Parkhill

PROJECT MANUAL

BSA HOSPITAL SYSTEM

GI Lab Renovation

Amarillo, Texas

September | 2025

Parkhill Project # 4300724

TABLE OF CONTENTS

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

00 11 13	*Request for Bids*	*Revised in Addendum 001*
00 21 13	Instruction to Bidders	
00 31 00	*Available Project Information*	*Revised in Addendum 001*
00 41 00	Bid Form	
00 52 00	Agreement Form	
	Construction Project Contracting Requirements	
00 54 10	Weather Table (Amarillo)	

DIVISION 01 - GENERAL REQUIREMENTS

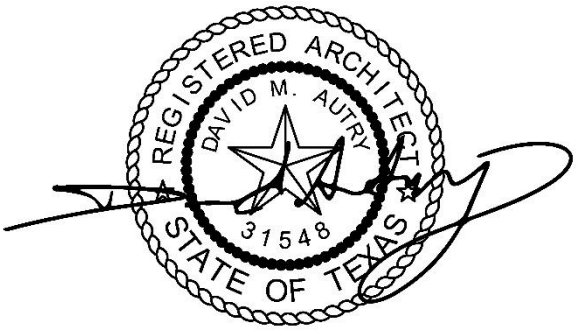
01 10 00	Summary
01 20 00	Price and Payment Procedures
01 25 00	Substitution Procedures
01 30 00	Administrative Requirements
	RFI Form
	AIA Document C106-2022 Digital Data Licensing Agreement
01 33 00	Submittal Procedures
01 40 00	Quality Requirements
01 50 00	Temporary Facilities and Controls
01 60 00	Product Requirements
01 70 00	Execution and Closeout Requirements
01 73 00	Execution

DIVISION 02 - EXISTING CONDITIONS

02 41 19	Selective Demolition

DIVISIONS 03 - 48

Not Used



09/02/2025

DOCUMENT 00 11 13 - REQUEST FOR BIDS

1.1 OWNER

BSA Hospital System
1600 Wallace Blvd.
Amarillo, Texas 79106

1.2 PROJECT

BSA Hospital System
GI Lab Renovation
Amarillo, Texas

1.3 ARCHITECT

Parkhill
800 S. Polk, Suite 200
Amarillo, Texas 79101
806.376.8600
Attn: David Autry, RA

1.4 DESCRIPTION

A. BSA Health System will receive Bids for General Construction work including mechanical, plumbing, electrical, and architectural work and for furnishing of all labor, materials, services, and equipment necessary for and incidental to the Project as called for on the Drawings and in the Project Manual.
B. Bidders may submit a Bid for the Project either individually or combined as indicated on the Bid Form.
C. Submitted Bids will be reviewed by BSA Health System and selected Contractor will be contacted directly for Contract Award.

1.5 BASIS OF BIDS

A. Bids shall be made on a guaranteed maximum price basis on the attached Bid Form.

1.6 SUBMISSION OF BIDS

A. Address to: Parkhill
800 S. Polk, Suite 200
Amarillo, Texas 79101
Attn: David Autry, RA
B. Location: 800 S. Polk, Suite 200, Amarillo, Texas 79101
C. Date: September 29, 2025
D. Time: 05:00 p.m., local time
E. Bids received after the submission time on the due date will not be accepted and will be returned unopened to Bidder.

1.7 BID DOCUMENTS

A. Bid Documents may be examined at the Architect's office and at the following plan rooms:
   1. Associated General Contractors
      1707 W. 8th Street
      Amarillo, Texas 79105
      806.374.1954
      sandy@agcamarillo.com
   2. Dodge Data & Analytics
      806.794.2722
      Kim.mccallon@construction.com
   3. AGC Plan Room
      4500 W Illinois., Suite 201
      Midland, Texas 79703
      432.520.2220
      midland@wtagc.org

B. Bidders may secure copies of Bid Documents as follows:
   1. By contacting Kimberlee Biggs at kbiggs@parkhill.com or 806.473.2200. Additional information can be found at https://parkhill.com/projects-for-bid.
   2. Download documents (.PDF file extension format) from Parkhill's Info Exchange website after registering as a plan holder with issuing Parkhill office. There is no cost for this option.

C. Only Bidders who obtain Bid Documents through Parkhill will be registered as a document holder (plan holder) and will therefore automatically receive addenda if/when issued.

1.8 ADDENDA

A. Addenda will be issued to document holders by one of the two following methods:
   1. E-mail notification to document holder with link to download addenda from Parkhill's Info Exchange website.
   2. For document holders not having e-mail address, addenda may be picked up at the issuing Parkhill office or mailed via the United States Postal Service (USPS).

B. Addenda will not be faxed to document holders.

1.9 PRE-BID CONFERENCE

A. "An optional pre-bid conference will be held on September 15th, 2025 in the main lobby of the BSA Hospital at 1:00 p.m. local time at the request of prospective bidders."

1.10 BID SECURITY

A. Bid Security is not required.

1.11 OPENING OF BIDS

A. Bids will be privately opened immediately after closing of bid time on September 29, 2025.

1.12 FORMALITIES

A. BSA Health System reserves the right to waive irregularities and to reject all Bids.

1.13 APPLICABLE GOVERNING LAWS AND REGULATIONS

A. In accordance with the Instruction to Bidders, all Bidders shall comply with State Labor Laws concerning wage rates, Texas Family Code concerning affidavit of eligibility to submit Bids, non-discrimination in employment, and employment of historically underutilized businesses.

END OF SECTION

DOCUMENT 00 21 13 - INSTRUCTIONS TO BIDDERS

ARTICLE 1 - DEFINITIONS

1.1 Bidding Documents include the Bidding Requirements and the proposed Contract Documents. The Bidding Requirements consist of the Request for Bids, Instructions to Bidders, the Bid form, and other sample Bidding and Contract forms. The proposed Contract Documents consist of the form of Agreement between Owner and Contractor, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, and all Addenda issued prior to execution of the Contract.

1.2 Definitions set forth in the General Conditions of the Contract for Construction, AIA Document A201, or in other Contract Documents are applicable to the Bidding Documents.

1.3 Addenda are written or graphic instruments issued by Architect prior to the execution of the Contract which modify or interpret the Bidding Documents by additions, deletions, clarifications, or corrections.

1.4 A Bid is a complete and properly signed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base.

1.6 A Bidder is a person or entity who submits a Bid.

1.7 A sub-bidder is a person or entity who submits a Bid to a Bidder for materials, equipment or labor for a portion of the Work.

ARTICLE 2 - BIDDER'S REPRESENTATIONS

2.1 The Bidder, by making a Bid, represents that:

2.1.1 The Bidder has read and understands the Bidding Documents and the Bid is made in accordance therewith.

2.1.2 The Bidder has read and understands the Bidding Documents or contract documents, to the extent that such documentation relates to the Work for which the Bid is submitted.

2.1.3 The Bidder has visited the site, become familiar with local conditions under which the Work is to be performed and has correlated the Bidder's personal observations with the requirements of the proposed Contract Documents.

2.1.4 The Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception.

2.1.5 By submitting Bid, each Bidder agrees to waive any claim it has or may have against Owner, Architect, Engineer, and their respective employees and offices, arising out of or in connection with the administration, evaluation, or recommendation of any bid; waiver of any requirements under the Bid Documents; or the Contract Documents; acceptance or rejection of any Bids; and award of the Contract.

ARTICLE 3 - BIDDING DOCUMENTS

3.1 COPIES

3.1.1 Bidders may obtain complete sets of the Bid Documents from Parkhill as, stated in the Request for Bids.

3.1.2 Bidding Documents will not be issued directly to sub-bidders or others unless specifically offered in Request for Bids.

3.1.3 Bidders shall use complete sets of Bidding Documents in preparing Bids; neither Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

3.1.4 In making copies of the Bidding Documents available on the above terms, Owner and Architect do so only for the purpose of obtaining Bids on the Work and do not confer a license or grant permission for any other use of the Bidding Documents.

3.2 INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

3.2.1 The Bidder shall carefully study and compare the Bidding Documents with each other, and with other work being bid concurrently or presently under construction to the extent that it relates to the Work for which the Bid is submitted, shall examine the site and local conditions, and shall at once report to Architect errors, inconsistencies, or ambiguities discovered.

3.2.2 Bidders and sub-bidders requiring clarification or interpretation of the Bidding Documents shall make a written request which shall reach Architect at least seven days prior to the date for receipt of Bids.

3.2.3 Interpretations, corrections and changes of the Bidding Documents will be made by Addendum. Interpretations, corrections, and changes of the Bidding Documents made in another manner will not be binding, and Bidders shall not rely upon them.

3.3 SUBSTITUTIONS

3.3.1 The materials, products, and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.

3.3.2 No substitution will be considered prior to receipt of Bids unless written request for approval has been received by Architect at least 7 days prior to the date for receipt of Bids. Such requests shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings,

performance and test data, and other information necessary for an evaluation. An item by item (line by line) comparison of each item listed in the Specification shall be compiled and submitted comparing specified material/product with proposed substitution. A statement setting forth changes in other material, equipment, or other portions of the Work including changes in the work of other contracts that incorporation of the proposed substitution would require shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. Architect's approval is for manufacturer only, and not specific material, system, or equipment. Approved manufacturer's material, system, or equipment is subject to additional and final review after award of contract and submitted for Architect's approval during Construction Administration submittal/Shop Drawing review process. Architect's decision of approval or disapproval of a proposed substitution shall be final.

3.3.3 If Architect approves a proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum. Bidders shall not rely upon approvals made in any other manner.

3.3.4 No substitutions will be considered after the Contract award.

3.4 ADDENDA

3.4.1 Addenda will be issued via Architect’s Newforma® Info Exchange website or via mail (if internet service is not available) to all who are known by the issuing office to have received a complete set of Bidding Documents.

3.4.2 Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for that purpose.

3.4.3 No Addenda will be issued later than 4 days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

3.4.4 Only Bidders who obtain Bidding Documents through Parkhill. will be registered as a document holder (plan holder) and will therefore automatically receive addenda if/when issued.

3.4.5 Each Bidder shall ascertain, prior to submitting a Bid, that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

ARTICLE 4 - BIDDING PROCEDURES

4.1 FORM AND STYLE OF BIDS

4.1.1 Bids shall be submitted on forms identical to the Bid Form included with the Bidding Documents.

4.1.2 All blanks on the Bid Form shall be filled in completely. Where information for the blank to be filled in is not applicable, use abbreviation ‘NA.’

4.1.3 Where so indicated by the makeup of the Bid form, sums shall be expressed in both words and figures, and in case of discrepancy between the two, the amount written in words shall govern.

4.1.4 Interlineations, alterations and erasures must be initialed by the signer of the Bid.

4.1.5 Each copy of the Bid shall include the legal name of the Bidder and a statement that the Bidder is a sole proprietor, partnership, corporation, or other legal entity. Each copy shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further give the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current power of attorney attached certifying the agent's authority to bind the Bidder.

4.1.6 All costs associated with the preparation, submission, and delivery of Bid is the sole responsibility of the Bidder.

4.2 SUBMISSION OF BIDS

4.2.1 All copies of the Bid, and other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed as indicated in the Request for Bids and shall be identified with the Project name, the Bidder's name and address and, if applicable, the designated portion of the Work for which the Bid is submitted. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof.

4.2.2 Bids shall be deposited at the designated location prior to the time and date for receipt of Bids. Bids received after the time and date for receipt of Bids will be returned unopened.

4.2.3 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

4.2.4 Oral, telephonic, or telegraphic Bids are invalid and will not receive consideration.

4.2.5 The Bidder shall be responsible for all costs associated with preparing the Bid. Owner and Architect shall not incur any costs associated with the production and printing of the bid and post information.

4.2.6 The Bidder shall prepare 6 hard copies and 1 copy in pdf on a USB flash drive of his bid which will be sealed in an opaque envelope.

4.2 MODIFICATION OR WITHDRAWAL OF BID

4.2.1 A Bid may not be modified, withdrawn, or canceled by the Bidder during the stipulated time period following the time and date designated for the receipt of Bids, and each Bidder so agrees in submitting a Bid.

4.2.2 Prior to the time and date designated for receipt of Bids, a Bid submitted may be modified or withdrawn by notice to the party receiving Bids at the place designated for receipt of Bids. Such notice shall be in writing over the signature of the Bidder or by telegram; if by telegram, written confirmation over the signature of the Bidder shall be mailed and postmarked on or before the date and time set for receipt of Bids. A change shall be so worded as not to reveal the amount of the original Bid.

4.2.3 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids provided that they are then fully in conformance with these Instructions to Bidders.

ARTICLE 5 - CONSIDERATION OF BIDS

5.1 OPENING OF BIDS

5.1.1 As stated in the Request for Bids, the properly identified Bids, received on time, will be opened privately. An abstract of the same information may, at the discretion of Owner, be made available to the Bidders within a reasonable time.

5.2 REJECTION OF BIDS

5.2.1 Owner shall have the right to reject any, or all Bids, or by other data required by the Bidding Documents, or reject a Bid which is in any way incomplete or irregular.

5.3 ACCEPTANCE OF BID (AWARD)

5.3.1 It is the intent of Owner to award a Contract to the lowest responsible Bidder provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. Owner shall have the right to waive informalities or irregularities in a Bid received and to accept the Bid which, in Owner's judgment, is in Owner's own best interests. The issuance of this request for bids does not obligate Owner to enter into a contract.

5.3.2 Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the low Bidder on the basis of the sum of the Base Bid and Alternates accepted.

5.3.3 Each bidder agrees to waive any claim it has or may have against Owner, Architect, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any Bid.

ARTICLE 6 - POST-BID INFORMATION

6.1 OWNER'S FINANCIAL CAPABILITY

6.1.2 Owner shall, at the request of the Bidder to whom an award of a Contract is under consideration and no later than seven days prior to the expiration of the time for withdrawal of Bids, furnish to the Bidder reasonable evidence that financial arrangements have been made to fulfill Owner's obligations under the Contract. Unless such reasonable evidence is

furnished, the Bidder will not be required to execute the Agreement between Owner and Contractor.

6.2 SUBMITTALS

6.2.1 The Bidder will be required to establish, to the satisfaction of Architect and Owner, the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

6.2.2 Prior to the award of the Contract, Architect will notify the Bidder in writing if either Owner or Architect, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If Owner or Architect has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, (1) withdraw the Bid, or (2) submit an acceptable substitute person or entity, with an adjustment in the Base Bid or Alternate Bid to cover the difference in cost occasioned by such substitution. Owner may, accept the adjusted Bid price or disqualify, the Bidder. In the event of either withdrawal or disqualification, Bid Security will not be forfeited.

6.2.3 Persons and entities proposed by the Bidder and to whom Owner and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of Owner and Architect.

ARTICLE 8 - INSURANCE

8.1 INSURANCE REQUIREMENTS

8.1.1 The Bidder shall furnish insurance in the types and amount of coverage required, and shall be secured from sources as defined in Owner/Contractor Agreement.

8.1.2 The cost shall be included in the Bid.

8.2 TIME OF DELIVERY AND FORM OF INSURANCE

8.2.1 The Bidder shall deliver the required certificates of insurance coverage to Owner upon its execution of the Contract.

8.2.2 The insurance certificate shall be written on a form acceptable to Owner. Insurance shall be written in the amount required by the Contract.

8.2.3 The insurance certificates shall be dated on or before the date of the Contract.

ARTICLE 9 - FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

9.1 FORM TO BE USED

9.1.1 The Agreement for the Work will be written on Owner provided Agreement form.

ARTICLE 10 - APPLICABLE GOVERNING LAWS AND REGULATIONS

10.1 WAGE RATES

10.1.1 All Contractors must comply with State Labor Laws as required by current amended provisions of Section 2 of Article 5159a, Texas Civil Statutes. Contractor is required to pay not less than the specified minimum wage rates of the various applicable classes of labor.

10.1.2 Contractor shall forfeit as a penalty to the State, sixty dollars ($60.00) for each laborer, workman or mechanic employed for each calendar day or portion thereof, if such laborer, workman or mechanic is paid less than the said stipulated rates for any work done under said Contract, by Contractor or by their subcontractor.

END OF SECTION

SECTION 00 31 00 – AVAILABLE PROJECT INFORMATION

PART 1 - GENERAL

1.1 SUMMARY

A. Related Requirements:
1. Division 01 Specification Sections apply to Work of this Section.

1.2 INFORMATION

A. Timeline for Construction
1. BSA Health System anticipates start of construction for this Project in Q4 2025 or Q1 of 2026.

B. Project Phasing Information
1. This Project will need to be phased to allow for continual operation throughout the duration of construction and demolition. Refer to Construction Documents for further information and requirements.

C. Asbestos Survey
1. A limited asbestos survey has been performed for this location. The results from this survey are available upon request.

1.3 RESPONSIBILITY

A. Architect and Owner do not guarantee continuity of conditions and assume no responsibility for variations of subsoil quality or conditions.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

DOCUMENT 00 41 00 - BID FORM

Date: _____ 20___

Jerome Brooks, COO
BSA Hospital System
1600 Wallace Blvd.
Amarillo, Texas 79106

Dear Sir:

The undersigned, having carefully examined the Specifications, Drawings, and related documents entitled:

BSA Hospital System
GI Lab Renovation
Amarillo, Texas

all as prepared by Parkhill 800 S. Polk Street, Suite 200, Amarillo, Texas 79101; 806.376.8600, as well as having attended a mandatory pre-bid conference and made an on-site inspection of the premises and all other conditions affecting the cost and/or execution of the Work, proposes to furnish all materials, labor, and equipment necessary to complete the Work in accordance with said documents, of which this Bid is a part, for the following sum:

I. TOTAL BID:_____Dollars ($_____)

TOTAL BID INCLUDING BASE:_____

_____Dollars ($_____)

(**Note:** All amounts shall be shown in both written and figure form. In case of discrepancy between the written amount and the figure, the written amount will govern. For alternates, check whether it is an add, deduct, or no change.)

We have included, in the Bid sum, all applicable taxes and all material and contingency allowances described in Section 01 20 00 “Price and Payment Procedures.”

The undersigned acknowledges receipt of __addenda to the Drawings and Project Manual as follows:

No. Date No. Date No. Date

No. Date No. Date No. Date

(The Bidder is to fill in I.D. Number and date of each thereby acknowledging receipt of Addenda).
If awarded the contract, the undersigned agrees to commence work under this contract on or before a date to be specified in Written Notice to Proceed and to be substantially complete the Project within _____ (Bidder to fill in days) calendar days from said commencement date, unless modified by change order.

Bidder agrees to pay Owner $500.00 per day, as liquidated damages, for each day the substantial completion of this Project extends beyond the stipulated substantial completion date.
If notified of the acceptance of this Bid within 60 days of the time set for the opening of Bids, Bidder agrees within 10 days of notification, to execute a BSA Hospital System provided Owner and Contractor Agreement for the above Work, for the above stated compensation.

Upon acceptance of this Bid by Owner, Contractor shall furnish, at the time of the signing of the Contract, a PERFORMANCE BOND AND LABOR/MATERIAL PAYMENT BOND, in the amount of 100 percent of the Contract Price. Surety shall meet requirements specified in Owner/Contractor Agreement.

It is understood that Owner reserves the right to accept or reject any and all Bids and to waive all formalities in accordance with State law.

ATTACHMENTS

OPTION 2
In accordance with Instructions to Bidders, the documents will be submitted within 48 hours of Bid opening and are made a condition of the Bid.

Respectfully Submitted,

By:_____

Title:_____

Business Address with Zip Code

(SEAL: If Bid is by Corporation)

_____

_____

_____

_____

Telephone Number with Area Code _____

FAX Number with Area Code _____

Fill in the applicable information:

A Corporation, chartered in the State of _____.

Authorized to do business in the State of Texas.

A Partnership, composed of _____, and

_____and _____.

An Individual operating under the name of _____

_____.

Corporate Seal:

END BID FORM

SECTION 00 52 00 – AGREEMENT FORM

PART 1 - GENERAL

1.1 APPLICABLE DOCUMENT

A. Refer to Owner required Construction Project Contracting Requirements that follows this Section.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

CONSTRUCTION PROJECT CONTRACTING REQUIREMENTS

When awarded a contract, this criteria prescribes policies, standards, and procedures pertaining to prospective contractors' responsibility when entering into a contract with BSA Hospital, LLC. The anticipated contract start date generally determines the timeline for completing the contracting process.

To contract with BSA Hospital, a contractor must meet eligibility requirements for contracting:

i. must maintain appropriate insurance requirements;
ii. submit all required documentation in a timely fashion; and
iii. have the ability to review legally binding commercial construction contracts.

BSA Hospital's Contract Policy:

i. must be willing to enter into a commercial two-party standard construction contract, such as an AIA form that best fits the scope of work;
ii. an AIA contract will be considered should you have one to submit;
iii. submit a proposal based off of an RFP, if required, including the review of architectural/engineering plans;
iv. proposal and contract must be submitted in Word form for legal review;
v. submit a Disclosure Interests Form and pass all federal exclusions checks, one will be provided to you; and
vi. enter into a Non-Disclosure Agreement if required.

Contract required term:

i. Texas law requires withholding of 10% retainage;
ii. Commercial General Liability Insurance requirements: insurance for the project written on an occurrence form with policy limits of not less that $1,000,000 each occurrence, $2,000,000 general aggregate, and $2,000,000 aggregate for products-completed operations hazard, providing coverage for claims;
iii. Indemnity requirements;
iv. Claim Waivers;
v. Warranty requirements for manufacture and workmanship;
vi. Consequential damages; and
vii. Healthcare required provisions, such as, (1) debarment and suspension from participation in federal health care programs, and (2) confidentiality regarding trade secrets, business information, patient data and financial information.

DOCUMENT 00 54 10 - WEATHER TABLE
(AMARILLO, TX)

The number of calendar days indicated on the Bid Form – Document 00 41 00 is the Contract time allowed to complete the Project from Notice to Proceed to Substantial Completion, taking into account the normal weather occurrence as shown in the Table below. Weather occurrences exceeding those listed in the table will be taken into consideration when evaluating a request for extension in Contract time.

MONTH	MEAN NUMBER DAYS PRECIPITATION (0.01" OR MORE)	NORMAL PRECIPITATION (WATER EQUIVALENT) (INCHES)	MEAN NUMBER DAYS SNOWFALL (INCLUDING ICE PELLETS/SLEET) (1.0" OR MORE)	AVERAGE NUMBER OF DAYS THAT MIN. TEMP IS < 40
JANUARY	4	0.73	0	30
FEBRUARY	3	0.34	0	26
MARCH	5	1.28	0	23
APRIL	6	1.40	0	11
MAY	8	1.41	0	2
JUNE	7	2.14	0	0
JULY	7	2.86	0	0
AUGUST	11	3.96	0	0
SEPTEMBER	6	1.31	0	1
OCTOBER	6	2.75	0	10
NOVEMBER	4	0.54	0	22
DECEMBER	3	0.42	0	31
ANNUALLY	70	18.38	5.0	156

This table is based on information from NOAA and measured at the Amarillo Air Terminal, Amarillo, Texas.

Means, normal and averages are based on records covering a period of 5 years from 2016-2020.

SECTION 01 10 00 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Work covered by Contract Documents.
   2. Owner-furnished products.
   3. Contractor use of site and premises.
   4. Work sequence.
   5. Owner occupancy.
   6. Permits.

B. Related Requirements:
   1. Other Division 01 Specification Sections apply to Work of this Section.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

A. Owner: BSA Health System.
B. Identification: BSA GI Lab Renovation.
C. Location: 1600 Wallace Blvd., Amarillo, TX.
D. Work consists of Renovation of GI Lab Sterile Processing, Toilet, and Storage.

1.3 WORK BY OWNER OR OTHERS

A. Owner will furnish and install:
   1. Toilet Accessories including Toilet Paper Holder, Paper Towel Holder, and Soap Dispenser.
   2. Existing Sterilization Equipment to be relocated.

1.4 CONTRACTOR USE OF SITE AND PREMISES

A. Limit use of site and premises to allow:
   1. Owner occupancy.
B. Construction operations: Limited to Areas agreed to prior to construction.
C. Utility outages and shutdowns.
   1. Coordinate and schedule utility outages/shutdown.
   2. Schedule at least 1 week before outage/shutdown.
   3. Submit outage/shutdown request to Engineer itemizing dates, times, and durations of early requested outage/shutdown.

1.5 WORK SEQUENCE

A. Construct Work in phases to accommodate Owner requirements during construction. Coordinate construction schedule and operations with Owner:
   1. See Phasing Plan in Drawings for preliminary plan.
   2. Submit a Project schedule to Owner at the pre-construction conference.

1.6 OWNER OCCUPANCY

A. Owner will occupy premises during construction to conduct normal operations.
B. Cooperate with Owner to minimize conflict and facilitate Owner operations.

1.7 PERMITS

A. Apply for, obtain, and pay for building permits, other permits, and utility comnpany back charges required to perform the work. Submit copies to Project contact.
B. Infection Control Risk Assessment (ICRA), hot work, above ceiling, and confined space permits are required. In addition, all employees working on the job site must fill out and return a signed and date "BSA Construction, Renovation, and Project Requirements" brochure prior to starting Work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 20 00 - PRICE AND PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Schedule of Values.
   2. Application for Payment.
   3. Change Procedures.

B. Related Requirements:
   1. Other Division 01 Specification Sections apply to Work of this Section.

1.2 SCHEDULE OF VALUES

A. Submit Schedule of Values within 15 days after date established in Notice to Proceed.

B. Format: Utilize Table of Contents (TOC) of this Project Manual. Identify each line item with number and title of major Specifications. Identify site mobilization, general conditions, bonds, and insurance as separate line items.

C. Include within each line item, a directly proportional amount of Contractor's overhead and profit.

D. Revise schedule to list approved Change Orders with each Application For Payment.

1.3 APPLICATIONS FOR PAYMENT

A. Submit application on AIA G702 Application for Payment.

B. Content and Format: Utilize Schedule of Values for listing items in Application for Payment.

C. Payment Period: As defined in Owner-Contractor Agreement.

D. Complete Application for Payment includes Construction progress schedule and submittal schedule, all required to process Application for Payment.

1.4 CHANGE PROCEDURES

A. Submittals: Submit name of person authorized to receive change documents and responsible for informing others in Contractor's employ or subcontractors of changes to Work.

B. Carefully study and compare Contract Documents before proceeding with fabricating and installing Work. Promptly advise Architect of any error, inconsistency, omission, or apparent discrepancy.

C. Requests for Information (RFI) and Clarifications: Allot time in construction scheduling for liaison with Architect. Establish procedures for handling queries and clarifications.
   1. Use Newforma for requesting information.
   2. Architect may respond with a direct answer on RFI form through Newforma.

D. Architect will advise of minor changes in the Work not involving adjustment to Contract Price or Time by issuing supplemental instructions through Newforma.

E. Architect may issue a change order through Newforma, including a detailed description of proposed change with supplementary or revised Drawings and Specifications for executing change. Contractor will prepare and submit proposed change in Contractor Price and/or Time within 7 days.

F. Contractor may propose changes by submitting a request for change to Architect, describing proposed change, and its full effect on Work. Include a statement describing reason for change, effect on Contract Price and Time, with full documentation.
G. Document requested substitutions per Section 01 25 00 "Substitution Procedures."
H. Work Directive Change: Architect may issue directive on Architect-provided form signed by Owner, instructing Contractor to proceed with change in Work, for subsequent inclusion in Change Order. Document will describe changes in Work and designate method of determining any change in Contract Price or Time. Promptly execute change.
I. Document each quotation for change in Project Cost or Time with sufficient data to allow evaluation of quotation.
J. Execution of Change Orders: Architect will issue Change Orders for signatures of parties as provided in Conditions of the Contract.
K. Correlation of Contractor Submittals:
    1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Price.
    2. Promptly revise Progress Schedules to reflect change in Contract Time, revise subschedules to adjust times for other items of Work affected by change, and resubmit.
    3. Promptly enter changes in Record Documents.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 25 00 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Quality assurance.
   2. Product options.
   3. Product substitution procedures.

B. Related Requirements:
   1. Other Division 01 Specification Sections apply to Work of this Section.

1.2 QUALITY ASSURANCE

A. Contract is based on products and standards established in Contract Documents without consideration of proposed substitutions.

B. Products specified define standard of quality, type, function, dimension, appearance, and performance required.

C. Substitution Proposals: Permitted for specified products except where specified otherwise. Do not substitute products unless Owner accepts substitution and approves in writing.

1.3 PRODUCT OPTIONS

A. See Section 01 60 00 "Product Requirements."

1.4 PRODUCT SUBSTITUTION PROCEDURES

A. Architect will consider requests for substitutions only within 30 days after date established in Notice to Proceed.

B. Substitutions may be considered when product becomes unavailable through no fault of Contractor.

C. Document each request with complete data, substantiating compliance of proposed substitution with Contract Documents, including:
   1. Manufacturer name and address, product, trade name, model, or catalog number, performance and test data, and reference standards.
   2. Itemized point-by-point comparison of proposed substitution with specified product, listing variations in quality, performance, and other pertinent characteristics.
   3. Reference to Article numbers in Specifications.
   4. Cost data comparing proposed substitution with specified product and amount of net change to Contract Sum.
   5. Changes required in other Work.
   6. Availability of maintenance service and source of replacement parts, as applicable.
   7. Certified test data to show compliance with performance characteristics specified.
   8. Samples when applicable or requested.
   9. Other information as necessary to assist Architect's evaluation.

D. A request constitutes a representation Contractor:
   1. Investigated proposed product and determined it meets/exceeds quality level of specified product.
   2. Will provide same warranty for substitution as specified product.
   3. Will coordinate installation and make changes to other Work required for Work to complete with no additional cost to Owner.
   4. Waives claims for additional costs/time extension that subsequently become apparent.
   5. Will coordinate installation of accepted substitute, making required changes for Work to complete in all respects.
   6. Will reimburse Owner for review/redesign services associated with reapproval by authorities having jurisdiction.

E. Substitutions not considered when indicated/implied on Shop Drawing or Product Data submittals without separate written request or acceptance requires revision to Contract Documents.

F. Substitution Submittal Procedure:
   1. Submit requests for substitutions on Contractor standard.
   2. Submit electronic files to Project website of Request for Substitution for consideration. Limit each request to 1 proposed substitution.
   3. Submit Shop Drawings, Product Data, and certified test results attesting to proposed product equivalence. Burden of proof is on Contractor.
   4. Architect will notify Contractor in writing of decision to accept/reject request.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 30 00 - ADMINISTRATIVE REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Project Information Management.
   2. Coordination.
   3. Preconstruction meeting.
   4. Electronic drawing file (digital data) request.
   5. Request for information.
   6. Progress meetings.

B. Related Requirements:
   1. Other Division 01 Specification Sections apply to Work of this Section.

1.2 PROJECT INFORMATION MANAGEMENT

A. Project Website:
   1. Use Newforma Info Exchange at https://projects.team-psc.com/UserWeb/Login to send and receive Project information.
   2. Contact Architect to set up username and password information.
   3. If Project is not listed when logged in, contact Architect to add Project to your account.

B. Project information includes, but is not limited to:
   1. Product Submittals.
   2. Requests for Information (RFI).
   3. Applications for Payment.
   4. Schedules.
   5. Construction Change Requests (CCRs).
   6. Close-out Documents.
   7. Construction Document Files.

1.3 COORDINATION

A. Coordinate scheduling, submittals, and Work to ensure efficient and orderly sequence of installation of construction elements.

B. Verify utility requirements and characteristics of operating equipment are compatible with building utilities. Coordinate Work of various Sections having interdependent responsibilities for installing, connecting to, and placing such equipment in service.

C. Coordinate space requirements and installation of mechanical and electrical work indicated diagrammatically on Drawings. Follow routing as closely as practicable. Utilize spaces efficiently to maximize accessibility for other installations, maintenance, and repairs.

D. In finished building areas, except as otherwise indicated, conceal pipes, ducts, and wiring within construction. Coordinate locations of fixtures and outlets with finish elements, as applicable.

E. Coordinate completion and clean-up of Work of separate Sections in preparation for Substantial Completion.

F. After Owner occupancy of premises, coordinate access to site with Owner for correction of defective Work and Work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

1.4 ELECTRONIC DRAWING FILE (DIGITAL DATA) REQUEST

A. During Procurement Phase:
   1. Bidders and Proposers may purchase a Digital Data file. Digital Data file will be provided in software release currently used by Architect. File will be provided via Architect’s Project website.
   2. AutoCAD Drawing files (DWG) are available for purchase from Architect upon request. Cost of files are indicated below plus applicable tax.
      a. 1 – 3 Sheets: $100.00 per sheet.
      b. 4 – 6 Sheets: $400.00 flat fee.
      c. 7 – 9 Sheets: $500.00 flat fee.
   3. Revit BIM Model files (RVT) are available for purchase from Architect upon request. Cost of model files are $150.00 for each model plus applicable tax. All details, detail annotation, and reference are omitted and not part of the Model file.
   4. Prior to delivery of file(s), purchaser will sign a Digital Data Licensing Agreement. Payment for Digital Data file(s) will occur upon delivery of file to purchaser.
   5. Digital Data file(s) will be used only for preparing Bids and Proposals required by this Project not used in any other form, in whole or in part.

1.5 REQUEST FOR INFORMATION (RFI)

A. RFI requests from subcontractors or material suppliers will not be considered.
B. Information indicated on RFI will be complete before submission. If Architect determines request can be answered with information provided, Architect will assign RFI tracking number. If Architect determines request is not an RFI, request will be returned to Contractor electronically and deleted from Architect's electronic tracking software without assigning an RFI tracking number. A transmittal document returning denied RFI request will be provided with a response indicating action to be taken by Contractor.
C. RFIs may contain more than 1 item when items are related. Otherwise, only 1 item will be addressed on each RFI request.
D. Allow 7 days for Architects response to each RFI.
E. Response to RFI will be issued to Contractor and Owner per Section 01 33 00 "Submittal Procedures."
F. Responses from Architect are not changes unless issued with a change per Section 01 20 00 "Price and Payment Procedures."
G. A sample RFI Form is attached at the end of this Section. Contractor will be provided a blank form for its use.

1.6 PROGRESS MEETINGS

A. Schedule and administer bi-monthly meetings throughout Work progress prior to application for payment, at minimum.
B. Arrange meetings, prepare agenda with copies for participants, preside at meetings.

C. Attendance Required:
   1. Owner.
   2. Job superintendent.
   3. Major subcontractors.
   4. Suppliers.
   5. Architect.
   6. As appropriate to agenda topics for each meeting.

D. Agenda:
   1. Review minutes of previous meetings.
   2. Review Work progress.
   3. Field observations, problems, and decisions.
   4. Identify problems which impede planned progress.
   5. Review submittal schedule and status of submittals.
   6. Review RFI log.
   7. Review off-site fabrication and delivery schedules.
   8. Maintenance of progress schedule.
   9. Corrective measures to regain projected schedules.
   10. Planned progress during succeeding Work period.
   11. Coordinate projected progress.
   12. Maintenance of quality and Work standards.
   13. Effect of proposed changes on progress schedule and coordination.
   14. Other business relating to Work.

E. Record minutes and distribute copies within 5 days to Architect, participants, and those affected by decisions made.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

Parkhill

RFI No.

TO: Parkhill

FROM:

PROJECT NAME:

PARKHILL PROJECT NO.:

Issue Date:		***Requested Reply Date:**	

*Items to be completed by Contractor before submittal to Parkhill for review. RFI form must be fully completed for Parkhill to respond.

***RFI DESCRIPTION:** *(Fully describe the question or type of information requested. Provide photos and/or sketches as applicable to help with the description.)*

***REFERENCES/ATTACHMENTS:** *(List specific documents researched when seeking the information requested.)*

Specifications	Drawings	Other

***CONTRACTOR'S PROPOSED SOLUTION:** *(If RFI concerns a site or construction condition, the sender shall provide a recommended solution, including cost and/or schedule considerations before Parkhill can respond. The proposal solution shall consist of a revised text, sketches, drawings, etc. as applicable to a full and complete explanation.)*

*Submitted by:

RESPONSE: *(Provide answer to RFI, including cost and/or schedule considerations, revised text, sketches, drawings, etc. as applicable to fully explain response.)*

☐ Attachments:

Response by:

Copies: ☐ Owner ☐ Consultants ☐ ☐

Note: This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.

AIA® Document C106™ – 2022

Digital Data Licensing Agreement

AGREEMENT made as of the day of in the year
(In words, indicate day, month, and year.)

BETWEEN the Party transmitting Digital Data ("Transmitting Party"):
(Name, address, and contact information, including electronic addresses)

and the Party receiving the Digital Data ("Receiving Party"):
(Name, address, and contact information, including electronic addresses)

for the following Project:
(Name and location or address of the Project)

for the following Digital Data ("Digital Data"):
(Identify below, in detail, the information created or stored in digital form that the Parties intend to be subject to this Agreement.)

[Revit Models (.rvt files)]
[AutoCAD (.dwg files)]
[Portable Document Format (.pdf)]

The Transmitting Party and Receiving Party agree as follows.

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Init.
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TABLE OF ARTICLES

1 GENERAL PROVISIONS

2 TRANSMISSION OF DIGITAL DATA

3 LICENSE CONDITIONS

4 LICENSING FEE OR OTHER COMPENSATION

ARTICLE 1 GENERAL PROVISIONS

§ 1.1 The purpose of this Agreement is to grant a license from the Transmitting Party to the Receiving Party for the Receiving Party's use of Digital Data and to set forth the license terms.

§ 1.2 This Agreement is the entire and integrated agreement between the Parties. Except as specifically set forth herein, this Agreement does not create any other contractual relationship between the Parties.

§ 1.3 Confidential Digital Data is Digital Data containing confidential or business proprietary information that the Transmitting Party designates as "confidential."

ARTICLE 2 TRANSMISSION OF DIGITAL DATA

§ 2.1 The Transmitting Party grants to the Receiving Party a nonexclusive limited license to use the Digital Data solely and exclusively for the uses, and in accordance with the terms, set forth in Article 3.

§ 2.2 Only the Receiving Party is permitted to access and use the Digital Data. Unlicensed and unauthorized access or use by third parties is strictly prohibited except as set forth in Section 2.4.1.

§ 2.3 The transmission of Digital Data constitutes a warranty by the Transmitting Party to the Receiving Party that the Transmitting Party is the copyright owner of the Digital Data or otherwise has permission to transmit the Digital Data to the Receiving Party for its use on the Project in accordance with the terms and conditions of this Agreement.

§ 2.4 Where the Transmitting Party has designated information furnished pursuant to this Agreement as "confidential," the Receiving Party shall keep the information confidential and shall not disclose it to any other person or entity except as set forth in Section 2.4.1.

§ 2.4.1 The Receiving Party may disclose Confidential Digital Data after seven (7) days' notice to the Transmitting Party where disclosure is required by law, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or by court or arbitrator(s) order. The Receiving Party may also disclose Confidential Digital Data to its employees, consultants, sureties, subcontractors and their employees, sub-subcontractors, and others who need to know the content of such information solely and exclusively for the Project and who agree to maintain the confidentiality of such information.

§ 2.5 By transmitting Digital Data, the Transmitting Party does not convey any ownership right in the Digital Data or in the software used to generate the Digital Data. Unless otherwise granted in a separate license, the Receiving Party's right to use, modify, or further transmit Digital Data is specifically limited to those uses, and in accordance with the terms, set forth in Article 3, and nothing contained in this Agreement conveys any other right to use the Digital Data.

§ 2.6 To the fullest extent permitted by law, the Receiving Party shall indemnify and defend the Transmitting Party from and against all claims arising from or related to the Receiving Party's modification to, or unlicensed use of, the Digital Data.

§ 2.7 Transmission of the Digital Data does not abridge or extinguish the Transmitting Party's rights, including, to the extent applicable, exclusive ownership interest, in such information under all applicable state, federal, and international laws including, without limitation, laws governing the protection of copyrights and intellectual property.

§ 2.8 The provisions of this Article 2 shall survive the termination of this Agreement.

ARTICLE 3 LICENSE CONDITIONS

§ 3.1 The Receiving Party may use and rely upon the Digital Data to the extent set forth in this Article 3.

(Paragraph deleted)

[X] **§ 3.1.1** The Digital Data is transmitted solely for the Receiving Party's information. Receiving Party acknowledges that any use of the Digital Data shall be at Receiving Party's sole risk. The Receiving Party accepts the Digital Data "as is" without any warranty or representations from the Transmitting Party as to whether the Digital Data is accurate, complete, or fit for use as intended by the Receiving Party. The Receiving Party is solely responsible for verifying whether the Digital Data is accurate, complete, or fit for the Receiving Party's intended use.

(Paragraphs deleted)

§ 3.1.1.1 This Digital Data is part of the Transmitting Party's Instruments of Service and shall not be used by Receiving Party or anyone else receiving this data through or from the Receiving Party for any purpose other than as a convenience in the preparation of bid submittals, shop drawings, coordination drawings, construction phase submittals, and field layout and staking required by the Owner for the exclusive use of the referenced Project. Any use or reuse by the Receiving Party or by others will be at the Receiving Party's sole risk and without liability or legal exposure to Transmitting Party. The Receiving Party agrees to make no claim and hereby waive, to the fullest extent permitted by law, any claim or cause of action of any nature against Transmitting Party, its officers, directors, employees, or subconsultants that may arise out of or in connection with Receiving Party's use of this Digital Data.

§ 3.1.1.2 No representation as to the compatibility of this Digital Data with Receiving Party's hardware or software is provided.

§ 3.1.1.3 This Digital Data is not a Construction Document. Differences may exist between this Digital Data and corresponding two-dimensional hard-copy Construction Document. The Transmitting Party makes no representation regarding the accuracy or completeness of the Digital Data the Receiving Party receives. In the event that a conflict arises between the signed/sealed two-dimensional hard-copy Construction Document prepared by Transmitting Party and the Digital Data, the signed/sealed two-dimensional hard-copy Construction Document shall govern. The Receiving Party is responsible for determining if any conflict exists. By the Receiving Party's use of this Digital Data, Receiving Party is not relieved of their duty to fully comply with the Contract Documents, including, and without limitation, the need to check, confirm and coordinate all dimensions and details, field measurements, verify field conditions and coordination of work with that of other contractors for the Project.

§ 3.1.1.4 Because information presented in the Digital Data can be modified, unintentionally or otherwise, the Transmitting Party reserves the right to remove all indicia of ownership and/or involvement from each Digital Data.

§ 3.1.1.5 Under no circumstances shall delivery of this Digital Data for use by the Receiving Party be deemed a sale of document ownership by Transmitting Party, and no warranties, either express or implied, of merchantability or fitness for any particular purpose is made. In no event shall the Transmitting Party be liable for any loss of profit or any consequential damages as a result of the Receiving Party's use or reuse of this Digital Data.

§ 3.1.1.6 The Digital Data file does not necessarily contain all the information that is required to produce finished Construction Documents. Because of this, there may be data within the Digital Data that is missing, incomplete or even contradictory to the information provided in the final two dimensional Construction Documents.

