



REQUEST FOR PROPOSAL
For
Pikes Peak Library District – Penrose Library
Interior Renovations

PIKES PEAK LIBRARY DISTRICT
Colorado Springs, CO

RFP # 490-24-02-PE

The Pikes Peak Library District (PPLD) invites contractors, with the qualifications as stated herein, to submit a response to a Request for Proposal (RFP) for the Penrose Library, 20 N. Cascade Ave. Colorado Springs, CO 80903, for Interior Renovations.

Proposal deadline is **2 p.m. MST on September 6, 2024**

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1. Terms & Condition

- 1.1. Purpose: PPLD is seeking proposals from qualified contractors experienced with interior renovations for the Penrose Library. Contractors must be able to certify they have the capabilities and resources to provide all services outlined in the statement of work for this project.
- 1.2. Interested Parties: All interested contractors that have the qualifications as stated herein are invited to submit a proposal in accordance with the terms, conditions, and specifications contained herein, provided by Design Edge (711 N. Cascade Ave.) An electronic version of this document can be accessed at: <http://ppld.org/request-for-proposals>.
- 1.3. Point of Contact: Questions and requests for clarification must be sent via e-mail to Travis Keeton, Interim Chief Facilities Management Officer at tkeeton@ppld.org; CC: khoggatt@ppld.org & Sdunkley@ppld.org. Please include the RFP number, title, and words “question” and/or “clarification” in the subject line of the e-mail.
 - 1.3.1. Project Lead: Travis Keeton; tkeeton@ppld.org
 - 1.3.2. Project Sponsor: Michael Branter; mbrantner@ppld.org
 - 1.3.3. Project Manager: Scott Dunkley; sdunkley@ppld.org
 - 1.3.4. Project Architect: Swagata Guha

Questions and requests without this subject identification may be considered routine emails and may not be promptly addressed.

All answers to questions and requests for clarification will be posted on the PPLD website: <http://ppld.org/request-for-proposals> .

Any PPLD response that is considered to be a change in terms, conditions, and specifications of this RFP will be published as an addendum. No communications of any kind may be considered as a change to the terms, conditions, and specifications in this RFP unless posted as a formal addendum on the link above.
- 1.4. Equal Opportunity: The Contractor agrees not to refuse to hire, discharge, promote, or demote, nor to discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, marital status, or physical or mental disability.
- 1.5. Expenses: PPLD assumes no liability for payment of expenses incurred by proposers in the preparation and submission of proposals in response to this invitation.
- 1.6. Conflict of Interest: Any contractual relationship with any PPLD personnel in the twelve (12) months preceding the distribution of this RFP, or any similar or potential conflicts of interest, may, at the sole discretion of PPLD, be grounds for rejection of the proposal and/or termination of any contract awarded
- 1.7. Independent Contractor: The Contractor is an independent contractor. Notwithstanding any provision appearing in this RFP, all personnel assigned by the Contractor to perform work under the terms of this RFP and any subsequent agreement shall be, and remain at all times, employees or agents of the Contractor for all purposes. The Contractor shall make no representation that it is the employee of PPLD for any purpose.
- 1.8. Immigration Clause: The Contractor is aware of Colorado’s Immigration /Illegal alien laws pertaining to public contracts. Addendum C - Immigration Clause for Contracts (Colorado Statute 8-17.5-102) must be signed and attached.
- 1.9. General Requirements: PPLD reserves the right to amend this RFP up to seven (7) business days prior to the date set for receipt of proposals. In addition, PPLD may extend deadlines or withdraw this RFP at any time prior to an award.
- 1.10. Tax Exemption: PPLD, as a local government entity, is **exempt from sales and use taxes**. Contractors

will inform all prospective subcontractors and suppliers, as necessary, from whom they expect to obtain services or supplies of the tax-exempt status of PPLD. Following the contract award, PPLD will furnish tax exemption certificate(s) to the Contractor.

1.11. Governing Law: The laws of the State of Colorado shall govern any contract executed between the successful proposer and PPLD. Further, the place of performance and transaction of business shall be deemed to be in the County of El Paso, State of Colorado, and in the event of litigation, the exclusive venue and place of jurisdiction shall be the State of Colorado, and more specifically, El Paso County, Colorado.

1.12. RFP Schedule:

RFP released	August 9, 2024
Mandatory Pre-bid site walk.....	August 14, 2024, at 9 AM MT
Deadline for final questions.....	August 21, 2024, at 2 PM MT
Deadline to return answered questions	August 23, 2024, at 2 PM MT
Proposals due.....	September 6, 2024 @ 2:00 PM MT
Board Review and Decision	September 18, 2024
Award Notification	On or about September 20, 2024

2. Proposal Submission, Selection, and Contract Formation

2.1. Proposal Submission

2.1.1. Substantive proposals: By submitting a proposal, the proposer guarantees that (a) its proposal is genuine and is not made in the interest of, or on behalf of, any undisclosed person, Contractor, or corporation; (b) it has not directly or indirectly induced or solicited any other respondent to put in a false or sham bid; (c) it has not solicited or induced any other person, Contractor, or corporation from proposing; (d) it has not sought by collusion to obtain for itself any advantage over any other proposer or over PPLD.

2.1.2. Submission Information and Documents: The proposal must be comprehensive and address all RFP requirements. To assure that the information provided can be readily identified, the proposal must include, but not limited to, the submission of the following signed documents:

2.1.2.1. Addendum A - PROPOSAL COVER SHEET

2.1.2.2. Addendum B - CHECKLIST, QUESTIONNAIRE, AND PRICING

Contractor is required to submit a response for each numbered or lettered item of Addendum B, the response must be in the same format and sequence as in the RFP. The response must include description, schedules, when required, and any additional clarifying information, such as appendices, charts, diagrams, etc..

2.1.2.3. Addendum C – IMMIGRATION CLAUSE FOR CONTRACTS

2.1.2.4. Exhibit A – Architectural Plan

2.1.3. Signatures: The proposal must be signed by an officer of the proposing Contractor.

2.1.4. Exceptions and Deviations: Any exception to or deviations from these Terms & Conditions must be identified, in writing, on an attachment to the proposal submission. PPLD reserves the right to accept or reject, at its sole discretion, any exceptions or deviations by the proposer.

2.1.5. Integration with Contract: The winning proposal will be included and integrated into the final contract documents.

2.1.6. Proposal Submission: Proposals are to be submitted electronically or in sealed envelopes, identified with the proposal number and title with all attachments. See the Schedule of Events for due dates. Contractors must submit three (3) hard copies and (1) soft copy (i.e., flash drive, magnetic media, etc.) of the Proposal to:

Pikes Peak Library District
Attn: Kim Hoggatt
Finance Office
RFP # 490-24-02-PE
1175 Chapel Hills Drive,
Colorado Springs, CO, 80920

Additional copies may be requested by Pikes Peak Library District. Pikes Peak Library District is not liable for any cost incurred by prospective respondents prior to the issuance of contract(s).

The deadline (Contractor) is **September 6, 2024 no later than 2 p.m.** local time. Proposals delivered after that time will be received but will be rejected for being late.

A complete submission includes all required components, as stated in this document.

There will be no public bid opening for this RFP.

2.1.7. Duration of Proposal Offer: Price offers are irrevocable for 90 days following the proposal due date. Once a proposal is accepted, all prices, terms and conditions will remain unchanged throughout the contract period unless specifically agreed otherwise by both PPLD and the successful Contractor through documented change orders.

2.1.8. Withdrawal of Proposal: A Proposer may withdraw its own proposal at any time prior to the proposal due date and time as identified herein. After that date and time, no proposal may withdraw its proposal for any reason. All proposals shall be valid for a period not less than 90 calendar days after the proposal due date.

2.1.9. Information to Contractors:

2.1.9.1. No proposal shall be accepted from, and no contract will be awarded to any person, Contractor or corporation that is deemed irresponsible or unreliable by PPLD. If requested, Contractors will submit satisfactory evidence that they have a practical knowledge of the service bid upon and that they have the necessary financial resources to provide the proposed service called for as described in this Request for Proposal.

2.1.9.2. PPLD reserves the right to investigate the Contractor’s financial stability. This may include reviewing financial statements, checking bank reference, and interviewing past contractors, employees, and creditors. Unfavorable responses to these investigations are grounds for rejection of the proposal.

2.1.10. Confidentiality: All materials submitted in response to this RFP become the property of PPLD, upon delivery.

Proposals are public information. If a contractor submits proprietary information, the contractor will label each proprietary page as “CONFIDENTIAL” and submit it in a separate package so PPLD will not release any information marked as Confidential.

2.1.11. Subcontracting: The Contractor must be responsible for the performance of all of its sub-contractors, and consultants. The use of specific subcontractors and consultants is subject to the approval of PPLD. The Contractor is responsible for ensuring that all sub-contractors and consultants comply with all the terms of the Contractor’s contract with PPLD.

If the Contractor uses subsidiary companies, explain their role and how they will be involved in this project.

2.1.12. Insurance Requirements: The successful proposer shall have at the minimum, the following coverage: commercial general liability, automobile liability, excess liability, and worker’s compensation liability. The Contractor shall submit in their proposals, ACORD certificates and/or other proof of the following insurances:

2.1.12.1.	General Liability	\$1,000,000
2.1.12.2.	Automobile Liability	\$1,000,000
2.1.12.3.	Excess (umbrella) Liability	\$1,000,000
2.1.12.4.	Per Truck	\$100,000
2.1.12.5.	Per Occurrence	\$1,000,000
2.1.12.6.	Worker’s Compensation liability that meets statutory requirements.	

2.1.13. Indemnification: The proposer agrees to, and shall, defend, release, and indemnify, and save and hold harmless PPLD, its officer, agents, and employees from and against any and all damages to property or injuries to or death of any person or persons, including property and officers, employees, and agents of PPLD, and further agrees to, and shall, defend, indemnify, and save and hold harmless PPLD, its officers, agents, and employees, from and against any and all claims, costs, demands, liabilities, suits, actions, causes of action, and other legal or equitable proceedings of any kind or nature whatsoever, of or by anyone whomsoever, including, but not limited to claims arising out of and/or predicated upon negligence, breach of contract, tort, or strict liability, in any way resulting from, connected with, or arising out of the Contractor’s operations or performance in connection herewith, including operations or performance of sub-contractors and suppliers and acts or omissions of officers, employees, or agents of the Contractor or its sub-contractors or suppliers.

2.1.14. Schedule: By submitting a proposal, the proposer guarantees that it will be able to comply with the agreed upon, overall schedule.

2.1.14.1. Anticipated sitework for this proposal to be completed in October-November 2024.

2.1.15. Continuity: By submitting a proposal, the proposer will make its best efforts to ensure that the key team member(s) remain assigned to the PPLD’s project for the duration of contract. Any changes to the staffing of this engagement must be discussed up front with PPLD personnel.

2.2. Selection

2.2.1. Right of Acceptance and Rejection: PPLD reserves the right to accept or reject any or all proposals and to waive any formalities, informalities, and deviations, which, in its opinion, best serve the interests of PPLD. PPLD is not bound to accept the lowest price proposal.

2.2.2. Selection: It is the intent of PPLD to select only responsible and responsive Contractors. Bidder’s proposal should include the most favorable terms and conditions.

2.2.3. Negotiation: PPLD reserves the right to negotiate terms and conditions of the contract with the winning Contractor.

2.2.4. Basis of Award: An evaluation team will judge the merit of proposals received in accordance with the general criteria defined within this RFP. The recommendations of this team will be forwarded to the Board of Trustees for approval and execution. The following criteria will be taken into consideration when making evaluations of proposals. This list is not intended to be exhaustive nor ranking in order of importance:

2.2.4.1. Completeness of Proposal

2.2.4.2. References

2.2.4.3. Pricing

2.2.4.4. Quality of Services

2.2.4.5. Contractor Qualifications and History

2.2.4.6. Any other items deemed in the best interests of PPLD

2.2.4.7. Bid scoring below

Bid Completeness	20%
Company/ Personnel Experience	20%
References	20%
Pricing	40%
Total	100%

2.3. Contract Formation

2.3.1. Agreement in Writing: Following selection of a proposal, the Contractor will be required to enter into a written contract with PPLD. **American Institute of Architects (AIA) Contract A110 Owner and Contractor is preferred.**

The winning Bidder’s RFP proposal will be included and integrated into the final contract documents. It is in the Bidder’s best interest to ensure the proposal is accurate to allow for the integration with minimal changes.

If you have a formal or standard contract other than the AIA contract, please attach a copy to your Proposal. A Service Agreement is not a condition of accepting an RFP.

If, in PPLD’s sole discretion, the selected proposer has not executed the contract documents within a reasonable time after selection, PPLD reserves the right to rescind the award and select another Contractor.

2.3.2. Amendments to Contract: Parties hereto reserve the right to make amendments or modifications to the contract by written amendment signed by both parties.

2.3.3. Termination of Contract for Cause: If, through any cause, the successful Bidder shall fail to fulfill in a timely and proper manner its obligations or if the successful Bidder shall violate any of the covenants,

agreements, or stipulations of the Contract, PPLD shall thereupon have the right to terminate the Contract by giving written notice to the successful Bidder of such termination and specifying the effective date of termination. In that event, all finished or unfinished services, reports or other materials prepared by the successful Bidder shall, at the option of PPLD, become its property, and the successful Bidder shall be entitled to receive just, equitable compensation for any satisfactory work completed, prepared documents or materials as furnished. Notwithstanding the above, the successful Bidder shall not be relieved of liability to PPLD for damage sustained by PPLD by virtue of breach of the Contract by the successful Bidder and PPLD may withhold any payments to the successful Contractor for the purpose of set off until such time as the exact amount of damages due PPLD from the successful Bidder is determined.

2.3.4. Termination of Contract for Convenience: PPLD may terminate the Contract at any time by giving written notice to the successful Contractor of such termination and specifying the effective date thereof, at least thirty (30) working days before the effective date of such termination. In that event, all finished or unfinished services, reports, material(s) prepared or furnished by the successful Bidder under the Contract shall, at the option of PPLD, become its property.

2.3.5. Cancellation: Either party may cancel the Contract in the event that a petition, either voluntary or involuntary, is filed to declare the other party bankrupt or insolvent or in the event that such party makes an assignment for the benefit of creditors.

3. Scope of Work

3.1. Service Specifications:

3.1.1. The specifications of this project shall be in accordance with the design and construction documents developed (Exhibit A) by Design Edge.

3.1.1.1. All walls are to be textured to match existing surrounds and painted Sherwin Williams "Panda White (SW 6147)" unless otherwise specified in writing. All division 9 items are to match plan specifications. Any deviations are to be approved by PPLD Project Manager.

3.1.1.2. All walls are to match the height specified on plans.

3.1.1.3. Any lighting change or new lighting installation shall be of LED. Other formats will not be accepted.

3.1.1.4. New walls shall not be built over existing carpet. Existing carpet must be stripped back to expose subfloor.

3.1.1.5. All hardware shall consist of brushed nickel finish. New door locking hardware shall accept only Schlage small format cores, to be keyed by PPLD.

3.1.1.6. All cove base shall match existing area.

3.1.2. Contractor shall take into consideration all dust, trash, noise, patron traffic areas, and site safety by means of tarp, rope off, plastic barrier, caution tape, cones or other means to prevent unnecessary liability to life, limb and eyesight.

3.2. Awarded contractor shall coordinate schedules with PPLD Head of Security and Facilities Project Manager.

3.3. All work shall be done to the highest of industry quality and be in accordance with Pikes Peak Regional Building Department.

3.3.1. Permitting must be completed prior to the start of any work or phase of this project. Inspections are to be completed prior to the start of any subsequent work. Documentation will be provided to PPLD Project Manager.

3.3.2. Change Orders are to be submitted to the PPLD Project Manager in writing for approval or denial prior to any changes.

3.4. Testing and cleaning of all materials specified in the completion of this work at no cost to the contractor. Any and all defaults found shall be the responsibility of the awarded contractor for correction.

3.5. The successful proposer shall be required to furnish all permits, equipment, tools, machinery, transportation, and other implements necessary to fulfill the provisions of this Contract. This includes but is not limited to all procurement and contracting requirement specifications included within.

- 3.6. No non-employees, employee's significant others, employee's children, or employee's pet(s) shall be permitted on the jobsite, by the Contractor or any others, during the performance of this contract.

4. Contractor Qualification and Information

The following information and documents must be included in submitted proposal:

- 4.1. Provide the name of the proposing Contractors, address, telephone and primary contact person.
- 4.2. State the size of the Contractor and provide a history summary.
- 4.3. Your organization's qualifications and experience. If you have experience with PPLD Libraries, describe your current or past relationship. Describe any similar projects performed by your organization.
- 4.4. Provide references from minimum three (3) recent similar projects including name, telephone number and a brief statement describing their association with your Contractor (e.g., other library, educational or public sector clients). References from Colorado are preferred.
- 4.5. Provide resumes of the certified team members that will be assigned to this project and include their specific responsibilities.
- 4.6. Any other information you feel should be considered in the selection process.

5. Pricing

- 5.1. Minimum Services: PPLD is looking for the best-value proposal that meets the needs of the district to include all cost aspects of service. Please include:
 - 5.1.1. Lump Sum and unit costs, to include but not limited to travel, accommodations, reimbursables, and plan completion.

ADDENDUM A - PROPOSAL COVER SHEET

I. GENERAL INFORMATION

1. CONTRACTOR NAME _____

2. ADDRESS _____

3. PHONE _____

5. E-MAIL AND WEBSITE _____

6. CONTACT _____

II. STATEMENT OF MINIMUM QUALIFICATION

I, _____ (printed name) hereby declare

that I am the _____ (title) of

_____ (name of Contractor) submitting this profile and declaration, and that I am duly authorized to sign this profile and declaration on behalf of the above named Contractor. All information set forth in this profile and declaration and all attachments hereto are, to the best of my knowledge, true, accurate, and complete as of the submission date.

The signer further certifies that (please initial):

- a. _____ The Contractor has carefully examined all instructions, requirements, specifications, and terms and conditions of the RFP for which this proposal is submitted. The Contractor understands all instructions, requirements, specifications, and terms and conditions of this RFP, and hereby offers and proposes to furnish the goods and services described herein at the prices, fees, and/or rates identified in this proposal, in accordance with the instructions, requirements, specifications, and terms and conditions of this RFP.
- b. _____ This proposal is a valid and irrevocable offer that will not be revoked and shall remain open for the PPLD's acceptance for a period of ninety (90) calendar days from the proposal due date.
- c. _____ The Contractor is in full compliance with all applicable federal, state, and local laws, rules, regulations, and ordinances governing business practices.
- d. _____ All statements, information, and representations prepared and submitted in this proposal are current, complete, true, and accurate.

- e. _____ Submission of this proposal indicates the signer’s acceptance of the evaluation technique and that some subjective judgments may be made by PPLD as part of the evaluation.
- f. _____ The Contractor has to provide proof of all required insurance coverage.
- g. _____ A list of exceptions and deviations (if any) is attached.
- h. _____ There have been no claims, litigation, or other issues filed or pending against our Contractor in the past 5 years except as listed below.

- i. _____ The Contractor is aware of Colorado’s Immigration / illegal alien laws pertaining to public contracts. Addendum C (Colorado Statutes 8-17.5 – 102) is signed and attached.

Authorized Signature

Date

ADDENDUM B - CHECKLIST, QUESTIONNAIRE, AND PRICING FORM

QUALIFICATIONS (Fill in or attach additional pages as needed):

A. SIZE and AGE of Contractor _____

B. CONTRACTOR'S EXPERIENCE:

1. Qualifications:

1.1. List location, owner, and completion date of at least three (3) projects with similar scope.

Company Name: _____ Contact Name: _____
Address: _____ Phone: _____
Scope of service performed: _____

Company Name: _____ Contact Name: _____
Address: _____ Phone: _____
Scope of service performed: _____

Company Name: _____ Contact Name: _____
Address: _____ Phone: _____
Scope of service performed: _____

2. Pricing

Provide **lump sum** and **hourly rate** information as requested. All costs stated shall be "complete" costs to include travel, accommodations, reimbursables and plan completion, OH&P, applicable taxes, permits as required.

Project Cost: _____

Hourly Rates: Provide list with proposal package.

3. Projected start date and duration of installation:

Indicate your projected scheduling of this work with milestones.

Anticipated Start Date: _____ **Anticipated Completion Date:** _____

4. Indicate Preferred payment schedule:

Submittal of this bid form implies that the Contractor can adequately staff and schedule all work at the required time and has the resources available to procure all required materials at the required time. All costs indicated shall be maintained by the Contractor for not less than 30 days from the submittal date and shall be maintained throughout the duration of the contract after award.

ADDENDUM C - IMMIGRATION CLAUSE FOR CONTRACTS

Pursuant to Colorado Revised Statutes Section 8-17.5-102, the Pikes Peak Library District (“PPLD”) shall not enter into or renew a public contract for services with a contractor who knowingly employs or contracts with an illegal alien to perform work under the contract or who knowingly contracts with a sub-contractor who knowingly employs or contracts with an illegal alien to perform work under the contract.

