Standards – Desk Products

5.3.5 ANSI/BIFMA X5.6 American National Standards – Panel Systems

5.4 National Fire Protection Association (NFPA)

5.4.1 NFPA 101 (TIA 21-1) Life Safety Code

5.4.2 NFPA 260 Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture

5.5 36 CFR 1191Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act(ABA) Accessibility Guidelines

5.6 Underwriters Laboratories (UL)
UL 723 UL Standard for Safety Test for Surface Burning Characteristics of Building Materials

5. RELATED SECTIONS

5.1 Division 6 – Wood and Plastics
5.2 Textiles – Specifications on Cover Sheets

6. QUALITY OF MATERIALS

6.1 All materials of every kind which enter into the construction of this work shall be of the best obtainable quality in the market for use in the best grade of construction.

6.2 Basis of Design / County Preferred Vendor:
Tanner Erdman, AAA Restaurant Supply, (316) 265-4365, tanner@AA-restaurant.com.

Products selected by the County and listed on the quote by the County Preferred Vendor are the Basis of Design products. All items shall meet or exceed the Basis of Design products shown on the Quote by the County Preferred Vendor.

7. QUALITY OF WORKMANSHIP

All work that is to be performed under these specifications shall be done by the mechanics and artisans skilled in their respective trades, in order to produce first-class installation of the work.

7.1 Installer Qualifications
A company specializing in performing the work of this section with a minimum of three (3) years' of experience.

7.2 When required by the furniture manufacturer, furniture must be installed by an authorized dealer and a certified furniture installation crew must be used on the project. Installers / technicians must be: an Authorized Dealer, Certified Furniture Installers, Licensed Electrician(s), and Certified Telecommunications Installer(s).

7.3 Services provided for the reuse of existing furniture must comply with manufacturer's warranty requirements to maintain warranty. If warranty for existing furniture to be reused has expired, services must be completed by a furniture installation crew with a minimum of five (5) years' experience.

7.4 All furniture requiring hardwiring must be completed by a licensed electrician. Communications installers must be Building Industry Consulting Services International (BICSI) Registered Cabling Installers, Technician Level or have a minimum of three (3) year's experience in the installation of the specified cables and components. All installers, furniture, electrical and communications, must be on-site if questions arise.

7.5 Submit copies of authorized dealer, furniture installation crew, licensed electrician and certified telecommunications installer certifications.

8. APPROVED EQUALS

Furniture items shall be as specified, or shall be an approved equal, approved in writing by the Architect.

9. SUBMITTALS

Shop Drawings and Product Data Sheets: Submit Shop Drawings and Product Data

Submit product data for all furniture items, to include catalog cuts, brochures, product information, and other necessary literature to indicate compliance with specifications.

9.1 Submit (2) complete color selection palettes for products specified of actual product.

9.2 Field verify all dimensions.

9.3 Product Data: Provide specification sheets on products including model number, accessories and finishes.

9.4 Shop Drawings: Indicate dimensions and layout. Shop Drawings shall include the design, materials, fabrics, quantities, field modification, etc. for each unit.

9.5 Manufacturer's Instructions: Indicate clean and care instructions.

9.6 Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

9.7 Fabric and Finish Submittals
Submit samples of all furniture fabric and finishes. Samples must be actual samples, not photographic representations, size must be a approx. 3 x 3 inches. If necessary, provide larger size samples to clearly represent pattern. Label samples with fabric or finish code, furniture item code and name, manufacturer name, and color information. Fabric samples must also be labeled with fiber content and double rub-testing information.

10. SUMMARY OF FURNITURE PURCHASE

10.1 Refer to Drawings, and applicable Legends on Drawing. Confirm product selections with architect prior to placing order.

11. DELIVERY, STORAGE, AND HANDLING

11.1 Deliver furniture, products and equipment in manufacturer's original unbroken packaging designed and constructed to protect the contents from physical or environmental damage. Protect furniture with original manufacturer's packaging.

11.2 Furniture Inspection
Inspect furniture and provide notification of damage within the timeframe required by the shipping company, while carrier is still on-site. Complete claims for concealed damage within the timeframe required by the shipping company and furniture manufacturer. A claim file must be maintained that documents each claim. Forward copies of claims to the Furniture Contractor on a timely basis, not exceeding 30 days after discovery.

11.3 Clearly and Fully Mark: Identify as to manufacturer, item, and installation location.

11.4 Handle products or equipment in accordance with these specifications and manufacturer's recommendations and instructions.

11.5 Store materials in accordance with manufacturer's recommendations and requirements of these specifications.

11.6 Make necessary provisions for safe storage of materials and equipment. Store in accordance with manufacturer's requirements. Do not store furniture in a manner that could crush the packaging.

If storage is required, furniture must be stored in a dry location that is adequately ventilated and free from dirt and dust, water, and other contaminants, in a manner that permits easy access for inspection and handling, and in an environment in accordance with furniture manufacturer's instructions.

11.7 If it is determined by the County that storage space not available on-site, and furniture must Be stored at an off-site location, Furniture Contractor shall provide any storage space Required for furniture, and transport stored furniture to the project site for installation. Storage location must be approved by the City of Wichita at the time of the furniture order.

11.8 Coordinate location of the furniture staging area off site.

11.9 Maintain uniform temperature of minimum of 60 degrees F (16 degrees C) and maximum humidity of 60 percent prior to, during and after installation.

12. WARRANTY

Provide manufacturer's warranty against manufactured defects in products.

12.1 Furniture Contractor shall correct defective work within eighteen (18) weeks after the date of substantial completion.

12.2 Certificates or registration stubs shall be included with the shop drawings submitted for the Owner upon completion of the work. The Furniture Contractor's responsibility stipulated in the paragraph before this one, terminates as stipulated therein. The Owner shall administrate manufacturer's warranties/guarantees thereafter.

12.3 Standard guarantee forms are to be provided by the manufacturer for the product specified. The Furniture Contractor shall fill out forms and file with the manufacturer for the Owner.

12.4 Provide manufacturer performance guarantees or warranties for single-shift service and include parts, labor, and transportation.

12.5 Provide items not listed with a 1-year minimum warranty. When manufacturer's standard performance guarantees or warranties exceed the minimum requirements identified, provide the standard performance guarantee or warranty. Submit manufacturer's warranty information for all furniture items.

PART 2 – PRODUCTS

Bidder to install the products listed. Provide Furniture that complies with applicable testing methods for furniture and flammability.

13. MAIL STATIONS

Provide and install three (3) Mail Stations in Work Rooms H231 and H268, in accordance with Drawings. See Drawings, elevation on A6.18. Mail Stations are 36-inch width sections. Countertop at Mail Stations will be by millwork contractor.
Refer to product sheets following this section.

13.1 Approved Product Line:
Action Office System Components, as manufactured by Herman Miller, or approved equal.
Herman Miller, 855 E. Main Avenue, Zeeland, Michigan; phone: 1-888-798-0202

3.1.1 Approved Distributor: John Marshall Co., Wichita, Kansas
Contact: Jennifer Drace, phone: (316) 260-0121, email: JDrace@jamarshall.com

13.2 Mail Station Components include, but are not limited to the following:

Wall Strips model # AO213

Rail Tile model # A3615

B-Style Flipper Door Unit model #s A3352 and A3353

Squared-Edge Rectangular Work Surface model # A2310

Tackboards B-Style Tackboard model # A3410

Lateral Storage

Overhead Storage

Workstations,

Paper Tray(s)

Storage Case(s)

Other components as required by owner / architect.

14. LAMINATE SHELVING – MOBILE RACKS

Provide and install H.D. Mobile racks in accordance with Drawings.

15. EPOXY-COATED WIRE SHELVING – MOBILE RACKS

Provide and install Epoxy coated Wire shelf Mobile Racks in accordance with Drawings.

16. METAL SHELVING

Provide and install metal shelving and plywood-backed metal shelving in accordance with Drawings.

17. CUSTOM SERVING KITCHEN ITEMS – STAINLESS STEEL (R102 and B131)

17.1 Provide and install Custom Serving Kitchen Items in accordance with Drawings.
Serving Kitchens R102 and B131 each to have:

A. Stainless Steel Door Base Cabinet

B. Stainless Steel Counter with plywood backer (R102 only)

C. Freestanding Stainless Steel Table with power boxes (B131 only)

D. Wall-mounted Stainless Steel Metal Shelves, varied lengths
(remove metal shelving from item 16 above??)

17.2 Contact: Tanner Erdman, AAA Restaurant Supply, (316) 265-4365
Email: tanner@AA-restaurant.com

PART 3 – EXECUTION

18.1 Execution – General

18.1.1 The approved Furniture Contractor shall be familiar with details of the work, inspect all areas and conditions under which furniture is to be installed, and coordinate scheduling of delivery. Notify the Owner and Architect in writing of any conditions detrimental to the proper and timely completion of the installation. Work will proceed only when conditions have been corrected.

18.1.2 Building Protection
Protect building surfaces to prevent soiling and damage during delivery and installation. Any soiling and damage that occurs to the building during the installation of furniture must be cleaned and repaired, or replaced to its original condition and must be approved by the Owner.

18.2 Installation

18.2.1 Installation Drawings
Installation drawings must include furniture layout, critical dimensions and locations of electrical and communications. Reflect field verified conditions in furniture layouts.

Drawings must be to scale, unless otherwise specified. Provide typical plans and isometrics/elevations of desks and workstations.

18.2.2 Furniture Installation Procedures
Complete installation in accordance with manufacturer's installation instructions, assembly manuals, warranty requirements, and approved installation drawings. Also comply with the following requirements:

A. Use material handling equipment with rubber wheels.

B. Furniture and components must be installed level, plumb, square, and with proper alignment with adjoining furniture.

C. Check drawers, doors, lighting, and other operable items and mechanisms for proper operation.

D. Remove all protective wrapping tape, residue, and related type items.

E. Securely interconnect furniture components where required.

F. Securely attach and anchor furniture components to the building, when required.

G. Securely anchor furniture such as shelving and storage units to the building when required by the manufacturer.

H. All items with an electrical plug, such as but not limited to task lighting and tables with electrical power, must be fully operational.

I. All hardwired furniture, such as but not limited to furniture systems, must be fully operational. Verify that voltage is present in electrical outlets. Verify controlled-circuit outlets are properly configured in accordance with the installation drawings.

J. Furniture must not block jacks or the jack enclosures on walls. Report conflicts to the Owner and Architect, to discuss resolution.

K. Upon completion of installation, all furniture must be completely cleaned, finished, leveled, aligned, operational and functional.

19. Cleaning

Remove all packing materials and other trash from the jobsite. General Contractor will provide trash bins for a limited time. Coordinate in advance.

Upon completion of installation, all products must be clean, including inside all drawers and doors, and the area must be free of debris and left in a clean and neat condition. Any defects in or damage to furniture must be repaired or replaced and approved by the Owner and Architect. Damaged products that cannot be satisfactorily repaired must be replaced. Correct any problems with assembly and installation. Prior to any furniture repair, replacement, and/or assembly and installation corrections, protect the building surfaces.

20. Operation and Maintenance Manuals

Submit the Furniture Package in accordance with this specification, and include the following:

20.1 Assembly Manuals: Describe assembly and re-configuration procedures.

20.2 Installation Instructions

Provide a copy of the instructions used to install the furniture. Also describe any special procedures or helpful hints learned during the installation process.

20.3 Maintenance Manuals

Describe proper cleaning and minor repair procedures, include cleaning instructions for fabrics.

20.4 Special Tools

Provide three (3) sets of special tools necessary for assembly and disassembly of furniture and components from each manufacturer. Mark tool(s) with manufacturer and product information.

20.5 Furniture Drawings

Provide hard copy and electronic, showing installed furniture layout. Include all modifications. Provide electronic copies on a CD-ROM. Coordinate type (such as AutoCad 2D) and version required with Architect.

Include critical dimensions, and locations of building and furniture electrical and communications. Code all furniture with furniture item code identified in this specification.

20.6 Furniture Listing
Provide complete listing, hard copy and electronic, of furniture provided. Include all modifications. Provide electronic copies on a CD-ROM. Coordinate type of electronic file required with User (such as but not limited to Word and Excel).

Listing must include furniture item code used in the list of Furniture Quantities, item description, part / model numbers, fabrics and finishes for all components furnished. Organize listing by item name and code and provide building totals.

20.7 Order Form Documentation
Provide Order Form Documentation with Purchase Order number and project name and location to allow the Owner to follow up on warranty issues, and help with future purchases.

End of Section 120500

SECTION 260000

BASIC ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to all Sections of Division 26, 27, and 28. All of the electrical related work required for this project (unless noted otherwise) is a part of the electrical contract price and is not necessarily specified under Division 26, 27, 28 or shown on the electrical drawings. Therefore, all divisions of this specification and all drawings shall be consulted. The more stringent requirement of this specification (or drawings) shall be followed; regardless of what division or section the more stringent requirement resides.

1.2 SUMMARY

A. This Section includes the following:

a. Related Documents.
b. Summary.
c. References.
d. General.
e. Submittal Information.
f. Quality Assurance, Regulations, and Codes.
g. Coordination.
h. Permits and Fees.
i. Electrical demolition.
j. Renovation and Remodel.
k. Cutting and patching for electrical construction.
l. Painting.
m. Aligning, Adjusting and Testing.
n. Substitution of Equipment.
o. Materials Approved as Equal.
p. As-built Drawings.
q. Operating Instructions, Brochures, and Manuals.
r. Punch-list and Final Inspection.
s. Guarantee.

1.3 REFERENCES

A. The latest edition of the following standards and codes, standard publications of professional organizations, and the local authorities having jurisdiction are the minimum requirements for this work.

a. American National Standards Institute (ANSI).
b. American Society for Testing and Materials (ASTM).
c. Association of Edison Illuminating Companies (AEIC).
d. Code of Federal Regulations (CFR).
e. Insulated Cable Engineer's Association (ICEA).

f. Institute of Electrical and Electronic Engineers (IEEE).
g. National Electrical Manufacturer's Association (NEMA).
h. National Fire Protection Association (NFPA).
i. NFPA 70, the National Electrical Code (NEC).
j. Underwriters' Laboratories, Inc. (UL).
k. State, City, and Local Authorities.

1.4 GENERAL

A. The Electrical Contractor shall furnish all labor; materials, tools, transportation, equipment, services and facilities, required for the complete and proper installation of all electrical work specified within the contract documents. The electrical installation shall include all materials, devices, apparatus, and equipment as specified herein, as shown on the drawings, AND as required for a complete and operational system.

B. Experienced, qualified, licensed electricians shall install the entire electrical system in a first class, workmanlike manner. The electrical system shall be left completely connected and ready to give continuous, trouble-free service.

a. TO ENSURE THAT ONLY QUALIFIED AND RESPONSIBLE BIDS ARE CONSIDERED, SUBMIT THE FOLLOWING INFORMATION ATTACHED TO THE BID FORM:
b. List the date of your company's incorporation, and the state of which the company is incorporated. List the number of years in business under current corporate name.
c. List your company's President, Vice-President(s), Treasurer's, and Secretary's names.
d. List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers of company and all personnel who plan to work on this project.
e. List the category of work your organization normally performs with its own forces.
f. Claims & Suits: List any judgments, claims, arbitration proceedings, suits, or disputes (previous or ongoing) against your organization or its officers. List any arbitration proceedings or suits (previous or ongoing) that your organization has filed with regard to construction contracts within the last five years.
g. List, within the last five years, any officers of your organization that were officers of another organization that failed to complete a construction contract.
h. List the name of the job foreman that will be assigned to this project and include his/her work history with the company and with any previous companies. List this persons construction experience and present commitments of other projects. List any other key individuals of your organization who will be assigned to this project.
i. List a minimum of Five (5) previous projects of similar size and characteristics to this project, which were completed by your organization and the foreman listed above. Provide the name of each project, owner, architect, contract amount, project location, and the date project was completed.
j. List all major construction projects that your organization has in progress, giving the name of project, owner, architect, contract amount, percent complete and scheduled completion date.
k. State the total amount of work in progress and under contract by your company at time of submitting bid for this project.

l. State average annual amount of construction work performed during the past five years.
m. References: Provide a minimum of Three (3) Trade References.

C. The electrical drawings are shown in a schematic form (unless specifically dimensioned) and are intended to show only the approximate locations of devices, and equipment. This does not grant the contractor permission to locate devices and equipment as he sees fit.

a. Exact equipment locations, device placement, and conduit routings are not specified on the drawings (unless dimensioned) and shall be governed by structural conditions, ceiling/wall panel spacing, base cabinets, permanent furniture and other obstructions.
b. Full coordination of all work and consultation of all drawings shall be required to avoid possible interference with other trades. The architectural plans shall be consulted to determine space availability for electrical equipment prior to rough in.
c. The Architect reserves the right to make any reasonable change in the location of apparatus, outlets and equipment up to the time of rough in, without any additional expense to the Owner. *Relocating a receptacle outlet 6ft. in any direction is considered a reasonable change.*

D. Any damage to the building or elements of the building including other trades work (accidental or intentional) caused by or originating from the Contractor shall be repaired at the cost of the Contractor.

E. All electrical components shall be installed per the respective manufacturer's installation instructions.

1.5 SUBMITTAL INFORMATION

A. The Electrical Contractor shall submit electronic submittals in PDF format which shall include the following information:

a. On front cover provide the name and address of the Project, the Architect, the Engineer, and the Contractor. List the name and telephone number for the Electrical Contractor assigned to the project.
b. Adequate description(s) of product submitted – Manufacturer's name, catalog number, technical data, shop drawings, pictures, etc. Include wiring diagrams, photometries, and test reports as required.
c. Instructions for the operation and maintenance of the equipment prepared by the manufacturer.
d. Complete parts list for each equipment item.
e. Clearly marked catalog logic indicating mounting, finishes, capacities, sizes, options, etc.
f. Identification mark or nomenclature relating each submitted item to the drawings (when applicable). For example, Panel "A", Light Fixture Type "B", or Special Outlet No. 1.

B. The submittal review performed by the Architect-Engineer shall not include verification or approval of quantities indicated on the submittal. All submittal approvals relate to the product's conformance with the contract documents only.

C. All submittals must be reviewed, verified, and approved by the ELECTRICAL contractor before the Architect or Engineer will review same. Submittals reviewed and stamped by the General Contractor only, will be returned. The ELECTRICAL contractor's stamp and signature on each submittal shall indicate the Contractors review. The Contractor shall return all submittals, which do not meet the specifications, to the supplier for correction before submitting to the Engineer or Architect. Only those materials specified, approved, or otherwise indicated by the contract documents will be permitted on this project.

D. The Architect-Engineer's submittal approval will not relieve the Contractor from his responsibilities to full-fill the contract documents. All deviations from the contract documents associated with submittals must be called to the Engineer's attention at time of submission and must also be approved by the Owner or his representative.

E. Shop drawings shall be submitted on wiring devices, conduit, boxes, wire, light fixtures (includes LED drivers, ballasts & lamps), light poles, switchgear (includes distribution and branch circuit panelboards, starters and disconnects), and all special systems (fire alarm, intercom, clocks, sound, security, telephone, data, etc.). Refer to each respective division 26 section for additional submittal requirements.

F. Electronic Autocad files (.dwg) may be made available to the successful contractor for the sole purpose of creating submittal drawings related to this project. The Contractor shall execute a Cad Release agreement and submit a fee equal to $100 per drawing sheet, prior to receiving the files.

1.6 QUALITY ASSURANCE, REGULATIONS, & CODES

A. All Electrical Components, Devices, Equipment, and Accessories installed under this contract shall be listed and labeled by Underwriters Laboratories, Inc. (UL). Materials, which are not covered by UL shall be listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use. The Architect/Engineer must specifically approve materials that do not carry the UL label.

B. All Electrical Components, Devices, Equipment, and Accessories installed under this contract shall be of the brand(s) specified herein, or approved as an equal by the Architect/Engineer within the contract documents. All materials and equipment furnished shall be new, free from defects, and of current production. Materials and equipment, which are no longer being produced, will not be acceptable.

C. Each class of materials or equipment shall be of a single manufacturer. Do not intermix manufacturers of the same class of equipment. Manufacturers of all equipment shall have a permanent service organization, which will respond with service via telephone within 2 hours of request and in person (if necessary) within 24 hours of request.

D. All electrical equipment and materials shall be received and stored by the Electrical Contractor in a manner which will protect the equipment and materials against physical damage, dirt, moisture, grease, etc. Conduit shall be kept closed and free of foreign objects.

E. All electrical work shall comply with the latest rules and regulations of the National Electrical Code (NFPA 70), the Americans with Disabilities Act (ADA), the local ordinances (City, County, and State), the local utility companies and all other Boards, Codes, and Departments

having jurisdiction. The electrical installation shall be performed in accordance with the latest Rules and Regulations of the Occupational Safety and Health Act (OSHA).

F. All electrical work and material shown on the drawings or specified herein, which is determined to be in direct conflict with a code requirement or local ordinance, shall be provided and installed to meet the code or local ordinance. However, all electrical work indicated in the contract documents, which is determined to be in excess of code requirements or local ordinances, shall be performed as specified in the contract documents. Any deviations made from the plans and specifications in order to conform to codes, ordinances, laws, rules, or regulations shall be approved by the Architect and be made with no cost increase to the Owner. In cases where two or more codes have different levels of requirements (regarding the same topic), the more stringent code shall apply.

1.7 COORDINATION

A. The electrical contractor shall visit the site and examine all existing conditions, which may affect work under his contract prior to bidding. Failure to visit the site and determine existing conditions is not a basis for additional compensation.

B. Coordinate chases, slots, inserts, sleeves, and openings with general construction work and arrange in building structure during progress of construction to facilitate the electrical installations that follow.

   a. Set inserts and sleeves in poured-in-place concrete, masonry work, and other structural components as they are constructed.

C. Sequence, coordinate, and integrate the installation of electrical materials and equipment for efficient flow of work among all other trades. Perform work in such an order that there will be no unnecessary delays or interference with other trade installations. Coordinate the installation of large electrical equipment requiring positioning before closing in the building. Coordinate closely with the Mechanical Contractor to allow for a clean and neat installation of conduit, cable tray, light fixtures, devices, plumbing, mechanical equipment, mechanical duct work, etc. above ceilings and in other concealed locations.

D. Coordinate service connections to components and systems furnished by utility companies.

   a. Coordinate installation and connection of exterior underground and overhead utilities and services, including provision for electricity-metering components with the utility company.
   b. All electrical service entrance equipment and work shall comply with requirements of authorities having jurisdiction and of utility company providing electrical power.
   c. The electrical contractor shall bear all expenses for the installation of the temporary and permanent electrical service to the building. These expenses include concrete filled guard posts around transformers and the installation of pedestals (when required by local utility company). The Electrical Contractor shall also pay for all deposits and reimbursements required for the service to the building.
   d. The electrical contractor shall coordinate and bear all expenses involved in the complete telephone, internet, cable TV service conduit installations (include pull wire) per respective utility company requirements.

E. Coordinate location of access panels and doors for electrical items that are concealed by finished surfaces. Access doors and panels are specified in Division 8 Section "Access Doors."

F. Where electrical identification devices are applied to field-finished surfaces, coordinate installation of identification devices with completion of finished surface.

G. Where acoustical ceilings and similar finishes will conceal electrical identification markings and devices, coordinate installation of these items before ceiling installation.

1.8 PERMITS AND FEES

A. The Electrical Contractor shall pull all permits required for this project. He shall pay for all fees related to the certificates, permits, licenses, and inspections.

   a. These items must be submitted to the Architect before final acceptance of the project is granted.

1.9 ELECTRICAL DEMOLITION

A. Demolish (disconnect and remove) all electrical items as noted or shown on the drawings back to source. Sequence work with other trade demolition.

B. The Electrical Contractor shall be responsible for all electrical demolition associated with architectural, structural, and mechanical demolition of this project. Refer to the architectural, structural and mechanical plans and specifications for areas/items required to be demolished. Verify all questionable electrical items with the General Contractor prior to demolition.

   a. Remove all existing electrical equipment, devices, conduit, conductors, etc. associated with areas/items of demolition back to source.
   b. Cut and cap abandoned raceways, which can not be entirely removed due to concrete encasement or other inaccessibility. Provide blank plates as required and/or patch to match existing adjacent surface(s).

C. Remove all demolished electrical material from the site periodically to prevent damage to new equipment or injury to personnel.

D. The Owner shall reserve the right to salvage any and all electrical components, which are removed by the Electrical Contractor during the demolition phase (unless specifically noted otherwise).

   a. Coordinate with the Owner or his authorized representative prior to commencing with the demolition phase and verify which items are to be salvaged and returned to the Owner.

1.10 RENOVATION AND REMODEL

A. The Electrical Contractor shall fully familiarize himself with the existing systems (electrical power, fire alarm, intercom, security, telephone, computer networking, sound, clocks, bells, etc.) of the building to be renovated or remodeled.

   a. Consult existing system manufacturers for ALL interconnection requirements between new devices and existing systems. Verify all required parts, prior to

bidding the job and notify the Architect/Engineer of all conflicts such as capacity, availability, or obsolescence.

b. The Electrical Contractor shall be responsible for providing and installing ALL components necessary to interconnect new devices to existing systems even though not specifically shown on the drawings or called out in the specifications.

B. The Electrical Contractor shall be responsible for properly supporting (per N.E.C.) ALL existing conduit and cable encountered during the renovation process.

C. Relocate all existing electrical items as shown on the drawings or as required by the Architect to facilitate work by other trades.

a. Relocate switches, fixtures, outlets, boxes, conduit, panelboards, and all other electrical components in order to meet the intent of the architectural plans (for example, relocate items where new doors are installed in existing walls).
b. Consult system manufacturers for specific requirements when applicable.
c. Provide and install all components required for the relocation of all electrical items (wire, cable, conduit, boxes, coverplates, fasteners, etc.).
d. Relocate all "special systems" components as required. For example, if a reception or office area is being relocated, all of the special systems associated with that area shall be relocated to the new reception or office.

1.11 CUTTING & PATCHING

A. The Contractor shall be responsible for cutting and/or patching any building material necessary to complete the installation of the electrical system.

a. Use a "Concrete Termite" drill or "core" drill when drilling through concrete. Do not use a "hammer drill", "air hammer" or "star drill".
b. Use "link-seal" products by Thunderline Corporation after drilling through exterior basement or foundation walls.

B. Qualified workmen of the trade involved shall do all cutting and patching.

C. The Electrical Contractor shall pay for cutting and patching due to Electrical Contractors failure to coordinate at the time of rough in.

1.12 PAINTING

A. All electrical raceways and equipment installed in finished areas (defined by the Architect) shall be painted in accordance with division 9 "painting" section (unless directed otherwise by the Architect).

B. All electrical equipment requiring touch-up painting due to shipping and handling abuse or any other reason shall be painted to match the adjacent surface (color and quality).

1.13 ADJUSTING, ALIGNING AND TESTING

A. The Electrical Contractor shall keep a calibrated voltmeter, ammeter, ground test meter, infrared scanner, and megohm meter on site and available at all times during construction hours. Provide test readings as required by these specifications and as requested by the Engineer.

a. The electrical load shall be distributed equally across all phases from the service entrance equipment down to the smallest branch circuit panelboard. Keep a record of all adjustments and submit final voltage and amperage readings (each phase) to the Architect.
b. After the project is substantially completed, perform dielectric testing in accordance with the requirements of the National Electrical Code. The entire system shall test out to be free from short circuits and open circuits.

B. Check, align, and adjust all components of the electrical system for optimum performance. Perform all tests required by these specifications – refer to each division 26 section for specific test requirements

C. The Owner reserves the right to conduct independent Acceptance Tests on the electrical system as he sees fit. These tests, if performed, will be used to determine compliance of these specifications and will be conducted in the presence of the Architect/Engineer and Contractor. Notification of these independent tests will be given a minimum of five (5) working days prior to execution. The contractor shall correct all deficiencies in materials and workmanship revealed by the Acceptance Tests.

1.14 SUBSTITUTION OF EQUIPMENT

A. After execution of the contract, substitutions of equipment manufacturers and/or material manufacturers shall be permitted only when the equipment and/or material specified cannot be delivered to the job in time to complete the work in proper sequence.

a. Any delay must originate beyond the control of the contractor; otherwise the substitution will not be approved.
b. The Electrical Contractor must make substitution requests in writing. Written requests shall be accompanied with documentation from the specified manufacturer and from the proposed manufacturer indicating equality, differences in price, and differences in delivery dates.
c. The Owner shall receive all credits associated with the approved substitution via change order.

1.15 MATERIALS APPROVED AS EQUAL

A. All materials used for this project shall be provided as specified (manufacturer's name and model number) unless changes to the contract documents are formally made by written addendum prior to the opening of bids.

1.16 AS-BUILT DRAWINGS

A. Prepare two (2) sets of blue-line or black-line electrical drawings showing in red ink ALL changes or deviations made from the original plan design. These changes marked in red ink shall also include all addendum items, change orders, etc.

a. These drawings shall be clean, neat and without tears or stains. Do not use the field set of drawings as these required As-Built drawings.
b. These drawings are to be submitted to the Engineer for review and will be forwarded to the Owner for his future reference.

1.17 OPERATING INSTRUCTIONS, BROCHURES, AND MANUALS

A. The Electrical Contractor shall submit ALL operating instructions, brochures, instruction sheets, and manuals, which are provided with (or available with) new equipment to the Architect for transmittal to the Owner. Provide this information in a neat, organized format and present the information in a 3-ring binder. Label the front cover with the follow information:

   a. "Electrical Operating Instructions, Brochures, and Manuals for Facility Systems"
   b. Project Name and Address
   c. Name and Address of Architect
   d. Name and Address of Engineer
   e. Name and Address of Contractor
   f. Contractor's Telephone Number (including emergency number).

B. Save all adjusting tools, wrenches, keys, etc. which may be provided with new equipment, and submit to the Architect for transmittal to the Owner.

C. The Electrical Contractor and/or special systems sub-contractor shall also provide full explanation (as well as any written material) to the Owner regarding the operation, maintenance, and care of each special system. Special systems include Fire Alarm, Intercom, Clock, Sound, Intrusion Detection, Cable TV, and Voice/Data.

1.18 PUNCH-LIST AND FINAL INSPECTION

A. An initial inspection will be performed upon written notification from the Contractor indicating that the job is complete. The Engineer will generate a punch-list after the initial inspection. This punch list will be transmitted to the contractor for execution.

   a. The Electrical Contractor shall be present for the initial inspection and shall provide all tools, ladders, meters, instruments, etc. required for a complete and thorough inspection (removal of coverplates, panelboard covers, ceiling tiles, etc.).

B. A Final Inspection by the Engineer will be performed after the contractor has executed all punch-list items.

   a. The intent of the Final Inspection is for the Contractor and Architect-Engineer to verify that the completed project is in conformance with the contract documents.
   b. The Electrical Contractor shall be present for the Final Inspection and shall again provide all tools, ladders, meters, instruments, etc. required for a complete and thorough inspection (removal of coverplates, panelboard covers, ceiling tiles, etc.).
   c. Additional inspections by the Architect-Engineer due to incomplete or incorrect work will be charged to the Contractor at an hourly rate of $120.00 per man-hour.

1.19 GUARANTEE

A. This Contractor shall guarantee the entire electrical installation for a period of one (1) year. The one-year period will start on the date of final completion and acceptance (by the Architect).

   a. Should defective or faulty parts, components, equipment, etc. become evident within this one-year period, the Electrical Contractor shall correct and/or replace the defective component without cost to the Owner.
   b. In addition to defective components, the Electrical Contractor shall also guarantee the installation of the electrical system. The electrical work associated with this

project is guaranteed by the Electrical Contractor to be first-class, executed by experienced workmen, and installed to comply with the contract documents. The Electrical Contractor shall correct all areas of the building showing poor workmanship or incomplete installations (such as loose joints & connections involving the raceways & conductors).

PART 2 - PRODUCTS (not applicable)

PART 3 - EXECUTION (not applicable)

End of Section 260000

SECTION 28 50 00 - EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM (BDA SYSTEM)

1.1 EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM (BDA SYSTEM)

A. General

1. Provide an in-building radio signal amplification system to provide complete coverage in the building for the public safety agencies as required by the local AHJ (Authority Having Jurisdiction). System users shall receive and transmit radio signals from their portable radio units within the building. This shall be accomplished utilizing the following components:
   a. Bi Directional Amplifiers (Signal Boosters)
   b. Coaxial Cable
   c. Antennas
   d. Cable taps
   e. Connectors
   f. Power dividers
   g. Other components and interconnecting circuitry as required

2. The system shall comply with the requirements of UL2524 In-building 2-Way Emergency Radio Communication Enhancement Systems, NFPA 72 2013 Edition, NFPA 1221 2016 Edition and IFC 2015, as referenced.

3. The entire system shall meet the requirements of the Fire Department, the Building Department and all other agencies and authorities having jurisdiction (AHJ).

4. The work in this section shall include the responsibility for all permit requirements with the AHJ. Where filings require engineer's signature, documents shall be submitted for his review and signature. This responsibility shall include furnishing of required quantities of floor plans, descriptive notes and/or specifications, wiring diagrams, shop drawings and amendment forms.

5. Early completion of the in-building emergency radio communication enhancement system will be required as to permit a Certificate of Occupancy to be obtained in a timely manner

6. Any permits necessary for the installation of the work shall be obtained prior to the commencement of the work. All permit costs and inspection fees shall be included

7. The in-building emergency radio communication enhancement system shall use a UL2524, NFPA 72, NFPA 1221 and IFC 2018 compliant NOTIFIER signal booster or approved equal.

B. Design requirements

1. In-building emergency radio communication enhancement systems for emergency responders are an integral component of the life safety equipment of a building or structure. The primary function is to provide reliable emergency responder communications at the required signal strength within the specified areas.

2. Critical Areas such as emergency command center, mechanical rooms, exit stairs, exit passageways, elevator lobbies, standpipe cabinets, sprinkler sectional valve locations and similar critical areas shall be provided with 100% floor area radio coverage.

3. General building areas shall be provided with 95% radio coverage, or as specified by AHJ.

4. The In-building emergency radio communication enhancement systems must provide the following signal strengths:
   a. Downlink - Minimum signal strength of -95 dBm throughout the coverage area.
   b. Uplink - Minimum signal strength of -95 dBm received at the AHJ Radio System.
   c. OR As otherwise required by the AHJ

5. The system shall be complete with all components and wiring required for compliance with all applicable codes and regulations, and for its operations described hereinafter.

6. An approved manufacturer or a qualified and approved vendor shall supply, test and determine locations of components which are required for proper operation as well as to supply, install, test and certify the performance of the complete system. Vendor qualifications must be acceptable to the AHJ.

7. Design shall include iBwave software-simulated radio propagation modeling with heat maps showing predicted signal coverage levels within the building. The iBWave design shall be done by iBWave certified personnel.

8. All tests shall be conducted, documented, and signed by a person in possession of an FCC General Radio Telephone Operators License. All testing personnel shall be certified and authorized by the signal booster manufacturer in the installation and operation of their equipment. Personnel qualifications must be acceptable to the AHJ.

9. The system design shall be based on the NOTIFIER line of Public Safety Signal Boosters UL2524, NFPA 72, NFPA 1221, IFC and FCC certified to establish standards of quality for materials and performance. The naming of a specific manufacturer or a catalog number

does not waiver any requirement or performance of individual components described in the specifications.

10. Assembly and installation of all components of the Emergency Responder Radio Communication Enhancement System shall comply with all applicable sections of the National Electrical Code.

11. Survivability from attack by fire shall meet requirements of NFPA 72, NFPA 1221, IFC or as required by the local jurisdiction.

12. The system must comply with all applicable sections of the FCC rules. Signal booster shall have FCC certification prior to installation.

13. Antenna isolation shall be maintained between the donor antenna and all inside antennas (D.A.S.) to a minimum of 20dB under all operating conditions

C. Technical Specifications and Performance Requirements

1. The system specified shall be based upon NOTIFIER line of Public Safety UL2524, NFPA72, NFPA 1221, IFC compliant signal boosters

2. The signal booster shall be a Class B Public Safety type as designated by the FCC or as required by the AHJ.

3. The secondary power supplies, battery chargers and system monitoring shall be fully compliant with NFPA 72, NFPA 1221 and IFC. The signal booster shall have both the primary and the secondary power supplies within a waterproof, type-4 approved enclosure.

4. All signal boosters and other active system components must have FCC certification prior to installation. The equipment FCC ID must be shown on the product datasheets and technical submittals. The ID must also be displayed on the product as required by the FCC.

5. The signal booster shall be pre-set by the equipment manufacturer for the frequencies specified by the AHJ. Field tuning of RF filters and duplexers is not allowed.

6. UHF and VHF signal boosters shall be band selective type with a maximum 3dB channel bandwidth of 200KHz (Fc +/- 100KHz) per band. Non-selective wide-band signal boosters shall not be accepted, unless required to cover multiple channels within the same band.

7. Signal Boosters shall have oscillation suppression circuitry to protect the public safety radio system in case of system malfunction or other causes. The oscillation suppression circuit shall not disable the system operation. Systems that automatically disable the signal booster upon oscillation detection shall not be allowed.