§ 3.1.1.7 Professional judgment will need to be used by the Receiving Party, along with reasonable expectations and interpretations in order to use the Digital Data for its intended purpose. Should the Transmitting Party provide revised and updated copies of the Digital Data to the Receiving Party throughout the Project, all terms and conditions of this agreement will be applicable and unchanged for all subsequent transmissions of the Digital Data

ARTICLE 4 LICENSING FEE OR OTHER COMPENSATION

The Receiving Party agrees to pay the Transmitting Party the following fee or other compensation for the Receiving Party's use of the Digital Data:

(State the fee, in dollars, or other method by which the Receiving Party will compensate the Transmitting Party for the Receiving Party's use of the Digital Data.)

This Agreement is entered into as of the day and year first written above and terminates one year from said date, except as set forth below.

(Indicate when this Agreement will terminate, if other than one year from the date it was entered into, and other conditions related to termination.)

N/A

PARKHILL	**[RECEIVING PARTY]**
TRANSMITTING PARTY *(Signature)*	**RECEIVING PARTY** *(Signature)*
(Printed name and title)	*(Printed name and title)*

SECTION 01 33 00 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Submittal procedures.
   2. Resubmittal requirements.
   3. Construction progress schedules.
   4. Proposed products list.
   5. Shop Drawings.
   6. Product data.
   7. Samples.
   8. Design data.
   9. Certificates.
   10. Manufacturers' instructions.
   11. Construction photographs.

B. Related Requirements:
   1. Other Division 01 Specification Sections apply to Work of this Section.
   2. Section 01 20 00 "Price and Payment Procedures" for Schedule of Values; Inspecting and Testing Allowances.
   3. Section 01 30 00 "Administrative Requirements" for Project information management.
   4. Section 01 40 00 "Quality Requirements" for manufacturers' field services and reports; Testing Laboratory Services.
   5. Section 01 70 00 "Execution and Closeout Requirements" for Contract warranty, manufacturer's certificates, and closeout submittals.

1.2 SUBMITTAL PROCEDURES

A. Submit to Architect for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.

B. Produce copies and distribute in accordance with this Article.

C. Use Project website to submit record documents as described in Section 01 70 00 "Execution and Closeout Requirements."

D. Transmit each submittal separately with Contractor's standard transmittal letter including Contractor's name, address, and phone number. Each submittal shall contain only 1 Specification Section.

E. Sequentially number transmittal forms using Section number or Contractors other sequential numbering system.

F. Identify Project, Contractor, subcontractor, or supplier; pertinent drawing sheet and detail number(s), and Specification Section number appropriate to submittal.

G. Apply Contractor's stamp, signed or initialed certifying that review, verification of products required, field dimensions, adjacent construction Work, and coordination of information, is in accordance with requirements of Work and Contract Documents.

H. Schedule submittals to expedite Project, and deliver to Architect. Coordinate submission of related items.

I. For each submittal for review, allow 15 days excluding delivery time to and from Contractor.

J. Identify variations from Contract Documents and product or system limitations which may be detrimental to successful performance of completed Work. Information, comments, field verifications, responses, or other notations marked on submittals by Contractor shall be done in blue or green colors only.
K. Allow space on submittals for Contractor and Architect's review stamps.
L. Distribute copies of reviewed submittals to concerned parties. Instruct parties to promptly report any inability to comply with provisions.
M. Submittals not requested will not be recognized or processed.
N. Format:
    1. Submit all submittals digitally using PDF file extension. Each submittal shall be a single PDF file including transmittal letter. Multiple files for same submittal will not be accepted.
    2. Submittals in any other format, including ZIP files, will be rejected.
    3. Hard copies will not be accepted.
    4. To ensure each page is legible, PDF pages of drawings shall be same size/scale as a hard copy. Where applicable, scale symbols should be provided to indicate scale. Illegible submittals will be rejected.
    5. Uploaded submittals to Project website.
O. Submittal procedures described in this Article applies to construction progress schedule, products list, Shop Drawings, product data, samples (actual samples and digital files of same), design data, test reports, certificates, manufacturer's instructions and field reports, erection Drawings, and any other type of submittal submitted to Architect.

1.3 RESUBMITTAL REQUIREMENTS

A. Revise and resubmit submittals, as required, and resubmit to meet requirements as specified and as noted on submittal reviews.
B. Mark as RESUBMITTAL.
C. Re-use original transmittal number and supplement with sequential alphabetical or numeric suffix for each re-submittal.

1.4 CONSTRUCTION PROGRESS SCHEDULES

A. Submit initial progress schedule for Architect's review within 15 days after date established in Notice to Proceed or with the first Application for Payment, whichever is sooner.
B. Revise and resubmit as required.
C. Submit revised schedule with each Application for Payment, identifying changes since previous version.
D. Submit a horizontal bar chart with separate line for each section of Work, identifying first work day of each week.
E. Indicate product/material manufacturer's lead-time for delivery to site. Include as a separate line for each product/material.

1.5 PROPOSED PRODUCTS LIST

A. Within 15 days after date of Notice to Proceed, submit complete list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
B. For products specified only by reference standards, give manufacturer, trade name, model or catalog designation, and reference standards.

1.6 SHOP DRAWINGS

A. Indicate special utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
B. Printable Image Size: Minimum 8-1/2 by 11 inches and maximum 30 by 42 inches.
C. Draw details to a minimum scale of 1/2-inch equal to 1-foot.
D. Draw other plans to a minimum scale of 1/8 inch equal to 1-foot.
E. Construction Documents (electronic or paper format) issued by Architect cannot be used in any shape, form, or fashion in creation and development of Shop Drawings, except that electronic files containing floor plans or site plans which have been acquired from Architect may be used as backgrounds for Contractor, subcontractors, sub-subcontractors, and material suppliers in Shop Drawing process.
F. In creation and publication of Shop Drawings, under no circumstances shall Design Professional's seal or title block of Drawing be reproduced. Shop Drawings must be original works from Contractor, subcontractors, sub-subcontractors, and material suppliers.

1.7 PRODUCT DATA

A. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information unique to this Project.
B. Include recommendations for application and use, and reference to compliance with specified standards of trade associations and testing agencies.
C. Include notation of special coordination requirements for interfacing with adjacent Work and building utilities where applicable.
D. After review, distribute in accordance with "Submittal Procedures" Article above and provide copies for Record Documents described in Section 01 70 00 "Execution and Closeout Requirements."

1.8 SAMPLES

A. Submit samples to illustrate functional and aesthetic characteristics of product, with integral parts and attachment devices. Accompany physical sample with color digital image (photo or scanned PDF) of sample. Coordinate sample submittals for interfacing work.
B. Unless otherwise specified, submit samples of finishes from manufacturers' full range of standard colors, textures, and patterns, for Architect's selection.
C. Where variations in color, pattern, or texture are inherent in material or product, submit multiple samples to indicate approximate range or variations.
D. Include full Project information and identification of manufacturer, model number, type, style and color on each sample.
E. Submit number of samples specified in individual Specification Sections; one of which will be retained by Architect.
F. Samples will not be used for testing purposes unless specifically stated in individual Specification Sections.

1.9 DESIGN DATA

A. Submit for Architect's knowledge as Contract Administrator or for Owner.
B. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

1.10 CERTIFICATES

A. When specified in individual Specification Sections, submit certification by manufacturer, installation/application subcontractor, or Contractor to Architect.
B. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
C. Certificates may be recent or previous test results on material or product, but must be acceptable to Architect.

1.11 MANUFACTURER'S INSTRUCTIONS

A. When specified in individual Specification Sections, submit manufacturers' printed instructions for delivery, storage, assembly, installation, startup, adjusting, and finishing.
B. Identify conflicts between manufacturers' instructions and Contract Documents.
C. Indicate special procedures, conditions requiring special attention and special environmental criteria required for application or installation.

1.12 CONSTRUCTION PHOTOGRAPHS

A. Each month submit photographs to Architect with Application for Payment.
B. Photographs:
    1. Format: JPEG file extension; color.
    2. Subject:
        a. Take 5 interior photographs indicating relative progress of Work, 5 days maximum prior to submitting pay request.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 40 00 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Quality control and control of installation.
   2. Tolerances.
   3. References.

B. Related Requirements:
   1. Other Division 01 Specification Sections apply to Work of this Section.
   2. Section 01 30 00 "Administrative Requirements" for Project information management.
   3. Section 01 33 00 "Submittal Procedures" for submission of manufacturers' instructions and certificates.
   4. Section 01 60 00 "Product Requirements" for requirements for material and product quality.

1.2 QUALITY CONTROL AND CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

D. Comply with specified standards as a minimum quality for Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Perform Work by persons qualified to produce workmanship of specified quality.

F. Verify field measurements are as indicated on Shop Drawings or as instructed by manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.

H. Patch holes with materials and methods to produce patch which is not visible from a distance of 5 feet. Do not cut and patch in a manner that would result in a failure of the work to perform as intended, decrease fire performance, decrease acoustical performance, decrease energy performance, decrease operation life, or decrease safety factors.

I. Use of any supplied or subcontractor is subject to Owner's approval.

1.3 TOLERANCES

A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.

B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.

C. Adjust products to appropriate dimensions; position before securing in place.

1.4 REFERENCES

A. For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of standard, except when more rigid requirements are specified or are required by applicable codes.
B. Conform to reference standard by date of issue current on date of Contract Documents, except where a specific date is established by Code.
C. Neither contractual relationship, duties, nor responsibilities of parties in Contract nor those of Architect shall be altered from Contract Documents by mention or inference otherwise in any reference document.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Temporary Utilities:
      a. Electricity.
      b. Lighting.
      c. Heating.
      d. Cooling.
      e. Ventilation.
      f. Communication services.
      g. Water.
      h. Sanitary.
   2. Construction Facilities:
      a. Field offices and sheds.
      b. Parking.
      c. Progress cleaning.
   3. Temporary Controls:
      a. Dust control.
      b. Noise control.
      c. Protection of Work.
   4. Removal of utilities, facilities, and controls.

B. Related Requirements:
   1. Other Divisions 01 Specification Sections apply to Work of this Section.
   2. Section 01 70 00 "Execution and Closeout Requirements" for final cleaning.

1.2 TEMPORARY ELECTRICITY

A. Connect to existing power service. Power consumption shall not disrupt Owner's need for continuous service.
B. Provide power outlets for construction operations, with branch wiring and distribution boxes as required.
C. Provide flexible power cords as required.
D. Provide main temporary service disconnect and overcurrent protection at convenient location in conformance with National Electric Code.
E. Permanent and existing convenience receptacles may be utilized during construction.
F. Provide adequate distribution equipment, wiring, and outlets to provide single phase branch circuits for power and lighting.

1.3 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

A. Existing building lighting may be utilized during construction. Owner will maintain lighting and pay cost of energy used. Exercise measures to conserve energy.
B. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.
C. Maintain lighting and provide routine repairs.

1.4 TEMPORARY HEAT

A. Utilize Owner's existing heat plant, extend and supplement with Contractor provided temporary heat devices as required to maintain specified conditions for construction operations.

1.5 TEMPORARY COOLING

A. Utilize Owner's existing cooling plant, extend and supplement with Contractor provided temporary cooling devices as required to maintain specified conditions for construction operations.

1.6 TEMPORARY VENTILATION

A. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
B. Provide temporary fan units as required to maintain clean air for construction operations.
C. Owner will pay cost of energy used. Exercise measures to conserve energy.

1.7 TEMPORARY COMMUNICATION SERVICES

A. As a minimum, provide cellular mobile telephone service for on-site superintendent and home office telephone service.
B. Owner's communication systems shall not be used unless otherwise approved by Owner.

1.8 TEMPORARY WATER SERVICE

A. Connect to existing water source for construction operations. Extend and supplement with temporary devices as needed to maintain specified conditions for construction operations.

1.9 TEMPORARY SANITARY FACILITIES

A. Existing designated facilities located on site may be used during construction operations. Maintain daily in clean and sanitary condition.
B. At end of construction, return facilities to same or better condition than originally found.

1.10 FIELD OFFICES AND SHEDS

A. Existing spaces may be used for field offices as indicated as approved by Owner.
B. Maintenance and Cleaning:
    1. Daily janitorial services for offices; periodic cleaning and maintenance for office and storage areas.

1.11 PARKING

A. Locate as approved by Owner.

1.12 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing space.
C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
D. Remove waste materials, debris, and rubbish from site and dispose off-site at intervals as required to maintain clean site.

1.13 DUST CONTROL

A. Execute Work by methods to minimize raising dust from construction operations.
B. Provide positive means to prevent air-borne dust from dispersing into atmosphere.

1.14 NOISE CONTROL

A. Provide methods, means, and facilities to minimize disruption of Owner's operations and activities due to noise produced by construction operations and noise transfer from construction areas to Owner occupied areas.
B. Conduct activities that will produce noise that will or potentially will interfere with Owner's operations and activities.

1.15 PROTECTION OF INSTALLED WORK

A. Protect installed Work and provide special protection where specified in individual Specification Sections.
B. Provide temporary and removable protection for installed products. Control activity in immediate Work area to minimize damage.
C. Provide protective coverings at openings in walls, roof, and soffits.
D. Protect finished walkways, drives, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
E. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
F. Prohibit traffic from landscaped areas.

1.16 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

A. Remove temporary above grade utilities, equipment, facilities, and materials as soon as permanent facilities can be utilized.
B. Remove risers for underground utilities to a minimum depth of 2 feet and cap.
C. Remove buried equipment, facilities, and materials completely to a minimum depth of 2 feet and cap.
D. Backfill excavations as specified in other Sections and grade site as indicated.
E. Clean and repair damage caused by installation or use of temporary Work.
F. Restore existing facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.
G. Provide temporary barricades as necessary to ensure protection of the public.

H. Provide suitable waste disposal units and empty regularly. Do not permit accumulation of trash and waste materials. Thorough clean up shall be complete before 6:00 AM each Monday through Thursday.
I. Maintain egress within and around construction areas.
J. Contractor shall provide appropriate infection control measures approved by Owner. An ICRA permit will be required prior to starting construction.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 60 00 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Products.
   2. Product delivery, storage, and handling.
   3. Product options.
   4. Substitutions.

B. Related Requirements:
   1. Other Division 01 Specification Sections apply to Work of this Section.
   2. Section 01 30 00 "Administrative Requirements" for Project information management.

1.2 PRODUCTS

A. Products: Means new material, machinery, components, equipment, fixtures, and systems forming Work and does not include machinery and equipment used for preparation, fabrication, conveying and erection of Work. When allowed by Contract Documents, products may include used and/or existing materials or components.

B. Hazardous Materials: Products or material containing hazardous materials or substances, including but not limited to asbestos or polychlorinated biphenylshall (PCB), shall not be included in Work.

C. Do not use materials and equipment removed from existing premises, except as specifically permitted by Contract Documents.

D. Provide interchangeable components of same manufacturer, for similar components.

E. Materials required to match existing Work and not otherwise specified, shall be equal to existing Work in quality, color, and finish. Workmanship and installation shall be comparable to adjacent existing Work. Architect shall be authority in determination of acceptable Work.

F. Provide products of acceptable manufacturers which have been satisfactory use in similar service for 3 years.

G. SDS Sheets shall be submitted to Owner for each product that installed in the Project.

1.3 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Delivery:
   1. Deliver materials, products, and equipment to site in manufacturer's original, unopened containers or packaging, with identifying labels intact and legible.
   2. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.
   3. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.
   4. Arrange deliveries in accord with construction schedule and in ample time to facilitate inspection prior to installation to avoid unnecessary delays in construction process.

B. Storage:
   1. Store and protect products in accordance with manufacturer's instructions, with seals and labels intact and legible.
   2. Store sensitive products in weathertight, climate-controlled enclosures.
   3. For exterior storage of fabricated products, place on supports, above ground, sloped to drain water.
   4. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation or potential degradation of products.
   5. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
   6. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
   7. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.
   8. Materials, products, and equipment may be stored off site in a bonded and insured warehouse approved by Architect and Owner. Pay all costs incurred for off-site storage facilities. Products properly stored in off-site storage facilities may be included in progress pay requests with written approval of Architect.

C. Handling: Handle materials, products, and equipment in a manner prescribed by manufacturer or specified to protect from damage during storage and installation.

1.4 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Any product meeting those standards or description.

B. Products Specified by Naming One or More Manufacturers: Products of manufacturers named and meeting Specifications, no options or substitutions allowed.

C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named in accordance with this Section.

1.5 SUBSTITUTIONS

A. Architect will consider requests for substitutions within 15 days after date established in Notice to Proceed.

B. Substitutions (after bidding period) may be considered when a product becomes unavailable through no fault of Contractor.

C. Document each request with complete data substantiating compliance of proposed Substitution with Contract Documents.

D. A request constitutes a representation that Bidder:
   1. Has investigated proposed product and determined that it meets or exceeds quality level of specified product.
   2. Will provide same warranty for Substitution as for specified product.
   3. Will coordinate installation and make changes to other Work which may be required for Work to be complete with no additional cost to Owner.
   4. Waives claims for additional costs or time extension which may subsequently become apparent.
   5. Will reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.

E. Substitutions will not be considered when they are indicated or implied on Shop Drawing or product data submittals, without separate written request, or when acceptance will require revision to Contract Documents.

F. Substitution Submittal Procedure:
   1. Submit request for Substitution for consideration. Limit each request to one proposed Substitution.
   2. Requests shall include name of material or equipment to be substituted and a description of proposed substitution including Drawings, performance and test data, and other information necessary for an evaluation.
   3. Submit item-by-item (line-by-line) comparison of each item listed in Specification compiled and submitted comparing specified material/product with proposed substitution and specifically noting all differences between the compared products and/or systems.
   4. Submit statement setting forth changes in other material, equipment or other portions of Work including changes in Work of other Contracts that incorporation of proposed substitution would require shall be included.
   5. Submit Shop Drawings, product data, and certified test results for proposed product equivalence.
   6. Architect will notify Contractor, in writing, of decision to accept or reject request.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 70 00 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Closeout procedures.
   2. Final cleaning.
   3. Testing, adjusting, and balancing.
   4. Protecting installed construction.
   5. Hazardous materials affidavits.
   6. Project record documents.
   7. Operation and maintenance data.
   8. Spare parts and maintenance products.
   9. Product warranties and product bonds.

B. Related Requirements:
   1. Other Division 01 Specification Sections apply to Work of this Section.
   2. Section 01 30 00 "Administrative Requirements" for Project information management.

1.2 CLOSEOUT PROCEDURES

A. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for Architect's review.

B. Provide submittals to Architect required by authority having jurisdiction.

C. Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.

D. Closeout documents will be submitted electronically in OCR (Optical Character Recognition)/PDF format.

E. At Owner's request, Contractor shall provide a hard copy of Closeout Documents in 3-ring binders.

F. Owner will occupy portions of building as specified in Section 01 10 00 "Summary."

1.3 FINAL CLEANING

A. Owner will provide final cleaning after Final Acceptance.

1.4 PROTECTING INSTALLED CONSTRUCTION

A. Protect installed Work and provide special protection where specified in individual Specification Sections.

B. Provide temporary and removable protection for installed products. Control activity in immediate Work area to prevent damage.

C. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

1.5 HAZARDOUS MATERIALS AFFIDAVITS

A. Provide notarized affidavits declaring that hazardous materials were not incorporated into or delivered to site.
B. Hazardous materials include asbestos, lead polychlorinated biphenyl (PCB), prohibited termite eradication chemicals or any substance of any proportion determined or suspected by an agency of federal or state government to create a health hazard.
C. Provide table of contents listing affidavits in alphabetical order.
D. Prepare cover page with printed title "AFFIDAVITS OF NON-INCORPORATED HAZARDOUS MATERIALS," Title of Project, Project Address, Owner's Name, Address and Phone, and Date of Construction Completion.
E. Provide 1 complete set of aforementioned information in OCR (Optical Character Recognition)/PDF format.
F. Submit prior to Application for Final Payment.

1.6 PROJECT RECORD DOCUMENTS

A. Maintain on site 1 set of record documents; record actual revisions to Work:
   1. Drawings.
   2. Addenda.
   3. Change Orders and other modifications to Contract.
   4. Reviewed Shop Drawings, Product Data, and samples.
   5. Complete set of MSDS sheets for materials.
   6. Manufacturer's instruction for assembly, installation, and adjusting.
B. Ensure entries are complete and accurate, enabling future reference by Owner.
C. Store record documents separate from documents used for construction.
D. Record information concurrent with construction progress, not less than weekly.
E. Specifications: Legibly mark and record at each product Section description of products installed, including following:
   1. Manufacturer's name and product model and number.
   2. Product substitutions or alternates utilized.
   3. Changes made by Addenda, Change Orders, RFI responses, and other modifications.
F. Record Drawings: Legibly mark each item to record actual construction including:
   1. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
   2. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of Work.
   3. Field changes of dimension and detail.
   4. Details not on original Contract Drawings.
   5. Changes made by Addenda, Change Order, RFI responses, and other modifications.
   6. Submit in OCR (Optical Character Recognition)/PDF format.
   7. Comply with most current requirements of Department of State Health Services, Texas Asbestos Health Protection Rules (TAHPR), Title 25., HEALTH SERVICES, Part I, Chapter 295-Occupational Health, §295.34-Asbestos Management in Facilities and Public Buildings, paragraph (i) as a minimum and as outlined below.
   8. Submit MSDS on products used in construction of Project.
   9. Submit MSDS electronically in 8-1/2- by 11-inch format text pages.
   10. Prepare cover page with printed title "MATERIAL SAFETY DATA SHEETS (MSDS)," Title of Project, Project Address, Owner's Name, Address and Phone, and Date of Construction Completion.

11. Internally subdivide contents with page dividers, organized into CSI format shown in Project Manual.
12. Prepare a table of contents, listing each of Division headings and listing each material/product under each heading by manufacturer and material/product name.
13. Submit complete set of aforementioned information in OCR (Optical Character Recognition)/PDF format.
14. Submit information with Application for Final Payment and include MSDS for materials/products delivered or installed in Project.
15. Failure to submit updated electronic MSDS documents will cause Application for Final Payment to be held by Architect (not submitted to Owner for processing) until such time updated electronic MSDS documents are received and reviewed for compliance by Architect.

G. Submit documents to Architect with claim for final Application for Payment.

1.7 OPERATION AND MAINTENANCE DATA

A. Submit data electronically in 8-1/2- by 11-inch text pages, OCR (Optical Character Recognition)/PDF format.
B. Prepare cover page with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS," title of Project.
C. Internally subdivide contents with page dividers, logically organized as described below:
   1. Drawings: Provide in OCR (Optical Character Recognition)/PDF format.
   2. Contents: Prepare Table of Contents for each file (if multiple files), with each product or system description identified, in 3 parts as follows:
      a. Part 1: Directory, listing names, addresses, and telephone numbers of Architect, Contractor, subcontractors, and major equipment suppliers.
      b. Part 2: Operation and maintenance instructions, arranged by system and subdivided by Specification Section. For each category, identify names, addresses, and telephone numbers of subcontractors and suppliers. Identify:
         1) Significant design criteria.
         2) List of equipment.
         3) Parts list for each component.
         4) Operating instructions.
         5) Maintenance instructions for equipment and systems.
      c. Part 3: Project documents and certificates, including:
         1) Shop Drawings and product data.
         2) Certificates.
         3) Scanned copies of warranties in OCR (Optical Character Recognition)/PDF format.
D. Submit 1 complete set of aforementioned information in OCR (Optical Character Recognition)/PDF format.
E. Submit documents with Application for Final Payment.

1.8 MANUAL FOR MATERIALS AND FINISHES

A. Submit in OCR (Optical Character Recognition)/PDF format of preliminary draft or proposed formats and outlines of contents before start of Work. Architect will review draft and return electronic file with comments.
B. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit documents within 10 days after acceptance.

C. Submit 1 electronic copy of completed volumes 15 days prior to final inspection. Draft copy to be reviewed and returned after final inspection, with Architect comments. Revise content of electronic document set as required prior to final submission.
D. Submit electronic documents of revised final volumes in final form within 10 days after final inspection.
E. Building Products, Applied Materials, and Finishes: Include product data, with catalog number, size, composition, and color and texture designations.
F. Instructions for Care and Maintenance: Include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.

1.9 PRODUCT WARRANTIES AND PRODUCT BONDS

A. Obtain warranties and bonds executed by responsible subcontractors, suppliers, and manufacturers, within 10 days after completion of applicable item of Work.
B. Execute and assemble transferable warranty documents and bonds from subcontractors, suppliers, and manufacturers.
C. Verify documents are in proper form, contain full information, and are notarized.
D. Co-execute submittals when required.
E. Include Table of Contents.
F. Submit 1 complete set of aforementioned information in OCR (Optical Character Recognition)/PDF format for review.
G. Submit prior to Application for Final Payment.
H. Time of Submittals:
    1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.
    2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
    3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing date of acceptance as beginning of warranty or bond period.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 73 00 - EXECUTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes general administrative and procedural requirements governing execution of the Work, including, but not limited to, the following:
   1. Construction layout.
   2. Installation of the Work.
   3. Cutting and patching.
   4. Coordination of Owner's portion of the Work.
   5. Progress cleaning.
   6. Starting and adjusting.
   7. Protection of installed construction.
   8. Correction of the Work.

B. Related Requirements:
   1. Other Division 01 Specification Section apply to Work of this Section.
   2. Section 01 70 00 "Execution and Closeout Requirements" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, replacing defective work, and final cleaning.
   3. Section 02 41 19 "Selective Demolition" for demolition and removal of selected portions of the building.

1.2 DEFINITIONS

A. Cutting: Removal of in-place construction necessary to permit installation or performance of subsequent work.

B. Patching: Fitting and repair work required to restore construction to original conditions after installation of subsequent work.

1.3 INFORMATIONAL SUBMITTALS

A. Landfill Receipts: Submit copy of receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal.

1.4 CLOSEOUT SUBMITTALS

A. Final Property Survey: Submit 10 copies showing the Work performed and record survey data.

1.5 QUALITY ASSURANCE

A. Professional Engineer Qualifications: Refer to Section 01 40 00 "Quality Requirements."

B. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
   1. Structural Elements: When cutting and patching structural elements, or when encountering the need for cutting and patching of elements whose structural function is not known, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.
   2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operational elements include but are not limited to the following:
      a. Primary operational systems and equipment.
      b. Fire separation assemblies.
      c. Air or smoke barriers.
      d. Fire-suppression systems.
      e. Plumbing piping systems.
      f. Mechanical systems piping and ducts.
      g. Control systems.
      h. Communication systems.
      i. Fire-detection and -alarm systems.
      j. Electrical wiring systems.
   3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety. Other construction elements include but are not limited to the following:
      a. Water, moisture, or vapor barriers.
      b. Membranes and flashings.
      c. Exterior curtain-wall construction.
      d. Sprayed fire-resistive material.
      e. Equipment supports.
      f. Piping, ductwork, vessels, and equipment.
      g. Noise- and vibration-control elements and systems.
   4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

C. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of specified products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Comply with requirements specified in other Sections.
B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
   1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials. Use materials that are not considered hazardous.
C. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.
   1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, gas service piping, and water-service piping; underground electrical services; and other utilities.
   2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.
B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
   1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
   2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
   3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

C. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Existing Utility Information: Furnish information to Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.
B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents, submit a request for information to Architect in accordance with requirements in Section 01 31 00 "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks and existing conditions. If discrepancies are discovered, notify Architect and Owner promptly.
B. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Architect.

3.4 INSTALLATION

A. Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
    1. Make vertical work plumb, and make horizontal work level.
    2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
    3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.
    4. Maintain minimum headroom clearance of 96 inches in occupied spaces and 90 inchesin unoccupied spaces, unless otherwise indicated on Drawings.
B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
C. Install products at the time and under conditions that will ensure satisfactory results as judged by Architect. Maintain conditions required for product performance until Substantial Completion.
D. Conduct construction operations, so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy of type expected for Project.
E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on-site and placement in permanent locations.
F. Tools and Equipment: Select tools or equipment that minimize production of excessive noise levels.

G. Templates: Obtain and distribute to the parties involved templates for Work specified to be factory prepared and field installed. Check Shop Drawings of other portions of the Work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.

H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions with manufacturer.
   1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
   2. Allow for building movement, including thermal expansion and contraction.
   3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

I. Joints: Make joints of uniform width. Where joint locations in exposed Work are not indicated, arrange joints for the best visual effect, as judged by Architect. Fit exposed connections together to form hairline joints.

3.5 CUTTING AND PATCHING

A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
   1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.

C. Temporary Support: Provide temporary support of Work to be cut.

D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

E. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching in accordance with requirements as provided by Owner.

F. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas. Coordinate with Architect and Owner prior to any demolition or alteration of existing utility services.

G. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
   1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
   2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
   3. Concrete: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.

4. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
5. Proceed with patching after construction operations requiring cutting are complete.

H. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as practicable, as judged by Architect. Provide materials and comply with installation requirements specified in other Sections, where applicable.
1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
b. Restore damaged pipe covering to its original condition.
3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch, corner to corner of wall and edge to edge of ceiling. Provide additional coats until patch blends with adjacent surfaces.
4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.

I. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.6 COORDINATION OF OWNER'S PORTION OF THE WORK

A. Site Access: Provide access to Project site for Owner's construction personnel and Owner's separate contractors.
1. Provide temporary facilities required for Owner-furnished, Contractor-installed and Owner-furnished, Owner-installed products.

B. Coordination: Coordinate construction and operations of the Work with work performed by Owner's construction personnel and Owner's separate contractors.
1. Construction Schedule: Inform Owner of Contractor's preferred construction schedule for Owner's portion of the Work. Adjust construction schedule based on a mutually agreeable timetable. Notify Owner if changes to schedule are required due to differences in actual construction progress.
2. Preinstallation Conferences: Include Owner's construction personnel and Owner's separate contractors at preinstallation conferences covering portions of the Work that are to receive Owner's work. Attend preinstallation conferences conducted by Owner's construction personnel if portions of the Work depend on Owner's construction.

3.7 PROGRESS CLEANING

A. Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
   1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
   2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 degrees F.
   3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
      a. Use containers intended for holding waste materials of type to be stored.
   4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.

B. Site: Maintain Project site free of waste materials and debris.

C. Work Areas: Clean areas where Work is in progress to the level of cleanliness necessary for proper execution of the Work.
   1. Remove liquid spills promptly.
   2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
   3. Coordinate with Owner on facility standard requirements for containment of Work.

D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.

F. Exposed Surfaces: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.

H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

J. Limiting Exposures: Supervise construction operations to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.8 STARTING AND ADJUSTING

A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.

B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.

C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

3.9 PROTECTION OF INSTALLED CONSTRUCTION

A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
B. Protection of Existing Items: Provide protection and ensure that existing items to remain undisturbed by construction are maintained in condition that existed at commencement of the Work.
C. Comply with manufacturer's written instructions for temperature and relative humidity.

3.10 CORRECTION OF THE WORK

A. Repair or remove and replace damaged, defective, or nonconforming Work. Restore damaged substrates and finishes.
    1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
B. Repair Work previously completed and subsequently damaged during construction period. Repair to like-new condition.
C. Restore permanent facilities used during construction to their specified condition.
D. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
E. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.
F. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION

SECTION 02 41 19 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Demolition and removal of selected portions of building or structure.
   2. Demolition and removal of selected site elements.
   3. Salvage of existing items to be reused or recycled.

B. Related Requirements:
   1. Division 01 Specification Sections apply to Work of this Section.
   2. Section 01 10 00 "Summary" for restrictions on the use of the premises, Owner-occupancy requirements, and phasing requirements.
   3. Section 01 73 00 "Execution" for cutting and patching procedures.

1.2 DEFINITIONS

A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled.

B. Remove and Salvage: Carefully detach from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse.

C. Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall where indicated.

D. Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.3 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
   1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.4 PREINSTALLATION MEETINGS

A. Predemolition Conference: Conduct conference at Project site, exact meeting location, date and time to be coordinated with Owner.
   1. Inspect and discuss condition of construction to be selectively demolished.
   2. Review structural load limitations of existing structure.
   3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
   4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
   5. Review areas where existing construction is to remain and requires protection.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For refrigerant recovery technician.
B. Proposed Protection Measures: Submit report, including drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control, and for noise control. Indicate proposed locations and construction of barriers.
C. Schedule of Selective Demolition Activities: Indicate the following:
    1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's building manager's on-site operations are uninterrupted.
    2. Interruption of utility services. Indicate how long utility services will be interrupted.
    3. Coordination for shutoff, capping, and continuation of utility services.
    4. Use of elevator and stairs.
    5. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
D. Inventory: Submit a list of items to be removed and salvaged and deliver to Owner prior to start of demolition.
E. Predemolition Photographs or Video: Submit before Work begins.
F. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.
G. Warranties: Documentation indicated that existing warranties are still in effect after completion of selective demolition.

1.6 CLOSEOUT SUBMITTALS

A. Inventory: Submit a list of items that have been removed and salvaged.
B. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

1.7 QUALITY ASSURANCE

A. Refrigerant Recovery Technician Qualifications: Certified by an EPA-approved certification program.

1.8 FIELD CONDITIONS

A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
    1. Before selective demolition, Owner will remove the following items:
        a. Non-Fixed supply shelves Sterile/Non-Sterile Supplies Non-Fixed medical equipment Freestanding furniture.
C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

D. Hazardous Materials: Hazardous materials are present in buildings and structures to be selectively demolished. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present.
   1. Hazardous material remediation is specified elsewhere in the Contract Documents.
   2. Do not disturb hazardous materials or items suspected of containing hazardous materials except under procedures specified elsewhere in the Contract Documents.
   3. Owner will provide material safety data sheets for suspected hazardous materials that are known to be present in buildings and structures to be selectively demolished because of building operations or processes performed there.

PART 2 - PRODUCTS

2.1 PEFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
B. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
B. Review record documents of existing construction provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Record Documents.
C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.
E. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations. Do not remove or alter structural components without written approval.
   1. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.
F. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs.
   1. Comply with requirements specified.
   2. Inventory and record the condition of items to be removed and salvaged. Provide photographs of conditions that might be misconstrued as damage caused by salvage operations.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
   1. Comply with requirements for existing services/systems interruptions specified in Section 01 10 00 "Summary."

B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
   1. Building manager will arrange to shut off indicated services/systems when requested by Contractor.
   2. Arrange to shut off indicated utilities with utility companies.
   3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
   4. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated to be removed.
      a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
      b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material.
      c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
      d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
      e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
      f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
      g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material.

C. Refrigerant: Remove refrigerant from mechanical equipment to be selectively demolished according to 40 CFR 82 and regulations of authorities having jurisdiction.

3.3 PREPARATION

A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
   1. Comply with requirements for access and protection specified in Section 01 50 00 "Temporary Facilities and Controls."

B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
   1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
   2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
   3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.

4. Cover and protect furniture, furnishings, and equipment that have not been removed.
5. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Section 01 50 00 "Temporary Facilities and Controls."

C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
1. Strengthen or add new supports when required during progress of selective demolition.

3.4 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations.
5. Maintain adequate ventilation when using cutting torches.
6. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
7. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
8. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
9. Dispose of demolished items and materials promptly.

B. Removed and Salvaged Items:
1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify contents of containers.
3. Store items in a secure area until delivery to Owner.
4. Transport items to Owner's storage area designated by Owner.
5. Protect items from damage during transport and storage.

C. Removed and Reinstalled Items:
1. Clean and repair items to functional condition adequate for intended reuse.
2. Pack or crate items after cleaning and repairing. Identify contents of containers.
3. Protect items from damage during transport and storage.
4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

D. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned, and reinstalled in their original locations after selective demolition operations are complete.

E. Remove and replace work which does not conform to the Contract Documents at no addition expense to Owner. Notify and review discrepancies with Owner and Architect for approval prior to removal.

3.5 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

A. Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals using power-driven saw, then remove concrete between saw cuts.

B. Resilient Floor Coverings: Remove floor coverings and adhesive according to recommendations in RFCI's "Recommended Work Practices for the Removal of Resilient Floor Coverings." Do not use methods requiring solvent-based adhesive strippers.

3.6 DISPOSAL OF DEMOLISHED MATERIALS

A. General: Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.
   1. Do not allow demolished materials to accumulate on-site.
   2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
   3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
   4. Comply with requirements specified.

B. Burning: Do not burn demolished materials.

C. Burning: Burning of demolished materials will be permitted only at designated areas on Owner's property, provided required permits are obtained. Provide full-time monitoring for burning materials until fires are extinguished.

D. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

3.7 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION

BSA Health System

BSA GI Lab Renovation

1600 Wallace Blvd, Amarillo, TX 79106

Parkhill

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SHEET INDEX

GENERAL

G-001	Cover Sheet & Sheet Index
G-011	Symbols, Legends & Abbreviations
G-021	Accessibility Standards
G-022	Accessibility Standards
G-101	Life Safety Information

ARCHITECTURAL

A-001	Architectural & Interior Legends
A-002	Interior Partition Schedule
A-101	Demolition Plan
A-102	Demolition Reflected Ceiling Plan
A-105	Proposed Phasing Plan
A-111	Dimensioned Floor Plan
A-113	Annotation Floor Plan
A-131	Reflected Ceiling Plan
A-211	Interior Elevations
A-601	Door & Glazing Schedule
A-701	Interior Legends & Abbreviations
A-721	Floor Finish Plan
A-722	Wall Finish Plan

FIRE PROTECTION

F-111	Fire Protection Plan - First Floor

PLUMBING

P-000	Plumbing Specifications
P-001	Plumbing Symbols, Legends & Abbreviations
P-101	Plumbing & Medical Gas Demolition Plan - First Floor
P-111	Plumbing & Medical Gas Plan - First Floor

MECHANICAL

M-000	Mechanical Specifications
M-001	Mechanical Symbols, Legends & Abbreviations
M-101	Mechanical Demolition Plan - First Floor
M-111	Mechanical Plan - First Floor

ELECTRICAL

E-001	Electrical Symbols, Legends & Abbreviations
E-100	Electrical Plan - Overall
E-101	Electrical Demolition Plan - GI Lab Renovation
E-111	Electrical Plan - GI Lab Renovation

1

Parkhill

REGISTERED ARCHITECT
DAVID M. AUSTIN
31548
STATE OF TEXAS

07/29/2024

Parkhill.com

BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	ISSUED FOR CONSTRUCTION

Cover Sheet & Sheet Index

G-001

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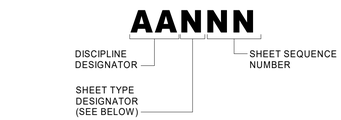
ABBREVIATIONS

A	
ACC	ACCESSIBLE
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
	ADJACENT
	ADJOINING
ADD	ADDENDUM
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX	APPROXIMATE
ARCH	ARCHITECT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
AUTO	AUTOMATIC
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
AWS	AMERICAN WELDING SOCIETY
A/C	AIR CONDITION
B	
BAL	BALANCE
BC	BACK OF CURB
BIA	BRICK INSTITUTE OF AMERICA
BITUM	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BM	BENCHMARK
BOCA	BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC.
BOS	BOTTOM OF STEEL
BOT	BOTTOM (BOTTOM FACE, LAYER, SIDE)
B PL	BASE PLATE
BRDG	BRIDGING
BRG	BEARING
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
C	
C	CHANNEL
CU FT	CUBIC FOOT
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CG	CORNER GUARD
CI	CAST IRON
CIR	CIRCLE
CIRC	CIRCULAR
CJ	CONTROL JOINT
	CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
cm	CENTIMETER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONTR	CONTRACTOR
CRCMF	CIRCUMFERENCE
CSK	COUNTER SUNK
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
D	
D	DEPTH
DAT	DATUM
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVIDE
DL	DEAD LOAD
DS	DOWNSPOUT
DWG	DRAWING
E	
E	EAST, MODULUS OF ELASTICITY
EA	EACH
EF	EACH FACE, EXTERIOR FINISH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXST	EXISTING
EXP	EXPANSION
EXP BT	EXPANSION BOLT
EXT	EXTERIOR
F	
FD	FLOOR DRAIN
FDTN	FOUNDATION
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF EL	FINISH FLOOR ELEVATION
FIN FLR	FINISH FLOOR
FIN	FINISH(ED)
FOC	FACE OF CONCRETE, FACE OF CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FRTW	FIRE RETARDANT TREATED WOOD
FS	FAR SIDE (FACE, LAYER)
FT	FOOT
FTG	FOOTING
FURG	FURRING
G	
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GOVT	GOVERNMENT
GYP BD	GYPSUM BOARD
GYP	GYPSUM
H	
HDBD	HARDBOARD
HDWD	HARDWOOD
HDW	HARDWARE
HEX	HEXAGON(AL)
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HEAT PUMP
HR	HOUR
HS	HIGH STRENGTH
HT	HEIGHT
HVAC	HEATING VENTILATING AND AIR CONDITIONING
I	
I	MOMENT OF INERTIA
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IF	INSIDE FACE
INCL	INCLUDE(D)(ING)(SIVE)
INS	INSULATION
INT	INTERIOR
INV	INVERT(ED)(ER)
J	
JAN	JANITOR
K	
NOT USED	
L	
L	ANGLE
	LITER
LBS	POUND
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LT WT	LIGHT WEIGHT
M	
m	METER(S)
MAU	MAKE UP AIR UNIT(S)
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MCJ	MASONRY CONTROL JOINT
MECH	MECHANIC(AL)
MFG	MANUFACTURING
MFR	MANUFACTURER
MIL STD	MILITARY STANDARD
MIN	MINIMUM
MISC	MISCELLANEOUS
MLWK	MILLWORK
mm	MILLIMETER
MO	MASONRY OPENING
MOD	MODIFY
MT	METAL THRESHOLD
MTD	MOUNTED
MTL	METAL
N	
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NBS	NATIONAL BUREAU OF STANDARDS
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NOM	NOMINAL
NR	NO RATING / NOT RATED
NRC	NOISE REDUCTION COEFFICIENT
NS	NEAR SIDE (FACE)
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFD	OVERFLOW DRAIN
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OH DR	OVERHEAD DOOR
OPNG	OPENING
OPH	OPPOSITE HAND
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OZ	OUNCE
P	
PAR	PARALLEL
PBD	PARTICLE BOARD
PCA	PORTLAND CEMENT ASSOCIATION
PCF	POUNDS PER CUBIC FOOT
PCI	PRESTRESSED CONCRETE INSTITUTE
PERF	PERFORATE(D)
PERP	PERPENDICULAR
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PR	PAIR
PREFAB	PREFABRICATE
PREFIN	PREFINISH
PRELIM	PRELIMINARY
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTD	PAPER TOWEL DISPENSER
PTDR	PAPER TOWEL DISPENSER RECEPTACLE
PVC	POLYVINYL CHLORIDE
PVG	PAVING
Q	
QC	QUALITY CONTROL
QTY	QUANTITY
R	
R	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFL	REFLECT
REINF	REINFORCE
REQD	REQUIRED
REV	REVISION
RH	RIGHT HAND(ED)
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
S	
S	SOUTH
SBCCI	SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL
SCHED	SCHEDULE
SD	SOAP DISPENSER
SDI	STEEL DOOR INSTITUTE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SPEC	SPECIFICATION
SP	SOLID PLASTIC
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYMM	SYMMETRICAL
T	
T	TREAD
TAN	TANGENT
TEMP	TEMPORARY
TFF	TOP OF FINISH FLOOR
THK	THICKNESS
TMH	TOP OF MANHOLE
TOB	TOP OF BEAM
TOC	TOP OF CURB
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPH	TOILET PAPER HOLDER
TRANS	TRANSPARENT
TRTD	TREATED
TS	TUBE STEEL
TYP	TYPICAL
T&G	TONGUE AND GROOVE
U	
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITERS LABORATORIES
ULT	ULTIMATE
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
V	
VAR	VARIES
VERT	VERTICAL
W	
W	WEST
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WC	WATER CLOSET
WLD	WELDED
WP	WORK POINT
WWF	WELDED WIRE FABRIC
X	
XFMR	TRANSFORMER
Y	
NOT USED	
Z	
NOT USED	

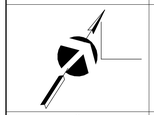
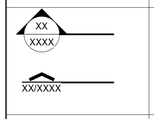
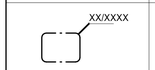
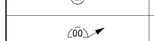
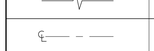
SHEET IDENTIFICATION FORMAT



SHEET TYPE DESIGNATORS

0	GENERAL (COVER SHEETS, INDEX, SYMBOLS LEGEND, NOTES, ETC.)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS (VERTICAL VIEWS)
3	SECTIONS (SECTIONAL VIEWS)
4	LARGE SCALE VIEWS (ENLARGED PLANS, ELEVATIONS, OR SECTIONS THAT ARE NOT DETAILS)
5	DETAILS
6	SCHEDULES AND DIAGRAMS
7	USER DEFINED (FOR TYPES THAT DO NOT FALL IN OTHER CATEGORIES)
8	USER DEFINED (FOR TYPES THAT DO NOT FALL IN OTHER CATEGORIES)
9	3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES, PHOTOGRAPHS)

GENERAL DRAWING LEGEND

	NEW DOOR
	EXISTING DOOR
	PLAN NORTH ARROW TRUE NORTH PLAN NORTH
	ELEVATION MARK
	SECTION MARK
	PLAN DETAIL MARK
	DRAWING TITLE
	SHEET NUMBER WHERE REFERENCED REFERENCE NUMBER
	ROOM NAME ROOM NUMBER
	FURNISHINGS/EQUIPMENT
	KEY NOTE
	KEY DEMOLITION NOTE
	REVISION
	STRUCTURAL COLUMN LINE
	DATUM ELEVATION (EXISTING)
	DATUM ELEVATION (NEW)
	BREAK LINE
	CENTER LINE
	MATCH/DIVIDE LINE
	NOT IN SCOPE

Parkhill

07/29/2024

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BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT

BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.