Accordingly, Contractor agrees that it shall not:
Knowingly employ or contract with an illegal alien to perform work under this Agreement; or
Enter into a contract with a sub-contractor for work under this Agreement that fails to certify to the Contractor that the sub-contractor shall not knowingly employ or contract with an illegal alien to perform work under this Agreement.

Further, Contractor agrees that it shall comply with the following:
Contractor has the employment eligibility for all employees who are newly hired for employment to perform work under this Agreement through participation in either the e-verify program administered jointly by the U.S. Department of Homeland Security and the Social Security Administration (the “E-Verify Program”) or the department program administered by the Colorado Department of Labor and Employment (the “Department Program”).

Contractor shall not use the E-Verify Program or the Department Program procedures to undertake pre-employment screening of job applicants while the services under this Agreement are being performed.
Should Contractor obtain actual knowledge that a sub-contractor performing work under this Agreement knowingly employs or contracts with an illegal alien, the Contractor shall:
Notify the sub-contractor and PPLD within three days that Contractor has actual knowledge that the subcontractor is employing or contracting with an illegal alien; and

Terminate the sub-contract with the sub-contractor if, within three days of receiving the notice, the subcontractor does not stop employing or contracting with the illegal alien; except that Contractor shall not terminate the contract with the subcontractor if, during such three days, the sub-contractor provides information to establish that the sub-contractor has not knowingly employed or contracted with an illegal alien.

Contractor shall comply with any reasonable request by the Colorado Department of Labor and Employment (the “Department”) made in the course of an investigation that the Department may undertake pursuant to its authority under Colorado Revised Statutes Section 8-17.5-102(5).

Authorized Signature

Date

EXHIBIT A- DESIGN EDGE CONSTRUCTION DOCUMENTS

PENROSE LIBRARY OFFICE INTERIOR REMODEL PIKES PEAK LIBRARY DISTRICT

COLORADO SPRINGS, COLORADO 80903

DESIGN EDGE

711 N. CASCADE AVE. SUITE 10
COLORADO SPRINGS, CO 80903
TELEPHONE: (719) 667-1972

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ACTION.

GENERAL NOTES

ALL WORK WILL BE PERFORMED IN STRICT ACCORDANCE WITH ALL LOCAL LAWS, RULES AND REGULATIONS OF GOVERNMENT AUTHORITIES HAVING CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL BUILDING

FIRE ALARM AND FIRE SPRINKLER SYSTEM SHALL BE MODIFIED ACCORDING TO ALL LOCAL CODES AND THE NFPA. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO, AND OBTAIN NECESSARY PERMITS FROM THE LOCAL FIRE AND BUILDING DEPARTMENT. FIRE ALARM MODIFICATIONS REQUIRED ARE SHOWN ON THE PLANS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE FIRE SPRINKLER DESIGN AND PERMITS FOR THIS PROJECT

PRIOR TO BIDDING CONTRACTOR SHALL VISIT JOB SITE TO REVIEW SCOPE OF WORK AND EXISTING JOB CONDITIONS, THIS INCLUDES ALL DEMOLITION WORK, DIMENSIONS, PLUMBING AND ELECTRICAL WORK THAT ARE PART OF THIS CONTRACT.

CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT OF ANY CONFLICTS OR OMISSIONS, PRIOR TO THE PERFORMANCE OF THE WORK IN QUESTION.

CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER FOR A PRELIMINARY WALK-THROUGH AFTER ELECTRICAL AND DATA BOXES HAVE BEEN SET BUT NOT OWNER SHALL HAVE THE OPPORTUNITY TO MAKE MINOR REVISIONS TO OUTLET LOCATIONS BEFORE FINISHING OF ROUGH IN WORK.

WHERE ELECTRICAL WORK IS SPECIFIED IN CONJUNCTION WITH CABINET WORK, FIXTURES ARE TO BE PROVIDED BY ELECTRICAL CONTRACTOR. CUTOUTS ONLY FOR SWITCHES, OUTLETS ETC. ARE THE RESPONSIBILITY OF THE CABINET CONTRACTOR AND SHOULD BE COORDINATED WITH THE ELECTRICAL

CONTRACTOR.

7. ALL DIMENSIONS ARE FROM ONE SIDE OF FINISHED WALL UNLESS OTHERWISE NOTED.

8. CONTRACTOR SHALL PROVIDE ADEQUATE BLOCKING IN WALLS TO RECEIVE ALL ATTACHED EQUIPMENT, PLUMBING FIXTURES, MILLWORK, CASEWORK, ETC. NOTE: ALL FRAMING OR CONCEALED BLOCKING SHALL BE METAL OR FIRE RETARDANT TREATED WOOD.

9. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN ALL PARTITION LOCATIONS. ALL DOOR AND OPENING LOCATIONS SHALL BE INDICATED ON PLAN. IN CASE OF CONFLICT, NOTIFY THE ARCHITECT. ALL DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL FINISHES INCLUDING CARPET, PAD, TILE, SHEET VINYL, WAINSCOT, ETC.

10. ITEMS INDICATED IN THIS SET OF DOCUMENTS BY OWNER ARE NOT A PART OF THIS CONTRACT, AND ARE TO BE FURNISHED AND INSTALLED BY OWNER UNLESS OTHERWISE NOTED.

11. ITEMS INDICATED IN THIS SET OF DOCUMENTS ARE NOT TO BE ALTERED WITHOUT WRITTEN CONSENT FROM THE ARCHITECT OR ENGINEER. IF ALTERATIONS MADE BY THE OWNER OR CONTRACTOR, THE ARCHITECT AND/OR ENGINEER ASSUME NO RESPONSIBILITY FOR SUCH CHANGES.

12. ALL WORK SHALL HAVE FINAL INSPECTION BY ARCHITECT AND OWNER. ARCHITECT WILL PREPARE FINAL PUNCH LIST OF DEFICIENT ITEMS THAT MUST BE CORRECTED BEFORE FINAL PAYMENT TO THE CONTRACTOR

CODE STATEMENT

GOVERNING CODES

2023 PIKES PEAK REGIONAL BUILDING CODE (PPRBC)
2021 INTERNATIONAL BUILDING CODE (IBC)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2021 INTERNATIONAL MECHANICAL CODE (IMC)
2021 INTERNATIONAL FUEL GAS CODE (IFGC)
2018 INTERNATIONAL PLUMBING CODE (IPC)
2020 NATIONAL ELECTRICAL CODE (NEC)
2017 ICC/ANSI A117.1 ACCESSIBILITY STANDARD
THE 2021 INTERNATIONAL FIRE CODE AND AMENDMENTS AS ADOPTED BY THE COLORADO SPRINGS FIRE DEPARTMENT.

PROJECT DESCRIPTION

THE PROJECT IS THE REMODEL OF MULTIPLE AREAS OF THE LIBRARY.

CODE DATA

OCCUPANCY CLASSIFICATION	A-3 LIBRARY, B BUSINESS (NON-SEPARATED)
CONSTRUCTION TYPE	III-A
INTERIOR NON-BEARING WALL	NON-RATED
FIRE SPRINKLERS	SPRINKLERED
OVERALL BUILDING AREA:	67,735 GSF
BUILDING HEIGHT:	2 + Basement

PLUMBING FIXTURE REQUIREMENTS

EXISTING PLUMBING FIXTURE COUNT IS UNAFFECTED BY THE MODIFICATIONS

DRAWING INDEX

COVER SHEET

G1.1 PROJECT INFORMATION SHEET
G1.2 CODE STUDY
G2.1 PROJECT SPECIFICATIONS
G2.2 PROJECT SPECIFICATIONS

ARCHITECTURAL

A1.1 FIRST FLOOR PLAN
A1.2 BASEMENT LEVEL FLOOR PLAN, DETAILS
A2.1 DETAILS, INTERIOR ELEVATIONS

STRUCTURAL

S0.1 GENERAL NOTES, DETAILS AND SPECIAL INSPECTIONS
S1.2 PARTIAL LOWER LEVEL REFLECTED CEILING PLAN

MECHANICAL

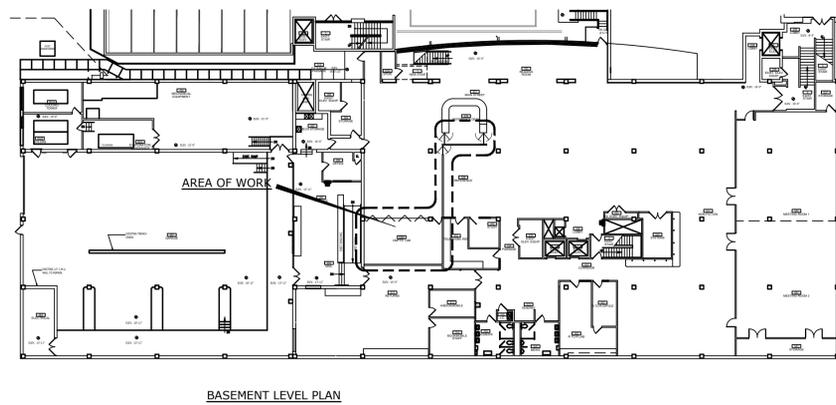
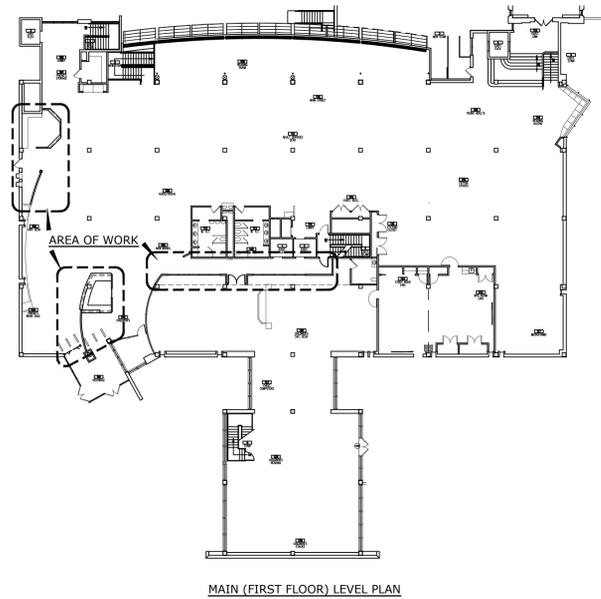
M001 GENERAL INFORMATION AND SCHEDULES
M110 MECHANICAL LOWER LEVEL PLAN
M111 MECHANICAL PLAN AND EQUIPMENT SCHEDULE MAIN FLOOR

ELECTRICAL

E001 GENERAL INFORMATION AND SCHEDULES
E110 ELECTRICAL PLAN LOWER LEVEL
E111 ELECTRICAL PLAN MAIN FLOOR

KEY PLAN

SCALE = NOT TO SCALE



PARTICIPANTS

BUILDING OWNER
PIKES PEAK LIBRARY DISTRICT
CONTACT: TRAVIS KEETON
TEL: 719.492.8562

ARCHITECT
DESIGN EDGE, P.C.
482 S BROADWAY, SUITE 100
DENVER, CO 80209
CONTACT: SWAGATA GUHA, AIA
TEL: 719.667.1972 X 114

MECHANICAL ELECTRICAL ENGINEER
CHIARTANO ENGINEERING GROUP LLC
10186 MT. LINCOLN DR.
PEYTON, CO 80831
CONTACT: MICHAEL CHIARTANO, PE
TEL: 719-257-2091
CELL: 719-330-6823

STRUCTURAL ENGINEER
HCDA ENGINEERING
9 S WEBER ST.
COLORADO SPRINGS, CO 80903
CONTACT: JEFF KOBRIGER, PE
TEL: 719-633-7784

PROJECT INFO

Penrose Library Remodel

20 N CASCADE AVE,
COLORADO SPRINGS, CO 80903

PROJECT NO: 24108
PRINT DATE: 6/7/2024
PROJECT MGR: SGT
PREPARED BY: SGT

SEAL



VICINITY MAP (NOT TO SCALE)



ISSUE / REVISION

DATE:	DESCRIPTION:
06-06-2024	ISSUED FOR PLAN REVIEW

SHEET TITLE

PROJECT DATA

SHEET NUMBER

G1.1

OCCUPANT LOAD AND EXIT REQUIREMENTS

THE FOLLOWING INFORMATION IS BASED ON PRIOR BUILDING MODIFICATION PERMIT DRAWINGS:

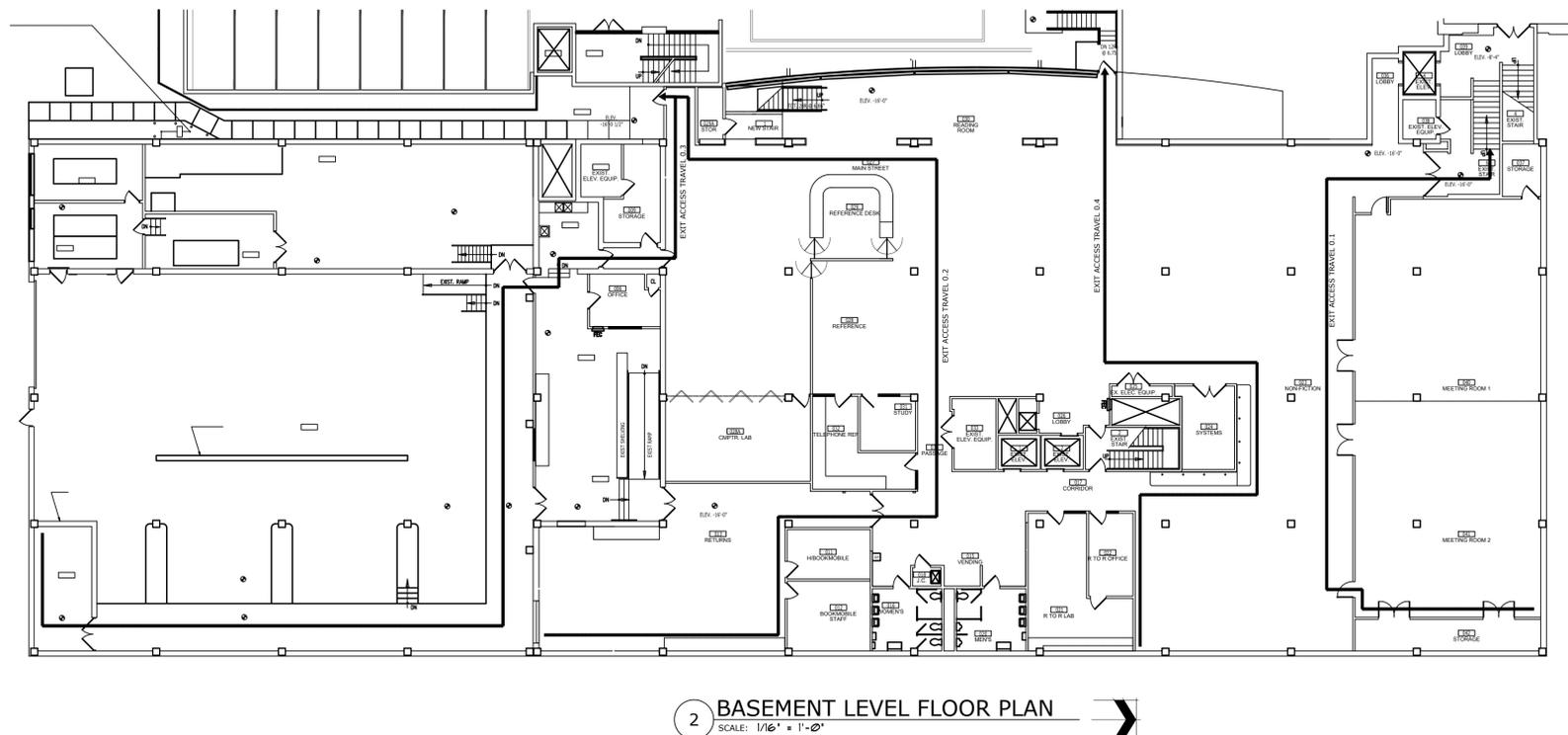
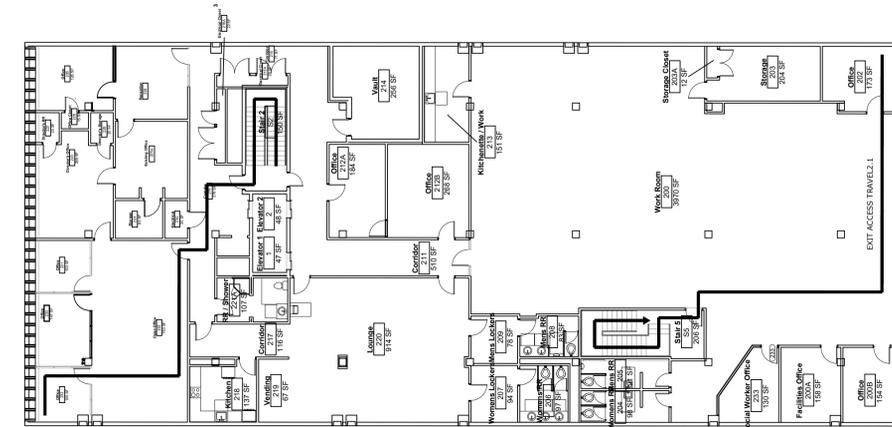
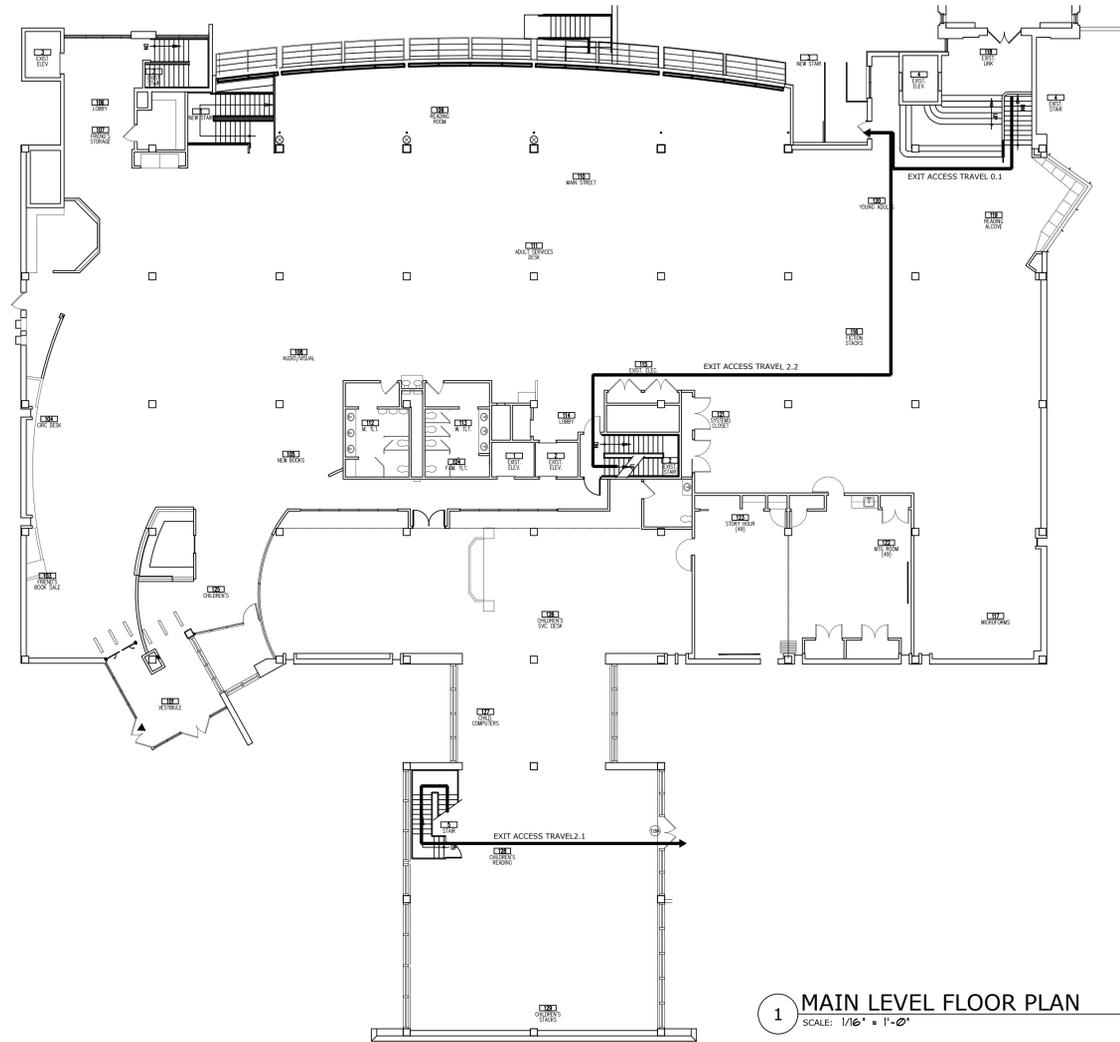
LEVEL 0 (BASEMENT):
 NUMBER OF OCCUPANTS: 475

LEVEL 1 (MAIN):
 NUMBER OF OCCUPANTS: 433

LEVEL 2:
 NUMBER OF OCCUPANTS: 174

TOTAL NUMBER OF OCCUPANTS: 1,082

EGRESS SCHEDULE	
PATH NO:	EXIT ACCESS TRAVEL DISTANCE
EXIST ACCESS TRAVEL 0.1	211'-2"
EXIST ACCESS TRAVEL 0.2	229'-5"
EXIST ACCESS TRAVEL 0.3	239'-2"
EXIST ACCESS TRAVEL 0.4	159'-0"
EXIST ACCESS TRAVEL 2.1	192'-3"
EXIST ACCESS TRAVEL 2.2	237'-0"



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 ACTION.