8. Signal Boosters shall have uplink noise suppression function to eliminate uplink noise while in standby (i.e. no radio transmission from within a building). Systems that produce any measurable level of uplink noise while in standby shall not be allowed.

9. Signal Booster gain shall be rated at minimum of 80dB and the gain shall be adjustable in a minimum of 30dB range. System gain shall be set and documented at the time of the final system test.

10. Maximum Propagation delay of the signal booster system shall be 14μs (microseconds) or as specified by AHJ.

11. The signal booster system shall include built-in automatic supervision of malfunctions of the signal booster and battery system as per NFPA 1221 NFPA 72 and IFC. Non-OEM equipment add-ons and modifications to comply with this specification shall not be allowed.

12. A dedicated supervised monitoring panel shall be provided within the emergency command center next to the fire alarm panel / annunciator or other location as designated by AHJ to annunciate the status of all signal booster locations. The monitoring panel shall provide visual and labeled indication of the following for each signal booster:
    a. Normal AC power
    b. Signal booster trouble
    c. Antenna Failure
    d. Loss of normal AC power
    e. Failure of battery charger
    f. Low battery capacity

13. If signal booster is supervised by a NOTIFIER fire alarm panel, the signal booster system shall include a compatible, OEM built-in NOTIFIER addressable monitoring module If signal booster is supervised by other brand FACP, the signal booster shall be Honeywell branded model with universal normally open relays for connection to external monitoring modules.
14. External filters, duplexers, power supplies or other non-OEM additions or modifications of the original equipment shall not be allowed. All duplexers shall be built-in and FCC certified with the signal booster as a complete and fully integrated FCC-certified and UL-Listed unit.

15. All signal booster components shall be contained in a type-4 approved waterproof enclosure. All enclosures shall be painted red with external labeling as required by the AHJ.

D. Installation Requirements

1. Installation of all components of the Emergency Responder Communication Enhancement System shall comply with all applicable sections of the National Electrical Code NFPA-70, NFPA-72, NFPA 1221, IFC or as required by the local AHJ.

2. At least 2 independent and reliable power supplies shall be provided as specified in NFPA 72, NFPA 1221 and IFC.

3. The primary power source shall be supplied from a dedicated twenty (20) ampere branch circuit and comply with NFPA-70 National Electrical Code, NFPA 72 and NFPA 1221 2016 edition.

   The signal booster shall be equipped with a secondary source of power. The secondary source of power shall be a battery system with a dedicated battery charger powered by a separate, dedicated twenty (20) ampere branch circuit. The secondary power supply shall power on automatically when the primary power source is lost. The secondary source of power shall be capable of operating the emergency responder radio coverage enhancement system for a period of at least 24 hours. The battery system shall automatically charge in the presence of external power input. Battery charger and all other electronic components must be fully enclosed in a waterproof Type-4 approved enclosure. Batteries shall be enclosed in a separate, vented Type-3R approved enclosure. External UPS (Uninterruptable Power Supplies) are not acceptable..

4. RF Coaxial Cable shall be a listed, CMP plenum. Non-plenum cable can be used when installed in a metallic raceway. The cable classification shall be clearly marked on the outer surface of the cable regular intervals.

E. Acceptance and Test Procedures

1. Acceptance testing for an in-building radio system is required upon completion of installation.

2. The coverage testing shall be done in accordance with NFPA 72, NFPA 1221, IFC and as required by the local AHJ

3. All tests shall be conducted, documented, and signed by a person in possession of a current FCC General Radio Operator License.

4. All test records along with system diagrams, iBWave design, equipment specifications, user manuals, RF link budget calculations, battery backup calculation and other design data shall be submitted upon completion of the project, and as required by the AHJ.

END OF SECTION 28 50 00

SECTION 28 55 00 - RF SURVEY FOR EMERGENCY RESPONDER RADIO ANTENNA/REPEATER BDA SYSTEM

PART 1 GENERAL

1.01 SUMMARY

A. The purpose of this specification is to establish the requirements and standards for initial survey for public safety radio signal strength per NFPA and IFC

B. Survey should be performed after the building is substantially completed, and prior to start of installation of electrical wiring.

C. Conduct a survey using a RF Spectrum Analyzer, a calibrated, system-compatible radio or another suitable instrument with traceable certificate of calibration to analyze the RF signal strength of Emergency Responder Radio Signal into the building and determine if amplification of the signal is required. Both inbound and outbound signal strength shall be determined, measured, calculated and documented as required by code.

1.02 SURVEY CRITERIA IF REQUIRED

A. The required Public Safety Radio Signal Level inside the Owner's facility must be determined per code, ordinance or AHJ

B. Survey shall be performed by an FCC licensed technician holding a current GROL license. NOTIFIER have distributors that meet these requirements.

1.03 REGULATIONS

A. Codes, regulations and standards referenced in the Section are:
1. NFPA 1 – The National Fire Code (including Annex O from 2009)
2. NFPA 70 – The National Electrical Code
3. IFC 510- Emergency Responder Radio Coverage
4. NFPA 101, Life Safety Code, the Ohio Building Code, and Local Code and Building Authority requirements.
5. NFPA 72 National Fire Alarm Code
6. FCC 47 CFR Private Land Mobile Radio
7. 90.219 Services-Use of Signal Boosters
8. ICC International Fire Code, Code and Commentary
9. Local or State Promulgated Fire Code

10. ADA "Americans with Disabilities Act"
11. FCC's OET 65 Standards "Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields"
12. FCC Rules Part 22, Part 90 and Part 101
13. NFPA 1221 2016 Edition
14. International Building Code 2012 / 2015 / 2018
15. UL 2524

1.04 DEFINITIONS

A. Definitions:
1. Bi-Directional Amplifier BDA: Device used to amplify band-selective or multi-band RF signals in the uplink, to the base station and in the downlink from the base station to subscriber devices for enhanced signals and improved coverage.
2. Emergency Responder Radio Coverage System: A two-way radio communication system installed to assure the effective operation of radio communications systems for fire, emergency medical services, or law enforcement agencies within a building or structure. A system used by firefighters, police, and other emergency services personnel.
3. FCC: Federal Communications Commission
4. OET 65 Standards: FCC's Bulletin 65 provides Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
5. Public Safety/First Responder: Public Safety or First Responder agencies that are charged with the responsibility of responding to emergency situations. These include, but are not limited to law enforcement departments, fire departments, and emergency medical companies.
6. RSSI: Received signal strength indicator RSSI is a measurement of the power present in a received radio signal.
7. BER: Bit Error Rate is the number of bit errors per unit time
8. GROL- FCC General Radio Operators License
9. ERRCES- Emergency Responder Radio Coverage Enhancement System
10. DAS-Distributed Antenna System

1.05 EXECUTION

A. Testing Procedures
1. Minimum Signal Strength: For testing system signal strength and quality, the testing shall be based on the. -95dBm nominal signal at 100%.
2. Spectrum Analyzer or Calibrated Handheld Radio shall be used as basis for signal measurements or other method as approved by AHJ.
3. Testing should be based on a minimum of 20 grid locations per floor OR maximum of 1600 SQ ft. areas if the floor exceeds 32,000 Sq. Ft. Also, testing should include all critical areas per NFPA. See 1.02 of this specification and NFPA 72 2013 or NFPA 1221 2016. OR per any method determined by the AHJ, local code or ordinance.

3. A minimum signal strength of -95 dBm shall be provided throughout the coverage area for both uplink and downlink by the Local Fire Department.
   a. RSSI measurement only

1.06 SURVEY SUBMITTALS

A. Submit testing data for each level of the building.
   1. An RF measurement drawing of each floor of the building which indicates relative RF field strength for each frequency band of interest must be submitted to the AHJ.
   2. The drawing should indicate clearly the areas that have passed or failed based on the above parameters.

END OF SECTION 28 55 00

MATERIAL LEGEND

ADDITIONAL MATERIALS NOTED THROUGHOUT COMPLETE SET OF DOCUMENTS.

FLOOR

ID	LOCATION	COLOR & MATL SPECIFICATION	INSTALLATION NOTES	MFR/ SUPPLIER / NOTES
FT-1	FLOOR: JRF DORM RR, LIMIT TO RESTROOM AREA. -AND- SINGLE USER RESTROOMS	GLAZED PORCELAIN WITH STEPWISE PRODUCT: VOLUME 1.0 SIZE:[A] 6"SQ (DORM RR) [B] 12"SQ (SINGLE USER RR) x 5/16 THK, COLOR: ACCENT BROWN | FINISH: MATTE	SHOWER FLOORS: SEE 14/A8.11 SERVING KITCHENS: SEE 15/A8.11 SEE PATTERN DETAIL: 3/A8.9 GROUT COLOR: HI78, TBD.| 1/8"THK JNT	DALTILE JENNA HILL 316-390-1539 Jenna.hill@daletile.com
FT-2	FLOOR: JRF DORM RESTROOM, LIMITED TO SHOWER AREA	THROUGH BODY PORCELAIN MOSAIC PRODUCT: KEYSTONE | FINISH: ABRASIVE SIZE:2"SQ x 1/4 THK, SHT MOUNT. FIELD COLOR: MARBLE D325 ACCENT COLOR: WATERFALL D169	SHOWER AREA: SEE 14/A8.11 & TCNA B421 SEE PATTERN DETAIL: 18/A8.9 PRE-FAB SHOWER PAN IN SHOWER ENCLOSURE- SEE PLUMBING & A8.12 GROUT COLOR: HI45, TBD | 1/8"THK JNT.	DALTILE JENNA HILL 316-390-1539 Jenna.hill@daletile.com
FT-3	FLOOR: MULTI-USER RESTROOMS	GLAZED COLOR BODY PORCELAIN PRODUCT: ANVAYA. SIZE:[A] 36"SQ [B] 12"SQ x 9MM THK, EDGE: RECTIFIED. COLOR: LOTUS FOR BID | FINISH: MATTE	MAIN FLOOR RESTROOMS: SEE 14/A8.11 UPPER LEVEL RESTROOMS: 15/A8.11 SEE PATTERN DETAIL: 3/A8.9 GROUT COLOR: HI45 TBD.| 1/8"THK JNT.	EMSER MIKE SANDBO 316-943-1441 mikesandbo@emser.com
SC-1	FLOOR: STORAGE, UTILITY CLOSETS, CUSTODIAL, ETC., UNO.	CLEAR SEALER ON CONCRETE FLOOR SURE SEAL 24/7 PLUS STONE AND CONCRETE SEALER.	SPECIAL PROTECTION PROVISIONS TAKEN TO LIMIT SPLATTERS ON THE WALL DURING APPLICATION.	TNEMEC KYLE LONG 316-737-3404 KLong@tnemec.com
POL. CONC	GENERAL FLOORING FOR FIRST FLOOR: LOBBY, HALLS, SHARED SPACES, ETC. ROOMS WITH GRIT ADDITIVE: OWNER TO SELECT LEVEL OF ABRASIVENESS.	MECHANICALLY POLISHED CONCRETE ULTRASIL LI+ DENSIFIER WITH ULTRAGUARD LIMITED AREAS TO INCL EUCO GRIT ADDITIVE AGGREGATE EXPOSURE: CLASS B, SALT-N-PEPPER. SEMI-RIGID JOINT FILLER: PER SPEC.	SATIN: NOT LESS THAN 5 GRINDING & POLISHING STEPS UPTO 800 GRIT RESIN-PER ASTM D5767. - EQUALS FOR ARCH TO REVIEW MUST OCCUR PRIOR TO LAST ADDENDUM DURING BIDDING PROCESS.	EUCLID CHEMICAL CO CONTACT: MATTHEW HANSEN MHANSEN@EUCLIDCHEMICAL.COM
CPT-1	FLOOR: OFFICES	CARPET TILE STYLE: LEARNING LAB 10661 COLORS: [A]00420.[B] 00470 FOR BIDDING SIZE: 24" SQUARE, THICKNESS: .236"	FULL SPREAD ADHESIVE 4151 PRESSURE SENSITIVE SHAW ADHESIVE INSTALL METHOD: ASHLAR. SEE PATTERN: 1/A8.9. IST FLR: 00420| 2ND FLR: 00470	PATCRAFT SARAH JENKINS 913-237-7586 sarah.jenkins@patcraft.com
CPT-2	FLOOR: ENTRIES	FACILITY ARMOR WALK OFF MAT, EA 52. PRODUCT: [A] PLAIN MAT | [B] LOGO MAT COLOR: TBD. | SIZE: VARIES, CUSTOM AT EA. LOCATION | THICKENESS: 1/2" THK. PERIMETER EDGE TRIM: ULTRA FLEX.	LOOSE LAID WALKOFF MAT. FLOOR FINISH IN ROOM RUNS CONT BENEATH MAT.- MAINTAIN ACCESSIBLE ENTRY. CT-2B: INLAID: COUNTY SEAL. - 2 COLORS. SEE DTL 5/A8.9 FOR GRAPHIC	SOPA, INC CJ CAREY | SANDY RASMUSSEN 620-440-1302 CJCAREY@SOPAINC.COM
CPT-3	FLOOR: 1ST AND 2ND FLOOR PUBLIC AREAS:	CARPET TILE STYLE: LEARNING LAB 10661 COLORS:[A] 00550.[B] 00590 FOR BIDDING SIZE: 24" SQUARE, THICKNESS: .236"	FULL SPREAD ADHESIVE 4151 PRESSURE SENSITIVE SHAW ADHESIVE INSTALL METHOD: ASHLAR SEE PATTERN: 1/A8.9 HALLS: 00550. | MTG RM: 00590	PATCRAFT SARAH JENKINS 913-237-7586 sarah.jenkins@patcraft.com
LVP-1	FLOOR: UPPER LEVEL LIMITED AREAS	LUXURY VINYL PLANK- FULLY ADHERED STYLE: NATURAL CREATION, COMMERCIAL COLOR: NAI81 GALENA OAK, FOR BIDDING. SIZE: 6x48", THK: .125"	UTILIZE 'STRONG SYSTEM' SUBFLOOR PREPARATION PRODUCTS W/S-1840 QUIET COMFORT SOUND CONTROL. WATERJET CUT LOGO IN ELEVATOR. INSTALL METHOD: STAGGER, UNO,	ARMSTRONG ALI HOUGH 913-908-9698 ali.hough@ahfproducts.com
LVP-2	FLOOR: ELEVATOR GRAPHIC, STORAGE, IT	LUXURY VINYL PLANK, NATURAL CREATION, GRAPHIC COLOR: AMARILLO WHT OAK JUTE NA512. FIELD COLOR: NAI81 GALENA OAK	UTILIZE 'STRONG SYSTEM' SUBFLOOR PREPARATION PRODUCTS. SEE 5/A8.9 WATER JET CUT GRAPHIC INTO FIELD.	
ST-1	STAIR TREADS AND LANDINGS STAIRS 1-4	[A] RUBBER STAIR TREAD: DUPONT KEVLAR, TEXTURE: HAMMERED [B] ENVIRE RUBBER TILE: 24"SQx2.5 mm TREAD ADHESIVE: TP-620, EN-610 (NOSE) TILE ADHESIVE: U-705	SEE INSTALL DETAIL: 4/A8.9 TREAD LENGTH SIZED TO BE (1) PIECE. COVER ENTIRE TREAD, FIELD CUT AS REQ'D. SYMMETRY COLOR: SI94 BURNT UMBER FOR BID PURP.	ROPPE WENDY BREMER 630-277-1414 WABREMER@ROPPE.COM
TR-1	FLOOR TRIM: CARPET TO CONCRETE TRANSITION	RUBBER CARPET EDGE SIZED TO ACCOM. CARPET THICKNESS. COLOR: MATCH WALL BASE, UNO.	GLUE DOWN, SINGLE PIECE LENGTH WHR POSSIBLE. RUN ALONG EXPOSED EDGE. SEE 5/A8.4, APPLY WHERE OCCURS.	
TR-2	FLOOR TRIM: EDGE GUARD & REDUCER	LUXURY VINYL TRANSITIONS [A] VINPRO-U, REDUCER. [B] VINPRO-S, EDGE GUARD (SIMILAR HT)	SINGLE PIECE LENGTH WHR POSSIBLE. RUN CONT. ALONG EXP. EDGE. SEE DETAILS 3 & 4/A8.4,APPLY WHERE OCCURS.	SCHLUTER ALEX WAGGONER 816-666-3190 AWAGGONER@SCHLUTER.COM
TR-3	FLOOR TRIM: TILE TO CONCRETE TRANSITION	ALUMINUM RAMP: SIZED TO ACCOMMODATE TILE THICKNESS COLOR: CLEAR ANO ALUM, UNO.	SET INTO TILEWORK.SINGLE PIECE LENGTH WHR POSSIBLE. RUN CONT. ALONG EXP. EDGE. SEE 7/A8.4,APPLY WHERE OCCURS.	
TR-4	PERIMETER TRIM: AT FIXED BUILDING ELEMENTS	PERIMETER JOINT- DILEX-KSA | COLOR TO COORDINATE W/ FRAME - VARIES. SIZED TO ACCOMMODATE TILE.	SET INTO TILEWORK.SINGLE PIECE LENGTH WHR POSSIBLE. RUN CONT. ALONG EXP. EDGE.SEE 12/A8.4,APPLY WHERE OCCURS.	
TR-5	FLOOR TRIM: TILE TO LVT OR CARPET	REDUCER: SIZED TO ACCOMMODATE TILE THICKNESS COLOR: CLEAR ANO ALUM, UNO.	SET INTO TILEWORK.SINGLE PIECE LENGTH WHR POSSIBLE. RUN CONT. ALONG EXP. EDGE. SEE 6/A8.4,APPLY WHERE OCCURS.	
TR-6	EXPANSION JOINT	BALCO FLOOR COVER: MODEL: 75FPE. VARIED SURFACE OPTIONS. PROVIDE ADAPTIONS. VERIFY JOINT SIZE	FLOORING MATERIAL INSETS INTO COVER RECEIVERS. COLD JOINT SLAB JOINT, IDENTIFY LOCATION ON SHOP DRAWINGS.	BALCOUSA 316-945-9328

BASE

ID	LOCATION	COLOR & MATL SPECIFICATION	INSTALLATION NOTES	MFR/ SUPPLIER / NOTES
WB-1	BASE: GENERAL AREAS, UNO	RUBBER WALL BASE-PINNACLE WALL BASE COLOR: A: 123 CHARCOAL B:174 SLATE C: 193 BLACK BROWN. FOR BIDDING 4"H | COVE STAND. TOE | COIL LENGTH	INSTALLATION: CONCEAL ATTACHMENT. SEE DTL 1/A8.10, TYP.	ROPPE WENDY BREMER 630-277-1414 WABREMER@ROPPE.COM
WB-2	BASE: LOCATION IDENTIFIED ON ELEVATION.	RUBBER WALL BASE-CONTOURS | VERTICAL COLOR: A: 123 CHARCOAL B:174 SLATE C: 193 BLACK BROWN. FOR BIDDING SIZE: 4-5/8"x 3/8"THK x 8' LENGTH.	INSTALLATION: CONCEAL ATTACHMENT. SEE DTL 3/A8.10	
WB-3	BASE: LOCATION IDENTIFIED ON ELEVATIONS.	RUBBER WALL BASE-PINNACLE WALL BASE COLOR: A: 123 CHARCOAL B:174 SLATE C: 193 BLACK BROWN. FOR BIDDING 6"H | COVE STAND. TOE | COIL LENGTH	INSTALLATION: CONCEAL ATTACHMENT. SEE DTL 1/A8.10, TYP.	
WB-4	BASE: LOCATION IDENTIFIED ON ELEVATION.	RUBBER WALL BASE-CONTOURS | VERTICAL COLOR A: 123 CHARCOAL B:174 SLATE C: 193 BLACK BROWN. FOR BIDDING SIZE: 6 "x 3/8"THK x 8' LENGTH.	INSTALLATION: CONCEAL ATTACHMENT. SEE DTL 3/A8.10, TYP.	
TB-1	TILE BASE: SERVING KITCHENS, UNO	PORCELAIN COVED SKIRTING, SP PROFILE SERIES: GLOBAL | COLOR: PLAIN ANTHRACITE ITEM: 76250SP1530. COLOR FOR BIDDING. SIZE: 6" X 12" SANITARY COVE BASE GROUT COLOR: HI78, EPOXY	INSTALLATION SHALL MAINTAIN KDA: FOOD SAFETY ENVIRONMENT AT SERVING KITCHENS. TOE SETS ONTOP OF FLOOR. MITER CORNERS.	VIRGINIA TILE - MOSA NIKKI VAN DYNE, 913-620-6098 Nikki.VanDyne@virginiatile.com + BOSTIK SETTING MATERIALS
TB-2	TILE BASE: RESTROOMS, UNO	PORCELAIN THIN COVED SKIRTING, DP PROFILE SERIES: GLOBAL | COLOR: PLAIN AGATE GREY | ITEM: 75050DP815 SIZE: 3" X 6" THIN COVE SKIRTING GROUT COLOR: HI98, EPOXY	INSET COVE TOE: FLUSH-SETS. TOP OF COVE TOE IS FLUSH WITH TOP OF FLOOR TILE. MITER CORNERS	VIRGINIA TILE - MOSA NIKKI VAN DYNE, 913-620-6098 Nikki.VanDyne@virginiatile.com + BOSTIK SETTING MATERIALS
TR-9	BASE COVE TRIM: LOCATION IDENTIFIED ON ELEVATION.	METAL, COVE-SHAPED TRIM PROFILE PRODUCT: [A] DILEX-AHKA [B] DILEX-AHK AT TILE FLOORS. COLOR: DRK ANTHRACITE SIZED TO ACCOM. TILE THICKNESS.	SET INTO TILEWORK. SINGLE PIECE LENGTH WHR POSSIBLE. RUN CONT. INCL: IN & OUT CORNER/ CONNECTOR/ ENDCAP ACCESSORIES. SEE DTL 2/A8.10	SCHLUTER MATT BAUER 913-702-4331 MBAUER@SCHLUTER.COM
TR-10	EXPOSED EDGE TRIM: LOCATION IDENTIFIED ON ELEVATION.	METAL EXPOSED EDGE PROTECTION PRODUCT: SCHIENE STEP-II COLOR: BRUSHED STAINLESS STEEL VERTICAL LEG: 7/16".	SET INTO TILEWORK.SINGLE PIECE LENGTH WHR POSSIBE. RUN CONT.INCLUDE IN & OUT CORNER/ CONNECTOR. SEE DTL 10/A8.10.	

MATERIAL LEGEND CONTINUES ON SHEET A8.1

WALL

ID	LOCATION	COLOR & MATL SPECIFICATION	INSTALLATION NOTES	MFR / SUPPLIER/ NOTES
PT-1	GENERAL WALL FINISH, UNO.	INTERIOR ACRYLIC/LATEX PRODUCT: PROMAR 200 SHEEN: SATIN COLOR: VARIES, COUNTY STANDARDS	SUBSTRATE VARIES- SEE SPEC. FOR ADDITIONAL PREP AND MATERIALS. INTERIOR : (3) FIELD COLORS: A-C + (3) ACCENT COLORS: D-F. FOR THE PROJECT SCOPE	
PT-2	EPOXY PAINT LOCATE ON WALL FINISH PLAN	PRE-CATALYZED WATERBORNE EPOXY PRODUCT: PRO IND. PRE-CAT WB EPOXY COLOR: VARIES, EGGSHELL SHEEN	SUBSTRATE VARIES- SEE SPEC FOR ADDITIONAL PREP AND MATERIALS. INTERIOR : (2) COLORS: A-B	
PT-3	WALL GUARD PAINT: LOCATE ON WALL FINISH PLAN AND ELEVATIONS.	INTERIOR INTERIOR WATERBASED ENAMEL PRODUCT: SCUFF-TUFF SHEEN: SATIN COLOR: VARIES	SUBSTRATE VARIES- SEE SPEC FOR ADDITIONAL PREP AND MATERIALS. INTERIOR :(3) COLORS: A-C FOR PROJECT	
PT-4	GENERAL HOLLOW METAL FINISH	PAINT FULL COVERAGE PRODUCT: COROTECH QUICK DRY ALKYD ENAMEL V231 COLOR: VARIES, SATIN SHEEN	SEE SPEC FOR ADDITIONAL PREP AND MATERIALS. INTERIOR/EXTERIOR: COLOR TO MATCH ADJACENT WALL FINISH.	SHERWIN WILLIAMS: HUMBERTO CAMPISTA 831-278-2208 | HUMBERTO.CAMPISTA@SHERWIN.COM
WT-1	ACCENT TILE LOCATION ON WALL FINISH PLAN	GLAZED CERAMIC STYLE: STUDIO WALL- OR APPROVED EQ. COLOR: SKY | FINISH: GLOSS SIZE: 4x16"x8MM + 2 x 8" BULLNOSE TRIM GROUT COLOR: HI71	BULLNOSE TRIM TILE AT EXPOSED EDGES, U.N.O.. BULLNOSE TRIM TO MATCH. TILE COLOR NOTED FOR BID PURPOSE.	VIRGINIA TILE - VITL NIKKI VAN DYNE, 913-620-6098 Nikki.VanDyne@virginiatile.com + BOSTIK SETTING MATERIALS + SCHLUTER MATERIAL WHR SHOWN
WT-2	FIELD TILE LOCATION ON WALL FINISH PLAN	GLAZED CERAMIC STYLE: STUDIO WALL- OR APPROVED EQ COLOR: [A] FR GRAY, [B] WHITE* FINISH: GLOSS, MATTE | SIZE: 4x16"x8MM + 2 X 8" BULLNOSE TRIM.	BULLNOSE TRIM AT EXPOSED EDGES, UNLESS NOTED OTHERWISE .BULLNOSE TRIM TO MATCH FIELD COLOR + FINISH. * = WHITE TILE IN SERVING KITCHEN, LAUNDRY, EXAM, LAB + LAB RR.	
WT-3	ACCENT TILE WALL LOCATION ON WALL FINISH PLAN + WINDOW SILL TILE IN JRF	GLAZED PORCELAIN | MATTE RECTIFIED PRODUCT: MOOD WOOD COLOR: [A] BROWN [B] HONEY, FOR BID PURPOSES.SIZE: 8 x 48" x 8MM + 3 x 36" BULLNOSE TRIM, ONLY WHR SHOWN.	GROUT COLOR: HI35 AND HI78: TBD SEE ELEVATIONS: BULLNOSE TRIM TILE AND GROUT VARIATIONS. TRIM TILE TO MATCH FIELD TILE. WINDOW SILL IN JRF DORMS: COLOR [B], FOR BIDDING.	VIRGINIA TILE - MILESTONE NIKKI VAN DYNE, 913-620-6098 Nikki.VanDyne@virginiatile.com + BOSTIK SETTING MATERIALS + SCHLUTER MATERIAL WHR SHOWN.
WT-4	ACCENT TILE LOCATION: SEE ELEVATIONS.	POLISHED PORCELAIN TILE, SERIES: TERAZIO | COLOR: BIANCO FOR BID PURPOSES | FINSH: POLISHED. SIZE: 24" SQ x 10 MM THK GROUT COLOR: HI44 MISTY GRAY, TBD	METAL TRIM EXPOSED EDGES: SEE DTL 7/A8.10. COLOR: BRUSHED NICKEL INCLUDE QUADEC INSIDE/OUTSIDE CORNERS + CONNECTORS	EMSER MIKE SANDBO 316-943-1441 mikesandbo@emser.com
WS-1	WINDOW SILL TILE GENERAL FINISH, SEE A7.1 & A7.2 FOR LOCATIONS AND VARIATIONS.	PORCELAIN TILE SERIES: TERRA MAESTRICHT COLOR: COOL PORC WHITE, 200V, FOR BIDDING. FINISH: SMOOTH (V) SIZE:[A] 8"W.[B] 6"W. [C] 4"W. x 24"L + BULLNOSE TRIM. BP: 3.8" x 24"	SIZE: SELECT A,B,C, SIZE OPTION FOR BEST FIT ON SILL DEPTH. SILL DEPTH VARIES. FIELD CUT TILE TO FIT SILL DEPTH WHR REQUIRED. SEE DTLS: 6 & 13/A8.11. GROUT: UNSANDED + ADDITIVE.	VIRGINIA TILE - MOSA NIKKI VAN DYNE, 913-620-6098 Nikki.VanDyne@virginiatile.com + BOSTIK SETTING MATERIALS + SCHLUTER MATERIALS
WP-1	FRP: JANITOR'S CLOSET TABLE STORAGE ROOMS LAUNDRY	FIBERGLASS PANEL PRODUCT: GLASSBOARD COLOR: WHITE | RATED: 1 HR FIRE RATING TEXTURE: A.PEBBLE EMBOSSING| B.SMOOTH SIZE: 4' X 8' | POLY TRIM ACCESSORY	CONCEAL ATTACHMENT INSTALLS ABOVE WALL BASE TRIMS INCLUDE: DIVIDER, CORNER TRIM AND EDGE TRIM.	VALTO ENGINEERED MATERIALS JEFF TOLLE 815-274-9125 | JTOLLE@VALTOEM.COM DISTRIBUTOR: FBM 316-522-5300
WP-2	TECTUM GYMNASIUM- UPPER WALL.	ACOUSTICAL WALL PANEL PRODUCT: 2"THK FACTORY PRIMED TECTUM COLOR: PAINT ACCENT COLOR | SIZE: 4'W SQUARE EDGE ON TOP AND BOTTOM. CHAMFER EDGES AT VERTICAL BUTT JOINTS.	FURNISH AND INSTALL WITH WOOD TRIM, NAILERS AND 1 1/2" BATT INSULATION. SEE DETAIL: 14/A8.10	LOCAL DISTRIBUTOR
WP-3	ENGINEERED ONYX PANEL- MADE TO ORDER SHOWER ENCLOSURE	WALL PANEL WITH END STOPS, INSIDE CORNER COVE TRIM AND RECESSED CADDY COLOR: GROTTO, TBD. | SIZE: FIT WALL CONSTRUCTION, F.V. SIZE. RECESSED CADDY SIZE: LIBERTY SHAMPOO	INSTALL END STOPS ON EXPOSED EDGES OF PANELS: FLAT TRIM: SEE DETAIL FOR SIZES. ABUT SHOWER PANELS INTO END STOPS. INSTALL PER MFR INSTALL GUIDES. SEE DETAILS ON A8.12 & A8.13	THE ONYX COLLECTION JEFF TWADDLE 800-669-9867 SUPPORT@THEONYXCOLLECTION.ZENDESK.COM
WP-4	RIGID PANEL AND TRIM TRANSACTION COUNTER & WORK ISLANDS.	PALLADIUM 3D WALL SYSTEM: MOULDING AND RIGID SHEET PRESSED ONTO MDF BOARD. SHEET SIZE: 406. MOULD'G: 5/8"THK,2"W, MATCH SHT COLOR	WOODGRAIN COLORS: BARREL OAK AND SANTA ROSA OAK FOR BIDDING SEE MILLWORK & ROOM ELEVATIONS.	INPRO, CONTACT: PAM REYNOLDS 913-283-0872 preynolds@inprocorp.com
TR-11	WALL TILE TRIM LOCATE ON ELEVATIONS	EDGE PROTECTION PROFILE PRODUCT: SCHIENE COLOR: STAINLESS STEEL OR LIGHT ANTHRACITE. SIZE: FIT TILE THICK.,VARIES	SET INTO TILEWORK.SINGLE PIECE LENGTH WHR POSSIBLE. RUN CONT. ALONG EXP. EDGE.SEE 9/A8.10,APPLY WHERE OCCURS.	SCHLUTER MATT BAUER 913-702-4331 MBAUER@SCHLUTER.COM
TR-12	WALL TILE TRIM MULTI-USER RESTROOM & RR ENTRY, ACCENT TILE PATTERN	EDGE PROTECTION PROFILE PRODUCT: DECO COLOR: BRUSHED STAINLESS STEEL. SIZE: FIT TILE THICKNESS, VARIES	SET INTO TILEWORK. SINGLE PIECE LENGTH WHR POSSIBLE. RUN CONTINUOUSLY AT HORIZONTAL JOINT AT APPROX 53"A.F.F. SEE DETAIL 6/A8.10.	
TR-13	WALL TRIM LOCATE ON ELEVATIONS	EDGE PROTECTION PROFILE PRODUCT: QUADEC COLOR:STAINLESS STEEL V4A SIZE: FIT TILE THICKNESS, VARIES	SET INTO TILEWORK.SINGLE PIECE LENGTH WHR POSSIBE. RUN CONT.INCLUDE IN & OUT CORNER/ CONNECTOR. SEE DTL 7/A8.10	
TR-14	WINDOW SILL TRIM LOCATE IN OFFICES	PROFILE TO COVERS SUB-ASSEMBLY PRODUCT: RONDEC-STEP COLOR: SATIN NICKEL ANODIZED VERTICAL LEG: 1 1/2"H	SET INTO TILEWORK. SINGLE PIECE LENGTH WHR POSSIBLE. RUN CONT. INCLUDE CORNER PROFILES. SIZED TO EACH TILE WHERE APPLIES. SEE DETAIL 13/A8.10	

CEILING

ID	LOCATION	COLOR & MATL SPECIFICATION	INSTALLATION NOTES	MFR/ SUPPLIER / NOTES
AC-1	GENERAL CEILING - PUBLIC AREAS	SUSPENDED ACOUSTICAL CEILING SYSTEM: TILE: FINE FISSURED FIREGUARD | WHITE EDGE: BEVELED TEG. | SIZE:24"SQ x 3/4" THK GRID: SUPRAFINE XL FIREGUARD, 9/16" GRID, FIRE RATING: 1 HR, U.N.O., WHITE.	INSTALLER SHALL PAINT CUT EDGE. COLOR: WHITE. INCLUDE AT PERIMETER SHADOW MOULDING INSTALL HOLD DOWN CLIPS IN VESTIBULES & EXTERIOR ENTRY.	ARMSTRONG CEILING ELIZABETH MOON 1-816-800-2582 EMoon@armstrongceiling.com
AC-2	UTILITY AND MAINTENANCE ROOMS, U.N.O.	SUSPENDED ACOUSTICAL CEILING SYSTEM: TILE: FINE FISSURED FIREGUARD | WHITE EDGE: SQUARE | SIZE: 24"SQ X 3/4" THK GRID: PRELUDE FIREGUARD, 15/16" GRID, RATING: 1 HR U.N.O., WHITE.	INSTALLER SHALL PAINT CUT EDGE. COLOR: WHITE.	
PT-5	GENERAL SOFFIT AND CLOUD LOCATIONS. DORM ROOMS: INCL TEXTURE	INTERIOR ACRYLIC/LATEX PRODUCT: PROMAR 200 SOFFIT SHEEN: FLAT | CLOUD: EGGSHEL COLOR: CEILING WHITE, U.N.O.	APPLY (1) PRIMER AND (2) FINISH COATS, SEE SPEC FOR ADDITIONAL MATERIAL. SOFFIT DETAILS: 10 + 11/A2.14 CLOUD DETAILS: 8 + 12/A2.14	SHERWIN WILLIAMS: HUMBERTO CAMPISTA 831-278-2208 HUMBERTO.CAMPISTA@SHERWIN.COM
PT-6	GENERAL RESTROOM/ SHOWER	PRE-CATALYZED WATERBORNE EPOXY PRODUCT: PRO IND. PRE-CAT WB EPOXY COLOR: TBD, EGGSHELL SHEEN	SUBSTRATE VARIES- SEE SPEC FOR ADDITIONAL PREP AND MATERIALS. COLOR: COUNTY STANDARD PAINT COLOR.	
PT-7	INTERIOR EXPOSED CEILINGS/METAL DECKING, MECHANICAL & ELECTRICAL COMPONENTS, BARJOISTS UNFINISHED, EXPOSED STRUC, ETC	DRYFALL SYSTEM: PRODUCT: DRY FALL COLOR: VARIES. TEST PATCH TO CONFIRM SUITABILITY PRIOR.	SURFACE SHALL BE FACTORY PRIMED. APPLY (2) FINISH COATS. FILM THICKNESS: DRY 2.0 MILS. COLOR NOTED ON REFLECTED CEILING PLAN.	
VC-1	GENERAL SERVING KITCHEN	VINYL-FACED CEILING TILE SYSTEM: TILE: GRIDSTONE FIRE,WHITE,2 HR RATED EDGE: SQUARE | SIZE: 24" SQ, 1/2" THK GRID: PRELUDE PLUS XL 15/16 ALL ALUMINIUM GRID, FIRE RATED.	INSTALLER SHALL PAINT CUT EDGE. COLOR: WHITE.	NATIONAL GYPSUM [TILE] ARMSTRONG [GRID] - -

ARCHITECTS

CHRISTOPHER JAMES HANNEY LICENSED ARCHITECT 8044 KANSAS PROFESSIONAL ARCHITECT

11/06/26

HANNEY & ASSOCIATES, ARCHITECTS
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Fax (316) 684-1441

2025 SEDGWICK COUNTY

JUVENILE SERVICES BUILDING
881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED		
NO.	DATE	ITEM ISSUED
12	11/6	ADDENDUM #3
11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

DRAWING FILE
SC_JFS_A800.dwg

DATE: MAY 2025

DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

SHEET

A8.0

MATERIAL LEGEND CONT.