43007.24

KEY PLAN

#	DATE	DESCRIPTION
-	07/29/2024	ISSUED FOR CONSTRUCTION

Symbols, Legends & Abbreviations

G-011

9/2/2025 12:27:40 PM

R_v24

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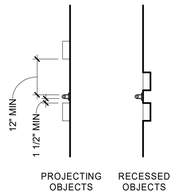
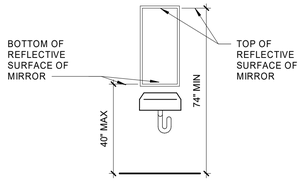
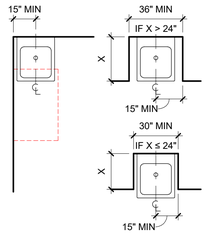
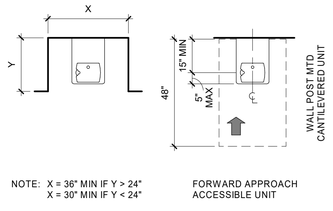
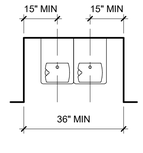
E. GRAPHICS SHOWN ARE FOR ADULTS.

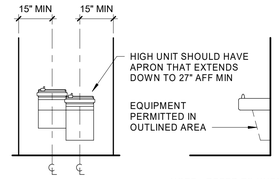




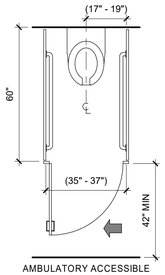




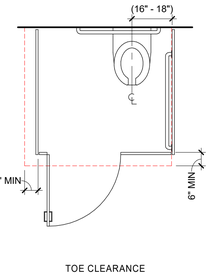




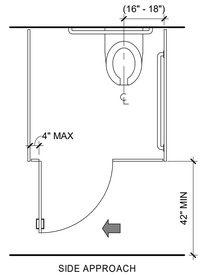
GRAB BAR SPACING



AMBULATORY ACCESSIBLE

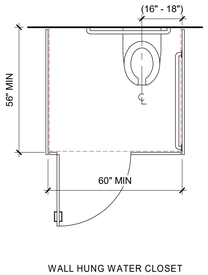


TOE CLEARANCE

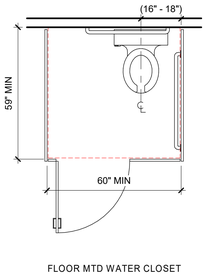


SIDE APPROACH

REFLECTIVE SURFACES

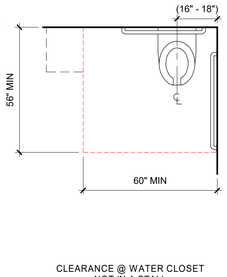


WALL HUNG WATER CLOSET



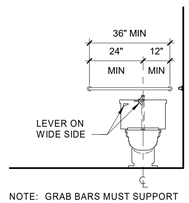
FLOOR MTD WATER CLOSET

LAVATORIES

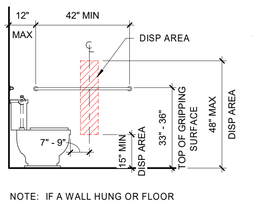


CLEARANCE @ WATER CLOSET NOT IN A STALL

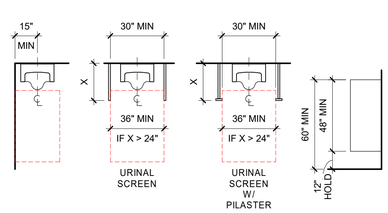
EWC/DRINKING FOUNTAINS



NOTE: GRAB BARS MUST SUPPORT 250 LBS AND BE CONTINUOUS

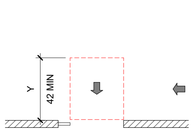


NOTE: IF A WALL HUNG OR FLOOR MOUNTED FLUSH VALVE WATER CLOSET IS SPECIFIED, ENSURE ALL DIMENSIONS SHOWN ARE MET



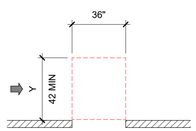
REFER GRAB BAR SPACING FOR ADDITIONAL INFORMATION

TYPICAL TOILET STALLS



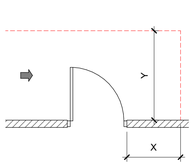
FOLDING DOOR

FRONT APPROACH

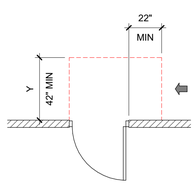


NO DOOR

SIDE APPROACH

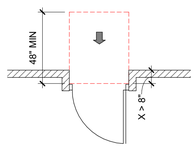


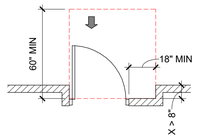
NOTE: X = 36" MIN IF Y = 60" MIN
X = 42" MIN IF Y = 54" MIN



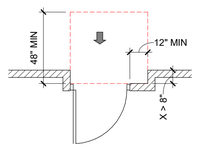
NOTE: Y = 48" MIN IF DOOR HAS BOTH A CLOSER AND A LATCH

HINGE SIDE APPROACHES SWINGING DOORS

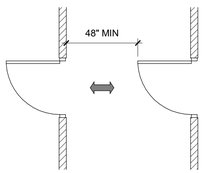




RECESSED DOORS

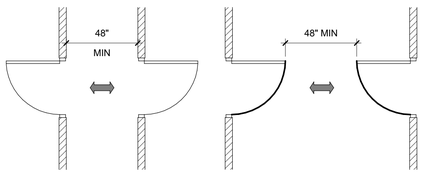


CLOSER AND A LATCH PROVIDED

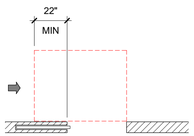


NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES

URINALS

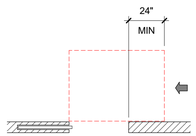


TWO HINGED DOORS IN SERIES



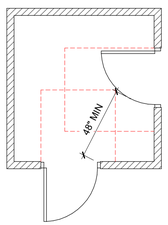
POCKET

POCKET OR HINGE APPROACH

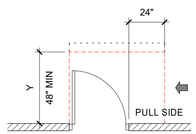


POCKET

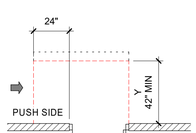
STOP OR LATCH APPROACH



VESTIBULE DOORS

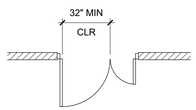


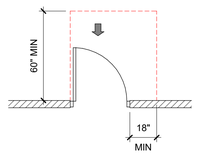
NOTE: Y = 54" MIN IF DOOR HAS A CLOSER



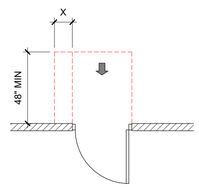
NOTE: Y = 48" MIN IF DOOR HAS A CLOSER

LATCH SIDE APPROACHES SWINGING DOORS

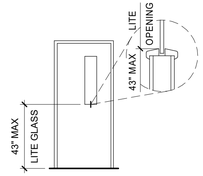




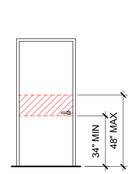
FRONT APPROACHES SWINGING DOORS



NOTE: X = 12" MIN IF DOOR HAS BOTH A CLOSER AND A LATCH



DOOR LITE



DOOR HARDWARE

TYPICAL SLIDING DOOR CLEARANCES

TYPICAL HINGED DOOR CLEARANCES

TYPICAL WATER CLOSETS

9/2/2025 12:27:42 PM

R. v24

Parkhill

REGISTERED ARCHITECT DAVID M. AUSTIN 31548 STATE OF TEXAS

07/29/2024

Parkhill.com

BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
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Accessibility Standards

G-021

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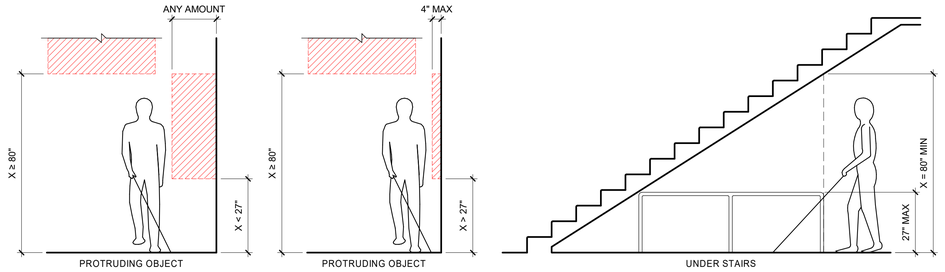
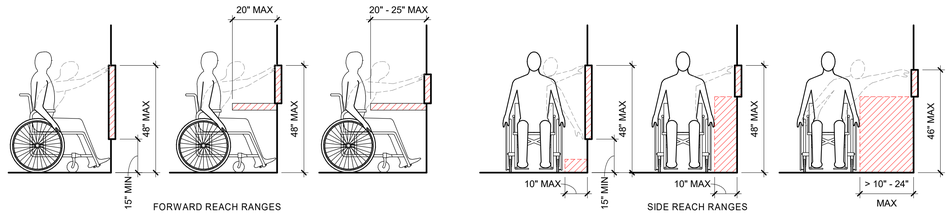
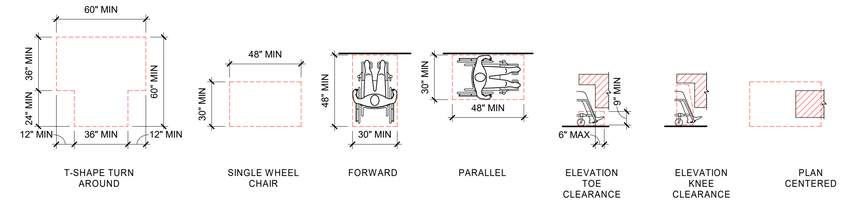
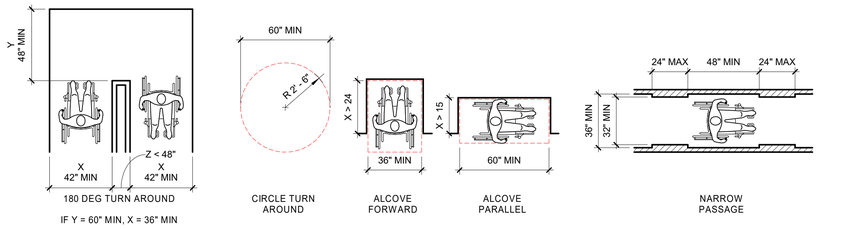
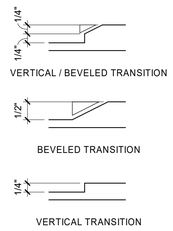




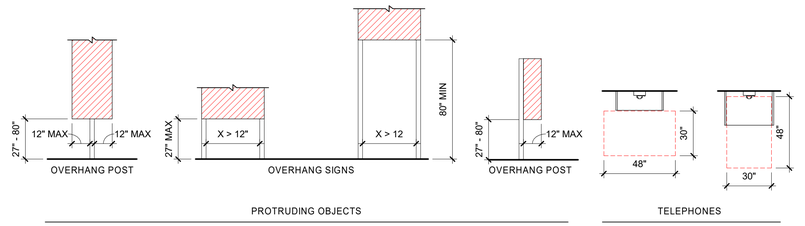




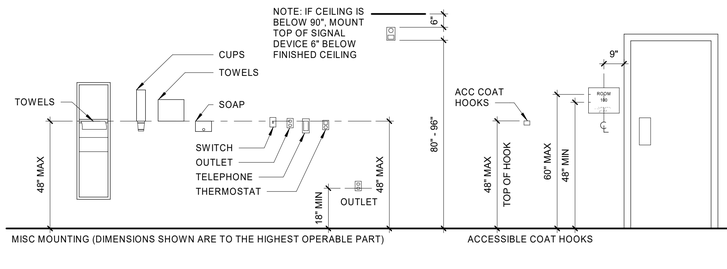
PROTRUDING OBJECT PROTECTION/REACH RANGES



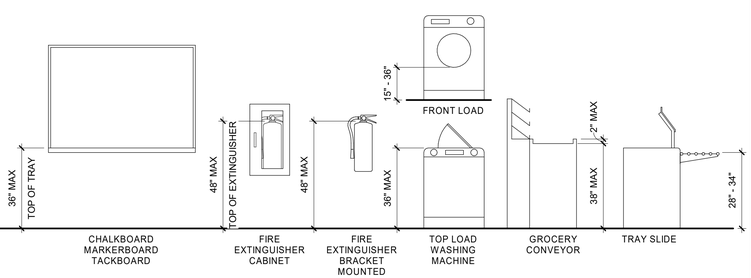
CLEAR FLOOR AREA/ACCESSIBLE ROUTE



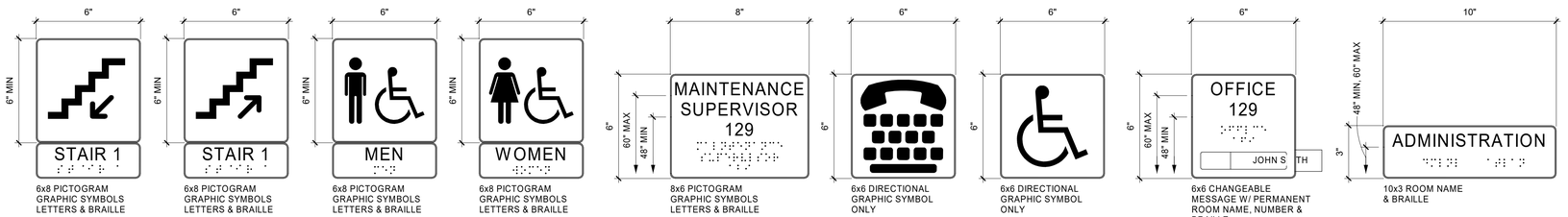
CHANGES IN LEVEL



PROTRUDING OBJECTS/TELEPHONES



STANDARD ACCESSIBLE MOUNTING HEIGHTS



EXAMPLE SIGNAGE - SEE STANDARD ACCESSIBLE ~~MOUNTING HEIGHT~~

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07/29/2024

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CLIENT
BSA Health System

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-	07/29/2024	ISSUED FOR CONSTRUCTION

Accessibility Standards

G-022

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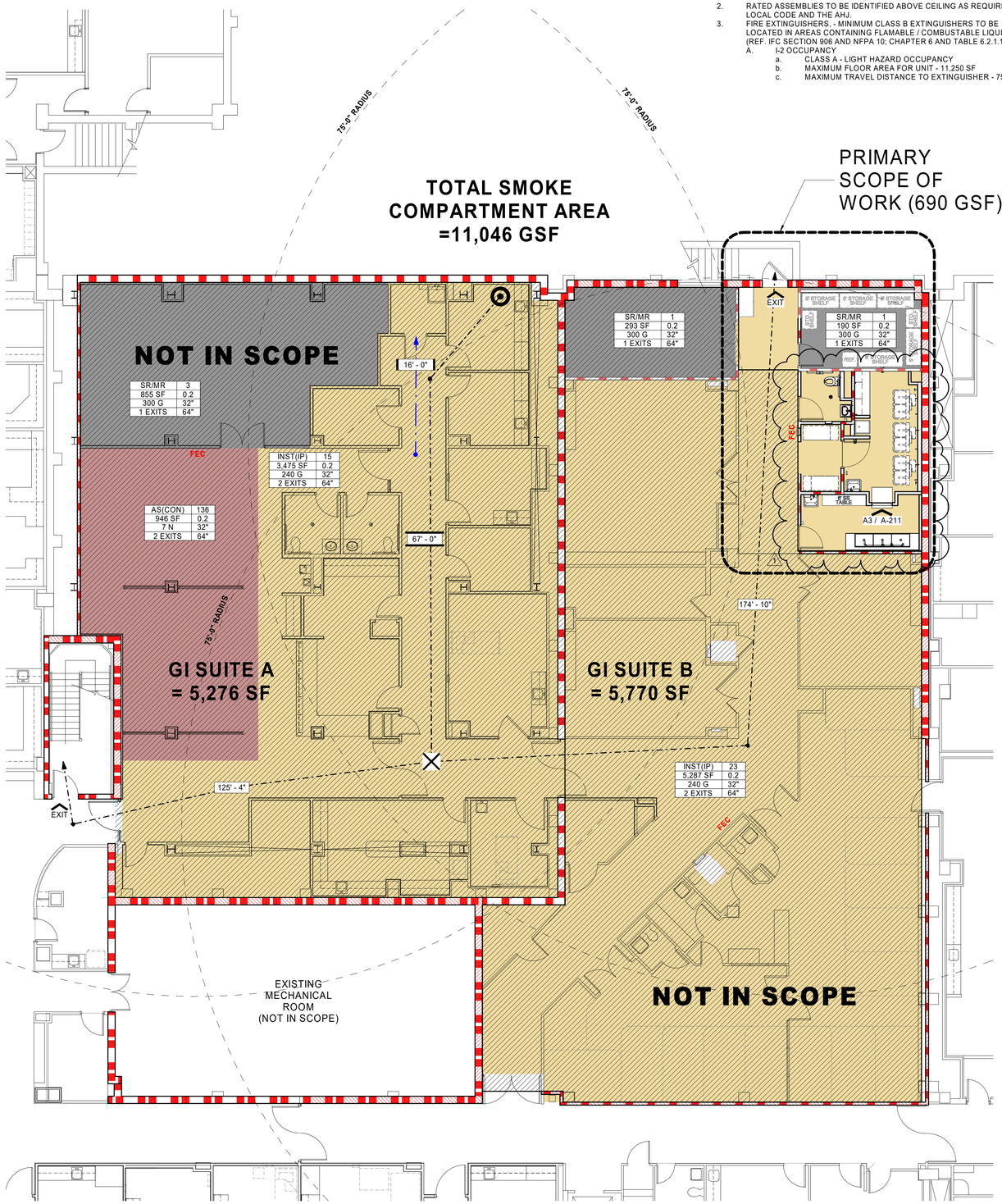
GENERAL NOTES

1. UL ASSEMBLIES INDICATED ESTABLISH BASIS PERFORMANCE. OTHER ASSEMBLIES MAY BE CONSIDERED AT DISCRETION OF ARCHITECT IF EQUIVALENT PERFORMANCE IS PROVIDED. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO COMPONENTS OF ASSEMBLY.
2. RATED ASSEMBLIES TO BE IDENTIFIED ABOVE CEILING AS REQUIRED BY LOCAL CODE AND THE AHJ.
3. FIRE EXTINGUISHERS, - MINIMUM CLASS B EXTINGUISHERS TO BE LOCATED IN AREAS CONTAINING FLAMABLE / COMBUSTABLE LIQUIDS. (REF. IFC SECTION 906 AND NFPA 10; CHAPTER 6 AND TABLE 6.2.1.1)
   A. I-2 OCCUPANCY
      a. CLASS A - LIGHT HAZARD OCCUPANCY
      b. MAXIMUM FLOOR AREA FOR UNIT - 11,250 SF
      c. MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER - 75 FT.



A1 PARTIAL LIFE SAFETY PLAN
1/8" = 1'-0"

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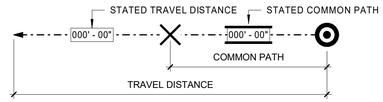
LEGEND

EXIT — EGRESS EXIT REQUIRED

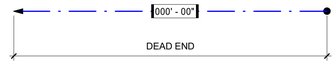
RATED ASSEMBLIES

- 1 HOUR FIRE PARTITION
- 2 HOUR FIRE BARRIER
- 1 HOUR FIRE SMOKE PARTITION
- 2 HOUR FIRE SMOKE BARRIER

EGRESS PATH, TRAVEL DISTANCE AND COMMON PATH

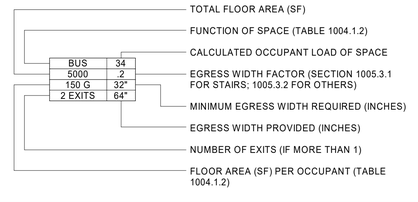


DEAD END CORRIDOR



ABBREVIATIONS

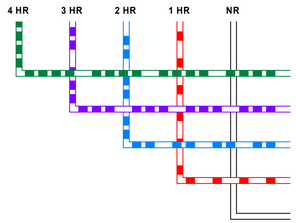
200'	DISTANCE BETWEEN EXITS
EW=36"	EXIT WIDTH PROVIDED AT SPECIFIC EXIT
GSF	GROSS SQUARE FOOT
NSF	NET SQUARE FOOT
FEC	FIRE EXTINGUISHER CABINET
TD	TRAVEL DISTANCE
CPOT	COMMON PATH OF TRAVEL
(M)DBE	(MINIMUM) DISTANCE BETWEEN EXITS
OL	OCCUPANT LOAD



PLUMBING FIXTURE RQMTS - IPC

OCC:	USE GROUP	OCCUPANT LOAD (ACTUAL)	DESCRIPTION:	WATER CLOSET M	WATER CLOSET F	URINALS	LAV M	LAV F	DRINK FOUNT. REF IPC 410	OTHER SERVICE SINK	
I	2	38									
			TOTAL REQUIRED	1.52		X	1.09		.38	.1	
S	1	5									
			TOTAL REQUIRED	.05		X	.05		.01	.1	
A	3	136									
			TOTAL REQUIRED	2.1		X	.68		.28	.1	
			TOTAL REQUIRED	3.67		X	1.82		.67	.1	
			TOTAL PROVIDED	5		X	5		1	2	

PARTITION PRIORITY



NOTES

1. HIGHEST IDENTIFIED RATED WALL ASSEMBLY SHALL TAKE PRIORITY OVER LESSER IDENTIFIED RATED WALLS AND MAINTAIN CONTINUITY THROUGHOUT THE ENTIRE RUN OF WALL TO THE EXTERIOR SHEATHING, A HIGHER RATED WALL ASSEMBLY OR OTHER APPROVED ASSEMBLY.
2. TREAT ALL JOINTS AND PENETRATIONS WITH APPROPRIATE SYSTEM TO MAINTAIN WALL INTEGRITY.

GENERAL CONSTRUCTION INFORMATION

APPLICABLE CODES:

BUILDING	IBC 2021
PLUMBING	IPC 2021
MECHANICAL	IMC 2021
ELECTRICAL	NFPA 70
FIRE	IFC 2021
ENERGY	IECC 2015
ACCESSIBILITY	2012 TAS, 2010 ADA/SAD
OTHER	AMENDED CODES BY LOCAL JURISDICTION

OCCUPANCY: I-2 INSTITUTIONAL

CONSTRUCTION TYPE: TYPE I-A

SPRINKLED: FULLY SPRINKLED

PROJECT AREA & SCOPE CALCUATIONS:

PROJECT AREA (SMOKE COMPARTMENT)	= 11,046 TOTAL GSF
PROJECT SCOPE (ACTUAL RENOVATION AREA)	= 690 TOTAL GSF

EGRESS

TOTAL OCCUPANT LOAD FOR THE BUILDING	179
TOTAL OCCUPANT LOAD EGRESS WILL ACCOMMODATE	320
REQUIRED CAPACITY BASED ON OCCUPANT LOAD (IN)	
179 x 0.3 (SECTION 1005.3.1 STAIRWAYS)	53.7 INCHES
179 x 0.2 (SECTION 1005.3.2 OTHER EGRESS COMPONENTS)	
PROVIDED CAPACITY (INCHES)	
STAIRWAYS	64 INCHES
OTHER EGRESS COMPONENTS	

MAXIMUM ALLOWABLE TRAVEL DISTANCE	200 FEET
LONGEST TRAVEL DISTANCE	175 FEET

MAXIMUM DEAD END LIMIT	20 FEET
MAXIMUM DEAD END LIMIT PROVIDED	16 FEET

COMMON PATH OF EGRESS TRAVEL	75 FEET
COMMON PATH OF EGRESS TRAVEL PROVIDED	67 FEET

TWO EXITS REQUIRED WHERE OCCUPANT LOAD EXCEEDS	10

MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD	
1-500	2 EXITS
501-1000	3 EXITS
MORE THAN 1000	4 EXITS

OCCUPANT LOAD TABLE (2018, 2021)

FUNCTION OF SPACE (1004.5)	OCC PER SF
ACCESSORY STORAGE AREAS, MECHANICAL, EQUIPMENT ROOM	300 GROSS
AGRICULTURE BUILDING	300 GROSS
AIRCRAFT HANGAR	500 GROSS
AIRPORT TERMINAL	
BAGGAGE CLAIM	20 GROSS
BAGGAGE HANDLING	300 GROSS
CONCOURSE	100 GROSS
WAITING AREAS	15 GROSS
ASSEMBLY	
GAMING FLOORS (KENO, SLOTS, ETC.)	11 GROSS
EXHIBIT GALLERY AND MUSEUM	30 NET
ASSEMBLY W/ FIXED SEATS	SEE SECTION 1004.6
ASSEMBLY W/O FIXED SEATS	
CONCENTRATED (CHAIRS ONLY-NOT FIXED)	7 NET
STANDING SPACE	5 NET
UNCONCENTRATED (TABLES AND CHAIRS)	15 NET
BOWLING CENTERS, ALLOW 5 PERSONS FOR EACH LANE INCLUDING 15 FEET OF RUNWAY, AND FOR ADDITIONAL AREAS	7 NET
BUSINESS AREAS	150 GROSS
CONCENTRATED BUSINESS USE AREA	SEE SECTION 1004.8
COURT ROOMS-OTHER THAN FIXED SEATING AREAS	40 NET
DAY CARE	35 NET
DORMITORIES	50 GROSS
EDUCATIONAL	
CLASSROOM AREA	20 NET
SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 NET
EXERCISE ROOMS	50 GROSS
H-5 FABRICATION AND MANUFACTURING AREAS	200 GROSS
INDUSTRIAL	100 GROSS
INSTITUTIONAL AREAS	
INPATIENT TREATMENT AREAS	240 GROSS
OUTPATIENT AREAS	100 GROSS
SLEEPING AREAS	120 GROSS
KITCHENS, COMMERCIAL	200 GROSS
LIBRARY	
READING ROOM	50 NET
STACK AREA	100 GROSS
LOCKER ROOMS	50 GROSS
MALL BUILDINGS - COVERED AND OPEN	SEE SECTION 402.8.2
MERCANTILE	
AREAS ON OTHER FLOORS	60 GROSS
STORAGE, STOCK, SHIPPING AREAS	300 GROSS
PARKING GARAGES	200 GROSS
RESIDENTIAL	200 GROSS
SKATING RINKS, SWIMMING POOLS	
RINK AND POOL	50 GROSS
DECKS	15 GROSS
STAGES AND PLATFORMS	15 NET
WAREHOUSES	500 GROSS

Parkhill

REGISTERED ARCHITECT DAVID M. AUSTIN 31548 STATE OF TEXAS

07/29/2024

Parkhill.com

BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT

BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.

43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	ISSUED FOR CONSTRUCTION

Life Safety Information

G-101

INTERIOR LEGEND

AA	FINISH TAG
	FIXTURES/ FURNITURE/ EQUIPMENT/ SIGNAGE
	NOT IN SCOPE

DETAIL LEGEND

	COMPACTED SOIL
	UNDISTURBED SOIL
	STONE/MARBLE
	PLASTER OR STUCCO ON METAL LATH
	STEEL
	CONCRETE IN SECTION
	BRICK
	CMU
	BATT INSULATION
	ACOUSTICAL TILE
	RIGID INSULATION
	WOOD CONTINUOUS
	WOOD DISCONTINUOUS
	PLASTER, SAND OR CEMENT GROUT
	POUROUS FILL, GRAVEL (CAPILLARY WATER BARRIER PAVEMENT BASE)
	TERAZZO (IN SECTION)

RCP LEGEND

	CEILING TRACK
CJ	CONTROL JOINT
	ACCESS PANEL
	SKYLIGHT
	GYP BD CEILING
	SUSPENDED METAL LATH AND PLASTER CEILING
	SUSPENDED ACOUSTICAL CEILING SYSTEM: TYPE A
	SUSPENDED ACOUSTICAL CEILING SYSTEM: TYPE B
	CEILING TO BE REMOVED

FLOOR PLAN LEGEND

	CONCRETE WALL
	FACE BRICK
	CMU WALL
MJ	MASONRY CONTROL JOINT
	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE REMOVED
	NEW STUD WALL
	NEW PARTIAL HEIGHT WALL
	GLAZING SYSTEM
	WIRE MESH OR FABRIC PARTITION
CG1	CORNER GUARD
CG1	END WALL GUARD
WG1	WALL GUARD
HR1	HANDRAIL
FEC	FIRE EXTINGUISHER AND CABINET
FEB	FIRE EXTINGUISHER AND BRACKET
	FURNITURE/EQUIPMENT NIC
DS	DOWN SPOUT
FD	FLOOR DRAIN
0000	DOOR NUMBER
00	WINDOW MARK
LV00	LOUVER MARK
HM00	HOLLOW METAL FRAME MARK
AL00	ALUMINUM FRAME MARK
B2b	PARTITION TYPE
AA	FINISH TAG

Parkhill

REGISTERED ARCHITECT
DAVID M. AUSTIN
31548
STATE OF TEXAS

07/29/2024

Parkhill.com

BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT

BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.

43007.24

KEY PLAN

#	DATE	DESCRIPTION
-	07/29/2024	ISSUED FOR CONSTRUCTION

Architectural & Interior Legends

A-001

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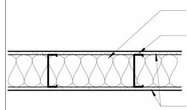
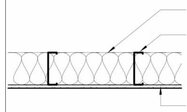
INTERIOR PARTITION SCHEDULE

A



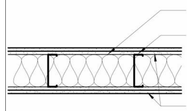
	1	2	3	4	5	6	7	8
ASSEMBLY THICKNESS	3 3/4"	3 3/4"	4 7/8"	4 7/8"	7 1/4"	7 1/4"	9 1/4"	9 1/4"
NON-STRUCTURAL METAL FRAMING	2 1/2"	2 1/2"	3 5/8"	3 5/8"	6"	6"	8"	8"
SOUND-ATTENUATION BLANKETS		REQ.		REQ.		REQ.		REQ.
UL DESIGN ASSEMBLY	U465	U465	U465	U465	U465	U465	U465	U465
FIRE RATING (IF REQUIRED BY CODE SHEET)	1 HOUR	1 HOUR	1 HOUR	1 HOUR	1 HOUR	1 HOUR	1 HOUR	1 HOUR
STC RATING	35	48	40	46		51		

B



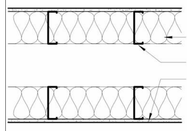
	1	2	3	4	5	6	7	8
ASSEMBLY THICKNESS	3 1/8"	3 1/8"	4 1/4"	4 1/4"	6 5/8"	6 5/8"	8 5/8"	8 5/8"
NON-STRUCTURAL METAL FRAMING	2 1/2"	2 1/2"	3 5/8"	3 5/8"	6"	6"	8"	8"
SOUND-ATTENUATION BLANKETS		REQ.		REQ.		REQ.		REQ.
UL DESIGN ASSEMBLY								
FIRE RATING (IF REQUIRED BY CODE SHEET)	NR	NR	NR	NR	NR	NR	NR	NR
STC RATING				34		37		

C



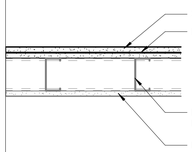
	1	2	3	4	5	6	7	8
ASSEMBLY THICKNESS	5"	5"	6 1/8"	6 1/8"	8 1/2"	8 1/2"	10 1/2"	10 1/2"
NON-STRUCTURAL METAL FRAMING	2 1/2"	2 1/2"	3 5/8"	3 5/8"	6"	6"	8"	8"
SOUND-ATTENUATION BLANKETS		REQ.		REQ.		REQ.		REQ.
UL DESING ASSEMBLY	U411	U411	U411	U411	U411	U411	U411	U411
FIRE RATING (IF REQUIRED BY CODE SHEET)	2 HOUR	2 HOUR	2 HOUR	2 HOUR	2 HOUR	2 HOUR	2 HOUR	2 HOUR
STC RATING		57		49		54		

D



	1	2	3	4	5	6
ASSEMBLY THICKNESS	PER PLAN	PER PLAN	PER PLAN	PER PLAN	PER PLAN	PER PLAN
NON-STRUCTURAL METAL FRAMING	2 1/2"	2 1/2"	3 5/8"	3 5/8"	6"	6"
SOUND ATTENUATION BLANKETS		REQ.		REQ.		REQ.
UL DESIGN ASSEMBLY	V488	V488	V488	V488	V488	V488
FIRE RATING (IF REQUIRED BY CODE SHEET)	1 HOUR	1 HOUR	1 HOUR	1 HOUR	1 HOUR	1 HOUR
STC RATING		57		60		

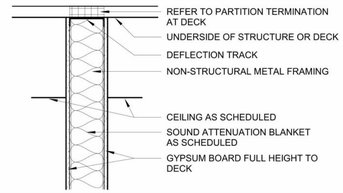
E



	1	2	3	4
ASSEMBLY THICKNESS	1 1/2"	2 1/8"	4 7/8"	PER PLAN
NON-STRUCTURAL METAL FRAMING (EXISTING)	7/8"	1 1/2"	3 5/8"	6"
UL DESIGN ASSEMBLY	V497	V497	V497	V497
FIRE RATING (IF REQUIRED BY CODE SHEET)	1 HOUR	1 HOUR	1 HOUR	1 HOUR

ABOVE CEILING CONDITION (SECTION)

a



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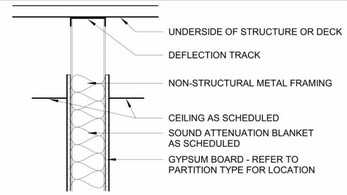

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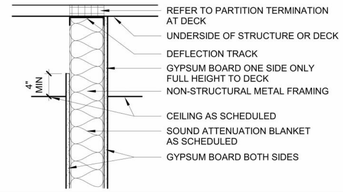

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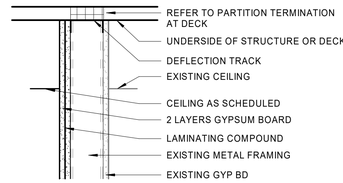

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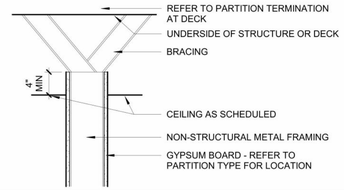

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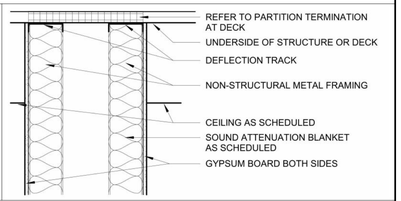
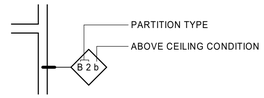


GENERAL NOTES

A. REFER SPECIFICATIONS FOR WALL SUBSTRATE AT AREAS TO RECEIVE AN APPLIED FINISH OR HUMID/WET.
B. AT WALLS SCHEDULED TO RECEIVE WALL TILE, REFER TO SPECIFICATIONS FOR SUBSTRATE MATERIAL
C. FIRE-TEST RESPONSE CHARACTERISTICS:
   a. FOR FIRE-RESISTANCE-RATED ASSEMBLIES THAT INCORPORATE NON-LOAD BEARING STEEL FRAMING, PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE TESTED IN ASSEMBLY INDICATED, ACCORDING TO ASTM E119 BY AN INDEPENDENT TESTING AGENCY. GYPSUM BOARD TO BE 5/8" THICK WITH LONG EDGES TAPERED. CEILINGS MEETING ASTM C1396/C1396M.
   b. HORIZONTAL DEFLECTION: FOR COMPOSITE AND NON COMPOSITE WALL ASSEMBLIES, LIMITED TO FOLLOWING RATIOS OF THE WALL HEIGHT BASED ON HORIZTONAL LOADING OF 5 LBF/SQ.FT.:
      - CERAMIC TILE: 1/360
      - GYPSUM BOARD AND OTHER FINISHES: 1/240
   c. DESIGN FRAMING SYSTEMS IN ACCORDANCE WITH AISI S220, "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL FRAMING - NONSTRUCTURAL MEMBERS."

PARTITION GENERAL NOTES

THE FOLLOWING PARTITION GRAPHIC SYMBOL AND THREE PART NOTATION SYSTEM IS USED IN THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT. NOTE: THE PARTITION CONSTRUCTION WILL MAINTAIN ITS DESIGNATION TO THE POINT OF AN INTERSECTING PARTITION. IF NO CHANGE IN DESIGNATION IS SHOWN BEYOND THE INTERSECTION, THE PREVIOUS PARTITION CONSTRUCTION DESIGNATION APPLIES. REFER TO CODE PLAN G-101 FOR RATED WALLS.



- WHERE SOUND-ATTENUATION BLANKETS ARE SCHEDULED :
  1. INSTALL ACOUSTICAL SEALANT AT ALL PENETRATIONS PER MANUFACTURER'S INSTRUCTIONS AT TOP AND BOTTOM OF WALLS (BOTH SIDES).
  2. PUTTY PADS AT ALL WALL PENETRATIONS INCLUDING ELECTRIC OUTLETS, IT BACK BOXES.
- ALL ASSEMBLY THICKNESSES LISTED IN THE PARTITION TYPES ARE BASED ON 5/8" THICK GYPSUM BOARD. ALTERNATE GYPSUM BOARD THICKNESSES WILL HAVE A DIFFERENT ASSEMBLY THICKNESS.
- WHERE RATED ASSEMBLY EXTENDS TO STRUCTURE ABOVE PROVIDE UL APPROVED FIRE RATED HEAD OF WALL ASSEMBLY TO MATCH RATING OF WALL. WALL HEIGHTS EXCEEDING STUD MANUFACTURER'S MAXIMUM (LIMITING) SPAN USING 5PSF LATERAL LOADING SHALL BE BRACED TO STRUCTURE ABOVE. (LAY-IN CEILINGS ARE NOT ACCEPTABLE BRACING, HARD CEILINGS ARE ACCEPTABLE).
- "STRUCTURE ABOVE" (AS NOTED IN THE PARTITION CONDITIONS) IS DEFINED AS THE UNDERSIDE OF ONE OR MORE OF THE FOLLOWING:
  - COMPOSITE FLOOR SLAB
  - STAIR TREADS/RISERS
  - METAL ROOF DECK
  - STEEL BEAMS
- IN NO CASE SHALL THE BOTTOM OF STEEL JOISTS BE CONSIDERED BOTTOM OF STRUCTURE ABOVE
- NR = NOT RATED

WALLBOARD NOTES

LOCATIONS AND TYPES OF WALLBOARD (WALLS AND/OR CEILINGS), UNLESS OTHERWISE NOTED.

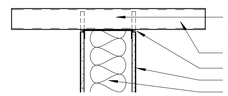
A. COMMERCIAL DRY' LOCATIONS (NO WET UTILITY FUNCTION, SUCH AS HALLWAYS, DRY AREA CEILINGS, SOFFITS, DECORATIVE/ACCENT WALLS, CORRIDOR WALLS, CLASSROOMS, OFFICES, STORAGE, ETC.), REFER TO SPECIAL LOCATIONS BELOW FOR EXCEPTIONS:
   1. PAINT OR PANEL FINISH: STANDARD GYPSUM BOARD AND/OR FIRE-RESISTANT GYPSUM BOARD
   2. FRP FINISH: MOISTURE AND MOLD-RESISTANT GYPSUM BOARD AND/OR FIRE-RESISTANT RATED WITH MOISTURE AND MOLD-RESISTANT GYPSUM BOARD
   3. TILE FINISH: CEMENT BOARD
B. 'COMMERCIAL LIMITED WATER EXPOSURE' LOCATIONS (TOILET WALLS AND WAINSCOTS, ETC.):
   1. PAINT, PANEL OR FRP FINISH: MOISTURE AND MOLD-RESISTANT GYPSUM BOARD AND/OR FIRE-RESISTANT RATED WITH MOISTURE AND MOLD-RESISTANT GYPSUM BOARD
   2. TILE FINISH: CEMENT BOARD

C. SPECIAL LOCATIONS:
   1. AREAS BEHIND OR ADJACENT TO INDIVIDUAL PLUMBING FIXTURES (DRINKING FOUNTAIN, EMERGENCY WASH STATION, LAVATORY, SINK IN MILLWORK, ETC.): PAINT OR PANEL FINISH – FIRE-RESISTANT RATED WITH MOISTURE AND MOLD-RESISTANT GYPSUM BOARD; TILE OR FRP FINISH – CEMENT BOARD. WALLBOARD AND WATER-PROOF MEMBRANE/SYSTEM SHALL EXTEND 24" (MINIMUM) PAST OUTER EDGE OF FIXTURE ON SIDES / TOP AND TO THE FINISHED FLOOR.
   2. ALL CORRIDORS: PAINT OR PANEL FINISH - HIGH IMPACT RESISTANT GYPSUM BOARD (FLOOR TO 8'-0" ABOVE FINISHED FLOOR) WITH STANDARD GYPSUM BOARD AND/OR FIRE-RESISTANT GYPSUM BOARD ABOVE 8'-0" TO STRUCTURE.