GENERAL SPECIFICATIONS

01 00 00 GENERAL REQUIREMENTS (CONT.)

Actual equipment locations.
 Duct size and routing.
 Locations of concealed internal utilities.
 Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
 Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
 Mark important additional information that was either shown schematically or omitted from original Drawings.

07 92 00 JOINT SEALANTS

Furnish a written warranty that parts sealed shall remain air and dust free, and weatherproofed and that defective work leakage, hardening, cracking, crumbling, melting, shrinkage, running or staining of adjacent work shall be repaired at no cost to the owner for a period of five (5) years from date of acceptance of the work.

Sealants shall be as follows:

- Type A sealant: specification TT-S-230, Type 2, non-sag, chemically curing, 25-35 shore a hardness, single component, synthetic-rubber, solvent release type, acrylic, polysulfide or polyurethane base sealant. Vulkem 116, or equal.
- Type B sealant: federal specification TT-S-230, Type 1, class A, 35-40 shore a hardness, a single component, polyurethane base, pourable (or adaptable for gun use) joint sealant. Vulkem 45, or equal.
- Type C sealant: federal specification, TT-S -1657, Type 1 or 2, Butyl-base sealant.
- Type D sealant: Dow 762, or equal.
- Acoustic sealant: Federal specification TT-S -1657 Butyl sealer, pre-extruded.
- Non-hardening, non-skinning mastic of sufficient dimension to maintain constant contact with adjoining surfaces (not less than 3/8 inch diameter or 1/4 by 1/2 inch if in flat form), packaged in rolls.

Primer: non-staining and as recommended by the sealant manufacturer.
 Joint packing: closed cell expanded polyethylene cord or square rod. Do not use asphalt or bitumen-impregnated fiber with sealants.
 Bond breaker: PVC foam tape, or equivalent.

Execution

Seal and caulk joints throughout the work where shown on the drawings and elsewhere as required to provide a positive barrier against passage of moisture and air. Apply sealant in accordance with manufacturer's recommendations.

Joint dimension: in joints up to 1/4 inch in width the depth of the sealant or caulking shall be the same as the joint width.

In open joints over 1/4 inch wide, the depth of the sealant or caulking shall be approximately one-half the width of the joint, but in no case less than 1/4 inch deep.

When open joints exceeding the depth requirements, insert backup material to the necessary depth stated above. If not, place bond breaker tape in bottom of joint.

When perimeter joints around frames that are to be sealed or caulked do not have built in stops, insert backup material to provide a joint with a minimum depth of 1/8 inch and a maximum depth of 1/2 inch. Force sealant into joint by tooling to insure full contact with side walls and backing. Protect adjoining surfaces. Finished bead shall be smooth, even, and free from all wrinkling, air pockets, and foreign matter, slightly concave in shape.

Color for each sealant installation shall be selected from standard colors to match adjacent surface. Remove all excess material adjacent to the joint by mechanical means and/or with solvent. Thoroughly and completely mask joint where the appearance of sealant on adjacent surfaces would be objectionable. Sealant application schedule:

- Type A: in general, at exterior or perimeters of openings in exterior walls such as metal to metal, metal to concrete/masonry/stucco.
- Type B: in general, for use on areas subject to foot or vehicle traffic.
- Type C: in general, for interior wall penetrations for piping or conduit which are to be covered by escutchcon or other trim or plate.
- Type D: for glass-to-glass joints where "butt glazing" is indicated, or glass to metal.

Acoustic sealant: in general, for sound retardant sealant at sound rated partitions or partitions with sound retardant material therein. Seal the work at perimeters, control and expansion of joints, openings and penetrations with a continuous bead of acoustic sealant, including a bead at both faces of partitions. Comply with manufacturer's recommendations for location of beads. Close off sound flanking paths around or through the work.

08 11 16 INTERIOR ALUMINIUM FRAMING

PART 1 GENERAL
 1.01 SECTION INCLUDES
 A. Interior Aluminum Framing.
 1.02 REFERENCES
 A. AAMA 607.1 - Voluntary Guide Specification and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum.
 B. ASTM-B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
 C. ASTM-B221 - Standard Specification for Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

1.03 SUBMITTALS
 A. Action Submittals/ Informational Submittals.
 1. Product Data.
 a. Submit manufacturer's product data sheets, catalog pages illustrating the products, description of materials, components, fabrication, finishes, installation instructions, and applicable test reports.
 2. Shop Drawings.
 a. Submit manufacturer's shop drawings, including elevations, sections, and details indicating dimensions, tolerances, materials, fabrication, doors, panels, framing, hardware schedule, and finish.
 3. Samples. Provide two samples of each type of framing member required, not less than 10" long in Clear 204 R1 finish.
 4. Testing and Evaluation Reports.
 a. Submit testing reports and evaluations provided by manufacturer conducted by and accredited independent testing agency certifying doors and frames comply with specified performance requirements listed in Section 2.04.

C. Closeout Submittals.
 1. Operation and Maintenance Manual.
 a. Submit manufacturer's maintenance and cleaning instructions for doors and frames, including maintenance and operating instructions for hardware.
 2. Warranty Documentation.
 a. Submit manufacturer's standard warranty.

1.04 QUALITY ASSURANCE
 A. Manufacturer's Qualifications.
 1. Evidence of a documented complaint resolution quality management system.

1.05 DELIVERY, STORAGE, AND HANDLING
 A. Delivery.
 1. Deliver materials to site in manufacturer's original, unopened, containers and packaging.
 2. Labels clearly identifying elevations.
 3. Inspect frames upon delivery for damage.
 a. Repair minor damage to polyester finish by using air drying spray enamel of matching color.
 b. Replace frames that cannot be satisfactorily repaired.

B. Storage.
 1. Store materials in a clean, dry area, indoors in accordance with manufacturer's instructions.
 C. Handling.
 1. Protect materials and finish from damage during handling and installation.

1.06 WARRANTY
 1. Manufacturer's standard warranty for interior aluminum framing products to be manufactured free from defective material and faulty workmanship. This includes manufacturer's standard warranty for clear anodic finishes.
 D. Standard Period.
 1. Five years starting on date of shipment.

PART 2 PRODUCTS
 2.01 INTERIOR ALUMINIUM FRAMING
 A. Basis of Design Manufacturer.
 1. Special-Lite, Inc.
 a. PO Box 6, Decatur, Michigan 49045.
 b. Toll Free (800) 821-6531, Phone (269) 423-7068, Fax (800) 423-7610.
 c. Web Site www.special-lite.com.

2.02 DESCRIPTION
 A. Model: LifeSpace Interior Aluminum Framing.
 B. Perimeter Frame Members.
 1. Rectilinear design with 1-3/4" face.
 2. Overall depth of 2-3/8".
 C. Frame Member to Member Connections.
 1. Secure joints with fasteners.
 2. Provide hairline butt joint appearance.
 3. No exposed clips for member to member connections.
 D. Glazing.
 1. Thickness: 1/4".
 2. Able to accept multiple glazing thicknesses.
 3. Vinyl glazing bulb grey, white, or black to match extrusions.
 4. Glazing system designed to allow replacement of glass.
 5. Glazing vinyl internal to extrusion to provide clean sight line.
 6. Glass butt joints with polycarbonate glazing channel with integral glazing tape that provides a minimum 120 oz/inch peel strength.
 E. Anchors: Anchors appropriate for wall conditions to anchor framing to wall materials.

2.02 MATERIALS
 A. Aluminum Members.
 1. Aluminum extrusions made 6061 or 6063 aluminum alloys.
 2. Sheet and plate to conform to ASTM-B209.
 3. Alloy and temper to be selected by manufacturer for strength, corrosion resistance, and application of required finish, and control of color.
 B. Fasteners.
 1. All exposed fasteners will have a finish to match material being fastened.
 2. 410 stainless steel or other non-corrosive metal.
 3. Must be compatible with items being fastened.

2.03 FABRICATION
 A. Factory Assembly.
 1. All cut edges to be free of burrs.
 2. Welding of frames is not acceptable.
 3. Maintain continuity of line and accurate relation of planes and angles.
 B. Shop Fabrication
 1. All shop fabrication to be completed in accordance with manufactures process work instructions.
 2. Quality control to be performed before leaving each department.

2.04 FINISHES
 A. Frame: Aluminum Anodizing: Class II Clear Anodizing, minimum 0.4 to 0.7 mils thick.

PART 3 EXECUTION
 3.01 EXAMINATION
 A. Examine areas to receive doors.
 B. Notify architect of conditions that would adversely affect installation or subsequent use.
 C. Do not proceed with installation until unsatisfactory conditions are corrected.

3.02 PREPARATION
 A. Ensure openings to receive frames are plumb, level, square, and in tolerance.
 B. Anchor frames securely in place.
 C. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by architect.
 D. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by architect.
 E. Remove and replace damaged components that cannot be successfully repaired as determined by architect.

3.03 CLEANING
 A. Do not use harsh cleaning materials or methods that would damage finish.
 B. Clean once a year or as needed with a non-acidic or alkaline cleaning product.

08 11 13 HOLLOW METAL FRAMES

1.1 GENERAL
 A. Section includes:
 1. Hollow steel frames.

1.2 REFERENCES
 A. American National Standards Institute (ANSI) Steel Door Institute (SDI) (www.steeldoor.org)
 1. A250.3 - Test procedure and acceptance criteria for factory applied finished painted steel for steel doors and frames.
 2. A250.4 - Test Procedure And Acceptance Criteria For Physical Endurance For Steel Doors, Frames, Frame Anchors And Hardware Reinforcing.
 3. A250.8 - Recommended specifications for standard steel doors and frames.
 4. A250.10 - Test procedure and acceptance criteria for prime painted steel surfaces for steel doors and frames.
 5. A250.11 - Recommended erection instructions for steel frames.
 B. ASTM INTERNATIONAL (ASTM) (www.astm.org)
 1. A653/A653M - Standard specification for steel sheet, zinc-coated (galvanized) or zinc-iron alloy coated (galvannealed) by the hot-dip process.
 2. A924 - Standard specification for general requirements for steel sheet, metallic-coated by the hot-dip process.
 3. A1008/A1008M - Standard specification for steel, sheet, cold-rolled, carbon, structural, high-strength low-alloy and high-strength low-alloy with improved formability.
 4. C518 - Standard test method for steady state thermal transmission properties by means of the heat flow meter apparatus.
 5. E413 - CLASSIFICATION FOR RATING SOUND INSULATION.
 C. National Fire Protection Association (NFPA) (www.nfpa.org) 80 - standard for fire doors and fire windows.
 D. Steel Door Institute (SDI) (www.steeldoor.org) 117 - Manufacturing Tolerances for Standard Steel Doors and Frames.
 E. Underwriters Laboratories (UL) (www.ul.com)
 1. 10B - Standard for Fire Tests of Door Assemblies.
 2. 10C - Standard for Positive Pressure Fire Tests of Door Assemblies.

1.3 SUBMITTALS
 A. Submittals for review:
 1. Shop drawings: show locations, elevations, dimensions, model designations, fire thermal acoustical ratings, preparation for hardware, and anchoring details.
 2. Product data: show elevations, dimensions, gages of metal, hardware reinforcing gages and locations, and anchor types.

1.4 QUALITY ASSURANCE
 A. FRAMES: ANS/SDI A250.8, Grade 1 - standard duty.

1.5 DELIVERY, STORAGE AND HANDLING
 A. Ship door frames with removable angle spreader; do not remove until frame is installed.
 B. Do not cover with non-vented coverings that create excessive humidity.
 C. Remove wet coverings immediately.

PART 2 PRODUCTS
 2.1 MANUFACTURERS
 A. Acceptable manufacturers:
 1. CFCO DOOR (WWW.CFCODOOR.COM)
 2. CURRIES (WWW.CURRIES.COM)
 3. STEELCRAFT (WWW.STEELCRAFT.COM)
 B. Substitutions: under provisions of division 01.

2.2 MATERIALS
 A. STEEL SHEET:
 1. ASTM A1008/1008M, cold rolled.

2.3 ACCESSORIES
 A. Primer: zinc rich type.

2.4 FABRICATION
 A. Fabricate frames in accordance with ANS/SDI A250.8.
 B. Frames:
 1. Fabricate from minimum 14 gauge sheets.
 2. Close corner joints tight with trim faces mitered and face welded, full profile welded, or continuously welded and ground smooth.
 3. Anchors:
 a. Provide one anchor at each jamb for each 30 inches of door height.
 b. Design anchors to provide positive fastenings to adjacent construction.
 c. Provide one door anchor welded to each jamb.
 C. Accurately form to required sizes and profiles.
 D. Grind and dress exposed welds to form smooth, flush surfaces.

E. Do not use metallic filler to conceal manufacturing defects.
 F. Fabricate with internal reinforcement for hardware specified in section 087100; weld in place.
 G. Glazing stops:
 1. Manufacturer's standard, screw on type with mitered corners.
 2. Form stops from minimum 20 gage steel, profile for field glazing.
 3. Locate screws within 1 inch of ends of stops and maximum 8 inches on center.
 4. Install glazing stops on secure side of frames.
 H. Design clearances:
 1. Between door and frame: maximum 1/8 inch.
 L. Manufacturing tolerances: in accordance with SDI-117.
 2.5 FINISHES
 A. Dress tool marks and surface imperfections to smooth surfaces.
 B. Clean and chemically treat steel surfaces.
 C. Touch up damaged metallic coatings.
 D. Apply manufacturer's standard rust inhibiting primer paint, air-dried or baked on, meeting requirements of ANS/SDI A250.10.

PART 3 EXECUTION
 3.1 INSTALLATION
 A. Install doors and frames in accordance with ANS/SDI A250.11.
 B. Set plumb and level.
 C. Secure to adjacent construction using fastener type best suited to application.
 D. Install glass as specified in section 088000.
 E. Install hardware in accordance with section 087100.

3.2 ADJUSTING
 A. Touch up minor scratches and abrasions in primer paint to match factory finish.

08 40 00 WOOD DOORS

Part 1 - General
 A. Quality standards: comply with architectural woodwork institute "Architectural woodwork quality standards".
 B. Submittals: in addition to product data, submit shop drawings indicating location, size, face material, and finish of each door required.
 C. Protection: protect the materials of this section during transit, storage, and handling to prevent deterioration, damage, soiling and warping.
 D. Replacements: in the event of damage, immediately make all repairs and replacements necessary, at no additional cost to the owner.

Part 2 - Products
 A. Flush wood doors: provide doors with same exposed surface material on both faces of each door, unless otherwise indicated.
 1. Interior solid core doors for transparent finish: as follows:
 • Faces: match existing, plain sliced (verify with owner).
 • AWI grade: premium.
 • Construction: PC-5 or PC-7 (particleboard core, 5- or 7-ply).
 • Edge construction: manufacturer's standard laminated edge construction for improved screw-holding capability and split resistance
 B. Fabricate wood doors complying with the following requirements:
 1. In sizes indicated for job-site fitting.
 2. Factory-premachine doors for hardware; comply with final hardware schedule, door frame shop drawings and hardware templates.
 3. Glazing in doors for applications indicated shall be bedded and back putted with wood stops. Trim glazed openings with solid wood moldings of profile indicated, removable one side.

Part 3 - Execution
 A. Installation: comply with manufacturer's instructions and of referenced AWI standard and as indicated.
 B. Install fire-rated doors in corresponding fire-rated frames in accordance with requirements of NFPA no. 80.
 C. Align and fit door in frames with uniform clearances and bevels. Machine doors for hardware. Seal cut surfaces after fitting and machining.

08 71 00 DOOR HARDWARE

1.1 General
 A. Submittals: contractor shall submit to the architect for review (2) typewritten copies of the schedule of hardware which he proposes to furnish. Hardware shall not be ordered for purchase until the schedule has been reviewed by the architect and returned to the contractor.
 1. Check door thicknesses, details of trim, clearance for hinges, strikes, closers, fastener requirements, and fire rating requirements before preparing schedule.
 2. Approval of the schedule shall not be construed as certifying that the schedule is complete.
 B. Quality assurance: while the hardware scheduled or specified is intended to cover all doors and other movable parts of the building and establish a type and standard of quality, it shall be the specific duty and responsibility of the finish hardware supplier to examine the drawings and specifications and furnish proper hardware for all openings, whether listed or not.
 C. No extra cost will be allowed because of changes or corrections necessary to facilitate the proper installation of any hardware. Contractor shall be responsible for the proper fabrication of all work or material to receive the hardware.
 D. All hardware shall comply with applicable life safety, fire, and building codes. No extra costs will be allowed for furnishing items required by authorities, irrespective of errors or omissions herein.

1.2 Products
 A. See hardware schedule
 1.3 Execution
 A. Hardware mounting locations: as recommended by the door and hardware institute, unless indicated otherwise.
 B. Install each hardware item to comply with manufacturer's instructions and recommendations.
 C. Set thresholds for exterior doors in full bed of butyl rubber or polyisobutylene sealant. Remove excess sealant and clean adjacent surfaces.

08 80 00 GLAZING

PART 1. General
 A. Submittals
 a. Product Data
 b. Glass Samples: for each type of glass product other than clear monolithic vision glass
 c. Glazing Schedule
 d. Shop Drawings
 B. Warranty
 a. Manufacturer agrees to replace glass units that deteriorate within specified warranty period. Deterioration is defined as defects developed from normal use that are not attributed to glass breakage or maintaining and cleaning glass contrary to manufacturer's written instructions. Warranty period of 10 years from date of Substantial Completion.

PART 2. Products
 A. Performance Requirements
 a. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category I.
 B. Glass Products, General
 a. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of [the SGCC] [the SGCC or another certification agency acceptable to authorities having jurisdiction] [or [manufacturer] Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
 b. Thickness: 3/8"
 c. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass. Where fully tempered float glass is indicated, provide fully tempered float glass.
 C. Glazing Sealants
 a. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
 b. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
 c. Color to be determined by architect from full range.
 D. Miscellaneous Glazing Materials
 a. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
 b. Setting Blocks, Spacers, and Edge Blocks: Neoprene or per glass manufacturer's recommendations.

PART 3. Execution
 1. Glazing, General
 a. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
 b. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
 c. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
 d. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
 e. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
 f. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
 g. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
 2. Cleaning and Protection
 a. Immediately after installation remove nonpermanent labels and clean surfaces.
 b. Protect glass from contact with contaminating substances resulting from construction operations.

PROJECT INFO

Penrose Library Remodel

20 N CASCADE AVE,
 COLORADO SPRINGS, CO 80903

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 PREPARED BY: SGT

SEAL



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DATE:	DESCRIPTION:
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SHEET TITLE

PROJECT SPECIFICATIONS

SHEET NUMBER

GENERAL SPECIFICATIONS

09 29 00 GYPSUM BOARD AND FINISHES

PART 1 - GENERAL
9.1 Gypsum Board
A. General
 1. Submittals
 a. Product Data
 b. Samples
B. Products
 1. Performance Requirements
 a. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E119 by an independent testing agency.
 b. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E90 and classified according to ASTM E413 by an independent testing agency.
 2. Gypsum Board, General
 a. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.
 3. Trim Accessories
 a. Interior Trim: ASTM C1047
 b. Exterior Trim: ASTM C1047
 4. Joint Treatment Materials
 a. General: Comply with ASTM C475/C475M.
Auxiliary Materials
 a. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.
 6. Texture Finishes
 a. Primer: As recommended by textured finish manufacturer
C. Execution
 1. Applying and Finishing Panels
 a. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
 b. Comply with ASTM C840.
 c. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2-inch (6.4- to 12.7-mm) wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
 d. For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
 e. Prefill open joints, rounded or beveled edges, and damaged surface areas.
 f. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
 2. Applying Texture Finishes
 a. Surface Preparation and Primer: Prepare and apply primer to gypsum panels and other surfaces receiving texture finishes. Apply primer to surfaces that are clean, dry, and smooth.
 b. Texture Finish Application: Mix and apply finish using powered spray equipment, to produce a uniform texture, free of starved spots or other evidence of thin application or of application patterns.
 3. Protection
 a. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
 b. Remove and replace panels that are wet, moisture damaged, and mold damaged.