ADDITIONAL MATERIALS NOTED THROUGHOUT COMPLETE SET OF DOCUMENTS.

MILLWORK - SEE A7.2, MATERIAL LEGENDS

ID	LOCATION	COLOR & MAT'L SPECIFICATION	INSTALLATION NOTES	MANUFACTURER/ SUPPLIER
PL-1 [A] [B] [C]	PLASTIC LAMINATE	PLASTIC LAMINATE SEE A7.2, LAMINATE LEGEND	PLASTIC LAMINATE SHALL MATCHING 3MM PVC EDGEBANDING, UNO. COLOR NOTED IS FOR BIDDING, VERIFY PRIOR TO ORDERING.	WILSONART, FORMICA, NEVAMAR, PIONITE. SELECTION FROM DOMESTICALLY STOCKED. PATTERN/COLOR/FINISH AS SPECIFIED.
PL-2	GENERAL ADJ HEIGHT SHELVING LOCATIONS.	PLASTIC LAMINATE FINISH - HPL SHELF: SEE A7.2, LAMINATE LEGEND HARDWARE: KV STANDARDS AND BRACKET 82/182 - UPTO 24"D ,TITANIUM (TI)FINISH.	SHELF: PROVIDE (5) SHELVES PER LINEAR FOOT. EDGEBANDING APPLIES TO ALL SIDES OF EACH SHELF. BRACKET SIZE TO ACCOMMODATE SHELF DEPTH NOTED ON DRAWINGS.	KNAPE AND VOGT HARDWARE WILSONART LAMINATE OR EQUAL
PL-3	METAL LAMINATE	METAL LAMINATE ON BACKER SEE A7.2, LAMINATE LEGEND	MATCHING EDGEBANDING, UNO. COLOR NOTED IS FOR BIDDING, VERIFY PRIOR TO ORDERING.	CHEMETAL OR REHAU
ES-1 [A] [B]	SOLID SURFACE	ENGINEERED STONE: SOLID SURFACE THICKNESS: 1/2" SEE A7.2, COUNTERTOP & ADD'L SURFACE MATERIAL LEGEND	FABRICATION: SEE BUILT-UP EDGE DETAIL, SEE MILLWORK COLOR NOTED IS FOR BIDDING, VERIFY PRIOR TO ORDERING.	HALLMARK BUILDING SUPPLIES- CORIAN KRISTY RINNE 314-254-6634 KRINNE@HLLMARK.COM
ES-2	SOLID SURFACE	ENGINEERED STONE: SOLID SURFACE THICKNESS: 1/4" SEE A7.2, COUNTERTOP & ADD'L SURFACE MATERIAL LEGEND	FABRICATION: END WALL DETAIL, SEE MILLWORK COLOR NOTED IS FOR BIDDING, VERIFY PRIOR TO ORDERING.	
ES-3 [A] [B]	PERFORMANCE TOP	SLAB STANDARD SIZE: 0.8 CM THICK SEE A7.2 FOR ADDITIONAL MATL INFO [A] LUNAR 22. [B] KRETA - QUICKSHIP	[A] EDGE: EASED EDGE. 0,8 CM THK. LOCATE ON COUNTERTOPS WHERE SPEC. [B] EDGE: MITER. JRF R100, WINDOW SEAT AND HALL B114 BENCH.	COSENTINO - DEKTON RYAN HASSETT 913-888-0935 RHASSETT@COSENTINO.COM
CT-1	PERFORMANCE TOP	ENGINEERED STONE: SOLID SURFACE THICKNESS: 1/2" SEE A7.2, COUNTERTOP & ADD'L SURFACE MATERIAL LEGEND	FABRICATION: SEE BUILT-UP EDGE DETAIL, SEE MILLWORK INCLUDE: INSULATE, ISOLTE & SUPPORT. COLOR NOTED IS FOR BIDDING, VERIFY PRIOR TO ORDERING.	HALLMARK BUILDING SUPPLIES- CORIAN KRISTY RINNE 314-254-6634 KRINNE@HLLMARK.COM
SS-1	STAINLESS STEEL TOP	FOOD-GRADE STAINLESS STEEL COUNTER WITH SQUARE EDGE, 1 1/2"H. PLY-BACKED. SEE A7.2 FOR ADDITIONAL MATL INFO	COUNTER FABRICATE WITH EDGE TO CONCEAL BACKER. COORDINATE SIZE OF ISLAND CABINETRY PRIOR TO FABRICATION.	AAA RESTRAURANT SUPPLY TANNER ERDMAN 316-265-4365 TANNER@AAA-RESTAURANT.COM

SPECIALTY FINISHES

ID	LOCATION	COLOR & MAT'L SPECIFICATION	INSTALLATION NOTES	MANUFACTURER/ SUPPLIER
SF-1	WALL PADS AT BASKETBALL COURT	ANCHORED STANDARD WALL PADDING SYSTEM WARD'S SOFSTOP 2" NEOPRENE FOAM FILLER SIZE: 2'W x 6'H PANEL TO RUN CONT. ALONG LENGTH OF WALL. | FIRE RATING: CLASS 'A' FABRIC: 14OZ, HD PSY VINYL LAMINATE	WALL PADDING MATERIALS AND INSTALLATION SHALL BE BY DISTRIBUTOR. INCLUDE SEPARATE PRICE (MAT'/INSTL) TO ADD/SUBTRACT INDIVIDUAL 2'W PANELS.	SOPA INC C.J. CAREY | SANDY RASMUSSEN 620-440-1302 CJCAREY@SOPAINC.COM

FINISH NOTES

F.N.#1	PAINT EXPOSED AND/OR BOXED OUT STRUC. COLUMN. COLOR: DIFFERENT COLOR IS ASSIGNED TO EACH DEPARTMENT. SEE DEPARTMENT KEY PLAN
F.N.#2	LOWER WALL ACCENT TILE WAINSCOT, UPPER WALL: PAINT. DIFFERENT ACCENT COLOR, MATL AND/OR PATTERN IS ASSIGNED PER LOCATION. SEE WALL FINISH PLAN
F.N.#3	METAL DECKING: PAINT WITH DRYFALL PAINT. PAINT VISIBLE MECHANICAL, ELECTRICAL, STRUCTURE. ETC AT CEILING. COLOR:BLACK, TYP UNLESS NOTED OTHERWISE.
F.N.#4	G.C. RESPONSIBILITY: PROVIDE/CONSTRUCT LOCKER BASE FRAMING WITH RUBBER BASE FINISH. HEIGHT: 8", TYP. UNLESS NOTED OTHERWISE.
F.N.#5	RECESS FLOOR SLAB. RECESS SHOWER PAN IN MANNER TO ACHEIVE A ZERO THERSHOLD AT ENTRY. SEE MANF INSTALLATION GUIDELINES.
F.N.#6	MINI-BLIND ON UPPER AND LOWER WINDOW OF SIDELIGHT MATERIAL: AB-1. SEE A9.3 AND A9.4
F.N.#7	DECKING AND 'UPPER-WALL-ACCENT' HAS SAME PAINT FINISH. LOCATE DATUM LINE APPROX 30". BELOW DECKING. RUN CONTINUOUSLY AND PARALLEL W/DECKING, U.N.O.
F.N.#8	HALF-WALL, WITH WALL CAP. DIFFERENT MATERIALS ARE ASSIGNED PER LOCATION. SEE MILLWORK
F.N.#9	STAINLESS STEEL WALL PANELS AT COOKING UNIT, MATERIAL: SS-1. INCLUDE STN. STL. METAL TRIM ON EXPOSED EDGES.
F.N.#10	TILE BACKSPLASH FINISH. DIFFERENT COLOR, MATERIAL AND/OR PATTERN IS ASSIGNED PER LOCATION. SEE WALL FINISH PLAN.
F.N.#11	LOWER WALL TILE WAINSCOT, UPPER WALL: PAINT. DIFFERENT COLOR, MATERIAL AND/OR PATTERN IS ASSIGNED PER LOCATION. SEE WALL FINISH PLAN.
F.N.#12	ACCENT COLOR PAINT FINISH. EACH DEPARTMENT IS ASSIGNED A DIFFERENT ACCENT COLOR. SEE DEPARTMENT ID KEY PLAN.
F.N.#13	APPLY GRIT TO FLOOR TO ACHIEVE SLIP RESISTANCE. PROVIDE MOCKUP OF DIFFERENT GRIT LEVELS TO OWNER FOR REVIEW PRIOR TO COMMENCING.
F.N.#14	COUNTERTOP FINISH. DIFFERENT COLOR AND/OR MATERIAL IS ASSIGNED PER LOCATION. SEE MILLWORK PLAN.
F.N.#15	WALL BASE: DIFFERENT COLOR AND/OR MATERIAL IS ASSIGNED PER LOCATION. SEE WALL FINISH PLAN.
F.N.#16	FULL WALL HEIGHT TILE PATTERN. DIFFERENT COLOR, MATERIAL AND/OR PATTERN IS ASSIGNED PER LOCATION. SEE WALL FINISH PLAN.
F.N.#17	G.C. TO PROVIDE AND INSTALL MOVEABLE WALL. MOVEABLE WALL FINISH SELECTION SHALL BE CLEANABLE WITH DILUTED BLEACH, COLOR: T.B.D.
F.N.#18	LOWER WALL: PANEL PROTECTION. UPPER WALL: PAINT. DIFFERENT COLOR AND/OR MATERIAL IS ASSIGNED PER LOCATION. SEE WALL FINISH PLAN.
F.N.#19	HDPE TOILET PARTITIONS W/ DOOR AND URINAL SCREEN. PARTITION FINISH: METALLIC HAMMERED. STAINLESS STEEL HARDWARE: CORROSION/VANDAL RESISTANT.
F.N.#20	WINDOW SEAT AND WALL FINISH AT WINDOW SEAT: TRESPA FINISH AND DEKTON FINISH INSTALLATION REQUIRES COORDINATION BETWEEN DIFFERENT TRADES.
F.N.#21	WALK-OFF MAT AT EXTERIOR ENTRY. POLISHED CONCRETE TO EXTEND BENEATH MAT.
F.N.#22	PAINT TECTUM WALL FINISH AND WOOD TRIM, DO NOT PAINT PRECAST CONCRETE WALLS NOR PRECAST CONCRETE CEILING. EXPOSED MEP ITEMS: FACTORY FINISH APPLIED.
F.N.#23	SHOWER ENCLOSURE WALL PANELS: ONXY PANELS FULL WALL HEIGHT ABOVE SHOWER PAN CURB. INCLUDE ONYX ACCESSORIES. SEE A8.13
F.N.#24	CEILING TEXTURE FINISH: ORANGE PEEL/KNOCKDOWN. PAINT WHITE, LOW SHEEN.
F.N.#25	WALLS RECEIVE SCUFF-TUFF PAINT TYPE. DIFFERENT COLORS ARE ASSIGNED AS FIELD AND ACCENT. SELECT FROM COUNTY STD COLORS. SEE WALL FINISH PLAN.
F.N.#26	WALL PROTECTION SYSTEM INCLUDES 3D TRIM BLOCKS AND RIGID SHEET FINISHES. SEE ELEVATIONS FOR EXTENT.
F.N.#27	CONSTRUCTION MEANS/METHODS ASSOCIATED W/ BALLISTIC PROTECTION CONSTRUCTION: BY GEN. CONTR.. G.C. RESPONSIBLE IN MAINTAINING PROTECTION WITH OTHER TRADES WORK.
F.N.#28	HINGED ACCESS PANEL IN FLOOR. RECESSED DOOR AND FRAME TO ALIGN FLUSH FLOORING. PAINT COLOR: DRK GREY
F.N.#29	GYM PAINT LINES. TNEMEC FLOOR PAINT 296/297 WITH CLEAR SEAL. MULTIPLE COLORS. PROTECT POL CONC FROM OVER-SPRAY. MASKING REQUIRED.
F.N.#30	SPORTS EQUIPMENT: WALL PADS, CORNER PADS, ETC AND BASKET BALL BOARD. SEE SPECIFICATION.
F.N.#31	CARPET TILE AS 'AREA-RUG' INSTALL. POLISHED CONCRETE FLOOR INSTALLS BENEATH RUG. RUG INSTALLS WITH ADHESIVE DOTS. EXPOSED CARPET EDGE: ROPPE #21, MITER CORNERS. DOUBLE STICK TAPE. SIZE: (5) ROWS OF (4) FULL SIZE CARPET TILES

RESPONSIBILITY MATRIX

MATERIALS NOT LISTED ARE PROVIDED AND INSTALLED BY G.C.
CONTRACTOR TO COORDINATE OWNER PROVIDED AND/OR INSTALLED ITEMS.

No.	NOTES	OWNER PROVIDED BY	OWNER INSTALLED BY	CONTRACTOR PROVIDED BY	CONTRACTOR INSTALLED BY
A.	APPLIANCES: SEE A1.9 AND SPECIFICATION FOR RESPONSIBILITY SCOPE OF WORK				
B.	BALLISTIC PROTECTION CONSTRUCTION AND ALL COMPONENTS NECESSARY TO SUPPORT ADDITIONAL WEIGHT.			●	●
C.					
D.	RESIDENTIAL BEDROOM FURNITURE AND RESIDENTIAL LOUNGE FURNITURE	●	●		
E.	OFFICE SEATING, OFFICE DESKING AND CONFERENCING, OFFICE LOUNGE AND GUEST SEATING, ETC.	●	●		
F.	LOCKER BASE FRAMING/PLATFORM, LOCKERS, WINDOW TREATMENTS, WALL GUARDS			●	●
G.	ELECTRICAL POWER AND DATA TO SUPPORT OWNER PROVIDED POWERED FURNITURE, A/V, EQUIPMENT, APPLIANCES, SIGNAGE, ETC			●	●
H.	METAL RACKS ON CASTERS AND WALL MOUNTED SHELVES			●	●
J.	POWERED SIGNAGE CABINET AND FLAT EXTERIOR SIGNAGE AND VINYL LETTERING/ADDRESS NUMBERS			●	●
K.	INTERIOR SIGNAGE	●	●		

ROOM FINISH MATRIX

ADDITIONAL MATERIALS NOTED THROUGHOUT COMPLETE SET OF DOCUMENTS.

JUVENILLE RESIDENTIAL FACILITY - JRF

ROOM ID	ROOM NAME	FLOOR: FLOOR TILE	FLOOR: SEALED	FLOOR: POLISHED CONC.	FLOOR: CARPET TILE	FLOOR: RESILIENT	FLOOR: RECESS SLABISH-1A	BASE: RUBBER	BASE: TILE	BASE: -	WALL: TILE	WALL: PAINT	WALL: EPOXY-WB	WALL: WALL PANEL	WALL: SPECIAL FINISH	CEILING: ACOUSTICAL TILE SYSTEM	CEILING: PAINT	CEILING: VINYL FACED TILE SYSTEM	CEILING: CEILING CLOUD	CEILING: EPOXY PAINT	MILLWORK: CABINETRY, PLAM.	MILLWORK: ADJ. HT. SHELVING	MILLWORK: SOL. SURFACE TOP	MILLWORK: PERFORMANCE TOP	ADDITIONAL FINISHES	SILL: PORC TILE SILL	SILL: OTHER	FINISH NOTE(S)
R100	COMMONS			●				●	●		●	●		●		●	●		●				●			●		F.N. #2, 3, 7, 11, 15, 16, 20, 21
R101	SERVING KITCHEN			●					●		●		●					●			●			●	●			F.N. #2, 9, 10, 11, 12, 13, 14
R102	NUMBER NOT USED					-				-					-				-					-		-		-
R103	JANITOR			●				●			●		●			●												F.N. #13, 18, 25
R104	LAUNDRY			●				●				●	●					●			●		●					F.N. #10, 13
R105	HALLWAY			●				●			●	●				●	●											F.N. #11
R106	STORAGE			●				●			●					●						●						-
R107	TIME AWAY			●					●				●					●										-
R108	RESTROOM	●							●		●		●							●								F.N. #2, 11
R109	RESTROOM	●							●		●		●							●								F.N. #2, 11
R110	MEETING ROOM				●			●				●				●					●		●					F.N. #12
R111	SECURE CHECK-IN			●				●			●	●				●	●									●		F.N. #11
R112	OFFICE				●			●				●				●												F.N. #6, 12
R113	OFFICE				●			●				●				●												F.N. #6, 12
R114	OFFICE				●			●				●				●												F.N. #6, 12
R115	OFFICE				●			●				●				●												F.N. #6, 12
R116	OFFICE				●			●				●				●												F.N. #6, 12
R117	JRF MED ROOM			●				●			●		●			●					●		●					F.N. #10, 12, 13, 14.
R118	LEAD OFFICE				●			●				●				●										●		F.N. #6, 12
R119	HALLWAY			●				●				●				●										●		-
R120	HALLWAY			●				●				●				●												F.N. #12
R121	WORKROOM			●				●				●				●	●		●		●		●	●				F.N. #3, 4, 12, 14, 15, 26
R122	BREAKROOM			●				●			●	●				●					●		●					F.N. #10, 12
R123	VIDEO				●			●				●				●					●		●		●			F.N. #6, 12
R124	VIDEO SERVER				●			●				●				●												-
R125	RESTROOM	●							●		●		●			●	●											F.N. #2, 11
R126	JANITOR		●					●				●		●		●												F.N. #13, 18, 25
R127	RESTROOM	●							●		●		●			●	●											F.N. #2, 11
R128	TRANSPORT				●			●				●				●												F.N. #6, 12
R129	NUMBER NOT USED					-				-					-				-					-		-		-
R130	LOUNGE			●				●			●	●				●	●		●									F.N. #2, 11, 12, 15
R131	DESK			●				●			●	●				●	●		●		●		●	●		●	●	F.N. #8, 11
R132	DORM			●				●				●					●									●		F.N. #12, 24, 25
R133	DORM			●				●				●					●									●		F.N. #12, 24, 25
R134	DORM			●				●				●					●									●		F.N. #12, 24, 25
R135	DORM			●				●				●					●									●		F.N. #12, 24, 25
R136	DORM			●				●				●					●									●		F.N. #12, 24, 25
R137	VESTIBULE			●					●		●	●				●												F.N. #11, 21
R138	STORAGE			●				●				●				●												-
R139	DORM			●				●				●					●									●		F.N. #12, 24, 25
R140	DORM			●				●				●					●									●		F.N. #12, 24, 25
R141	DORM			●				●				●					●									●		F.N. #12, 24, 25
R142	JANITOR			●				●				●		●			●					●						F.N. #18, 25
R143	RESTROOM	●				●		●			●		●	●						●								F.N. #2, 5, 11, 23, 24
R144	RESTROOM	●				●		●			●		●	●						●								F.N. #2, 5, 11, 23, 24
R145	NUMBER NOT USED					-			-						-				-					-		-		-
R146	NUMBER NOT USED					-			-						-				-					-		-		-
R147	NUMBER NOT USED					-			-						-				-					-		-		-
R148	NUMBER NOT USED					-			-						-				-					-		-		-
R149	NUMBER NOT USED					-			-						-				-					-		-		-
R150	LOUNGE			●				●			●	●				●	●		●									F.N. #2, 11, 12, 15
R151	DESK			●				●			●	●				●	●		●		●		●	●		●	●	F.N. #8, 11
R152	DORM			●				●				●					●									●		F.N. #12, 24, 25
R153	DORM			●				●				●					●									●		F.N. #12, 24, 25
R154	DORM			●				●				●					●									●		F.N. #12, 24, 25
R155	DORM			●				●				●					●									●		F.N. #12, 24, 25
R156	DORM			●				●				●					●									●		F.N. #12, 24, 25
R157	VESTIBULE			●					●		●	●				●												F.N. #11, 21
R158	STORAGE			●				●				●				●												-
R159	DORM			●				●				●					●									●		F.N. #12, 24, 25
R160	DORM			●				●				●					●									●		F.N. #12, 24, 25
R161	DORM			●				●				●					●									●		F.N. #12, 24, 25
R162	JANITOR			●				●				●		●			●											F.N. #18, 25
R163	RESTROOM	●				●		●			●		●	●						●								F.N. #2, 5, 11, 23, 24
R164	RESTROOM	●				●		●			●		●	●						●								F.N. #2, 5, 11, 23, 24
R165	NUMBER NOT USED					-			-						-				-					-		-		-
R166	NUMBER NOT USED					-			-						-				-					-		-		-
R167	NUMBER NOT USED					-			-						-				-					-		-		-
R168	NUMBER NOT USED					-			-						-				-					-		-		-
R169	NUMBER NOT USED					-			-						-				-					-		-		-
R170	LOUNGE			●				●			●	●				●	●		●									F.N. #2, 11, 12, 15
R171	DESK			●				●			●	●				●	●		●		●		●	●		●	●	F.N. #8, 11
R172	DORM			●				●				●					●									●		F.N. #12, 24, 25
R173	DORM			●				●				●					●									●		F.N. #12, 24, 25
R174	DORM			●				●				●					●									●		F.N. #12, 24, 25
R175	DORM			●				●				●					●									●		F.N. #12, 24, 25
R176	DORM			●				●				●					●									●		F.N. #12, 24, 25
R177	VESTIBULE			●					●		●	●				●												F.N. #11, 21
R178	STORAGE			●				●				●				●	●											-
R179	DORM			●				●				●					●									●		F.N. #12, 24, 25
R180	DORM			●				●				●					●									●		F.N. #12, 24, 25
R181	DORM			●				●				●					●									●		F.N. #12, 24, 25
R182	JANITOR			●				●				●		●			●											F.N. #18, 25
R183	RESTROOM	●				●		●			●		●	●						●								F.N. #2, 5, 11, 23, 24
R184	RESTROOM	●				●		●			●		●	●						●								F.N. #2, 5, 11, 23, 24

ARCHITECTS

CHRISTOPHER JAMES HANNEY LICENSED KANSAS 8044 REGISTERED PROFESSIONAL ARCHITECT

11/06/26

HANNEY & ASSOCIATES, ARCHITECTS
1726 South Hillside, Wichita, Kansas, 67211
Phone (316) 683-8965
Fax (316) 684-1441

2025 SEDGWICK COUNTY

JUVENILE SERVICES BUILDING

881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED

NO.	DATE	ITEM ISSUED
12	11/6	ADDENDUM #3
11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

DRAWING FILE
SG_JFS_A801.dwg

DATE: MAY 2025

DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

SHEET

A8.1

ROOM FINISH MATRIX

ADDITIONAL MATERIALS NOTED THROUGHOUT COMPLETE SET OF DOCUMENTS.

ROOM ID	JUVENILE FIELD SERVICES- J.F.S. ROOM NAME	FLOOR: FLOOR TILE	FLOOR: SEALED	FLOOR: POLISHED CONC.	FLOOR: CARPET TILE	FLOOR: RESILIENT- LVP	FLOOR: ,	BASE: RUBBER	BASE: TILE	BASE: ,	WALL: TILE	WALL: PAINT	WALL: EPOXY-WB	WALL: WALL PANEL	WALL: SPECIAL FINISH	CEILING: ACOUSTICAL TILE SYSTEM	CEILING: PAINT	CEILING: ,	CEILING: CEILING CLOUD	CEILING: .	MILLWORK: CAB. P-LAM	MILLWORK: ADJ HT SHELVG	MILLWORK: SOL. SURF. TOP	MILLWORK: PERFORM. TOP	MILLWORK: ADD'L FINISH	SILL: PORC. TILE SILL	SILL: OTHER	FINISH NOTE(S) SEE A8.1
H200	OFFICE				●			●				●				●											●		F.N. #1, 6, 12
H201	OFFICE				●			●				●				●	●												F.N. #1, 6, 12
H202	OFFICE				●			●				●				●											●		F.N. #6, 12
H203	HALLWAY				●			●				●					●		●										F.N. #3, 7, 12
H204	OFFICE				●			●				●				●	●												F.N. #1, 6, 12
H205	OFFICE				●			●				●				●											●		F.N. #6, 12
H206	OFFICE				●			●				●				●	●												F.N. #1, 6, 12
H207	STORAGE				●			●				●				●						●							-
H208	OFFICE				●			●				●				●	●												F.N. #1, 6, 12
H209	CONFERENCE ROOM				●			●				●									●		●		●	●			F.N. #12, 14
H210	HALLWAY				●			●				●	●																F.N. #12
H211	OFFICE				●			●				●	●														●		F.N. #6, 12
H212	OFFICE				●			●				●	●														●		F.N. #1, 6, 12
H213	MEETING ROOM				●			●				●	●								●		●					●	F.N. #6, 12
H214	OFFICE				●			●				●																	F.N. #6, 12
H215	OFFICE				●			●				●																	F.N. #6, 12
H216	OFFICE				●			●				●	●														●		F.N. #6, 12
H217	OFFICE				●			●				●															●		F.N. #6, 12
H218	WORKROOM				●			●					●					●		●	●		●		●				F.N. #1, 3, 7, 12, 14, 15, 26
H219	OFFICE				●			●				●	●														●		F.N. #1, 6, 12
H220	OFFICE				●			●				●															●		F.N. #6, 12
H221	HALLWAY					●		●				●	●																F.N. #12
H222	IT NETWORK CLOSET				●			●				●										●							F.N. #1
H223	OFFICE				●			●				●																	F.N. #6, 12
H224	HALLWAY				●			●				●	●																F.N. #12
H225	OFFICE				●			●				●	●														●		F.N. #6, 12
H226	OFFICE				●			●				●															●		F.N. #6, 12
H227	OFFICE				●			●				●																	F.N. #6, 12
H228	OFFICE				●			●				●																	F.N. #6, 12
H229	OFFICE				●			●				●	●														●		F.N. #1, 6, 12
H230	STORAGE					●		●				●															●		-
H231	HALLWAY				●			●				●					●		●		●		●		●				F.N. #3, 7, 26
H232	STORAGE					●		●				●		●		●						●							F.N. #18, 22(PRE-CAST WALL)
H233	BREAKROOM					●		●			●	●				●		●		●		●					●		F.N. #3, 7, 10, 12
H234	HALLWAY					●		●			●	●				●		●											F.N. #2, 3, 7, 12
H235	ALCOVE					●		●	●		●	●				●													F.N. #2, 15
H236	HALLWAY					●		●				●				●													F.N. #3, 7, 12
H237	MEN'S RESTROOM	●							●		●		●			●	●				●		●						F.N. #2, 11, 19
H238	JANITOR		●					●				●		●			●												F.N. #18, 25
H239	WOMEN'S RESTROOM	●							●		●		●			●	●				●		●						F.N. #2, 11, 19
H240	MECHANICAL		●					●				●				●	●												F.N. #22(PRE-CAST WALL)
H241	HALLWAY				●			●				●				●	●												F.N. #12
H242	OFFICE				●			●				●				●											●		F.N. #1, 6, 12
H243	OFFICE				●			●				●				●											●		F.N. #6, 12
H244	NURSING ROOM				●	●		●			●	●				●	●				●		●						F.N. #12
H245	STORAGE				●			●				●				●						●							-
H246	HALLWAY					●		●			●	●					●		●										F.N. #3, 7, 12, 16
H247	CUSTODIAL STORAGE					●		●				●		●		●						●							F.N. #18
H248	OFFICE				●			●				●				●											●		F.N. #6, 12
H249	HALLWAY				●			●				●				●	●												F.N. #12, 22 (PRE-CAST WALL)
H250	OFFICE				●			●				●				●											●		F.N. #6, 12
H251	STORAGE				●			●				●				●						●							F.N. #1
H252	HALLWAY					●		●				●				●	●												F.N. #3, 7, 12
H253	NUMBER NOT USED						-			-					-					-					-		-		-
H254	WAITING ROOM				●			●	●		●	●				●		●				●		●					F.N. #1, 3, 7, 8, 12
H255	STORAGE					●		●				●				●						●							-
H256	MEETING ROOM				●			●				●	●								●		●				●		F.N. #1, 12
H257	OFFICE				●			●				●																	F.N. #6, 12
H258	OFFICE				●			●				●																	F.N. #1, 6, 12
H259	OFFICE				●			●				●																	F.N. #6, 12
H260	NUMBER NOT USED						-			-					-					-					-		-		-
H261	HALLWAY				●			●				●	●																F.N. #12
H262	OFFICE				●			●				●															●		F.N. #6, 12
H263	OFFICE				●			●				●																	F.N. #6, 12
H264	HALLWAY				●			●				●	●																F.N. #12
H265	OFFICE				●			●				●	●														●		F.N. #1, 6, 12
H266	OFFICE				●			●				●															●		F.N. #6, 12
H267	OFFICE				●			●				●															●		F.N. #6, 12
H268	WORKROOM				●			●					●				●		●		●		●		●				F.N. #3, 7, 12, 14, 15, 26
H269	OFFICE				●			●				●	●														●		F.N. #6, 12
H270	OFFICE				●			●				●															●		F.N. #6, 12
H271	OFFICE				●			●				●															●		F.N. #6, 12
H272	HALLWAY				●			●				●	●			●		●		●		●							F.N. #3, 7, 12, 14, 26
H273	OFFICE				●			●				●	●														●		F.N. #1, 6, 12
H274	OFFICE				●			●				●	●														●		F.N. #6, 12
H275	STORAGE					●		●				●										●							FN. -

ID	STAIRS PAINT ALL EXPOSED METAL COMPONENTS INCL: STRINGERS, AND EXPOSED UNDERSIDE OF STAIR U.N.O.	TREAD: RUBBER ST-1	RISER/STRINGER: PAINT	FLOORING: POL CONC 1ST FLR	FLOORING: INTERMEDIATE LAND. RUBBER	FLOORING: CARPET 2ND FLR	FLOORING: LVP-1 2ND FLR	FLOORING: SEAL. CONC. 2ND / 3RD FLR	WALL: PAINT	WALL: .	CEILING: ACOUST. TILE SYSTEM	CEILING: PAINT	CEILING: .	CEILING: CEILING CLOUD	SILL: PORC TILE	SILL: ES-2	FINISH NOTE(S) SEE A8.1
1	FEATURE STAIR	●	●	●	●		●		●			●	●	●	●		F.N. #3, 7, 12, 15
2	STAIR TOWER	●	●	●	●	●			●		●			●			F.N. #1, 12, 15, 21
3	STAIR TOWER	●	●	●	●	●			●		●			●			F.N. #1, 12, 15, 21
4	MECH STAIR	●	●		●			●	●			●					-

ROOM FINISH MATRIX

ADDITIONAL MATERIALS NOTED THROUGHOUT COMPLETE SET OF DOCUMENTS.

ROOM ID	JUVENILE SERVICES-JS/ EVENING REPORTING CENTER- E.R.C ROOM NAME	FLOOR: FLOOR TILE	FLOOR: SEALED	FLOOR: POL CONC.	FLOOR: CARPET TILE	FLOOR: RESILIENT- LVP	FLOOR: ,	BASE: RUBBER	BASE: TILE	BASE: ,	WALL: TILE	WALL: PAINT	WALL: EPOXY-WB	WALL: WALL PANEL	WALL: SPECIAL FINISH	CEILING: ACOUSTICAL TILE SYSTEM	CEILING: PAINT	CEILING: VINYL FACE TILE SYSTEM	CEILING: CEILING CLOUD	CEILING: EPOXY PAINT	MILLWORK: CAB. P-LAM	MILLWORK: ADJ HT SHELVG	MILLWORK: SOL. SURF. TOP	MILLWORK: PERFORM. TOP	MILLWORK: ADD'L FINISH	SILL: PORC TILE SILL	SILL: OTHER	FINISH NOTE(S) SEE A8.1
BI00	VESTIBULE			●					●			●				●												F.N. #21,
BI01	LOBBY			●				●				●		●		●		●						●	●	●		F.N. #1,2,3,7,12,15,25(UPTO 10'AFF),26
BI02	LOCKERS			●				●				●				●		●							●	●		F.N. #3,4,7,8,12,15,25(UPTO 10'AFF),27
BI03	SEATING			●				●				●				●		●								●		F.N. #1,3,7,12,25(UPTO 10'AFF)
BI04	CONTROL DESK				●			●				●				●					●		●	●	●			F.N. # 12, 14, 27
BI05	SEATING			●				●				●	●			●		●			●			●		●		F.N. #1,3,7,12,25(UPTO 10'AFF)
BI06	RESTROOM	●							●		●		●			●	●											F.N. #2, 11
BI07	RESTROOM	●							●		●		●			●	●											F.N. #2, 11
BI08	IT NETWORK CLOSET					●		●				●				●						●						-
BI09	HALLWAY			●				●				●				●	●											F.N. #25
BI10	WORKROOM				●			●				●				●					●		●					F.N. #4, 6, 12, 14, 15
BI11	ELEVATOR					●		●																				ELEV FINISHES PER COUNTY STD
BI12	ELEVATOR EQUIPMENT		●					●				●				●												-
BI13	HALLWAY			●				●			●	●				●												F.N. #3, 7, 25
BI14	HALLWAY			●				●			●	●				●		●							●			F.N. #3, 7, 11
BI15	HALLWAY			●				●			●	●				●		●										F.N. #3, 7, 11, 12, 15, 16
BI16	LAB TOILET	●							●		●		●						●									F.N. #2, 11 (FIELD PAT. ALL WALLS)
BI17	STORAGE-UNDER ST#1		●					●				●				●						●						-
BI18	LAB			●				●			●					●					●		●		●		●	F.N. #10, 14, 25
BI19	CONFERENCE ROOM				●			●				●		●		●	●				●		●		●			F.N. #6, 12, 14, 15, 17
BI20	STORAGE				●			●				●		●		●												F.N. #18
BI21	CONFERENCE ROOM				●			●				●			●	●					●		●		●			F.N. #6, 12, 14, 15, 17
BI22	STORAGE				●			●				●		●		●												F.N. #18
BI23	HALLWAY			●				●			●	●					●		●									F.N. #2, 3, 7, 11
BI24	WOMEN'S RESTROOM	●							●		●	●				●	●				●		●					F.N. #2, 11, 19, 25
BI25	JANITOR		●					●				●		●		●						●						F.N. #1, 18
BI26	MEN'S RESTROOM	●							●		●	●				●	●				●		●					F.N. #2, 11, 19, 25
BI27	MULTI-PURPOSE			●				●				●				●					●	●	●	●				F.N. #6, 12, 14, 16
BI28	GAME AREA			●				●				●				●					●		●				●	F.N. #6, 12, 14
BI29	DAYROOM			●				●				●				●					●		●		●			F.N. #12, 20
BI30	SERVING KITCHEN			●					●		●		●					●			●		●	●	●			F.N. #2, 9, 10, 11, 13, 14
BI31	STORAGE			●				●				●						●				●						F.N. #25, 28
BI32	MULTI-PURPOSE			●				●				●				●									●			F.N. #6, 12
BI33	NUMBER NOT USED						-			-				-					-					-		-		-
BI34	HALLWAY			●				●			●	●				●	●								●			F.N. #2, 11, 15, 21
BI35	HALLWAY			●				●			●	●				●	●											F.N. #2, 11, 15
BI36	HALLWAY			●				●			●	●				●	●											F.N. #2, 11, 15
I	RAMP			●	●			●			●	●				●	●											F.N. #11, 15, 21
BI37	MECHANICAL		●					●				●				●												F.N. #25
BI38	NUMBER NOT USED						-			-				-					-					-		-		-
BI39	NUMBER NOT USED						-			-				-					-					-		-		-
BI40	GYM | FEMA SHELTER			●				●			●	●		●	●													F.N. #2, 11, 15, 22, 29, 30
BI41	VESTIBULE			●				●			●	●					●											F.N. #2, 11, 15
BI42	STORAGE		●					●				●				●												-
BI43	RESTROOM	●							●		●		●						●									F.N. #2, 11
BI44	RESTROOM	●							●		●		●						●									F.N. #2, 11
BI45	VESTIBULE			●				●			●	●					●											F.N. #2, 11
BI46	COURTYARD-EXTERIOR																											SEE EXTERIOR
BI47	MULTI-RR ALCOVE			●				●	●		●	●				●												F.N. #2, 11, 15
BI48	STORAGE-UNDER ST#2		●					●				●				●						●						-
BI49	NUMBER NOT USED						-			-				-					-					-		-		-
BI90	RISER		●					●				●				●												-
BI91	ELECTRICAL		●					●				●				●												-