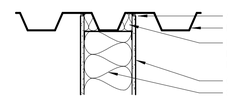
REFER TO DRAWINGS/SPECIFICATIONS FOR ADDITIONAL INFORMATION AND/OR WALLBOARDS OR FINISHES NOT LISTED ABOVE. REFER TO G-SHEETS FOR FIRE-RATED LOCATIONS. REFER TO "CERAMIC TILE" SPECIFICATION FOR ADDITIONAL INFORMATION ON "TILE BACKING PANELS", "SETTING MATERIALS" AND "WATERPROOF MEMBRANE".

PARTITION TERMINATION AT DECK

2A. PERPENDICULAR ELEVATION



2. STUD PERPENDICULAR TO DECK



1. STUD PARALLEL TO DECK

Parkhill

REGISTERED ARCHITECT DAVID M. AUSTIN 31548 STATE OF TEXAS

07/29/2024

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BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
-	07/29/2024	ISSUED FOR CONSTRUCTION

Interior Partition Schedule

A-002

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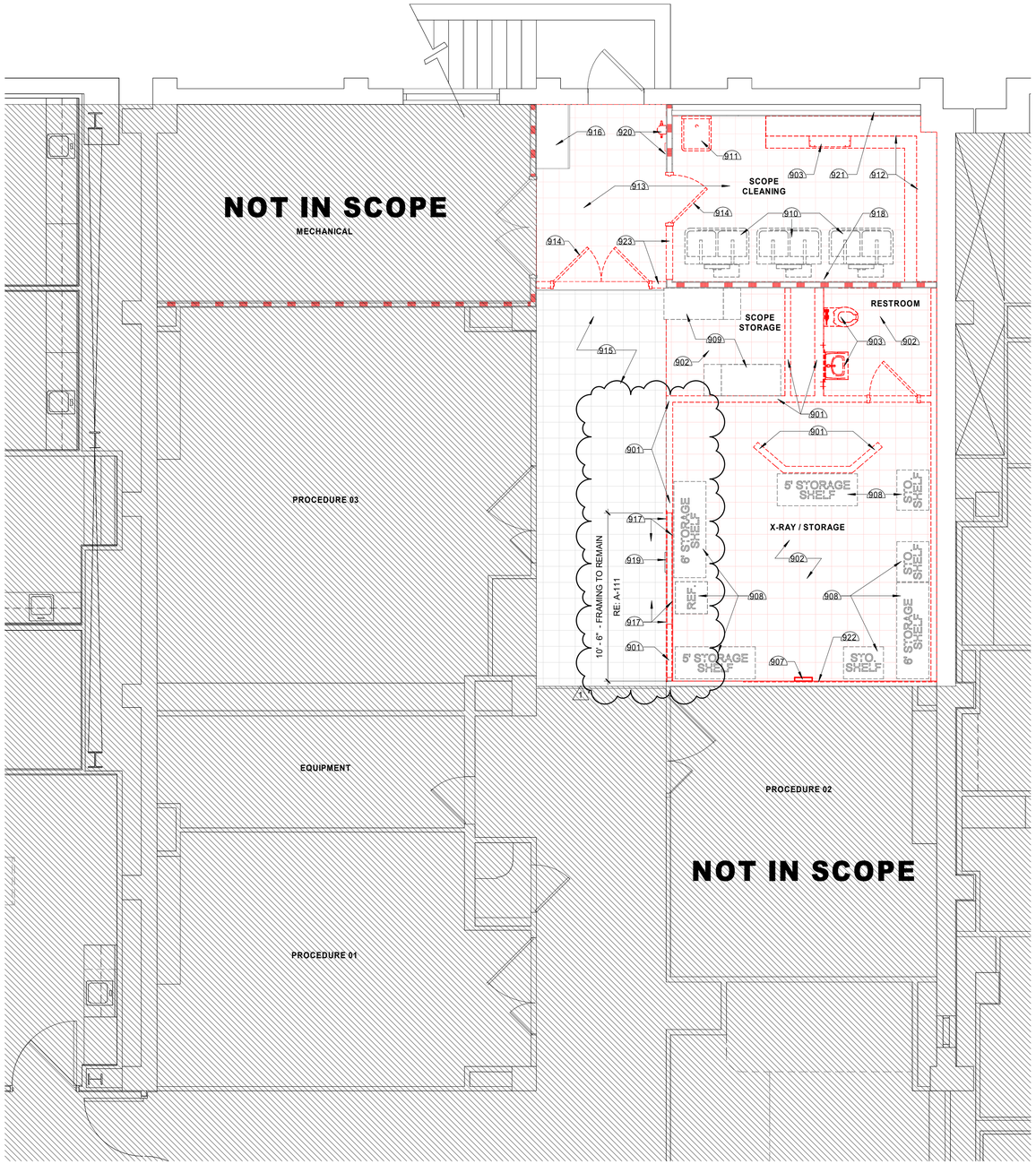
R 24



GENERAL NOTES

A. ISOLATE AREAS OCCUPIED BY OWNER OR PUBLIC WITH DUST BARRIERS DURING DEMOLITION AND CONSTRUCTION. EXTEND BARRIERS FROM FLOOR TO DECK AND WALL TO WALL.
B. PRIOR TO BEGINNING DEMOLITION, SURVEY FACILITY AND NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON DRAWINGS.
C. DEMOLITION WORK INCLUDES, BUT IS NOT LIMITED TO, THOSE ITEMS NOTED. OTHER ITEMS OF MINOR NATURE MAY EXIST WHICH ARE NOT SPECIFICALLY NOTED ON DRAWINGS ARE TO BE REMOVED AS REQUIRED TO PROVIDE ACCESS OR ALLOW ALTERATIONS FOR WORK TO PROCEED.
D. REMOVE FLOOR FINISH AND ADHESIVES IN AFFECTED AREAS AS REQUIRED.
E. WHERE DEMOLITION EXPOSES SUBSTRATES TO RECEIVE FINISH MATERIALS, PROPERLY REMOVE EXISTING MATERIALS AS REQUIRED AND PREP TO RECEIVE NEW FINISHES.
F. PROVIDE MEASURES TO PROTECT MATERIAL INDICATED TO REMAIN DURING CONSTRUCTION.
G. IF SUSPECTED HAZARDOUS MATERIALS ARE ENOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY OWNER AND ARCHITECT.
H. LEAD LINED GYPSUM BOARD (IF ENOUNTERED) TO BE PROPERLY DISPOSED OF AND/OR RECYCLED. MAINTAIN ADEQUATE EXPOSURE CONTROL AND PERSONAL PROTECTION AT ALL TIMES WHEN INTERACTING WITH PRODUCTS CONTAINING HIGH LEAD CONCENTRATIONS.
I. PATCH AND REPAIR ADJACENT SURFACES TO MATCH EXISTING WHERE REQUIRED DUE TO DEMOLITION.
J. MAINTAIN EXISWTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. MAINTAIN FIRE-PROTECTION FACILITIES IN SERVICE DURING SELECTIVE DEMOLITION OPERATIONS.
K. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO OWNER AND ARCHITECT.
L. OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO IMPROVEMENTS REMOVED DURING CONSTRUCTION. COORDINATE WITH OWNER PRIOR TO BEGINNING OF PROJECT FOR ITEMS TO BE SALVAGED.
M. COORDINATE DEMOLITION WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. UNLESS OTHERWISE NOTED, DEMOLITION WASTE BECOMES PROPERTY OF CONTRACTOR.
N. EXISTING CONDITIONS REMAINING ARE TO BE PROTECTED DURING CONSTRUCTION. DAMAGE OCCURRING DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH ORIGINAL CONDITION.
O. VERIFY WITH OWNER FINAL DISPOSITION OF SALVAGED MATERIAL OR EQUIPMENT REMOVED DURING CONSTRUCTION.
P. NOTIFY OWNER AND ARCHITECT OF ANY CONFLICTS WITH MEDGAS LINES IN DEMOLITION SCOPE. ALL LINES TO REMAIN OPERATIONAL THROUGHOUT THE DURATION OF DEMOLITION AND NEW CONSTRUCTION
Q. REVIEW SHEET A-105 FOR DETAILS ON PROGRAMMATIC PHASING REQUIREMENTS
R. REF. MECHANICAL SHEETS FOR SCOPE OF ABOVE CEILING DEMOLITION AND RELOCATION OR REMOVAL OF EXISTING VENTS

DEMOLITION NOTES

AS INDICATED BY: (#)

901 PORTION OF EXISTING WALL TO BE REMOVED TO ALIGN WITH NEW CONSTRUCTION, SEE A-111.
902 FLOORING TO BE REMOVED
903 FIXTURES TO BE REMOVED - REF. PLUMBING
907 EXISTING PANEL TO BE REMOVED - REF. ELECTRICAL
908 EXISTING STORAGE SHELVES AND REFRIGERATOR TO BE RELOCATED; GC TO COORDINATE WITH OWNER ON ACCEPTABLE INTERMEDIARY LOCATION
909 EXISTING SCOPE STORAGE CABINETS TO BE RELOCATED - REF. OVERALL PHASING PLAN - REF. ELECTRICAL
910 EXISTING SCOPE SANITIZERS TO BE RELOCATED - REF. OVERALL PHASING PLAN - REF. PLUMBING
911 EXISTING SERVICE SINK TO BE REMOVED - REF. PLUMBING
912 EXISTING MILLWORK TO BE REMOVED
913 SUSPECTED ASBESTOS TILE TO BE REMOVED - REF. OVERALL PHASING PLAN
914 EXISTING DOOR TO BE REMOVED
915 VERIFY EXTENT OF FLOORING DEMOLITION WITH OWNER IN FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION. PATCH AND REPAIR EXISTING FLOOR TO ALIGN WITH NEW CONSTRUCTION U.N.O.
916 EXISTING CABINET TO REMAIN
917 EXISTING GYP BOARD TO BE REMOVED - EXISTING MEDGAS LINES AND ASSOCIATED FRAMING TO REMAIN, SEE 919.
918 EXISTING SANITIZER PLUMBING TO BE REMOVED - REF. PLUMBING - REF. OVERALL PHASING PLAN
919 EXISTING MED GAS ZONE VALVE BOX AND ASSOCIATED LINES TO REMAIN; COORDINATE DEMOLITION EXTENT WITH OWNER TO ENSURE CONTINUAL OPERATION THROUGHOUT DEMOLITION.
920 EXISTING FIRE EXTINGUISHER & ALARM TO BE RELOCATED - REF. ELECTRICAL - REF. G-101 & A-113
921 EXISTING PLUMBING WALL TO REMAIN, INFILL EXISTING HOLES AND PREP SURFACE FOR NEW FINISH
922 INTERIOR LEAD LINED GYPSUM BOARD TO BE REMOVED TO ALIGN WITH NEW CONSTRUCTION; EXISTING STUD WALL AND CAVITY TO REMAIN. - REF. G-101, A-002 AND A-111 FOR WALL ASSEMBLY DETAILS
923 REMOVE PORTION OF WALL TO ALIGN WITH NEW CONSTRUCTION - REF. A-111

A1 DEMOLITION FLOOR PLAN
1/4" = 1'-0"

0 2' 4' 8'

NORTH

9/2/2025 12:27:53 PM

R_v24

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REGISTERED ARCHITECT
DAVID M. AUSTIN
31548
STATE OF TEXAS

07/29/2024

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BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

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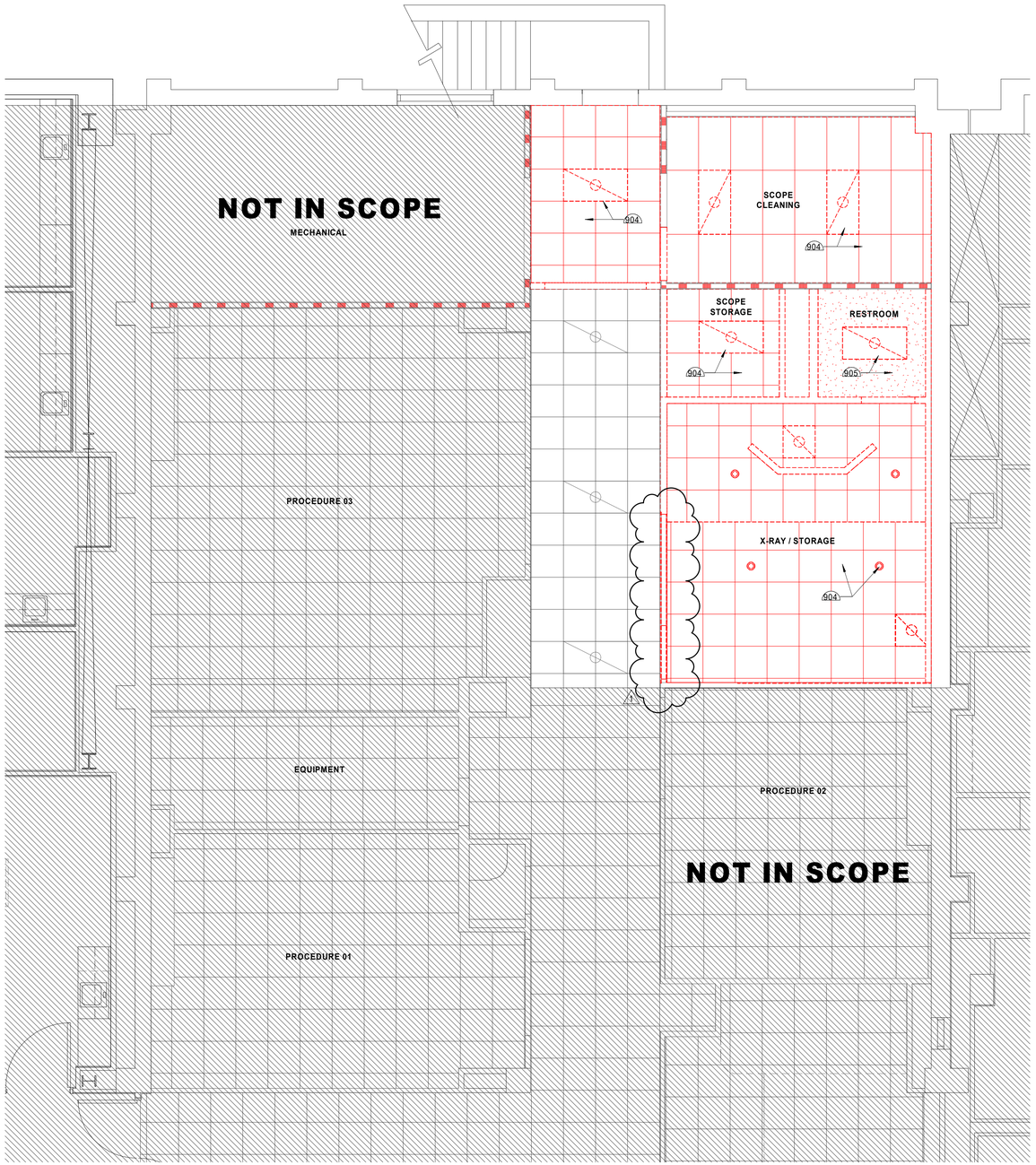
1	09/02/2025	ADD-001
-	07/29/2024	ISSUED FOR CONSTRUCTION

Demolition Plan

A-101



GENERAL NOTES

A. ISOLATE AREAS OCCUPIED BY OWNER OR PUBLIC WITH DUST BARRIERS DURING DEMOLITION AND CONSTRUCTION. EXTEND BARRIERS FROM FLOOR TO DECK AND WALL TO WALL.
B. PRIOR TO BEGINNING DEMOLITION, SURVEY FACILITY AND NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON DRAWINGS.
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F. PROVIDE MEASURES TO PROTECT MATERIAL INDICATED TO REMAIN DURING CONSTRUCTION.
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J. MAINTAIN EXISWTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. MAINTAIN FIRE-PROTECTION FACILITIES IN SERVICE DURING SELECTIVE DEMOLITION OPERATIONS.
K. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO OWNER AND ARCHITECT.
L. OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO IMPROVEMENTS REMOVED DURING CONSTRUCTION. COORDINATE WITH OWNER PRIOR TO BEGINNING OF PROJECT FOR ITEMS TO BE SALVAGED.
M. COORDINATE DEMOLITION WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. UNLESS OTHERWISE NOTED, DEMOLITION WASTE BECOMES PROPERTY OF CONTRACTOR.
N. EXISTING CONDITIONS REMAINING ARE TO BE PROTECTED DURING CONSTRUCTION. DAMAGE OCCURRING DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH ORIGINAL CONDITION.
O. VERIFY WITH OWNER FINAL DISPOSITION OF SALVAGED MATERIAL OR EQUIPMENT REMOVED DURING CONSTRUCTION.
P. NOTIFY OWNER AND ARCHITECT OF ANY CONFLICTS WITH MEDGAS LINES IN DEMOLITION SCOPE. ALL LINES TO REMAIN OPERATIONAL THROUGHOUT THE DURATION OF DEMOLITION AND NEW CONSTRUCTION
Q. REVIEW SHEET A-105 FOR DETAILS ON PROGRAMMATIC PHASING REQUIREMENTS
R. REF. MECHANICAL SHEETS FOR SCOPE OF ABOVE CEILING DEMOLITION AND RELOCATION OR REMOVAL OF EXISTING VENTS

DEMOLITION NOTES

AS INDICATED BY: (B)—►

904 LAY-IN CEILING & LIGHTING TO BE REMOVED - REF. ELECTRICAL
905 CEILING & LIGHTING TO BE REMOVED - REF. ELECTRICAL

LEGEND

GYPSUM WALL BOARD CEILING TO BE REMOVED
LAY-IN CEILING TO BE REMOVED
LAY-IN CEILING TO REMAIN

A1 DEMOLITION REFLECTED FLOOR PLAN
1/4" = 1'-0"

0 2' 4' 8'

NORTH

9/2/2025 12:27:55 PM

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BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

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BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

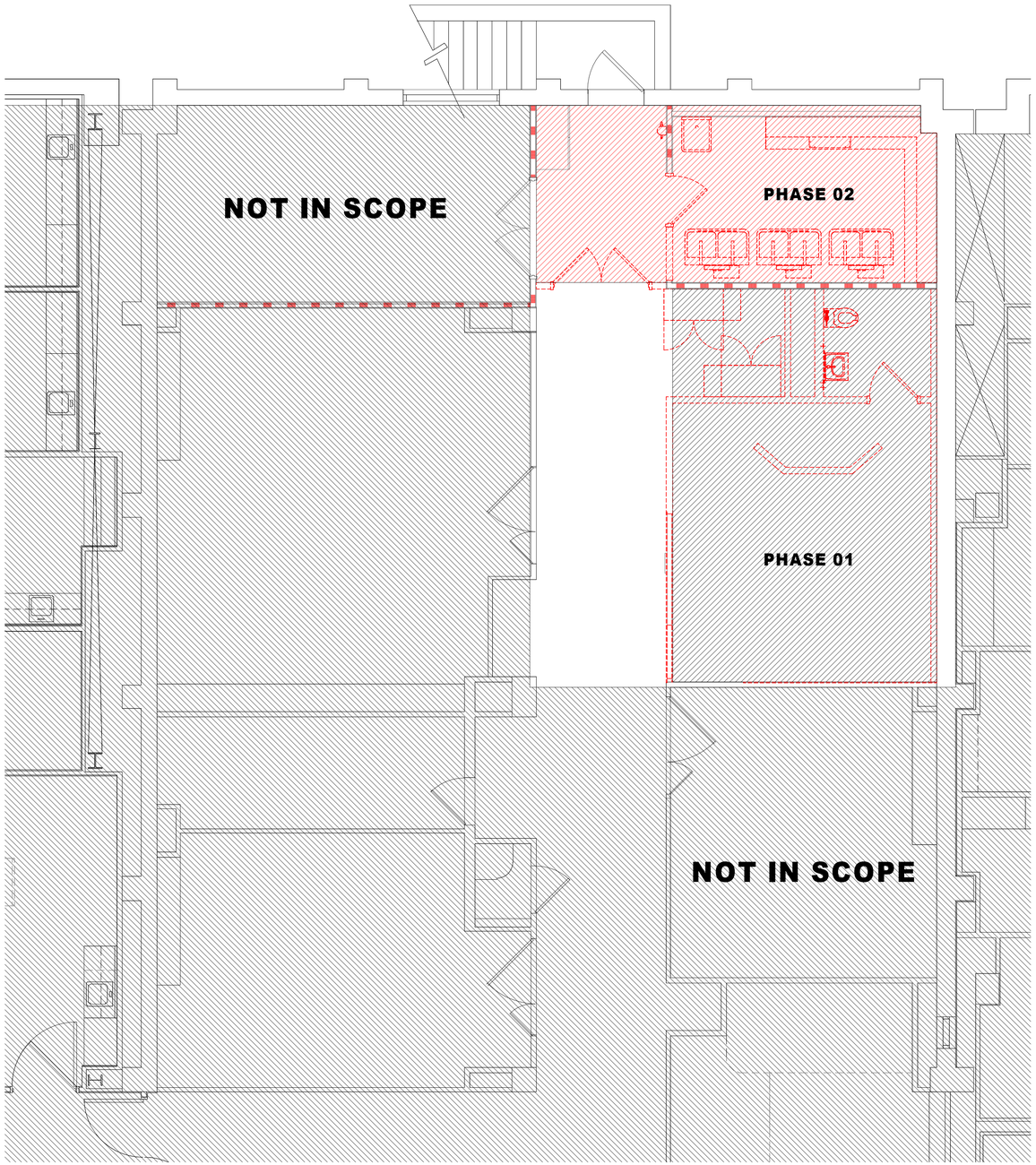
PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	ISSUED FOR CONSTRUCTION

Demolition Reflected Ceiling Plan

A-102



A1 PROPOSED DEMOLITION & CONSTRUCTION PHASING PLAN
1/4" = 1'-0"

0 2' 4' 8'

NORTH

PROGRAMMATIC PHASING REQUIREMENTS

A. DEMOLITION & NEW CONSTRUCTION TO BE PHASED IN A MANNER THAT ALLOWS FOR CONTINUAL OPERATION OF SCOPE CLEANING PROCESSES & ASSOCIATED EQUIPMENT THROUGHOUT THE ENTIRE DURATION OF THE RENOVATION.
B. ALL ACTIVE MEDGAS LINES TO REMAIN OPERATIONAL FOR PROCEDURE USE THROUGHOUT THE DURATION OF THE RENOVATION.
C. OWNER TO COORDINATE WITH CONTRACTOR ON INTERMEDIARY LOCATIONS FOR CLEAN STORAGE DURING THE RENOVATION PROCESS.

PROPOSED PHASING NARRATIVE

THIS PROPOSED PHASING PLAN SERVES SOLELY AS A REFERENCE AND SHOULD NOT BE USED AS A COMPREHENSIVE GUIDE FOR THE DEMOLITION OR RENOVATION PROCESS. SEE GENERAL NOTE A FOR FURTHER DETAILS.

BASED ON PROGRAMMATIC REQUIREMENTS PROVIDED BY OWNER (AS LISTED ABOVE), DEMOLITION WILL NEED TO BE PHASED IN AT LEAST 2 DEDICATED PHASES TO ENSURE CONTINUAL OPERATION OF THE UNIT.

PROPOSED 2 PHASE NARRATIVE

A. PROPOSED PHASE 01: COORDINATE WITH OWNER ON TEMPORARY LOCATION FOR CLEAN SUPPLIES AND SCOPE STORAGE CABINETS THROUGHOUT THE DURATION OF THE RENOVATION - MIN. 1 HR RATED ENCLOSURE OR ROOM REQUIRED. COMMENCE DEMOLITION AND ASSOCIATED CONSTRUCTION WORK FOR ROOMS 109, 110, 111 AND 112 ONCE SUPPLIED AND EQUIPMENT HAVE BEEN RELOCATED.

B. PROPOSED PHASE 02: ONCE COMPLETED, RELOCATE ASSOCIATED FIXTURES, EQUIPMENT AND SUPPLIES INTO ASSOCIATED ROOMS. ENSURE COMPLETE OPERATION OF THE SANITIZATION AND STORAGE PROCESS PRIOR TO PROCEEDING WITH PHASE 02 DEMOLITION. ONCE ALL NEW ROOMS ARE FULLY OPERATIONAL, THE NORTH CORRIDOR AND PREVIOUS PROCESSING ROOM MAY RECEIVE A FULL ABATEMENT, FOLLOWED BY ASSOCIATED DEMOLITION AND CONSTRUCTION FOR ROOM 113.

ALTERNATE 3 PHASE NARRATIVE

A. PROPOSED PHASE 01: COORDINATE WITH OWNER ON TEMPORARY LOCATION FOR CLEAN SUPPLIES AND SCOPE STORAGE CABINETS THROUGHOUT THE DURATION OF THE RENOVATION - MIN. 1 HR RATED ENCLOSURE OR ROOM REQUIRED. BEGIN DEMOLITION AND ASSOCIATED FRAMING WORK FOR ROOM 109. TEMPORARILY LOCATE EXISTING SCOPE STORAGE CABINETS IN SPACE ONCE APPROPRIATELY & SAFETLY FINISHED FOR USE BY STAFF.

B. PROPOSED PHASE 02: ONCE SCOPE CABINETS HAVE BEEN RELOCATED, COMMENCE ASSOCIATED DEMOLITION & CONSTRUCTION FOR ROOMS 110, 111 AND 112. FINISH SPACES COMPLETELY & RELOCATE SCOPE CABINETS TO ROOM 111 FOR FINAL INSTALLATION. ONCE CABINETS HAVE BEEN RELOCATED, PLUMBING AND REMAINING FINISHES / FIXTURES MAY BE PLACED IN ROOM 109.

C. PROPOSED PHASE 03: RELOCATE EXISTING SANITIZERS & ASSOCIATED EQUIPMENT INTO PROCESSING ROOMS 109 AND 110 ONCE SPACES ARE FINISHED. ENSURE COMPLETE OPERATION OF THE SANITIZATION AND STORAGE PROCESS PRIOR TO PROCEEDING WITH DEMOLITION. ONCE ALL NEW ROOMS ARE FULLY OPERATIONAL, THE NORTH CORRIDOR AND PREVIOUS PROCESSING ROOM MAY RECEIVE A FULL ABATEMENT, FOLLOWED BY ASSOCIATED DEMOLITION AND CONSTRUCTION FOR ROOM 113.

1

GENERAL NOTES

A. THESE PROPOSED PHASING PLANS AND NARRATIVES ARE TO BE USED FOR REFERENCE ONLY; EXACT DETAILS OF THE PHASING PROCESS TO BE COORDINATED WITH OWNER & ARCHITECT INTO A FINALIZED PHASING PLAN PRIOR TO COMMENCEMENT OF DEMOLITION AND CONSTRUCTION.

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REGISTERED ARCHITECT DAVID M. AUSTIN 31548 STATE OF TEXAS

07/29/2024

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Interior Updates

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-	07/29/2024	ISSUED FOR CONSTRUCTION

Proposed Phasing Plan

A-105

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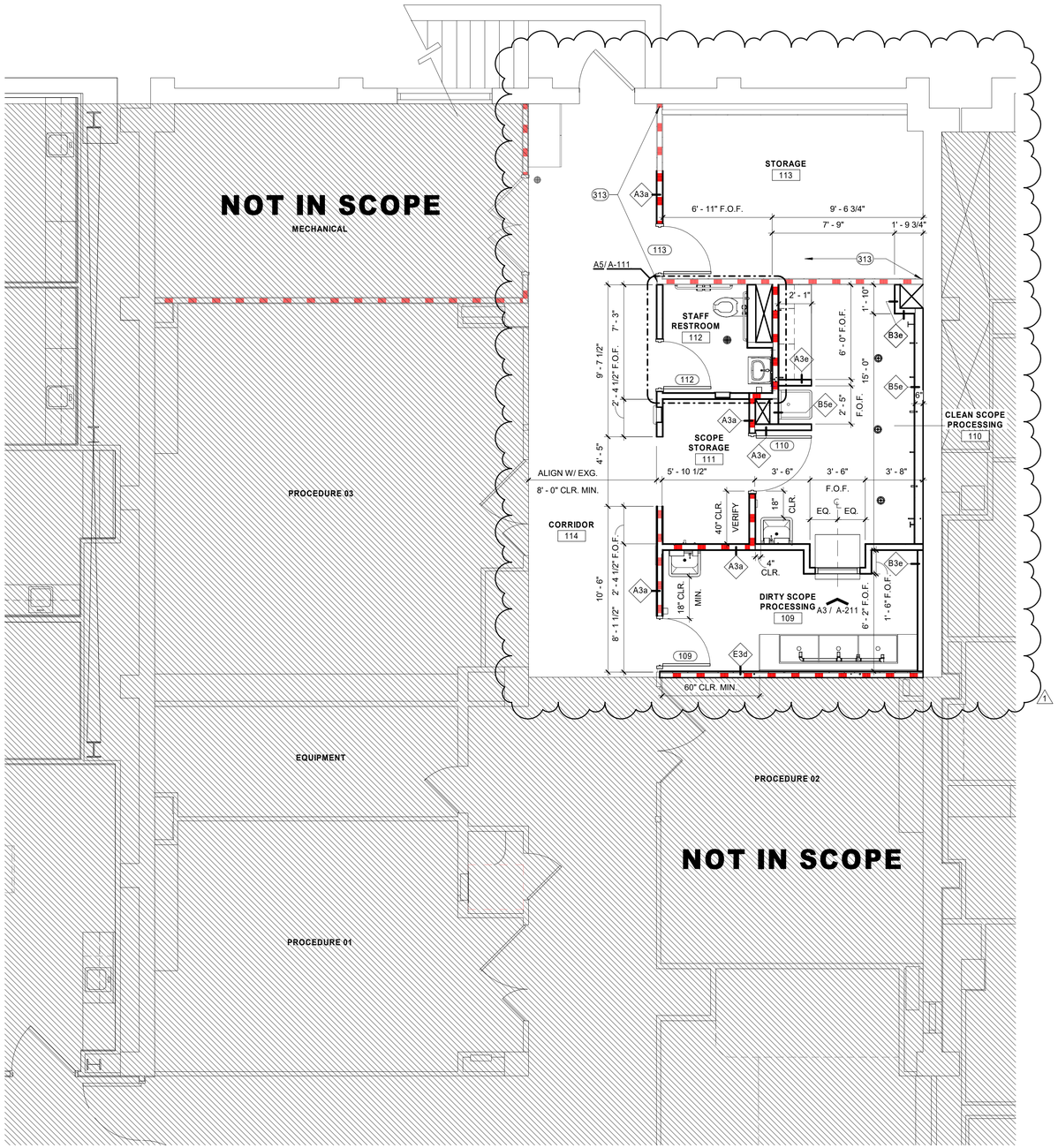


GENERAL NOTES

A. REFER TO ACCESSIBILITY STANDARDS SHEETS FOR TYPICAL MOUNTING LOCATIONS FOR TOILET ROOM ACCESSORIES.
B. ALL INTERIOR WALLS ARE A3a UNLESS NOTED OTHERWISE. REFER TO SHEET A-002 & A-003 FOR INTERIOR PARTITION SCHEDULE.
C. ALL DIMENSIONS ARE TO FACE OF STUD UNO.
D. FIRESTOPPING TO HAVE AN F-RATING OF AT LEAST 1 HOUR, BUT NOT LESS THAN THE FIRE-RESISTANCE RATING OF CONSTRUCTIONS PENETRATED.
E. JOINTS IN OR BETWEEN FIRE-RESISTANCE RATED CONSTRUCTION; PROVIDE JOINT FIRESTOPPING SYSTEMS WITH RATING DETERMINED PER ASTM E 1966 OR UL 2079
F. PROVIDE JOINT SEALANTS, BACKINGS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY JOINT-SEALANT MANUFACTURER, BASED ON TESTING AND FIELD EXPERIENCE.

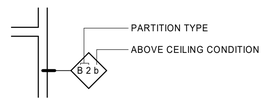
KEY NOTES

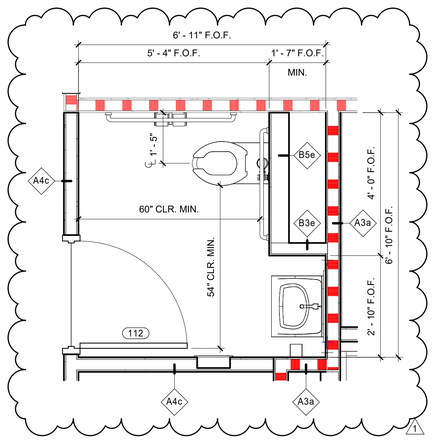
AS INDICATED BY: (#)

313 PATCH & INFILL WALLS AS NECESSARY TO ENSURE EXISTING WALLS MAINTAIN MINIMUM 1HR RATING TO DECK. PENETRATIONS AND HOLES TO MAINTAIN A MINIMUM FIRE RATING OF AT LEAST 1 HOUR, BUT NOT LESS THAN THE FIRE RESISTANCE RATING OF CONSTRUCTIONS PENETRATED THROUGHOUT. ALL WALL PENETRATIONS TO BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. - REF. MECH

PARTITION GENERAL NOTES

THE FOLLOWING PARTITION GRAPHIC SYMBOL AND THREE PART NOTATION SYSTEM IS USED IN THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT. NOTE: THE PARTITION CONSTRUCTION WILL MAINTAIN ITS DESIGNATION TO THE POINT OF AN INTERSECTING PARTITION. IF NO CHANGE IN DESIGNATION IS SHOWN BEYOND THE INTERSECTION, THE PREVIOUS PARTITION CONSTRUCTION DESIGNATION APPLIES. REFER TO CODE PLAN G-101 FOR RATED WALLS.





A1 DIMENSIONED FLOOR PLAN
1/4" = 1'-0"

NORTH

A5 ENLARGED PLAN DETAIL
1/2" = 1'-0"

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KEY PLAN

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1	09/02/2025	ADD-001
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Dimensioned Floor Plan

A-111

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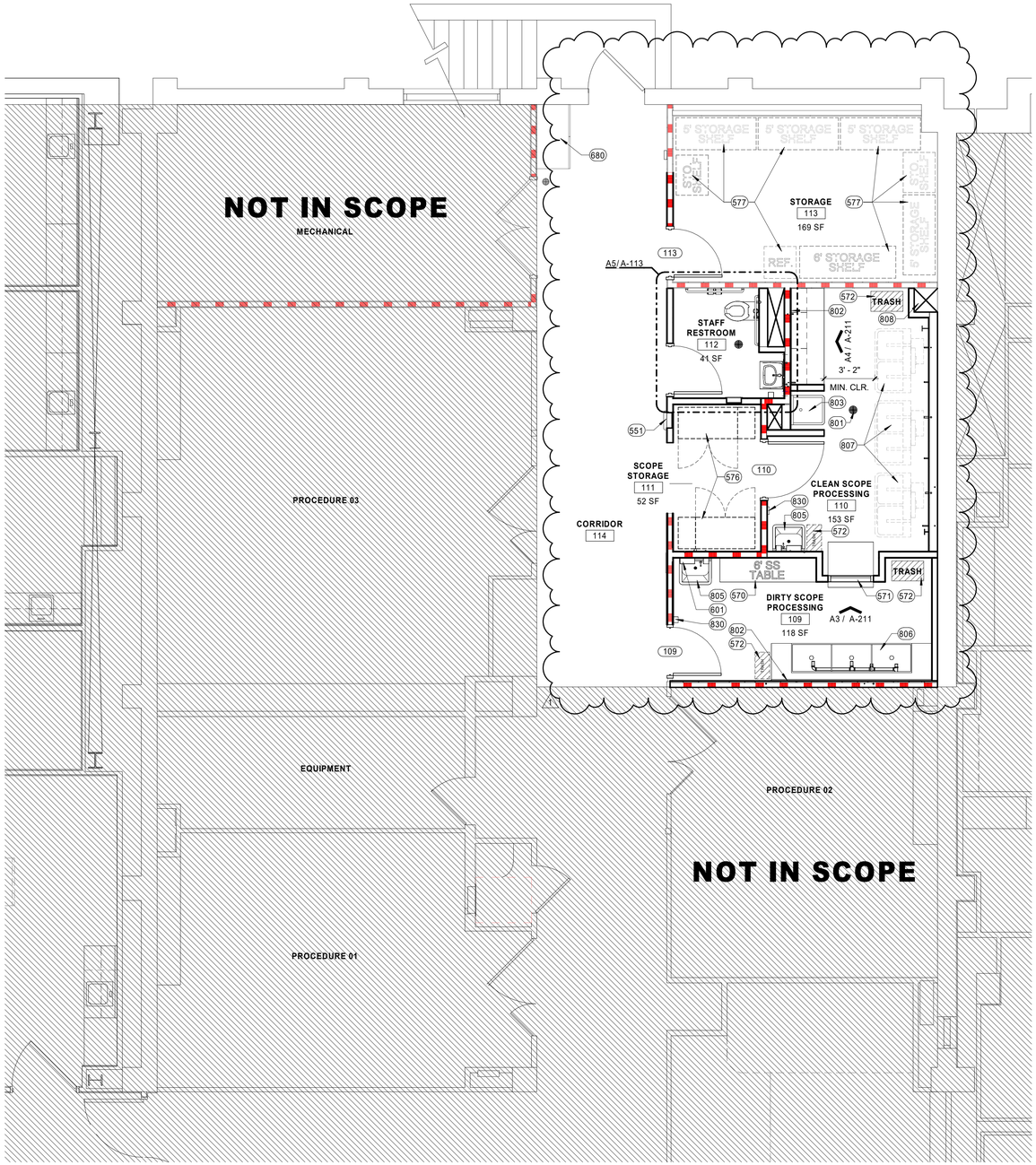
GENERAL NOTES

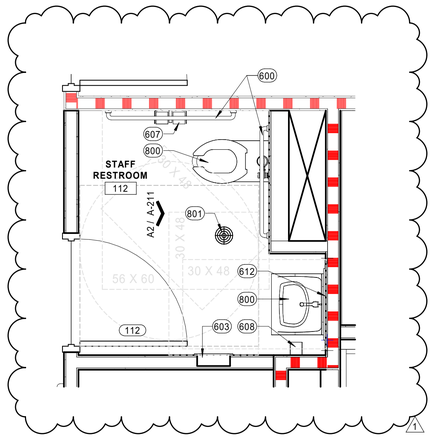
A. REFER TO ACCESSIBILITY STANDARDS SHEETS FOR TYPICAL MOUNTING LOCATIONS FOR TOILET ROOM ACCESSORIES.
B. ALL INTERIOR WALLS ARE A3a UNLESS NOTED OTHERWISE. REFER TO SHEET A-002 & A-003 FOR INTERIOR PARTITION SCHEDULE.
C. ALL DIMENSIONS ARE TO FACE OF STUD UNO.
D. FIRESTOPPING TO HAVE AN F-RATING OF AT LEAST 1 HOUR, BUT NOT LESS THAN THE FIRE-RESISTANCE RATING OF CONSTRUCTIONS PENETRATED.
E. JOINTS IN OR BETWEEN FIRE-RESISTANCE RATED CONSTRUCTION; PROVIDE JOINT FIRESTOPPING SYSTEMS WITH RATING DETERMINED PER ASTM E 1966 OR UL 2079
F. PROVIDE JOINT SEALANTS, BACKINGS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY JOINT-SEALANT MANUFACTURER, BASED ON TESTING AND FIELD EXPERIENCE.



KEY NOTES

AS INDICATED BY: (#)

551	FEC - EQUAL TO LARSEN'S 2409-R4 WITH MP10 MULTI-PURPOSE FIRE EXTINGUISHER.
570	FREESTANDING 18X72 STAINLESS STEEL WORKTABLE W/ SHELF - OFCI
571	AUTOMATED PASSTHROUGH WINDOW - STERIS MODEL PTWAENDO2100 OR EQUAL. 34" WIDTH, 25" SHELF ON RECEIVING SIDE, 4" DEPTH ON SUPPLY. REF: ELECTRICAL.
572	THINLINE TRASHCAN - OFOI
576	RELOCATED SCOPE CABINETS, OFCI - REF. ELECTRICAL - REF. OVERALL PHASING PLAN
577	RELOCATED REFRIGERATOR AND STORAGE SHELVES - REF. OVERALL PHASING PLAN
600	GRAB BAR (GB) - STAINLESS STEEL, 0.05" THICK GRAB BAR WITH NO.4 (SATIN) FINISH. OD 1-1/12" WITH CONFIGURATION AND LENGTH AS INDICATED ON DRAWINGS.
601	OWNER PROVIDED PAPER TOWEL DISPENSER (PTD) AND SOAP DISPENSER (SD) OFCI. VERIFY FINAL PLACEMENT IN FIELD WITH OWNER - MAINTAIN EYEWASH CLEARANCE REQUIREMENTS PER. SINK MFR. GUIDELINES.
603	COMBINATION PAPER TOWEL DISPENSER/WASTE RECEPTACLE (PTDWR) - COORDINATE SELECTION W/ OWNER - BOBRICK B-36903 BASIS OF DESIGN - OFCI
607	TLT TISSUE DISPENSER (TTD-1) OFCI
608	SOAP DISPENSER (SD) OFCI
612	MIRROR (M1)
680	EXISTING MILLWORK
800	REF PLUMBING
801	FD. - REF. PLUMBING
802	COMPRESSED AIR / VACUUM OUTLET - REF: PLUMB.
803	WALL MOUNTED HOPPER SINK - REF: PLUMBING
805	WALL MOUNTED SINK W/ EYEWASH - REF. PLUMBING
806	FREESTANDING 3 COMPARTMENT STAINLESS STEEL SINK - REF. PLUMBING
807	RELOCATED SANITIZERS - REF. PLUMBING - REF. ELECTRICAL - REF. OVERALL PHASING PLAN
808	PLUMBING / MECHANICAL CHASE W/ 10X10 ACCESS PANEL - REF. PLUMBING
830	REF MECH



A1 ANNOTATION FLOOR PLAN
1/4" = 1'-0"

0 2' 4' 8'

NORTH

A5 ENLARGED RESTROOM PLAN DETAIL
1/2" = 1'-0"

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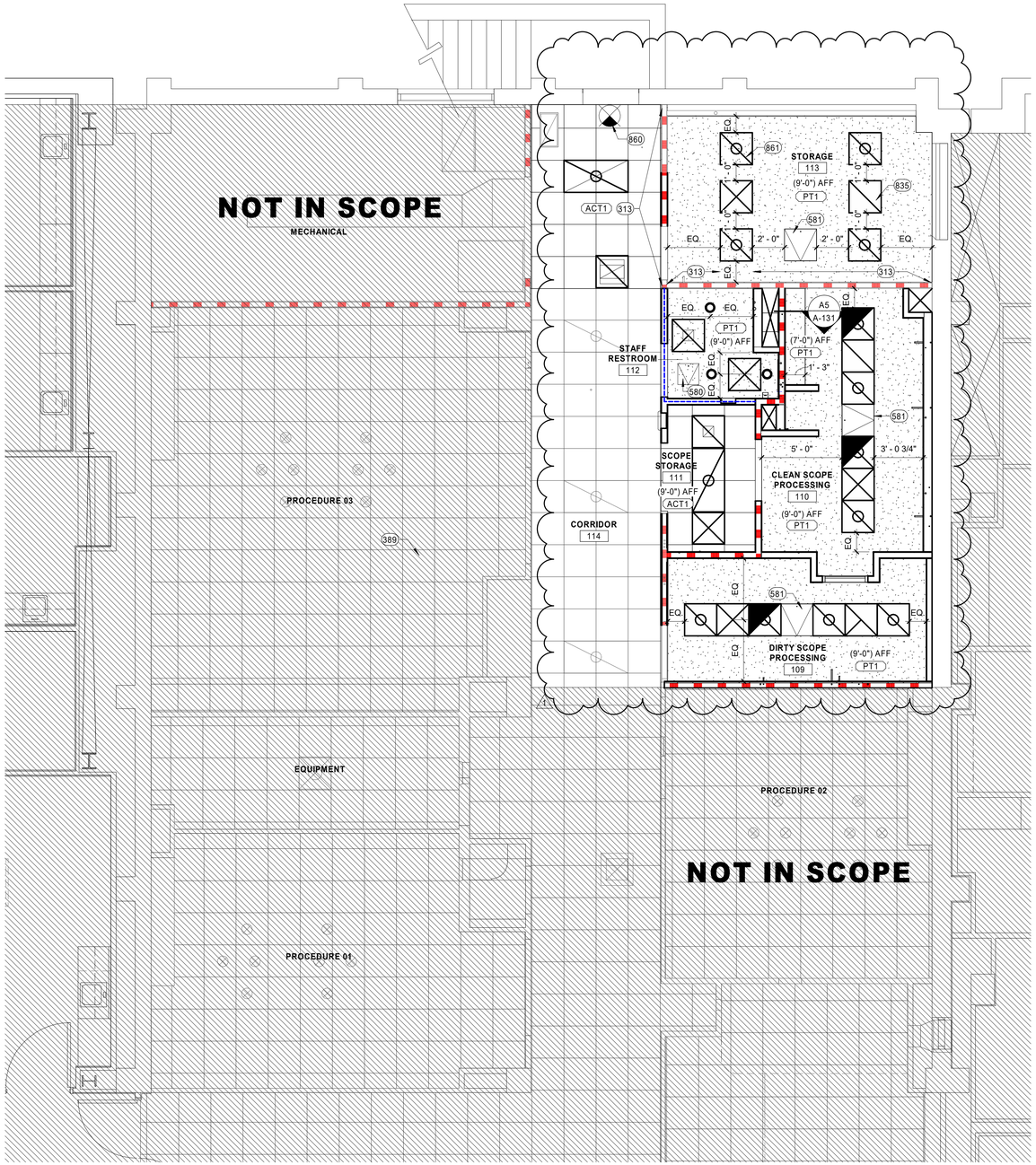
Annotation Floor Plan

A-113



GENERAL NOTES

A. DIMENSIONS ARE TO FACE OF STUD, CMU, OR CENTERLINE OF STRUCTURE UNO.
B. COORDINATE WITH MEP DRAWINGS FOR LOCATIONS OF FIXTURES. LOCATE AS SHOWN ON ARCHITECTURAL PLANS AND DETAILS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO CONSTRUCTION.
C. FINAL SPRINKLER HEAD LOCATIONS SHALL BE SET BY FIRE PROTECTION ENGINEER AND APPROVED BY ARCHITECT.
D. CENTER DEVICES, SPRINKLER HEADS, ETC. IN CEILING TILES UNO.
E. CEILING HEIGHTS SHALL BE 9' - 0" ABOVE FINISHED FLOOR UNO.
F. REFER TO INTERIOR ELEVATIONS AND ROOM FINISH SCHEDULE FOR ADDITIONAL INFORMATION CONCERNING HEIGHTS, CEILING MATERIALS AND FURRED CEILINGS.
G. ACOUSTIC PANEL CEILINGS TO MATCH EXISTING WITH SURFACE-BURNING CHARACTERISTICS COMPLYING WITH ASTM E84 AND FLAME-SPREAD INDES OF CLASS A ACCORDING TO ASTM E1264 AND SMOKE-DEVELOPMENT INDEX OF 50 OR LESS.
H. AT LOCATIONS OF PERFORATED RETURN AIR GRILLES, WIRING, CABLING, ETC. TO BE HELD CLEAR OF OPEN LINE OF SIGHT THROUGH GRILLE. IN CASES WHERE THIS IS UNAVOIDABLE, ITEMS VISIBLE ABOVE GRILLE ARE TO BE PAINTED FLAT BLACK.