09 99 00 Painting
A. General
 1. Submittals
 a. Product Data
 b. Samples: For each type of paint, color, and gloss
B. Products
 1. Manufacturers
 a. As Noted on Drawings, Sherwin Williams, Benjamin Moore or Approved Equal
 b. Products: Subject to compliance with requirements, provide product listed in the Finish Schedule for paint.
 2. Paint, General
 a. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
 b. Colors: Refer to Drawings
C. Execution
 1. Examination
 a. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers
 b. Proceed with coating application only after unsatisfactory conditions have been corrected.
 2. Preparation
 a. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.
 b. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any
 3. Application
 a. Apply paints according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
 b. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

09 60 00 RESILIENT BASE

A. General
 1. Submittals
 a. Product Data
 b. Samples
B. Products
 1. Rubber Base
 a. Manufacturer: Refer to Drawings
 b. Color: Refer to Drawings
 c. Height: Refer to Drawings
C. Execution
 1. Preparation
 a. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products
 b. Concrete Substrates for Resilient Stair Accessories: Prepare horizontal surfaces according to ASTM F710.
 c. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate
 d. Do not install resilient products until materials are the same temperature as space where they are to be installed.
 e. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.
 2. Resilient Base Installation
 a. Comply with manufacturer's written instructions for installing resilient base.
 b. 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.
 c. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
 d. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
 e. Do not stretch resilient base during installation.
 3. Cleaning and Protection
 a. Comply with manufacturer's written instructions for cleaning and protecting resilient products.
 b. Cover resilient products subject to wear and foot traffic until Substantial Completion.

09 90 00 PAINTING

PART 1 GENERAL
1.1 SECTION INCLUDES
 A. Interior paint and coatings systems including surface preparation.
 B. Exterior paint and coatings systems including surface preparation.
1.2 SUBMITTALS
 A. Submit under provisions of Section 01.
 B. Product Data: For each paint system indicated, including:
 1. Product characteristics.
 2. Surface preparation instructions and recommendations.
 3. Primer requirements and finish specification.
 4. Storage and handling requirements and recommendations.
 5. Application methods.
 6. Cautions for storage, handling and installation.
 C. Verification Samples: For each finish product specified, submit samples that represent actual product, color, and sheen.
1.3 QUALITY ASSURANCE
 A. Installer Qualifications: A firm or individual experienced in applying paints and coatings similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.
 B. Paint exposed surfaces: If a color of finish, or a surface is not specifically mentioned, Architect will select from standard products, colors and sheens available.
 C. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels unless indicated.
1.4 PROJECT CONDITIONS
 A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS
2.1 MANUFACTURERS
 A. Basis of Design Manufacturer: Sherwin-Williams.
 B. Requests for substitutions will be considered in accordance with provisions of Section 01
2.2 APPLICATIONS/SCOPE
 A. Interior Paints and Coatings:
 1. Drywall: Drywall board, Gypsum board.
 2. Exposed Piping
 B. Exterior Paints and Coatings:
 1. Metal: HM Doors and Frames
2.3 PAINT MATERIALS - GENERAL
 A. Paints and Coatings.
 1. Unless otherwise indicated, provide factory-mixed coatings. When required, mix coatings to correct consistency in accordance with manufacturer's instructions before application. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
 2. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color. Or follow manufacturer's product instructions for optimal color conformance.
 B. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.
 C. Coating Application Accessories: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required, per manufacturer's specifications.
 D. Color: Refer to Finish Schedule for paint colors, and as selected.

2.4 INTERIOR PAINT SYSTEMS
 A. METAL: Aluminum, Galvanized.
 1. Alkyd System:
 a. Semi-Gloss Finish (Water Base):
 1) 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series (5.0 mils wet, 2.0 mils dry).
 2) 2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series.
 3) 3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series (4 mils wet, 1.7 mils dry per coat).
 B. DRYWALL - (Walls, Ceilings, Gypsum Board and similar items)
 1. Latex Systems:
 a. Eg-Shel / Satin Finish:
 1) 1st Coat: S-W ProMar 200 Zero VOC Interior Latex Primer, B28W2600 (4 mils wet, 1.5 mils dry).
 2) 2nd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-2600 Series.
 3) 3rd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-2600 Series (4 mils wet, 1.7 mils dry per coat).
 b. Flat Finish:
 1) 1st Coat: S-W ProMar 200 Zero VOC Interior Latex Primer, B28W2600 (4 mils wet, 1.5 mils dry).
 2) 2nd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-2600 Series.
 3) 3rd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-2600 Series (4 mils wet, 1.6 mils dry per coat).

2.5 EXTERIOR PAINT SYSTEMS
 A. METAL: HM Doors and Frames.
 1. Latex Systems:
 a. Gloss Finish:
 1) 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series (5.0 mils wet, 2.0 mils dry).
 2) 2nd Coat: S-W A-100 Exterior Latex Gloss, A8 Series.
 3) 3rd Coat: S-W A-100 Exterior Latex Gloss, A8 Series (4 mils wet, 1.3 mils dry per coat).

PART 3 EXECUTION
3.1 EXAMINATION
 A. Do not begin installation until substrates have been properly prepared; notify Architect of unsatisfactory conditions before proceeding. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
 B. Proceed with work only after conditions have been corrected and approved by all parties, otherwise application of coatings will be considered as an acceptance of surface conditions.
 C. Previously Painted Surfaces: Verify that existing painted surfaces do not contain lead based paints, notify Architect immediately if lead based paints are encountered.

3.2 SURFACE PREPARATION
 A. General: Surfaces shall be dry and in sound condition. Remove oil, dust, dirt, loose rust, peeling paint or other contamination to ensure good adhesion.
 1. Remove mildew before painting by washing with a solution of 1 part liquid household bleach and 3 parts of warm water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry a minimum of 48 hours before painting. Wear protective glasses or goggles, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.
 2. Remove items including but not limited to thermostats, electrical outlets, switch covers and similar items prior to painting. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
 3. No exterior painting should be done immediately after a rain, during foggy weather, when rain is predicted, or when the temperature is below 50 degrees F (10 degrees C), unless products are designed specifically for these conditions. On large expanses of metal siding, the air, surface and material temperatures must be 50 degrees F (10 degrees F) or higher to use low temperature products.
 B. Drywall - Interior: Must be clean and dry. All nail heads must be set and spackled. Joints must be taped and covered with a joint compound. Spackled nail heads and tape joints must be sanded smooth and all dust removed prior to painting.
 C. Galvanized Metal: Clean per SSPC-SP1 using detergent and water or a degreasing cleaner to remove greases and oils. Apply a test area, priming as required. Allow the coating to dry at least one week before testing. If adhesion is poor, Bush Blast per SSPC-SP7 is necessary to remove these treatments.

3.3 INSTALLATION
 A. Apply all coatings and materials with the manufacturer's specifications in mind. Mix and thin coatings

09 90 00 PAINTING

B. Do not apply to wet or damp surfaces. Wait at least 30 days before applying to new concrete or masonry. Or follow manufacturer's procedures to apply appropriate coatings prior to 30 days. Test new concrete for moisture content. Wait until wood is fully dry after rain or morning fog or dew.
 C. Apply coatings using methods recommended by manufacturer.
 D. Uniformly apply coatings without runs, dips, or sags, without brush marks, and with consistent sheen.
 E. Apply coatings at spreading rate required to achieve the manufacturers recommended dry film thickness.
 F. Regardless of number of coats specified, apply as many coats as necessary for complete hide, and uniform appearance.
 G. Inspection: The coated surface must be inspected and approved by the Architect just prior to the application of each coat.

3.4 PROTECTION
 A. Protect finished coatings from damage until completion of project.
 B. Touch-up damaged coatings after substantial completion, following manufacturer's recommendation for touch up or repair of damaged coatings. Repair any defects that will hinder the performance of the coatings.

10 22 26 OPERABLE PARTITIONS

PART 1 - GENERAL
1.1 RELATED DOCUMENTS
 A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
1.2 SUMMARY
 A. This Section includes the following:
 1. Manually operated, paired panel operable partitions.
1.3 QUALITY ASSURANCE
 A. Installer Qualifications: An experienced installer who is certified in writing by the operable partition manufacturer, as qualified to install the manufacturer's partition systems for work similar in material, design, and extent to that indicated for this Project.
 B. Acoustical Performance: Test operable partitions in an independent acoustical laboratory in accordance with ASTM E90 test procedure and classified in accordance with ASTM E413 to attain no less than the STC rating specified. Provide a complete and unedited written test report by the testing laboratory upon request.
 C. Preparation of the opening shall conform to the criteria set forth per ASTM E557 Standard Practice for Architectural Application and Installation of Operable Partitions.
 D. The operable wall must be manufactured by a certified ISO-9001-2015 company or an equivalent quality control system.
1.4 REFERENCE STANDARDS
 A. ASTM International
 1. ASTM E557 Standard Practice for Architectural Application and Installation of Operable Partitions.
 2. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
 1. 2.5. ASTM E84 - Surface Burning Characteristics of Building Materials.
 3. 6. ASTM E413 - Classification for Rating Sound Insulation
 E. Other Standards
 1. ADA - Americans with Disabilities Act.
1.5 SUBMITTALS
 A. Product Data: Material descriptions, construction details, finishes, installation details, and operating instructions for each type of operable partition, component, and accessory specified.
 B. Shop Drawings: Show location and extent of operable partitions. Include plans, elevations, sections, details, attachments to other construction, and accessories. Indicate dimensions, weights, conditions at openings, and at storage areas, and required installation, storage, and operating clearances. Indicate location and installation requirements for hardware and track, including floor tolerances required and direction of travel. Indicate blocking to be provided by others.
 C. Setting Drawings: Show imbedded items and cutouts required in other work, including support beam punching template.
 D. Samples: Color samples demonstrating full range of finishes available by architect. Verification samples will be available in same thickness and material indicated for the work.
 E. Reports: Provide a complete and unedited written sound test report indicating test specimen matches product as submitted.
1.6 DELIVERY, STORAGE, AND HANDLING
 A. Clearly mark packages and panels with numbering systems used on Shop Drawings. Do not use permanent markings on panels.
 B. Protect panels during delivery, storage, and handling to comply with manufacturer's direction and as required to prevent damage.
1.7 WARRANTY
 A. Provide written warranty by manufacturer of operable partitions agreeing to repair or replace any components with manufacturing defects.
 B. Warranty period: Two (2) years.
PART 2 - PRODUCTS
2.1 MANUFACTURERS, PRODUCTS, AND OPERATION
 A. Manufacturers: Subject to compliance with requirements, provide products by the following:
 1. Modernfield, Inc.
 B. Panels to be manufactured in the U.S.A.
 C. Products: Subject to compliance with the requirements, provide the following product:
 1. Acousti-Seal Premier - Paired Panel (932): Manually operated paired panel operable partition.
2.2 OPERATION
 A. Acousti-Seal Premier - Paired Panel (932): Series of paired flat panels hinged together in pairs, manually operated, top supported with operable floor seals.
 B. Final Closure
 1. Horizontally expanding panel edge with removable crank
 2. Hinged panel closure
2.3 PANEL CONSTRUCTION
 A. Nominal 3-inch (76mm) thick panels in manufacturer's standard 48-inch (1220mm) widths. All panel horizontal and vertical framing members fabricated from minimum 18-gauge formed steel with overlapped and welded corners for rigidity. Top channel is reinforced to support suspension system components. Frame is designed so that full vertical edges of panels are of formed steel and provide concealed protection of the edges of the panel skin.
 B. Panel Skin Options
 1. 1/2-inch (13mm) NAUF medium density fiberboard, single material or composite layers continuously bonded to panel frame. Acoustical ratings of panels with this construction: 50 STC
 C. Hinges for Closure Panels
 1. Full leaf butt hinges, attached directly to panel frame with welded hinge anchor plates within panel to further support hinge mounting to frame. Lifetime warranty on hinges. Hinges mounted into panel edge or vertical astragal are not acceptable.
 C. Panel Trim: No vertical trim required or allowed on edges of panels; minimal groove appearance at panel joints.
 D. Panel Weights: 50 STC - 8 lbs./square foot
2.4 PANEL FINISHES
 A. Panel face finish shall be
 1. Reinforced vinyl with woven backing weighing not less than 20 ounces (567 g) per lineal yard.
 2. Reinforced heavy-duty vinyl with woven backing weighing not less than 30 ounces (850 g) per lineal yard.
 3. Acoustical, non-woven needle punch carpet, with fused fibers to prevent unraveling or fray of material.
 4. Wall covering and upholstery fabric with surface treatment to resist stains.
 5. Panel trim: No exposed panel trim required or allowed; seals and hardware to be of one color.
 6. Panel Finish: 111873-690 Tek Wall Tint 015 Submerge
2.5 SOUND SEALS
 A. Vertical Interlocking Sound Seals between panels: Roll-formed steel astragals, with reversible tongue and groove configuration in each panel edge for universal panel operation. Rigid plastic or aluminum astragal or astragals in only one panel edge are not acceptable.
 B. Horizontal Top Seals: Continuous contact extruded vinyl bulb shape with pairs of non-contacting vinyl fingers to prevent distortion without the need for mechanically operated parts.
 C. Horizontal Bottom Seals: A2 Automatic operable seals providing nominal 2-inch (51 mm) operating clearance with an operating range of +1/2-inch (13mm) to -1/2 inch (38 mm) which automatically drop as panels are positioned, without the need for tools or cranks.
2.6 SUSPENSION SYSTEM
 A. #14 Suspension System
 1. Suspension Tracks: Minimum 7-gage, 0.18-inch (5 mm) roll formed steel. Track shall be supported by adjustable steel hanger brackets connected to structural support pairs of 1/2-inch (13mm) diameter threaded rods. Brackets must support the load bearing surface of the track.
 a. Exposed track soffits: Steel, removable for service and maintenance, attached to track bracket without exposed fasteners, and pre-painted off-white.
 2. Carriers: One all steel trolley with steel-tired ball bearing wheels per panel (except hinged panels). Non-steel tires are not acceptable.
 3. Warranty period: Twenty (20) years.

PART 3 - EXECUTION
3.1 INSTALLATION
 A. General: Comply with ASTM E557, operable partition manufacturer's written installation instructions, Drawings and approved Shop Drawings.
 B. Install operable partitions and accessories after other finishing operations, including painting have been completed.
 C. Match operable partitions by installing panels from marked packages in numbered sequence indicated on Shop Drawings.
 D. Broken, cracked, chipped, deformed, or unmatched panels are not acceptable.
3.2 CLEANING AND PROTECTION
 A. Clean partition surfaces upon completing installation of operable partitions to remove dust, dirt, adhesives, and other foreign materials according to manufacturer's written instructions.
 B. Provide final protection and maintain conditions in a manner acceptable to the manufacturer and Installer that ensure operable partitions are without damage or deterioration at time of Substantial Completion.
3.3 ADJUSTING
 A. Adjust operable partitions to operate smoothly, easily, and quietly, free from binding, wear, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Lubricate hardware and other moving parts.
3.4 EXAMINATION
 A. Examine flooring, structural support, and opening with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of operable partitions. Proceed with installation only after unsatisfactory conditions have been corrected.
3.5 DEMONSTRATION
 A. Demonstrate proper operation and maintenance procedures to Owner's representative.
 B. Provide Operation and Maintenance Manual to Owner's representative.

10 45 00 PEDESTRIAN CONTROL DEVICES

PART 1 GENERAL
1.1 SECTION INCLUDES
 A. ADA Compliant Swing Gates.
1.2 REFERENCES
 A. ADAAG - Americans with Disabilities Act Accessibility Guidelines; U.S. Architectural and Transportation Barriers Compliance Board.
1.3 SUBMITTALS
 A. Submit under provisions of Section 01.
 B. Product Data: Manufacturer's descriptive literature for equipment specified, including components and accessories.
 C. Shop Drawings: Indicate location of each individual pedestrian control device in the project.
 D. Manufacturer's instructions: Printed installation instructions for each product.
1.4 QUALITY ASSURANCE
 A. Regulatory Requirements: Sign types to comply with ADAAG requirements.
1.5 DELIVERY, STORAGE, AND HANDLING
 A. Store products of this section in manufacturer's unopened packaging until installation.
 B. Maintain dry, heated storage area for products of this section until installation of products.
1.6 WARRANTY
 A. Manufacturer's standard warranty against defects in material or workmanship for a period of 18 months from date of shipping.

PART 2 PRODUCTS
2.1 MANUFACTURERS
 A. Basis of Design Manufacturer: Turnstile Security Systems Inc; 40 Erin Park Drive, Erin, Ontario N0B 1T0. ASD. Tel: (519) 833-9494. Fax: (519) 833-9495. Toll Free: 1 (888) 371-2222. Toll-Free Fax: (888) 371-7922. E-mail: info@turnstilesecurity.com. Web Site: www.turnstilesecurity.com.
 B. Requests for substitutions will be considered in accordance with provisions of Section 01.
 C. Unless otherwise specified for an individual product or material, supply all products specified in this section from the same manufacturer.
2.2 EQUIPMENT
 A. Swing Gates Self Closing: ADA compliant self-closing arm closure with with 90 degree swings in both directions.
 a. Styles: Standard double swing gate.
 b. Arm Openings: 34"
 c. Finish: Bright Chrome.
 d. Signs: As selected from manufacturer's standard signs.
 B. Accessories: Installation accessories specified in manufacturer's instructions.
PART 3 EXECUTION
3.1 EXAMINATION
 A. Verify that surfaces to receive pedestrian control devices are properly prepared and ready to receive equipment.
3.2 INSTALLATION
 A. Install pedestrian control devices in accordance with manufacturer's instructions and the approved shop drawings. Comply with ADA requirements as required.
 B. Prepare surfaces to assure a smooth, level and rigid surface.
 C. Set fixed equipment with expansion bolts or other devices in accordance with the approved shop drawing.

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Penrose Library Remodel

20 N CASCADE AVE,
 COLORADO SPRINGS, CO 80903

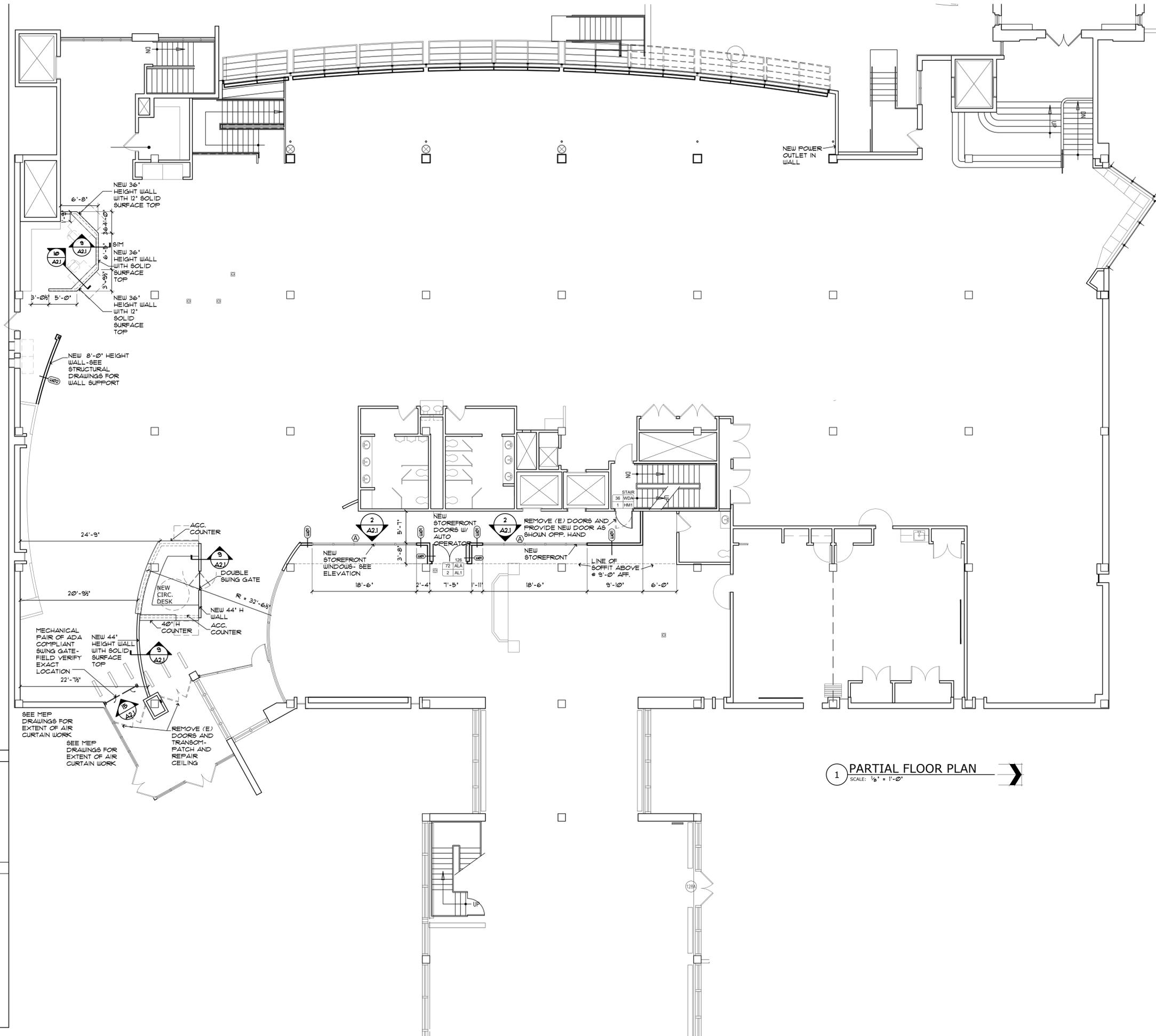
PROJECT NO: 24108
 PRINT DATE: 6/20/2024
 PROJECT MGR: SGT
 PREPARED BY: SGT