ROOM ID	HOME BASED SERVICES H.B.S. ROOM NAME	FLOOR: FLOOR TILE	FLOOR: SEALED	FLOOR: POL CONC.	FLOOR: CARPET TILE	FLOOR: ,	BASE: RUBBER	BASE: TILE	BASE: ,	WALL: TILE	WALL: PAINT	WALL: EPOXY-WB	WALL: WALL PANEL	WALL: SPECIAL FINISH	CEILING: ACOUSTICAL TILE SYSTEM	CEILING: PAINT	CEILING: ,	CEILING: CLG CLOUD	CEILING: .	MILLWORK: CAB. P-LAM	MILLWORK: ADJ HT SHLVG	MILLWORK: SOL. SURF. TOP	MILLWORK: ,	MILLWORK: ADD'L FINISH	SILL: PORC TILE	SILL: OTHER	FINISH NOTE(S) SEE A8.1
FI00	SEATING			●	●		●				●				●	●											F.N. #12, 25, 31
FI01	INTERVIEW			●			●				●				●												F.N. #6, 12, 25
FI02	INTERVIEW			●			●				●				●												F.N. #6, 12, 25
FI03	HALLWAY			●			●				●				●	●											F.N. #12
FI04	OFFICE				●		●				●				●										●		F.N. #6, 12
FI05	OFFICE				●		●				●				●										●		F.N. #6, 12
FI06	OFFICE				●		●				●				●										●		F.N. #6, 12
FI07	OFFICE				●		●				●				●										●		F.N. #6, 12
FI08	OFFICE				●		●				●				●										●		F.N. #6, 12
FI09	BREAKROOM			●			●			●	●				●	●				●		●					F.N. #10, 12
FI10	RESTROOM	●						●		●		●			●	●											F.N. #2, 11
FI11	WORKROOM			●			●				●				●	●		●		●		●		●			F.N. #3, 12, 14, 15, 26
FI12	HALLWAY			●			●				●				●					●		●			●		F.N. #12
FI13	OFFICE				●		●				●				●										●		F.N. #6, 12
FI14	OFFICE				●		●				●				●										●		F.N. #6, 12
FI15	HALLWAY			●			●				●				●												F.N. #12, 21
FI16	OFFICE				●		●				●				●										●		F.N. #6, 12
FI17	STORAGE			●			●				●				●					●							-
FI18	HALLWAY			●			●				●				●												F.N. #12

ID	EXISTING BUILDING - B ROOMS SHOWN ON SHEET A1.14	FLOOR: REPAIR/ PATCH MATCH EXISTING	FLOOR: NEW WALK-OFF CARPET	FLOOR: NEW CARPET MATCH EXISTING	BASE: REPAIR/ PATCH MATCH EXISTING	BASE: NEW RUBBER BASE	WALL: NEW PAINT	WALL: REPAIR/ PATCH MATCH EXISTING	CEILING: NEW SYSTEM ACOUST. TILE AS REQ'D	CEILING: PAINT	CEILING: REPAIR/ PATCH MATCH EXISTING	FINISH NOTE(S) SEE A8.1
001	HALL		●			●		●			●	SEE SCOPE OF WORK ON DWG.
002	STORAGE			●		●	●		●		●	SHEET A1.14
VARIES	OFFICE	●			●			●			●	
-	HALL	●			●			●			●	

ARCHITECTS

CHRISTOPHER JAMES HANNEY
LICENSED
8044
KANSAS
PROFESSIONAL ARCHITECT

11/06/26

HANNEY & ASSOCIATES, ARCHITECTS
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Phone (316) 683-8965
Fax (316) 684-1441

2025 SEDGWICK COUNTY

JUVENILE SERVICES BUILDING
881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED		
NO.	DATE	ITEM ISSUED
12	11/6	ADDENDUM #3
11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

DRAWING FILE
SC_JFS_A802.dwg

DATE: MAY 2025
DRAWN BY: FH, TH, CH, MH
CHECKED BY: MH

SHEET
A8.2

FLOOR FINISH LEGEND:

HATCH	DESCRIPTION	MATERIAL	
	- PORC FLOOR TILE, SEE PATTERN 3/A8.9, TYP, UNO: SEE PERIMETER JOINT DETAIL 30/A8.10.TYP APPLY PERIMETER JOINT ON ALL PERIMETER WALLS.	FT-1A/FT-1B FT-2 FT-3A/FT-3B	SHEET: A8.0
	- MECHANICALLY POLISHED CONCRETE: INCLUDE SEMI-RIGID JOINT FILLER:	POL. CONC	SHEET: A8.0
	- MECHANICALLY POLISHED CONCRETE WITH GRIT ADDITITVE:		
	- SEALED CONC FLOOR FINISH INCLUDE SEMI-RIGID JOINT FILLER:	SC-1	SHEET: A8.0
	- RECESSED FLOOR SLAB TO ACHIEVE ZERO THRESHOLD AT SHOWER PAN W/TRENCH DRAIN COVER :	DTL A SEE PLUMBING FOR ACTUAL	SHEET: A8.12
	- CARPET TILE, SEE PATTERN 1/A8.9:	CPT-1A/CPT-1B CPT-3A/CPT-3B	SHEET: A8.0
	- WALK-OFF MAT W/ PERIMETER RUBBER REDUCER.TYP,UNO. CPT-3A CPT-3A WHR NOTED. INSTALLS ONTOP OF POL. CONC FLR. CPT-2[A|B]		SHEET: A8.0
	- RUBBER FLOORING, SEE PATTERN 4/A8.9	ST-1A/ST-1B	SHEET: A8.0
	- LUXURY VINYL PLANK:	LVP-1/LVP-2	SHEET: A8.0
	- PATTERN STARTING POINT		
	- SYMBOL REPRESENTS APPROX LOCATION OF RECESSED ELEC IN THE FLOOR. SEE ELECTRICAL FOR ACTUAL INFO AND QUANTITY/LOCATION.		
EJ	- EXPANSION JOINT: APPLY TO FIELD CONDITION, SEE DETAILS 26-29/A8.10. GENERALLY APPLIED 27/A8.10		
XX	CO = CLEAN OUT. SEE PLUMBING FD = FLOOR DRAIN. SEE PLUMBING BD & FS: REF TO PLUMBING CENTER ON TILED PATTERN WHR OCCURS	TILE: 3/A8.11 | CONC: 5/A8.11 TILE: 2/A8.11 | CONC: 4/A8.11	

KEYED FINISH NOTES:

MARK	DESCRIPTION	DETAIL
1.	THRESHOLD DETAIL FOR EXTERIOR DOOORS	2/A3.0
2.	FLOOR TILE SETTING BED- WATERPROOF MEMBRANE	14/A8.11
3.	HINGED FLOOR ACCESS DOOR INSET FOR FLUSH INSTALLATION	SEE M/E/P DRAWINGS
4.	INTEGRAL HOUSEKEEPING PAD,U.N.O. SIZED TO ACCOMMODATE EQUIPMENT SHOWN.	REF TO STRUCTURE AND M/E/P
5.	COURT LINES: SEE DIMENSION AND COLORS ON ENLARGED PLAN	A/A8.5
6.	FLOOR PREP AT RESILENT AND CARPET FLOOR COVERING.	7/A8.11
7.	FLOOR TILE SETTING BED- CRACK ISOLATION MEMBRANE	15/A8.11
8.	COUNTY SEAL - WATERJET CUT. FLOORING MATERIAL TYPE AND COLOR VARIES	5/A8.9
9.	PERIMETER JOINT: FIXED BUILDING ELEMENTS. SEE MATERIAL TR-4	12/A8.4
10.	LOCKER BASE SOLID WOOD FRAMING BY G.C.: 8"H, UNO	-

FLOOR TRANSITION LEGEND:

[XX] - FLOORING TRANSITION, REFERENCE DETAILS:

MARK	DESCRIPTION	MATERIAL	DETAIL
[1.]	RUBBER REDUCED HEIGHT TRANSITION:	TR-1/A8.0	5/A8.4
[2.]	METAL REDUCED HEIGHT TRANSITION:	TR-5/A8.0	6/A8.4
[3.]	RAMPED THRESHOLD :	TR-3/A8.0	7/A8.4
[4.]	STAIR TREAD:	ST-1A/A8.0	9/A8.4
[5.]	LANDING TRIM EDGE:	DTLS/A5.12	1/A8.4
[6.]	EXPANSION JOINT:	TR-6/A8.0	8/A8.4
[7.]	EDGE GUARD REDUCER:	TR-2A/A8.0	3/A8.4
[8.]	EDGE GUARD SAME HEIGHT:	TR-2B/A8.0	4/A8.4
[9.]	SEAL JOINT AT TRANSITION:	CLEAR 4062 SEAM SEALER	
[10.]	PERIMETER EDGE, RUBBER REDUCER:	ROPPE #21	2/A8.4

GENERAL FLOOR FINISH NOTES:

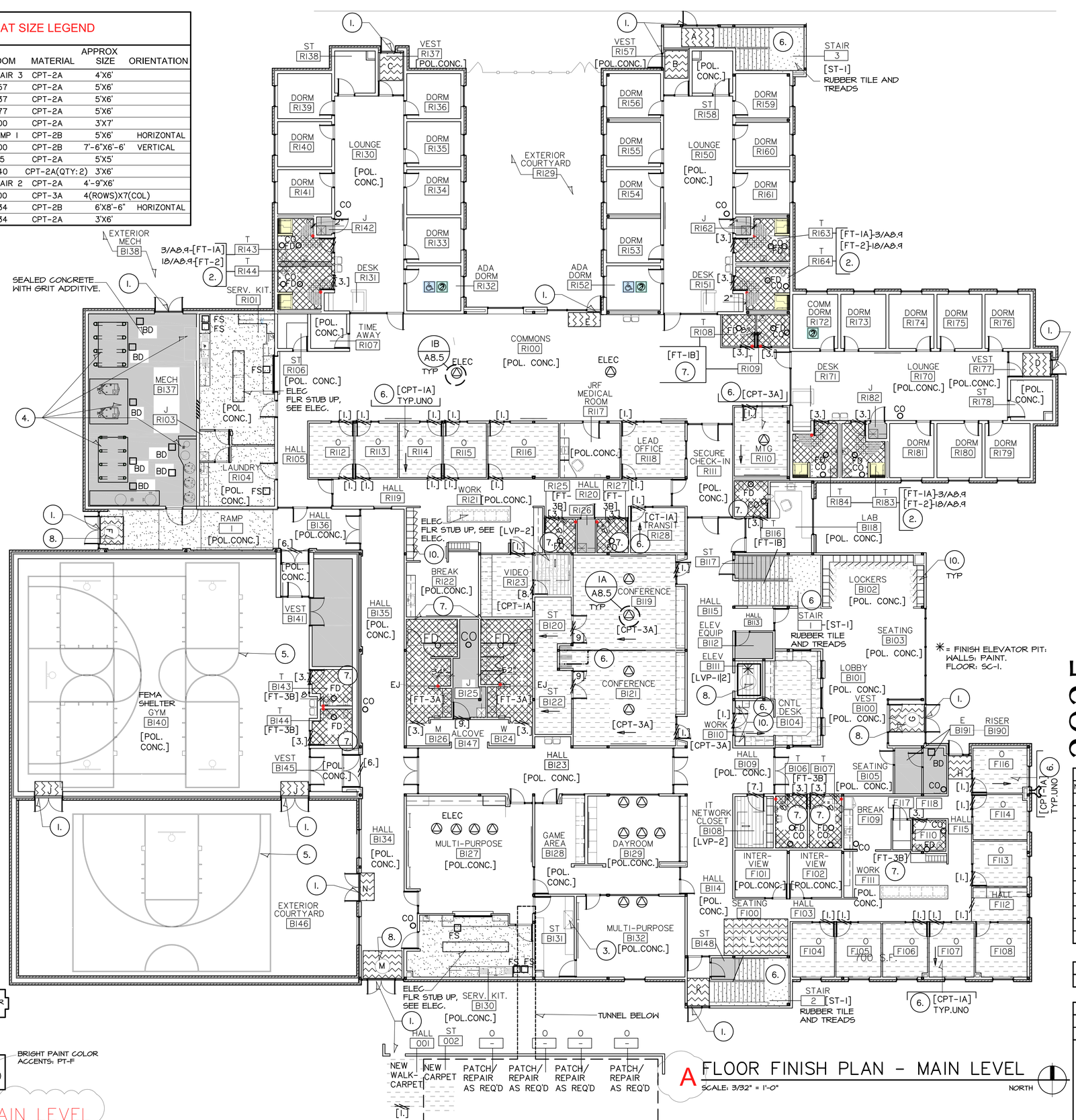
SEE GENERAL FLOOR FINISH NOTES/A8.5

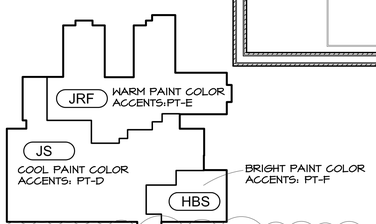
DEPARTMENT ID LEGEND:

MARK	DESCRIPTION	ROOM #
JRF	= JUVENILE RESIDENTIAL FACILITY - J.R.F. AREAS. - MAIN LEVEL	R##
JS	= JUVENILE SERVICES - MAIN LEVEL - GENERAL USE / SHARED AREAS.	B##
HBS	= HOME BASED SERVICES - MAIN LEVEL - H.B.S. AREAS - EVENING REPORTING CENTER E.R.C.	F##
JFS	= JUVENILE FIELD SERVICES - J.F.S. AREAS.- SECOND LEVEL	H##

MAT SIZE LEGEND

ID	ROOM	MATERIAL	APPROX SIZE	ORIENTATION
A	STAIR 3	CPT-2A	4'X6'	
B	RI57	CPT-2A	5'X6'	
C	RI37	CPT-2A	5'X6'	
D	RI77	CPT-2A	5'X6'	
E	RI00	CPT-2A	3'X7'	
F	RAMP 1	CPT-2B	5'X6'	HORIZONTAL
G	BI00	CPT-2B	7'-6"X6'-6'	VERTICAL
H	FII5	CPT-2A	5'X5'	
J	BI40	CPT-2A(QTY: 2)	3'X6'	
K	STAIR 2	CPT-2A	4'-9"X6'	
L	FI00	CPT-3A	4(ROWS)X7(COL)	
M	BI34	CPT-2B	6'X8'-6"	HORIZONTAL
N	BI34	CPT-2A	3'X6'	





KEY PLAN - MAIN LEVEL

NOT TO SCALE

A FLOOR FINISH PLAN - MAIN LEVEL

SCALE: 3/32" = 1'-0" NORTH

ARCHITECTS

CHRISTOPHER JAMES HANNEY LICENSED ARCHITECT 8044 KANSAS PROFESSIONAL ARCHITECT

11/06/26

HANNEY & ASSOCIATES, ARCHITECTS
1726 South Hillside, Wichita, Kansas, 67211
Phone (316) 683-8965
Fax (316) 684-1441

2025 SEDGWICK COUNTY

JUVENILE SERVICES BUILDING

881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED

NO.	DATE	ITEM ISSUED
12	11/6	ADDENDUM #3
11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

DRAWING FILE

SC_JFS_A803.dwg

DATE: MAY 2025	
DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

SHEET

A8.3

FLOOR FINISH LEGEND:

HATCH	DESCRIPTION	MATERIAL	
	- PORC FLOOR TILE, SEE PATTERN 3/A8.9, TYP, UNO: SEE PERIMETER JOINT DETAIL 30/A8.10.TYP APPLY PERIMETER JOINT ON ALL PERIMETER WALLS.	FT-1A/FT-1B FT-2 FT-3A/FT-3B	SHEET: A8.0
	- MECHANICALLY POLISHED CONCRETE: INCLUDE SEMI-RIGID JOINT FILLER:	POL. CONC	SHEET: A8.0
	- MECHANICALLY POLISHED CONCRETE WITH GRIT ADDITITVE:		
	- SEALED CONC FLOOR FINISH INCLUDE SEMI-RIGID JOINT FILLER:	SC-1	SHEET: A8.0
	- RECESSED FLOOR SLAB TO ACHIEVE ZERO THRESHOLD AT SHOWER PAN W/TRENCH DRAIN COVER :	DTL A	SHEET: A8.12
		SEE PLUMBING FOR ACTUAL	
	- CARPET TILE, SEE PATTERN 1/A8.9:	CPT-1A/CPT-1B CPT-3A/CPT-3B	SHEET: A8.0
	- WALK-OFF MAT W/ PERIMETER RUBBER REDUCER.TYP,UNO. CPT-3A WHR NOTED. INSTALLS ONTOP OF POL. CONC FLR.	CPT-2[A|B]	SHEET: A8.0
	- RUBBER FLOORING, SEE PATTERN 4/A8.9	ST-1A/ST-1B	SHEET: A8.0
	- LUXURY VINYL PLANK:	LVP-1/LVP-2	SHEET: A8.0
	- PATTERN STARTING POINT		
	- SYMBOL REPRESENTS APPROX LOCATION OF RECESSED ELEC IN THE FLOOR. SEE ELECTRICAL FOR ACTUAL INFO AND QUANTITY/LOCATION.		
EJ	- EXPANSION JOINT: APPLY TO FIELD CONDITION, SEE DETAILS 26-29/A8.10. GENERALLY APPLIED 27/A8.10		
XX	CO = CLEAN OUT. SEE PLUMBING	TILE: 3/A8.11 | CONC: 5/A8.11	
	FD = FLOOR DRAIN. SEE PLUMBING	TILE: 2/A8.11 | CONC: 4/A8.11	
	BD & FS: REF TO PLUMBING		
	CENTER ON TILED PATTERN WHR OCCURS		

KEYED FINISH NOTES:

MARK	DESCRIPTION	DETAIL
1.	THRESHOLD DETAIL FOR EXTERIOR DOOORS	2/A3.0
2.	FLOOR TILE SETTING BED- WATERPROOF MEMBRANE	14/A8.11
3.	HINGED FLOOR ACCESS DOOR INSET FOR FLUSH INSTALLATION	SEE M/E/P DRAWINGS
4.	INTEGRAL HOUSEKEEPING PAD,U.N.O. SIZED TO ACCOMMODATE EQUIPMENT SHOWN.	REF TO STRUCTURE AND M/E/P
5.	COURT LINES: SEE DIMENSION AND COLORS ON ENLARGED PLAN	A/A8.5
6.	FLOOR PREP AT RESILENT AND CARPET FLOOR COVERING.	7/A8.11
7.	FLOOR TILE SETTING BED- CRACK ISOLATION MEMBRANE	15/A8.11
8.	COUNTY SEAL - WATERJET CUT. FLOORING MATERIAL TYPE AND COLOR VARIES	5/A8.9
9.	PERIMETER JOINT: FIXED BUILDING ELEMENTS. SEE MATERIAL TR-4	12/A8.4
10.	LOCKER BASE SOLID WOOD FRAMING BY G.C.: 8"H, UNO	-

FLOOR TRANSITION LEGEND:

[XX] FLOORING TRANSITION, REFERENCE DETAILS:

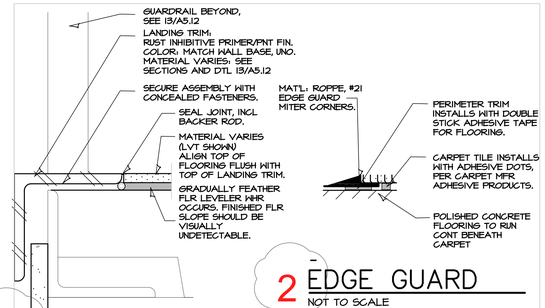
MARK	DESCRIPTION	MATERIAL	DETAIL
[1.]	RUBBER REDUCED HEIGHT TRANSITION:	TR-1/A8.0	5/A8.4
[2.]	METAL REDUCED HEIGHT TRANSITION:	TR-5/A8.0	6/A8.4
[3.]	RAMPED THRESHOLD :	TR-3/A8.0	7/A8.4
[4.]	STAIR TREAD:	ST-1A/A8.0	9/A8.4
[5.]	LANDING TRIM EDGE:	DTLS/A5.12	1/A8.4
[6.]	EXPANSION JOINT:	TR-6/A8.0	8/A8.4
[7.]	EDGE GUARD REDUCER:	TR-2A/A8.0	3/A8.4
[8.]	EDGE GUARD SAME HEIGHT:	TR-2B/A8.0	4/A8.4
[9.]	SEAL JOINT AT TRANSITION:	CLEAR 4062 SEAM SEALER	
[10.]	PERIMETER EDGE, RUBBER REDUCER:	ROPPE #21	2/A8.4

GENERAL FLOOR FINISH NOTES:

SEE GENERAL FLOOR FINISH NOTES/A8.5

DEPARTMENT ID LEGEND:

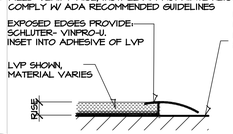
MARK	DESCRIPTION	ROOM #
JRF	= JUVENILE RESIDENTIAL FACILITY - J.R.F. AREAS. - MAIN LEVEL	R##
JS	= JUVENILE SERVICES - MAIN LEVEL - GENERAL USE / SHARED AREAS.	B##
HBS	= HOME BASED SERVICES - MAIN LEVEL - H.B.S. AREAS - EVENING REPORTING CENTER E.R.C.	F##
JFS	= JUVENILE FIELD SERVICES - J.F.S. AREAS.- SECOND LEVEL	H##



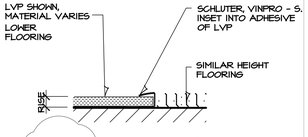
1 LANDING EDGE
NOT TO SCALE

2 EDGE GUARD
NOT TO SCALE

FIELD VERIFY RISE, INSTALL APPROPRIATE HEIGHT., COMPLY W/ ADA RECOMMENDED GUIDELINES

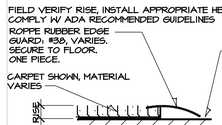


MATERIAL - TR-2(A)/A8.0
3 EDGE GUARD
NOT TO SCALE

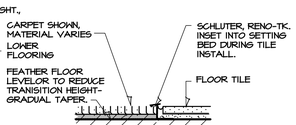


MATERIAL - TR-2(B)/A8.0
4 EDGE GUARD
NOT TO SCALE

FIELD VERIFY RISE, INSTALL APPROPRIATE HEIGHT., COMPLY W/ ADA RECOMMENDED GUIDELINES

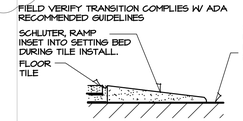


MATERIAL - TR-1/A8.0
5 EDGE GUARD
NOT TO SCALE

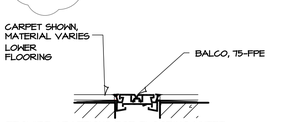


MATERIAL - TR-5/A8.0
6 EDGE GUARD
NOT TO SCALE

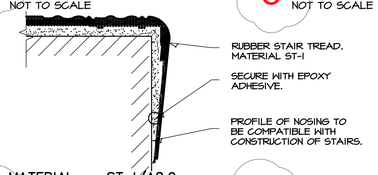
FIELD VERIFY TRANSITION COMPLIES W/ ADA RECOMMENDED GUIDELINES



MATERIAL - TR-3/A8.0
7 RAMP REDUCER
NOT TO SCALE

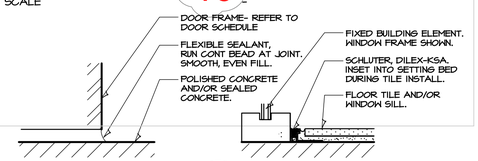


MATERIAL - TR-6/A8.0
8 EXPANSION JOINT
NOT TO SCALE



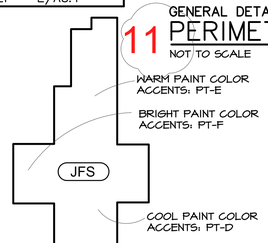
MATERIAL - ST-1/A8.0
9 STAIR NOSING
NOT TO SCALE

10 DETAIL NOT USED

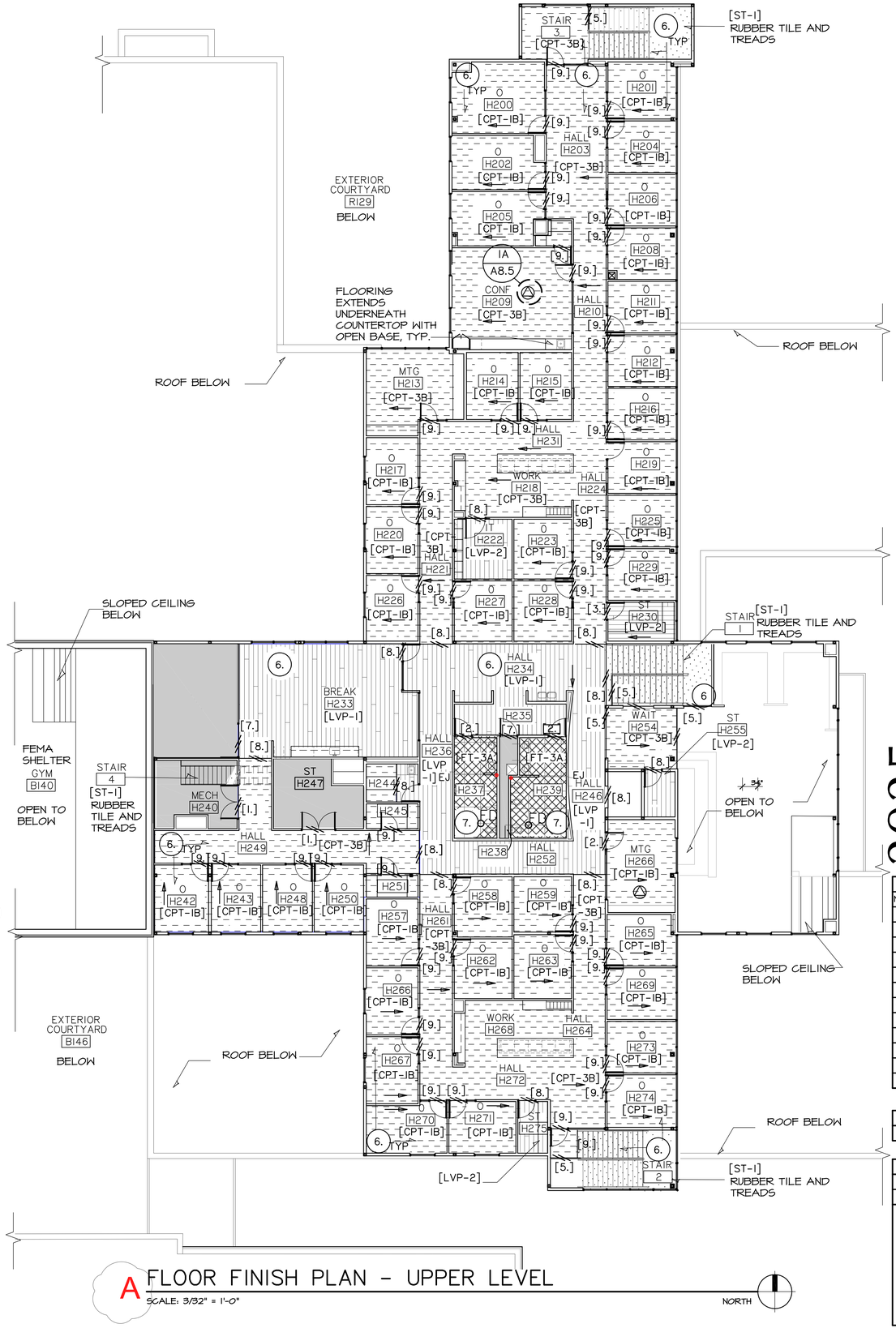


GENERAL DETAIL
11 PERIMETER JOINT
NOT TO SCALE

MATERIAL - TR-4/A8.0
12 PERIMETER JOINT
NOT TO SCALE



DEPARTMENT ID
KEY PLAN - UPPER LEVEL
NOT TO SCALE



A FLOOR FINISH PLAN - UPPER LEVEL
SCALE: 3/32" = 1'-0"

NORTH

ARCHITECTS

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11/06/26

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DRAWING FILE
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DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

SHEET
A8.4

GENERAL FLOOR FINISH NOTES

A. CODE-REQUIRED LABELS SUCH AS "UL", FACTORY MUTUAL OR EQUIP ID, PERFORMANCE RATING, NAME OR NOMENCLATURE PLATE SHALL REMAIN READABLE, NOT PAINTED.

B. SEE M/E/P DRAWINGS TO LOCATE FLOOR DRAINS, CLEAN-OUTS, ELECTRICAL FLOOR BOXES, FLOOR ACCESS PANELS. GRADUALLY TAPER FLOOR TO FLOOR DRAINS TO COMPLY WITH ADA CROSS SLOPES GUIDELINES. INSET REMAINING COVERS/DOORS TO BE FLUSH WITH FINISHED FLOORING.

C. AREAS BENEATH/BEHIND EQUIP. & CABINETRY, FURNITURE AND FLOATING/CANTILEVERED BUILT-INS, ETC: INSTALLER TO EXTEND NEW FINISH TO COVER OPEN AREA AT VIEWABLE AREAS ONLY, U.N.O.

D. SUBFLOOR SHALL PASS THE IN-SITU RELATIVE HUMIDITY TESTING PRIOR TO FLOOR MAT'L INSTALLATION. SLAB TO BE TESTED MUST MEET ASTM F2170. THE G.C. IS RESPONSIBLE FOR ENSURING THE TEST RESULT IS WITHIN AN ACCEPTABLE LEVEL. APPROVED LEVELS ARE ESTABLISHED BY MANUF. OF PRODUCT TO BE INSTALLED.

E. PROPER CURING/DRYING OF UNDERLAYMENTS PRIOR TO APPLICATION OF TILE IS CRITICAL FOR PROPER PERFORMANCE.

F. ALL WORK COMPLETED BY THE GENERAL CONTRACTOR AND FLOORING SUBCONTRACTOR SHALL MAINTAIN THE FINISH MATERIAL'S WARRANTY.

G. CONTR SHALL PREPARE THE SUB-SURFACE IN THE MANNER OUTLINED IN THE MANF'S TECHNICAL/INSTALLATION GUIDELINES FOR THE NEW FINISH FLOORING

H. CRACK ISOLATION/UNCOUPLING MEMBRANE SHALL BE PROVIDED & INSTALLED WHERE FLOOR TILE IS SPECIFIED, U.N.O. MEMBRANE : FULL ROOM COVERAGE APPLICATION

J. SHOWER AREA IN DORM RESTROOMS: PREPARATION TO SUB SURFACES TO INCLUDE FULL COVERAGE OF WATERPROOF MEMBRANE.

K. FLOORING MATERIAL TRANSITIONS OCCUR AT DOOR OPENINGS, LOCATE TRANSITION BENEATH CENTERLINE OF DOOR THICKNESS, U.N.O.

L. PREP WORK THAT INCLUDES PATCH WORK WITH LEVELING COMPOUNDS AND/OR PRIMERS, PREP WORK SHALL BE COMPATIBLE WITH THE FINISH FLOORING AND SETTING MATERIAL'S 'MANUFACTURE RECOMMENDED GUIDELINES'.

M. SETTING: PRIMERS, ADHESIVE, SEALERS, MORTARS, GROUT, ETC. SHALL BE COMPATIBLE, DO NOT VOID WARRANTY. ACHIEVE LIMITED LIFETIME WARRANTY AT TILE INSTALLS.

N. SPECIAL PROVISIONS TAKEN TO ADHERE EDGE OF CARPET TILE WHR EDGE BORDERS TRANSITION AND AT FLOOR BOXES, PER FINISH MFR'S GUIDELINES. SEE MFR'S RECOMMENDATION FOR MAT'LS TO SECURE EDGES. EXTRA ADHESION AT THE EDGE IS IN ADDITION TO THE FULL SPREAD PRESSURE SENSITIVE ADHESIVE APPLICATION.

P. CARPET INSTALLATION TO COMPLY WITH CARPET & RUG INSTITUTE FOR COMMERCIAL CARPET INSTALLATION, CURRENT EDITION. PROPERLY PREPARE FLOORS NOTED TO RECEIVE CARPET. REF TO DETAIL 7/A8.11, U.N.O.

Q. EXPOSED SEALED CONCRETE/MECHANICALLY POLISHED CONCRETE SHALL HAVE CONCRETE JOINTS CAULKED. PROVIDE ADDITIONAL PREP TO CLEAN, FILL AND SMOOTH OUT JOINTS. REF TO SPEC SECTION

R. AREAS SCHEDULED TO RECEIVE PORC/CERAMIC TILE FINISH: CONTR SHALL FIELD VERIFY LOCATION & SIZE OF EXPANSION & MOVEMENT JOINTS (EX: AT STRUC FOOTINGS). PROVIDE ADDITIONAL PREP AT JOINTS IN ACCORDANCE WITH CURRENT EDITION OF TCNA GUIDELINES

S. G.C. TO PROVIDE/CONSTRUCT SOLID WD BASE FRAMEWORK FOR BASE CABINETRY AND LOCKERS. FRAMEWORK HEIGHT VARIES: 4", 6", & 8", U.N.O.. COORDINATE WITH MILLWORK AND EQUIP.

T. RUBBER COVE BASE: COIL LENGTHS AND SEGMENTED LENGTHS IN PROJECT SCOPE. APPLY RUBBER COVE BASE WHERE SHOWN ON ELEVATIONS TO INCLUDE: BUILT-IN BASE CABINETS, LOCKER BASES, EXPOSED STRUC COLUMNS, ETC. U.N.O. TILE

U. INTEGRAL HOUSEKEEPING PAD: FINISH MATERIAL : SEALED CONC. SC-1. LOCATE ON STRUCTURAL DRAWINGS.

V. GC SHALL PROVIDE ALL NECESSARY PROTECTION TO NEW WORK FROM DAMAGE AND DUST UNTIL PROJECT COMPLETES.

W. FEATHER SETTING MATERIALS, GRADUALLY: WHERE DIFFERENT HEIGHT FINISH MATERIALS TRANSITION. METHODS ARE TO ACHEIVE A REDUCED TRANSITION HEIGHT WHERE POSSIBLE.

X. BOLTING/ANCHORING FOR FURNITURE IN JRF'S DORMS AND LOUNGE FURNITURE IS BY 'OTHERS'. G.C. TO COORDINATE BOLTED FURNITURE LOCATION AND POTENTIAL OBSTRUCTIONS PRIOR TO CONSTRUCTION. GENERNALLY APPLIED COORDINATION FOR G.C.: UTILITIES AND/OR SERVICES SHALL NOT BE PLACED IN A MANNER THAT BECOMES OBSTRUCTED ONCE FURNITURE/EQUIPMENT/ETC IS INSTALLED. G.C. TO CONFIRM OWNER PROVIDED FURNITURE LAYOUT PRIOR TO CONSTRUCTION AS FURNITURE LAYOUT ON A9.1 AND A9.2 HAS TENTATIVE LOCATIONS SHOWN.

1A. FLOOR FINISHED WITH FLOOR COVERING MATERIAL

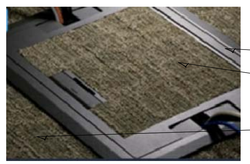


IMAGE REPRESENTS LID WITH FLOOR COVERING INSERT, REF TO ELECTRICAL SPEC FOR ACTUAL PRODUCT INFO.

POLISHED CONCRETE FLOOR

RECESSED FLOOR BOX - SEE ELECTRICAL.

LID TO INCLUDE RECESSED CAVITY FOR FLOOR COVERING INSERT. G.C. TO COORDINATE. FLOOR COVERING INSERT SHALL APPEAR TO RUN CONT TO ROOM FLOOR FINISH.

FLOORING MATERIAL VARIES, CARPET SHOWN IN IMAGE. SEE EXCEPTION BELOW FOR POLISHED CONCRETE FLOOR BOXES.

RECESSED FLOOR BOX - SEE ELECTRICAL.

LID TO BE VANDAL RESISTANT / CORROSIVE RESISTANT AND FLUSH WITH CONCRETE FLOOR.

1B. POLISHED CONCRETE FLOOR

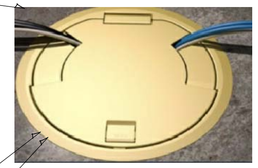


IMAGE REPRESENTS LID WITHOUT FLOOR COVERING INSERT, REF TO ELECTRICAL SPEC FOR ACTUAL PRODUCT INFO.