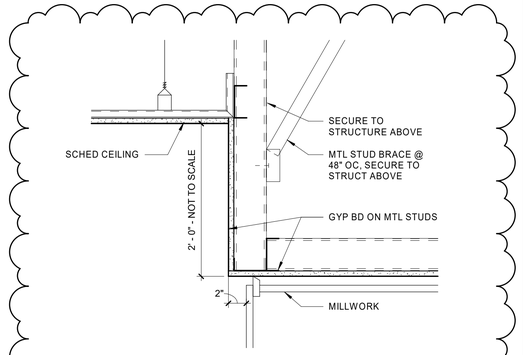
KEY NOTES

AS INDICATED BY: (#)

313 PATCH & INFILL WALLS AS NECESSARY TO ENSURE EXISTING WALLS MAINTAIN MINIMUM 1HR RATING TO DECK. PENETRATIONS AND HOLES TO MAINTAIN A MINIMUM FIRE RATING OF AT LEAST 1 HOUR, BUT NOT LESS THAN THE FIRE RESISTANCE RATING OF CONSTRUCTIONS PENETRATED THROUGHOUT. ALL WALL PENETRATIONS TO BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. - REF. MECH
389 ALIGN GRID HEIGHT AND LAYOUT W/ EXISTING
580 16"X16" ACCESS PANEL - 1" NOMINAL EXPOSED FRAME MADE FROM 16 GAUGE FACTORY PRIMED STEEL AND DOOR PANELS 20 GAUGE STEEL.
581 24"X24" ACCESS PANEL - 1" NOMINAL EXPOSED FRAME MADE FROM 16 GAUGE FACTORY PRIMED STEEL AND DOOR PANELS 20 GAUGE STEEL.
835 MECH GRILLE, REF MECH
860 REF ELECT
861 LIGHT FIXTURE, REF. ELECT

LEGEND

GYPSUM WALL BOARD CEILING
LAY-IN CEILING
------ DENOTES SOUND INSULATION



A5 FURR DOWN
1 1/2" = 1'-0"

A1 FIRST FLOOR - REFLECTED CEILING PLAN
1/4" = 1'-0"

0 2' 4' 8'

NORTH

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R x24

Parkhill

REGISTERED ARCHITECT DAVID M. AUSTIN 31548 STATE OF TEXAS

07/29/2024

Parkhill.com

BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

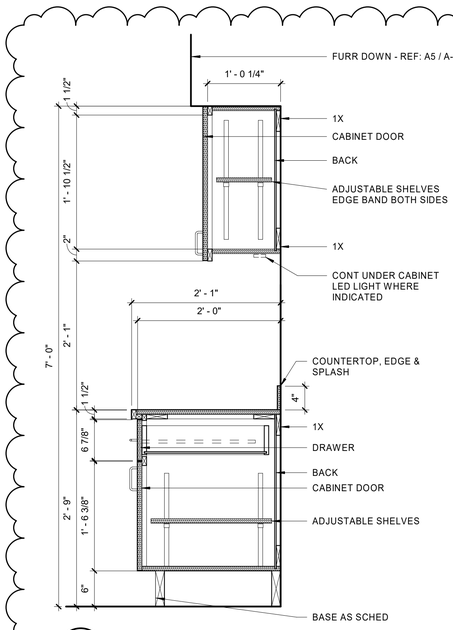
#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	ISSUED FOR CONSTRUCTION

Reflected Ceiling Plan

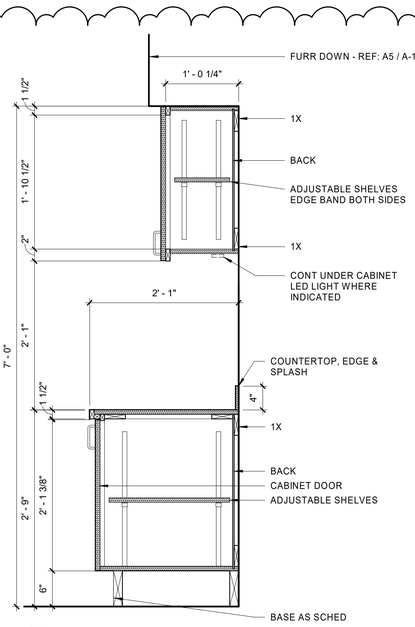
A-131

GENERAL NOTES

A. CONTRACTOR SHALL CONFIRM AND VERIFY ALL DIMENSIONS AND CONDITIONS REPORTING ANY AND ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO BEGINNING ANY PHASE OF THIS WORK.
B. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING FOR ADDITIONAL WORKS AND COORDINATION OF ITEMS REQUIRED.
C. REFERENCE INTERIOR MATERIAL LEGEND FOR MATERIAL SPECIFICS. REFER TO ACCESSIBILITY STANDARDS SHEETS FOR TYPICAL MOUNTING HEIGHTS / LOCATIONS FOR SPECIALTY EQUIPMENT AND ACCESSORIES.
D. COORDINATE IN WALL BLOCKING WITH WALL MOUNTED FFE.
E. COORDINATE FINAL LOCATIONS OF WALL MOUNTED FFE WITH OWNER UNO.



B3 SECTION
1" = 1'-0"

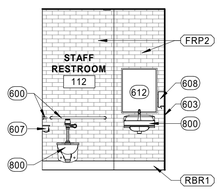


B4 SECTION
1" = 1'-0"

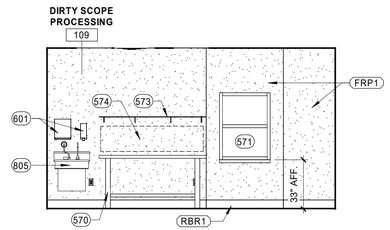
KEY NOTES

AS INDICATED BY: (#)

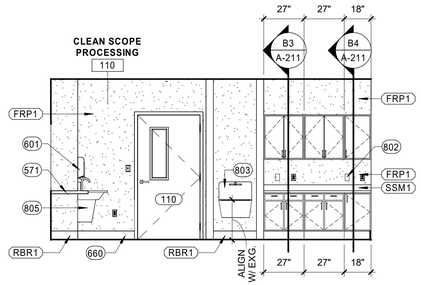
570	FREESTANDING 18X72 STAINLESS STEEL WORKTABLE W/ SHELF - OFCI
571	AUTOMATED PASSTHROUGH WINDOW - STERIS MODEL PTWAEND02100 OR EQUAL. 34" WIDTH, 25" SHELF ON RECEIVING SIDE, 4" DEPTH ON SUPPLY. REF: ELECTRICAL.
573	WALL MOUNTED 12X72 STAINLESS STEEL SHELF - VERIFY FINAL ELEVATION IN FIELD WITH OWNER.
574	COORDINATE WALL MOUNTED EQUIPMENT (OFCI) IN FIELD WITH OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
600	GRAB BAR (GB) - STAINLESS STEEL, 0.05" THICK GRAB BAR WITH NO.4 (SATIN) FINISH. OD 1-1/12" WITH CONFIGURATION AND LENGTH AS INDICATED ON DRAWINGS.
601	OWNER PROVIDED PAPER TOWEL DISPENSER (PTD) AND SOAP DISPENSER (SD) OFCI. VERIFY FINAL PLACEMENT IN FIELD WITH OWNER - MAINTAIN EYEWASH CLEARANCE REQUIREMENTS PER. SINK MFR. GUIDELINES.
603	COMBINATION PAPER TOWEL DISPENSER/WASTE RECEPTACLE (PTDWR) - COORDINATE SELECTION W/ OWNER - BOBRICK B-36903 BASIS OF DESIGN - OFCI
607	TLT TISSUE DISPENSER (TTD-1) OFCI
608	SOAP DISPENSER (SD) OFCI
612	MIRROR (M1)
660	BASE, AS SCHED
800	REF PLUMBING
802	COMPRESSED AIR / VACUUM OUTLET - REF: PLUMB.
803	WALL MOUNTED HOPPER SINK - REF: PLUMBING
805	WALL MOUNTED SINK W/ EYEWASH - REF. PLUMBING



A2 INTERIOR ELEVATION
1/4" = 1'-0"



A3 INTERIOR ELEVATION
1/4" = 1'-0"



A4 INTERIOR ELEVATION
1/4" = 1'-0"

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Parkhill

REGISTERED ARCHITECT
DAVID M. AUSTIN
31548
STATE OF TEXAS

07/29/2024

Parkhill.com

BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	ISSUED FOR CONSTRUCTION

Interior Elevations

A-211

DOOR SCHEDULE

DOOR								FIRE	FRAME		HARDWARE	DETAILS[6]			REMARKS[6]
MARK	PR	WIDTH[1]	WIDTH[1]	HEIGHT[1]	CONST[2]	TYPE[3]	GLAZING	RATING[4]	CONST[5]	SIZE		HEAD	JAMB	SILL	
109		3' - 0"		7' - 0"	HMPF	N1	G03	.75 HR	HM01	4 5/8"	H2	B5/A-601	A5/A-601		CLOSER AND SMOKE SEALS
110		3' - 6"		7' - 0"	HMPF	N1	G03	.75 HR	HM01	5 7/8"	H2	B5/A-601	A5/A-601		CLOSER AND SMOKE SEALS
112		3' - 0"		7' - 0"	HMPF	F	N/A		HM01	5 7/8"	H1	B5/A-601	A5/A-601		
113		3' - 0"		7' - 0"	HMPF	F	N/A	.75 HR	HM01	5 7/8"	H2	B5/A-601	A5/A-601		CLOSER AND SMOKE SEALS

GENERAL NOTES

A. FULLY TEMPERED FLOAT GLASS: ASTM C1048, KIND FT (FULLY TEMPERED), CONDITION A (UNCOATED), TYPE 1, CLASS 1 (CLEAR) QUALITY - Q3

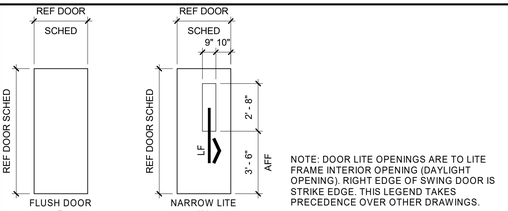
GLAZING SCHEDULE

MARK	TYPE
G03	CLEAR FULLY TEMPERED GLASS; D-H-45 MIN RATING

DOOR SCHEDULE FOOTNOTES X=EXISTING

1. DOOR SIZE
   SIZE INDICATED IS NOMINAL. REDUCTION SHALL BE MADE FOR THRESHOLD & EDGE CLEARANCES. ALL DOORS ARE 1 3/4" THICK UNO.
2. DOOR CONSTRUCTION/VENEER (## - REF TO I-001)
   - SCTF = SOLID CORE WOOD, TRANSPARENT FINISH
   - SCPF = SOLID CORE WOOD, PAINT FINISH
   - SCLP = SOLID CORE WOOD, LAMINATED PLASTIC COVER
   - SCIR = SOLID CORE WOOD, IMPACT RESISTANT
   - HM = HOLLOW METAL
   - HMLP = HOLLOW METAL, LAMINATED PLASTIC COVER
   - HMPF = HOLLOW METAL, PAINT FINISH
3. DOOR TYPE
   REFER TO DOOR TYPE SCHEDULE
4. FRAME CONSTRUCTION
   REFER TO DOOR FRAME SCHEDULES
   - HM = HOLLOW METAL
   - HMPF = HOLLOW METAL, PAINT FINISH
   - ALUM = ALUMINUM
   - WDTF = SOLID WOOD, TRANSPARENT FINISH
   - WDPF = SOLID WOOD, PAINT FINISH
5. FIRE RATING
   COMPARE DOOR & GLAZING SCHEDULE SHEET(S) AND LIFE SAFETY PLAN SHEET(S) FOR FIRE RATING. GC VERIFY AND CONFIRM DOORS, FRAMES, GLAZING AND HARDWARE REQUIRED TO ACHIEVE REQUIRED FIRE RATED ASSEMBLY.
6. DETAIL # —► A1/A-701 ◄— SHEET #
   - " = SIMILAR
7. REMARKS
   MISCELLANEOUS (GENERAL NOTES)
   - M1 = VERIFY ROUGH OPENINGS
   - M2 = DOOR TRIM TO MATCH EXISTING
   - M3 = LEAD LINED DOOR & FRAME
   - M4 = VERIFY FINISH OPENING SIZE
   - M5 = PROVIDE HOSPITAL STOP ON FRAME. SEE STANDARD DOOR DETAILS (THIS SHEET)
   - M6 = CASED OPENING FRAME
   - M7 = SEE STANDARD DOOR DETAILS (THIS SHEET) FOR DOOR HEAD / TRANSOM PANEL DETAILS
8. TRANSOM
   - T1 = WOOD TRANSOM TO MATCH DOOR, SIZE AS NOTED
   - T2 = HOLLOW METAL TRANSOM TO MATCH EXISTING
9. HARDWARE TYPE
   - H1 = 3 HINGE, FULL MORTISE - US26D - 4-1/2" X 4-1/2"
     1 PRIVACY LOCK - US26D - MATCH EXISTING STYLE AND FINISH
     1 KICK PLATE - US32D
     1 WALL STOP - US32D
   - H2 = 3 HINGE, FULL MORTISE - US26D - 4-1/2" X 4-1/2"
     1 ALP PUSH/PULL TRIM PASSAGE - US26D
     1 KICK PLATE - US32D
     1 WALL STOP - US32D
     1 SURFACE CLOSER - EN

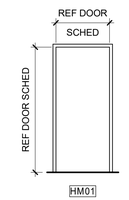
DOOR TYPE SCHEDULE



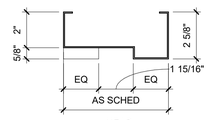
NOTE: DOOR LITE OPENINGS ARE TO LITE FRAME INTERIOR OPENING (DAYLIGHT OPENING). RIGHT EDGE OF SWING DOOR IS STRIKE EDGE. THIS LEGEND TAKES PRECEDENCE OVER OTHER DRAWINGS.

HOLLOW METAL FRAME SCHEDULE

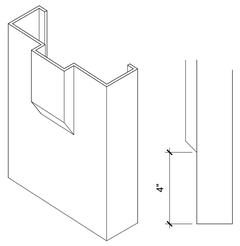
NOTE: FRAME FACES ARE 2" UNO



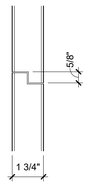
STANDARD DOOR DETAILS



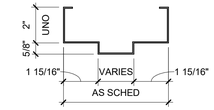
DOUBLE EGRESS FRAME



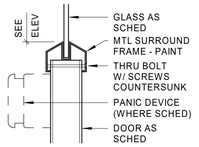
HOSPITAL STOP



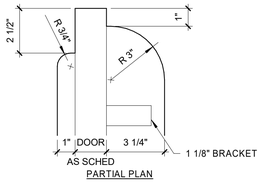
DOOR HEAD TRANSOM PANEL

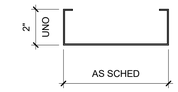


STANDARD FRAME

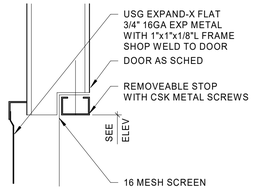


LITE FRAME -LF

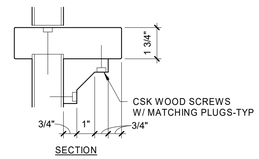




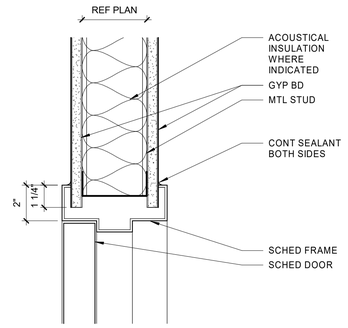
CASED OPENING FRAME



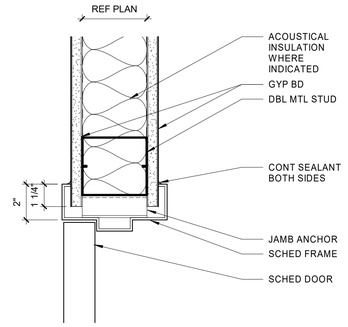
SCREEN DOOR - SD



DUTCH DOOR SHELF - DDS



B5 TYP HEAD
3" = 1'-0"



A5 TYP JAMB
3" = 1'-0"

Parkhill

REGISTERED ARCHITECT DAVID M. AUSTIN 31548 STATE OF TEXAS

07/29/2024

Parkhill.com

BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	ISSUED FOR CONSTRUCTION

Door & Glazing Schedule

A-601

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INTERIOR MATERIAL LEGEND

	MARK	DESCRIPTION	MANUFACTURER	STYLE	COLOR	REMARKS
06 41 16 - PLASTIC LAMINATE CLAD ARCHITECTURAL CABINETS						
	PLAM1	PLASTIC LAMINATE UPPER AND LOWER CABINETS	WILSONART	HD AEON - ANTI-MICROBIAL	SUMNER OAK 17014 - SEE REMARKS LUNAR FROST 1849 - SEE REMARKS	CONTRACTOR TO PROVIDE RANGE OF SAMPLES FOR OWNER AND ARCHITECT TO REVIEW OR APPROVE
06 41 23 - PLASTIC LAMINATE FACED WOOD DOORS						
	PLAM1	PLASTIC LAMINATE DOOR	WILSONART	HD AEON - ANTI-MICROBIAL	TO MATCH SELECTED CABINET	
09 51 13 - ACOUSTIC PANEL CEILINGS						
	ACT1	ACOUSTIC CEILING TILE (FIELD) SIZE	ARMSTRONG CEILINGS 24" X 24"	TO MATCH EXISTING	TO MATCH EXISTING	CONTRACTOR TO PROVIDE SAMPLE FOR REVIEW PRIOR TO INSTALLATION
09 65 13 - RESILIENT BASE AND ACCESSORIES						
	RB1	RESILIENT BASE 4" 4" COVE WITH TOE	ROPPE	TO MATCH EXISTING	TO MATCH EXISTING	CONTRACTOR TO PROVIDE SAMPLE FOR REVIEW PRIOR TO INSTALLATION
09 65 16 - RESILIENT SHEET FLOORING						
	RBR1	SHEET RUBBER HEAT WELD	NORA	ENVIROCARE	7039 BABY SHOWER - SEE REMARKS 7035 SNOW SHOEING - SEE REMARKS 7041 WHALE WATCH - SEE REMARKS	CONTRACTOR TO PROVIDE RANGE OF SAMPLES FOR OWNER AND ARCHITECT TO REVIEW OR APPROVE
09 65 19 - VINYL COMPOSITION TILE FLOORING						
	VCT1	VINYL COMPOSITION TILE FLOORING	ARMSTRONG	TO MATCH EXISTING	TO MATCH EXISTING	CONTRACTOR TO PROVIDE SAMPLE FOR REVIEW PRIOR TO INSTALLATION
09 77 20 - DECORATIVE FIBERGLASS REINFORCED WALL PANELS						
	FRP1	FIBER REINFORCED PLASTIC PANELS	MARLITE	STANDARD FRP- SMOOTH, ANODIZED TRIM	P 100 WHITE, P 199 BRIGHT WHITE	CONTRACTOR TO PROVIDE RANGE OF SAMPLES FOR REVIEW
	FRP2	FIBER REINFORCED PLASTIC PANELS	MARLITE	SYMMETRIX FRP TILE - SUBWAY, ANODIZED TRIM	WHITE	CONTRACTOR TO PROVIDE GROUT SAMPLES FOR REVIEW
09 91 23 - INTERIOR PAINTING						
	PT1	PAINT	SHERWIN WILLIAMS	WATER-RESISTANT EPOXY PAINT	TO MATCH EXISTING	CONTRACTOR TO PROVIDE SAMPLE FOR REVIEW PRIOR TO APPLICATION
	PT2	PAINT	SHERWIN WILLIAMS		TO MATCH EXISTING	
	PT3	PAINT	SHERWIN WILLIAMS		TRICORN BLACK	
10 26 00 - WALL AND DOOR PROTECTION						
	CG1	CORNER GUARD	INPRO	SURFACE MOUNT	STAINLESS STEEL	
12 36 61.16 SOLID SURFACING COUNTERTOPS						
	SSM1	SOLID SURFACE MATERIAL	AVONITE	ACRYLIC	ALPINE SHIMMER 8206 - SEE REMARKS MIST 8512 - SEE REMARKS ARTICA 9015 - SEE REMARKS	CONTRACTOR TO PROVIDE RANGE OF SAMPLES FOR OWNER AND ARCHITECT TO REVIEW OR APPROVE

1

INTERIOR MATERIAL ABBREVIATIONS

A
ACT — ACOUSTICAL TILE CEILING
AWT — ACOUSTICAL WALL TREATMENT

B
BG — BUMPER GUARD

C
CB — COVE BASE
CG — CORNER GUARD
CHR — CHAIR RAIL
CPT — CARPET
CT — CERAMIC TILE
CURT — CUBICAL CURTAIN (PRIVACY, STAGE)

D
DLS — DIMENSIONAL LETTERS
DRS — DOUBLE ROLLER SHADE

F
FLS — FLUID APPLIED SPORTS FLOORING
FP — FOLDING PARTITION
FWP — FABRIC WRAPPED PANELS
FBP — FIBER REINFORCED PLASTIC

G
GLS — ARCHITECTURAL TILE
GLT — GLASS TILE
GF — GLASS FILM
GT — GROUT

H
HIC — HIGH IMPACT WALLCOVERING
HLB — HORIZONTAL LOUVER BLIND
HPC — HIGH-PERFORMANCE COATING
HR — HANDRAIL

K
KPI — KICKPLATE

L
LINO — LINOLEUM
LKR — LOCKER
LVT — LUXURY VINYL TILE

M
MT — METAL THRESHOLD
MTL — METAL TRANSITION
MTLB — METAL BASE

P
PB — PAINTED BASE
PC — POLISHED CONCRETE
PF — PLASTIC FABRICATIONS
PLAM — PLASTIC LAMINATE
PMTL — PAINTED METAL
PT — PAINT

Q
QT — QUARRY TILE
QTZ — QUARTZ SLAB

R
RACC — RESILIENT ACCESSORY
RB — RESILIENT BASE (VINYL, RUBBER, TP)
RBR — RUBBER (TILE AND SHEET)
RES — RESIN PANEL
RFS — RESILIENT SPORTS FLOORING
RSN — PLASTIC RESIN PANEL
RVL — REVEAL

S
SCN — SEALED CONCRETE
SCB — SELF COVE BASE
SGN — SIGNAGE
SRP — SLIP RESISTANT PROTECTIVE FLOORING
SRS — SINGLE ROLLER SHADE
SSM — SOLID SURFACE MATERIAL
SST — STAINLESS STEEL
SWS — SPECIAL WALL SURFACES
SV — SHEET VINYL

T
TC — TOILET COMPARTMENTS
TER — TERRAZZO
TKBD — TACKBOARD
TPF — TRANSPARENT FINISH
TS — TRANSITION STRIP

V
VCT — VINYL COMPOSITION TILE
VWC — VINYL WALL COVERING

W
WD — WOOD DOOR
WDF — WOOD FLOORING
WPC — WOOD PANEL CEILING

GENERAL NOTES

A. VERIFY AND COORDINATE DIMENSIONAL DISCREPANCIES (NEW AND EXISTING) FROM THIS OR ANY PLAN, SECTION OR ELEVATION WITH THE INTERIOR DESIGNER PRIOR TO CONSTRUCTION.
B. MATERIALS TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. PATCH AND REPAIR ALL ADJACENT WALLS, CEILINGS, FLOORS, AND BASE TO MATCH EXISTING WHERE DEMOLITION OR DAMAGE OCCURS. NEW FINISHES SHALL MATCH THE ADJACENT WALL, CEILING, FLOOR, AND BASE, IN TEXTURE, PATTERN, AND COLOR. INTERIOR DESIGNER SHALL APPROVE FINAL WORK.
C. PREPARE SUBSTRATES TO RECEIVE NEW FINISHES PER MFR'S GUIDELINES.
D. THE INTERIOR MATERIAL LEGEND LISTS THE COLORS, PATTERNS AND TEXTURES REQUIRED FOR INTERIOR FINISHES, INCLUDING BOTH FACTORY APPLIED COLORS THAT ARE EXPOSED TO VIEW IN THE FINISHED CONSTRUCTION. SPECIFIC LOCATIONS WHERE THE VARIOUS MATERIALS ARE REQUIRED ARE INDICATED IN DRAWING. WHEN COLOR IS NOT DESIGNATED FOR ITEMS, THE CONTRACTOR SHALL ASK FOR A COLOR SELECTION
E. ALL DISSIMILAR FLOORING SHALL BE TERMINATED IN THE CENTERLINE OF THE DOOR UNO, AND WITH AN ADA COMPLIANT TRANSITION IN HEIGHT REQUIRED TO ACCOMMODATE HEIGHT OF MATERIAL AS SPECIFIED IN THE PROJECT MANUAL.
F. SOLID SURFACE MATERIAL TO BE HOMOGENEOUS - FILLED PLASTIC RESIN COMPLYING WITH ISFA 2-01.
G. PROVIDE PRODUCTS THAT COMPLY WITH MANUFACTURER'S PREMIUM QUALITY STANDARDS AND VOC LIMITS.

GENERAL FINISH NOTES

FLOORS:
A. VCT1 FLOORING TO ALIGN WITH EXISTING TILE PATTERN WHERE APPLICABLE.
B. RBR1 FLOORING TO BE HOMOGENEOUS AND IMPERVIOUS TO WATER THROUGHOUT.

BASE:
A. BASE SHALL BE (RB1) UNO.
B. RBR1 FLOORING TO HAVE INTEGRAL COVE AND TURN UP NOT LESS THAN 6" ON SURROUNDING WALLS. ALL SEAMS TO BE WELDED AND SEALED. INTEGRAL COVE TO RECEIVE STEEL BACKER ROD FOR SUPPORT.

WALLS:
A. DRYWALL WALLS SHALL BE PAINTED (PT2) UNO.
B. RESTROOM WALLS SHALL RECEIVE (FRP2) FROM FLOOR TO CEILING.
C. SCOPE PROCESSING AND STORAGE ROOM WALLS SHALL RECEIVE (FRP1) FROM FLOOR TO CEILING.
D. EXPOSED WALL TILE EDGES SHALL RECEIVE A METAL EDGE CAP.
E. EXPOSED DRYWALL CORNERS TO RECEIVE (CG1) UNO.

CEILINGS:
A. ACOUSTICAL CEILING SHALL BE (ACT1) UNO.
B. DRYWALL CEILINGS SHALL BE PAINTED (PT1) UNO.
C. EXPOSED DECK, STRUCTURAL STEEL, MECHANICAL DUCTWORK AND ELECTRICAL CONDUIT SHALL BE PAINTED (PT3) UNO.

MILLWORK:
A. UPPER AND LOWER MILLWORK SHALL BE (PLAM1) UNO.
B. COUNTERTOPS SHALL BE (SSM1) UNO.

MISCELLANEOUS:
A. DOOR AND WINDOW TRIM SHALL BE PAINTED TO MATCH ADJACENT WALL SURFACE UNO.
B. PAINTED DOORS SHALL BE PAINTED TO MATCH ADJACENT WALL SURFACE UNO.
C. WALL COLOR SHALL EXTEND TO CEILING AND BE APPLIED TO ALL GYPSUM WALL BOARD FINISH.

MILLWORK NOTES

A. ROUGH CARPENTRY - FIRE-RETARDANT-TREATED LUMBER SHALL HAVE A FLAME-SPREAD INDEX OF 25 OR LESS WHEN TESTED ACCORDING TO ASTM E84.
B. PLAM CABINETS - ARCHITECTURAL WOODWORK STANDARD GRADE - CUSTOM; CONSTRUCTION TYPE FRAMELESS; DOORS AND DRAWERS - FLUSH OVERLAY; HIGH PRESSURE LAMINATE; NEMA LD3.
    1. LAMINATE CLADDING FOR EXPOSED SURFACES
        a. HORIZONTAL SURFACES: GRADE HGS
        b. POSTFORMED SURFACES: GRADE HGP
        c. VERTICAL SURFACES: GRADE VGS
        d. EDGES: GRADE GGS PVC EDGE BANDING 3.0 MM THICK ON DOORS AND FRONTS AND 1.0MM ON CABINET COMPONENTS - TO MATCH LAMINATE COLOR
    2. SEMI-EXPOSED SURFACES
        a. SSURFACES OTHER THAN DRAWER BODIES: HIGH-PRESSURE DECORATIVE LAMINATE, NEMA LD 3, GRADE VGS
        b. FOR SEMI-EXPOSED BACKS OF PANES WITH EXPOSED PLASTIC-LAMINATE SURFACES, PROVIDE SURFACE OF HIGH-PRESSURE DECORATIVE LAMINATE, NEMA LD3
        c. DRAWER SIDES AND BACKS: THERMOSET DECORATIVE PANELS WITH PVC OR POLYESTER EDGE BANDING
        d. DRAWING BOTTOMS: HARDWOOD PLYWOOD
C. CABINET HARDWARE - TO MATCH EXISTING STANDARDS IN FINISH, STYLE AND COLOR. CONTRACTOR TO PROVIDE SAMPLE TO OWNER AND ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.

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REGISTERED ARCHITECT DAVID M. AUSTIN 31548 STATE OF TEXAS

07/29/2024

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BSA GI Lab Renovation
Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	ISSUED FOR CONSTRUCTION

Interior Legends & Abbreviations

A-701

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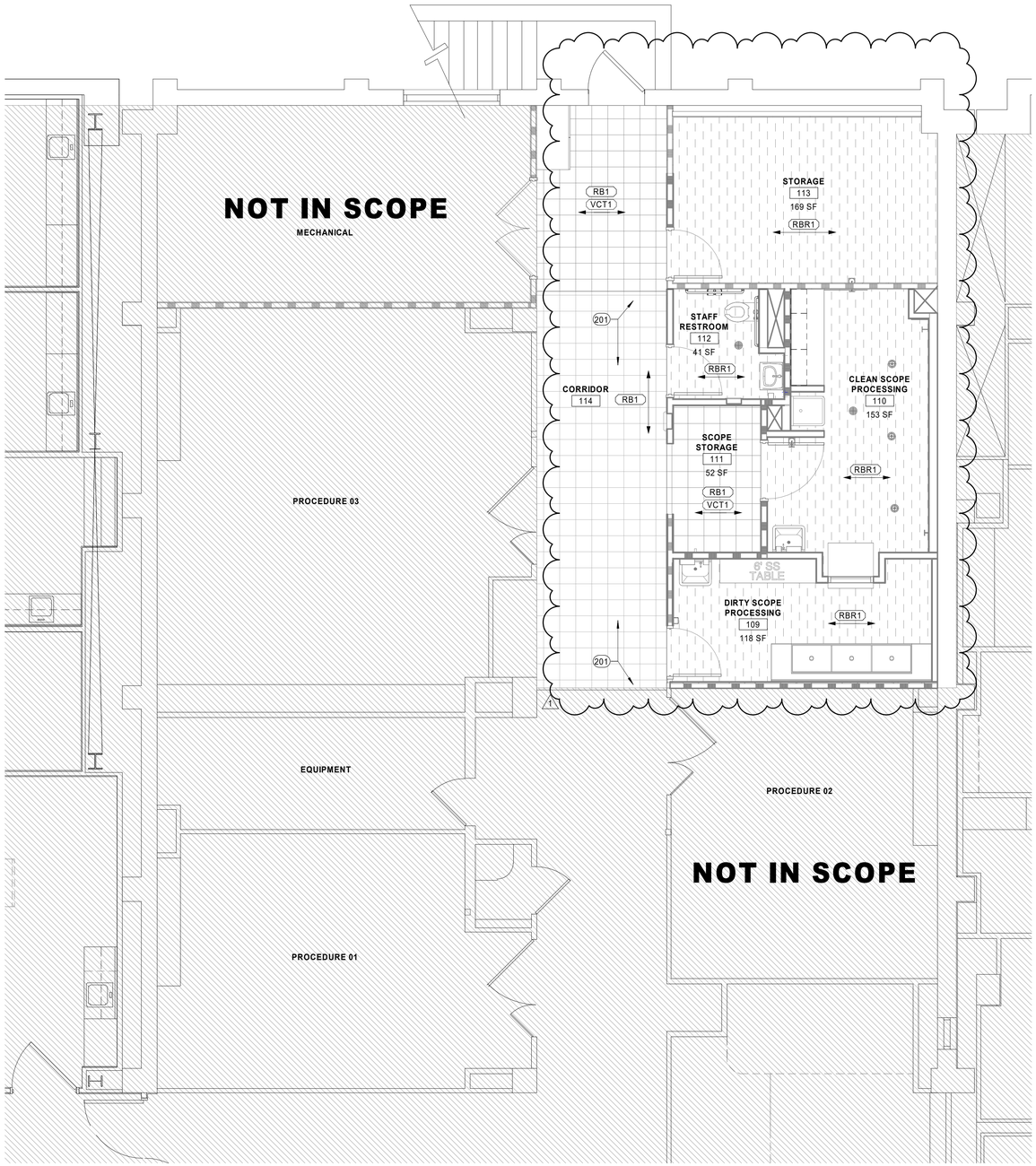

GENERAL NOTES

A. VERIFY AND COORDINATE DIMENSIONAL DISCREPANCIES (NEW AND EXISTING) FROM THIS PLAN WITH THE INTERIOR DESIGNER PRIOR TO CONSTRUCTION.
B. MATERIALS TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. PATCH AND REPAIR ALL ADJACENT WALLS, FLOORS, AND BASE TO MATCH EXISTING WHERE DEMOLITION OR DAMAGE OCCURS. NEW FINISHES SHALL MATCH THE ADJACENT FLOOR, AND BASE, IN TEXTURE, PATTERN, AND COLOR. INTERIOR DESIGNER SHALL APPROVE FINAL WORK.
C. PREPARE SUBSTRATES TO RECEIVE NEW FINISHES PER MFR'S GUIDELINES.
D. REFERENCE INTERIOR MATERIAL LEGEND FOR LIST OF COLORS, PATTERNS AND TEXTURES REQUIRED FOR INTERIOR FINISHES, INCLUDING BOTH FACTORY APPLIED COLORS THAT ARE EXPOSED TO VIEW IN THE FINISHED CONSTRUCTION. WHEN COLOR IS NOT DESIGNATED FOR ITEMS, THE CONTRACTOR SHALL ASK FOR A COLOR SELECTION.
E. ALL DISSIMILAR FLOORING SHALL BE TERMINATED IN THE CENTERLINE OF THE DOOR UNO, AND WITH AN ADA COMPLIANT TRANSITION IN HEIGHT REQUIRED TO ACCOMMODATE HEIGHT OF MATERIAL AS SPECIFIED IN A-701.
F. LENGTH OF FLOORING PRODUCT SHALL BE INSTALLED AS INDICATED BY THE DIRECTION OF ARROWS UNO.
G. SCRIBE AND CUT FLOOR COVERING TO BUTT NEATLY AND TIGHTLY TO VERTICAL SURFACES AND PERMANENT FIXTURES INCLUDING BUILT-IN FURNITURE, CABINETS, PIPES, OUTLETS, EDGINGS, DOORFRAMES, THRESHOLDS AND NOSING. EXTEND FLOORING INTO TOE SPACES, DOOR REVEALS, CLOSETS, AND SIMILAR OPENINGS. MAINTAIN REFERENCE MARKERS, HOLES AND OPENINGS THAT ARE IN PLACE OR MARKED FOR FUTURE USE WITH NONPERMANENT, NONSTAINING MARKING DEVICE.

GENERAL FINISH NOTES

FLOORS:
A. VCT1 FLOORING TO ALIGN WITH EXISTING TILE PATTERN WHERE APPLICABLE.
B. RBR1 FLOORING TO BE HOMOGENEOUS AND IMPERVIOUS TO WATER THROUGHOUT.

BASE:
A. BASE SHALL BE (RB1) UNO.
B. RBR1 FLOORING TO HAVE INTEGRAL COVE AND TURN UP NOT LESS THAN 6" ON SURROUNDING WALLS. ALL SEAMS TO BE WELDED AND SEALED. INTEGRAL COVE TO RECEIVE STEEL BACKER ROD FOR SUPPORT.

WALLS:
A. DRYWALL WALLS SHALL BE PAINTED (PT2) UNO.
B. RESTROOM WALLS SHALL RECEIVE (FRP2) FROM FLOOR TO CEILING.
C. SCOPE PROCESSING AND STORAGE ROOM WALLS SHALL RECEIVE (FRP1) FROM FLOOR TO CEILING.
D. EXPOSED WALL TILE EDGES SHALL RECEIVE A METAL EDGE CAP.
E. EXPOSED DRYWALL CORNERS TO RECEIVE (CG1) UNO.

CEILINGS:
A. ACOUSTICAL CEILING SHALL BE (ACT1) UNO.
B. DRYWALL CEILINGS SHALL BE PAINTED (PT1) UNO.
C. EXPOSED DECK, STRUCTURAL STEEL, MECHANICAL DUCTWORK AND ELECTRICAL CONDUIT SHALL BE PAINTED (PT3) UNO.

MILLWORK:
A. UPPER AND LOWER MILLWORK SHALL BE (PLAM1) UNO.
B. COUNTERTOPS SHALL BE (SSM1) UNO.

MISCELLANEOUS:
A. DOOR AND WINDOW TRIM SHALL BE PAINTED TO MATCH ADJACENT WALL SURFACE UNO.
B. PAINTED DOORS SHALL BE PAINTED TO MATCH ADJACENT WALL SURFACE UNO.
C. WALL COLOR SHALL EXTEND TO CEILING AND BE APPLIED TO ALL GYPSUM WALL BOARD FINISH.