DATE:	DESCRIPTION:
06-06-2024	ISSUED FOR PLAN REVIEW

SHEET TITLE
PROJECT SPECIFICATIONS

SHEET NUMBER



PROJECT INFO
Penrose Library Remodel

20 N CASCADE AVE,
 COLORADO SPRINGS, CO 80903

PROJECT NO: 24108
 PRINT DATE: 6/7/2024
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SEAL



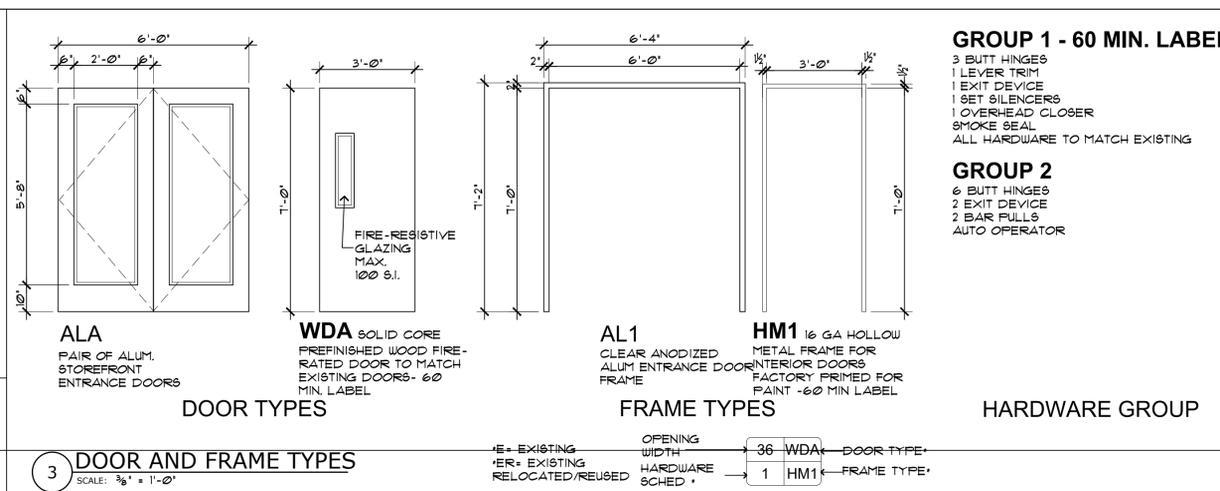
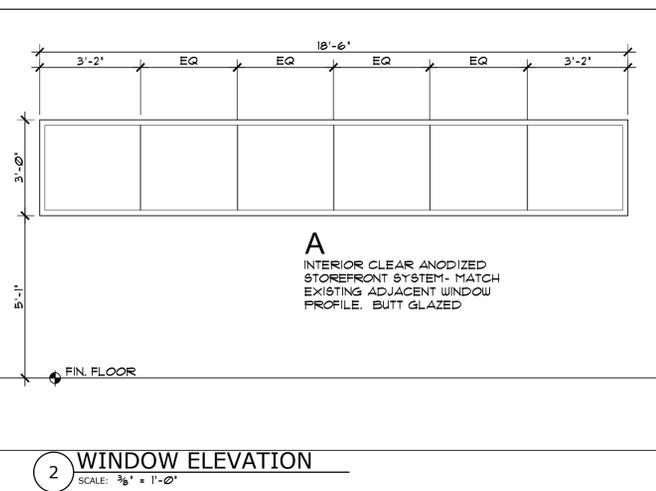
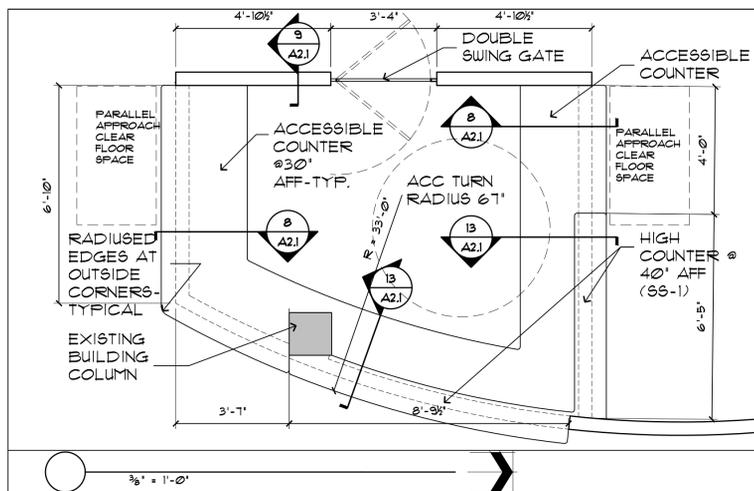
1 PARTIAL FLOOR PLAN
 SCALE: 1/8" = 1'-0"

- | | |
|-----|---|
| W01 | (FULL HEIGHT WALLS)
1 LAYER 3/8" GUB EACH SIDE OF 3 3/8" 22 GA STUD FRAMING. TERMINATE FRAMING AT FINISHED CEILING. PROVIDE SOUND BATTS |
| W02 | (PARTIAL HT WALLS)
1 LAYER 3/8" TYPE GUB, EACH SIDE OF 3 3/8" 22 GA METAL STUDS. 8'-0" FINISH HEIGHT OF WALL. FINISH TOP OF WALL WITH GUB. |
- ALL DIMENSIONS ARE TO FINISHED FACE OF WALL UNLESS NOTED OTHERWISE.
 - PROVIDE GYP. BOARD CONTROL JOINTS AT WALLS OVER 32'-0" IN LENGTH
 - FRAME DOOR OPENINGS 4' FROM FACE OF PERPENDICULAR WALL ON HINGE SIDE UNLESS NOTED OTHERWISE.
 - ALL FULL HEIGHT WALLS TO HAVE SOUND BATTS UNLESS NOTED OTHERWISE.
 - PROVIDE DOUBLE 20 GA STUDS (MIN.) AT ALL DOOR JAMBS.
 - EXTEND GYP. BD. ON WALLS TO 6' ABOVE FINISHED ACT CEILINGS AND TO UNDERSIDE OF GYP. BD. CEILINGS UNLESS NOTED OTHERWISE.

DATE:	DESCRIPTION:
06-06-2024	ISSUED FOR PLAN REVIEW

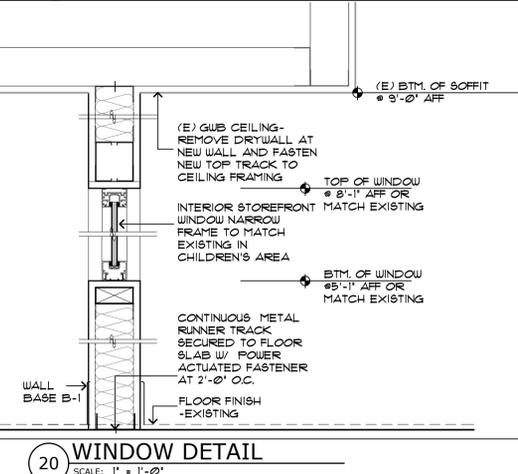
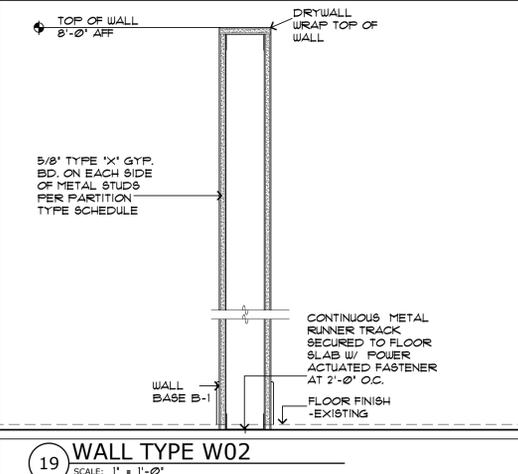
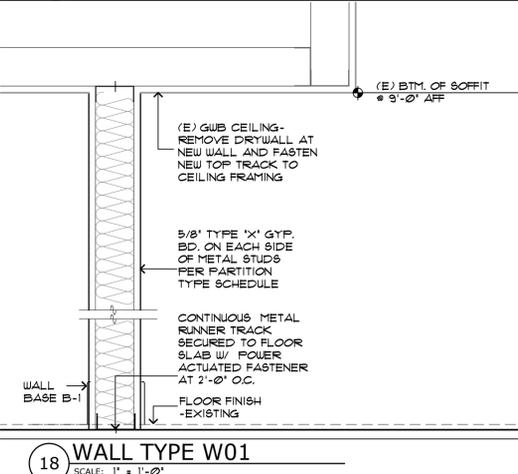
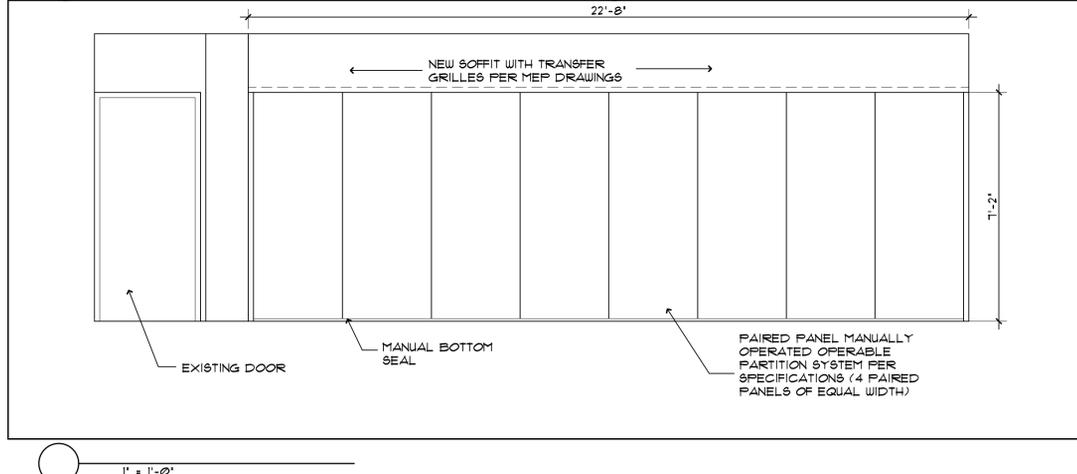
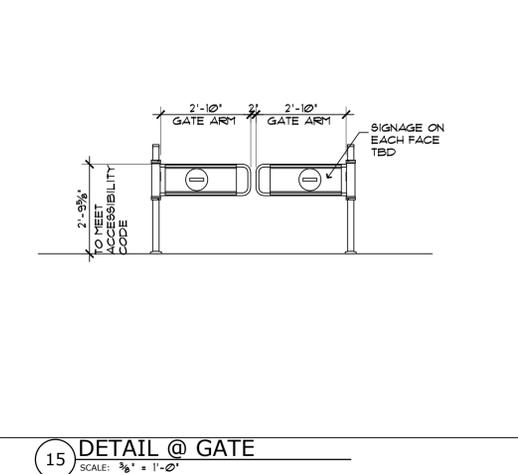
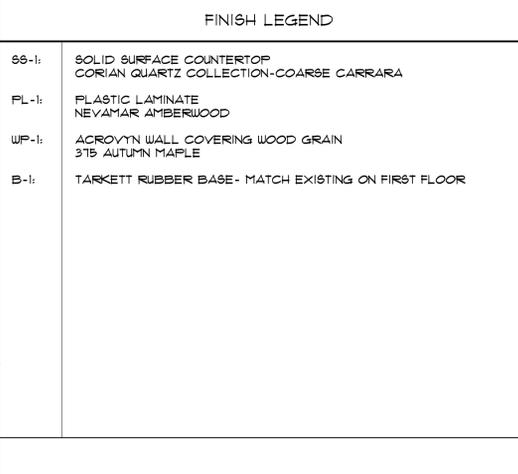
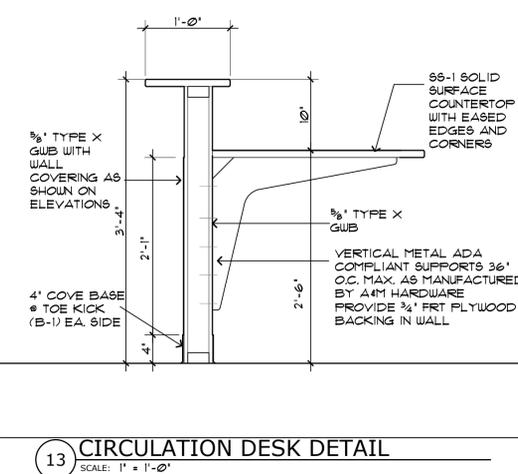
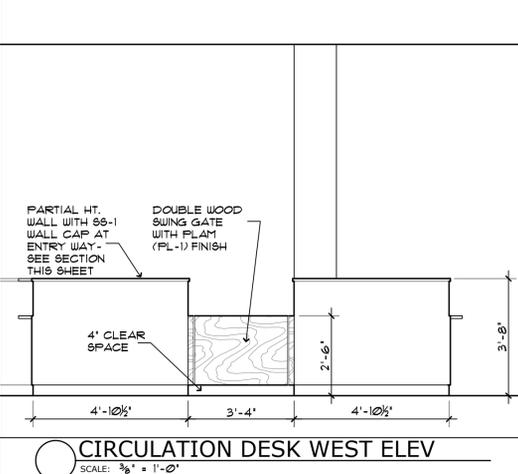
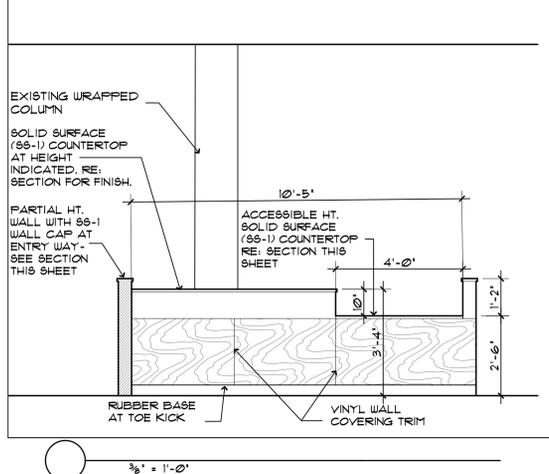
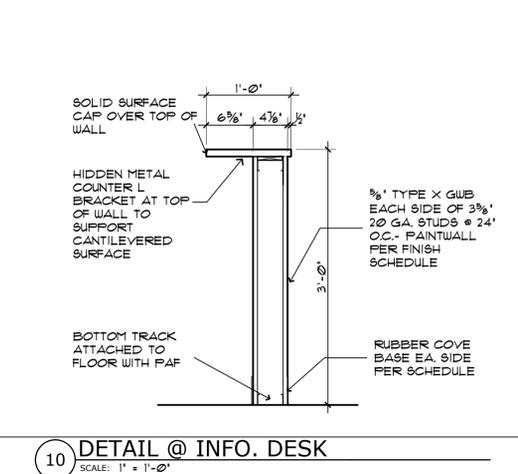
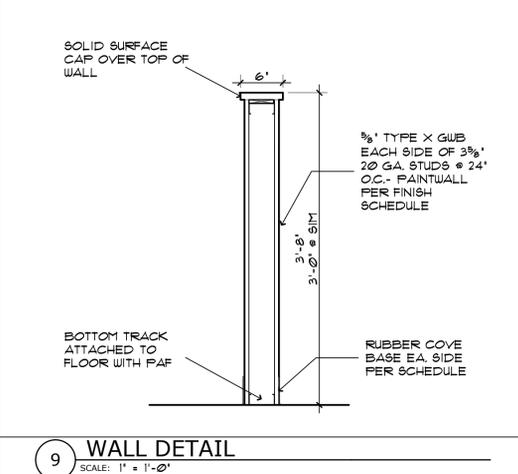
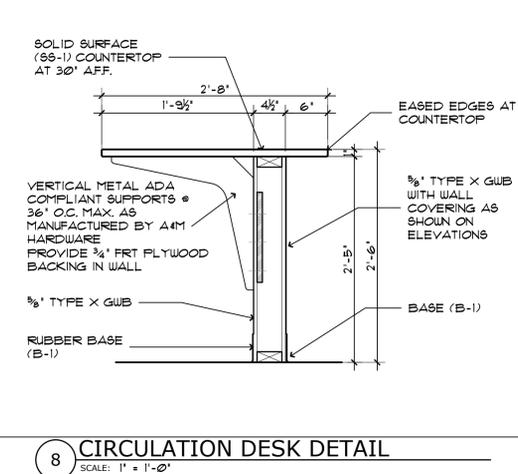
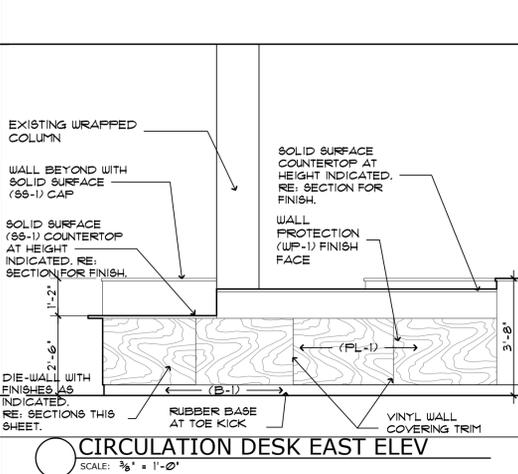
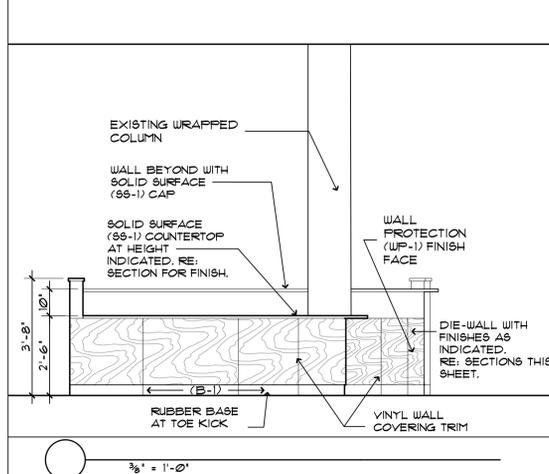
SHEET TITLE
UPPER LEVEL FLOOR PLAN

SHEET NUMBER



DESIGN EDGE
711 N. CASCADE AVE. SUITE 10
COLORADO SPRINGS, CO 80903
TELEPHONE: (719) 667-1972

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PROJECT INFO
Penrose Library Remodel

20 N CASCADE AVE,
COLORADO SPRINGS, CO 80903

PROJECT NO: 24108
PRINT DATE: 6/7/2024
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PREPARED BY: SGT

STATE OF COLORADO
SWAGATA
GUHATHAKURTA
B-3018
LICENSED ARCHITECT

ISSUE/REVISION
DATE: DESCRIPTION:
06-06-2024 ISSUED FOR PLAN REVIEW

SHEET TITLE
DETAILS SCHEDULE

SHEET NUMBER

A2.1

SPECIAL INSPECTION GENERAL NOTES

- A statement of special inspections for structural items has been prepared by HCDA Engineering, Inc. for submission to the Building Official. This is submitted as a condition for permit issuance in accordance with the Structural Testing and Special Inspection requirements of the International Building Code, 2021 edition.
- The Structural Engineer will perform periodic observations of construction. These observations shall not replace required inspections by the Building Official. These observations also do not serve as "Special Inspections" as required by section 1704 of the International Building Code.
- Steel Fabricators shall be approved in accordance with IBC section 1704.2.5.1 of the International Building Code, 2021 Edition, or are required to have shop inspections of the fabricated items for the project by the special inspector hired by the Owner as required by section 1704.2.5.
- Special Inspectors (not third party inspectors) shall be approved individually by the Building Official prior to the issuance of a permit. Please provide the list of specific special inspectors to determine if they have already been approved. Each Special Inspector not already approved by the Building Official must provide a resume and all supporting information related to their qualifications for the specific type of special inspections in accordance with IBC 1704.2.1.

GENERAL NOTES

- Materials and workmanship shall be in accordance with the requirements of "The International Building Code", 2021 Edition and the "Pikes Peak Regional Building Code", 2023 Edition.
- Contractor shall check and verify all dimensions shown on structural drawings with those shown on architectural.
- Contractor shall notify Architect of any discrepancies between architectural and structural drawings and receive written clarification of discrepancies before proceeding with construction.
- Contractor shall field measure and verify all existing conditions and dimensions at job site.
- In case existing conditions or dimensions vary from those shown on drawing, Contractor shall notify the Architect so proper adjustments can be made.
- Special inspections shall be performed in accordance with I.B.C. Section 1704 when such inspections are required by the Building Official. Contractor shall coordinate the work schedule with the special inspectors who are selected and paid by the Owner.
- During construction, the contractor shall be responsible for temporary bracing and shoring to withstand all loads to which the structure may be subjected, including lateral loads, stockpiles of materials and equipment. Temporary bracing shall remain in place until all structural framing and diaphragms are in place with connections completed.
- Where the Structural Drawings appear to conflict with OSHA requirements, the Structural Drawings represent final conditions only, the contractor shall add all erection framing, bolts, stabilizer plates, etc. as may be necessary to comply with OSHA.
- If discrepancy discovered in documents, more stringent criteria governs. Notify Engineer prior to installation.