1 POWERED FLOOR BOX - SEE ELECTRICAL FOR ACTUAL FLOOR BOXES

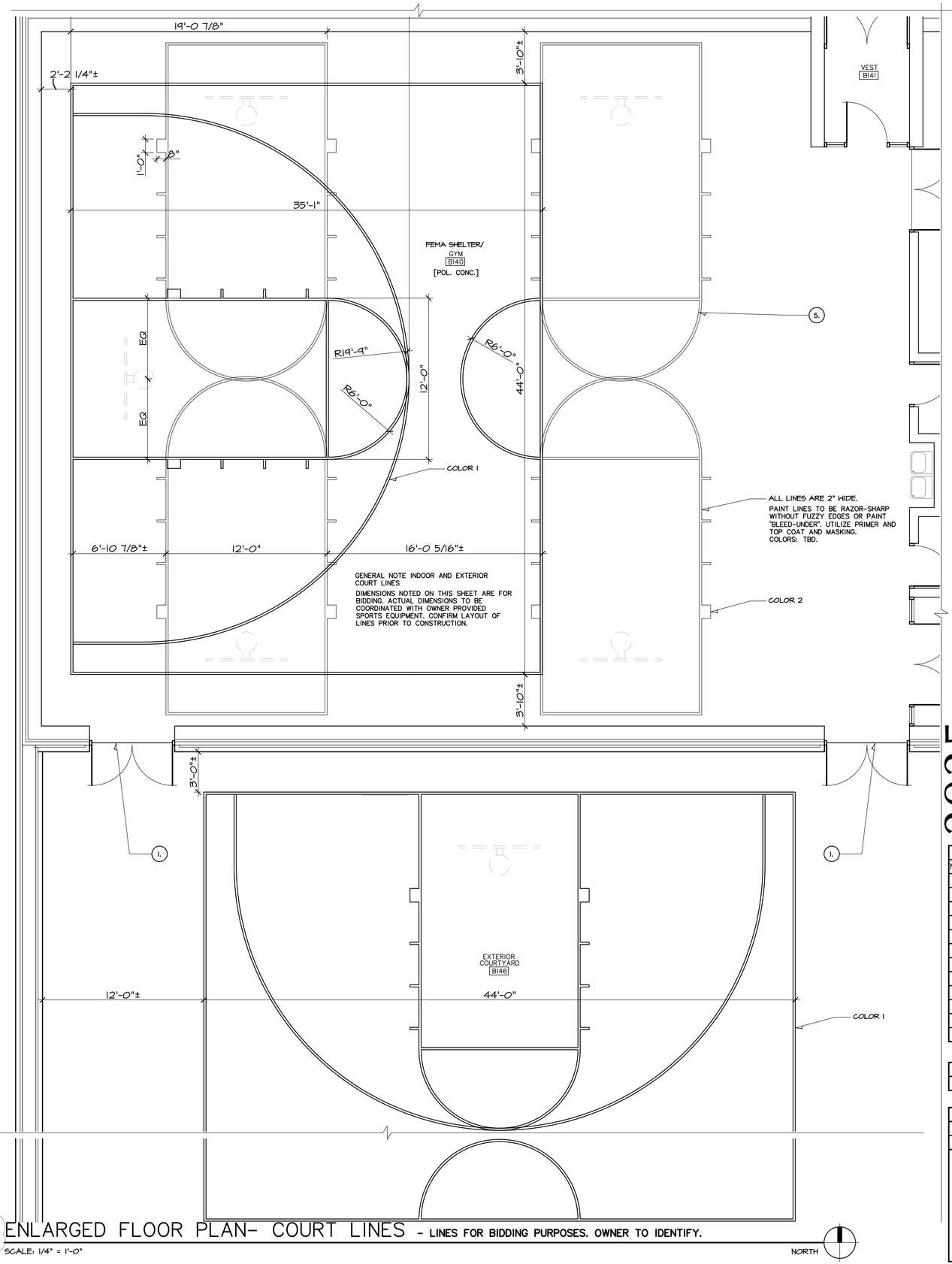
NOT TO SCALE

FLOOR TRANSITION LEGEND, FLOOR FINISH LEGEND AND MAT SIZE LEGEND

SEE SHEET A8.3 AND A8.4

KEYED FINISH NOTES:

MARK	DESCRIPTION	DETAIL
1.	THRESHOLD DETAIL FOR EXTERIOR DOOORS	2/A3.0
2.	FLOOR TILE SETTING BED- WATERPROOF MEMBRANE	14/A8.11
3.	HINGED FLOOR ACCESS DOOR INSET FOR FLUSH INSTALLATION	SEE M/E/P DRAWINGS
4.	INTEGRAL HOUSEKEEPING PAD,U.N.O. SIZED TO ACCOMMODATE EQUIPMENT SHOWN.	REF TO STRUCTURE AND M/E/P
5.	COURT LINES: SEE DIMENSION AND COLORS ON ENLARGED PLAN	A/A8.5
6.	FLOOR PREP AT RESILENT AND CARPET FLOOR COVERING.	7/A8.11
7.	FLOOR TILE SETTING BED- CRACK ISOLATION MEMBRANE	15/A8.11
8.	COUNTY SEAL - WATERJET CUT. FLOORING MATERIAL TYPE AND COLOR VARIES	5/A8.9
9.	PERIMETER JOINT: FIXED BUILDING ELEMENTS. SEE MATERIAL TR-4	12/A8.4
10.	LOCKER BASE SOLID WOOD FRAMING BY G.C.: 8"H, UNO	-



A ENLARGED FLOOR PLAN- COURT LINES - LINES FOR BIDDING PURPOSES. OWNER TO IDENTIFY.

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

NORTH

ARCHITECTS

CHRISTOPHER JAMES HANNEY LICENSED KANSAS 8044 PROFESSIONAL ARCHITECT

11/06/26

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DRAWING FILE
SG_JFS_A805.dwg

DATE: MAY 2025	
DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

SHEET

A8.5

GENERAL WALL FINISH NOTES

A. CODE-REQUIRED LABELS SUCH AS "UL", FACTORY MUTUAL OR EQUIP ID, PERF. RATING, NAME OR NOMENCLATURE PLATE SHALL REMAIN READABLE, NOT PAINTED.

B. REFER TO M/E/P DRAWINGS FOR ADDITIONAL FINISH INFO. WALL GRILLES: PAINT TO MATCH ADJACENT FINISH. ELEC COVER PLATES: STAINLESS STEEL, U.N.O.

C. AREAS BENEATH/BEHIND EQUIP. & CABINETRY, FURNITURE AND FLOATING/ CANTILEVERED BUILT-INS, ETC: INSTALLER TO EXTEND NEW FINISH TO COVER OPEN AREA AT VIEWABLE AREAS ONLY, U.N.O.

D. WHERE TILE THICKNESS DIFFERS WITHIN A PATTERN, OTHER THAN LOCATIONS SPECIFIED TO RECEIVE TRANSITION STRIP; FINISH FACES OF TILE TO ALIGN FLUSH.

E. PROPER CURING/DRYING OF UNDERLAYMENTS PRIOR TO APPLICATION OF TILE IS CRITICAL FOR PROPER PERFORMANCE.

F. PAINT SOFFITS, DRYWALL CEILINGS, ETC, COLOR: CEILING WHITE, U.N.O. | PAINT UPPER WALL/EXPOSED DECK COLOR: BLACK, U.N.O. | DO NOT PAINT PRECAST CONCRETE,U.N.O.

G. WALLS AT MOP & UTILITY SINK TO RECEIVE 8'H X 4'W FRP, UNO. TRIM PANELS WITH ACCESSORY MOULDING.

H. EPOXY GROUT IN TOILET/RESTROOMS ON WALLS AND FLOOR AT PLUMBING WALL JOINT.

J. SHOWER AREA IN RESTROOMS: PREPARATION TO SUB SURFACES WHERE WALL PANELS ARE SCHEDULED TO INCLUDE FULL COVERAGE OF WATERPROOF MEMBRANE.

K. H.M. DOORS/FRAMES: PAINT COLOR VARIES PER DEPARTMENT. EXTERIOR COLOR VARIES- COLOR SHALL MATCH ADJACENT WALL FINISH MATERIAL ON EXT SIDE. INTERIOR SIDE, COLOR VARIES- PAINT THE FOLLOWING HOLLOW METAL: DOORS, VISION PANEL FRAMES, SIDELIGHT FRAME & WINDOW FRAMES, UNLESS OTHERWISE NOTED. PRIME SURFACES WITH A RUST INHIBITOR PRIMER.

L. SETTING: PRIMERS, ADHESIVE, SEALERS, MORTARS, GROUT, ETC. SHALL BE COMPATIBLE, DO NOT VOID WARRANTY. ACHIEVE LIMITED LIFETIME WARRANTY WHERE IDENTIFIED.

M. PAINT ALL OPEN STRUCTURE CEILINGS INCLUD. ALL EXPOSED MECHANICAL, CONDUIT, STRUCTURAL COMPONENTS, U.N.O. REFINISH FACTORY PRIMERS AFFECTED DURING INSTALL.

N. CONTRACTOR TO PROVIDE A SMOOTH LEVEL 4 ON DRYWALL FINISH ON ALL NEW GYPSUM WALLS & CEILING SOFFITS, ETC. UNLESS OTHERWISE NOTED. LEVEL 4 IS PER CURRENT VERSION OF RECOMMENDED LEVELS OF GYPSUM BOARD FINISH ACCESSED ON THE GYPSUM ASSOCIATION WEBSITE. GA-214. SPECIFIC WALLS ARE TO RECEIVE LEVEL 5.

P. PAINT: EQUIPMENT: GRILLS, ELECTRICAL PANELS, WALL MOUNTED BOXES, ACCESS PANELS, ETC., WHICH ARE EXPOSED IN FINISHED SPACES TO MATCH THE SURFACE WHR OCCURS. PAINT: EXPOSED SIDE OF WALL, U.N.O.. PAINTED SURFACES TO RECEIVE A TINTED PRIMER THAT COORDINATES WITH FINISH COLOR.WHERE A PAINTED EXPOSED ROOF DECKING OCCURS: PAINT BAND OF CEILING PAINT ON UPPER WALL, APPROX 30" BELOW ROOF DECK, COLOR TO MATCH CEILING.

Q. WALL & H.M. DOOR PAINT SHEEN: SATIN, TYP. | EPOXY: LOW SHEEN | H.M. DOOR/WINDOW FRAMES: SEMI-GLOSS | SOFFITS/CEILING: FLAT. | WOOD: SATIN. CONFIRM WITH OWNER SHEEN PRIOR TO ORDERING.

R. AREAS SCHEDULED TO RECEIVE PORC/CERAMIC TILE FINISH: CONTR SHALL FIELD VERIFY LOCATION & SIZE OF EXPANSION & MOVEMENT JOINTS. PROVIDE ADDITIONAL PREP AT JOINTS IN ACCORDANCE WITH CURRENT EDITION OF TCNA GUIDELINES. SEE ELEVATIONS TO LOCATE.

S. G.C. TO PROVIDE/CONSTRUCT SOLID WD BASE FRAMEWORK FOR BASE CABINETRY AND LOCKERS. FRAMEWORK HEIGHT VARIES. COORD. W/ MILLWORK AND EQUIP.

T. RUBBER COVE BASE: COIL LENGTHS AND SEGMENTED LENGTHS IN PROJECT SCOPE. APPLY RUBBER COVE BASE WHERE SHOWN ON ELEVATIONS TO INCLUDE: BUILT-IN BASE CABINETS, LOCKER BASES, EXPOSED STRUC COLUMNS, ETC. U.N.O. TILE

U. CONFIRM EQUIPMENT MOUNTING HEIGHTS W/ OWNER. EQUIPMENT SHOWN IN DOCUMENTS IS NOT COMPREHENSIVE, OWNER MAY HAVE ADDITIONAL EQUIPMENT.

V. GC SHALL PROVIDE ALL NECESSARY PROTECTION TO NEW WORK FROM DAMAGE AND DUST UNTIL PROJECT COMPLETES.

W. GC PROVIDES 'IN-WALL' SOLID WOOD BLOCKING AT ACCESORIES, WALL MOUNTED EQUIPMENT & CABINETS, ETC- FOR OWNER AND GC PROVIDED ITEMS.

X. ALL DOOR AND WINDOW FRAMES SHALL BE CAULKED AT JOINTS TO FINISH SURFACES

KEYED FINISH NOTES:

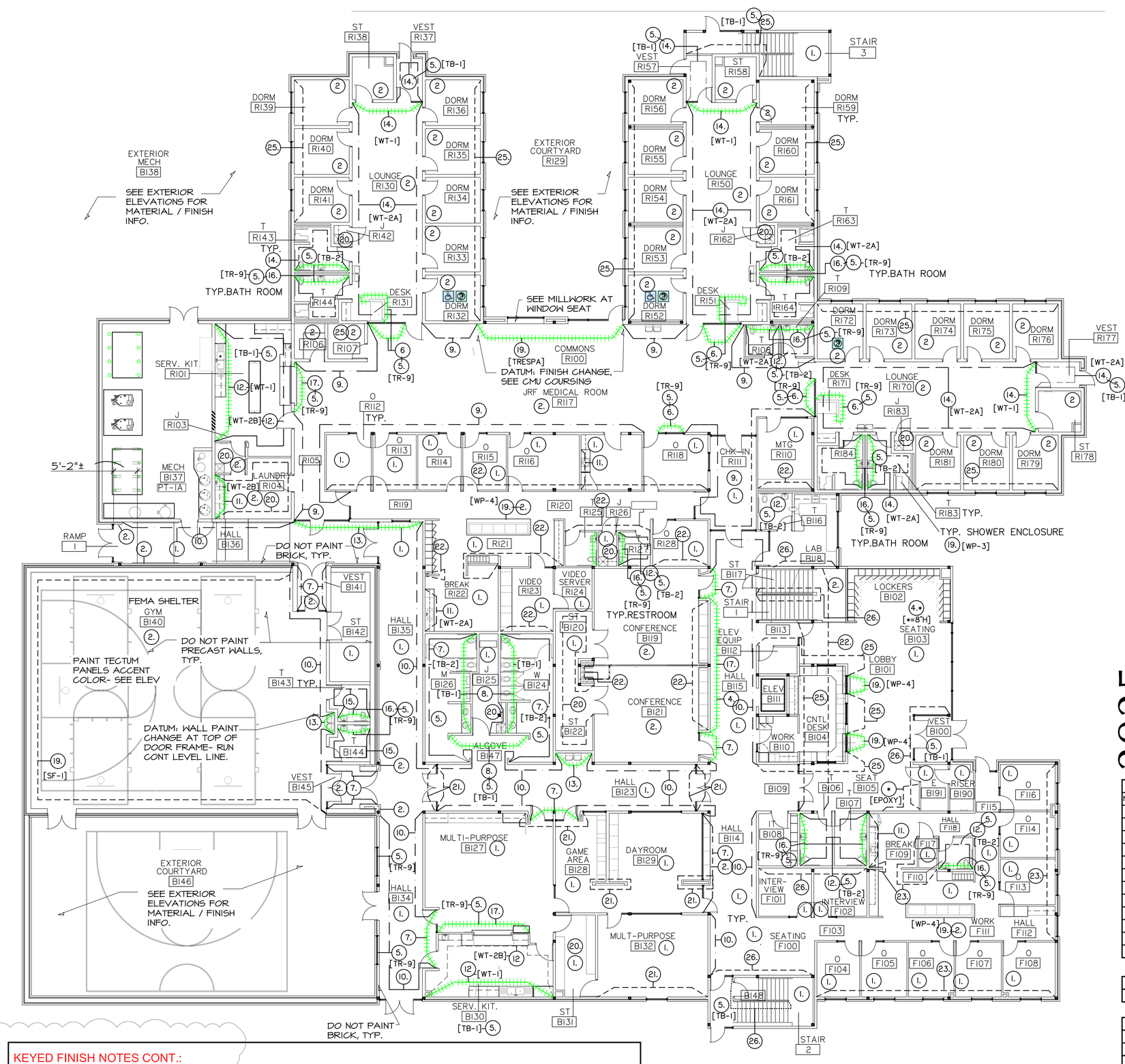
FIELD MATERIALS LISTED BELOW. SEE WALL FINISH PLAN AND PATTERNS FOR ACCENT MATERIALS

MARK	DESCRIPTION		FIELD MATERIAL SHEET A8.0	DETAIL
1.	4" RUBBER WALL BASE		WB-1	1/A8.10
2.	4 5/8" RUBBER WALL BASE		WB-2	3/A8.10
3.	6" RUBBER WALL BASE		WB-3	1/A8.10
4.	6" RUBBER WALL BASE		WB-4	3/A8.10
5.	TILE BASE		VARIES	2A | 2B | 2C/A8.10
6.	PORCELAIN TILE - WAINSCOT	UPPER WALL: MATL VARIES	WT-4	6/A8.9
7.	GLAZED TILE - WAINSCOT	UPPER WALL: MATL VARIES	WT-2/A8.0	7/A8.9
8.	WOOD LOOK WAINSCOT	UPPER WALL: MATL VARIES	WT-3/A8.0	8/A8.9
9.	GLAZED TILE WAINSCOT	UPPER WALL: MATL VARIES	WT-2A	9/A8.9
10.	GLAZED TILE WAINSCOT	UPPER WALL: MATL VARIES	WT-2A	10/A8.9
11.	TILE BACKSPLASH		WT-2	11/A8.9
12.	GLAZED TILE-WAINSCOT	UPPER WALL: MATL VARIES	VARIES	12/A8.9
13.	DRINKING FOUNTAIN TILE WAINSCOT	UPPER WALL: MATL VARIES	WT-1	13/A8.9
14.	GLAZED TILE - WAINSCOT	UPPER WALL: MATL VARIES	VARIES	14/A8.9
15.	GLAZED TILE - WAINSCOT	UPPER WALL: MATL VARIES	WT-2	15/A8.9
16.	WOOD LOOK - WAINSCOT	UPPER WALL: MATL VARIES	WT-3	16/A8.9
17.	FULL HT WOOD LOOK		WT-3	17/A8.9
19.	WALL PANEL		VARIES	19/A8.9
20.	FRP - WAINSCOT	UPPER WALL: MATL VARIES	WP-1	20/A8.9

KEYED FINISH NOTES CONT.:

MARK	DESCRIPTION	ACCENT PAINT SHEET A8.0
21.	COOL ACCENT PAINT	PT-1D
22.	WARM ACCENT PAINT	PT-1E
23.	BRIGHT ACCENT PAINT	PT-1F

MARK	DESCRIPTION	ACCENT PAINT SHEET A8.0
24.	COOL ACCENT SCUFF TUFF PAINT	PT-3A
25.	WARM ACCENT SCUFF TUFF PAINT	PT-3B
26.	BRIGHT ACCENT SCUFF TUFF PAINT	PT-3C



SEE ELEVATIONS FOR FIELD MATERIAL FINISHES.

A WALL FINISH PLAN: ACCENT MATERIALS

SCALE: 3/32" = 1'-0" NORTH

ARCHITECTS

CHRISTOPHER JAMES HANNEY LICENSED ARCHITECT 8044 KANSAS PROFESSIONAL ARCHITECT

11/06/26

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2025 SEDGWICK COUNTY

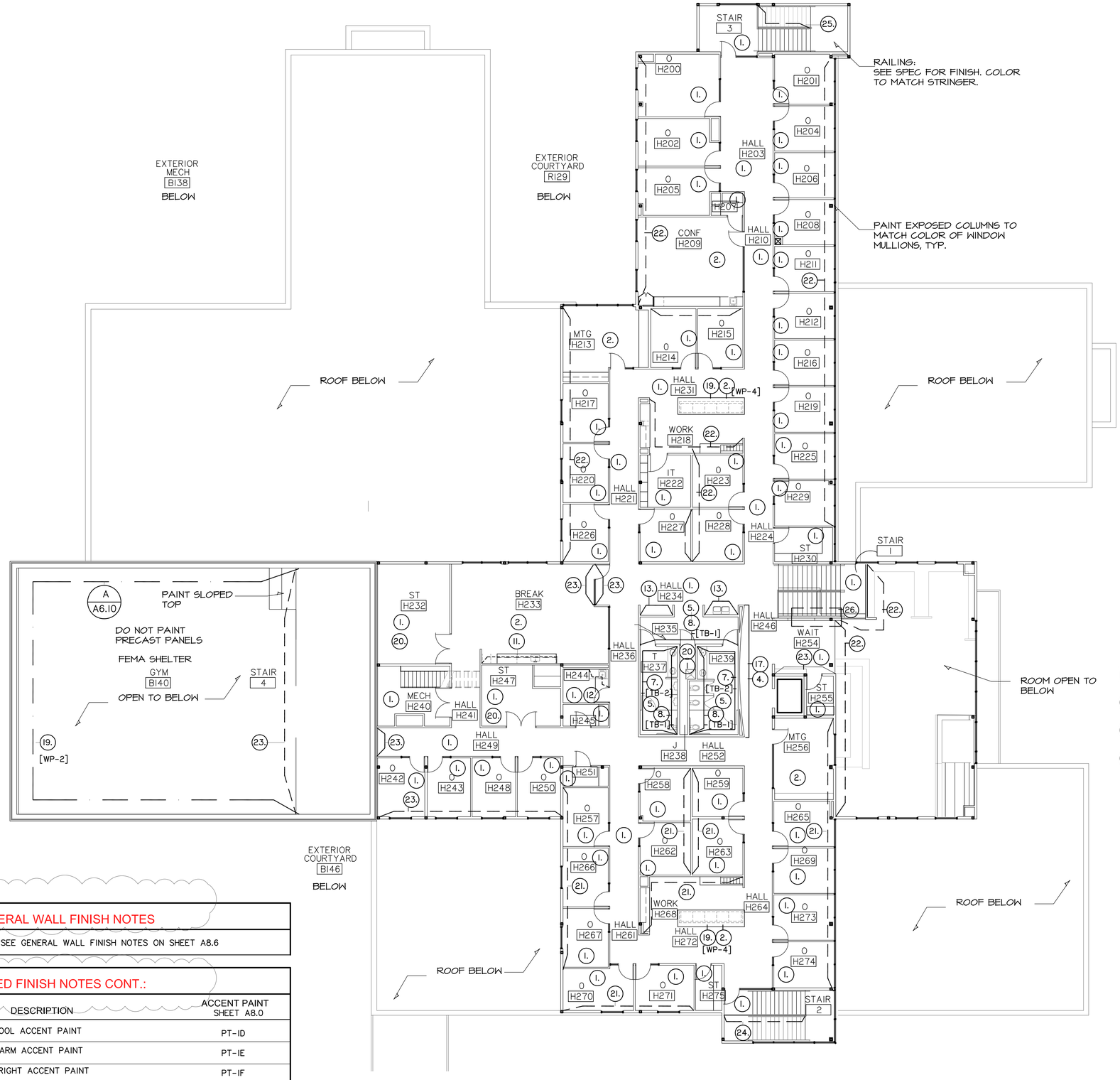
JUVENILE SERVICES BUILDING
881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED		
NO.	DATE	ITEM ISSUED
12	11/6	ADDENDUM #3
11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

DRAWING FILE
SC_JFS_A806.dwg

DATE: MAY 2025
DRAWN BY: FH, TH, CH, MH
CHECKED BY: MH

SHEET
A8.6



KEYED FINISH NOTES:

FIELD MATERIALS LISTED BELOW. SEE WALL FINISH PLAN AND PATTERNS FOR ACCENT MATERIALS

MARK	DESCRIPTION	FIELD MATERIAL SHEET A8.0	DETAIL
1.	4" RUBBER WALL BASE	WB-1	1/A8.10
2.	4 5/8" RUBBER WALL BASE	WB-2	3/A8.10
3.	6" RUBBER WALL BASE	WB-3	1/A8.10
4.	6" RUBBER WALL BASE	WB-4	3/A8.10
5.	TILE BASE	VARIES	2A | 2B | 2C/A8.10
6.	PORCELAIN TILE - WAINSCOT	UPPER WALL: MATL VARIES WT-4	6/A8.9
7.	GLAZED TILE - WAINSCOT	UPPER WALL: MATL VARIES WT-2/A8.0	7/A8.9
8.	WOOD LOOK WAINSCOT	UPPER WALL: MATL VARIES WT-3/A8.0	8/A8.9
9.	GLAZED TILE WAINSCOT	UPPER WALL: MATL VARIES WT-2A	9/A8.9
10.	GLAZED TILE WAINSCOT	UPPER WALL: MATL VARIES WT-2A	10/A8.9
11.	TILE BACKSPLASH	WT-2	11/A8.9
12.	GLAZED TILE-WAINSCOT	UPPER WALL: MATL VARIES VARIES	12/A8.9
13.	DRINKING FOUNTAIN TILE WAINSCOT	UPPER WALL: MATL VARIES WT-1	13/A8.9
14.	GLAZED TILE - WAINSCOT	UPPER WALL: MATL VARIES VARIES	14/A8.9
15.	GLAZED TILE - WAINSCOT	UPPER WALL: MATL VARIES WT-2	15/A8.9
16.	WOOD LOOK - WAINSCOT	UPPER WALL: MATL VARIES WT-3	16/A8.9
17.	FULL HT WOOD LOOK	WT-3	17/A8.9
19.	WALL PANEL	VARIES	19/A8.9
20.	FRP - WAINSCOT	UPPER WALL: MATL VARIES WP-1	20/A8.9

GENERAL WALL FINISH NOTES

SEE GENERAL WALL FINISH NOTES ON SHEET A8.6

KEYED FINISH NOTES CONT.:

MARK	DESCRIPTION	ACCENT PAINT SHEET A8.0
21.	COOL ACCENT PAINT	PT-1D
22.	WARM ACCENT PAINT	PT-1E
23.	BRIGHT ACCENT PAINT	PT-1F
24.	COOL ACCENT SCUFF TUFF PAINT	PT-3A
25.	WARM ACCENT SCUFF TUFF PAINT	PT-3B
26.	BRIGHT ACCENT SCUFF TUFF PAINT	PT-3C

SEE ELEVATIONS FOR FIELD MATERIAL FINISHES.

A WALL FINISH PLAN: ACCENT MATERIALS - UPPER LEVEL

SCALE: 3/32" = 1'-0"

NORTH

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JUVENILE SERVICES BUILDING
881 MINNESOTA, WICHITA, KANSAS

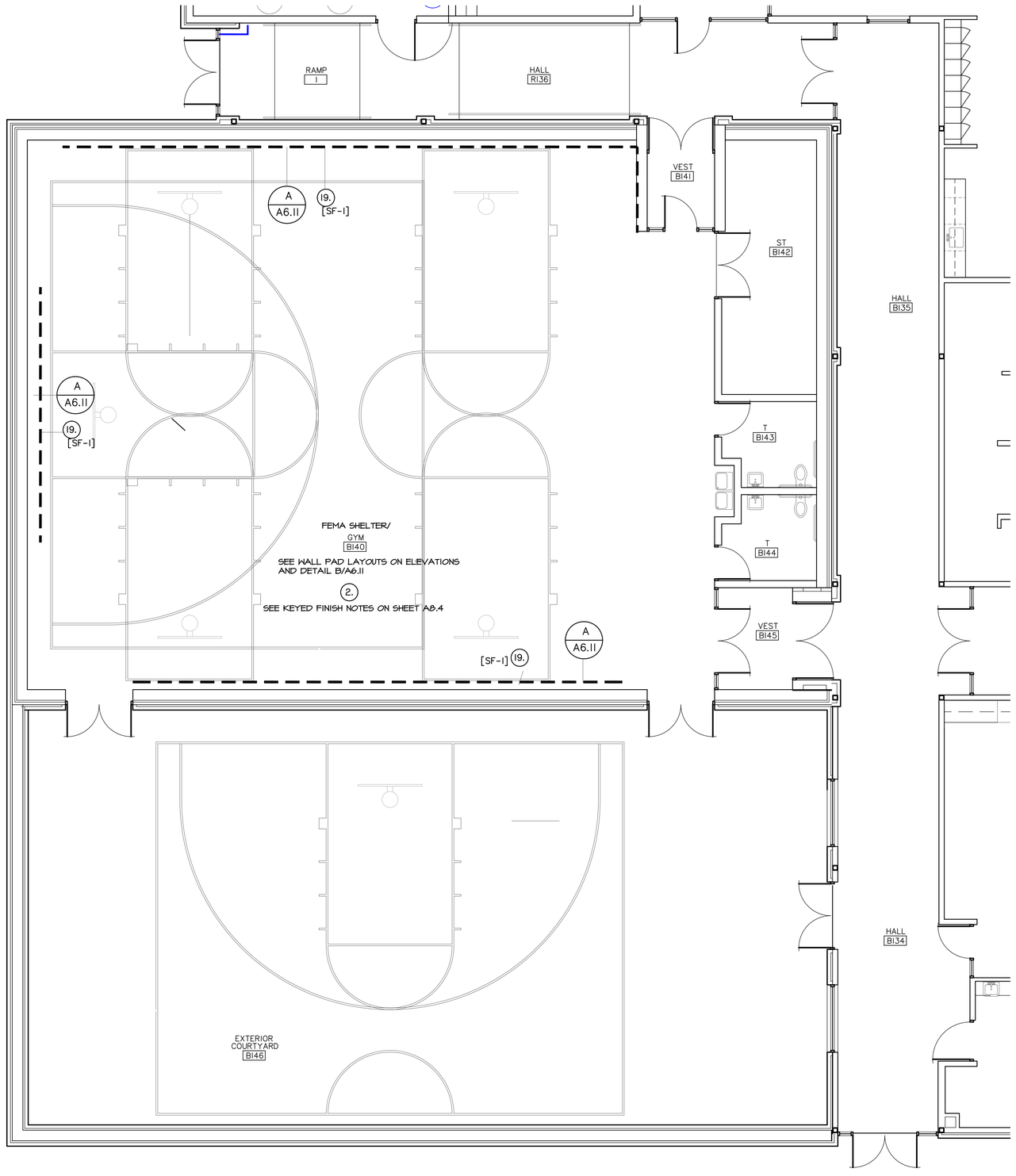
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11	4/3	PERMIT
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9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

DRAWING FILE
SC_JFS_A8OT.dwg

DATE: MAY 2025	
DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

SHEET

A8.7



A ENLARGED FLOOR PLAN- WALL PAD FINISH - BASE BID

SCALE: 3/16" = 1'-0"

NORTH

ARCHITECTS

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8044
KANSAS
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881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED		
NO.	DATE	ITEM ISSUED
12	11/6	ADDENDUM #3
11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

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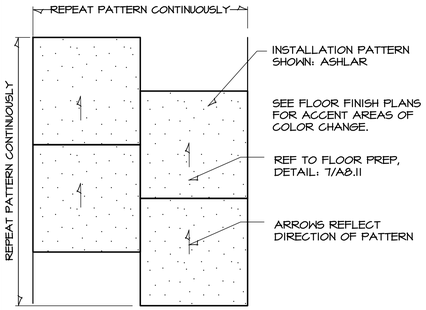
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FH, TH, CH, MH	MH

SHEET

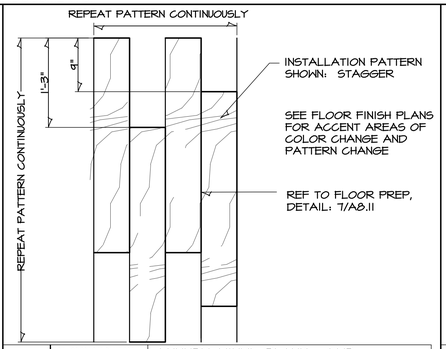
A8.8

FLOOR PATTERN ENLARGED DETAILS

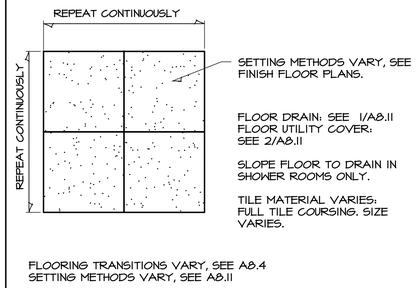
ADDITIONAL MATLS NOTED THROUGHOUT COMPLETE SET OF DOCUMENTS.



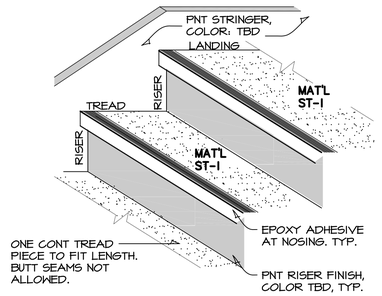
1		
	DESCRIPTION	CARPET TILE
	ADHESIVE	4151 TROWEL- INSTALL PER MFR GUIDES.
	METHOD	CRI-104 COMMERCIAL INSTALL STANDARDS



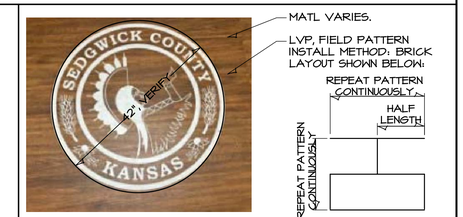
2		
	DESCRIPTION	LUXURY VINYL PLANK, LVP
	ADHESIVE	STRONG SYSTEM SUBFLOOR PREP
	METHOD	ASTM F3261, INSTALL PER MFR GUIDES



3		
	DESCRIPTION	PORCELAIN FLOOR TILE
	SETTING	ABOVE GROUND AND ON GROUND INSTALL
	METHOD	ANSI A108, INSTALL PER MFR GUIDELINES



4		
	DESCRIPTION	STAIR FLOOR RUBBER, ST-1
	PROFILE	VERIFY STAIR CONSTRUCTION PROFILE
	METHOD	ASTM F1344, INSTALL PER MFR GUIDES



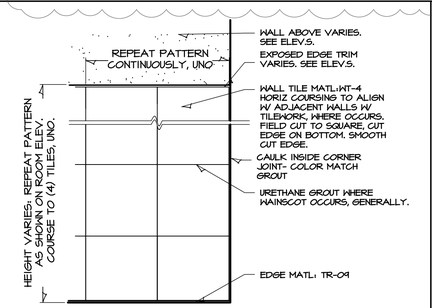
WALK-OFF MAT: FACILITY ARMOR WITH INLAID COUNTY SEAL WHERE SHOWN ON FLOOR FINISH PLAN (NOT SHOWN)- CUSTOM ORDER FROM MFR.

COUNTY SEAL WATERJET CUTTING TO CREATE CUSTOM DESIGN/INLAY IMAGE SHOWN FOR ELEVATOR, SIZE: ADJUST TO FIT SPACE. PLACEMENT: CENTER ON DOOR AND W/IN SPACE COUNTY SEAL: DESIGN PER SEAL FOR DEPT., CONFIRM W/ OWNER. CONTRACTOR RESPONSIBLE FOR CONVERTING IMAGE TO HIGH RESOLUTION FORMAT REQUIRED FOR JET CUTTING TO CREATE SMOOTH CONT RADIUS, NON SEGMENTED CIRCLE.

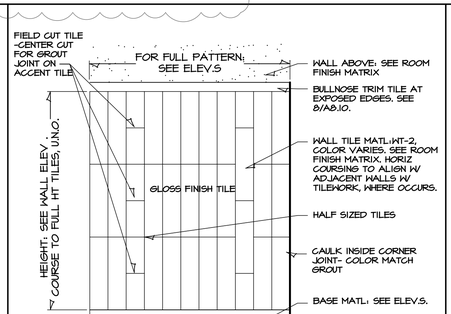
5		
	DESCRIPTION	FLOORING W/ COUNTY SEAL
	MATERIAL	ELEV CAB: LVP | ENTRY MAT: CPT-2
	METHOD	CONTR TO COORD, COMPLETE INSTALL

WALL PATTERN (U.N.O.) ENLARGED DETAILS.

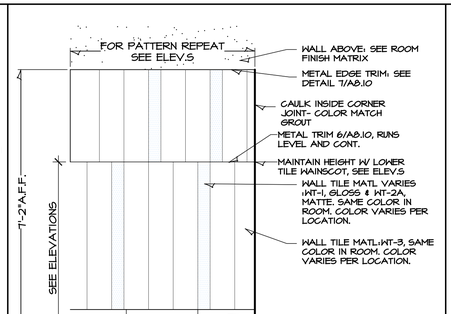
PATTERN DETAIL 18 IS FOR THE SHOWER AREA FLOORING.
ADDITIONAL MATLS NOTED THROUGHOUT COMPLETE SET OF DOCUMENTS.