KEY NOTES

AS INDICATED BY: (#)

201 VERIFY EXTENT OF PATCH AND REPAIR WITH OWNER IN FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.

1

A1 FLOOR FINISH PLAN
1/4" = 1'-0"

0 2' 4' 8'

NORTH

9/2/2025 12:28:09 PM

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07/29/2024

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BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

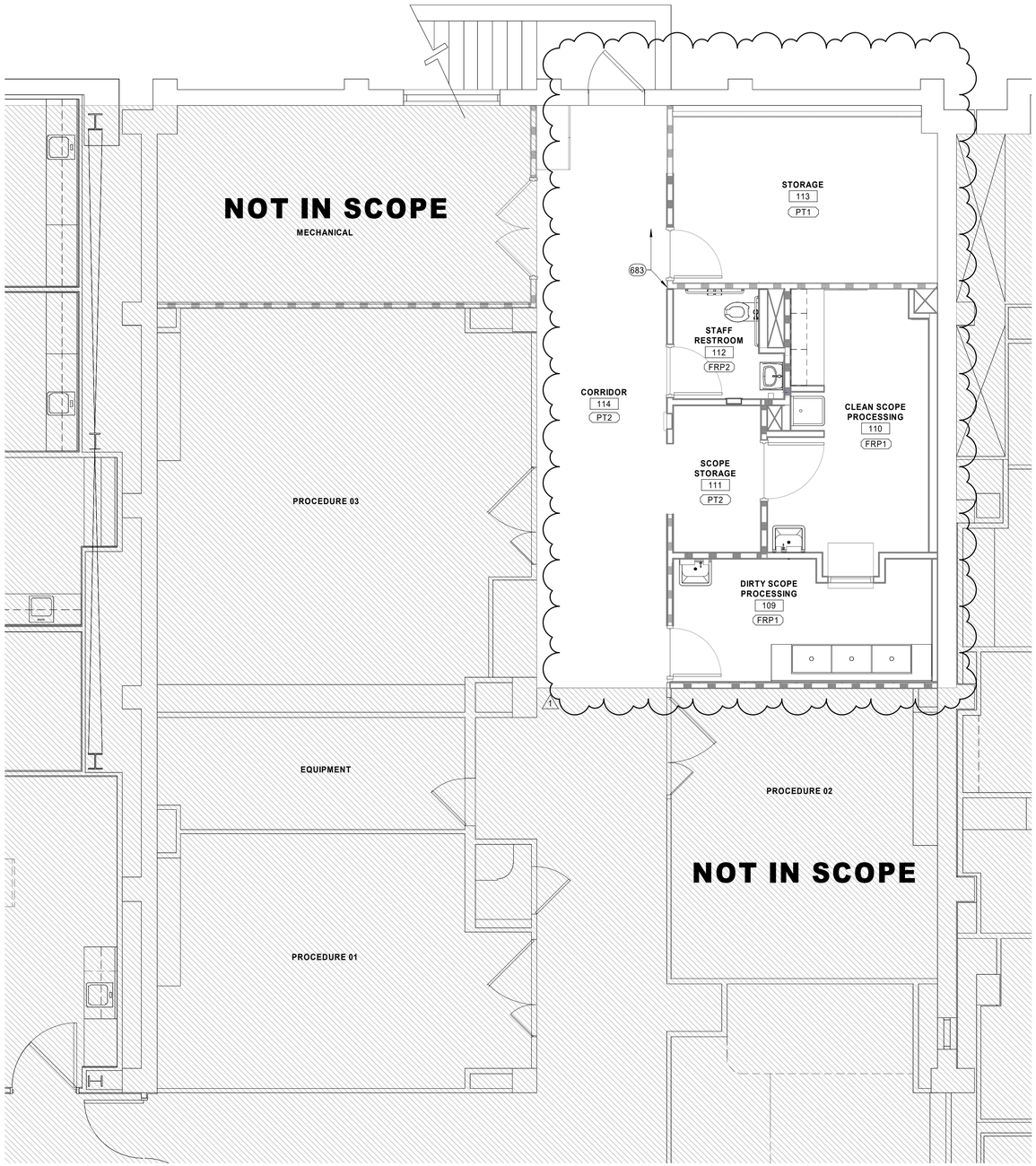
PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	ISSUED FOR CONSTRUCTION

Floor Finish Plan

A-721



GENERAL NOTES

A. VERIFY AND COORDINATE DIMENSIONAL DISCREPANCIES (NEW AND EXISTING) FROM THIS OR ANY PLAN, SECTION OR ELEVATION WITH THE INTERIOR DESIGNER PRIOR TO CONSTRUCTION.
B. MATERIALS TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. PATCH AND REPAIR ALL ADJACENT SURFACES TO MATCH EXISTING WHERE DEMOLITION OR DAMAGE OCCURS. NEW FINISHES SHALL MATCH THE ADJACENT SURFACE(S), IN TEXTURE, PATTERN, AND COLOR. INTERIOR DESIGNER SHALL APPROVE FINAL WORK.
C. PREPARE SUBSTRATES TO RECEIVE NEW FINISHES PER MFR'S GUIDELINES.
D. REFERENCE THE INTERIOR MATERIAL LEGEND FOR THE COLORS, PATTERNS AND TEXTURES REQUIRED FOR INTERIOR FINISHES, INCLUDING BOTH FACTORY APPLIED COLORS THAT ARE EXPOSED TO VIEW IN THE FINISHED CONSTRUCTION. WHEN COLOR IS NOT DESIGNATED FOR ITEMS, THE CONTRACTOR SHALL ASK FOR A COLOR SELECTION.
E. REFERENCE INTERIOR ELEVATIONS FOR CLARIFICATION OF WALL FINISHES.
F. INTERIOR WALL COLOR SHALL APPLY TO THE ENTIRE WALL SURFACE, INCLUDING REVEALS, VERTICAL FURRED SPACES, GRILLES, DIFFUSERS, ELECTRICAL AND ACCESS PANELS, AND ALL PIPING AND CONDUIT ADJACENT TO WALL SURFACES UNLESS OTHERWISE SPECIFIED. ITEMS NOT SPECIFIED IN OTHER PARAGRAPHS SHALL BE PAINTED TO MATCH ADJACENT WALL SURFACE.

GENERAL FINISH NOTES

FLOORS:
A. VCT1 FLOORING TO ALIGN WITH EXISTING TILE PATTERN WHERE APPLICABLE.
B. RBR1 FLOORING TO BE HOMOGENEOUS AND IMPERVIOUS TO WATER THROUGHOUT.

BASE:
A. BASE SHALL BE (RB1) UNO.
B. RBR1 FLOORING TO HAVE INTEGRAL COVE AND TURN UP NOT LESS THAN 6" ON SURROUNDING WALLS. ALL SEAMS TO BE WELDED AND SEALED. INTEGRAL COVE TO RECEIVE STEEL BACKER ROD FOR SUPPORT.

WALLS:
A. DRYWALL WALLS SHALL BE PAINTED (PT2) UNO.
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C. WALL COLOR SHALL EXTEND TO CEILING AND BE APPLIED TO ALL GYPSUM WALL BOARD FINISH.

KEY NOTES

AS INDICATED BY: (#)

683 PAINT WHERE REQUIRED TO MATCH EXISTING

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07/29/2024

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Interior Updates

BSA HEALTH SYSTEM

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BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	ISSUED FOR CONSTRUCTION

A1 WALL FINISH PLAN
1/4" = 1'-0"

0 2' 4' 8'

NORTH

Wall Finish Plan

A-722

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FIRE PROTECTION SPECIFICATIONS

I. GENERAL

A. **NOTE:**
1. CONFORM WITH THE APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS, THE SPECIAL CONDITIONS AND THE GENERAL REQUIREMENTS.

B. **SUBMITTALS:**
1. SUBMIT MANUFACTURER'S DATA AND SHOP DRAWINGS ON ALL MATERIALS.

C. **SCOPE:**
1. THIS SECTION OF THE SPECIFICATIONS PERTAINS TO ALL LABOR, MATERIALS, EQUIPMENT AND SERVICE NECESSARY FOR AND INCIDENTAL TO THE FIRE PROTECTION SYSTEM AS SHOWN ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN.
2. ALL APPURTENANCES AND AUXILIARY EQUIPMENT NECESSARY TO THE FUNCTION OF ANY SPECIFIED ITEM OF EQUIPMENT SHALL BE FURNISHED WITH THE ITEM OF EQUIPMENT, WHETHER SPECIFICALLY MENTIONED OR NOT. EACH ITEM OF EQUIPMENT SHALL PERFORM THE FUNCTION FOR WHICH IT IS INTENDED, AND ALL WORK NECESSARY TO PROVIDE A COMPLETE FUNCTIONAL SYSTEM SHALL BE PROVIDED.
3. THIS SPECIFICATION REQUIRES THAT ALL ITEMS OF EQUIPMENT BE COMPLETELY INSTALLED, FINALLY CONNECTED, TESTED AND PLACED IN SERVICE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL REQUIREMENTS OF THE EQUIPMENT AND THE CONTRACT AND CERTIFY WITH THE SUBMITTAL OF THE SHOP DRAWINGS THAT ALL REQUIREMENTS HAVE BEEN MET, INCLUDING:
   a. SPACE REQUIREMENTS
   b. ELECTRICAL REQUIREMENTS (VOLTAGE, PHASE, WIRES - NO. AND SIZE)
   c. CAPACITIES
   d. CLEARANCE FOR MAINTENANCE
   e. QUALITY
   f. QUANTITY

II. PRODUCTS

A. **ABOVE GROUND PIPING**
1. STEEL PIPE: ASTM A 53, GRADE B; SCHEDULE 40 BLACK.
2. STEEL FITTINGS: ASME B16.9, WROUGHT STEEL, BUTT WELDED.
3. CAST IRON FITTINGS: ASME B 16.4, THREADED FITTINGS.
4. MALLEABLE IRON FITTINGS: ASME B 16.3, THREADED FITTINGS.
5. MECHANICAL GROOVED COUPLINGS: MALLEABLE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS; GALVANIZED FOR GALVANIZED PIPE.

B. **SPRINKLERS**
1. MANUFACTURES: GRINNELLL CORP., RELIABLE SPRINKLER CORP., AND VIKING MODEL.
2. SUSPENDED CEILING TYPE: CONCEALED PENDANT TYPE WITH MATCHING PUSH-ON OR SCREW-ON ESCUTCHEON PLATE. FINISH: BRASS. ESCUTCHEON PLATE FINISH: ENAMEL, COLOR TO BE DETERMINED BY ARCHITECT. FUSIBLE LINK: FUSIBLE SOLDER LINK TYPE OR GLASS BULB TYPE TEMPERATURE RATED FOR SPECIFIC AREA HAZARD.
3. EXPOSED AREA TYPE: STANDARD UPRIGHT TYPE WITH GUARD. FINISH: BRASS. FUSIBLE LINK: FUSIBLE SOLDER LINK TYPE TEMPERATURE RATED FOR SPECIFIC AREA HAZARD.
4. SIDE WALL TYPE: SEMI-RECESSED HORIZONTAL SIDE WALL TYPE WITH MATCHING ESCUTCHEON PLATE AND GUARD. FINISH: CHROME PLATED. ESCUTCHEON PLATE FINISH: CHROME PLATED. FUSIBLE LINK: FUSIBLE SOLDER LINK TYPE OR GLASS BULB TYPE TEMPERATURE RATED FOR SPECIFIC AREA HAZARD.
5. GUARDS: FINISHED TO MATCH SPRINKLER FINISH.

C. **PIPING SPECIALTIES**
1. FLEXIBLE COMMERCIAL SPRINKLER CONNECTION: MANUFACTURERS: FLEXHEAD INDUSTRIES.
2. FLEXIBLE STAINLESS STEEL HOSE ASSEMBLY AND BRACKETING SYSTEM CONNECTS SPRINKLER HEADS TO BRANCH LINES. MOUNTING BRACKET SHALL BE COMPATIBLE WITH ANY SUSPENDED OR GYPSUM BOARD CEILING SYSTEM. HOSE: INDUSTRIAL GRADE, ALL WELDED, NO O-RING CONSTRUCTION, USES ALL 304 STAINLESS STEEL COMPONENTS, RATED UP TO 175 PSI WITHOUT NEED FOR ADDITIONAL HANGERS, APPROVED FOR USE IN SUSPENDED CEILING SYSTEM, TRUE-BORE 1-INCH INTERNAL CORRUGATED HOSE DIAMETER, FULLY BRAIDED HOSE SHALL PROVIDE PROTECTION AGAINST PRESSURE SURGES, AND SHALL BE FM/UL APPROVED.

III. EXECUTION

A. **TESTING:**
1. TEST ALL PIPES BEFORE THEY ARE CONCEALED IN FURRINGS OR CHASES, INSULATED, PAINTED, OR OTHERWISE COVERED UP OR RENDERED INACCESSIBLE. ACCOMPLISH TESTING BY SECTIONS OF LINES OR SYSTEMS, AS REQUIRED BY CONDITIONS DURING CONSTRUCTION. CLEAN ALL PIPING AND EQUIPMENT BEFORE TESTING.
2. THEIR TESTS: PERFORM ALL TESTS REQUIRED TO DEMONSTRATE THAT THE SYSTEM IS OPERATING PROPERLY.

GENERAL FIRE PROTECTION NOTES

A. PIPING AND HANGERS SHALL COMPLY WITH CURRENT NFPA STANDARDS, LOCAL CODES AND REQUIREMENTS.
B. PIPING SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS.
C. SLOPE ALL PIPING TO ALLOW FOR PIPE DRAINAGE AS REQUIRED.
D. COORDINATE ALL ROUTING OF PIPING WITH ARCHITECTURAL REFLECTED CEILING PLAN, CEILING HEIGHTS, HARD/GYP CEILING, AREAS THAT ARE EXPOSED TO THE ROOF DECK, AND ROUTE ALL PIPING AROUND CLERESTORY AREAS. PROVIDE PROPOSED ROUTING FOR APPROVAL BY ARCHITECT AND/OR MECHANICAL ENGINEER PRIOR TO INSTALLATION.
E. CONTRACTOR SHALL ENSURE THAT ALL PIPING IS CONCEALED EXCEPT WHERE PROTECTION OF EXPOSED STRUCTURE IS REQUIRED.
F. COORDINATE PIPE ROUTINGS WITH ALL OTHER TRADES. DUCTWORK, HVAC PIPING, AND PLUMBING PIPING HAVE PRIORITY OVER SPRINKLER PIPING. RE-ROUTE SPRINKLER PIPING AS REQUIRED TO PREVENT CONFLICT.
G. ENSURE SPRINKLER HEADS AND PIPING IN LAN OR ELECTRICAL ROOMS ARE NOT LOCATED DIRECTLY OVER ANY EQUIPMENT.
H. FINAL SYSTEM DESIGNER SHALL OBTAIN ACTUAL TESTED WATER VOLUME AND PRESSURE FOR INCOMING WATER SUPPLY FOR ALL HYDRAULIC CALCULATIONS USED FOR THE SPRINKLER SYSTEM DESIGN, "ESTIMATED" OR "MUNICIPALITY CALCULATED DATA" IS NOT ALLOWED TO BE USED FOR FINAL HYDRAULIC CALCULATIONS. THE ONUS IS ON THE LICENSED FIRE SPRINKLER SYSTEM DESIGNER/CONTRACTOR TO OBTAIN ACCURATE AVAILABLE WATER VOLUME AND PRESSURE AT THE SITE.
I. BEFORE AE WILL REVIEW SUBMITTALS, FIRE PROTECTION DESIGNER MUST PROVIDE DOCUMENTATION THAT THE AHJ HAS APPROVED AND SUBMIT ANY CHANGES TO THE DESIGN THAT THE AHJ WILL ACCEPT.
J. PROVIDE SIGNAGE FOR FIRE PROTECTION SYSTEM AS INDICATED IN SECTION 509 AND 912 OF THE INTERNATIONAL FIRE CODE.

FIRE PROTECTION PIPING NOTES

A. THE AREAS INDICATED (SHOWN HATCHED) SHALL BE FULLY SPRINKLED. THE ENTIRE PROTECTION SYSTEM SHALL MEET ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES, AND MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND INSURANCE SERVICES.
B. REFER TO THE FIRE PROTECTION SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE FIRE PROTECTION SYSTEM.
C. SIZING OF ALL PIPE, SPRINKLER HEADS, AND ACCESSORIES (UNLESS NOTED OTHERWISE), SHALL BE THE RESPONSIBILITY OF THE SPRINKLER SUBCONTRACTOR.
D. MATERIALS AND INSTALLATION SHALL BE PER NFPA STANDARDS (CURRENT EDITION) AND LOCAL CODES. SEE GENERAL PIPING NOTES.
E. ALL INSPECTORS TEST CONNECTIONS AND LOW POINT DRAINS SHALL BE PER NFPA 13 AND SHALL BE DISPLAYED ON SHOP DRAWINGS. COORDINATE WITH ARCHITECT FOR ACCEPTABLE MOUNTING HEIGHTS AND LOCATION. INSTALL INSPECTORS TEST CONNECTION IN A CONCEALED LOCATION. IF CONCEALED LOCATION IS NOT AVAILABLE, COORDINATE LOCATION WITH ARCHITECT.
F. ACCEPTANCE TEST SHALL BE PERFORMED BY THE CONTRACTOR AND WITNESSED AND APPROVED BY THE LOCAL FIRE MARSHAL PRIOR TO ISSUANCE AND OCCUPANCY.
G. PROGRESS INSPECTIONS MUST BE MADE DURING THE INSTALLATION OF THE SYSTEM. REQUEST FOR INSPECTIONS MUST BE INITIATED BY THE CONTRACTOR. INSPECTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO: (1) UNDERGROUND MAIN AND LEAD LINES, (2) SYSTEM RISERS, (3) OVERHEAD PIPING, (4) ACCEPTANCE TESTS, (5) FIRE DEPARTMENT CONNECTION, (6) FINAL INSPECTION
H. APPROVED SPRINKLER PLANS MUST BE AVAILABLE ON THE PROJECT SITE DURING THE INSTALLATION AND INSPECTION OF THE WORK.

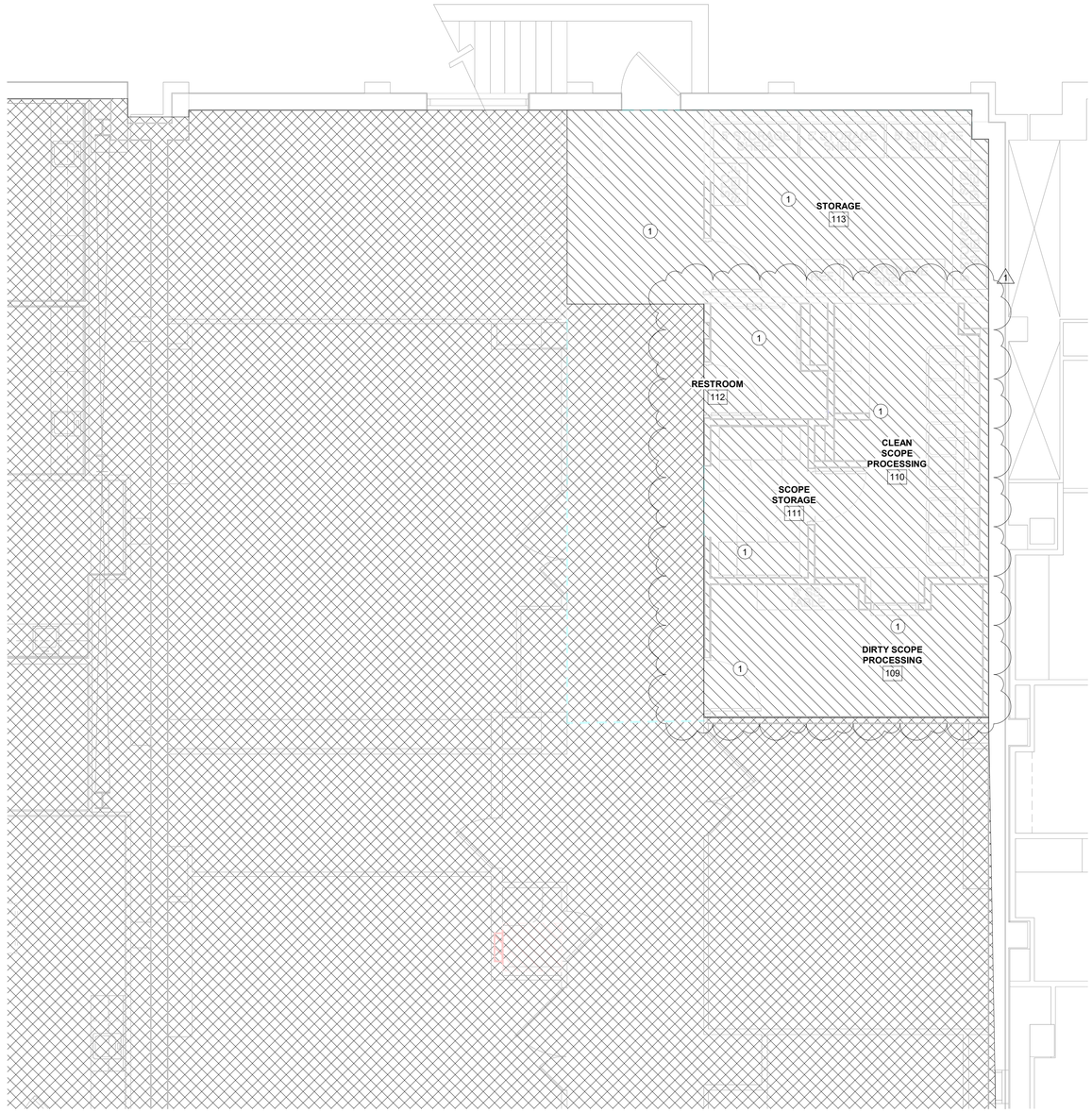
FIRE PROTECTION PIPING NOTES

I. PROVIDE SIGNAGE FOR ALL CONTROL, DRAIN, AND TEST VALVES PER NFPA STANDARDS UPON INSPECTION BY AUTHORITY HAVING JURISDICTION.
J. ALARM AND/OR MONITORING SYSTEMS SHALL BE DONE BY OTHERS.
K. ALL DEVICES SHALL BE UL LISTED FOR FIRE PROTECTION USES.
L. PROVIDE SIDEWALL SPRINKLERS IN ALL CLERESTORY AREAS.
M. PROVIDE UPRIGHT PENDANTS IN ALL AREAS WHERE THERE IS NO CEILING AND ROOF STRUCTURE IS EXPOSED.
N. REFER TO ARCHITECTURAL DRAWINGS FOR ALL INFORMATION ON ARCHITECTURAL FEATURES, AND CONSTRUCTION TYPES.
O. CONTRACTOR MAY UTILIZE COMMERCIAL FLEXIBLE SPRINKLER RUNOUTS IF ALLOWED BY LOCAL AHJ. EXAMPLE: VIKING 'FLEXHEAD' SYSTEM WITH MOUNTING BRACKETS FOR SPECIFIED TYPE OF CEILING WHERE THE SPRINKLER HEAD IS BEING INSTALLED, COORDINATE WITH ARCHITECTURAL RCP.

FIRE PROTECTION LEGEND

NEW CEILING TO BE PROVIDED WITH NEW CONCEALED HEAD FIRE SPRINKLERS ADJUST THE EXISTING PIPING TO NEW LAYOUT FOR LAY-IN AND GYPSUM CEILINGS

EXISTING FIRE SPRINKLER PIPING TO REMAIN



A2 FIRE PROTECTION PLAN
1/4" = 1'-0"

NORTH

GENERAL NOTES

A. RELOCATE PIPING TO SERVE NEW FLOOR PLAN. USE CONCEALED SPRINKLER HEADS IN NEW LAY-IN AND GYPSUM CEILINGS.

KEY NOTES

AS INDICATED BY: (#)

1 RELOCATE PIPING AND CONCEALED FIRE SPRINKLER PIPING AS NECESSARY TO SERVE NEW FLOOR PLAN.

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PARKHILL, SMITH & COOPER, INC. STATE OF TEXAS F-560 ALANNA WATTS 129610 LICENSED PROFESSIONAL ENGINEER

09/02/2025

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BSA GI Lab Renovation
Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	Issued For Construction

Fire Protection Plan - First Floor
F-111

8/27/2025 4:38:22 PM

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PLUMBING SPECIFICATIONS

I. GENERAL

A. **NOTE:**
1. CONFORM WITH APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS, SPECIAL CONDITIONS, GENERAL REQUIREMENTS, AND SUPPLEMENTAL CONDITIONS.

B. **SUBMITTALS:**
1. SUBMIT MANUFACTURER'S DATA ON ALL MATERIALS.

C. **SCOPE:**
1. THIS SECTION OF THE SPECIFICATIONS REQUIRES THE FURNISHING AND INSTALLATION OF ALL EQUIPMENT, LABOR, MATERIALS, TRANSPORTATION, TOOLS AND APPLIANCES AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE PLUMBING SYSTEMS.

D. **UTILITY SERVICES:**
1. WATER SERVICE: CONNECT TO THE EXISTING WATER SERVICE LINE AT THE SITE. REFER TO THE DRAWINGS FOR DETAILS. PROVIDE A VALVE AND VALVE BOX AT THE CONNECTION POINT.
2. SANITARY SEWER: EXTEND AND CONNECT TO THE EXISTING SEWER AT THE SITE AS SHOWN ON THE DRAWINGS.
3. ITS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED COMPONENTS AND PAY ALL REQUIRED FEES AS REQUIRED BY LOCAL UTILITY COMPANY TO PROVIDE OWNER WITH A COMPLETE AND OPERATIONAL SYSTEM.

II. PRODUCTS

A. **MATERIALS:**
1. SANITARY SOIL, WASTE AND DRAIN LINES: CAST IRON SOIL PIPE, ASTM A 74 SERVICE WEIGHT. FITTING SHALL BE CISPI COMPRESSON TYPE.
2. SANITARY VENT LINES: CAST IRON SOIL PIPE, ASTM A 74 SERVICE WEIGHT. FITTING SHALL BE CISPI COMPRESSON TYPE.
3. INTERIOR CLEANOUTS: CLEANOUTS SHALL BE PROVIDED AT THE BOTTOM OF EACH STACK, AT EACH CHANGE IN DIRECTION, AND IN EACH HORIZONTAL RUN AT INTERVALS NOT EXCEEDING 50 FEET IN ALL INTERIOR SOIL, WASTE, AND DRAIN LINES. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS, SUCH AS WADE W-8480-R OR PROVIDED WITH OTHER SPECIAL PLUGS AND COVERS AS REQUIRED TO PRESENT A FINISHED APPEARANCE. FLOOR CLEANOUTS IN UNFINISHED AREAS SHALL BE WADE W-6000 WITH THREADED ADJUSTABLE HOUSING, FLANGED FERRULE WITH CAST IRON PLUG AND GASKET AND SECURED SATIN BRONZE SCORIATED TOP. FLOOR CLEANOUTS IN FINISHED TILE FLOORS SHALL BE WADE W-6000-TS WITH SQUARE TILE TOP; IN CARPETED AREAS WADE W-6000-72 WITH CARPET MARKER. ALL CLEANOUTS SHALL BE THE SAME SIZE AS THE LINE SERVED UP TO 4" SIZE AND SHALL BE 4" FOR ALL LARGER LINES.
4. AIR CHAMBERS: AIR CHAMBERS OF TYPE L COPPER, NOT LESS THAN 12" LONG AND NO SMALLER THAN THE SUPPLY PIPE, SHALL BE PROVIDED AND INSTALLED IN EACH WATER SUPPLY TO EACH AND EVERY FIXTURE, OUTLET, ITEM OF EQUIPMENT, ETC. THE LENGTH AND/OR THE DIAMETER OF THESE AIR CHAMBERS SHALL BE GREATER WHERE REQUIRED TO ELIMINATE WATER HAMMER. PDI SHOCK ABSORBERS MAY BE USED IF SIZED IN ACCORDANCE WITH PDI RECOMMENDATIONS.
5. VACUUM BREAKERS: ON EACH WATER SUPPLY LINE SERVING A PLUMBING FIXTURE, ITEM OF EQUIPMENT, OR OTHER DEVICE WHICH HAS A WATER SUPPLY BELOW THE RIM OF THE FIXTURE, OR WHICH HAS A THREADED OR TUBING SPOUT, PROVIDE AND INSTALL AN APPROVED VACUUM BREAKER. THESE VACUUM BREAKERS SHALL BE DESIGNED TO PREVENT ANY POSSIBLE BACKFLOW THROUGH THEM. WHERE THESE ARE INSTALLED IN CHROME PLATED LINES, THEY SHALL BE CHROME PLATED TO MATCH.

B. **VALVES:**
1. SWING CHECK VALVES: 2" AND SMALLER, ALL BRONZE SCREWED, EQUAL TO CRANE NO. 37 FOR PRESSURES TO 125 PSI OR NO. 36 FOR PRESSURES TO 200 PSI SWP OR 400 PSI WOG. 2-1/2" AND LARGER, IRON BODY, FLANGED, BRONZE TRIMMED; EQUAL TO CRANE NO. 373 FOR PRESSURES TO 125 PSI OR NO. 39E FOR PRESSURES FROM 125 PSI TO 250 PSI.
2. BALL VALVES: BRONZE THREADED BODY, CHROME PLATED FULL PORT BRONZE BALL, TEFLON SEATS AND O-RINGS, BRONZE SHAFTS, AND INFINITE POSITION HANDLE WITH MEMORY STOPS. VALVE SHALL BE TWO PIECE. WHERE VALVES ARE INSTALLED IN INSULATED LINES, PROVIDE EXTENDED STEMS OF ADEQUATE LENGTH FOR THE HANDLE TO CLEAR THE INSULATION AND JACKET. APOLLO, NIBCO, CRANE, JAMESBURY AND STOCKHAM ARE ACCEPTABLE.

C. **HANGERS AND SUPPORTS:**
1. SUPPORT ALL PIPES AS REQUIRED BY THE PLUMBING CODE AND AS REQUIRED TO PREVENT SAGGING. CAST IRON LINES SHALL BE SUPPORTED AT 5' INTERVALS AND OTHER PIPES SHALL BE SUPPORTED ON 8' INTERVALS AS A MINIMUM. HANGERS SHALL BE CLEVIS TYPE WITH ADJUSTERS.

D. **DRAINS:**
1. PROVIDE ALL DRAINS AS SCHEDULED. WADE, JOSAM OR ZURN ARE ACCEPTABLE. PROVIDE A CLAMPING DEVICE FOR THE FLOOR MEMBRANE, WHERE APPLICABLE.
2. PROVIDE ALL FLOOR DRAINS WITH TRAP SEAL EQUAL TO PROSET TRAP GUARD AND INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
3. ALL FLOOR DRAINS, FLOOR SINKS AND TRENCH DRAINS SHALL HAVE AUXILIARY DRAINAGE RIM, AND DEEP SEAL P-TRAP.
   a. FLOOR DRAIN, FD: FLOOR DRAINS SHALL BE COATED CAST IRON, TWO PIECE BODY, NON-PUNCTURING FLASHING COLLAR WITH WEEP HOLES AND 6" ADJUSTABLE SATIN NIKALOY ROUND STRAINER EQUAL TO JOSAM 30000-6A-50.

E. **PLUMBING FIXTURES:**
1. THE PLATE NUMBERS ON THE DRAWINGS REPRESENT FIXTURES THAT WILL BE ACCEPTABLE ON THE JOB. APPROVED EQUAL FIXTURES OF AMERICAN STANDARD, ELJER, AND KOHLER WILL BE ACCEPTABLE.
2. ALL EXPOSED TRIM SHALL BE CHROME PLATED BRASS. THIS INCLUDES FAUCETS, FITTINGS, STOPS, RISERS, STRAINERS, TAILPIECES, TRAPS, WASTE, ESCUTCHEONS, FLUSH VALVES, BRACKETS, VACUUM BREAKERS, GOOSENECKS, HOLE COVERS, BOLTS, NUTS AND ETC.
3. ALL THREADED SUPPLY FITTINGS OR OUTLETS WITH TUBING NOZZLES SHALL HAVE BACK FLOW PREVENTERS.
4. ALL FIXTURES SHALL HAVE QUARTER-TURN STOP VALVES.
5. GENERALLY ALL WALL HUNG FIXTURES SHALL BE PROVIDED WITH CHAIR CARRIERS SO THAT NO WEIGHT IS SUPPORTED FROM THE WALL.
6. ALL FIXTURES SHALL BE CLEANED BEFORE FINAL ACCEPTANCE.
7. VERIFY MOUNTING HEIGHT OF EACH AND EVERY FIXTURE BEFORE ROUGH-IN.
8. WHERE FIXTURES MATE WITH WALLS OR FLOOR, THE JOINT SHALL BE GROUTED WITH DENTAL PLASTER, G. E. SILICONE OR OTHER GROUT AS DIRECTED BY THE ARCHITECT.
9. THE CONTRACTOR SHALL VERIFY ALL ROUGH IN HEIGHTS BEFORE INSTALLATION AND SHALL SECURE A CURRENT RULING ON HEIGHTS OF HANDICAPPED FIXTURES BEFORE ROUGH IN TO INSURE THAT THEY MEET THE REQUIREMENTS OF THE PARTIES HAVING JURISDICTION.
10. CONTROLS FOR WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS.
11. ALL FIXTURES SHALL MEET STATE OF TEXAS SB587 WATER SAVING PERFORMANCE STANDARDS.

III. EXECUTION

A. **INSTALLATION OF PIPING SYSTEMS:**
1. DRAIN LINES AND SANITARY WASTE: GRADE DOWN TOWARD THE SEWER CONNECTION AT A UNIFORM SLOPE OF 1/4" PER FOOT TO SERVE INDIVIDUAL FIXTURES OR NOT LESS THAN 1/8" PER FOOT TO SERVE MULTIPLE STACKS OR OUTLETS. SLOPE SHALL BE GREATER WHERE POSSIBLE AND SHALL NEVER BE LESS THAN REQUIRED TO PRODUCE A FLOW VELOCITY OF 2 FEET PER SECOND.
2. VENTS: GRADE UP TO THE VENT THROUGH THE ROOF. TERMINATE NOT LESS THAN 12" ABOVE THE ROOF.
3. WATER LINES: GRADE TO ESTABLISHED LOW POINTS AND PROVIDE VALVED DRAINS TO COMPLETELY DRAIN THE SYSTEM.
4. ISOLATION VALVES: THE WATER SUPPLIES TO EACH GROUP OF FIXTURES SHALL HAVE AN ISOLATING VALVE IN EACH LINE SERVING THE RISER. WHERE THESE VALVES ARE NOT ACCESSIBLE THRU REMOVABLE CEILINGS OR OTHERWISE, PROVIDE ACCESS DOORS IN THE CEILING OR CHASE.

PLUMBING SPECIFICATIONS

B. **FABRICATION OF PIPE JOINTS:**
1. THREADED PIPES: REAM AND DEBURR PIPE AFTER IT IS CUT AND BEFORE IT IS THREADED. STAND EACH PIPE ON ONE END AND HAMMER TO REMOVE ALL FOREIGN MATERIAL. FULL CUT THREADS, BUT NOT MORE THAN 3 PIPE THREADS SHALL REMAIN EXPOSED WHEN JOINT IS COMPLETED. MAKE UP JOINTS WITH GRAPHITE AND OIL OR AN APPROVED GRAPHITE COMPOUND APPLIED TO MALE THREADS ONLY. CAULKING OF THREADED JOINTS TO STOP OR PREVENT LEAKS IS PROHIBITED.
2. COPPER TUBING: CUT TUBING SQUARE, REAM AND DEBURR. CLEAN INSIDES OF FITTINGS AND OUTSIDES OF TUBING WITH SAND CLOTH BEFORE ASSEMBLY. EXERCISE CARE TO PREVENT ANNEALING OF FITTINGS AND HARD DRAWN TUBING. MAKE ALL JOINTS WITH HIGH TEMPERATURE SOLID STRING OR WIRE SOLDER, 95% TIN, 5% ANTIMONY, USING NON-CORROSIVE PASTE FLUX OF THE PROPER TYPE FOR ALL COPPER TUBING. LOW TEMPERATURE SOLDER SUCH AS 50/50 OR 40/60 WILL NOT BE PERMITTED.
3. WELDED JOINTS: MAKE ALL WELDED JOINTS BY THE METALLIC ARC PROCESS. USE BASE MATERIAL CONFORMING TO ANSI B31.1 FOR WELDED PIPE ASTM A106 AND ASTM A53. USE FILLER MATERIAL CONFORMING TO ASTM A233 AND IN ACCORDANCE WITH ANSI B31.1. MACHINE THE ENDS OF THE MATERIAL TO BE JOINED OR GAS CUT. MAKE THE CUT SMOOTH IN ORDER THAT GOOD FIT CAN BE MADE AND A FULL PENETRATION WELD MADE. USE DIRECT CURRENT FOR WELDING WITH THE ELECTRODE POSITIVE. LIMIT THE DEPTH OF DEPOSIT TO 1/8" PER PASS. REMOVE ALL SLAG OR FLUX REMAINING ON ANY BEAD OF WELDING BEFORE LAYING DOWN THE NEXT SUCCESSIVE BEAD OF WELDING. REMOVE ANY CRACKS OR BLOW HOLES THAT APPEAR ON THE SURFACE OF ANY BEAD OF WELDING BY CHIPPING OR GRINDING BEFORE DEPOSITING THE NEXT SUCCESSIVE BEAD OF WELDING.
4. SOLVENT WELDED ACCORDING TO MANUFACTURERS INSTRUCTIONS.

C. **REPAIR OF LEAKS:**
1. ALL LEAKS IN PIPING SYSTEMS SHALL BE CORRECTED AS FOLLOWS:
   a. REPAIR LEAKS IN SOLDER JOINTS BY REMAKING THE JOINT; NO SOLDERING OR BRAZING OVER EXISTING JOINTS WILL BE PERMITTED.
   b. REPAIR LEAKS IN SCREWED JOINTS BY TIGHTENING THE JOINT; REMAKE THE JOINT IF THE TIGHTENING FAILS TO STOP THE LEAK.
   c. REPAIR LEAKS IN PVC PIPE BY REMAKING THE JOINT.
   d. REPAIR LEAKS IN WELDED JOINTS BY REMOVING THE DEFECTIVE WELD COMPLETELY THROUGH THE BASE METAL AND GRIND SMOOTH. RE-WELD, ACCOMPLISHING 100% PENETRATION OF THE BASE METAL. THE REPAIR WELD SHOULD IN NO CASE BE LESS THAN 4" IN LENGTH.
2. WHEN ANY DEFECT IS REPAIRED, RETEST THAT SECTION OF THE SYSTEM.

D. **INSULATION:**
1. ANY INSULATION WHICH IS NOT APPLIED IN A WORKMANLIKE MANNER WILL BE REJECTED AND REPLACED. ALL COVERINGS SHALL BE SMOOTH, FLUSH, DRESSED TO LINE AND TIGHT. MASTIC SHALL BE NEATLY APPLIED AND TOOLED. ARCHITECT RESERVES THE RIGHT TO REJECT ANY INSULATION WHOSE APPEARANCE IS DEEMED UNACCEPTABLE.
2. APPLY INSULATION AND PIPE COVERING AFTER ALL WORK HAS BEEN TESTED, FOUND TO BE TIGHT AND ACCEPTED AS SUCH BY THE ARCHITECT. THOROUGHLY CLEAN AND DRY ALL SURFACE TO BE COVERED.
3. FACTORY-APPLIED VAPOR-BARRIER JACKETS SHALL BE ONE OF THE FOLLOWING:
   a. AN ALL SERVICE JACKET (ASJ) LAMINATED OF FLAME RESISTANT WHITE KRAFT PAPER, GLASS SCRIM REINFORCEMENT, AND KRAFT PAPER.
   b. FOIL REINFORCED KRAFT (FRK) JACKET LAMINATED OF FLAME RESISTANT 0.001" ALUMINUM FOIL, GLASS SCRIM REINFORCEMENT AND KRAFT PAPER.
4. INSULATE VALVES AND FITTINGS WITH TWO FIBERGLASS INSERTS AND PREFORMED MANVILLE "ZESTON" COVERS WITH TAPED SEAMS.
5. THE FOLLOWING DESCRIBES MATERIALS, THICKNESSES AND FINISHES FOR INSULATION AND COVERINGS.
6. DOMESTIC COLD WATER, HOT WATER AND CIRCULATING LINES: INSULATE WITH 1" THICK OWENS-CORNING FIBERGLAS ASJ/SSL-II MOLDED SECTIONAL GLASS FIBER PIPE COVERING WITH AN ALL SERVICE JACKET (ASJ). INSULATE CONCEALED VALVES AND FITTINGS WITH PREFORMED "ZESTON" PVC COVERS OVER FIBERGLASS INSULATION. INSULATE EXPOSED VALVES AND FITTINGS WITH HAMFAB INSULATION FITTINGS.
7. DRAIN LINES: 3/8" THICK MANVILLE TYPE II "AEROTUBE". INSULATION MAY BE SLIT FLANGE TYPE OR THREADED ON DURING FABRICATION.

E. **LOCATION AND DETECTION:**
1. NON-METALLIC: NON-METALLIC PIPE INSTALLED BELOW GROUND SHALL HAVE INSTALLED IN THE SAME TRENCH A DETECTABLE PLASTIC TAPE THAT CONFORMS IN TO THE APWA COLOR CODING.
2. SUCH TAPE SHALL CONSIST OF ONE LAYER OF ALUMINUM FOIL LAMINATED BETWEEN TWO LAYERS OF INERT PLASTIC FILM. TAPE SHALL BE APPROVED 2 1/8" WIDE AND SHALL BE IMPRINTED WITH A CONTINUOUS TRACEABLE FOR A MINIMUM OF EIGHT YEARS AFTER DIRECT BURIAL. PRODUCT SHALL BE TERRA TAPE DETECTABLE OR APPROVED EQUAL. TAPE SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS, BUT NO LESS THAN 12" ABOVE THE BURIED LINE
3. PROVIDE 16 GAUGE DIRECT BURIAL TRACER WIRE WITH ALL NON-METALLIC UNDERGROUND PIPE. WIRE SHALL BE SINGLE STRAND, 14 GAUGE MINIMUM WITH 4/64" VINYL INSULATION WHICH IS UL APPROVED FOR DIRECT UNDERGROUND BURIAL WHEN USED IN A NATIONAL ELECTRIC CODE CLASS II CIRCUIT.
4. METALLIC: BELOW GROUND METALLIC PIPING SHALL HAVE IDENTIFYING TAPE SIMILAR TO THAT SPECIFIED FOR BELOW GROUND NON-METALLIC EXCEPT THAT THE ALUMINUM FOIL FOR LOCATION IS NOT REQUIRED.

F. **TESTING:**
1. TEST ALL PIPES BEFORE THEY ARE CONCEALED IN FURRINGS OR CHASES, INSULATED, PAINTED, OR OTHERWISE COVERED UP OR RENDERED INACCESSIBLE. ACCOMPLISH TESTING BY SECTIONS OF LINES OR SYSTEMS, AS REQUIRED BY CONDITIONS DURING CONSTRUCTION. CLEAN ALL PIPING AND EQUIPMENT BEFORE TESTING.
2. DOMESTIC WATER LINES INTERIOR: HYDROSTATICALLY TEST FOR 6 HOURS AT 150 PSIG. THERE SHALL BE NO LEAKS WHATSOEVER.
3. INTERIOR SOIL, WASTE AND VENT LINES: DRAINAGE AND VENTING SYSTEM PIPING SHALL BE TESTED WITH WATER BEFORE THE FIXTURES ARE INSTALLED. WATER TEST SHALL BE APPLIED TO THE DRAINAGE AND VENTING SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE ENTIRE SYSTEM IS TESTED, ALL OPENINGS IN THE PIPES SHALL BE TIGHTLY CLOSED EXCEPT THE HIGHEST OPENING AND THE SYSTEM SHALL BE FILLED WITH WATER TO THE POINT OF OVERFLOW. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING EXCEPT THE HIGHEST OPENING OF THE SECTION UNDER TEST SHALL BE TIGHTLY PLUGGED, AND EACH SECTION SHALL BE FILLED WITH WATER AND TESTED WITH AT LEAST A 10 FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST, FOR AT LEAST 30 MINUTES BEFORE THE INSPECTION STARTS. THE SYSTEM SHALL THEN BE TIGHT AT ALL JOINTS. WATER SHALL NOT DROP MORE THAN 1" IN 8 HOURS.
4. OTHER TESTS: PERFORM ALL TESTS REQUIRED TO DEMONSTRATE THAT EACH SYSTEM IS OPERATING PROPERLY.