PARTITION SUPPORT STRUCTURE

- Only Unistrut members, connections, and fasteners manufactured to meet the material and section properties and allowable capacities published by Unistrut in the Unistrut Metal Framing - General Engineering Catalog - North American Edition No. 12, shall be used.
- Only Unistrut members, connections, and fasteners manufactured under a Unistrut approved Quality Assurance program shall be used.
 - Equivalent substitutions are not allowed without prior authorization from the Architect and/or Engineer of Record.
- Fittings shall be:
 - Punch press made from hot rolled, pickled and oiled steel plates, strip or coil, and conform to ASTM A575, A576, A635, or A36.
 - Used with fitting steel meeting the physical requirement of ASTM A570 Gr. 33.
 - Free from scale with a smooth surface.
- Nuts and bolts, also referred to as fasteners, shall be:
 - Machined from steel bars conforming to ASTM A576 Gr. 1015.
 - Machined with Unified course screw threads.
 - Machined with toothed grooves to engage the intumed edges of the framing member channels.
 - Case hardened after machining.
 - Tightened sufficiently to prevent movement of the bolt and nut within the framing member.
- Screws, also referred to as fasteners, shall:
 - Conform to SAE J429 Gr. 2
- All members, connections and fasteners shall be finished with Unistrut Perma-Green II finish in accordance with Unistrut guidelines resulting in a finish which will withstand 400 hours of salt spray when tested in accordance with ASTM B117 or shall be electro-galvanized in accordance with ASTM B633 Type III SC1, unless noted otherwise.

LIGHTGAGE STRUCTURAL FRAMING GENERAL NOTES

- All lightgauge structural framing shall conform to the AISI Specification, "Lightgauge Cold-Formed Steel Design Manual", latest edition.
- All welding shall conform to the "AWS Structural Welding Code", latest edition.
- All separate wall elements shall be field welded together at all joints with fillet, butt, or seam welds.
- All field welds and surfaces abraded during shipping or erection shall be painted immediately after erection.
- All joints at framing members shall be welded.
- All welding shall be done with AWS A5.1 or A5.5 E60 XX electrodes.
- Stud track shall be fastened to concrete with powder driven fasteners. Fasteners shall be HILTI XU-32 (1 1/4" embed) or equal at 16" O.C. center unless noted otherwise. At cantilevered parapets, plug weld or fillet weld to steel beam.
- Studs, Joists, and Track: studs and joists widths as called for on drawings. Head and sill track and header members to be unpunched track, same gauge as studs or one gauge heavier.
- Bridging: bridging may be either 18 gauge or heavier channel studs of the same nominal width as the studs, staggered not more than 16" or continuous minimum 1 1/2" cold-rolled channels positioned through stud punch-outs. The ratio of unbraced length to least radius of gyration (l/r) of the bridging members shall not exceed 300. Channel stud bridging formed from steel conforming to ASTM A611, Grade C. Continuous channels used for bridging to conforming to ASTM A645. Attach bridging to studs by welding.
- Multiple Studs: provide multiple studs full-height from floor to roof structure at all door and window jamb locations as follows:
 - Double studs at walls where roof structure is 14'-0" or less above finish floor.
 - Triple studs at walls where roof structure is between 14'-0" to 17'-0" above finish floor.
 - Quadruple studs at walls where roof structure is 17'-0" or higher above finish floor.
- Typical stud to track connection shall be a minimum (1) No.10 screw each side of track to stud flange.
- Welded stud to track connections (1/8" fillet weld, 1" long, each flange are required at the following locations:
 - Base of cantilevered parapets.
 - Studs suspended by their top track above window / door openings.
 - Other locations as shown on plan.
- Attach bridging by welding capable of resisting a horizontal force of not less than 500 lbs. Locate bridging at mid-span of studs less than or equal to 10'-0" to length. Locate bridging at 4'-0" on center maximum at all other studs or joists.
- Members 16 gauge or thicker are to be 50ksi steel.

STRUCTURAL STEEL GENERAL NOTES

- All steel shall conform to the "Standard Specification for Structural Steel" ASTM Designation A572, Grade 50, or ASTM A992, latest edition, except where noted otherwise. Angles, channels, and plates shall conform to ASTM A36. Round hollow structural steel sections shall conform to ASTM A500, Fy = 42 ksi. Square or rectangular hollow structural sections shall conform to ASTM A500, Grade B, Fy = 46 ksi. Pipe shall conform to ASTM A53, Grade B, Fy = 35 ksi. Threaded rod and anchor rods shall conform to ASTM F1554 Gr. 36.
- All detailing, fabrication and erection shall conform to AISI "Specification for Structural Steel Buildings", and the AISI "Code of Standard Practice for Steel Buildings and Bridges", latest edition, and "Load and Resistance Factor Design Specification for Structural Steel Buildings" when applicable.
- This structure contains "non-self-supporting steel frames" per AISI definition. The contractor shall coordinate the installation of all necessary temporary bracing which shall remain in place until the lateral support system is constructed and connected to the framing. Beam connections not shown on the details shall be designed by the steel fabricator in accordance with Tables 10-1, 10-2, 10-3, and 10-4 of the AISI "Manual of Steel Construction", Fourteenth Edition. Beam reactions not shown on plans or details shall be computed from the design loads shown on the drawings.
- Shop connections shall be welded unless noted otherwise.
- Field connections shall be made with 3/4" diameter ASTM A325 High Strength Bolts. Connections shall be bearing-type tightened to a "snug-tight" condition unless noted as "Tension Controlled". Connections utilizing "Tension Controlled" bolts shall be pretensioned but do not require faying surface preparation unless noted otherwise.
- Equivalent welded connections may be substituted for bolted connections subject to Architect's approval.
- All welding shall be done by certified welding operators and shall conform to "AWS Structural Welding Code" (AWS D1.1), latest edition.
- Welding sizes not otherwise shown shall be minimum continuous 1/4 inch fillet welds, or equal to the thickness of the thinner material minimum 1/16th inch, whichever is less.
- All welding shall be done with AWS A5.1 or A5.5 E70 X8 electrodes except for welding of ASTM A706 rebar, which shall be welded using E80 electrodes.
- Areas within 2 inches of field welds shall not be painted until after welding. Field welds, bolt heads, nuts and other surfaces not shop painted and surfaces abraded during shipping and erection shall be field painted after erection.
- All structural steel exposed to view shall conform to the provisions for "Architecturally Exposed Structural Steel" in the AISI Code of Standard Practice.
- All steel (except that to receive spray-on fireproofing) shall receive one shop coat of metal primer or equal conforming to Steel Structures Painting Council Specification (SSPC No. 15).

Cold-Formed Steel Framing

C = Continuous P = Periodic

Item	Scope	Frequency	
		C	P
1. Member Sizes	Verify compliance with construction documents and specifications.		X
2. Material Thickness	Verify compliance with construction documents and specifications.		X
3. Material Properties	Verify compliance with construction documents and specifications.		X
4. Mechanical Connections	Verify compliance with construction documents and specifications.		X
5. Welding	Verify compliance with construction documents and specifications.		X
6. Framing Details	Verify compliance with construction documents and specifications.		X

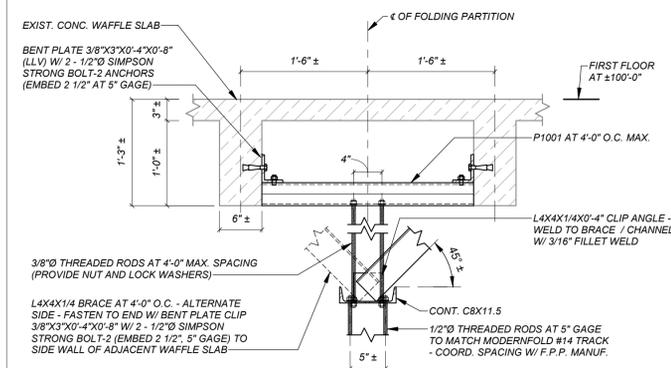
Structural Steel

C = Continuous P = Periodic

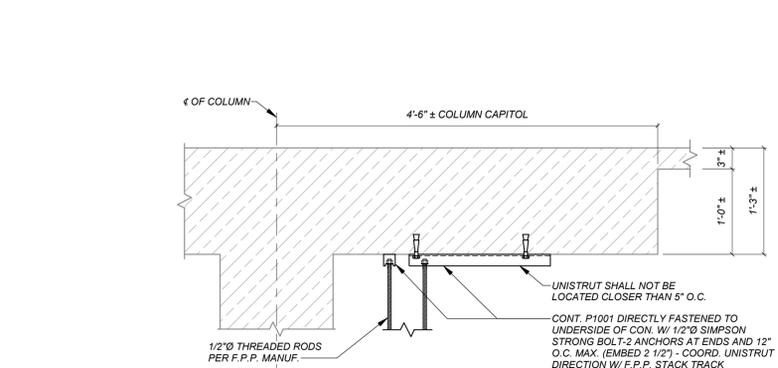
Item	Scope	Frequency	
		C	P
1. Fabricator Certification / Quality Control Procedures	Review shop fabrication and quality control procedures.		X
	<input type="checkbox"/> Fabricator Exempt To be paid by Fabricator if plant not certified.		
2. Material Certification	Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes.		X
3. Bolting	Inspect installation and tightening of high-strength bolts. Verify that splices have separated from tension control bolts.		X
4. Welding - Single pass fillet welds	Visually inspect welds. Verify size and length of fillet welds.		X
5. Structural Details	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.		X
6. Quality Assurance	In addition to items listed above, inspection of structural steel shall be in accordance with requirements indicated in Chapter N of the AISI 360.		X

DESIGN LOADS:

Building Risk Category	III
Site Elevation	±6.02 ft
Roof Loads	
Dead Load	68 psf
Live Load	20 psf
Snow Loads	
Flat Roof	P _s = 33 psf
Ground	P _g = 43 psf
Importance Factor	I _s = 1.1
Exposure Factor	C _e = 1.0
Thermal Factor	C _t = 1.0
Slope Factor	C _s = 1.0
Rain Intensity	i = 3 in/hr
Floor Loads	
Dead Load	78 psf
Live Load	125 psf
Wind Loads	
Basic Design Wind Speed	V = 135 mph
Allowable Stress Design Wind Speed	V _{asd} = 105 mph
Exposure Category	C
Internal Pressure Coefficient	GC _p = ±0.18
Seismic Information	
Importance Factor	I _e = 1.25
Mapped Spectral Response Acceleration Parameters	S _s = 0.207g S ₁ = 0.059g
Site Class	D (Assumed)
Design Spectral Response Acceleration Parameters	S _{DS} = 0.221g S _{D1} = 0.094g
Seismic Design Category	B



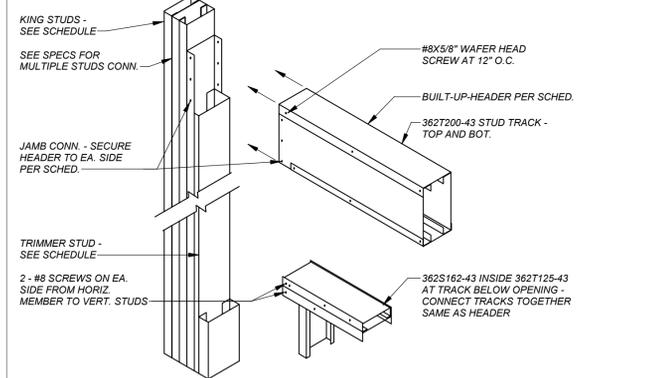
TYPICAL PARTITION SUPPORT DETAIL 1
 1"=1'-0"
 SEE 2/SO.1 FOR PARTITION STACK SUPPORT FRAMING.



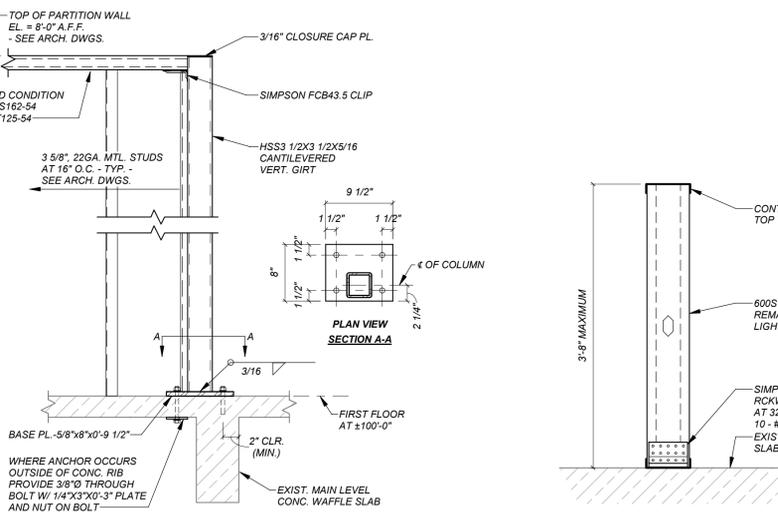
TYPICAL PARTITION SUPPORT DETAIL 2
 1"=1'-0"
 SUPPORT CHANNEL NOT SHOWN FOR CLARITY; CHANNEL SHALL FOLLOW PARTITION STACK ORIENTATION.

TYPICAL METAL STUD HEADER SCHEDULE

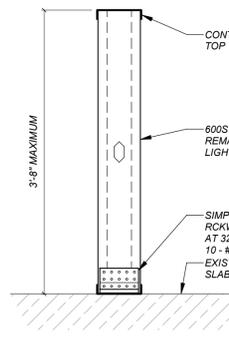
HEADER LENGTH	BUILT-UP HEADER TYPE	JAMB CONNECTION	TRIMMER STUD	KING STUDS
18'-6"	(2) 800S162-43	4 - #10	(2) 362S162-54	(2) 362S162-54



TYPICAL INTERIOR STOREFRONT WINDOW DETAIL 3
 3/4"=1'-0"



VERTICAL GIRT AT WALL TYPE W02 END CONDITION 4
 1"=1'-0"
 SEE 19/A2.1 FOR REMAINDER

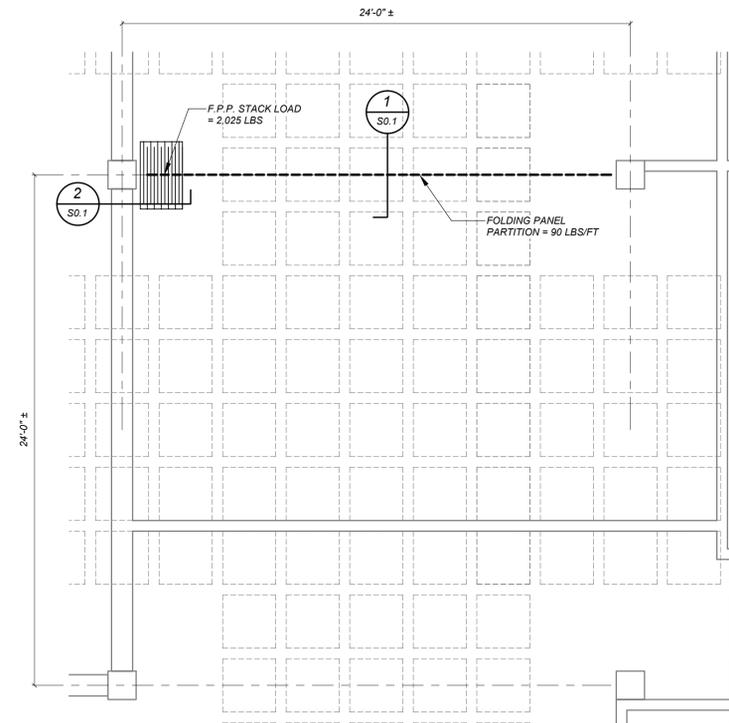


TYPICAL CANTILEVERED PARTITION WALL DETAIL 5
 1"=1'-0"
 SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND HEIGHTS.



ISSUE/REVISION

DATE	DESCRIPTION
06-06-2024	ISSUED FOR PLAN REVIEW



**PARTIAL LOWER LEVEL
 REFLECTED CEILING PLAN**

- 1/4"=1'-0"
 • FIELD VERIFY EXISTING FRAMING AND DIMENSIONS SHOWN.
 • EXISTING FLOOR STRUCTURE CONSISTS OF 15" DEEP
 CONCRETE WAFFLE SLAB WITH 6" RIBS AT 3'-0" ON-CENTER.

PROJECT INFO

Penrose Library Remodel

20 N CASCADE AVE,
 COLORADO SPRINGS, CO 80903

PROJECT NO: 24188
 PRINT DATE: 6/7/2024
 PROJECT MGR: JAK
 PREPARED BY: MTJ

SEAL



ISSUE/REVISION

DATE	DESCRIPTION
06-06-2024	ISSUED FOR PLAN REVIEW

SHEET TITLE
**PARTIAL LOWER LEVEL
 REFLECTED CEILING PLAN**

SHEET NUMBER

S1.2

GENERAL NOTES

- DO NOT SCALE FROM THESE DRAWINGS. DIMENSIONS SHALL BE TAKEN FROM ARCHITECTURAL DRAWINGS.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED ONLY TO DEFINE THE BASIC FUNCTIONS REQUIRED FOR PROPER OPERATION OF THE SYSTEMS, EVEN THOUGH NOT SPECIFICALLY INDICATED, SHALL BE INCLUDED AND INSTALLED. SUCH ACCESSORIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FILTERS, CONDENSATE DRAINS, RELIEF VALVES, SERVICE VALVES, THERMOSTATS, MOTOR STARTERS, ETC.
- NOT ALL EXISTING DUCTWORK, PIPING, AND ACCESSORIES ARE NECESSARILY SHOWN ON THIS DRAWING, BUT WHAT IS DEEMED NECESSARY TO SHOW INTENT OF WORK INVOLVED FOR THIS PROJECT. REFER TO ALL PLANS, SECTIONS, DETAILS, SCHEDULES, AND SPECIFICATIONS FOR COMPLETE SYSTEM REQUIREMENTS.
- SCOPE OF WORK CONSISTS OF FURNISHING LABOR, MATERIALS, AND EQUIPMENT FOR THE INSTALLATION. IT ALSO INCLUDES PLACING INTO OPERATION COMPLETE AND OPERABLE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS AS SPECIFIED AND SHOWN. THIS INCLUDES, BUT IS NOT LIMITED TO: HVAC UNITS, EXHAUST FANS, MINI SPLIT SYSTEMS, DUCTWORK, CONTROLS AND ACCESSORIES. CONTRACTOR SHALL ALSO COORDINATE ALL PENETRATIONS OF THE FLOOR, ROOF, WALLS, ETC. WITH THE GENERAL CONTRACTOR.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, AND LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL HVAC MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THESE RULES, REGULATIONS, AND ORDINANCES AT NOT ADDITIONAL COST. THESE CODES REPRESENT THE MINIMUM ACCEPTABLE REQUIREMENTS, THEREFORE, WHERE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF THESE CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN.
- HVAC LAYOUT IS BASED ON ARCHITECTURAL DRAWINGS AVAILABLE AT THE TIME OF THE DESIGN. AS FIELD CHANGES MAY OCCUR, CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATION OF ALL EXISTING HVAC EQUIPMENT AND DUCTWORK AS WELL AS EXISTING CONDITIONS FOR DEFECTS PRIOR TO INSTALLATION. MECHANICAL CONTRACTOR SHALL NOTIFY BUILDER OF ANY REQUIRED CHANGES OR ALTERATIONS AND SHALL TAKE RESPONSIBILITY FOR VERIFYING THE INTEGRITY OF THE CHANGES WITH THE ENGINEER OF RECORD.
- IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS AS WELL AS ALL PERTINENT SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL SCOPE OF WORK. IN ADDITION, THE MECHANICAL CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS AND CHANGES THE OWNER MAY CONSIDER PART OF THIS SCOPE AND MAY NOT BE SPECIFIED HEREIN. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO WORK CLOSELY WITH ALL TRADES IN ORDER TO ENSURE A FULLY COORDINATED INSTALL.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THIS DRAWING SET OR BETWEEN THIS SET AND THE RELATED PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, CIVIL, ARCHITECTURAL AND SITE ENGINEERING DRAWINGS, OR BETWEEN THIS SET AND EXISTING FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT, AND ENGINEER OF RECORD PRIOR TO BID SUBMITTAL.
- PER 2021 INTERNATIONAL MECHANICAL CODE, ALL MATERIALS WITHIN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723. REFER TO 2021 INTERNATIONAL MECHANICAL CODE FOR ANY EXCEPTIONS.
- PER 2021 INTERNATIONAL ENERGY CONSERVATION CODE, MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING, ADJUSTING, AND BALANCING (T.A.B.). THE T.A.B. REPORT SHALL BE PROVIDED TO THE MECHANICAL INSPECTOR AT TIME OF FINAL INSPECTION. COPIES OF ALL DOCUMENTATION SHALL BE GIVEN TO THE OWNER OR OWNER'S AUTHORIZED AGENT AND MADE AVAILABLE TO THE MECHANICAL INSPECTOR UPON REQUEST IN ACCORDANCE WITH IECC SECTIONS C408.2.4 AND C408.2.5.
- BRANDS AND MODELS OF EQUIPMENT SHOWN ON THE SCHEDULES ARE GIVEN AS STANDARD. BRANDS AND MODELS OF EQUAL CAPACITY AND QUALITY MAY BE USED WITH ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER FIT AND OTHER ASPECTS RELATED TO THE SUBSTITUTION. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
- PER 2021 INTERNATIONAL MECHANICAL CODE, FLEXIBLE AIR DUCTS, BOTH METALLIC AND NONMETALLIC, SHALL BE TESTED IN ACCORDANCE WITH UL 181. FLEXIBLE AIR DUCTS SHALL NOT EXCEED 6 FEET IN LENGTH.
- ALL OUTSIDE AIR INTAKES SHALL BE LOCATED AT A MINIMUM OF 10 FEET FROM ANY PLUMBING VENT, EXHAUST, AND FLUE OUTLETS.
- EXHAUST DUCTS SHALL TERMINATE 3 FEET FROM ANY BUILDING OPENING AND BE EQUIPPED WITH A BACKDRAFT DAMPER.
- ALL OUTSIDE WALL PENETRATIONS SHALL BE AIR AND WATER TIGHT WITH A WATERPROOF SILICONE SEALANT.
- ALL ROOF PENETRATIONS SHALL BE FLASHED AND CAPPED. COORDINATE THE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION WITH BUILDING OWNER. PROVIDE AND INSTALL BIRDSCREEN ON OPENINGS FREELY COMMUNICATING WITH THE OUTSIDE.
- UNLESS OTHERWISE NOTED, DIFFUSER/GRILLE/REGISTER NECK SIZES SHOWN ON DRAWINGS INDICATES SIZE OF DUCT TO DIFFUSER/GRILLE/ REGISTER. DUCT SIZES SHOWN REPRESENT CLEAR INSIDE DIMENSIONS. DIMENSIONS SHALL BE INCREASED TO ACCOMMODATE LINING THICKNESS. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED AS LONG AS THE NET FREE FACE AREA IS MAINTAINED.
- CONTRACTOR SHALL PAINT BLACK BEHIND ALL GRILLES AND REGISTERS AND INSIDE OF DUCT WHERE VISIBLE.
- ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS WHETHER SHOWN OR NOT.
- CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE MAINTENANCE INSTRUCTIONS FOR EQUIPMENT AND SYSTEMS THAT REQUIRE PREVENTATIVE MAINTENANCE AS WELL AS ANY WRITTEN WARRANTIES COVERING MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE PROJECT.
- PER 2021 IECC SECTION 403.12.1, ALL SUPPLY AND RETURN DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH A MINIMUM OF R-12 INSULATION. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-12 INSULATIONS. REFER TO IECC, FOR ALL EXCEPTIONS.