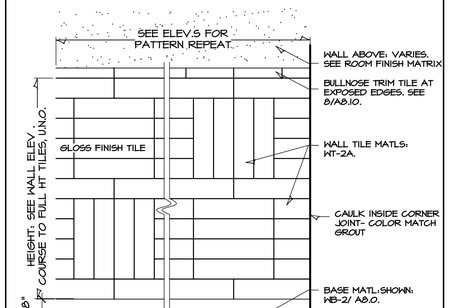
6		
	DESCRIPTION	AGGREGATE TILE: WT-4
	INSTALL	PER MANF GUIDELINES, U.N.O.
	METHOD	TCNA: W211 | TCNA W244C



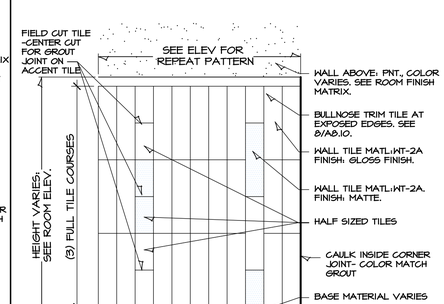
7		
	DESCRIPTION	GLAZED CERAMIC TILE: WT-2
	INSTALL	PER MANF GUIDELINES, U.N.O.
	METHOD	TCNA: W211 | TCNA W244C



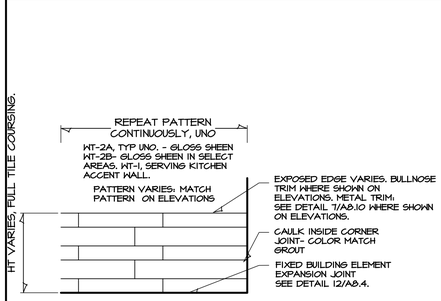
8		
	DESCRIPTION	GLAZED CERAMIC WALL TILE: WT-3
	MEMBRANE	KERDI, FULL COVERAGE AT TILEWORK
	METHOD	TCNA: W211 | TCNA W244C



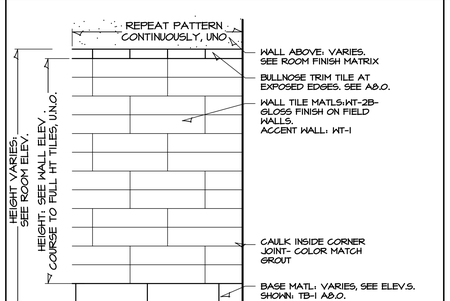
9		
	DESCRIPTION	GLAZED CERAMIC WALL TILE: WT-
	INSTALL	PER MANF GUIDELINES, U.N.O.
	METHOD	TCNA: W211 | TCNA W244C



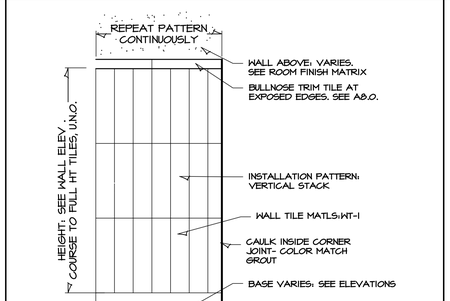
10		
	DESCRIPTION	GLAZED PORCELAIN TILE: WT-2
	INSTALL	KERDI, FULL COVERAGE AT TILEWORK
	METHOD	TCNA: W211 | TCNA W244C



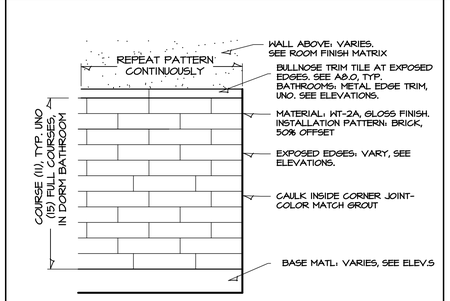
11		
	DESCRIPTION	GLAZED PORCELAIN TILE: WT-2
	INSTALL	PER MANF GUIDELINES, U.N.O.
	METHOD	TCNA: W211 | TCNA W244C



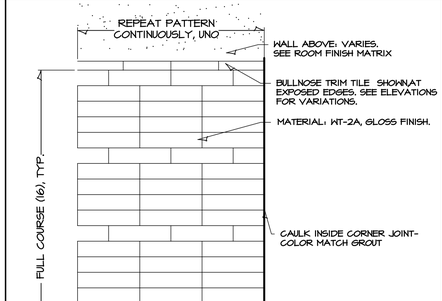
12		
	DESCRIPTION	GLAZED CERAMIC WALL TILE: WT-2
	MEMBRANE	KERDI, FULL COVERAGE AT TILEWORK
	METHOD	TCNA: W211 | TCNA W244C



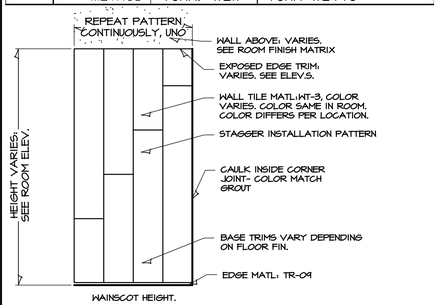
13		
	DESCRIPTION	CERAMIC GLAZED WALL TILE
	MEMBRANE	KERDI, FULL COVERAGE AT TILEWORK
	METHOD	TCNA: W211 | TCNA W244C



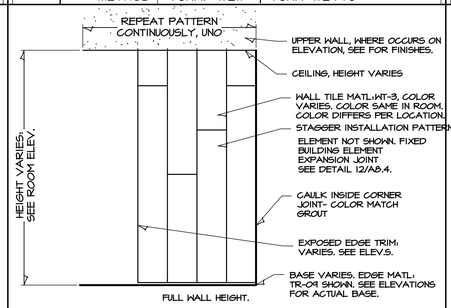
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	INSTALL	PER MANF GUIDELINES, U.N.O.
	METHOD	TCNA: W211 | TCNA W244C



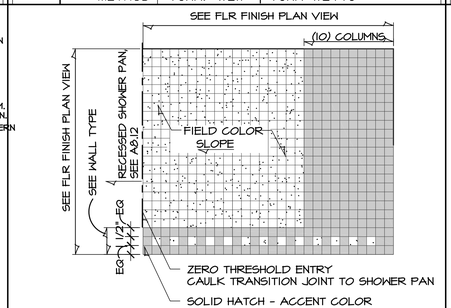
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	INSTALL	PER MANF GUIDELINES, U.N.O.
	METHOD	TCNA: W211 | TCNA W244C



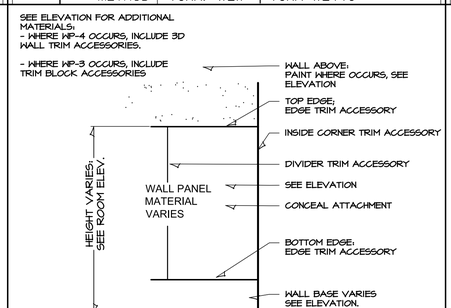
16		
	DESCRIPTION	GLAZED PORCELAIN TILE: WT-3
	MEMBRANE	KERDI, FULL COVERAGE AT TILEWORK
	METHOD	TCNA: W211 | TCNA W244C



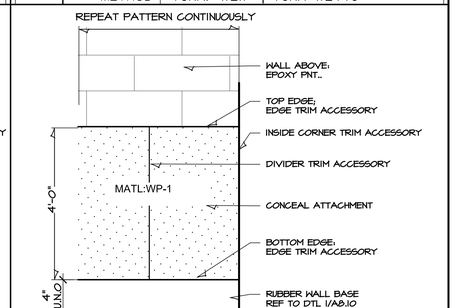
17		
	DESCRIPTION	GLAZED PORCELAIN TILE: WT-3
	INSTALL	PER MANF GUIDELINES, U.N.O.
	METHOD	TCNA: W211 | TCNA W244C



18		
	DESCRIPTION	JRF SHOWER AREA
	INSTALL	MOSAIC TILE SHEETS WITH FIELD INSET
	METHOD	TCNA: B421



19		
	DESCRIPTION	WALL PANEL MATERIAL VARIES
	INSTALL	PER MANF GUIDELINES, U.N.O.
	ADHESIVE	HEAVY DUTY - COMMERCIAL GRADE



20		
	DESCRIPTION	FIBERGLASS PANEL (FRP): WP-1
	INSTALL	PER MANF GUIDELINES, U.N.O.
	ADHESIVE	HEAVY DUTY - COMMERCIAL GRADE

ARCHITECTS

CHRISTOPHER JAMES HANNEY LICENSED KANSAS 8044 PROFESSIONAL ARCHITECT

11/06/26

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JUVENILE SERVICES BUILDING
881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED		
NO.	DATE	ITEM ISSUED
12	11/6	ADDENDUM #3
11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

DRAWING FILE
SC_JFS_A809.dwg

DATE: MAY 2025

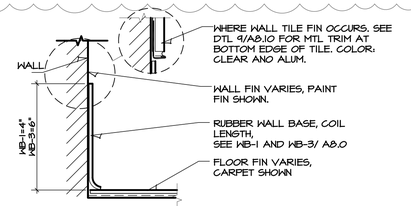
DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

SHEET

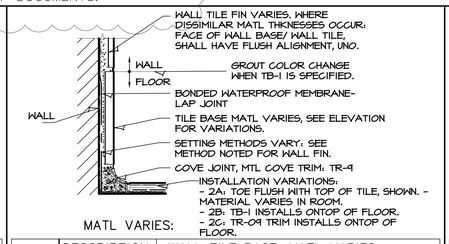
A8.9

GENERAL INSTALLATION DETAILS

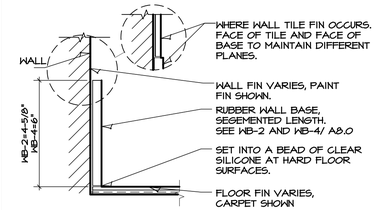
ADDITIONAL MATLS NOTED THROUGHOUT COMPLETE SET OF DOCUMENTS.



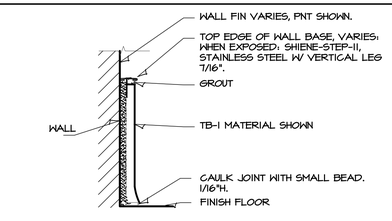
1	DESCRIPTION	RUBBER WALL BASE: WB-1 AND WB-3
	INSTALL	CONCEAL ATTACHMENT



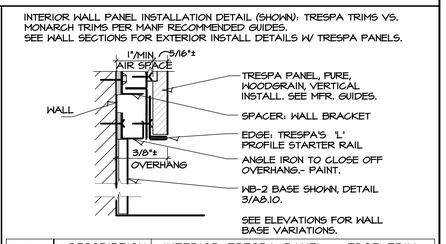
2	DESCRIPTION	WALL TILE BASE, MATL VARIES
	INSTALL	INCL MTL TRIM ACCESSORY PIECES



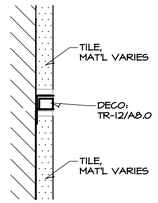
3	DESCRIPTION	RUBBER WALL BASE: WB-2 AND WB-4
	INSTALL	CONCEAL ATTACHMENT



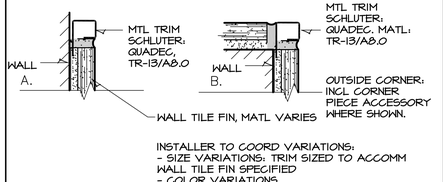
4	DESCRIPTION	WALL TILE BASE, MATL VARIES.
	INSTALL	INCL MTL TRIM ACCESSORY PIECES.



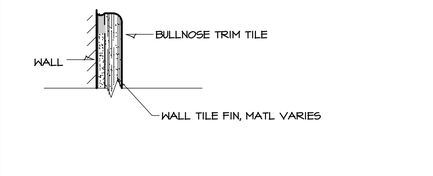
5	DESCRIPTION	INTERIOR TRESPA PANEL - EDGE TRIM
	INSTALL	PER MANF RECOMMENDED GUIDELINES.



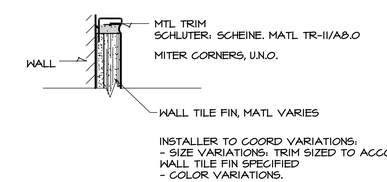
6	DESCRIPTION	MTL TRIM EDGE, TR-12
	INSTALL	WHERE NOTED ON ELEVATIONS



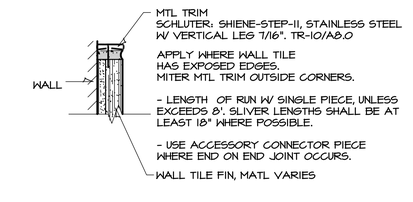
7	DESCRIPTION	MTL TRIM EDGE, TR-13
	INSTALL	INCL ACCESSORY CORNERS.



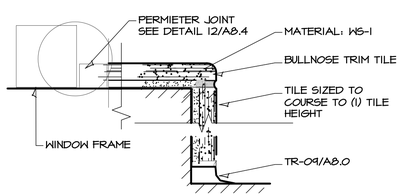
8	DESCRIPTION	BULLNOSE TRIM WALL TILE
	INSTALL	TCNA GUIDELINES, AS NOTED FOR WALL



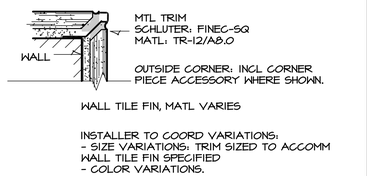
9	DESCRIPTION	MTL TRIM EDGE, TR- 11
	INSTALL	WHERE NOTED ON FLOOR FIN PLAN.



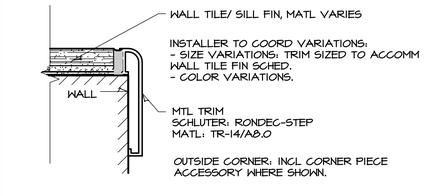
10	DESCRIPTION	MTL TRIM TILE EXPOSED EDGE-TR-10.
	INSTALL	AS NOTED.



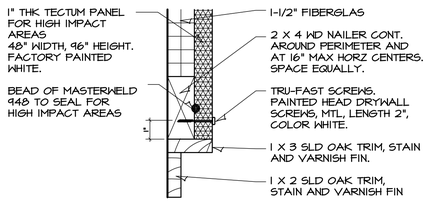
11	DESCRIPTION	CURB HEIGHT WINDOW SILL
	INSTALL	LIMITED TO LOCATIONS NOTED.



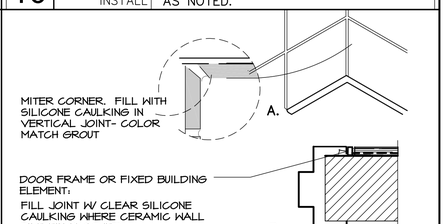
12	DESCRIPTION	MTL TRIM EDGE, WHERE APPLICABLE
	INSTALL	INCL ACCESSORY OUTSIDE CORNER



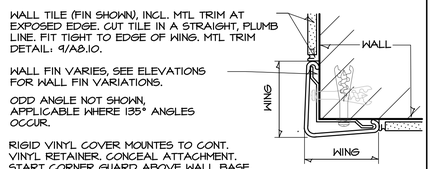
13	DESCRIPTION	MTL TRIM EDGE, TR-14
	INSTALL	INCL ACCESSORY OUTSIDE CORNERS



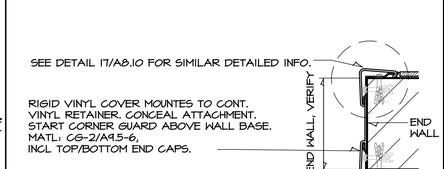
14	DESCRIPTION	TECTUM PANEL W/ WOOD TRIM
	INSTALL	LIMITED LOCATION AS NOTED.



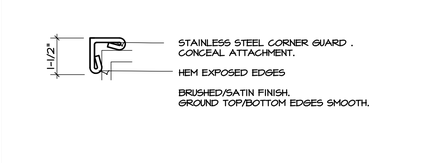
15	DESCRIPTION	PERIMETER JOINTS
	INSTALL	APPLY GENERALLY



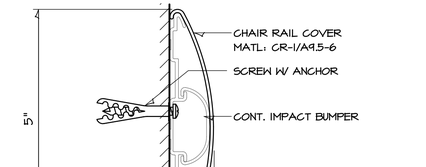
16	DESCRIPTION	OUTSIDE CORNER GUARD, CG-1
	INSTALL	PER MANF RECOMMENDED GUIDELINES, UNO



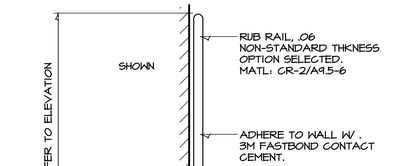
17	DESCRIPTION	END WALL GUARD, EWG-1
	INSTALL	PER MANF RECOMMENDED GUIDELINES, UNO



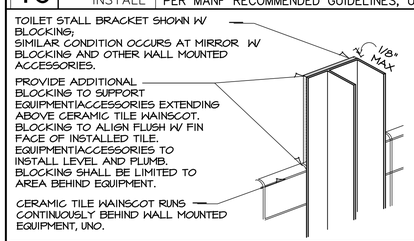
18	DESCRIPTION	STAINLESS STEEL CORNER GUARD
	INSTALL	PER MANF RECOMMENDED GUIDELINES, UNO



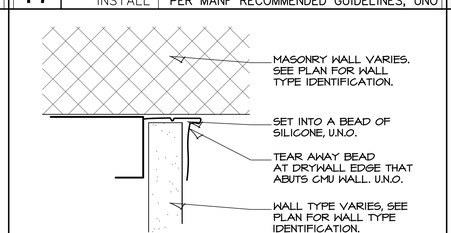
19	DESCRIPTION	CHAIR RAIL, CR-1
	INSTALL	TCNA GUIDELINES, AS NOTED FOR WALL



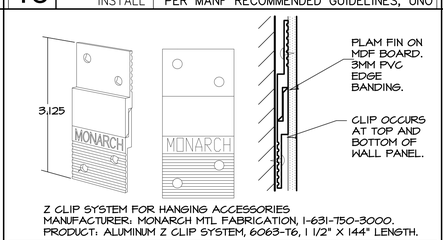
20	DESCRIPTION	CHAIR RAIL, CR-2
	INSTALL	PER MANF RECOMMENDED GUIDELINES, UNO



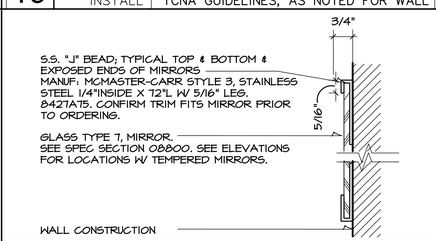
21	DESCRIPTION	BLOCKING AT ACCESSORIES
	INSTALL	WHERE FIN CONDITIONS OCCUR



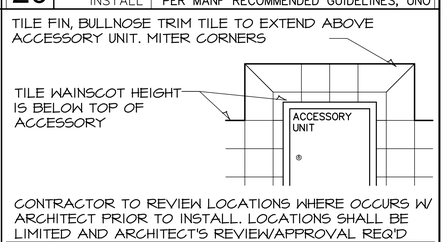
22	DESCRIPTION	TEAR-AWAY TRIM, ENLARGED VIEW
	INSTALL	PER MANF RECOMMENDED GUIDELINES.



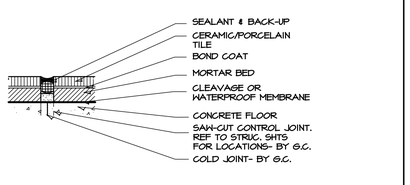
23	DESCRIPTION	Z CLIP FOR HANGING ACCESSORIES
	INSTALL	PER MANF RECOMMENDED GUIDELINES



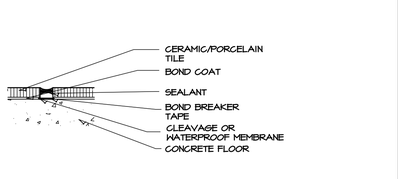
24	DESCRIPTION	LARGE FRAMED MIRROR
	INSTALL	LIMITED TO LOCATIONS NOTED.



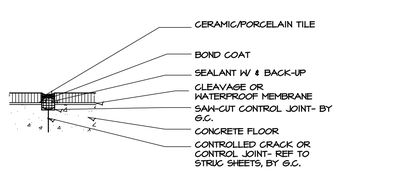
25	DESCRIPTION	BN TRIM TILE ABOVE ACCESSORY
	INSTALL	LIMITED LOCATIONS, REVIEW W/ ARCH.



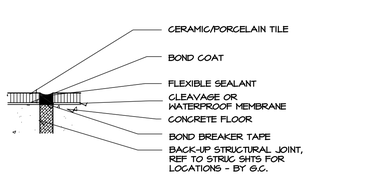
26	DESCRIPTION	CONSTRUCTION JOINT		
	METHOD	TCNA EJI71: A	TRIM	DILEX-AKWS
	INSTALL	G.C. TO FIELD IDENTIFY LOCATION		



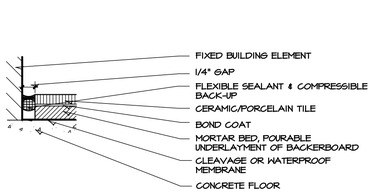
27	DESCRIPTION	GENERIC MOVEMENT JOINT	
	METHOD	DTL 14: TCNA EJI71: F	TRIM
	SIM. METHODS	DTL 18: TCNA EJI71 C,E,H	DILEX-AKWS
		PER MANF RECOMMENDED GUIDELINES	



28	DESCRIPTION	CONTRACTION JOINT		
	METHOD	TCNA EJI71: B	TRIM	DILEX-AKWS
	INSTALL	G.C. TO FIELD IDENTIFY LOCATION		



29	DESCRIPTION	ISOLATION JOINT		
	METHOD	TCNA EJI71: D	TRIM	DILEX-AKWS
	INSTALL	G.C. TO FIELD IDENTIFY LOCATION		



30	DESCRIPTION	PERIMETER JOINT		
	METHOD	TCNA EJI71: I,G	TRIM	DILEX-KSA
	INSTALL	G.C. TO FIELD IDENTIFY LOCATION		

ARCHITECTS

CHRISTOPHER JAMES KEMP LICENSED PROFESSIONAL ARCHITECT 8044 KANSAS

11/06/26

HANNEY & ASSOCIATES, ARCHITECTS
1726 South Hillside, Wichita, Kansas, 67211
Phone (316) 683-8965
Fax (316) 684-1441

2025 SEDGWICK COUNTY

JUVENILE SERVICES BUILDING
881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED		
NO.	DATE	ITEM ISSUED
12	11/6	ADDENDUM #3
11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

DRAWING FILE
SC_JFS_A810.dwg

DATE: MAY 2025	
DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

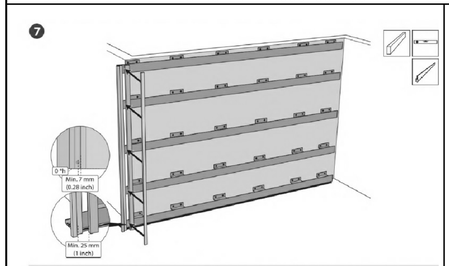
SHEET

A8.10

GENERAL INSTALLATION DETAILS

ADDITIONAL MATERIALS NOTED THROUGHOUT COMPLETE SET OF DOCUMENTS.

7

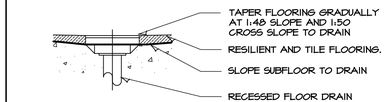


If you are using the optional starter support rail, please consider the following in the next steps:

- Fix a vertical mounting slat or spirit level with clamps at least 25 mm (1 inch) from the inside of the corner profiles to the horizontal profiles. You can also use a construction laser to project a line;
- The upper side of the starter support rail must connect with the underside of the mounting slat;
- Secure the starter support rail with the clip screws.

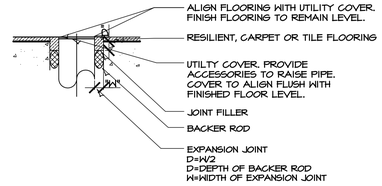
1

DESCRIPTION	TRESPA VERTICAL PANEL GUIDE
METHOD	INSTALL PER MFR GUIDELINES
PERIMETER	EXPOSED EDGES: 'L' TRIM + ENCLOSURE



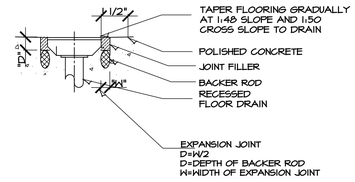
2

DESCRIPTION	FLOOR DRAIN AT TILED FLOOR
METHOD	TCNA CURBLESS DRAIN
INSTALL	G.C. TO FIELD IDENTIFY LOCATION



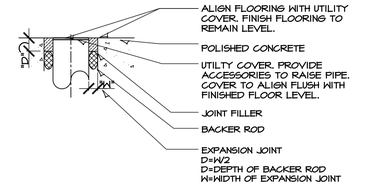
3

DESCRIPTION	UTILITY COVER AT TILED FLOOR
METHOD	FLUSH ALIGNMENT WITH TOP OF FLOOR.
INSTALL	G.C. TO FIELD IDENTIFY LOCATION



4

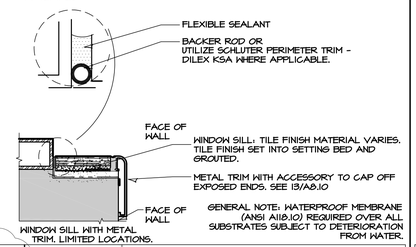
DESCRIPTION	FLOOR DRAIN AT POLISHED CONCRETE
METHOD	PER MANF RECOMMENDED GUIDELINES, UNO
INSTALL	G.C. TO FIELD IDENTIFY LOCATION



5

DESCRIPTION	UTILITY COVER AT POLISHED CONCRETE
METHOD	PER MANF RECOMMENDED GUIDELINES, UNO
INSTALL	G.C. TO FIELD IDENTIFY LOCATION

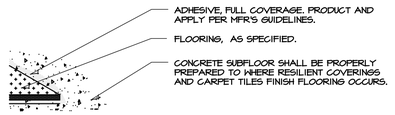
SEE DETAIL 12/A8.4 FOR ADDITIONAL MATERIALS



6

DESCRIPTION	WINDOW STOOL
METHOD	TCNA WS610
INSTALL	WHERE NOTED.

COMMERCIAL FLOOR INSTALLATION FOR HEAVY TRAFFIC



ALL SUBSTRATES MUST BE PROPERLY PREPARED AND IN ACCORDANCE WITH THE REQUIREMENTS LISTED IN THE RESPECTIVE MANUFACTURER'S COMMERICAL TECHNICAL & INSTALLATION GUIDE, AS WELL AS THE FOLLOWING:

ASTM F710 "PREPARING CONCRETE FLOORS TO RECEIVE RESILIENT FLOORING"
ASTM F1482 "INSTALLATION AND PREPARATION OF PANEL TYPE UNDERLAYMENTS TO RECEIVE RESILIENT FLOORING"
ACI 302 AMERICAN CONCRETE INSTITUTE, "GUIDE TO GONC SUBFLOOR"
CRI-104 COMMERCIAL CARPET INSTALL STANDARDS

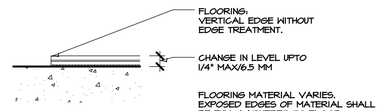
CONCRETE SUBSTRATE TESTING:
INTERNAL RELATIVE HUMIDITY 90% RH ASTM F2170
ANHYDROUS CALCIUM CHLORIDE 10 LBS ASTM F1869 PH 11

WHERE FLOOR LEVELER IS UTILIZED:
FLOOR LEVELER PRODUCT AND APPLICATION SHALL BE COMPATIBLE WITH MFR'S GUIDELINES. FLOOR LEVELER SHALL COMPLY WITH ASTM F2678 AND F2170

AREAS WHERE CARPET TILE FINISH IS SCHEDULED:
APPLY PRIMER IF FLOOR IS EXTREMELY POROUS OR HAS EXCESSIVE DUST. PRIME COAT SHALL BE COMPATIBLE WITH ADHESIVE TO ENSURE PROPER BONDING. COMPLY WITH MFR GUIDELINES.

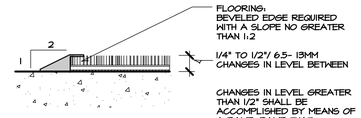
7

DESCRIPTION	RESILIENT AND CARPET INSTALLATION
METHOD	COMMERCIAL HIGH TRAFFIC
INSTALL	PER MANUFACTURER'S GUIDELINES



8

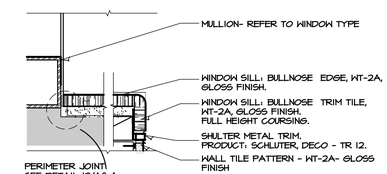
DESCRIPTION	302.2 FLOOR OR GROUND SURFACE
METHOD	CRI 104-SEPT 2015, COMMERCIAL
COMPLY	ADA 2010 STANDARDS, CH 3



CONTRACTOR TO UTILIZE SCHLUTER REDUCERS	
CARPET TO PORCELAIN	RENO-TK
TILE TO SUBFLOOR RESINOUS TO SUBFLOOR	RENO-RAMP-/K

9

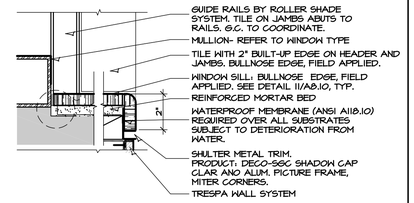
DESCRIPTION	303.3 BEVELED: CHANGES IN LEVEL
METHOD	CRI 104-SEPT 2015, COMMERCIAL
COMPLY	ADA 2010 STANDARDS, CH 3



10

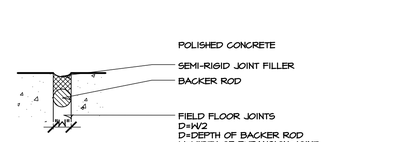
DESCRIPTION	CONTRACTION JOINT
METHOD	PER MANF RECOMMENDED GUIDELINES, UNO
INSTALL	G.C. TO FIELD IDENTIFY LOCATION

SEE DETAIL 12/A8.4 FOR ADDITIONAL MATERIALS



11

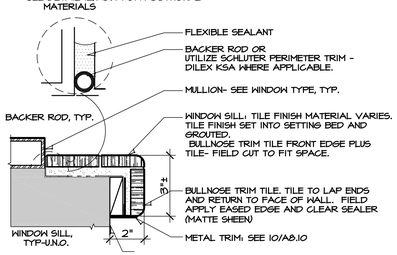
DESCRIPTION	WINDOW SEAT
METHOD	TCNA WS610
INSTALL	WHERE NOTED.



12

DESCRIPTION	POLISHED CONCRETE JOINTS
METHOD	PER MANF RECOMMENDED GUIDELINES, UNO
INSTALL	G.C. TO FIELD IDENTIFY LOCATION

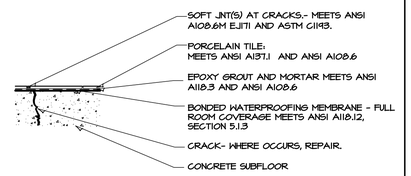
SEE DETAIL 12/A8.4 FOR ADDITIONAL MATERIALS



13

DESCRIPTION	WINDOW STOOL
METHOD	TCNA WS610
GROUT	WHERE NOTED.

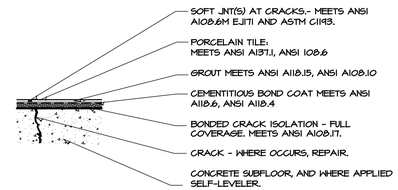
SEE PLUMBING FOR PRE-FABRICATED RECEPTOR AT SHOWER.
SEE 8.13 FOR ENLARGED DETAIL.



WHERE SELF-LEVELER IS UTILIZED:
SELF-LEVELER PRODUCT AND APPLICATION SHALL BE COMPATIBLE WITH SETTING MATERIALS MANUFACTURER'S GUIDELINES. FLOOR LEVELER SHALL COMPLY WITH ASTM ASTM F2678. APPLY COMPATIBLE PRIMER PRIOR TO INSTALLING FLOOR FINISH.

14

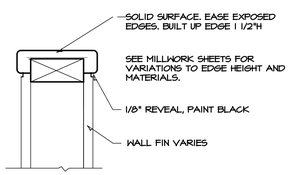
DESCRIPTION	ON-GROUND W/ WATERPROOF MEMBRANE
METHOD	TCNA F122, FULL
GROUT	BOSTIK EZPOXY EZCLEAN- OR EQ



WHERE SELF-LEVELER IS UTILIZED:
SELF-LEVELER PRODUCT AND APPLICATION SHALL BE COMPATIBLE WITH SETTING MATERIALS MANUFACTURER'S GUIDELINES. FLOOR LEVELER SHALL COMPLY WITH ASTM ASTM F2678. APPLY COMPATIBLE PRIMER PRIOR TO INSTALLING FLOOR FINISH.

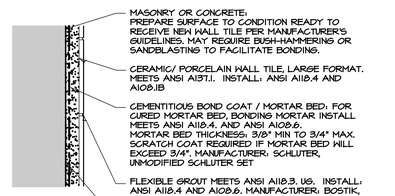
15

DESCRIPTION	ON-OR ABOVE-GROUND W/CRACK ISO. MEMBRANE
METHOD	TCNA F125-FULL, BONDED
GROUT	BOSTIK TRUCOLOR-OR EQ



16

DESCRIPTION	G.C. AND MILLWORK TO COORD
METHOD	FABRICATE
-	-



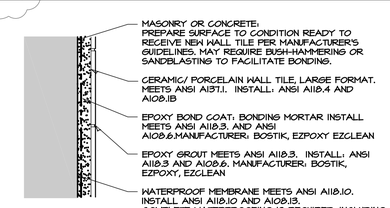
MAXIMUM ALLOWABLE VARIATION IN THE INSTALLATION SUBSTRATE - 1/4" IN 10' FROM THE REQUIRED PLANE.

MOVEMENT JOINTS, MANDATORY ACCORDING TO EJIT1 AND ASTM C1193.

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17

DESCRIPTION	WALL TILING: MASONRY | URETHANE
METHOD	TCNA: W211 | CLASS: COM 2 OR >
INSTALL	WHERE SCHEDULED



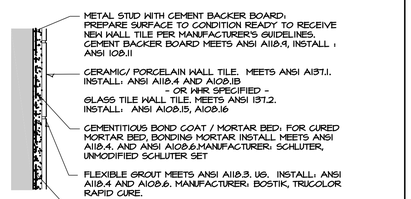
MAXIMUM ALLOWABLE VARIATION IN THE INSTALLATION SUBSTRATE - 1/4" IN 10' FROM THE REQUIRED PLANE.

MOVEMENT JOINTS, MANDATORY ACCORDING TO EJIT1 AND ASTM C1193.

.

18

DESCRIPTION	WALL TILING: MASONRY | EPOXY
METHOD	TCNA: W211 | CLASS: COM 2 OR >
INSTALL	WHERE SCHEDULED

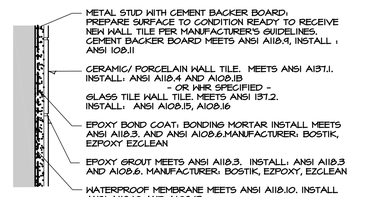


MAXIMUM ALLOWABLE VARIATION IN THE INSTALLATION SUBSTRATE:
- ALL EDGES SHORTER THAN 15' : 1/4" IN 10', WITH NO MORE THAN 1/16"VARIATION IN 12'
- WHERE AN EDGE IS AT LEAST 15'L : 1/8" IN 10' FROM THE REQUIRED PLANE, WITH NO MORE THAN 1/16" VARIATION IN 24" .

MOVEMENT JOINTS, MANDATORY ACCORDING TO EJIT1 AND ASTM C1193.

19

DESCRIPTION	WALL TILING : GYPSUM | URETHANE
METHOD	TCNA: W244C | CLASS: COM 2 OR >
INSTALL	WHERE SCHEDULED



MAXIMUM ALLOWABLE VARIATION IN THE INSTALLATION SUBSTRATE:
- ALL EDGES SHORTER THAN 15' : 1/4" IN 10', WITH NO MORE THAN 1/16"VARIATION IN 12'
- WHERE AN EDGE IS AT LEAST 15'L : 1/8" IN 10' FROM THE REQUIRED PLANE, WITH NO MORE THAN 1/16" VARIATION IN 24" .

MOVEMENT JOINTS, MANDATORY ACCORDING TO EJIT1 AND ASTM C1193.

20

DESCRIPTION	WALL TILING: GYPSUM | EPOXY
METHOD	TCNA: W244C | CLASS: COM 2 OR >
INSTALL	WHERE SCHEDULED

ARCHITECTS

CHRISTOPHER JAMES HANNEY
LICENSED
8044
KANSAS
PROFESSIONAL ARCHITECT

11/06/26

HANNEY & ASSOCIATES, ARCHITECTS
1726 South Hillside, Wichita, Kansas, 67211
Phone (316) 683-8965
Fax (316) 684-1441

2025 SEDGWICK COUNTY

JUVENILE SERVICES BUILDING

881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED		
NO.	DATE	ITEM ISSUED
12	11/6	ADDENDUM #3
11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

DRAWING FILE
SC_JFS_A811.dwg

DATE: MAY 2025	
DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

SHEET

A8.11

KEYED FURNITURE NOTES- FURN BY OTHERS

MARK	DESCRIPTION
1.	END TABLE
2.	LOUNGE CHAIR-
3.	DINING TABLE
4.	DINING CHAIR
5.	LOUNGE CHAIR
6.	BEHAVIORAL WARDROBE: BOLTED TO FLOOR AND/OR WALL
7.	BEHAVIORAL NIGHTSTAND: FREESTANDING
8	BEHAVIORAL HEALTH BED - BOLTED TO FLOOR. 8A IS AN ADA MODEL
9.	BEHAVIORAL DESK- BOLTED TO FLOOR AND/OR WALL 9A IS AN ADA MODEL
10.	BEHAVIORAL HEALTH CHAIR: FREESTANDING
11.	MEDICAL EXAM CHAIR
20.	GUEST CHAIR
21.	TASK CHAIR
22.	TASK CHAIR
23.	DINING CHAIR
24.	DINING TABLE
25.	LOUNGE CHAIR
26.	END TABLE
27.	TASK CHAIR
28.	TASK CHAIR
29.	MEETING TABLE
30.	WORKSTATION
31.	WORKSTATION
32.	SYSTEM FURNITURE MAIL STATION
33.	BARIATRIC CHAIR
34.	KIDS TABLE
35.	KIDS CHAIR
36.	TEACHER CHAIR

KEYED POWERED FURNITURE NOTES - BY OTHERS

MARK	DESCRIPTION	APPROX. OVERALL SIZE
40.	WORKSTATION	-
41.	WORKSTATION: SINGLE USER	-
42.	WORKSTATION: MULTI-USER	-
43.	CONFERENCE TABLE	5'-0"L x 2'-0"D
44.	CONFERENCE TABLE	5'-0"L x 1'-6"D

GENERAL RESPONSIBLITY:

- OTHERS ARE RESPONSIBLE FOR PROVIDING AND INSTALLING
- G.C. IS RESPONSIBLE FOR PROVIDING IN-WALL BLOCKING AND ELECTRICAL TO SUPPORT WORKSTATION POWER WHIPS.
- G.C. TO COORDINATE FURNITURE LAYOUT UPDATES PRIOR TO CONSTRUCTION. TENTATIVE FURN LAYOUT SHOWN..