G. **DISINFECTING:**
1. AFTER CLEANING, FLUSHING AND TESTING, THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE DISINFECTION OF ALL DOMESTIC PIPE LINES WHICH SHALL BE DISINFECTED BY THE APPLICATION OF A CHLORINATING AGENT. THE CHLORINATING AGENT MAY BE A LIQUID CHLORINE, LIQUID CHLORINE GAS WATER MIXTURE, OR A CALCIUM HYPOCHLORITE SOLUTION, WHICH SHALL BE FED INTO THE LINES THROUGH A SUITABLE SOLUTION FEED DEVICE.
2. THE CHLORINATING AGENT SHALL BE APPLIED AT OR NEAR THE POINT FROM WHICH THE LINE IS BEING FILLED AND THROUGH A CORPORATION STOP OR OTHER APPROVED CONNECTION INSERTED IN THE HORIZONTAL AXIS OF THE NEWLY LAID PIPE. THE WATER BEING USED TO FILL THE LINE SHALL BE CONTROLLED TO FLOW INTO THE SECTION TO BE DISINFECTED VERY SLOWLY.
3. THE CHLORINE DOSE APPLIED TO THE WATER ENTERING THE LINES SHALL BE AT LEAST 40 TO 60 PARTS PER MILLION. THE TREATED WATER SHALL BE RETAINED IN THE PIPE LINES FOR A PERIOD OF NOT LESS THAN 24 HOURS. AT THE END OF THE 24 HOUR RETENTION PERIOD THE CHLORINE RESIDUAL SHALL BE AT LEAST 20 PPM. ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE LINES UNTIL THE REPLACEMENT WATER IN THE LINES HAS A CHLORINE RESIDUAL OF NOT MORE THAN 0.2 PARTS PER MILLION.

END OF SECTION

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PROFESSIONAL ENGINEER
Alanna Watts
07/29/2024

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BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
-	07/29/2024	Issued For Construction

Plumbing Specifications

P-000

GENERAL NOTES

1. GENERAL NOTES ON THIS SHEET ARE APPLICABLE TO EACH PLUMBING DRAWING OF THIS SET OF CONSTRUCTION DOCUMENTS. NOTES SPECIFIC TO INDIVIDUAL PLUMBING DRAWINGS WILL BE SHOWN ON THE RESPECTIVE PLUMBING DRAWING.
2. THE CONTRACTOR SHALL PROVIDE A COMPLETE PLUMBING SYSTEM TO INCLUDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL SYSTEM INCLUDING ALL NECESSARY APPURTENANCES CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT.
3. ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL CONFORM WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS.
4. APPLICABLE STANDARDS AND REGULATORY BODIES HAVE JURISDICTION OVER THE CLASS OF WORK.
5. MATERIAL AND EQUIPMENT SHALL HAVE STAMPS OR SEALS OF AHRI, ASME, UL OR ASTM.
6. THE CONTRACTOR SHALL MAKE TESTS FOR ACCEPTANCE AND APPROVAL AS REQUIRED BY CODE AND THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES. REQUIRED TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER OF RECORD AND/OR OWNER UNLESS OTHERWISE WAIVED IN WRITING.
7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS AND SERVICES RELATED TO INSTALLATION OF THE WORK.
8. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER TRADES IN ORDER TO RESOLVE ANY CONFLICTS THAT MIGHT ARISE DUE TO THE LOCATION OF EQUIPMENT OR THE USE OF SPACE.
9. EQUIPMENT OF DIFFERENT ELECTRICAL CHARACTERISTICS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICE, CIRCUIT BREAKERS AND CONDUIT ARE APPROPRIATELY MODIFIED AT NO COST TO THE OWNER.
10. RUN ALL HORIZONTAL DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND VENT PIPING ABOVE THE CEILING UNLESS OTHERWISE NOTED.
11. MAKE PIPE PENETRATIONS OF ALL WALLS WITH SLEEVES AS NOTED IN THE SPECIFICATIONS.
12. DO NOT INSTALL EQUIPMENT, PIPING OR DUCTWORK OVER ANY ELECTRICAL EQUIPMENT OR ELECTRICAL SERVICE SPACE.
13. LAYOUT OF PIPING IS DIAGRAMMATIC. RUN ALL EXPOSED PIPING AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. ALLOW FOR RISES, DROPS AND OFFSETS AS REQUIRED.
14. EXTEND CONDENSATE DRAIN LINES AS INDICATED. ALL CONDENSATE DRAIN PIPING SHALL BE TRAPPED AND PITCHED DOWN IN DIRECTION OF FLOW A MINIMUM OF 1/8 INCH PER 1 FOOT.
15. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE AND REPAIR OR REPLACEMENT OF ELECTRICAL COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.
16. FLASHING DETAILS FOR PIPES PENETRATING THE ROOF SHALL BE COORDINATED WITH ARCHITECTURE DETAILS.
17. CONTRACTOR SHALL INSTALL ALL PLUMBING VENTS AND EXHAUST AIR OUTLETS A MINIMUM OF 25'-0" AWAY (PER CODE) FROM ALL OUTSIDE AIR INTAKES, OPERABLE DOORS AND/ OR WINDOWS. CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC BY NATURE, FINAL MEASUREMENTS SHOULD BE MADE AT THE PROJECT SITE.
18. CONTRACTOR TO PROVIDE MEANS TO CLEAR CONDENSATE DRAIN LINE WITHOUT CUTTING THE DRAIN LINE.
19. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

PLUMBING SYMBOLS

	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	GATE VLVE
	PRESSURE REDUCING VALVE
	FLANGE
	UNION
	STRAINER
	PLUG VALVE
	GAS REGULATOR
	CONNECT TO EXISTING
P.O.D	POINT OF DISCONNECT

PLUMBING PIPING LEGEND

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	SEWER
	VENT
CD	CONDENSATE DRAIN
AUX	AUXILARY DRAIN
G	NATURAL GAS
RD	ROOF DRAIN PIPING
OD	OVERFLOW DRAIN PIPING
A	MEDICAL AIR
NOX	NITROUS OXIDE
N	NITROGEN
O	OXYGEN
V	VACUUM
WAGD	WASTE ANESTHETIC GAS DISPOSAL
	INDICATED DEMOLITION
	FLUID FLOW DIRECTION
	PIPE TURNED UP
	PIPE TURNED DOWN
	EXISTING PIPING IS INDICATED SAME AS ABOVE, EXCEPT IN A LIGHTER PEN WEIGHT.

PLUMBING ABBREVIATIONS

A	
AUX	AUXILIARY
AVG	AVERAGE
AFF	ABOVE FINISHED FLOOR
B	
BOJ	BOTTOM OF JOIST
BTUH	BRITISH THERMAL UNIT PER HOUR
MBU	BRITISH THERMAL UNIT DIVIDED BY 1,000
C	
CD	CONDENSATE
D	
DEG	DEGREE
°F	DEGREES FAHRENHEIT
DIA	DIAMETER
ID	DIAMETER, INSIDE
OD	DIAMETER, OUTSIDE
DDC	DIRECT DIGITAL CONTROLS
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
E	
EWT	ENTERING WATER TEMPERATURE
ECW	EXISTING DOMESTIC COLD WATER
EHW	EXISTING DOMESTIC HOT WATER
EHWR	EXISTING DOMESTIC HOT WATER RETURN
ES	EXISTING SEWER
ET	EXPANSION TANK
F	
FT	FEET
G	
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	
HP	HORSEPOWER
I	
IN	INCHES
inHG	INCHES OF MERCURY
inH2O	INCHES OF WATER
J	
NOT USED	
K	
kW	KILOWATT
L	
LWT	LEAVING WATER TEMPERATURES
M	
MPG	MEDIUM PRESSURE NATURAL GAS
N	
G	NATURAL GAS
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
O	
NOT USED	
P	
PH	PHASE
LBS	POUNDS
PSI	POUNDS PER SQUARE INCH
PRV	PRESSURE REDUCED VALVE
Q	
NOT USED	
R	
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY
RPM	REVOLUTIONS PER MINUTE
S	
SA	SHOCK ABSORBER / ARRESTOR
SQ.FT.	SQUARE FEET
T	
T&P	TEMPERATURE AND PRESSURE VALVE
TOJ	TOP OF JOIST
TDH	TOTAL DYNAMIC HEAD
U	
UF	UNDERFLOOR
UG	UNDERGROUND
V	
VFD	VARIABLE FREQUENCY DRIVE
VEL	VELOCITY
VTR	VENT THROUGH ROOF
V	VOLTS
W	
NOT USED	
X	
NOT USED	
Y	
NOT USED	
Z	
NOT USED	

PLUMBING FIXTURE MOUNTING HEIGHT

* ALL DIMENSIONS ARE IN INCHES AND FROM FINISHED FLOOR	AGES: 3 & 4		AGES: 5 THROUGH 8		AGES: 9 THROUGH 12		AGES: 13 THROUGH ADULTS	
	ADA/TAS	STANDARD (4)	ADA/TAS	STANDARD (4)	ADA/TAS	STANDARD (4)	ADA/TAS	STANDARD (4)
WATER CLOSETS								
TOP OF SEAT	11 - 12 MAX	11 - 12 MAX	11 - 15 MAX	11 - 15 MAX	15 - 17 MAX	15 - 17 MAX	17 - 19 MAX	16 - 18 MAX
FLUSH CONTROLS (HANDLE HEIGHT)	30 MAX	30 MAX	30 MAX	30 MAX	30 MAX	30 MAX	30 MAX	30 MAX
URINALS								
RIM OF BASIN	14 MAX	14 MAX	14 MAX	14 MAX	14 MAX	24 MAX	17 MAX	24 MAX
MINIMUM DEPTH (5)	13 1/2 MIN	13 1/2 MIN	13 1/2 MIN	13 1/2 MIN	13 1/2 MIN	13 1/2 MIN	13 1/2 MIN	13 1/2 MIN
FLUSH CONTROLS (HANDLE HEIGHT)	36 MAX	36 MAX	40 MAX	40 MAX	44 MAX	44 MAX	46 MAX	46 MAX
LAVATORIES AND SINKS								
RIM (10)	31 MAX	31 MAX	31 MAX	31 MAX	31 MAX	31 MAX	34 MAX	34 MAX
KNEE CLEARANCE	24 MAX	24 MAX	24 MAX	24 MAX	24 MAX	24 MAX	27 MIN	27 MIN
FRONT EDGE TO WALL/FAUCET HANDLE	20 MAX	20 MAX	20 MAX	20 MAX	20 MAX	20 MAX	20 -25 MAX	20 -25 MAX

NOTES:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF PLUMBING FIXTURES, GRAB BARS, DISPENSERS, ETC. WITH RESPECT TO WALLS, STALLS, ETC.
2. ACCESSIBILITY GUIDELINES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY, AND INTENDED TO SERVE AS A GUIDE FOR CONSTRUCTION PROFESSIONALS AND OWNERS.
3. SOME OF THE INFORMATION SHOWN HERE MAY NOT BE APPLICABLE TO THIS PROJECT
4. STANDARD HEIGHT INFORMATION IS OBTAINED FROM ASPE (AMERICAN SOCIETY OF PLUMBING ENGINEERS), HEIGHTS NOT NOTED BY INFORMATION ON DRAWINGS.
5. DEPTH TO BE MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.
6. KNEE CLEARANCE FOR LAVATORIES AND SINKS SHALL COMPLY WITH TAS.
7. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTER TOP/BASE CABINET MANUFACTURER TO VERIFY THAT THE RIM OF THE LAVATORY/SINK IS INSTALLED AT NO MORE THAN THE MAXIMUM HEIGHT ALLOWED.
8. KNEE CLEARANCE MAY BE LOWERED FROM 27 INCHES TO 24 INCHES, IF THE RIM HEIGHT IS SET AT 31 INCHES.

7/11/2024 10:09:32 AM

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STATE OF TEXAS
ALANNA WATTS
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PROFESSIONAL ENGINEER

07/29/2024

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BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT

BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.

43007.24

KEY PLAN

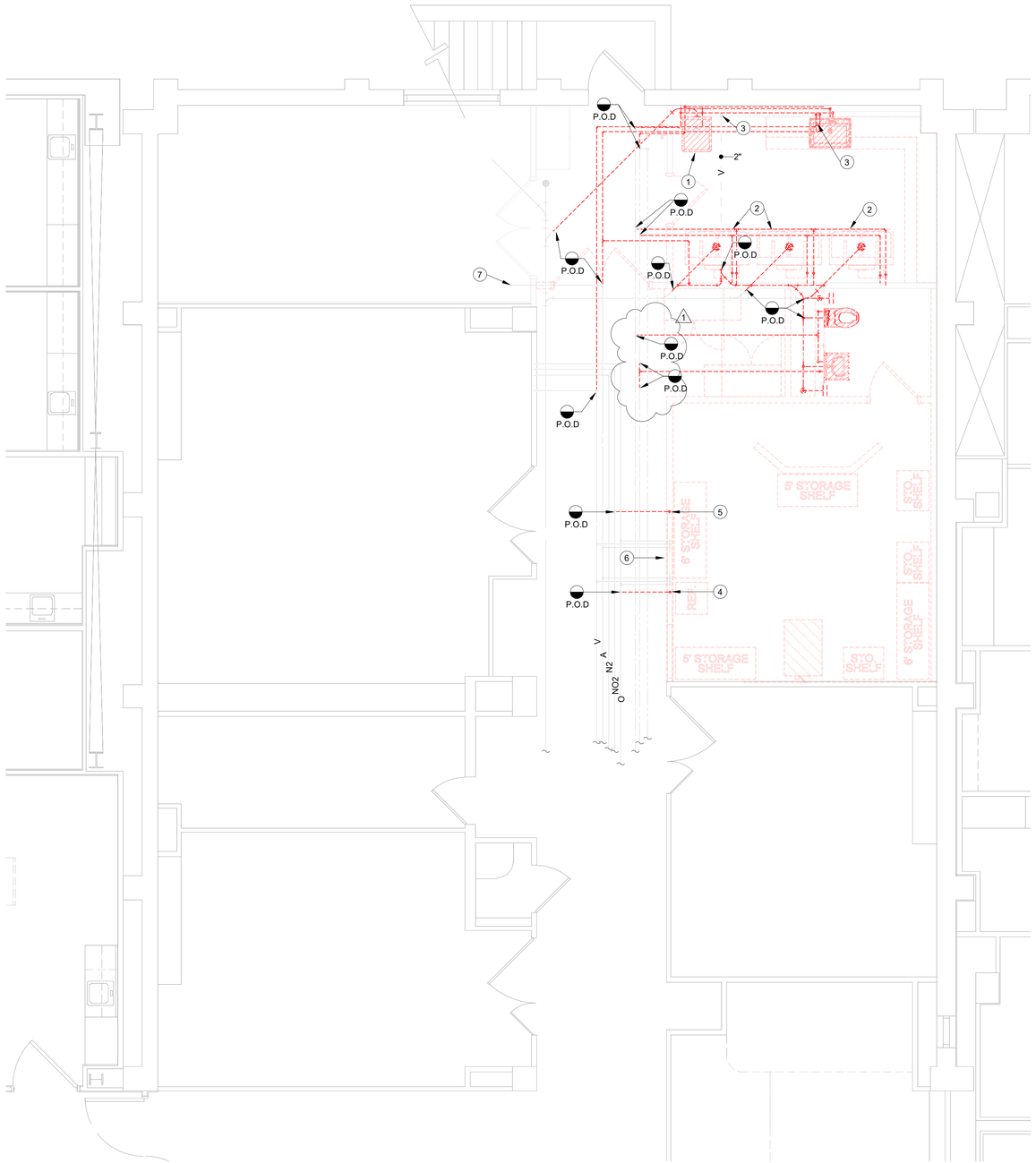
#	DATE	DESCRIPTION
-	07/29/2024	Issued For Construction

Plumbing Symbols, Legends & Abbreviations

P-001

GENERAL NOTES

A. REFER TO GENERAL NOTES ON P-001.



A2 PLUMBING AND MEDICAL GAS DEMOLITION PLAN
1/4" = 1'-0"

NORTH

KEY NOTES

AS INDICATED BY: (#)

1 EXISTING CLINIC SERVICE SINK, FAUCET, FLUSH VALVE AND ALL OTHER EXISTING CONNECTIONS TO BE REMOVED. REFER TO NEW PLUMBING PLAN FOR NEW SINK LOCATION.

2 RELOCATE EXISTING STELIZER TO LOCATION SHOWN ON NEW PLUMBING PLAN. CONTRACTOR TO RELOCATE 1/2" DOMESTIC HOT AND COLD WATER LINES TO THERMOSTATIC MIXING VALVE AND FILTER ASSEMBLY AS CURRENLTY INSTALLED. CONTRACTOR TO RELOCATE INSTRUMENT AIR, FLOOR DRAINS, AND DRAIN SEWER AND VENT LINES AS CURRENTLY INSTALLED. ANY PARTS DAMAGED IN THE TRANSITION SHOULD BE REPLACED BY THE PLUMBING CONTRACTOR FOR THE NEW LOCATION. REUSING EXISTING FITTINGS, ACCESSORIES, FILTERS, MIXING VALVES, PRESSURE SENSORS,ETC IS ACCEPTABLE IF THESE ITEMS REMAIN UNDAMAGED IN THE RELOCATION.

3 REMOVE EXISTING VACUUM AND INSTRUMENT AIR OUTLETS ABOVE SINK. REMOVE PIPING BACK TO POINT OF DISCONNECTION SHOWN.

4 REMOVE EXISTING OXYGEN OUTLET ABOVE SINK. REMOVE PIPING BACK TO POINT OF DISCONNECTION SHOWN.

5 REMOVE EXISTING NITOGREN OUTLET ABOVE SINK. REMOVE PIPING BACK TO POINT OF DISCONNECTION SHOWN.

6 EXISTING ZONE VALVE BOX TO REMAIN. WALL REPLACEMENT IN THIS AREA SHOULD NOT EFFECT THE ZONE VALVE BOX OR THE MEDICAL GAS TO AND FROM IT. SHOULD THE CONTRACTOR DISCOVER THE ZONE VALVE BOX OR MEDICIAL GAS PIPING HAS TO BE REPLACED, CONTRACTOR TO SUBMIT A CHANGE ORDER WITH PROPOSED RELOCATION INFORMATION.

7 EXISTING INSTRUMENT AIR COMPRESSOR. CONTRACTOR TO VERIFY THAT EXISTING COMPRESSOR CAN MEET NEW INSTRUMENT AIR DEMAINS. IF A LARGE COMPRESSOR IS REQUIRED, SUBMIT A CHANGE ORDER WITH A NEW COMPRESSOR TO SERVE THE ADDITIONAL LOAD.

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STATE OF TEXAS
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09/02/2025

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BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	Issued For Construction

Plumbing & Medical Gas Demolition Plan - First Floor

P-101

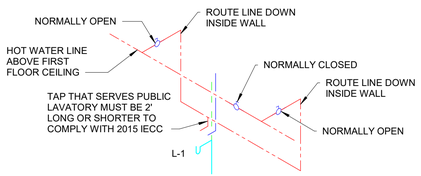
8/27/2025 4:38:28 PM

R_v24

PLUMBING FIXTURE SCHEDULE

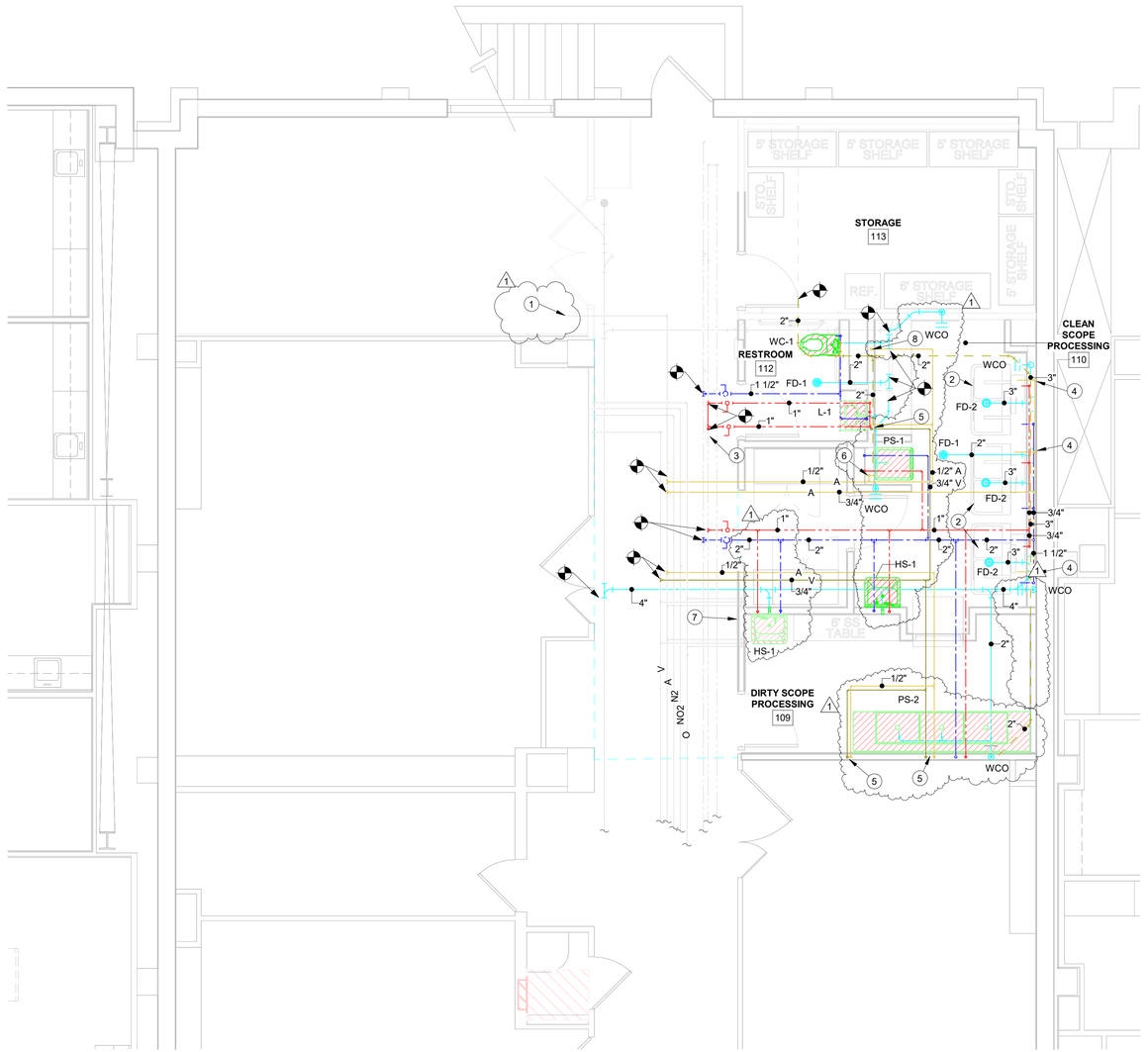
SYMBOL	MINIMUM CONNECTIONS				DESCRIPTION	MANUFACTURER	MODEL NO.	OPTIONS
	CW	HW	VENT	SEWER				
WC-1	1"	--	2"	4"	WALL MOUNTED FLUSH VALVE TAS COMPLIANT WATER CLOSET, ELONGATED CHINA BOWL LESS EVERCLEAN, SIPHON JET FLUSHING ACTION, TOP SPUD, AND AN EXTRA HEAVY DUTY OPEN FRONT WHITE SEAT WITH EVERCLEAN. EXPOSED HARDWIRED SENSOR OPERATED FLUSH VALVE WITH MANUAL OVERRIDE, 1.28 GALLONS PER FLUSH, AND VANDAL RESISTANT STOP CAP. REFER TO P-001 FOR TAS MOUNTING HEIGHT REQUIREMENTS. BARIATRIC CARRIER -1,000 LB.	AMERICAN STANDARD	2257.001 "AFWALL"	VALVE - SLOAN ROYAL 111-1.28 ESS SEAT - AMERICAN STANDARD 5901.110T CARRIER - ZURN Z1203-N-XB COORDINATE WITH ELECTRICAL
L-1	1/2"	1/2"	1-1/2"	1-1/2"	WALL MOUNTED TAS COMPLIANT LAVATORY, VITREOUS CHINA, NOMINAL 20" x 18", BACK AND SIDE SPLASHES, FOR CONCEALED ARM CARRIER, 4" CENTERED FAUCET HOLE. TAS COMPLIANT GOOSENECK LEVER FAUCET WITH WRIST BLADE HANDLES 2.2 GPM. DRAIN OUTLET WITH GRID STRAINER. REFER TO P-001 FOR TAS MOUNTING HEIGHTS.	AMERICAN STANDARD	0356.421 LUCERNE	FAUCET - T&S BRASS B-0892-CR CARRIER - WATTS TCA-411 DRAIN - AMERICAN STANDARD 7723.018
PS-1	1"	1/2"	1-1/2"	3"	WALL HUNG CLINIC SERVICE SINK, VITREOUS CHINA, FLUSHING RIM WITH BLOW-OUT OPERATION, 1-1/2" TOP SPUD, WHITE FINISH. EXPOSED YOKE WALL-MOUNT FAUCET WITH CAST BRASS SPOUT, CERAMIC DISC VALVES, INTEGRAL SUPPLY STOPS, OFFSET SHANKS WITH CHECK VALVES, BOTTOM FORK BRACE, BUCKET HOOK, AND VANDAL-RESISTANT WRIST BLADE HANDLES. MANUAL PISTON FLUSH VALVE, 6.5 GPF, WITH SELF-CLEANING BRASS PISTON, ANGLE STOP WITH BACKFLOW PREVENTER, VACUUM BREAKER, SWEAT SOLDER KIT, AND CHROME-PLATED BRASS BODY.	AMERICAN STANDARD	9512999.020	VALVE - AMERICAN STANDARD 6047.117 FAUCET - AMERICAN STANDARD 8345115.002 PROVIDE 3 RIM GAURDS FOR EACH SIDE OF SINK.
PS-2	1/2"	1/2"	1-1/2"	1-1/2"	THREE COMPARTMENT STERILE PROCESSING SINK, 120" x 28" x 44" ADJUSTABLE HEIGHT CONSTRUCTED OF WELDED, SANITARY TYPE 304 STAINLESS STEEL WITH LARGE RADIUS INSIDE CORNERS FOR EASY CLEANUP. HOT AND COLD FAUCET, ADDITIONAL SPRAY HOSE, LEVER HANDLE DRAINS, 4 INCH BACK SPLASH, ADJUSTABLE LEVELING FEET, AND COMPRESSED AIR NOZZLE.	STERIS COORPERATION	AMSCO 50	ENSURE FAUCET, HOSE SPRAYER AND COMPRESSED AIR NOZZLE ARE PROVIDED BY STERIS AS OPTIONS
HS-1	1/2"	1/2"	1-1/2"	1-1/2"	WALL MOUNTED STAINLESS STEEL HAND SINK, TSA COMPLIANT TYPE 304 STAINLESS STEEL, WITH REMOVABLE FRONT PANEL FOR ACCESS TO THE PLUMBING. FULL WIDTH BACKSPLASH WITH A BRUSHED FINISH. TAS COMPLIANT FAUCET SINK MOUNTED, 1.2 GPM, MOTION ACTIVATED WALL POWERED. EY/FACE WASH SIMPLE PULL-DOWN MOTION PROVIDES COVERAGE AND FLOW FOR EYE/FACE WASH. FURNISHED WITH IN- WALL CARRIER. PROVIDE THERMOSTATIC MIXING VALVE BELOW SINK. REFER TO P-001 FOR TAS MOUNTING HEIGHTS.	HAWS	7660	CARRIER - HAWS 6800 DRAIN - HAWS 6810W
FD-1	--	--	2"	AS SHOWN ON DWG	FLOOR DRAIN - 6" DIA. ADJUSTABLE POLISHED NICKEL BRONZE STRAINER, CAST IRON BODY WITH REVERSIBLE CLAMPING COLLAR. P-TRAP SHALL BE DEEP SEAL TYPE. COORDINATE FLOORING TYPE WITH ARCHITECTURE.	WATTS	FD-100A	TRAP GUARD - PROSET
FD-2	--	--	2"	AS SHOWN ON DWG	FLOOR DRAIN - 6" DIA. ADJUSTABLE POLISHED NICKEL BRONZE STRAINER, CAST IRON BODY WITH REVERSIBLE CLAMPING COLLAR. P-TRAP SHALL BE DEEP SEAL TYPE. COORDINATE FLOORING TYPE WITH ARCHITECTURE.	WATTS	FD-100-EF	TRAP GUARD - PROSET PROVIDE WITH ROUND FUNNEL
WCO	--	--	---	AS SHOWN ON DWG	WALL CLEANOUT - NO-HUB PVC CLEANOUT TEE WITH ROUND STAINLESS STEEL COVER AND CENTER SCREW, GASKETED SEAL BRASS THREADED PLUG WITH RECESSED SOCKET.	WATTS	CO-460-RD	

1. MANUFACTURERS WITH MODEL NUMBERS ARE BASE ITEMS. OTHER MANUFACTURERS MUST BE EQUIVALENT MANUFACTURERS UNLESS NOTED OTHERWISE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL WALL-MOUNTED FIXTURES, REFER TO P-001 SHEET.
3. EACH UNDER SLAB OR CONCEALED P-TRAP SHALL BE A DEEP-SEAL TYPE.
4. PROVIDE EACH WALL MOUNTED PLUMBING FIXTURE, SUCH AS SINKS, LAVATORIES, ETC., WITH A FLOOR MOUNTED SUPPORT CARRIER WITH RECTANGULAR LEGS.
5. UNLESS SCHEDULED OTHERWISE, PROVIDE EACH LAVATORY, SINK, , ETC. WITH A P-TRAP ASSEMBLY CONSISTING OF A CHROME-PLATED (C.P.) CAST BRASS TRAP WITH CLEANOUT PLUG, C.P. TUBING OUTLET (MIN. 17 GA.), AND C.P. CAST BRASS ESCUTCHEON WITH SETSCREW.
6. PROVIDE EACH FIXTURE WHICH REQUIRES COLD AND/OR HOT WATER (EXCEPT FLUSH VALVES) WITH A SUPPLY/STOP ASSEMBLY CONSISTING OF A C.P. BRASS STOP VALVE (MIN. 1/2") WITH QUARTER STOPS AND LOCK SHIELD, STAINLESS STEEL FLEXIBLE RISER, C.P. BRASS NIPPLE, AND C.P. CAST BRASS ESCUTCHEON WITH SETSCREW.
7. FOR EACH PUBLIC LAVATORY OR SINK WITH EXPOSED DRAIN AND BOTH COLD AND HOT SUPPLY COMPONENTS, PROVIDE A MANUFACTURED INSULATION KIT MADE FROM MOLDED CLOSED CELL VINYL THAT IS ANTI-MICROBIAL AND SEAMLESS. EACH KIT SHALL COVER THE TAILPIECE, P-TRAP, WALL BEND, BOTH WATER SUPPLY STOPS, AND BOTH WATER RISERS. KITS SHALL BE EQUAL OR EQUIVALENT TO "PROWRAP" BY McGUIRE OR LAV-GUARD BY TRUEBRO.
8. WHERE ARCHITECTURAL PLANS SHOW WATER CLOSETS, PROVIDE AND INSTALL FLUSHING VALVE SUCH THAT FLUSH HANDLE IS ON WIDE SIDE OF WATER CLOSET.
9. PROVIDE WATER HAMMER ARRESTORS LOCATED AND SIZED ACCORDING TO PDI RECOMMENDATIONS.
10. PROVIDE ISOLATION VALVES IN CW, HW AND HWR PIPING AS NEED OR AS SHOWN FOR ALL GROUPS OF FIXTURES.
11. INSTALL PLUMBING FIXTURES IN ACCORDANCE WITH LATEST ADA AND TAS STANDARDS.



NOTES:
1. REFER TO PLUMBING RISERS FOR PIPING SIZES AND LAYOUTS.

A1 PUBLIC LAVATORY SCHEMATIC
NTS



A2 PLUMBING AND MEDICAL GAS PLAN
1/4" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO GENERAL NOTES ON P-001.

KEY NOTES

AS INDICATED BY: (#)

1 EXISTING INSTRUMENT AIR COMPRESSOR. CONTRACTOR TO VERIFY THAT EXISTING COMPRESSOR CAN MEET NEW INSTRUMENT AIR DEMAINS. IF A LARGE COMPRESSOR IS REQUIRED, SUBMIT A CHANGE ORDER WITH A NEW COMPRESSOR TO SERVE THE ADDITIONAL LOAD.

2 RELOCATE EXISTING STELIZER REFER TO PLUMBING DEMOLTION PLAN FOR PREVIOUS LOCATION. CONTRACTOR TO RELOCATE 1/2" DOMESTIC HOT AND COLD WATER LINES TO THERMOSTATIC MIXING VALVE AND FILTER ASSEMBLY AS CURRENLTY INSTALLED. CONTRACTOR TO RELOCATE INSTRUMENT AIR, FLOOR DRAINS, AND DRAIN SEWER AND VENT LINES AS CURRENTLY INSTALLED. ANY PARTS DAMAGED IN THE TRANSITION SHOULD BE REPLACED BY THE PLUMBING CONTRACTOR FOR THE NEW LOCATION. REUSING EXISTING FITTINGS, ACCESSORIES, FILTERS, MIXING VALVES, PRESSURE SENSORS,ETC IS ACCEPTABLE IF THESE ITEMS REMAIN UNDAMAGED IN THE RELOCATION.

3 VERIFY SIZE OF EXISTING DOMESTIC HOT WATER LINE IS 1" AND CONNECT NEW PIPING AS SHOWN TO MEET 2015 IECC HOT WATER REQUIREMENTS FOR PUBLIC RESTROOMS ROUTE DOMESTIC 1" HOT WATER LINE DOWN IN WALL TO MEET MINIMUM DISTANCE REQUIREMENTS. REFER TO DETAIL ON THIS SHEET FOR MORE INFORMATION.

4 PROVIDE 1/2" INSTRUMENT AIR TO SERVE STERLIZER.

5 PROVIDE INSTRUMENT AIR AND VACCUUM TO PIN INDEX BEACON MEDAES OUTLET TO MATCH EXISTING HOSPITAL OUTLETS IN THIS AREA. (1)

6 PROVIDE 1/2" INSTRUMENT AIR OUTLET TO SERVE CLEAN SCOPE PROCESSING.

7 EXISTING ZONE VALVE BOX TO REMAIN. WALL REPLACEMENT IN THIS AREA SHOULD NOT EFFECT THE ZONE VALVE BOX OR THE MEDICAL GAS TO AND FROM IT. SHOULD THE CONTRACTOR DISCOVER THE ZONE VALVE BOX OR MEDICIAL GAS PIPING HAS TO BE REPLACED, CONTRACTOR TO SUBMIT A CHANGE ORDER WITH PROPOSED RELOCATION INFORMATION. (1)

8 PROVIDE INSTRUMENT AIR TO PIN INDEX BEACON MEDAES OUTLET TO MATCH EXISTING HOSPITAL OUTLETS IN THIS AREA.

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PROFESSIONAL ENGINEER
Alanna Watts

09/02/2025

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BSA GI Lab Renovation

Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	Issued For Construction

Plumbing & Medical Gas Plan - First Floor

P-111

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GENERAL MECHANICAL NOTES

A. FIRESTOP PENETRATIONS IN FIRE-RATED WALLS, FLOORS, ETC. MECHANICAL CONTRACTOR SHALL MAKE REQUIRED PENETRATIONS IN RATED WALLS, FLOORS, ETC. NEATLY WITH A CUTTING TOOL, CONTRACTOR SHALL MAKE THE PENETRATIONS NO LARGER THAN NECESSARY.
B. SUPPORT DUCTWORK AND EQUIPMENT FROM THE BUILDING STRUCTURE.
C. FLEXIBLE DUCT SHALL BE ALLOWED. PROVIDE SPIN-IN SHEET METAL COLLAR WITH INTEGRAL BALANCING DAMPER WITH EXTENDED LENGTH OPERATOR FOR EACH SUPPLY AIR TAP. PROVIDE ALL LOW PRESSURE SUPPLY AIR DUCTWORK WITH BLANKET INSULATION WITH A MINIMUM "R-VALUE" OF 6.0. INSULATION SHALL BE OWENS-CORNING FIBERGLASS SERIES OR EQUIVALENT, ONE POUND PER CUBIC FOOT MINIMUM DENSITY WITH FOIL REINFORCED KRAFT (FRK) VAPOR BARRIER FACING. INSULATION SHALL BE WRAPPED TIGHTLY ON THE DUCTWORK WITH ALL CIRCUMFERENTIAL JOINTS BUTTED AND LONGITUDINAL JOINTS OVERLAPPED A MINIMUM 2". ADHERE INSULATION TO METAL WITH 4" STRIPS OF INSULATION BONDING ADHESIVE AT 8" ON CENTER. ON CIRCUMFERENTIAL AND LONGITUDINAL JOINTS, THE 2" FLANGE OF THE FACING SHALL BE SECURED USING 9/16" FLARE DOOR STAPLES APPLIED 6" ON CENTER AND TAPED WITH 4" WIDE FIBERGLASS TAPE EMBEDDED IN FOSTER 30-35 WHITE VAPOR BARRIER EMULSION AND COVERED WITH FOSTER 30-35 WHITE VAPOR BARRIER EMULSION UNTIL THE TAPE IS COMPLETELY COVERED. ALL PIN PENETRATIONS OR PUNCTURES IN FACING SHALL ALSO BE TAPED.
D. BEFORE INSTALLATION, EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, ANY DEVICE WITH ELECTRICAL CONNECTIONS, DUCTWORK, INSULATION, PIPING, VALVES, AIR DEVICES, ETC., SHALL NOT BE STORED DIRECTLY ON GRADE OR ON A SLAB OR FLOOR. BEFORE AND AFTER INSTALLATION, SUCH EQUIPMENT AND DEVICES SHALL BE PROTECTED FROM ENTRY OF DIRT, TRASH, WATER (EXCEPT AS REQ'D), VERMIN, ETC.
E. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF AIR DEVICES AND DUCTWORK WITH LIGHTS, CEILING PANELS, JOIST SPACING AND ARCHITECTURAL REFLECTED CEILING PLAN (REF. ELECTRICAL PLANS AND ARCHITECTURAL PLANS).
F. CONTRACTOR SHALL NOT CUT, DRILL, OR ALTER ANY ELEMENT OF A WALL, FLOOR, CEILING, ROOF, SLAB, ETC., WITHOUT FIRST RECEIVING INSTRUCTIONS FROM ARCHITECT. ALL CUTS SHALL BE MADE WITH A CUTTING TOOL.
G. PATCHING OR SEALING OF CUTS, PENETRATIONS, ETC., SHALL BE DONE BY CONTRACTOR PER INSTRUCTIONS FROM AND TO FINAL APPROVAL OF ARCHITECT. COORDINATE WITH GENERAL CONTRACTOR.
H. DUCTWORK DIMENSIONS SHOWN ARE INTERIOR SHEET METAL SIZES.
I. CONTRACTOR SHALL FIELD VERIFY CONDITION OF EXISTING EQUIPMENT AND PROVIDE NECESSARY COMPONENTS TO ASSEMBLE AND TO START-UP COMPLETE AND FULLY OPERATIONAL SYSTEMS.
J. ALL WORK SHALL COMPLY WITH SMACNA STANDARDS, LOCAL CODES, APPLICABLE ENERGY CODES, SAFETY REQUIREMENTS, AND THE LOCAL AUTHORITY HAVING JURISDICTION.
K. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED FEES, REVIEWS, INSPECTIONS AND PERMITS REQUIRED FOR THIS WORK.
L. AIRFLOW CONDITIONS SHALL BE RATED FOR LOCAL ALTITUDE.
M. DYNAMIC FIRE DAMPERS. PROVIDE AND INSTALL 1 1/2 HOUR FIRE RESISTANCE DAMPERS IN ACCORDANCE WITH NFPA 90A AND UL 555 WHERE INDICATED. DYNAMIC CLOSURE RATING: DAMPERS CLASSIFIED FOR DYNAMIC CLOSURE TO 2000 FPM AND 4 INCHES WG STATIC PRESSURE. CONSTRUCTION: INTEGRAL SLEEVE FRAME: MINIMUM 20 GAGE ROLL FORMED GALVANIZED STEEL. LENGTH: 12 INCHES. BLADES: STYLE: CURTAIN TYPE. ACTION: SPRING OR GRAVITY CLOSURE UPON FUSIBLE LINK RELEASE. MATERIAL: MINIMUM 24 GAGE ROLL FORMED, GALVANIZED STEEL. CLOSURE SPRINGS: TYPE 301 STAINLESS STEEL, CONSTANT FORCE TYPE, IF REQUIRED. FUSIBLE LINK RELEASE TEMPERATURE 165 F. MOUNTING VERTICAL OR HORIZONTAL AS INDICATED ON DRAWINGS. DUCT TRANSITION CONNECTION, DAMPER STYLE: A STYLE - RECTANGULAR CONNECTION, FRAME AND BLADES IN AIR STEAM.

HEATING VENTILATING AND AIR CONDITIONING SPECIFICATIONS

I. GENERAL

A. **NOTE:**
1. CONFORM WITH THE APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS, THE SPECIAL CONDITIONS AND THE GENERAL REQUIREMENTS.