2021 MECHANICAL IECC COMPLIANCE NOTES

- THE 2021 INTERNATIONAL ENERGY CODE (IECC) SHALL BE FOLLOWED FOR THIS PROJECT. THE FOLLOWING CODES LISTED ARE ONLY A PORTION OF WHAT MAY BE APPLICABLE TO THE PROJECT.
- GENERAL REQUIREMENTS
 - BUILDING ENVELOPE REQUIREMENTS
 - OPERABLE OPENINGS INTERLOCKING
 - BUILDING MECHANICAL SYSTEMS
 - CALCULATIONS OF HEATING AND COOLING LOADS
 - VENTILATION
 - FAULT DETECTION AND DIAGNOSTICS
 - EQUIPMENT SIZING
 - HVAC EQUIPMENT PERFORMANCE REQUIREMENTS - EQUIPMENT SHALL MEET THE MINIMUM REQUIREMENTS OF TABLES 403.3.2(1)-403.3.2(16)
 - HEATING AND COOLING SYSTEM CONTROLS
 - HEATED OR COOLED VESTIBULES - THE HEATING/COOLING SYSTEM FOR CONDITIONED VESTIBULES AND AIR CURTAINS WITH INTEGRAL HEATING SHALL BE PROVIDED WITH CONTROLS CONFIGURED TO DEACTIVATE THE HEATING SOURCE WHEN THE OUTDOOR AIR TEMPERATURES ARE GREATER THAN 45° (F). VESTIBULE HEATING AND COOLING SYSTEMS SHALL BE CONTROLLED BY A THERMOSTAT LOCATED WITHIN THE VESTIBULE CONFIGURED TO LIMIT TEMPERATURE TO NOT GREATER THAN 60° (F) AND COOLING TO A TEMPERATURE NOT LESS THAN 85° (F).
 - OFF-HOUR CONTROLS - EACH ZONE SHALL BE PROVED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM.
 - THERMOSTATIC SETBACK CAPABILITIES - THERMOSTATIC SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55° (F).
 - AUTOMATIC SETBACK AND SHUTDOWN - AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP THE 2 HOURS; OR AN OCCUPANCY SENSOR.
 - HYDRONIC SYSTEMS CONTROL
 - ECONOMIZERS - ECONOMIZERS SHALL COMPLY WITH SECTIONS 403.5.1 THROUGH 403.5.5
 - REQUIREMENTS FOR MECHANICAL SYSTEMS SERVING MULTIPLE ZONES - SECTIONS 403.6.1 THROUGH 403.6.9 SHALL APPLY TO MECHANICAL SYSTEMS THAT INCLUDE FANS.
 - HEAT REJECTION EQUIPMENT
 - REFRIGERATION EQUIPMENT PERFORMANCE
 - CONDENSERS SERVING REFRIGERATION SYSTEMS
 - COMPRESSOR SYSTEMS
 - DUCT AND PLENUM INSULATION AND SEALING - ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH NOT LESS THAN R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH NOT LESS THAN R-9 INSULATION IN CLIMATE ZONES 0 THROUGH AND NOT LESS THAN R-12 INSULATION IN CLIMATE ZONES 5 THROUGH 8. DUCTS LOCATED UNDERGROUND BENEATH BUILDINGS SHALL BE INSULATED AS REQUIRED IN THIS SECTION OR HAVE AN EQUIVALENT THERMAL DISTRIBUTION EFFICIENCY. UNDERGROUND DUCTS UTILIZING THE THERMAL DISTRIBUTION EFFICIENCY METHOD SHALL BE LISTED AND LABELED TO INDICATE THE THERMAL R-VALUE EQUIVALENCY. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY NOT LESS THAN R-9 INSULATION IN CLIMATE ZONES 0 THROUGH 4 AND NOT LESS THAN R-12 INSULATION IN CLIMATE ZONES 5 THROUGH 8.
 - PIPING INSULATION
 - MECHANICAL SYSTEMS LOCATED OUTSIDE OF BUILDING THERMAL ENVELOPE - SECTIONS 403.13.1 THROUGH 403.13.3 SHALL APPLY TO MECHANICAL SYSTEMS PROVIDING HEAT OUTSIDE OF THE THERMAL ENVELOPE OF A BUILDING.
 - ADDITIONAL EFFICIENCY REQUIREMENTS
 - TOTAL BUILDING PERFORMANCE
 - HVAC ZONES DESIGNATED
 - CALCULATION SOFTWARE TOOL
 - SYSTEM COMMISSIONING
 - MECHANICAL SYSTEMS AND SERVICE WATER HEATING SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS

EXCEPTIONS: TOTAL MECHANICAL EQUIPMENT CAPACITY <480,000 BTUH OR 40 TONS COOLING AND <600,000 BTUH COMBINED HEATING AND SERVICE WATER HEATING
 - AIR SYSTEM BALANCING - EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICE SHALL BE EQUIPPED WITH MEANS FOR AIR BALANCING IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 OF THE INTERNATIONAL MECHANICAL CODE. DISCHARGE DAMPERS ARE PROHIBITED ON CONSTANT VOLUME FANS AND VARIABLE VOLUME FANS WITH MOTORS 10 HP AND LARGER. AIR SYSTEMS SHALL BE BALANCED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES THEN FOR FANS WITH SYSTEM POWER OF GREATER THAN 1 HP, FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS
 - DOCUMENTATION REQUIREMENTS - A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION 408.2.5 OF THE 2021 IECC

HVAC LEGEND

SYMBOL	
	36\"X12\"
	36\"X12\"
	6\"Ø
	36\"X12\" 24\"X12\"
	36\"X12\" 24\"X12\"
— SA —	
— RA —	
— EA —	
	RTU-1
	EF 1
	SG1 100 CFM 6\"Ø

NOTE: WHEN ALL SYMBOLS REPRESENTED ARE SHOWN ON PLANS IN A LIGHT LINE WEIGHT DENOTES EXISTING DEVICES.

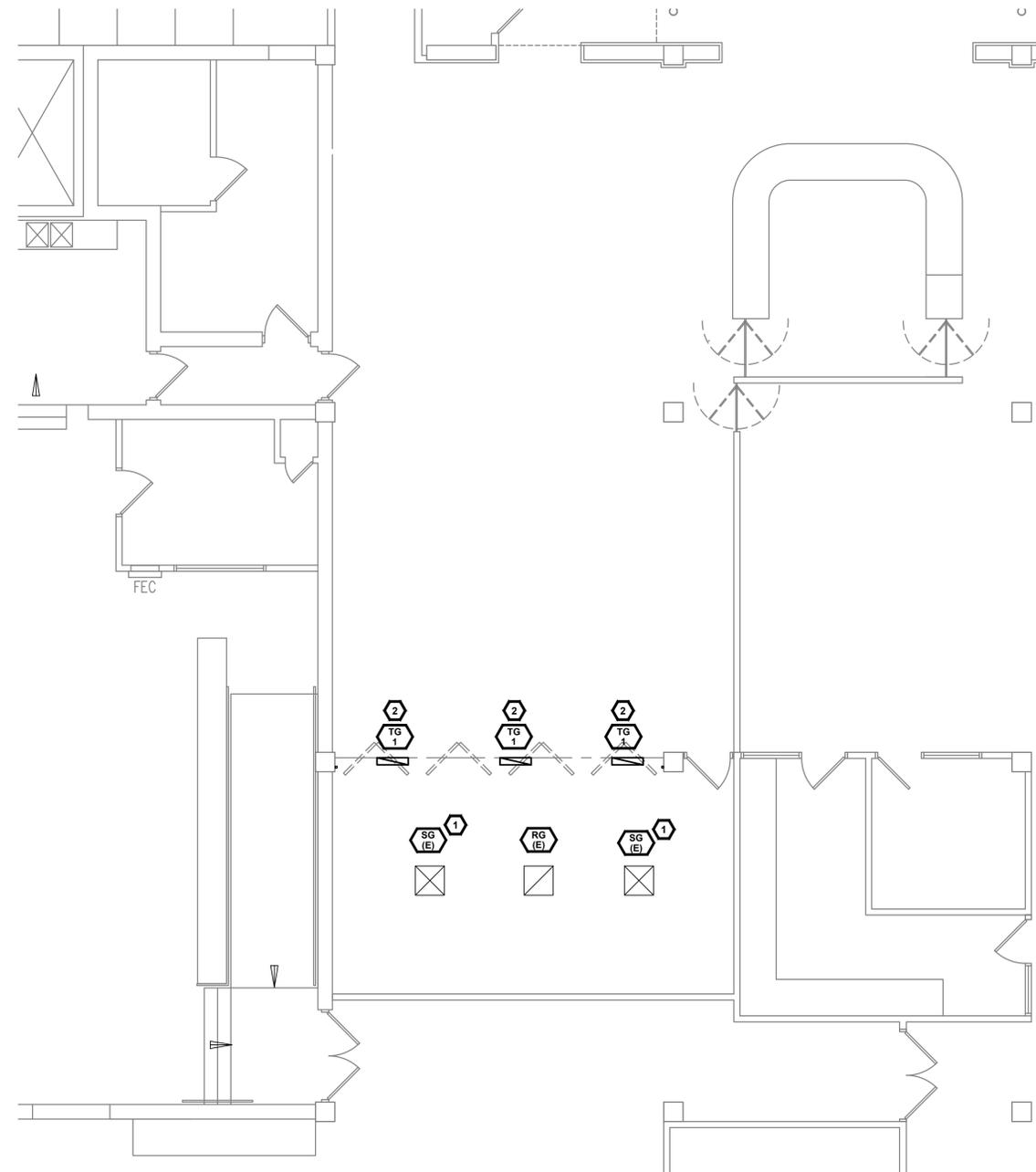
SHEET INDEX

SHEET NUMBER	
M001	GENERAL INFORMATION AND SCHEDULES
M110	MECHANICAL PLAN - LOWER FLOOR
M111	MECHANICAL PLAN - MAIN FLOOR



10186 MT. LINCOLN DR. PEYTON, CO 80831
 INFO@CHATTANOE.COM
 719.257.2091






MECHANICAL PLAN - LOWER FLOOR
 SCALE: 3/16" = 1'-0"

AIR DEVICE SCHEDULE						
THE EQUIPMENT SCHEDULED BELOW MAY BE SUBSTITUTED WITH EQUIVALENT MANUFACTURERS AND MODELS BY THE MECHANICAL CONTRACTOR WITH ENGINEERING APPROVAL.						
MARK	MANF.	MODEL #	FRAME TYPE	PANEL SIZE	NECK SIZE	COMMENTS
TG1	PRICE	510Z	WALL	20X4	----	1
COMMENTS						
1	INSTALL ON BOTH SIDES OF WALL					

GENERAL NOTES

- A. DRAWINGS ARE BASED ON RECORD DRAWINGS (NOT GUARANTEED TO BE CURRENT AT TIME OF CONSTRUCTION) AND FIELD INVESTIGATION WITH DEMOLITION. EXAMINE PLANS AND VISIT THE SITE TO FIELD VERIFY ACTUAL CONDITIONS AND COORDINATE SAME WITH OTHER TRADES PRIOR TO STARTING WORK.
- B. A LICENSED AND BONDED CONTRACTOR SHALL BE USED FOR INSTALLATION. ALL LOCAL CODES SHALL BE FOLLOWED DURING INSTALLATION.
- C. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL REMOVED EQUIPMENT AND MATERIAL.
- D. CONTRACTOR TO VERIFY AND COORDINATE STRUCTURAL SUPPORT AND OPENINGS IN FLOOR, ROOF, AND WALLS.
- E. THE CONTRACTOR MUST VISIT THE SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS CONDITIONS TO BE MET PRIOR TO BID SUBMISSION. LACK OF A THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION.
- F. A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.

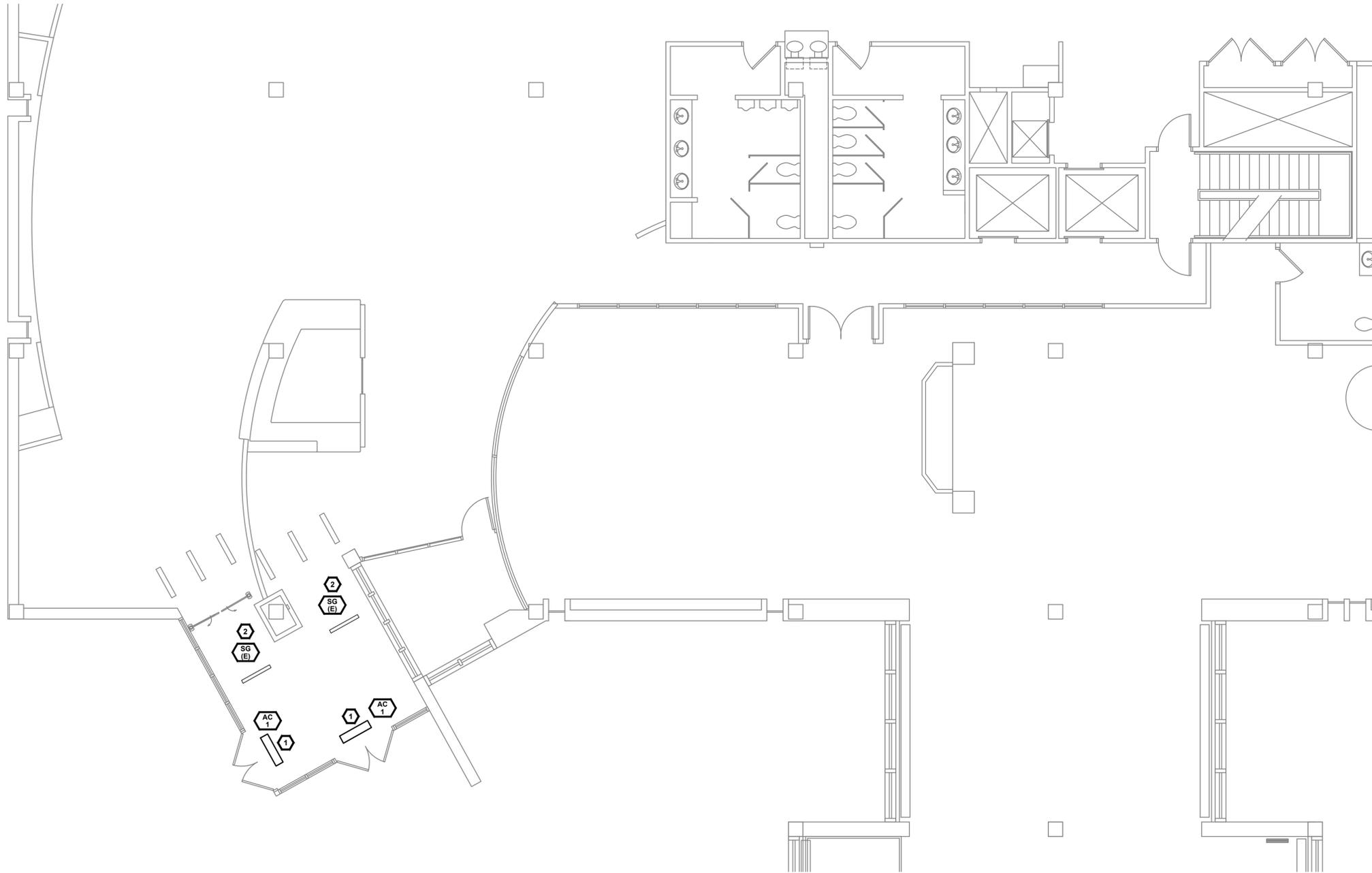
KEYNOTES

- ① CONTRACTOR TO VERIFY EXISTING SUPPLY DIFFUSERS ARE PROVIDING 400 CFM EACH. BALANCE TO 400 CFM IF NEEDED.
- ② CONTRACTOR TO REMOVE EXISTING TRANSFER GRILLES AND INSTALL NEW TRANSFER GRILLES IN NEW SOFFIT. SOFFIT DETAIL 2 ON ARCHITECTURAL SHEET A1.2.



10186 MT. LINCOLN DR. PEYTON, CO 80831
 INFO@CHARTANODEG.COM
 719.257.2091






MECHANICAL PLAN - MAIN FLOOR
 SCALE: 3/16" = 1'-0"

GENERAL NOTES

- A. DRAWINGS ARE BASED ON RECORD DRAWINGS (NOT GUARANTEED TO BE CURRENT AT TIME OF CONSTRUCTION) AND FIELD INVESTIGATION WITH DEMOLITION. EXAMINE PLANS AND VISIT THE SITE TO FIELD VERIFY ACTUAL CONDITIONS AND COORDINATE SAME WITH OTHER TRADES PRIOR TO STARTING WORK.
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- F. A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.

KEYNOTES

- 1 INSTALL NEW AIR CURTAINS ABOVE DOUBLE DOORS. COORDINATE PLACEMENT WITH EXISTING CEILING. AIR CURTAIN SHALL HAVE AUTOMATIC CONTROLS THAT WILL OPERATE THE AIR CURTAIN WITH THE OPENING AND CLOSING OF THE DOORS.
- 2 CONTRACTOR TO DETERMINE WHAT THE PRECONSTRUCTION AIR FLOW IS FOR THE EXISTING SUPPLY GRILLES. NOTIFY ENGINEER OF RECORD FINDINGS FOR FURTHER ACTIONS.