KEYED FURNITURE NOTES - BY GENERAL CONTR. SEE APPLIANCE LEGEND/A1.9 FOR ADDITIONAL

MARK	DESCRIPTION	APPROX. OVERALL SIZE
50.	METAL WALL MOUNTED SHELVING: JANITOR	48"L
51.	METAL WALL MOUNTED SHELVING: MICROWAVE	24"L x 22"D
52.	METAL WALL MOUNTED SHELVING: KITCHEN + LAUNDRY	SEE PLAN SHT A1.9
53.	EPOXY WIRE MOBILE RACK	60"L x 24"D
54.	EPOXY WIRE MOBILE RACK	48"L x 24"D
55.	HEAVY DUTY MOBILE RACK: 4 SHELF	36"L x 18"D
56.	HEAVY DUTY MOBILE RACK: 4 SHELF	36"L x 24"D
57.	HEAVY DUTY MOBILE RACK: 5 SHELF	36"L x 24"D
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59.	HEAVY DUTY MOBILE RACK: 4 SHELF	48"L x 24"D
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62.	HEAVY DUTY MOBILE RACK: 4 SHELF	60"L x 24"D
63.	HEAVY DUTY MOBILE RACK: 5 SHELF	60"L x 24"D
64.	HEAVY DUTY MOBILE RACK: 4 SHELF	72"L x 18"D
65.	HEAVY DUTY MOBILE RACK: 4 SHELF	72"L x 24"D
66.	HEAVY DUTY MOBILE RACK: 5 SHELF	72"L x 24"D

FURNITURE LEGEND:

HATCH	DESCRIPTION
	- FURNITURE
	- METAL WALL MOUNTED SHELVING
	- H.D MOBILE RACK
	- EPOXY WIRE MOBILE RACK



ADDITIONAL MATERIALS - SEE FOLLOWING SHEETS

FOR APPLIANCE PLANS, SEE SHEETS A1.7 A1.8 AND A1.9
FOR REFLECTED CEILING PLANS, SEE SHEET A2.7 AND A2.8
FOR MILLWORK AND CASEWORK, SEE SHEET A7.1 AND A7.8
FOR FINISH PLAN, SEE SHEET A8.1 AND A8.2
FOR FURNITURE PLANS, SEE SHEETS A9.1 AND A9.2
FOR WINDOW TREATMENT PLANS, SEE SHEETS A9.3 AND A9.4
FOR GUARD PLAN, SEE SHEET A9.5 AND A9.6
FOR SIGNAGE PLAN, SEE SHEET A9.9 AND A9.10

GENERAL PLAN NOTE:

1. WALL MOUNTED ADJUSTABLE HEIGHT SHELVES AND HARDWARE: SEE DETAIL 8/A7.5. - MILLWORK CONTRACT, BY G.C. REFERENCES ON MILLWORK PLAN SHEETS SHALL BE UPDATED TO REFLECT LOCATIONS OF ADJUSTABLE HEIGHT SHELVING SHOWN HERE.
2. T.V.S SHOWN ARE FOR BIDDING PURPOSES. TENTATIVE LOCATIONS SHOWN. OWNER TO PROVIDE TV AND WALL MOUNTED BRACKET. G.C TO INSTALL. COORDINATE LOCATION OF TV'S PRIOR TO CONSTRUCTION
3. RACK SIZES ARE TENTATIVE. G.C. TO PROVIDE SHOP DRAWING LAYOUT OF RACKS AND METAL SHELVING ON PLAN WITH FIELD MEASURES. LENGTHS AND NUMBER OF UNITS MAY REQUIRE MODIFICATIONS TO FIT FIELD MEASURES.
4. MILLWORK MAILSTATIONS: SEE DETAIL 3/A7.4. - MILLWORK, BY G.C. REFERENCES ON MILLWORK PLAN SHEETS SHALL BE UPDATED TO REFLECT LOCATIONSOF MAILSTATIONS SHOWN HERE.
5. MILLWORK FREESTANDING C-DESK: SEE DETAIL 1/A7.5. - MILLWORK CONTRACTOR, BY G.C.

A FURNITURE PLAN- FIRST FLOOR

SCALE: 3/32" = 1'-0"

NORTH 0 5 10 20

ARCHITECTS

CHRISTOPHER JAMES HANNEY LICENSED KANSAS 8044 KANSAS PROFESSIONAL ARCHITECT

11/06/26

HANNEY & ASSOCIATES, ARCHITECTS
1726 South Hillside, Wichita, Kansas, 67211
Phone (316) 683-8965
Fax (316) 684-1441

2025 SEDGWICK COUNTY

JUVENILE SERVICES BUILDING
881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED

NO.	DATE	ITEM ISSUED
12	11/6	ADDENDUM 3
11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
8	9/22	75% CHECK SET
7	9/8	50% CHECK SET
6	8/16	25% CHECK SET
5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

DRAWING FILE
SC_JFS_A901.dwg

DATE: MAY 2025

DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

SHEET
A9.1

KEYED FURNITURE NOTES- FURN BY OTHERS

MARK	DESCRIPTION
1.	END TABLE
2.	LOUNGE CHAIR-
3.	DINING TABLE
4.	DINING CHAIR
5.	LOUNGE CHAIR
6.	BEHAVIORAL WARDROBE: BOLTED TO FLOOR AND/OR WALL
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31.	WORKSTATION
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35.	KIDS CHAIR
36.	TEACHER CHAIR

KEYED POWERED FURNITURE NOTES - BY OTHERS

MARK	DESCRIPTION	APPROX. OVERALL SIZE
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41.	WORKSTATION: SINGLE USER	-
42.	WORKSTATION: MULTI-USER	-
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44.	CONFERENCE TABLE	5'-0"L x 1'-6"D

GENERAL RESPONSIBLITY:

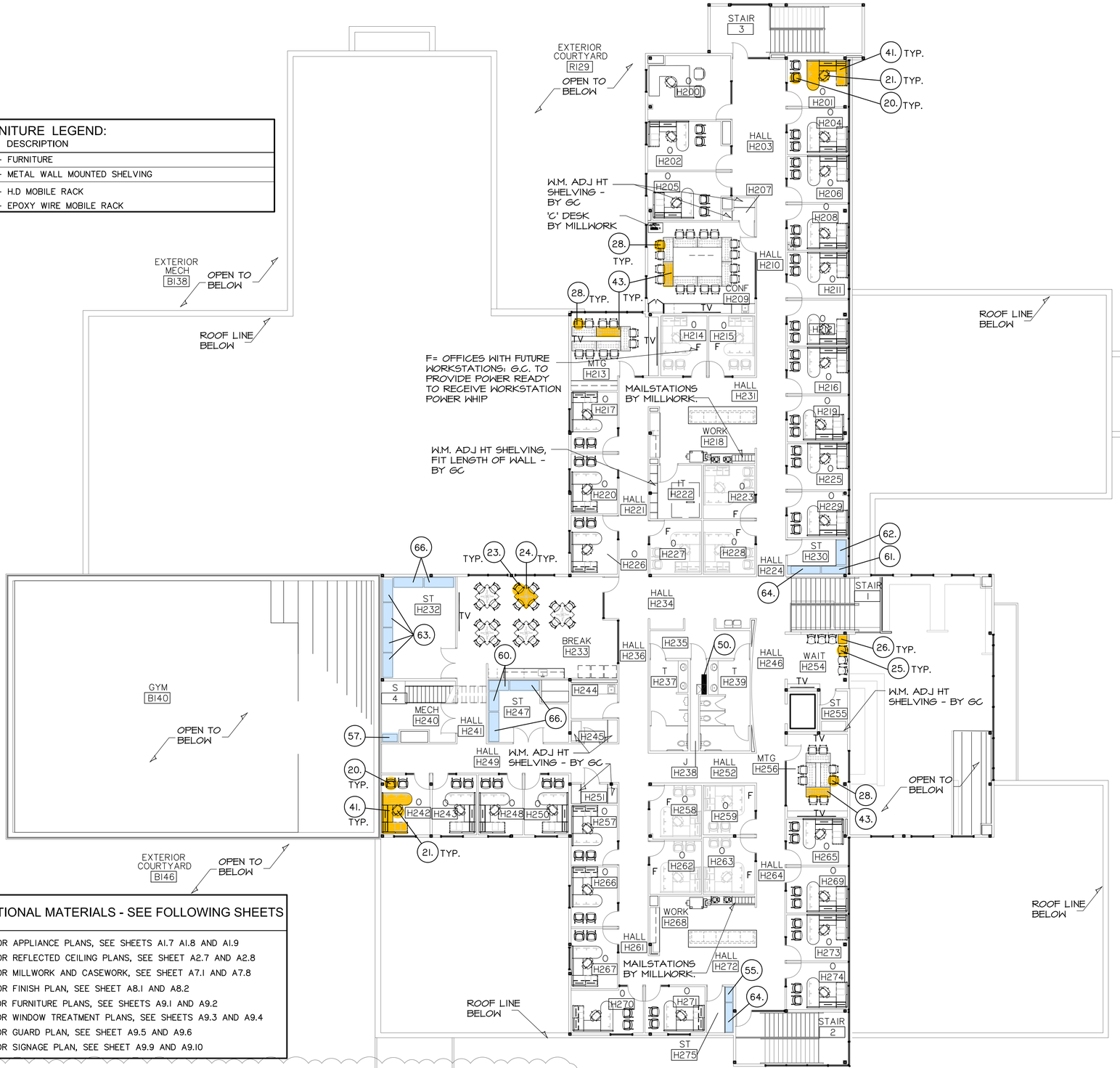
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- G.C. TO COORDINATE FURNITURE LAYOUT UPDATES PRIOR TO CONSTRUCTION. TENTATIVE FURN LAYOUT SHOWN..

KEYED FURNITURE NOTES - BY GENERAL CONTR. SEE APPLIANCE LEGEND/A1.9 FOR ADDITIONAL

MARK	DESCRIPTION	APPROX. OVERALL SIZE
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53.	EPOXY WIRE MOBILE RACK	60"L x 24"D
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FURNITURE LEGEND:

HATCH	DESCRIPTION
	- FURNITURE
	- METAL WALL MOUNTED SHELVING
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ADDITIONAL MATERIALS - SEE FOLLOWING SHEETS

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FOR REFLECTED CEILING PLANS, SEE SHEET A2.7 AND A2.8
FOR MILLWORK AND CASEWORK, SEE SHEET A7.1 AND A7.8
FOR FINISH PLAN, SEE SHEET A8.1 AND A8.2
FOR FURNITURE PLANS, SEE SHEETS A9.1 AND A9.2
FOR WINDOW TREATMENT PLANS, SEE SHEETS A9.3 AND A9.4
FOR GUARD PLAN, SEE SHEET A9.5 AND A9.6
FOR SIGNAGE PLAN, SEE SHEET A9.9 AND A9.10

GENERAL PLAN NOTE:

1. WALL MOUNTED ADJUSTABLE HEIGHT SHELVES AND HARDWARE: SEE DETAIL 8/A7.5.MILLWORK-BY6.C.. . REFERENCES ON MILLWORK PLAN SHEETS SHALL BE UPDATED TO REFLECT LOCATIONS OF ADJUSTABLE HEIGHT SHELVING SHOWN HERE.
2. T.V.S SHOWN ARE FOR BIDDING PURPOSES. TENTATIVE LOCATIONS SHOWN. OWNER TO PROVIDE TV AND WALL MOUNTED BRACKET. G.C TO INSTALL. COORDINATE LOCATION OF TV'S PRIOR TO CONSTRUCTION
3. RACK SIZES ARE TENTATIVE. G.C. TO PROVIDE SHOP DRAWING LAYOUT OF RACKS AND METAL SHELVING ON PLAN WITH FIELD MEASURES. LENGTHS AND NUMBER OF UNITS MAY REQUIRE MODIFICATIONS TO FIT FIELD MEASURES.
4. MILLWORK MAILSTATIONS: SEE DETAIL 3/A7.4.MILLWORK-BY6.C. REFERENCES ON MILLWORK PLAN SHEETS SHALL BE UPDATED TO REFLECT LOCATIONSOF MAILSTATIONS SHOWN HERE.
5. MILLWORK FREESTANDING 'C-DESK': SEE DETAIL 1/A7.5. MILLWORK-BY6.C..

A FURNITURE PLAN- SECOND FLOOR

SCALE: 3/32" = 1'-0"

NORTH

0 5 10 20

ARCHITECTS

CHRISTOPHER JAMES HANNEY LICENSED ARCHITECT 8044 KANSAS PROFESSIONAL ARCHITECT

11/06/26

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2025 SEDGWICK COUNTY

JUVENILE SERVICES BUILDING
881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED

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11	4/3	PERMIT
10	2/13	100% CHECK SET
9	1/9	90% CHECK SET
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5	6/30	MECH REVIEW
4	6/23	ELEC REVIEW

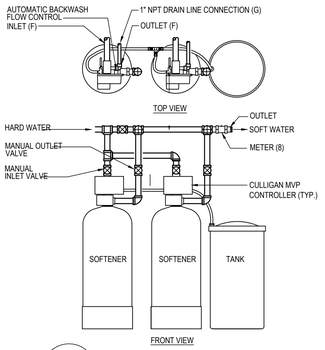
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DATE: MAY 2025

DRAWN BY:	CHECKED BY:
FH, TH, CH, MH	MH

SHEET

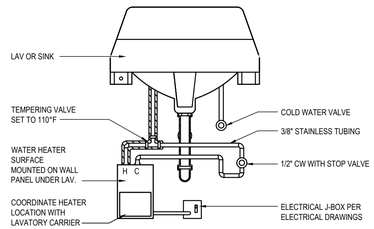
A9.2



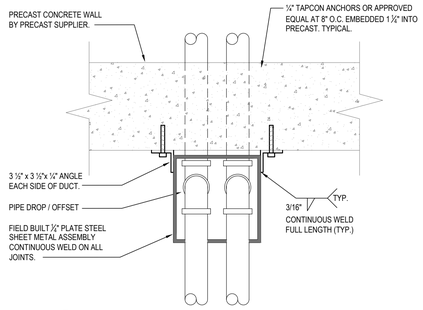
NOTES:

1) ITEMS SHOWING BROKEN LINES TO BE FURNISHED BY OTHERS.
2) ALL DIMENSIONS ARE ± 1 INCH(25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM. THE USE OF NONCONDUCTIVE (DIELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION.
5) AN ELECTRIC OUTLET SHOULD BE PROVIDED WITHIN FIVE FEET OF THE EQUIPMENT LOCATION.
6) ALLOW A MINIMUM OF 24 INCHES ABOVE SOFTENER FOR FILLING.
7) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES.
8) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.
9) SYSTEMS USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM. INSTALL SIPHON BREAK ON DRAIN LINE. INSTALL VACUUM BREAKER ON INLET PIPING IF THE SERVICE LINE IS SUBJECT TO A VACUUM.
10) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
11) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

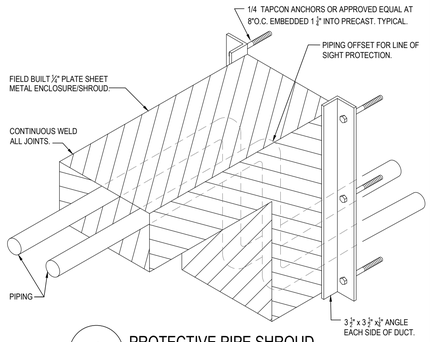
1 DUPLEX WATER SOFTENER
NO SCALE



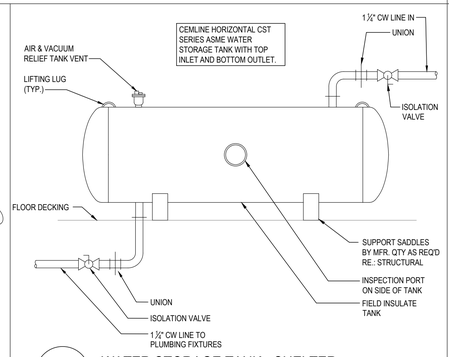
2 EXPOSED INSTANT - FLOW WATER HEATER
NO SCALE



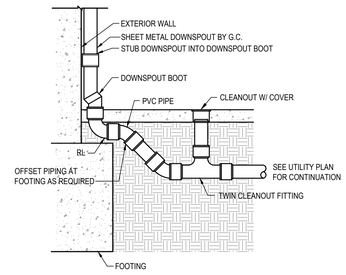
3 E.O.C. WALL PIPE / CONDUIT PENETRATION
NO SCALE



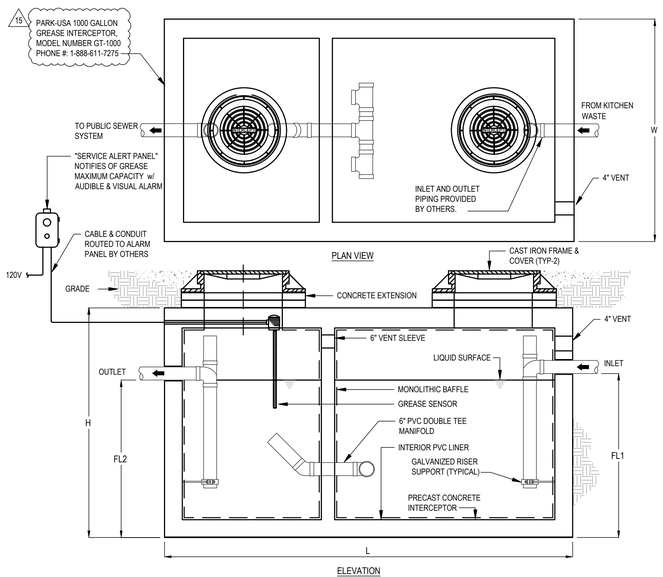
4 PROTECTIVE PIPE SHROUD
NO SCALE



5 WATER STORAGE TANK - SHELTER
NO SCALE



6 DOWNSPOUT CONNECTION
NO SCALE



GREASE INTERCEPTOR SCHEDULE								
MODEL NO.	CAPACITY Gal.	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-500	500	1,200	9,500	7'-10"	4'-4"	4'-6"	3'-3"	3'-0"
GT-750	750	1,700	9,900	7'-10"	4'-4"	6'-0"	4'-5"	4'-2"
GT-1000	1,000	2,300	13,350	8'-8"	5'-0"	6'-0"	4'-9"	4'-6"
GT-1250	1,250	2,900	14,650	9'-2"	5'-8"	6'-0"	4'-9"	4'-6"
GT-1500	1,500	3,500	16,050	9'-2"	5'-8"	7'-0"	5'-9"	5'-6"
GT-2000	2,000	4,600	21,250	9'-0"	6'-0"	8'-0"	6'-9"	6'-6"
GT-2500	2,500	5,700	27,050	13'-0"	7'-0"	7'-0"	5'-9"	5'-6"
GT-3000	3,000	6,900	33,150	13'-0"	7'-0"	8'-0"	6'-9"	6'-6"
GT-3500	3,500	8,000	38,550	13'-0"	7'-0"	8'-6"	7'-3"	7'-0"
GT-4000	4,000	9,300	38,100	16'-0"	8'-6"	7'-0"	5'-9"	5'-6"

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION

ENGINEERING DATA

THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFORM TO UPC/IPC AND REGIONAL PLUMBING CODES RECOMMENDED IN MOST CITIES. CONSULT WITH LOCAL AUTHORITIES FOR SPECIFIC APPLICATION REQUIREMENTS.

SHOP DRAWINGS SHALL INCLUDE COMPLETE STRUCTURAL & BOUYANCY CALCULATIONS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER UPON REQUEST.

CONSULT WITH PARK EQUIPMENT COMPANY FOR EXACT EXCAVATION DIMENSIONS & SHIPPING INFORMATION.

SPECIFICATIONS

CONCRETE: CLASS I/II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE WITH SECTIONAL RISER TO REQUIRED DEPTH. (MONOLITHIC BAFFLE REQUIRED, SLIDE-IN TYPE IS NOT ACCEPTABLE)

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

C.I. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30. MANHOLE SHALL BE NOMIMAL 24 INCH DIAMETER AND BE TRAFFIC DUTY.

7 GREASE INTERCEPTOR
NO SCALE

ARCHITECTS

GREG S. SCHLEY LICENSED ARCHITECT 4194 11/06/2026 KANSAS PROFESSIONAL ENGINEER

HAMMEY & ASSOCIATES, ARCHITECTS
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Phone (316) 683-8965
Fax (316) 684-1441

2025 SEDGWICK COUNTY

JUVENILE SERVICES BUILDING
881 MINNESOTA, WICHITA, KANSAS

DRAWINGS ISSUED		
NO.	DATE	ITEM ISSUED
15	11/06/26	ADDENDUM #3
14	10/23/26	ADDENDUM #2
13	9/17/26	BID SET
12	8/17/26	MABCD REVIEW
11	4/3/26	PERMIT

DRAWING FILE

DATE: SEPTEMBER 2026	
DRAWN BY:	CHECKED BY:
EP, GS	GS

SHEET

P5.2

BASIS consulting engineers
800 E 1st St • Suite 401
Wichita, Kansas 67202
basisengineers.com
Telephone 316.941.5533

11/5/2026 4:00:23 PM Edwin Peter M:\2024 Basis Consulting Engineers\24035.00 - SG County - Juvenile Services Building\Mechanical Files\24035.00 P05.1, P5.1, P6.1 (5 SHEETS).dwg

ELECTRICAL SYMBOL LIST (NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THESE DRAWINGS)

ABBREVIATIONS

SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
A	AMPS
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CT	MOUNTED ABOVE COUNTER TOP (ELEVATION MAY VARY)
CUH	CABINET UNIT HEATER
EF	EXHAUST FAN
ELEC	ELECTRIC
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
F	FUSE
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FMC	FLEXIBLE METALLIC CONDUIT
FTU	FAN TERMINAL UNIT
G	GROUND
GAP	GENERATOR ANNUNCIATOR PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
GTD	GENERATOR TRANSFER DEVICE
HP	HORSEPOWER
HT	HEAT TRACE
HV	HIGH VOLTAGE
IG	ISOLATED GROUND
INCAND	INCANDESCENT
JB	JUNCTION BOX
K	THOUSAND
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MH	MAN HOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NF	NON FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
P	POLE
PB	PULL BOX
PNL	PANEL
PWR	POWER
ST	STUNT TRIP
SW	SWITCH
T	TRANSFORMER
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UCT	MOUNTED UNDER COUNTER TOP (ELEVATION MAY VARY)
UG	UNDER GROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WG	WIRE GUARD
WP	WEATHER PROOF
XFMR	TRANSFORMER

POWER

SYMBOL	DESCRIPTION	MOUNTING
	20A-125V GFCI, TAMPER RESISTANT, GROUNDED RECEPTACLE	1'-4" AFF
	20A-125V DUPLEX, TAMPER RESISTANT, GROUNDED RECEPTACLE	1'-4" AFF
	20A-125V 4-PLEX, TAMPER RESISTANT, GROUNDED RECEPTACLE	1'-4" AFF
	SPECIAL OUTLET, SEE SCHEDULE OR AS NOTED	
F	BUSS #SSY BOX COVER UNIT & FUSTAT - MOUNT ON HOUSING OF EQUIPMENT SERVED, PROVIDE FUSE SIZED AT 125% OF MOTOR FLA OR PER MANUFACTURERS RECOMMENDATION	
$M	2-POLE MOTOR CONTROL SWITCH (HUBBELL #HBL7832D)	VERIFY
$T	20A-125V SPRING WOUND TIMER SWITCH	4'-0" AFF
	HEAVY DUTY SAFETY SWITCH (FUSE)	6'-0" TO TOP
	HEAVY DUTY SAFETY SWITCH (NON-FUSE)	6'-0" TO TOP
	COMBINATION SOLID STATE STARTER/SAFETY SWITCH (FUSE)	6'-0" TO TOP
VFD	VARIABLE FREQUENCY DRIVE	
	ELECTRICAL DISTRIBUTION PANELBOARD	6'-0" TO TOP
	SURFACE MOUNTED ELECTRICAL PANELBOARD	6'-0" TO TOP
	RECESSED MOUNTED ELECTRICAL PANELBOARD	6'-0" TO TOP
J	JUNCTION BOX	VERIFY
J	JUNCTION BOX	VERIFY
PP	POWER POLE	
	CIRCUIT BREAKER	VERIFY

SPECIAL SYSTEM DEVICES

SYMBOL	DESCRIPTION	MOUNTING
W (1)	TELEPHONE OUTLET (W=WALL, MOUNT AT 54" AFF)	1'-4" AFF
(1)	DATA NETWORK OUTLET (UP TO FOUR DATA CABLES)	1'-4" AFF
(1)	COMBINATION DATA / TELEPHONE OUTLET (SAME BOX)	1'-4" AFF
1 (1)	DATA DROP (ONE DATA CABLE ONLY)	1'-4" AFF
M	MICROPHONE OUTLET	1'-4" AFF
	WIRELESS ACCESS POINT DROP (ONE DATA CABLE)	CEILING
(1)	SMARTBOARD VIDEO DROP	1'-4" AFF
(1)	CABLE TV OUTLET	1'-4" AFF
C	INTERCOM CALL BUTTON	4'-6" AFF
V	VOLUME CONTROL	4'-6" AFF
N	NURSE CALL BUTTON	VARIES
B	CODE BLUE STATION	4'-6" AFF
	NURSE CALL DOME LIGHT	WALL
$	BOILER KILL SWITCH (MAINTAINED CONTACT)	4'-6" AFF
	OCCUPANCY SENSOR - DUAL TECHNOLOGY TYPE FOR SECURITY	6" BELOW CLG.
DC	DOOR CONTACT FOR SECURITY	DOOR FRAME
PS	PANIC SWITCH FOR SECURITY	DESK/CASEWORK
CR	DOOR CARD READER	VERIFY
PB	DOOR PUSH BUTTON / PLATE	VERIFY
	12" ROUND ANALOG CLOCK (15" MULTI-PURPOSE)	7'-6" AFF
	DIGITAL CLOCK	7'-6" AFF
	INTERCOM SPEAKER	CEILING
	INTERCOM SPEAKER	WALL
	AUDIO SPEAKER FOR PROJECTOR/SMARTBOARD	CEILING
	WIDE ANGLE PAGING HORN (WP=EXTERIOR)	VERIFY
	LOUDSPEAKER - MUSIC QUALITY	
	EXTERIOR SECURITY CAMERA	WALL / CEILING
C	INTERIOR SECURITY CAMERA	WALL / CEILING
9"x3"	CABLE TRAY (WIDTH x DEPTH)	
	SET OF (4) 4" CONDUIT SLEEVES FOR L.V. WIRING	

FIRE ALARM DEVICES

SYMBOL	DESCRIPTION	MOUNTING
	FIRE ALARM MANUAL STATION	4'-0" AFF
S	FIRE ALARM SMOKE DETECTOR	CEILING
H	FIRE ALARM HEAT DETECTOR	CEILING
SD	FIRE ALARM DUCT SMOKE DETECTOR	IN DUCT
	FIRE ALARM HORN/STROBE SIGNAL UNIT (WG=WIRE GUARD)	6'-8" AFF
	FIRE ALARM HORN/STROBE SIGNAL UNIT	CEILING
	FIRE ALARM STROBE SIGNAL UNIT	6'-8" AFF
	FIRE ALARM STROBE SIGNAL UNIT	CEILING
WP	FIRE ALARM HORN SIGNAL UNIT (WP = EXTERIOR)	6'-8" AFF
	FIRE ALARM HORN SIGNAL UNIT	CEILING
	MAGNETIC DOOR HOLD OPEN	VERIFY
TF	TAMPER / FLOW SWITCH	VERIFY

GENERAL

DESCRIPTION	MOUNTING
CONDUIT RUN, 2#12 & 1#12G. - 1/2" C.	WALL/CEIL
CONDUIT RUN, 2 CIRCUIT, 3#12 & 1#12G. - 1/2" C.	EARTH/FLOOR
CONDUIT RUN, 2#12 & 1#12G. - 1/2" C.	
CONDUIT RUN, 2#12, 1#12 I.G. & 1#12G. - 1/2" C.	
PARTIAL HOMERUN (SAME CIRCUIT USED MULTI. LOC'S.)	
1 DEMOLITION NOTE	
3 PLAN NOTE	
1 REVISION MARK & NUMBER	
1 / E-1.1 ELEVATION REFERENCE MARK: DETAIL NUMBER / SHEET NUMBER	
1 / E-1.1 SECTION CUT MARK: DETAIL NUMBER / SHEET NUMBER	

(1) SEE GENERAL NOTE #6.

LIGHTING (REFER TO LIGHT FIXTURE SCHEDULE)

SYMBOL	DESCRIPTION	MOUNTING
A	2'x4' LED LIGHT & FIXTURE LETTER (ACRYLIC)	LAY-IN
A	2'x4' LED LIGHT & FIXTURE LETTER (INDIRECT / PERF)	LAY-IN
A	2'x2' LED LIGHT & FIXTURE LETTER (INDIRECT / PERF)	LAY-IN
A	2'x4' LED LIGHT & FIXTURE LETTER (INDIRECT / LOUVER)	LAY-IN
A	2'x4' LED LIGHT & FIXTURE LETTER (DIRECT / LENS)	LAY-IN
A	2'x2' LED LIGHT & FIXTURE LETTER (DIRECT / LENS)	LAY-IN
A	2'x4' EMERGENCY LED LIGHT & FIXTURE LETTER	LAY-IN
A	20"x4' LED HIGH-BAY LIGHT & FIXTURE LETTER	SURFACE
A	1'x4' LED LIGHT & FIXTURE LETTER (ACRYLIC)	LAY-IN
A	1'x4' LED WRAPAROUND LIGHT & FIXTURE LETTER	SURFACE
A	LARGE SCALE PENDANT LIGHT & FIXTURE LETTER	CABLE/PENDANT
A	STAGGERED LED STRIP LIGHT & FIXTURE LETTER	SURFACE
A	LED STRIP LIGHT & FIXTURE LETTER	SURFACE
A	ROUND LED DOWN LIGHT & FIXTURE LETTER	RECESSED
A	UNDER CABINET LED LIGHT & FIXTURE LETTER	UNDER CABINET
A	FLUORESCENT OR LED LIGHT & FIXTURE LETTER	SURFACE/PENDANT
A A	TRACK LIGHT & FIXTURE LETTER	TRACK
A A	LED WALL LIGHT & FIXTURE LETTER	WALL
A A	LED AREA LIGHT & FIXTURE LETTER	POLE / FOUNDATION
A	LED LANDSCAPE LIGHT & FIXTURE LETTER	GROUND
A	LED BOLLARD LIGHT & FIXTURE LETTER	BOLLARD / FOUNDATION
E	BATTERY POWERED EMERGENCY LIGHT	WALL
	BATTERY POWERED EMERGENCY LIGHT	CEILING/LAY-IN
H	BATTERY POWERED LED EXIT LIGHT - SHADING DENOTES FACE(S)	CEIL/WALL
H	BATTERY POWERED LED EMERGENCY & EXIT LIGHT	CEIL/WALL
$ $3 $4 $P	SWITCHES (1-POLE, 3-WAY, 4-WAY, PILOT)	4'-0" AFF
a, b, c	INDICATES SWITCHING SCHEME	
	OCCUPANCY SENSOR - DUAL TECHNOLOGY TYPE FOR LIGHTING	CEILING
	OCCUPANCY SENSOR - 90° CORNER DUAL TECHNOLOGY TYPE FOR LTG	CEILING
A	OCCUPANCY SENSOR - P.I.R. TYPE FOR LIGHTING	4'-0" AFF
D	DIMMER SWITCH (VERIFY COMPATIBILITY WITH LOAD SERVED)	4'-0" AFF
Sx	LOW VOLTAGE LIGHTING SWITCH	4'-0" AFF
RC	ROOM LIGHTING CONTROLLER	
DS	DAYLIGHT SENSOR	CEILING
	CEILING FAN	CEILING/PENDANT

GENERAL NOTES

1.) ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF ALL APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO THE NATIONAL ELECTRICAL CODE, THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL FIRE CODE, AND THE INTERNATIONAL MECHANICAL CODE. IN ADDITION, ALL ELECTRICAL WORK SHALL CONFORM WITH THE A.D.A. (AMERICANS WITH DISABILITIES ACT). THE E.C. SHALL FOLLOW AND ADHERE TO ALL LOCAL CODES (COUNTY, CITY, STATE) AND AUTHORITIES HAVING JURISDICTION, INCLUDING ALL LOCAL UTILITY COMPANIES.

2.) VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN. COORDINATE WITH STRUCTURAL MEMBERS, COLUMNS, ETC. COORDINATE WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK. COORDINATE OUTLET MOUNTING HEIGHTS WITH CASEWORK AND ARCHITECTURAL FURNITURE LAYOUTS. THE OPERABLE PART OF ANY DEVICE SHALL BE LOCATED TO COMPLY WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

3.) REFER TO THE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS & SPECIFICATIONS FOR RELATED INFORMATION.

4.) REFER TO THE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR CONTROL WIRING REQUIREMENTS, T-STAT ROUGH-IN REQUIREMENTS, EXHAUST FAN PILOT SWITCH LOCATIONS, BOILER KILL SWITCH LOCATIONS, AND MECHANICAL EQUIPMENT LOCATIONS. SEE MECHANICAL PLANS.

5.) ALL RACEWAY BODIES (CONDUIT, NIPPLES, WIREWAYS, TROUGHS, GUTTERS, ETC.) HOUSING PHASE CONDUCTOR(S) SHALL BE PROVIDED WITH A FULL-LENGTH, "GREEN", INSULATED GROUNDING/BONDING CONDUCTOR SIZED ACCORDING TO THE RESPECTIVE PHASE CONDUCTORS - PER THE LATEST EDITION OF THE NEC.

6.) ROUTE 3/4" EMT (W/PULL ROPE) FROM EACH TELEPHONE OUTLET, COMPUTER NETWORK CABLE OUTLET, COMBINATION TELECOMP. OUTLET AND CABLE T.V. OUTLET TO NEAREST ACCESSIBLE CEILING CAVITY. PROVIDE 4-SQUARE BOX WITH PLASTER/EXTENSION RING (AS REQUIRED). TERMINATE EACH EMPTY CONDUIT PARALLEL WITH CEILING AND PROVIDE WITH INSULATED BUSHING. ALL COVERPLATES, CABLES, WIRING, TERMINATIONS, JACKS, LABELING, TESTING SHALL BE PROVIDED BY OTHERS.

7.) ALL HOMERUNS SHALL UTILIZE A DEDICATED NEUTRAL CONDUCTOR (NO SHARED NEUTRALS).

8.) E.C. SHALL PROVIDE & INSTALL 20A-1P-120V CIRCUIT(S) FOR ALL FIRE/SMOKE DAMPERS. ROUTE 2#12 & 1#12G. IN 1/2" EMT. CONNECT EA. F/S DAMPER VIA FUSTAT DEVICE. CONNECT A MAXIMUM OF (10) DAMPERS PER 20A CIRCUIT. CONNECT FOR PROPER OPERATION OF DAMPER(S) PER I.B.C. - VERIFY W/M.C. REFER TO THE MECHANICAL DRAWINGS FOR THE EXACT QUANTITY AND LOCATION OF ALL F/S DAMPERS. REFER TO THE I.B.C. AND THE LIFE SAFETY CODE FOR ALL REQUIREMENTS FOR ACCEPTABLE DAMPER CONTROL.

9.) USE #10AWG CONDUCTOR SIZE ON ALL 20A-120V BRANCH CIRCUIT HOMERUNS GREATER THAN 100FT. TO PREVENT EXCESSIVE VOLTAGE DROP.

10.) PROVIDE AND INSTALL CONDUIT "SLEEVES" WHERE LOW VOLTAGE WIRING IS REQUIRED TO PASS THROUGH WALLS. COORDINATE EXACT LOCATIONS, QUANTITIES, AND SIZES WITH VOICE/DATA SYSTEM SUPPLIER. SEAL AROUND ALL CABLING AFTER INSTALLATION TO MAINTAIN RATING AS SPECIFIED ON CODE PLAN.

11.) COORDINATE SMOKE DETECTOR LOCATIONS WITH M.C.'S AIR DIFFUSERS AND SPRINKLER HEADS. MAINTAIN A MINIMUM OF 3'-0" BETWEEN ALL SMOKE DETECTORS AND AIR DIFFUSERS. MAINTAIN A MINIMUM OF 1'-6" BETWEEN ALL SMOKE DETECTORS AND SPRINKLER HEADS.

12.) ALL EXISTING FIXTURES, DEVICES, AND WIRING ARE SHOWN WITH A SUBDUED LINETYPE. ALL NEW FIXTURES, DEVICES, AND WIRING ARE SHOWN WITH A BOLD LINETYPE.

13.) USE CONCEALED WIRING METHODS WHEREVER POSSIBLE, OTHERWISE, USE SURFACE MOUNTED WIREMOLD RACEWAYS AND BOXES. WIREMOLD SHALL BE INSTALLED IN A NEAT-AND-WORKMANLIKE MANNER USING APPROPRIATE FITTINGS. HOLD TIGHT AGAINST WALLS, CEILINGS, AND CORNERS. PROVIDE WIREMOLD BOXES WHERE REQUIRED FOR LONG PULLING RUNS AND/OR MULTIPLE 90 DEGREE TURNS. WIREMOLD WILL NOT BE PERMITTED IN THE NEW ADDITIONS OR ON NEW WALLS. EXPOSED CONDUIT IN FINISHED AREAS WILL NOT BE PERMITTED.

14.) PROVIDE IN-LINE COMPRESSION SPLICES WHERE EXISTING FEEDERS OR BRANCH CIRCUITS LARGER THAN #8AWG MUST BE SPLICED. INSULATE SPLICE WITH HEAVY WALL SHRINK TUBING W/SEALANT. KEEP ALL SPLICING TO A MINIMUM - UNNECESSARY SPLICES WILL NOT BE ACCEPTED.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL NO.	LAMPS	VOLT.	MOUNTING	NOTES
A	2x4 LED LAY-IN	LITHONIA LIGHTING	2RTL4 40L EZ1 LP840	4,000 Lumens, 4000K	UNV	LAY-IN	
A2	2x2 LED LAY-IN	LITHONIA LIGHTING	2RTL2 33L EZ1 LP840	3,300 Lumens, 4000K	UNV	LAY-IN	
B	2x4 LED FLAT PANEL	MARK ARCHITECTURAL LIGHTING	WHSPR 2X4 4800LM TUWH PROR 90CRI DARK 120 YBC	4,800 Lumens, 4000K	UNV	LAY-IN	
C	2x4 LED FLAT PANEL	LITHONIA LIGHTING	CPX 2X4 4000LM 80CRI 40K SWL MIN10 MVOLT	4,000 Lumens, 4000K	UNV	LAY-IN	
C2	2x2 LED FLAT PANEL	LITHONIA LIGHTING	CPX 2X2 3200LM 80CRI 40K SWL MIN10 MVOLT	3,200 Lumens, 4000K	UNV	LAY-IN	
D	48" LED WRAPAROUND	LITHONIA LIGHTING	BLWP4 40L GZ10 LP840	4,000 Lumens, 4000K	UNV	SURFACE	
E	EMERGENCY LIGHT	LITHONIA LIGHTING	ELM4L	LED PROVIDED W/UNIT	UNV	SURFACE	(2)
EP	ELEVATOR PIT LIGHT	HUBBELL	VW-151	(1) LED A19	120	SURFACE/WALL	
F	2x4 LED FLAT PANEL	LITHONIA LIGHTING	CPX 2X4 6000LM 80CRI 40K SWL MIN10 MVOLT	6,000 Lumens, 4000K	UNV	LAY-IN	
G	LED HIGH BAY	LITHONIA LIGHTING	CPHB 18000LM SEF GCL WD MVOLT GZ10 40K 90CRI CNP5CDW DWH	18,000 Lumens, 4000K	UNV		
H	4' LED STRIP FIXTURE	LITHONIA LIGHTING	ZL1D L48 5000LM FST MVOLT 40K 80CRI MB	5,000 Lumens, 4000K	UNV	SURFACE/WALL	
H2	2' LED STRIP FIXTURE	LITHONIA LIGHTING	ZL1D L24 1500LM FST MVOLT 40K 80CRI MB	1,500 Lumens, 4000K	UNV	SURFACE/SUSPENDED	
H4	4' LED STRIP FIXTURE	LITHONIA LIGHTING	ZL1D L48 5000LM FST MVOLT 40K 80CRI MB	5,000 Lumens, 4000K	UNV	SURFACE/SUSPENDED	
K	8' LED LINEAR SLOT	MARK ARCHITECTURAL LIGHTING	SL2L LOP 8FT FLP GB 90CRI 40K 1000LMF MIN1 120 ZT	1,000 Lumens/Ft, 4000K	120	RECESSED	
K2	2' LED LINEAR FIXTURE	MARK ARCHITECTURAL LIGHTING	SL2L LOP 2FT FLP GB 90CRI 40K 800LMF MIN1 120 ZT	800 Lumens/Ft, 4000K	UNV	RECESSED	
K3	3' LED LINEAR FIXTURE	MARK ARCHITECTURAL LIGHTING	SL2L LOP 3FT FLP GB 90CRI 40K 800LMF MIN1 120 ZT	800 Lumens/Ft, 4000K	UNV	RECESSED	
K4	4' LED LINEAR FIXTURE	MARK ARCHITECTURAL LIGHTING	SL2L LOP 4FT FLP GB 90CRI 40K 800LMF MIN1 120 ZT	800 Lumens/Ft, 4000K	UNV	RECESSED	
KP4	4' LED LINEAR FIXTURE	MARK ARCHITECTURAL LIGHTING	SCT				
LH	6" LED DOWNLIGHT	GOTHAM	EV06 40/80 AR LD MD MVOLT EZ1	8,000 Lumens, 4000K	UNV	RECESSED	
L4	4" LED DOWNLIGHT	JUNO	IC1LEDFW WD 07LM 30K 90CRI WFL 120 FRPC 14 WWH	700 Lumens, 3000K	UNV	RECESSED	
L6	6" LED DOWNLIGHT	JUNO	IC22LED G4 09LM 40K 90CRI MVOLT EZ1 27 HZWH	900 Lumens, 4000K	UNV	RECESSED	
LS	6" LED SHOWER DOWNLIGHT	GOTHAM	EV06SH 40/10 DFFAMF SOL MVOLT EZ1	1,000 Lumens, 4000K	UNV	RECESSED	
M	EXTERIOR WALL PACK	LITHONIA LIGHTING	WDGE1 LED P2 40K 80CRI VW MVOLT DDBXD	4W, 4000K	UNV	SURFACE	
M1	EXTERIOR WALL PACK	LITHONIA LIGHTING	WDGE2 LED P2 40K 80CRI T3M MVOLT DDBXD	15W, 4000K	UNV	SURFACE	15
P	3" DIA. LED PENDANT	ALW	TZSP D V D 10 98 40 22 SG BK	950 Lumens, 4000K	UNV	PENDANT	
Q4	6" DIA. X 46" LED PENDANT	ALW	T4LP R V D 40 98 40 46 SG BK	4,000 Lumens, 4000K	UNV	PENDANT	
Q6	6" DIA. X 70" LED PENDANT	ALW	T4LP R V D 40 98 40 70 SG BK	4,000 Lumens, 4000K	UNV	PENDANT	
Q8	6" DIA. X 94" LED PENDANT	ALW	T4LP R V D 40 98 40 94 SG BK	4,000 Lumens, 4000K	UNV	PENDANT	
S	6" DIAM. PENDANT	GOTHAM	EV06CC				
U	22" LED UNDERCABINET	JUNO	UPLD 22IN SWW4 90CRI WH UCD JB M12			SURFACE	
W	LED AREA LIGHT	LITHONIA LIGHTING	DSCO LED 40K T3M MVOLT RPA DDBXD	24,000 Lumens, 4000K	UNV	28' POLE	(3)
W2	LED AREA LIGHT	LITHONIA LIGHTING	DSCO LED 40K T3M MVOLT RPA DDBXD	24,000 Lumens, 4000K	UNV	28' POLE	(3)
X	POWERED LED EXIT SIGN EDGE LIT	LITHONIA LIGHTING	LQC W 1 R	LED PROVIDED W/UNIT	UNV	SURFACE	(1)

GENERAL NOTES:
- REFER TO ALL PLAN SHEETS AND SPECIFICATIONS FOR LIGHT FIXTURE REQUIREMENTS. DO NOT RELY SOLELY ON THE 'LIGHT' FIXTURE SCHEDULE.
- VERIFY ALL MOUNTING HEIGHTS OF WALL MOUNTED & PENDANT MOUNTED FIXTURES WITH ARCHITECT.

LIGHT FIXTURE SCHEDULE NOTES:
(1) CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING FOR EMERGENCY (BATTERY) ILLUMINATION. PROVIDE ALL REQUIRED CANOPY ACCESSORIES FOR CEILING MOUNTED LOCATIONS. PROVIDE ALL ARROWS AND FACES PER PLANS.
(2) CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING FOR EMERGENCY (BATTERY) ILLUMINATION.
(3) PROVIDE 28' ROUND, TAPPERED STEEL POLE. SEE SPECIFICATIONS.

SPECIAL OUTLET SCHEDULE

SYMBOL	DESCRIPTION
1	DUPLEX W/USB CHARGER RECEPTACLE: (1) 20A-125V, NEMA 5-20R, DUPLEX WITH (2) USB PORTS TYPE A & C. LEVITON #ACZX3. PROVIDE MATCHING NYLON COVERPLATE.
2	NOT USED.
3	3-SERVICE FLOOR BOX: (1) 20A-125V, NEMA 5-20R, DUPLEX RECEPTACLE PER SPECIFICATIONS. PROVISIONS FOR (1) TELEPHONE & (2) CAT5 DATA JACKS. HUBBELL FLOOR BOX #S5FBSS, WITH FLUSH THERMOPLASTIC COVER/CARPET FLANGE. MOUNT FLUSH IN FLOOR. VERIFY EXACT LOCATION AND COLOR W/ARCHITECT. (PROVIDE TVSS WHERE INDICATED ON PLANS).
4	3-SERVICE LARGE CAPACITY FLOOR BOX: (4) 20A-125V, NEMA 5-20R, ISOLATED GROUND DUPLEX RECEPTACLES PER SPECIFICATIONS. PROVISIONS FOR (4) CAT5 DATA JACKS. HUBBELL FLOOR BOX #LCFBSS, WITH FLUSH NYLON COVER/CARPET FLANGE. MOUNT FLUSH IN FLOOR. VERIFY EXACT LOCATION AND COLOR W/ARCHITECT.
5	DRYER RECEPTACLE: 30A-250V, NEMA 14-30R, SINGLE RECEPTACLE, HUBBELL #HBL9430A (OR EQUAL). MOUNT AT 40" A.F.F. PROVIDE STAINLESS STEEL COVERPLATE. E.C. SHALL PROVIDE NEW CORD & PLUG FOR OWNER FURNISHED EQUIPMENT (AS REQUIRED TO MATCH THIS RECEPTACLE NEMA CONFIGURATION). VERIFY WITH OWNER'S EQUIPMENT PRIOR TO ORDERING.
6	4-PLEX TVSS COMPUTER RECEPTACLE: (2) BLUE 20A-125V, NEMA 5-20R, ISOLATED GROUND, TVSS DUPLEX RECEPTACLES PER SPECIFICATIONS. MOUNT AT 1'-3" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE STAINLESS STEEL COVERPLATE.
7	DUPLEX EMERGENCY GFCI RECEPTACLE: RED, 20A-125V, NEMA 5-20R, DUPLEX GFCI PER SPECIFICATIONS. MOUNT AT 36" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE STAINLESS STEEL RED COVERPLATE.
8	RANGE RECEPTACLE: 50A-250V, NEMA 14-50R, SINGLE RECEPTACLE. HUBBELL #HBL9450A (OR EQUAL). MOUNT AT 8" A.F.F. PROVIDE STAINLESS STEEL COVERPLATE. E.C. SHALL PROVIDE NEW CORD & PLUG FOR OWNER FURNISHED EQUIPMENT (AS REQUIRED TO MATCH THIS RECEPTACLE NEMA CONFIGURATION). VERIFY WITH OWNER'S EQUIPMENT PRIOR TO ORDERING.
9	A/V WALL BOX: (1) 20A-125V, NEMA 5-20R, DUPLEX RECEPTACLE PER SPECIFICATIONS. FSR #PWB-250. STUB (1) 3/4" EMT FOR POWER. (1) 1" EMT TO ACCESSIBLE CEILING FOR LOW VOLTAGE CABLING.
10	NOT USED.
11	SINGLE RECEPTACLE: (1) 20A-125V, NEMA 5-20R, SINGLE RECEPTACLE PER SPECIFICATIONS. MOUNT AT 2'-6" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE NYLON COVERPLATE.

DISCONNECT SWITCH SCHEDULE

(SWITCHES TO BE MOUNTED AT UNIT SERVED)

LOAD SERVED	DISCONNECT SWITCH SIZE (FUSE)	WIRE/CONDUIT SIZE FROM SOURCE TO EQUIPMENT
AHU-02, AHU-06, AHU-08	30A-3P-240V-3R (15A)	3#12 & 1#12G. IN 1/2" C.
AHU-01, AHU-03 & AHU-04	30A-3P-240V-3R (25A)	3#10 & 1#10G. IN 1/2" C.
AHU-05	100A-3P-240V-3R (70A)	3#4 & 1#8G. IN 1" C.
AHU-07	200A-3P-600V-3R (100A)	3#3 & 1#8G. IN 1 1/4" C.
CH-01 & CH-02	400A-3P-240V-3R (NF)	3#500 & 1#3G. IN 3" C.
MCU-01, MCU-02, MCU-03 & MCU-04	30A-2P-240V-3R (20A)	2#12 & 1#12G. IN 1/2" C.
WH-01, WH-02, WH-03	30A-2P-240V (NF)	2#12 & 1#12G. IN 1/2" C.
BP-01, BP-02	30A-2P-240V (NF)	2#12 & 1#12G. IN 1/2" C.
DISHWASHER	60A-2P-240V (45A)	
FUTURE DISHWASHER	60A-2P-240V (45A)	
EF-29	60A-3P-240V-3R (35A)	3#6 & 1#10G. IN 3/4" C.
EF-30, EF-32	30A-3P-240V-3R (15A)	3#12 & 1#12G. IN 1/2" C.
EF-31	30A-3P-240V-3R (10A)	3#12 & 1#12G. IN 1/2" C.
EF-31, EF-33	30A-3P-240V-3R (5A)	3#12 & 1#12G. IN 1/2" C.

COMB. DISC. SWITCH / STARTER SCHEDULE

(COMBINATION SWITCH/STARTER TO BE MOUNTED AT UNIT SERVED)

EQUIP. I.D. TAG	DISC. SWITCH SIZE (FUSE) / STARTER SIZE	LOAD VA	H.P.	WIRE/CONDUIT SIZE FROM PANEL TO DISCONNECT SWITCH
CWPP-1, 2	30A-3P-600V (15A)	3,819	3	3#12 & 1#12G. IN 1/2" C.
	NEMA SIZE 0 : 3P-208V			
HWPP-1, 2	30A-3P-600V (3.5A)	1,673	1	3#12 & 1#12G. IN 1/2" C.
	NEMA SIZE 0 : 3P-480V			

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2025 SEDGWICK COUNTY JUVENILE SERVICES BUILDING
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15	11/6/26	ADDENDUM #3
13	9/17/26	BID SET
12	8/17/26	MABCD REVIEW
11	4/3/26	PERMIT

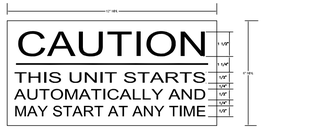
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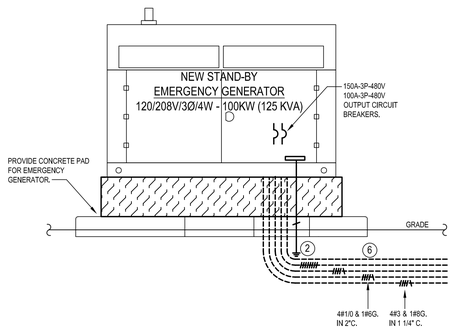
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GENERATOR WARNING SIGN DETAIL

NO SCALE

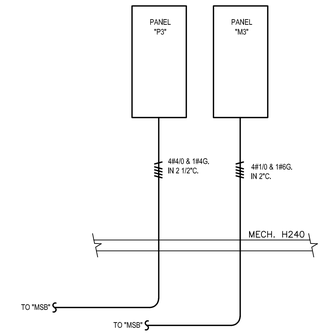
NOTE: SIGN TO BE CONSTRUCTED OF RED - WHITE PLASTIC LAMINATE USING RED LETTERS ON WHITE BACKGROUND. SIGN TO BE ATTACHED TO GENERATOR HOUSING AT A CONSPICUOUS LOCATION, USING PEEL-OFF ADHESIVE BACKPLATE AND RIVETS.

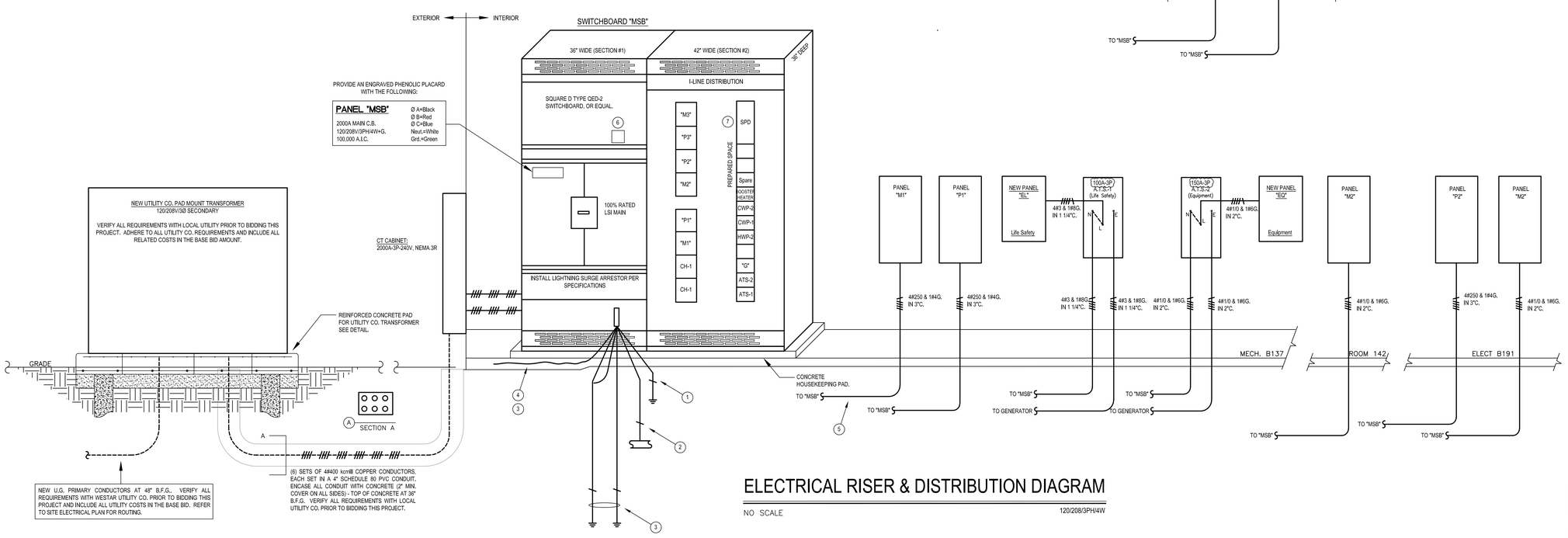


RISER DIAGRAM NOTES

1. 1#3/0 INSULATED COPPER GROUNDING ELECTRODE CONDUCTOR CONNECTED TO BUILDING STEEL.
2. 1#3/0 GROUND CONNECTED TO WATER SERVICE AT POINT WATER LINE ENTERS BUILDING NOT EXCEEDING 5ft BEYOND POINT OF ENTRANCE. VERIFY LOCATION AND ROUTING AT THE SITE.
3. 1#6 BARE GROUND IN 1/2" PVC CONNECTED TO 3/4"DIA. X 10' LONG COPPER GROUND ROD (CADWELD) AND DRIVEN TO A MINIMUM DEPTH OF 10'. TYPICAL OF (2) RODS SPACED 10' APART. FIELD VERIFY EXACT INSTALLATION LOCATION.
4. 20FT. OF #3/0 BARE COPPER GROUNDING ELECTRODE CONDUCTOR EMBEDDED IN BUILDING CONCRETE FOUNDATION.
5. ALL FEEDERS ROUTED BELOW GRADE SHALL BE PVC SCHEDULE 40 (U.N.O.). ALL BENDS SHALL BE G.R.S. - CONVERT TO G.R.S. BEFORE RISING ABOVE FINISHED FLOOR. NO ELECTRICAL PVC INSIDE BUILDING.
6. PROVIDE SWITCHBOARD "MSB" WITH POWER METERING EQUAL TO SQUARE D PM5350. PROVIDE (1) CAT 6 NETWORK DROP FROM THE METER TO THE MAIN SERVER RACK.
7. INTEGRAL UNIT DIRECTLY CONNECTS TO BUS, EQUAL TO SQUARE D #FC2IMA24C.

15





ELECTRICAL RISER & DISTRIBUTION DIAGRAM

NO SCALE

120/208/3PH/4W

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JUVENILE SERVICES BUILDING

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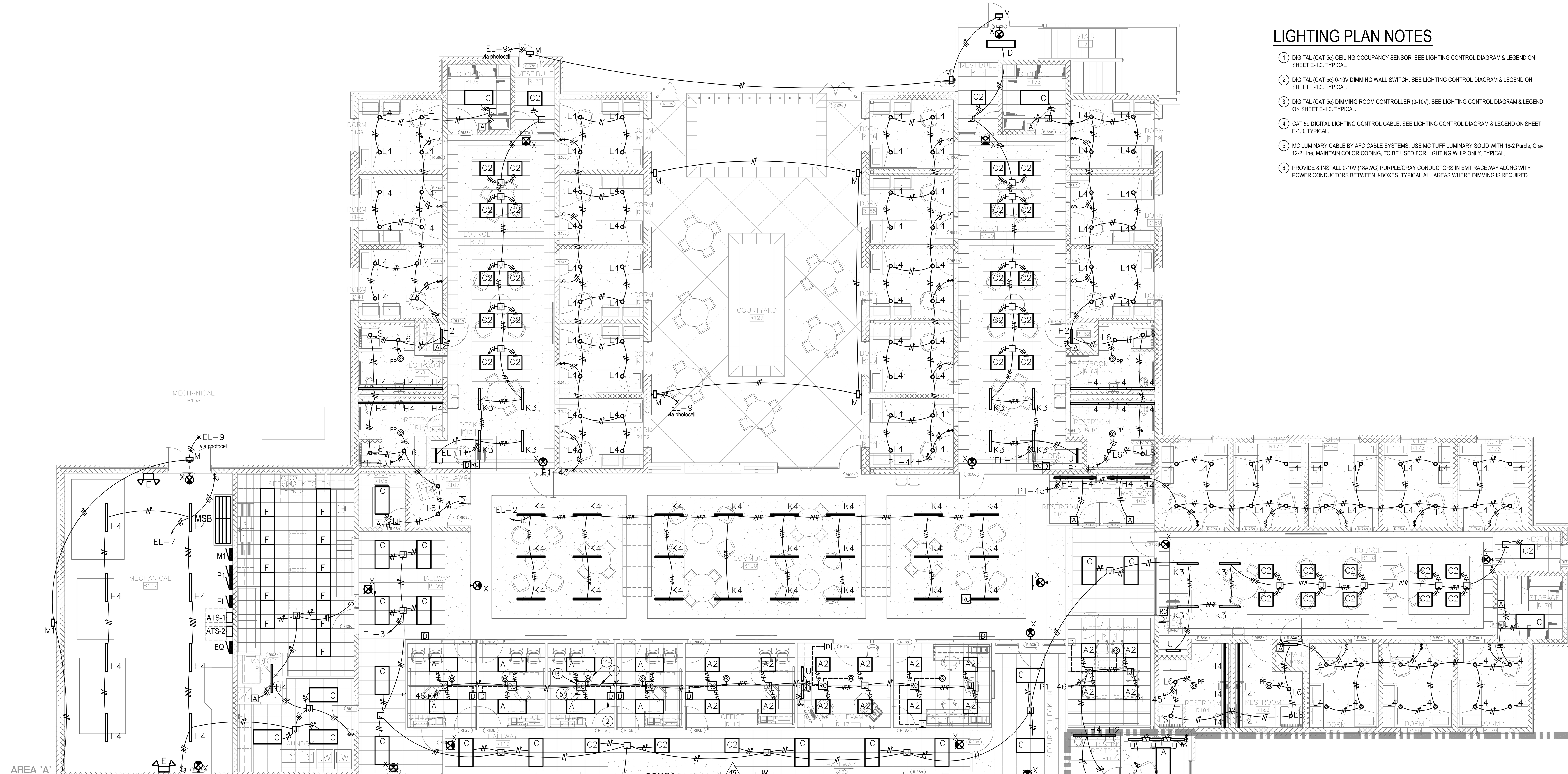
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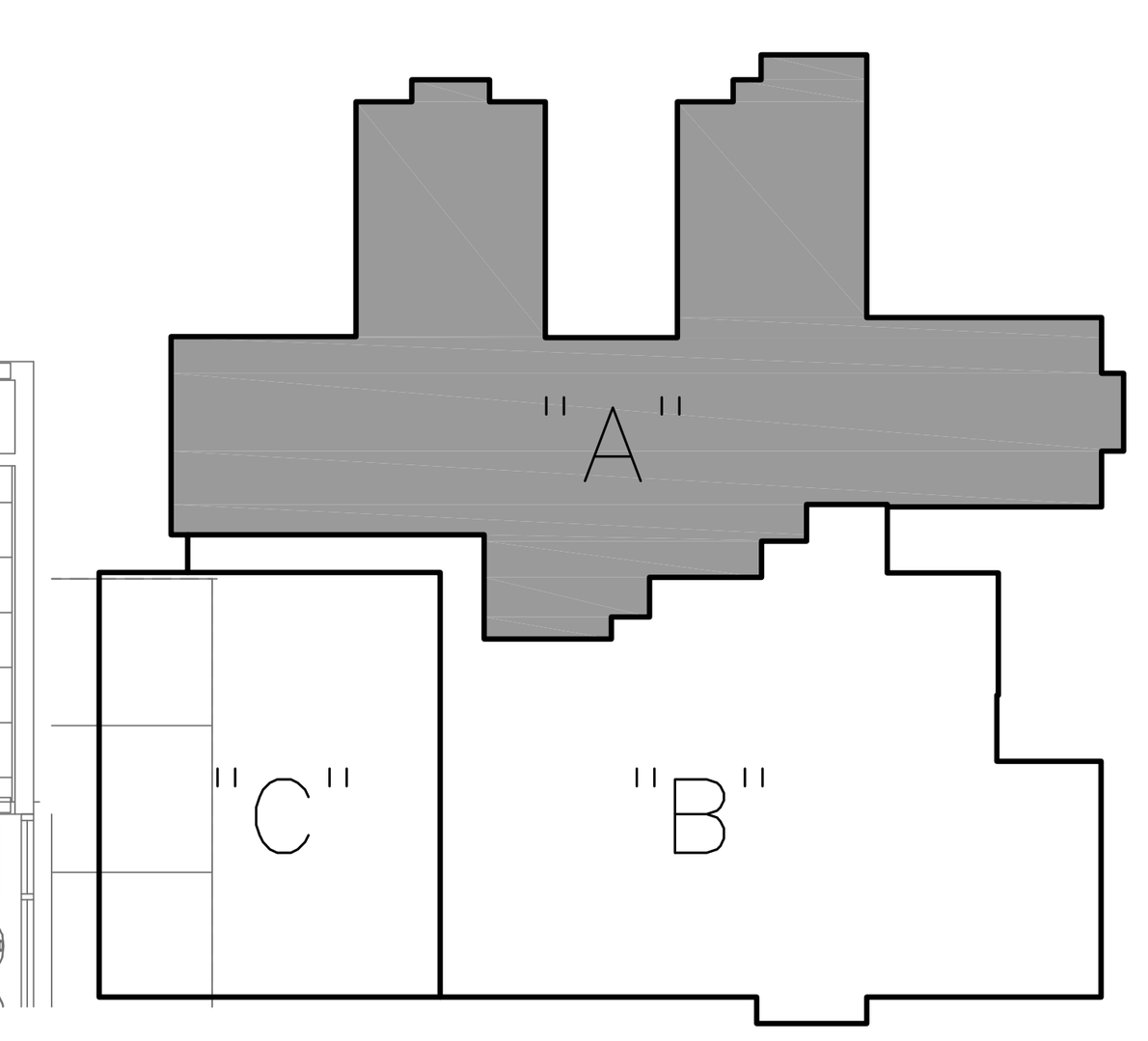
A FIRST FLOOR ELECTRICAL LIGHTING PLAN - AREA "A"

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

NORTH

LIGHTING PLAN NOTES

1. DIGITAL (CAT 5e) CEILING OCCUPANCY SENSOR. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
2. DIGITAL (CAT 5e) 0-10V DIMMING WALL SWITCH. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
3. DIGITAL (CAT 5e) DIMMING ROOM CONTROLLER (0-10V). SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
4. CAT 5e DIGITAL LIGHTING CONTROL CABLE. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
5. MC LUMINARY CABLE BY AFC CABLE SYSTEMS, USE MC TUFF LUMINARY SOLID WITH 16-2 Purple, Gray; 12-2 Line. MAINTAIN COLOR CODING, TO BE USED FOR LIGHTING WHIP ONLY. TYPICAL.
6. PROVIDE & INSTALL 0-10V (18AWG) PURPLE/GRAY CONDUCTORS IN EMT RACEWAY ALONG WITH POWER CONDUCTORS BETWEEN J-BOXES. TYPICAL ALL AREAS WHERE DIMMING IS REQUIRED.



FIRST FLOOR KEY PLAN

ARCHITECTS

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11	4/3/26	PERMIT

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LIGHTING PLAN NOTES

1. DIGITAL (CAT 5e) CEILING OCCUPANCY SENSOR. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
2. DIGITAL (CAT 5e) 0-10V DIMMING WALL SWITCH. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
3. DIGITAL (CAT 5e) DIMMING ROOM CONTROLLER (0-10V). SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
4. CAT 5e DIGITAL LIGHTING CONTROL CABLE. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
5. MC LUMINARY CABLE BY AFC CABLE SYSTEMS, USE MC TUFF LUMINARY SOLID WITH 16-2 Purple, Gray; 12-2 Line. MAINTAIN COLOR CODING, TO BE USED FOR LIGHTING WHIP ONLY, TYPICAL.
6. PROVIDE & INSTALL 0-10V (18AWG) PURPLE/GRAY CONDUCTORS IN EMT RACEWAY ALONG WITH POWER CONDUCTORS BETWEEN J-BOXES. TYPICAL ALL AREAS WHERE DIMMING IS REQUIRED.

A FIRST FLOOR ELECTRICAL LIGHTING PLAN - AREA "B"
SCALE: 1/8" = 1'-0"

NORTH



FIRST FLOOR KEY PLAN

ARCHITECTS

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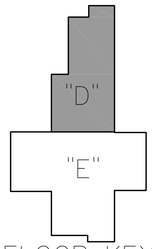
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A SECOND FLOOR ELECTRICAL LIGHTING PLAN - AREA "D"

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

NORTH



SECOND FLOOR KEY PLAN

LIGHTING PLAN NOTES

1. DIGITAL (CAT 5e) CEILING OCCUPANCY SENSOR. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
2. DIGITAL (CAT 5e) 0-10V DIMMING WALL SWITCH. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
3. DIGITAL (CAT 5e) DIMMING ROOM CONTROLLER (0-10V). SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
4. CAT 5e DIGITAL LIGHTING CONTROL CABLE. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
5. MC LUMINARY CABLE BY AFC CABLE SYSTEMS. USE MC TUFF LUMINARY SOLID WITH 16-2 Purple, Gray; 12-2 Line. MAINTAIN COLOR CODING. TO BE USED FOR LIGHTING WHIP ONLY. TYPICAL.
6. PROVIDE & INSTALL 0-10V (18AWG) PURPLE/GRAY CONDUCTORS IN EMT RACEWAY ALONG WITH POWER CONDUCTORS BETWEEN J-BOXES. TYPICAL ALL AREAS WHERE DIMMING IS REQUIRED.

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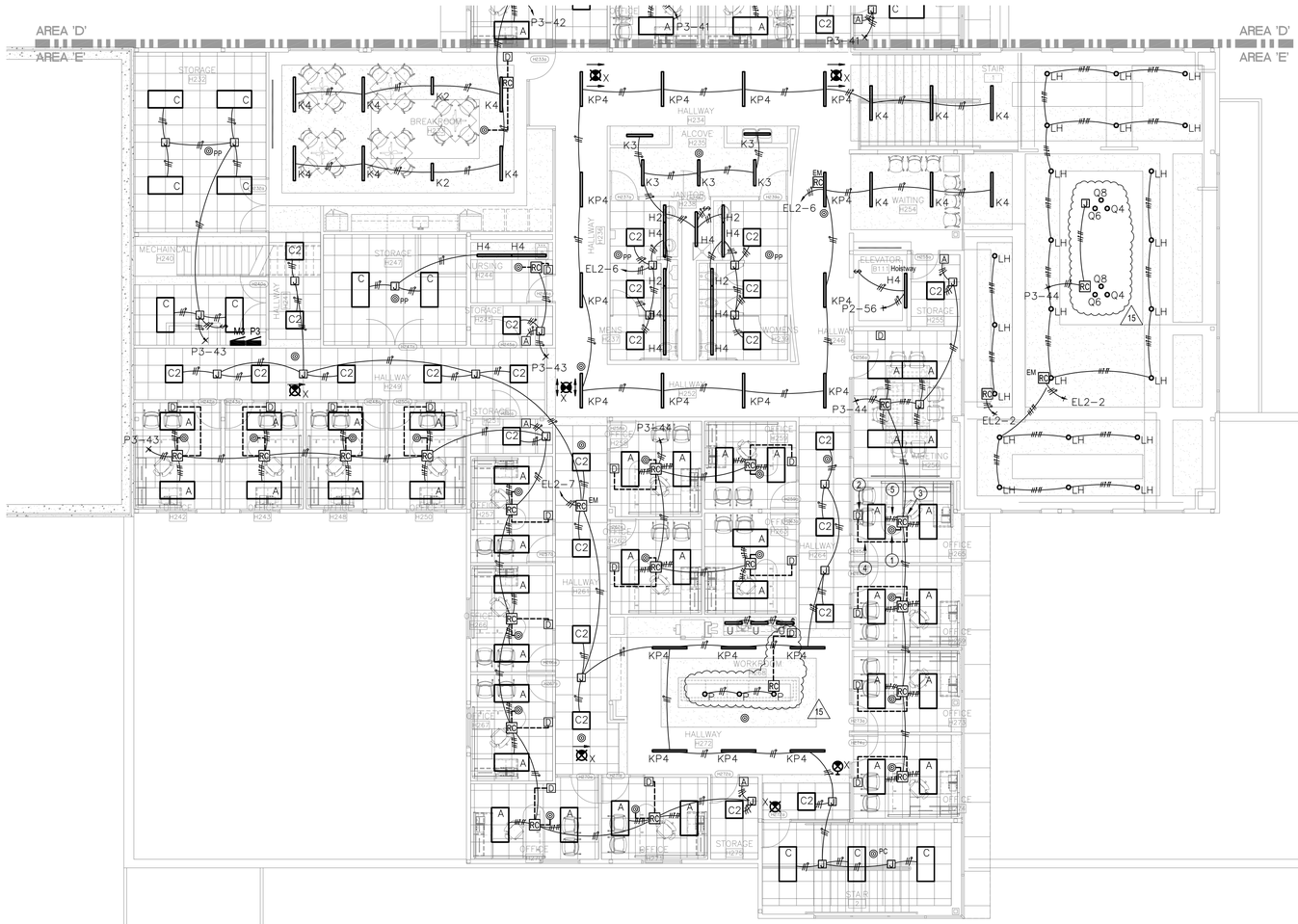
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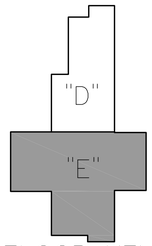
A SECOND FLOOR ELECTRICAL LIGHTING PLAN - AREA "E"

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

NORTH

LIGHTING PLAN NOTES

1. DIGITAL (CAT 5e) CEILING OCCUPANCY SENSOR. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
2. DIGITAL (CAT 5e) 0-10V DIMMING WALL SWITCH. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
3. DIGITAL (CAT 5e) DIMMING ROOM CONTROLLER (0-10V), SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
4. CAT 5e DIGITAL LIGHTING CONTROL CABLE. SEE LIGHTING CONTROL DIAGRAM & LEGEND ON SHEET E-1.0. TYPICAL.
5. MC LUMINARY CABLE BY AFC CABLE SYSTEMS. USE MC TUFF LUMINARY SOLID WITH 16-2 Purple, Gray; 12-2 Line. MAINTAIN COLOR CODING, TO BE USED FOR LIGHTING WHIP ONLY. TYPICAL.
6. PROVIDE & INSTALL 0-10V (18AWG) PURPLE/GRAY CONDUCTORS IN EMT RACEWAY ALONG WITH POWER CONDUCTORS BETWEEN J-BOXES. TYPICAL ALL AREAS WHERE DIMMING IS REQUIRED.



SECOND FLOOR KEY PLAN

ARCHITECTS

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