10186 MT. LINCOLN DR. PEYTON, CO 80831
 INFO@CHARTANOENG.COM
 719.257.2091



AIR CURTAIN SCHEDULE										
THE EQUIPMENT SCHEDULED BELOW MAY BE SUBSTITUTED WITH EQUIVALENT MANUFACTURERS AND MODELS BY THE MECHANICAL CONTRACTOR WITH ENGINEERING APPROVAL.										
MARK	MANF.	DESCRIPTION	MODEL #	CFM	ELECTRICAL				WEIGHT	COMMENTS
					VOLT	PHASE	MCA	MOCP		
AC-1	BERNER	AIR CURTAIN	AC08-E-1060A	1824	120	1	8.5	15	116	1
COMMENTS										
1	INSTALL PER MANUFACTURER'S REQUIREMENTS									

PANEL 1BL										
VOLTAGE (L-N):			120			ENCLOSURE TYPE:			NEMA 1	
VOLTAGE (L-L):			208			MOUNTING:			FLUSH	
PHASES, WIRES:			3 PHASE, 4 WIRE			AIC RATING:			10,000	
MINIMUM BUS AMPACITY (A):			225A			PROJECT:			PPLD	
MAIN O.C. DEVICE (A):			200A							
CKT NO	DESCRIPTION	CAT	BKR	PHASE LOADS (VA)			BKR	CAT	DESCRIPTION	CKT NO
				A	B	C				
1	RECEPTACLES	R	20/1	540	1500		20/1	E	CHILDRENS	2
3	RECEPTACLES	R	20/1		540	1500	20/1	E	CHILDRENS	4
5	AIR CURTAIN	E	20/1			1020	1500	20/1	E	CHILDRENS
7	AIR CURTAIN	E	20/1	1020	180			20/1	R	RECEPTACLES
9	UNKNOWN LOAD	E	20/1		1500			20/1		SPARE
11	UNKNOWN LOAD	E	20/1			1500	1500	20/1		SPARE
13	UNKNOWN LOAD	E	20/1	1500	1500			20/1	E	UNKNOWN LOAD
15	UNKNOWN LOAD	E	20/1		1500	1500		20/1	E	UNKNOWN LOAD
17	CHILDREN EAST	E	20/1			1500	1500	20/1	2	UNKNOWN LOAD
19	UNKNOWN LOAD	E	20/1	1500	1500			20/1	E	COPIER
21	EXHAUST FAN	E	20/1		1500	1500		20/1	E	UNKNOWN LOAD
23	UNKNOWN LOAD	E	20/1			1500		20/1		SPARE
25	SPARE	20/1			1500			20/1	E	UNKNOWN LOAD
27	SPARE	20/1				1500		20/1	E	UNKNOWN LOAD
29	SPARE	20/1					1500	20/1	E	UNKNOWN LOAD
30										

CATEGORY	A KVA	B KVA	C KVA	TOTAL	DEMAND FACTOR	DEMAND KVA	GENERAL NOTES
RECEPTACLE (R)	0.72	0.54	0.00	1.26	1.00	1.26	A BOLD DENOTES NEW LOAD
LIGHTING (L)	0.00	0.00	0.00	0.00	0.50	0.00	
MOTOR (M)	0.00	0.00	0.00	0.00	1.25	0.00	
EQUIPMENT (E)	10.02	10.50	10.02	30.54	1.00	30.54	
SPECIALTY (S)	0.00	0.00	0.00	0.00	1.25	0.00	
TOTAL LOAD:	10.74	11.04	10.02	31.80			
				MIN. PANEL AMP:	88.27		

NEW LOADS ADDED TO THIS SCOPE OF WORK	
LOAD TYPE	WATTS
RECEPTACLES	1260
AIR CURTAINS	2040

TOTAL NEW LOAD ADDED TO PANEL "1BL" (W)	3300
TOTAL NEW LOAD (A)	9.2
PERCENTAGE OF NEW LOAD TO PANEL "1BL" (%)	4.6

GENERAL NOTES

- DO NOT SCALE FROM THESE DRAWINGS. DIMENSIONS SHALL BE TAKEN FROM ARCHITECTURAL DRAWINGS.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED ONLY TO DEFINE THE BASIC FUNCTIONS REQUIRED FOR PROPER OPERATION OF THE SYSTEMS.
- NOT ALL EXISTING ELECTRICAL EQUIPMENT AND ACCESSORIES ARE NECESSARILY SHOWN ON THIS DRAWING, BUT WHAT IS DEEMED NECESSARY TO SHOW INTENT OF WORK INVOLVED FOR THIS PROJECT. REFER TO ALL PLANS, SECTIONS, DETAILS, SCHEDULES, AND SPECIFICATIONS FOR COMPLETE SYSTEM REQUIREMENTS.
- SCOPE OF WORK CONSISTS OF FURNISHING LABOR, MATERIALS, AND EQUIPMENT FOR THE INSTALLATION. IT ALSO INCLUDES PLACING INTO OPERATION COMPLETE AND OPERABLE SYSTEMS AS SPECIFIED AND SHOWN. ACCESSORIES REQUIRED FOR PROPER OPERATION OF THE SYSTEMS, EVEN THOUGH NOT SPECIFICALLY INDICATED, SHALL BE INCLUDED AND INSTALLED.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, AND LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL ELECTRICAL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THESE RULES, REGULATIONS, AND ORDINANCES AT NOT ADDITIONAL COST. THESE CODES REPRESENT THE MINIMUM ACCEPTABLE REQUIREMENTS, THEREFORE, WHERE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF THESE CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN.
- ELECTRICAL LAYOUT IS BASED ON ARCHITECTURAL DRAWINGS AVAILABLE AT THE TIME OF THE DESIGN. AS FIELD CHANGES MAY OCCUR, CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATION OF ALL EXISTING ELECTRICAL EQUIPMENT AS WELL AS EXISTING CONDITIONS FOR DEFECTS PRIOR TO INSTALLATION. ELECTRICAL CONTRACTOR SHALL NOTIFY BUILDER OF ANY REQUIRED CHANGES OR ALTERATIONS AND SHALL TAKE RESPONSIBILITY FOR VERIFYING THE INTEGRITY OF THE CHANGES WITH THE ENGINEER OF RECORD.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS AS WELL AS ALL PERTINENT SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL SCOPE OF WORK. IN ADDITION, THE ELECTRICAL CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS AND CHANGES THE OWNER MAY CONSIDER PART OF THIS SCOPE AND MAY NOT BE SPECIFIED HEREIN. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO WORK CLOSELY WITH ALL TRADES IN ORDER TO ENSURE A FULLY COORDINATED INSTALL.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THIS DRAWING SET OR BETWEEN THIS SET AND THE RELATED HVAC, FIRE PROTECTION, PLUMBING, STRUCTURAL, CIVIL, ARCHITECTURAL AND SITE ENGINEERING DRAWINGS, OR BETWEEN THIS SET AND EXISTING FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT, AND ENGINEER OF RECORD PRIOR TO BID SUBMITTAL.
- BRANDS AND MODELS OF EQUIPMENT SHOWN ON THE SCHEDULES ARE GIVEN AS STANDARD. BRANDS AND MODELS OF EQUAL CAPACITY AND QUALITY MAY BE USED WITH ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER FIT AND OTHER ASPECTS RELATED TO THE SUBSTITUTION. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
- RACEWAY SYSTEMS ARE SHOWN DIAGRAMMATICALLY. ACTUAL LOCATION AND ROUTING OF ALL, SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR TO SUIT FIELD CONDITIONS. ALL RACEWAYS IN EXPOSED EXTERIOR APPLICATIONS SHALL BE RIGID METAL CONDUIT OR GALVANIZED RIGID CONDUIT WITH A MINIMUM RACEWAY SIZE OF 3/4", UNLESS NOTED. ALL RACEWAYS IN CONCEALED INTERIOR APPLICATIONS SHALL BE ELECTRICAL METALLIC TUBING, ELECTRICAL NONMETALLIC TUBING, OR RIGID NONMETALLIC CONDUIT WITH A MINIMUM RACEWAY SIZE OF 3/4", UNLESS NOTED. ALL RACEWAY FITTINGS SHALL BE COMPATIBLE AND SUITABLE FOR USE AND LOCATION. CONCEAL ALL CONDUITS WITHIN FINISHED WALLS, CEILINGS, AND FLOORS WHEREVER POSSIBLE, UNLESS NOTED. RACEWAYS SHALL BE RAN PARALLEL WITH, OR AT RIGHT ANGLE TO WALLS.
- ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE LISTED OR LABELED BY A LISTED AUTHORITY AS ALLOWED BY THE THE AUTHORITY HAVING JURISDICTION.
- THE GROUNDING AND BONDING SYSTEM SHALL COMPLY WITH 2020 NEC ARTICLE 250.
- ALL CONDUCTORS SHALL BE TYPE RHW, THHW, THW, THWN, AND XHHW FOR FEEDERS AND BRANCH CIRCUITS. THE INSTALLATION OF THE CONDUCTORS SHALL COMPLY WITH 2020 NEC ARTICLE 310.
- ALL ELECTRICAL PENETRATIONS THROUGH RATED WALLS AND CEILINGS SHALL BE SEALED IN ACCORDANCE WITH 2021 INTERNATIONAL BUILDING CODE CHAPTER 7.
- ALL NEW PANELBOARDS AND SWITCHBOARDS SHALL BE OF THE SAME MANUFACTURER AND HAVE LOCKING DOORS AND BE KEYPED THE SAME, UNLESS NOTED. ALL PANELBOARDS SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT. PROVIDE TYPED UPDATED PANEL DIRECTORY TO BE MOUNTED ON INSIDE OF PANEL DOOR COVERS. DIRECTORY SHALL REFLECT ALL ADDITIONS OR MODIFICATIONS TO EXISTING PANELS AND SHALL REFLECT ACTUAL "AS-BUILT" CONDITIONS.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, ARCHITECT, AND ENGINEER AS REQUIRED SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS. REQUEST FOR SHUT-DOWNS SHALL BE SUBMITTED TO THE PROPER CHANNELS WITH ADEQUATE NOTICE IN ADVANCE FOR APPROVAL BY OWNER.
- ALL 120V AND 277V DEVICES SHALL HAVE A DEDICATED NEUTRAL.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS TO INCLUDE ACCURATE CONDUIT AND DEVICE LOCATIONS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM THE BID DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE MAINTENANCE INSTRUCTIONS FOR EQUIPMENT AND SYSTEMS THAT REQUIRE PREVENTATIVE MAINTENANCE AS WELL AS ANY WRITTEN WARRANTIES COVERING MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE PROJECT.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	(R)	RELOCATED
AFG	ABOVE FINISHED GRADE	GND	GROUND	XFMR	TRANSFORMER
AIC	AMP INTERRUPTING CAPACITY	HP	HORSEPOWER	U.C.	UNDER COUNTER
AL	ALUMINUM	KVA	KILOVOLT-AMPS	V	VOLTS
BKR	BREAKER	KW	KILOWATT	VA	VOLT AMPS
C	CONDUIT	MCA	MIN. CIRCUIT AMPACITY	W	WATTS
CKT	CIRCUIT	MCB	MAIN CIRCUIT BREAKER	WP	WEATHERPROOF
CU	COPPER	MLO	MAIN LUGS ONLY		
DWG	DRAWING	O.C.	OVER COUNTERTOP		
(E)	EXISTING	PNL	PANELBOARD		

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	20A DUPLEX RECEPTACLE 18" AFF UNLESS NOTED
	20A GFI DUPLEX RECEPTACLE 18" AFF UNLESS NOTED
	20A QUAD DUPLEX RECEPTACLE 18" AFF UNLESS NOTED
	208V OR SPECIALITY RECEPTACLE 18" AFF UNLESS NOTED
	FLOOR MOUNTED DUPLEX RECEPTACLE
	DATA RECEPTACLE 18" AFF UNLESS NOTED
	FLOOR MOUNTED DATA RECEPTACLE
	SINGLE POLE LIGHT SWITCH 42" AFF UNLESS NOTED
	THREE WAY LIGHT SWITCH 42" AFF UNLESS NOTED
	FOUR WAY LIGHT SWITCH 42" AFF UNLESS NOTED
	DIMMER SINGLE POLE LIGHT SWITCH 42" AFF UNLESS NOTED
	WALL MOUNT OCCUPANCY SENSOR 42" AFF UNLESS NOTED (D) DENOTES DIMMER IF APPLICABLE
	CEILING MOUNT OCCUPANCY SENSOR
	JUNCTION BOX
	TV OUTLET
	PANELBOARD (SURFACE OR FLUSH MOUNTED)
	LINEAR STRIP FIXTURE - LETTER DENOTES FIXTURE TYPE
	2X2 LIGHT FIXTURE - LETTER DENOTES FIXTURE TYPE
	2X4 LIGHT FIXTURE - LETTER DENOTES FIXTURE TYPE
	CAN LIGHT FIXTURE - LETTER DENOTES FIXTURE TYPE
	EMERGENCY EXIT SIGN
	EMERGENCY LIGHTING FIXTURE
	CONDUIT HOME-RUN TO DESIGNATED PANEL NO HATCHES INDICATES ONE HOT, ONE NEUTRAL, AND ONE GROUNDING CONDUCTOR
	GROUNDING CONDUCTOR
	NEUTRAL CONDUCTOR
	HOT OR SWITCH LEG CONDUCTOR

NOTE: WHEN ALL SYMBOLS REPRESENTED ARE SHOWN ON PLANS IN A LIGHT LINE WEIGHT DENOTES EXISTING DEVICES. DASHED DENOTES DEMOLISHED.

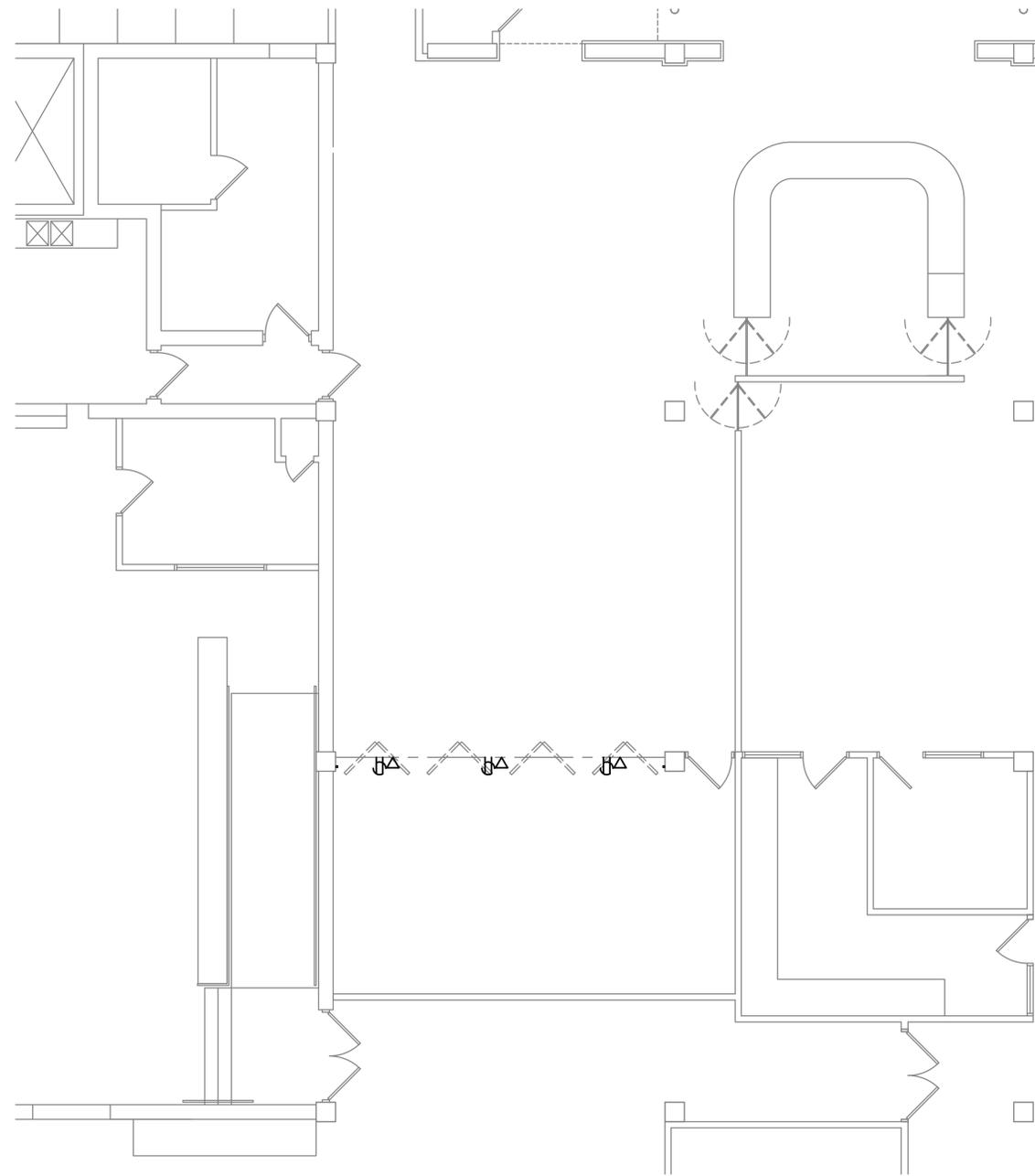
SHEET INDEX

SHEET NUMBER	
E001	GENERAL INFORMATION AND SCHEDULES
E110	ELECTRICAL PLAN - LOWER FLOOR
E111	ELECTRICAL PLAN - MAIN FLOOR



10186 MT. LINCOLN DR. PEYTON, CO 80831
 INFO@CRESTANOENGINEERING.COM
 719.257.2091





 **ELECTRICAL PLAN - LOWER FLOOR**
SCALE: 3/16" = 1'-0"

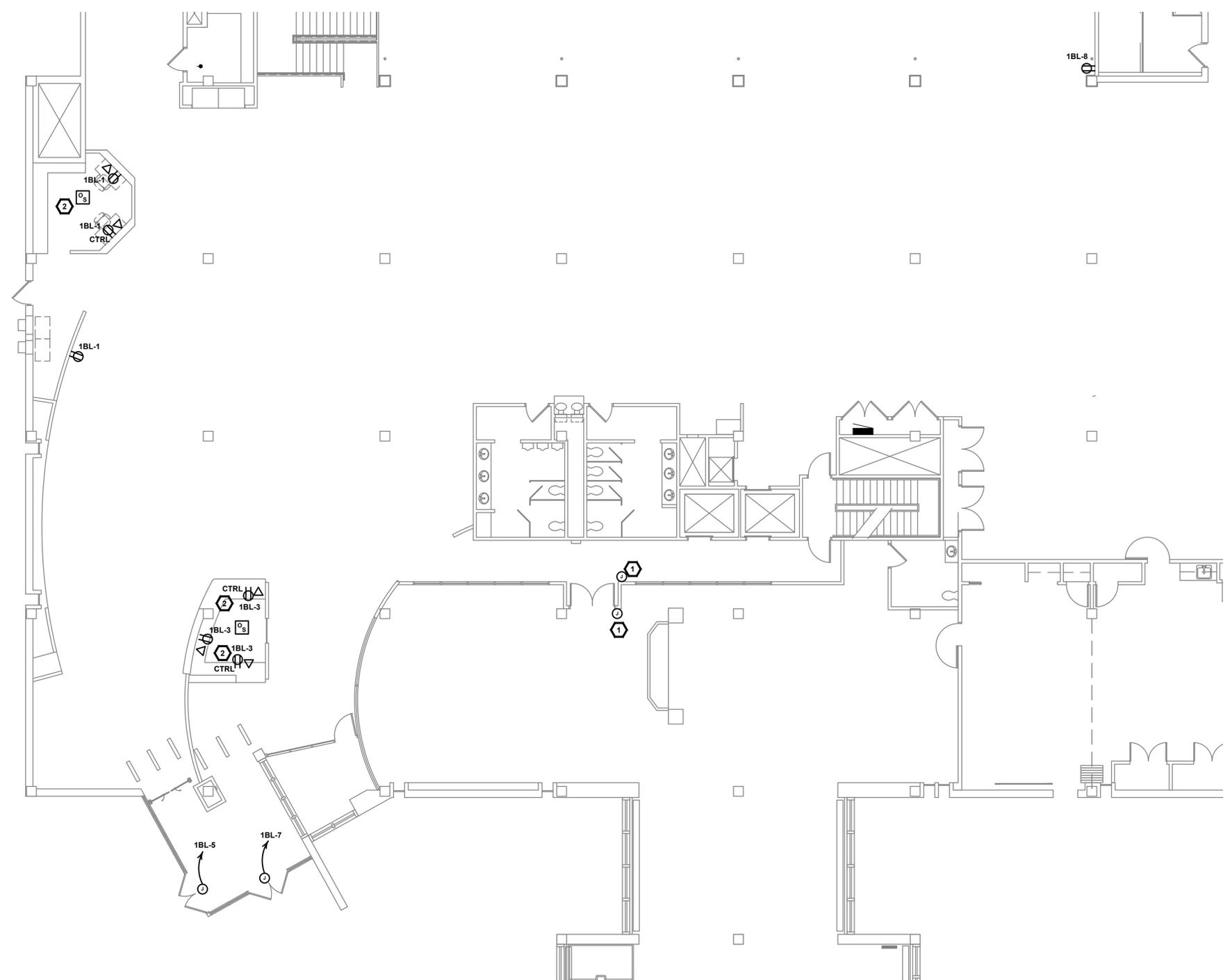
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10186 MT. LINCOLN DR. PEYTON, CO 80831
INFO@CHARTANDEG.COM
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- E. A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.
- F. ELECTRICAL DESIGN HAS A MAXIMUM VOLTAGE DROP OF 5% PER 2021 IECC C405.10.

KEYNOTES

- 1 CONTRACTOR TO PROVIDE ELECTRICAL CONNECTION FOR NEW ADA DOOR OPERATOR.
- 2 RECEPTACLES IN THIS SPACE ARE TO BE FULLY AUTOMATICALLY CONTROLLED PER 2021 IECC C405.11 AND LABELED PER NEC 406.3(E) VIA OCCUPANCY SENSOR, PROVIDE MANUAL OVERRIDE SWITCH.



10186 MT. LINCOLN DR. PEYTON, CO 80831
 INFO@CHARTANDEG.COM
 719.257.2091



ELECTRICAL PLAN - MAIN FLOOR
 SCALE: 1/8" = 1'-0"