B. **SUBMITTALS**
1. SUBMIT MANUFACTURER'S DATA AND SHOP DRAWING ON ALL MATERIALS.

C. **SCOPE:**
1. THIS SECTION OF THE SPECIFICATIONS PERTAINS TO ALL LABOR, MATERIALS, EQUIPMENT AND SERVICE NECESSARY FOR AND INCIDENTAL TO THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN.
2. ALL APPURTENANCES AND AUXILIARY EQUIPMENT NECESSARY TO THE FUNCTION OF ANY SPECIFIED ITEM OF EQUIPMENT SHALL BE FURNISHED WITH THE ITEM OF EQUIPMENT, WHETHER SPECIFICALLY MENTIONED OR NOT. EACH ITEM OF EQUIPMENT SHALL PERFORM THE FUNCTION FOR WHICH IT IS INTENDED, AND ALL WORK NECESSARY TO PROVIDE A COMPLETE FUNCTIONAL SYSTEM SHALL BE PROVIDED.
3. THIS SPECIFICATION REQUIRES THAT ALL ITEMS OF EQUIPMENT BE COMPLETELY INSTALLED, FINALLY CONNECTED, TESTED AND PLACED IN SERVICE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL REQUIREMENTS OF THE EQUIPMENT AND THE CONTRACT AND CERTIFY WITH THE SUBMITTAL OF THE SHOP DRAWINGS THAT ALL REQUIREMENTS HAVE BEEN MET, INCLUDING:
   a. SPACE REQUIREMENTS
   b. ELECTRICAL REQUIREMENTS (VOLTAGE, PHASE, WIRES - NO. AND SIZE)
   c. CAPACITIES
   d. CLEARANCE FOR MAINTENANCE
   e. QUALITY
   f. QUANTITY

II. PRODUCTS

A. **METAL DUCTWORK:**
1. EXCEPT AS OTHERWISE SPECIFIED HEREIN, IN OTHER SECTIONS OF THE SPECIFICATIONS, AND/OR NOTED ON THE DRAWINGS, LOW PRESSURE DUCTS SHALL BE CONSTRUCTED OF GALVANIZED STEEL SHEETS IN ACCORDANCE WITH THE RECOMMENDED CONSTRUCTION FOR LOW PRESSURE DUCTWORK INSOFAR AS GAUGES OF METAL TO BE USED, BRACING OF JOINTS AND JOINT CONSTRUCTION AS ESTABLISHED IN HVAC DUCT CONSTRUCTION STANDARDS, FIRST EDITION, AS PUBLISHED BY SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA).
2. UNLESS INDICATED OTHERWISE, ALL DUCT SHALL BE CONSTRUCTED IN CONFORMANCE WITH 1" W.G. PRESSURE CLASS EXCEPT DUCT UPSTREAM OF TERMINAL DEVICES IN VAHRIABLE AIR VOLUME SYSTEMS SHALL BE IN CONFORMANCE WITH 2" W.G. PRESSURE CLASS.
3. MAKE SQUARE ELBOWS WHERE SHOWN OR REQUIRED, WITH FACTORY-FABRICATED TURNING VANES. MAKE ALL OTHER CHANGES IN DIRECTION WITH ROUNDED ELBOWS HAVING A CENTERLINE RADIUS EQUAL TO 1-1/2 TIMES THE WIDTH OF THE DUCT IN THE PLANE OF THE BEND.
4. MAKE TRANSFORMATIONS IN DUCT SHAPE OR DIMENSION WITH GRADUAL SLOPES ON ALL SIDES. MAKE INCREASES IN DIMENSIONS IN THE DIRECTION OF AIR FLOW, WITH A MAXIMUM SLOPE OF 1" IN 7" ON ANY SIDE. MAKE DECREASES IN DIMENSIONS IN THE DIRECTION OF AIR FLOW PREFERABLY WITH A SLOPE OF 1" IN 7" ON ANY SIDE, BUT WITH A MAXIMUM SLOPE OF 1" IN 4" WHERE CONDITIONS NECESSITATE.
5. DUCTS SHALL BE ROUTED IN CONJUNCTION WITH PIPES, ELECTRICAL CONDUITS, CEILING HANGERS, ETC. SO AS TO AVOID INTERFERENCES INSOFAR AS POSSIBLE. WHERE DUCT PENETRATIONS ARE UNAVOIDABLE, PROVIDE STREAMLINE SHAPED SLEEVES AROUND SUCH MATERIAL PENETRATIONS, MADE AIRTIGHT AT DUCT SURFACES, EXCEPT THAT SUCH SLEEVES ARE NOT REQUIRED AT TIE RODS. WHERE OBSTRUCTIONS ARE OF A SIZE TO EXCEED 10% OF THE DUCT AREA, THE DUCT SHALL BE TRANSFORMED TO MAINTAIN THE SAME DUCT AREA.
6. TRANSVERSE DUCT JOINTS 36" AND LARGER SHALL BE MADE WITH THE DUCTMATE SYSTEM OR AN APPROVED EQUAL. THE DUCTMATE SYSTEM COMPONENTS SHALL BE OF STANDARD CATALOGUE MANUFACTURE AS SUPPLIED BY DUCTMATE INDUSTRIES, INC.
7. THE INSTALLATION OF THE DUCTMATE SYSTEM SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTION AND INSTALLATION MANUALS.

HEATING VENTILATING AND AIR CONDITIONING SPECIFICATIONS

8. THE STANDARD DUCTMATE 35 SYSTEM JOINT IS THE EQUIVALENT OF A SMACNA "J" CONNECTION. THE DUCTMATE 25 SYSTEM JOINT IS THE EQUIVALENT OF A SMACNA "F" CONNECTION. CONSTRUCTION OF THE DUCT, SUCH AS GAUGE, REINFORCING, ETC., SHALL BE AS INDICATED IN THE ADDENDUM TO THE SMACNA MANUALS AS PROVIDED BY THE MANUFACTURER AND AS TESTED BY PITTSBURGH TESTING LABORATORY.

B. **DUCT WRAP:**
INSULATE THE SUPPLY, RETURN AND FRESH AIR DUCTS WITH 2" THICK, 3/4 LB. DENSITY, OWENS-CORNING "ALL SERVICE WRAP" GLASS FIBER FLEXIBLE INSULATION HAVING A FACTORY APPLIED FSKL VAPOR BARRIER JACKET. THIS INSULATION SHALL BE SECURED, VAPOR BARRIER SIDE OUT, TO SHEET METAL. ON HORIZONTAL RUNS, LAP TOP AND BOTTOM SHEETS OVER EDGES OF SIDE PIECES. BUTT JOINTS TIGHTLY. DUCTS HANDLING WARM AIR ONLY NEED NOT BE VAPOR SEALED. ON DUCTS 24" AND WIDER, INSTALL CLIPS ON BOTTOM OF DUCT, MAXIMUM OF 18" O.C., TO PREVENT INSULATION FROM SAGGING.

C. **DUCT LINER:**
1. ALL SHEET RETURN AIR PLENUMS SHALL BE LINED.
2. THE LISTED DUCTS SHALL BE LINED TO A THICKNESS OF 1-1/2" WITH MANSVILLE "LINACOUSTIC" MAT FACED DUCT LINER, OR EQUAL DUCT LINER COATED WITH NEOPRENE ON ONE SIDE.
3. DUCT LINER SHALL HAVE AN AVERAGE THERMAL CONDUCTIVITY OF .26 BTU-IN./SQ. FT.-DEGREE F. AT A MEAN TEMPERATURE OF 75 F.
4. THE DUCT LINER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH THE COATED SIDE AWAY FROM THE METAL, USING WELD PINS OR ADHESIVE TUFFBOND AND ADHESIVE TYPE METAL CLIPS, GEMCO, OR EQUAL, OF THE TYPE WHICH DO NOT PROTRUDE THROUGH THE DUCT. THE SIZE OF THE DUCTS INDICATED ARE ACTUAL INTERNAL SIZES AND THE SHEET METAL SIZES SHALL BE 3" GREATER IN BOTH DIMENSIONS TO ACCOMMODATE THE LINING. NO VOIDS ARE PERMITTED.
5. USE 100% ADHESIVE COVERAGE AND CLIPS AT THE RATE AS SPECIFIED BY SMACNA.

D. **DUCT SEALER:**
1. ALL SUPPLY AIR AND EXHAUST AIR DUCTWORK SHALL BE SEALED TO PROVIDE AIRTIGHT CONSTRUCTION. METAL SURFACES TO BE JOINED SHALL BE CLEAN, DRY AND FREE OF DIRT OR GREASE. APPLY A HEAVY COAT OF KINGCO SEAL-RITE 18-120 TO THE INTERIOR METAL SURFACE OF THE SLIP JOINT, THEN INTERLOCK INTO PLACE METAL DUCT SECTIONS. APPLY A HEAVY COAT OF 18-120 TO THE EXTERIOR METAL SURFACE DUCT JOINT, MAKING SURE ANY VOIDS ARE FILLED TO SECURE A CONTINUOUS AIR PRESSURE SEALANT.
2. ALLOW SEALANT TO DRY A MINIMUM OF 48 HOURS BEFORE PRESSURIZING SYSTEM.
3. DUCTMATE PROSEAL OR HARDCAST WILL BE CONSIDERED EQUAL.

E. **AIR CONTROL DEVICES:**
1. MANUAL DAMPERS SHALL BE INSTALLED AS REQUIRED TO AFFORD COMPLETE CONTROL OF THE AIR FLOW IN THE VARIOUS DUCT SYSTEMS. IN RECTANGULAR SUPPLY DUCTS, A VOLUME DAMPER SHALL BE INSTALLED AT EACH POINT WHERE A BRANCH IS TAKEN OFF TO ACHIEVE THE FINAL AIR BALANCE.
2. VOLUME DAMPERS OF THE "BUTTERFLY" TYPE SHALL BE CONSTRUCTED OF 22 GAUGE GALVANIZED STEEL RIVETED OR WELDED TO SQUARE OPERATING RODS. DAMPERS SHALL HAVE BEARINGS OF BRASS, BRONZE OR APPROVED PLASTIC IN MOST INSTANCES. VOLUME DAMPERS OF THE BUTTERFLY TYPE SHALL BE USED ONLY IN CASES WHERE NEITHER DIMENSION OF THE DAMPER EXCEED 24". THE METAL USED SHALL MATCH THAT OF DUCT SYSTEM CONTAINING THE DAMPER IN EACH CASE. USE SPECIAL METALS FOR DAMPER RODS AND BEARINGS AS REQUIRED TO RESIST CORROSION.
3. IN CASES WHERE EITHER DIMENSION OF THE SMALLER BRANCH DUCT EXCEEDS 24", VOLUME DAMPERS SHALL BE OF THE OPPOSED BLADE TYPE WITH BLADES LINKED TOGETHER AND CONTROLLED FROM A SINGLE POINT. THEY SHALL BE CONSTRUCTED OF NO. 16 GAUGE STEEL EITHER GALVANIZED OR WITH A BAKED ENAMEL FINISH. DAMPERS SHALL HAVE BRASS, BRONZE OR APPROVED PLASTIC SLEEVE BEARINGS. BLADES SHALL BE NOT MORE THAN 12" IN WIDTH AND SHALL BE OPPOSED ACTING, AND THOSE FOR AUTOMATIC DAMPERS SHALL HAVE NEOPRENE BLADE EDGES AND STAINLESS STEEL JAMB SEALS. BLADES SHALL BE MOUNTED IN SUITABLE BAND OR ANGLE IRON FRAMES STRONGLY BRACED TO INSURE RIGIDITY.
4. EACH VOLUME DAMPER, UNLESS SPECIFIED FOR AUTOMATIC OPERATION, SHALL BE FITTED WITH AN ADJUSTING DEVICE HAVING A LOCKING MECHANISM. WHEREVER THE DUCTS ARE RENDERED INACCESSIBLE BEHIND NON-REMOVABLE CEILINGS OR FURRINGS, OR OTHER CONSTRUCTION THAT IS NOT EASILY REMOVABLE TO PERMIT ACCESS TO THE DUCTS, THE DEVICES SHALL BE EQUAL TO YOUNG REGULATOR CO. NO. 1200 RIGHT ANGLE WORM GEAR REGULATOR WITH 301 CONCEALED DAMPER REGULATOR. ON EXPOSED OR EASILY ACCESSIBLE DUCTS THE ADJUSTING DEVICES SHALL BE EQUAL TO YOUNG NO. 1 OR NO. 900 AND SHALL BE FASTENED TO THE DUCTS.
5. DAMPER RODS AND OPERATORS ON INSULATED DUCTS SHALL HAVE EXTENDED RODS AND STAND OFF BRACKETS.

F. **FLEXIBLE DUCT:**
1. FLEXIBLE DUCT SHALL BE A FACTORY FABRICATED ASSEMBLY CONSISTING OF AN INNER SLEEVE, INSULATION AND AN OUTER MOISTURE BARRIER. THE INNER SLEEVE SHALL BE CONSTRUCTED OF A CONTINUOUS VINYL-COATED HELICAL-WOUND SPRING STEEL WIRE HELIX FUSED TO A CONTINUOUS LAYER OF FIBER GLASS IMPREGNATED AND COATED WITH VINYL. FIBERGLASS WOOL SHALL ENCASE THE INNER SLEEVE AND BE SHEATED WITH AN OUTER ALUMINIZED VAPOR MOISTURE BARRIER. THE FLEXIBLE DUCT SHALL BE RATED FOR A MAXIMUM WORKING VELOCITY OF 4,000 FPM, SHALL HAVE A PRESSURE RATING OF 10 INCH WG POSITIVE AND 1 INCH WG NEGATIVE, SHALL HAVE A TEMPERATURE RANGE -10°F TO 160°F, SHALL HAVE A THERMAL RESISTANCE 6.0 SQ. FT. X H °F/BTU, AND SHALL BE LISTED BY THE UNDERWRITERS' LABORATORIES UNDER THEIR UL-181 STANDARDS AS A CLASS 1 DUCT AND SHALL COMPLY WITH NFPA STANDARD #90A.
2. FLEX DUCT SHALL NOT EXCEED 4'-0" IN LENGTH OR HAVE MORE THAN 90 DEGREE OF BEND. IF LONGER DUCT IS REQUIRED USE ROUND SHEET METAL DUCT WITH 2" THICK DUCT INSULATION TO MAKE-UP THE DIFFERENCE IN LENGTH.

G. **FLEXIBLE CONNECTIONS:**
1. PROVIDE SOUND ISOLATING FLEXIBLE CONNECTIONS BETWEEN CONNECTING DUCTS AND THE INLET AND OUTLET OF EACH FAN. THESE CONNECTIONS SHALL IN EACH CASE BE LONG ENOUGH TO PERMIT A MINIMUM SEPARATION OF 3" BETWEEN THE DUCT AND THE FAN OR UNIT HOUSING WITH AT LEAST 1" SLACK IN THE FLEXIBLE MATERIAL ITSELF.
2. FLEXIBLE CONNECTORS FOR INDOOR APPLICATION SHALL BE FIRE RESISTANT, WATERPROOF, AND MILDEW RESISTANT COATED NEOPRENE. FLEXIBLE CONNECTOR SHALL BE EQUAL TO DUCTMATE PROFLEX NEOPRENE.
3. FLEXIBLE CONNECTORS FOR OUTDOOR APPLICATION SHALL BE FIRE RESISTANT, WATERPROOF, MILDEW RESISTANT, AND U.V. RESISTANT HYPALON. FLEXIBLE CONNECTOR SHALL BE EQUAL TO DUCTMATE PROFLEX HYPALON.

H. **AIR DISTRIBUTION DEVICES:**
1. FURNISH AND INSTALL ALL GRILLES, REGISTERS, AND DIFFUSERS FOR EVERY PURPOSE. REFER TO THE TABULATION ON THE DRAWINGS FOR TYPES, SIZES AND ACCESSORIES.
2. ALL GRILLES, REGISTERS, AND DIFFUSERS LOCATED IN THE CEILING SHALL BE FACTORY FINISHED IN OFF-WHITE. ALL OTHER GRILLES AND REGISTERS SHALL BE FACTORY PRIMED AND SPRAY PAINTED 2 COATS ON THE JOB.
3. ALL GRILLES AND REGISTERS SHALL BE INSTALLED WITH TAMPERPROOF SCREWS AND SHALL BE SECURED TO THE DUCT WITH A MINIMUM OF FOUR SCREWS.
4. WHERE CEILING MOUNTED AIR DISTRIBUTION DEVICES ARE SHOWN AND REQUIRE A CEILING RADIATION DAMPER, THE GRILLE OR DIFFUSER SHALL BE CONSTRUCTED OF STEEL, ALUMINUM IS NOT ACCEPTABLE.
5. AIR DISTRIBUTION DEVICES AS MANUFACTURED BY NAILOR, TITUS, METAL-AIRE, OR KRUEGER WILL BE ACCEPTABLE.

I. **FLASHING:**
1. WHERE THE CONTRACTOR INSTALLS DUCTS OR PIPING THROUGH THE ROOF, HE SHALL FLASH AND COUNTERFLASH THEM INTO THE ROOF CONSTRUCTION TO THE SATISFACTION OF THE ARCHITECT. ALL SUCH FLASHING SHALL BE CONSTRUCTED OF COPPER BEARING GALVANIZED STEEL SHEETS.

HEATING VENTILATING AND AIR CONDITIONING SPECIFICATIONS

III. EXECUTION

A. **TESTING, ADJUSTING AND BALANCING MECHANICAL SYSTEMS:**
1. UPON COMPLETION OF THE INSTALLATION AND START UP OF THE MECHANICAL EQUIPMENT, CHECK, ADJUST AND BALANCE SYSTEMIC COMPONENTS TO OBTAIN OPTIMUM CONDITIONS IN EACH CONDITIONED SPACE TO THE BUILDING.
2. TAB SHALL BE DONE BY AN INDEPENDENT THIRD PARTY FIRM SPECIALIZING IN TAB.
3. PREPARE AND SUBMIT TO THE ARCHITECT COMPLETE REPORTS ON THE BALANCE AND OPERATION OF THE SYSTEM.
4. MAKE A TOTAL OF THREE INSPECTIONS WITHIN 90 DAYS AFTER OCCUPANCY OF THE BUILDING TO INSURE THAT SATISFACTORY CONDITIONS ARE BEING MAINTAINED THROUGHOUT AND TO SATISFY ANY UNUSUAL CONDITIONS.
5. MAKE INSPECTIONS IN THE BUILDING DURING THE OPPOSITE SEASON FROM THAT IN WHICH THE INITIAL ADJUSTMENTS WERE MADE AND AT THOSE TIMES MAKE ANY NECESSARY MODIFICATIONS TO THE INITIAL ADJUSTMENTS REQUIRED TO PRODUCE OPTIMUM OPERATION OF THE SYSTEMIC COMPONENTS, TO PRODUCE THE PROPER CONDITIONS IN EACH CONDITIONED SPACE.
6. DURING THE BALANCING, THE TEMPERATURE REGULATION SHALL BE ADJUSTED FOR PROPER RELATIONSHIP BETWEEN CONTROLLING INSTRUMENTS AND CALIBRATED BY THE CONTRACTOR.
7. BEFORE FINAL ACCEPTANCE IS MADE, FURNISH THE FOLLOWING DATA.
   a. A TABULATION OF THE SIMULTANEOUS TEMPERATURE OF ALL SPACES ON EACH SEPARATELY CONTROLLED ZONE, TOGETHER WITH THE OUTSIDE TEMPERATURE AT TIME OF MEASUREMENT. HOURLY FOR 8 HOURS ON A TYPICAL DESIGN DAY SELECTED BY THE ARCHITECT.
   b. A LISTING OF THE MEASURED AIR QUANTITIES AT EACH OUTLET CORRESPONDING TO THE TEMPERATURE TABULATION SPECIFIED ABOVE.
   c. AIR QUANTITIES AT EACH RETURN AND EXHAUST AIR HANDLING DEVICE.
   d. A TABULATION OF FULL LOAD AMP DRAW FOR EACH POWER CONSUMING DEVICE.
8. THE ABOVE DATA SHALL BE NEATLY ENTERED ON APPROPRIATE FORMS TOGETHER WITH ANY TYPED SUPPLEMENTS REQUIRED TO COMPLETELY DOCUMENT ALL RESULTS. WRITTEN EXPLANATIONS OF ANY ABNORMAL CONDITIONS SHALL BE INCLUDED. ALL THIS SHALL BE ASSEMBLED INTO A SUITABLE BROCHURE AND A TOTAL OF 4 COPIES SHALL BE PROVIDED.
9. WHEN OPPOSITE SEASON MODIFICATIONS ARE MADE, ADDITIONAL DATA SHEETS INDICATING NEW SETTINGS, READINGS, ETC., SHALL BE PREPARED AND SUBMITTED IN QUADRUPLICATE.

B. **INSTRUCTIONS:**
1. DURING THE TEST PERIODS INSTRUCT THE BUILDING OPERATING PERSONNEL IN THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT.
2. DELIVER TO THE OWNER 3 COMPLETE INSTRUCTION MANUALS COVERING THE MAINTENANCE AND OPERATION OF THE SYSTEM COMPONENTS. PROVIDE COMPLETE DATA ON ALL EQUIPMENT INCLUDING FOR EACH ITEM A PARTS LIST AND THE NAME AND ADDRESS OF THE VENDOR WHERE REPLACEMENT PARTS CAN BE PURCHASED.

END OF SECTION

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Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
-	07/29/2024	Issued For Construction

Mechanical Specifications

M-000

MECHANICAL SYMBOLS

AV	AUTOMATIC AIR VENT
MV	MANUAL AIR VENT
	P/T PLUG
	VENTURI FLOW METER
	AUTOMATIC FLOW CONTROL
	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	GLOBE VALVE
	GATE VALVE
	ANGLE GATE VALVE
P	PRESSURE REDUCING VALVE
	AUTOMATIC VALVE, 2-WAY
	AUTOMATIC VALVE, 3-WAY
	FLANGE
	UNION
	STRAINER
M	GAS METER
	ELECTRIC MOTOR
	CENTRIFUGAL FAN
	THERMOMETER
	EXPANSION VALVE
FS	FLOW SWITCH
PS	PRESSURE SWITCH
	PUMP

MECHANICAL PIPING LEGEND

CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CS	CONDENSATE WATER SUPPLY
CR	CONDENSATE WATER RETURN
CD	CONDENSATE DRAIN
R	REFRIGERANT LIQUID & SUCTION
	FLUID FLOW DIRECTION
	PIPE TURNED UP
	PIPE TURNED DOWN

DUCTWORK SYMBOLS

	MANUAL BALANCING DAMPER
	CEILING MOUNTED SUPPLY GRILLE
	CEILING MOUNTED RETURN GRILLE
	CEILING MOUNTED EXHAUST GRILLE
	WALL MOUNTED SUPPLY GRILLE
	WALL MOUNTED RETURN / EXHAUST GRILLE
FSD	FIRE / SMOKE DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
	LINED RETURN DUCT
	SUPPLY DUCT TURNED UP
	SUPPLY DUCT TURNED DOWN
	RETURN DUCT TURNED UP
	RETURN DUCT TURNED DOWN
	EXHAUST DUCT TURNED UP
	EXHAUST DUCT TURNED DOWN
	ROUND DUCT TURNED UP
	ROUND DUCT TURNED DOWN
T	THERMOSTAT
H	HUMIDISTAT
S	SENSOR
	FLEXIBLE CONNECTION
	FLEX DUCT
	CONNECT TO EXISTING
P.O.D	POINT OF DISCONNECT

MECHANICAL ABBREVIATIONS

A
A/C AIR CONDITIONING
AVG AVERAGE
AFF ABOVE FINISHED FLOOR

B
BOJ BOTTOM OF JOIST
BTUH BRITISH THERMAL UNIT PER HOUR
MBU BRITISH THERMAL UNIT DIVIDED BY 1,000

C
CFM CUBIC FEET PER MINUTE
CHR CHILLED WATER RETURN PIPING
CHS CHILLED WATER SUPPLY PIPING

D
DEG DEGREE
°F DEGREES FAHRENHEIT
DIA DIAMETER
ID DIAMETER, INSIDE
OD DIAMETER, OUTSIDE
DDC DIRECT DIGITAL CONTROLS
DB DRY BULB TEMPERATURE

E
EER ENERGY EFFICIENCY RATIO
EAT ENTERING AIR TEMPERATURE
EWT ENTERING WATER TEMPERATURE
EA EXHAUST AIR
ESP EXTERNAL STATIC PRESSURE

F
FT FEET
FPI FINS PER INCH
FD FIRE DAMPER
FSD FIRE/SMOKE DAMPER
FO FLAT OVAL

G
GAL GALLONS
GPH GALLONS PER HOUR
GPM GALLONS PER MINUTE
GBD GRAVITY BACKDRAFT DAMPER

H
HWP HEATING WATER PUMP
HWR HEATING WATER RETURN PIPING
HWS HEATING WATER SUPPLY PIPING
HP HORSEPOWER

I
IN INCHES
inHG INCHES OF MERCURY
inH2O INCHES OF WATER
IAQ INDOOR AIR QUALITY

J
NOT USED

K
kW KILOWATT

L
LAT LEAVING AIR TEMPERATURES
LWT LEAVING WATER TEMPERATURES

M
MBD MANUAL BALANCING DAMPER
MAT MIXED AIR TEMPERATURE

N
NC NORMALLY CLOSED
NO NORMALLY OPEN

O
OA OUTSIDE AIR
OAT OUTSIDE AIR TEMPERATURE

P
PH PHASE
LBS POUNDS
LBS/HR POUNDS PER HOUR
PSI POUNDS PER SQUARE INCH
PRV PRESSURE REDUCED VALVE

Q
NOT USED

R
RL REFRIGERANT LIQUID
RS REFRIGERANT SUCTION
RPZ REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY
RH RELATIVE HUMIDITY
RA RELIEF AIR
RPM REVOLUTIONS PER MINUTE

S
SEER SEASONAL ENERGY EFFICIENCY RATIO
SH SENSIBLE HEAT
SHR SENSIBLE HEAT RATIO
SD SMOKE DAMPER
SQ.FT. SQUARE FEET
SP STATIC PRESSURE

T
T&P TEMPERATURE AND PRESSURE VALVE
k THERMAL CONDUCTIVITY
R THERMAL RESISTANCE
TOJ TOP OF JOIST
TDH TOTAL DYNAMIC HEAD
TSP TOTAL STATIC PRESSURE

U
UF UNDERFLOOR
UG UNDERGROUND
U U-FACTOR, HEAT TRANSFER COEFFICIENT

V
VAV VARIABLE AIR VOLUME
VFD VARIABLE FREQUENCY DRIVE
VEL VELOCITY
V VOLTS

W
WB WET BULB TEMPERATURE

X
NOT USED

Y
NOT USED

Z
NOT USED

GENERAL NOTES

1. GENERAL NOTES ON THIS SHEET ARE APPLICABLE TO EACH MECHANICAL DRAWING OF THIS SET OF CONSTRUCTION DOCUMENTS. NOTES SPECIFIC TO INDIVIDUAL MECHANICAL DRAWINGS WILL BE SHOWN ON THE RESPECTIVE MECHANICAL DRAWING.
2. THE CONTRACTOR SHALL PROVIDE A COMPLETE HVAC SYSTEM TO INCLUDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL SYSTEM INCLUDING ALL NECESSARY APPURTENANCES CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT.
3. ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL CONFORM WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS.
4. THIS PROJECT SHALL CONFORM TO APPLICABLE ASHRAE, NFPA AND SMACNA STANDARDS AND OTHER REGULATORY BODIES HAVING JURISDICTION OVER THE CLASS OF WORK.
5. MATERIAL AND EQUIPMENT SHALL HAVE STAMPS OR SEALS OF AHRI, ASME, UL OR ASTM.
6. THE CONTRACTOR SHALL MAKE TESTS FOR ACCEPTANCE AND APPROVAL AS REQUIRED BY CODE AND THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES. REQUIRED TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER OF RECORD AND/OR OWNER UNLESS OTHERWISE WAIVED IN WRITING.
7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS AND SERVICES RELATED TO INSTALLATION OF THE WORK.
8. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER TRADES IN ORDER TO RESOLVE ANY CONFLICTS THAT MIGHT ARISE DUE TO THE LOCATION OF EQUIPMENT OR THE USE OF SPACE.
9. EQUIPMENT OF DIFFERENT ELECTRICAL CHARACTERISTICS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICE, CIRCUIT BREAKERS AND CONDUIT ARE APPROPRIATELY MODIFIED AT NO COST TO THE OWNER.
10. RUN ALL HORIZONTAL PIPING AND DUCTWORK ABOVE THE CEILING UNLESS OTHERWISE NOTED.
11. MAKE DUCT PENETRATIONS OF ALL WALLS WITH SHEET METAL DUCTS. FLEXIBLE DUCT PENETRATION OF WALLS ARE NOT ACCEPTABLE.
12. INSTALL TURNING VANES WHERE SHOWN ON PLANS.
13. DO NOT INSTALL EQUIPMENT, PIPING OR DUCTWORK OVER ANY ELECTRICAL EQUIPMENT OR ELECTRICAL SERVICE SPACE.
14. LAYOUT OF PIPING AND DUCTWORK IS DIAGRAMMATIC. RUN ALL EXPOSED PIPING AND DUCTWORK AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. ALLOW FOR RISES, DROPS AND OFFSETS AS REQUIRED.
15. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE AND REPAIR OR REPLACEMENT OF ELECTRICAL COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS, PIPING SHALL NOT INTERFERE WITH FILTER PULL.
16. MECHANICAL CONTRACTORS SHALL PROVIDE AUTOMATIC CONTROL DEVICES SUCH AS STARTERS, VARIABLE FREQUENCY DRIVES (VFD), TEMPERATURE SENSORS, RELAYS, PRESSURE SWITCHES THAT ARE ASSOCIATED WITH MECHANICAL EQUIPMENT AND ASSOCIATED CONTROL WIRING FROM CONTROL POWER LOCATION TO THE CONTROL DEVICE/ ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FROM POWER SOURCE TO DISCONNECT SWITCH, FROM DISCONNECT SWITCH TO STARTER OR VFD, AND FROM STARTER OR VFD TO THE EQUIPMENT.
17. FLASHING DETAILS FOR PIPES PENETRATING THE ROOF SHALL BE COORDINATED WITH ARCHITECTURE DETAILS.
18. LOCATE TEMPERATURE SENSORS AND CO2 SENSORS 48" ABOVE FINISHED FLOOR OR AS NOTED ON PLANS.
19. COORDINATE CURBS AND SIZE OF CURBS IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED.
20. CONTRACTOR IS TO PROVIDE AN ADJUSTABLE ROOF CURB OR TAPER AT CURB TO MATCH ROOF SLOPE FOR CURB MOUNTED EQUIPMENT. THE USE OF SHIMS TO LEVEL EQUIPMENT IS NOT ACCEPTABLE UNLESS THE CURB DIMENSIONS ARE SMALLER THAN 36"x36".
21. CONTRACTOR TO VERIFY ALL ACCESS PANEL LOCATIONS. NOT ALL ACCESS PANELS REQUIRED ARE SHOWN. REFER TO SPECIFICATIONS FOR ACCESS PANEL REQUIREMENTS.
22. CONTRACTOR SHALL INSTALL ALL PLUMBING VENTS AND EXHAUST AIR OUTLETS A MINIMUM OF 25'-0" AWAY (PER CODE) FROM ALL OUTSIDE AIR INTAKES, OPERABLE DOORS AND/ OR WINDOWS. CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC BY NATURE, FINAL MEASUREMENTS SHOULD BE MADE AT THE PROJECT SITE.
23. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

PROJECT DESIGN INFORMATION

HVAC DATA		
PROJECT LOCATION:		AMARILLO, TX
DESIGN CODE:		IMC - 2021/IECC - 2015
ELEVATION (FT):		3,595
HVAC DESIGN CONDITIONS		
	WINTER OUTDOOR (DB/WB):	10.8°F/6.5°F
	WINTER INDOOR (DB/WB):	70°F/62.0°F
	SUMMER OUTDOOR (DB/WB):	98.8°F/65.6°F
	SUMMER INDOOR (DB/WB):	75°F/62.5°F
	INDOOR RELATIVE HUMIDITY:	50%
	DEHUMDIFICATION OUTDOOR (DB/WB):	75.5°F/69.6°F
ELECTRICAL SERVICE:		460V/3PH
PLUMBING DATA		
DESIGN CODE		IPC - 2021/IFGC - 2021

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BSA GI Lab Renovation
Interior Updates

BSA HEALTH SYSTEM

CLIENT
BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
-	07/29/2024	Issued For Construction

Mechanical Symbols, Legends & Abbreviations

M-001

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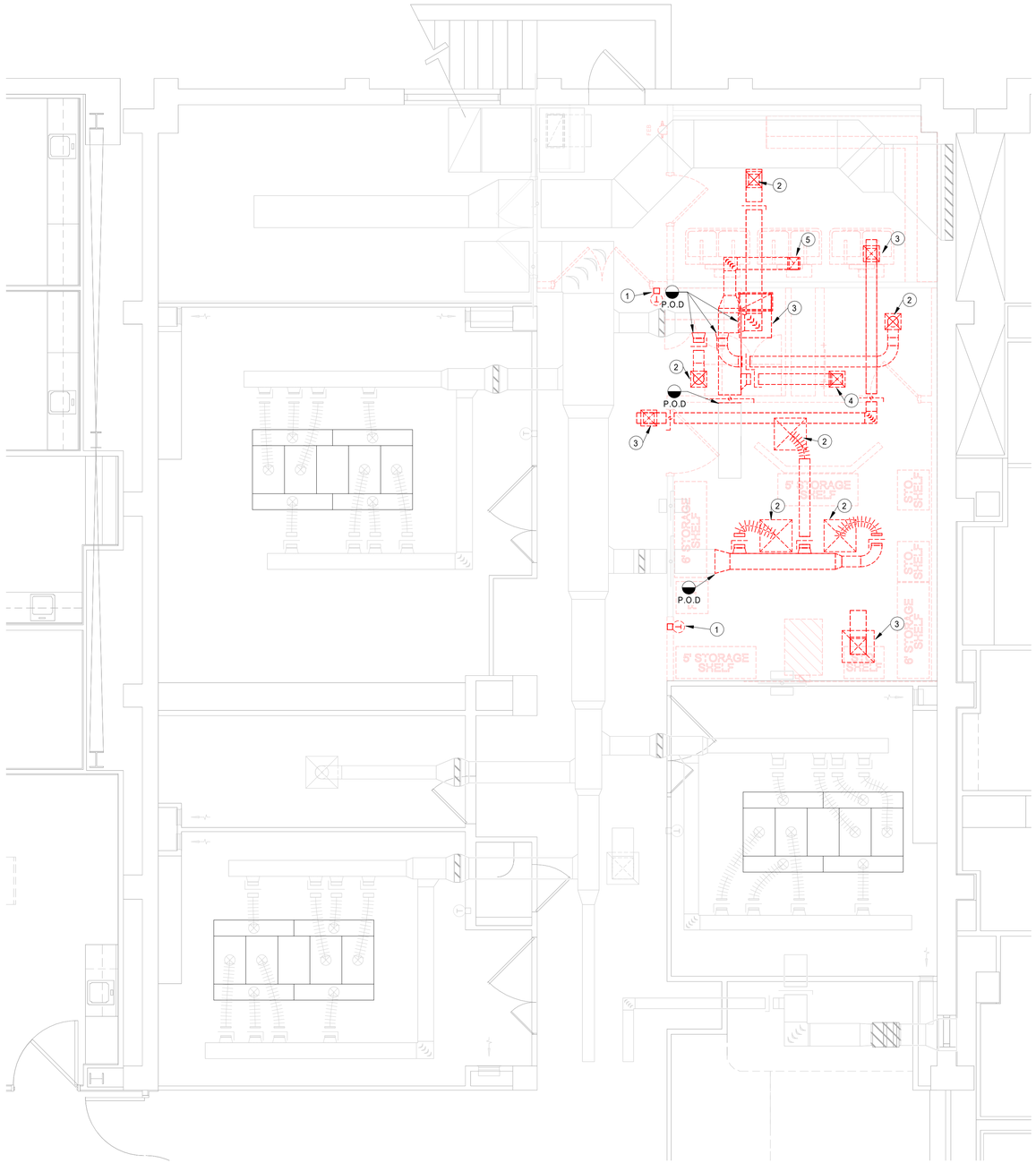
GENERAL NOTES

A. REFER TO GENERAL NOTES ON M-001.



KEY NOTES

AS INDICATED BY: (#)

1 RELOCATE EXISTING PNEUMATIC THERMOSTAT OR REPLACE WITH NEW PNEUMATIC THERMOSTAT.
2 REMOVE EXISTING SUPPLY AIR GRILLE AND ASSOCIATED DUCTWORK TO POINT OF DISCONNECT.
3 REMOVE EXISTING RETURN AIR GRILLE AND ASSOCIATED DUCTWORK.
4 REMOVE EXISTING EXHAUST AIR GRILLE AND ASSOCIATED DUCTWORK TO POINT OF DISCONNECT.
5 REMOVE EXISTING EXHAUST HOOD AND ASSOCIATED DUCTWORK TO POINT OF DISCONNECT.

A2 MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"

NORTH

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Interior Updates

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43007.24

KEY PLAN

#	DATE	DESCRIPTION
-	07/29/2024	Issued For Construction

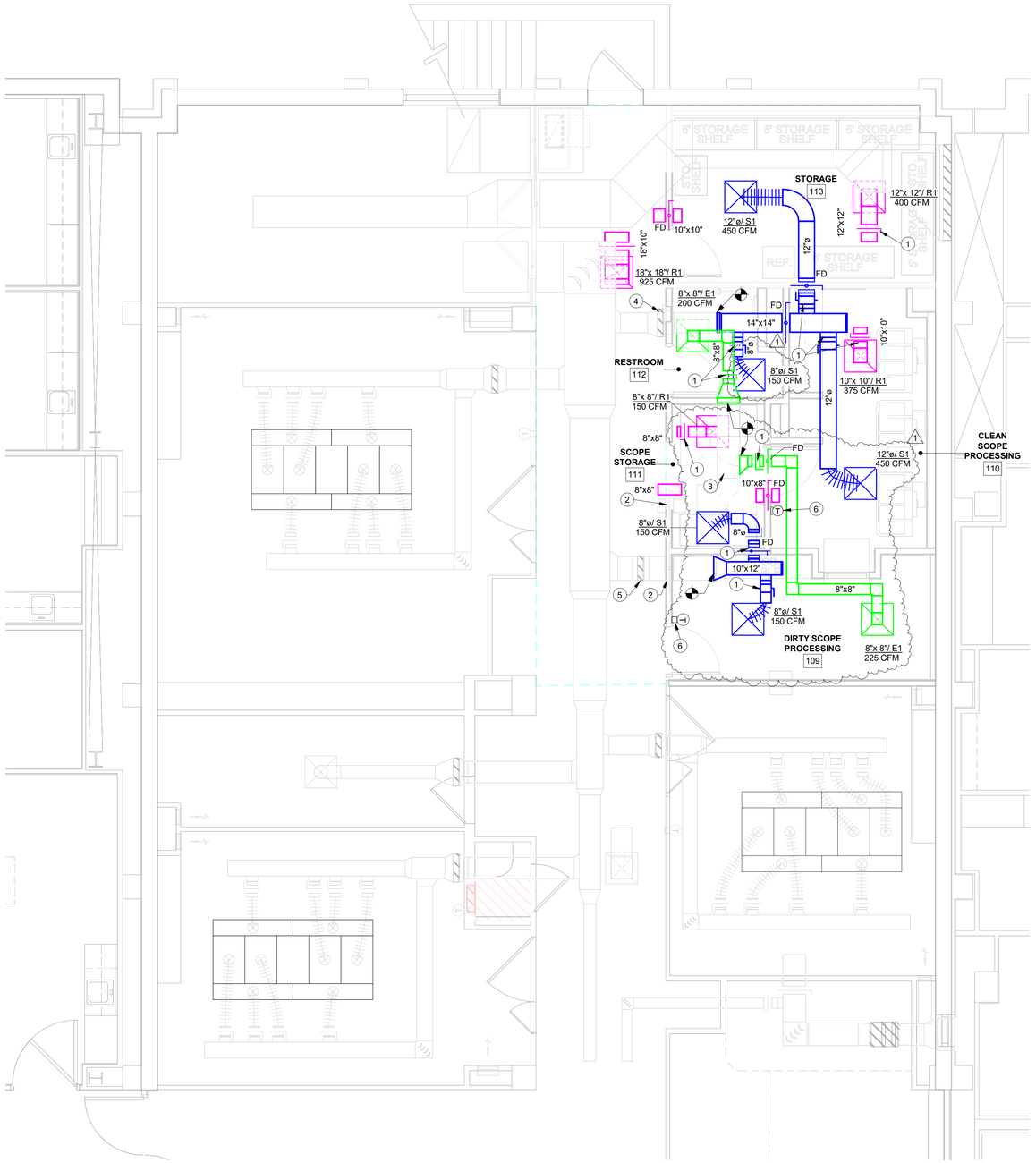
Mechanical Demolition Plan - First Floor

M-101

AIR DISTRIBUTION SCHEDULE

SYMBOL	SYSTEM TYPE	DESCRIPTION	INSTALLATION TYPE	MANUFACTURER	MODEL NO.
S1	SUPPLY	ALL STEEL, 24" x 24" NOMINAL FACE, FIXED AIR PATTERN, STEPPED WITH 4-CONES, SQUARE FACE AND ROUND NECK. SIZE NECK AS SHOWN ON DRAWINGS.	LAY-IN/SURFACE MOUNT	NAILOR	RNS
R1	RETURN	EGGCRATE RETURN GRILLE, 24"x 24" NOMINAL FACE, STEEL BORDER WITH ALUMINUM 1/2"x1/2"x1/2" CORE. SIZE NECK AS SHOWN ON DRAWINGS.	LAY-IN/SURFACE MOUNT	NAILOR	61EC
E1	EXHAUST	EGGCRATE EXHAUST GRILLE, 24"x 24" NOMINAL FACE, ALL ALUMINUM 1/2" x 1/2" x 1/2" CORE. SIZE NECK AS SHOWN ON DRAWINGS.	LAY-IN/SURFACE MOUNT	NAILOR	51EC

1. AIR DEVICES SCHEDULED TO BE MANUFACTURED BY NAILOR. PRICE, TITUS, AND RUSKIN ARE CONSIDERED EQUIVALENT MANUFACTURERS.
2. UNLESS SCHEDULED OTHERWISE, AIR DEVICES SHALL BE WHITE OR OFF-WHITE IN COLOR.
3. ALL JOISTS, CONDUITS, PIPING AND EQUIPMENT ABOVE OPEN RETURN DEVICES SHALL BE PAINTED BLACK FOR AN AREA OF 2 FEET ON ALL SIDES OF THE AIR DEVICE.
4. PROVIDE MANUAL BALANCING DAMPERS AT EACH SUPPLY AND EXHAUST AIR DUCT TAP, INSTALL MBD AT MAIN DUCT TAP.
5. PROVIDE INSULATING BLANKET ON BACK OF THE SUPPLY AND RETURN GRILLES.
6. CONTRACTOR TO PROVIDE MANUAL BALANCING DAMPER IN RETURN AIR BOOT DUCT TO OBTAIN PROPER ROOM PRESSURE BALANCE FOR EACH RESPECTIVE ROOM.



A2 MECHANICAL PLAN
1/4" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO GENERAL NOTES ON M-001.

KEY NOTES

AS INDICATED BY: (#)

1 FOR EACH MBD LOCATED ABOVE A NON-ACCESSIBLE CEILING OR MOUNT WHERE ACCESS FROM A LADDER IS NOT POSSIBLE, PROVIDE A YOUNGS REGULATOR "BOWDEN" CABLE RACK AND PINION REGULATOR CONTROLS. PROVIDE STAINLESS STEEL COVER PLATES OVER EACH CEILING PLATE AND PROVIDE OWNER WITH A MINIMUM OF FIVE CONTROLS WRENCHES FROM THE MANUFACTURER FOR THE DAMPER ADJUSTMENT.

2 EXISTING FIRE DAMPER TO BE LOCKED OPEN AS FIRE RATING FOR WALL HAS BEEN REMOVED.

3 CONTRACTOR TO FIELD VERIFY THAT EXISTING 17"x6" EXHAUST DUCTWORK IS STILL LOCATED IN THIS APPROXIMATE LOCATION ABOVE THE CEILING. EXHAUST DUCTWORK PREVIOUSLY SERVED REMVOED EXHAUST HOODS. SHOULD EXHAUST DUCTWORK NOT EXIST, CONTRACTOR TO SUBMIT A CCR WITH THE CLOSETS EXHAUST DUCTWORK LOCATIONS PROVIDED, OR AN ALTERNATE PATH FOR THE EXHAUST TO EXIT THE AREA.

4 EXISTING 21"X15" REHEAT COIL TO REMAIN.

5 EXISTING 18"X15" REHEAT COIL TO REMAIN.

6 RELOCATE EXISTING PNEUAMATIC THEREMOSTAT OR REPLACE THERMOSTAT IN NEW LOCATION AS SHOWN.

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Interior Updates

BSA HEALTH SYSTEM

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1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
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KEY PLAN

#	DATE	DESCRIPTION
1	09/02/2025	ADD-001
-	07/29/2024	Issued For Construction

Mechanical Plan - First Floor

M-111

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ELECTRICAL ABBREVIATIONS

#	
1	SINGLE PHASE
3	THREE PHASE
A	
AAP	ALARM ANNUNCIATOR PANEL
AC	ABOVE COUNTER ALTERNATING CURRENT
ACP	AUTOMATIC CONTROL PANEL
ADC	AUTOMATIC DOOR CLOSER
AF	AUDIO FREQUENCY
AFC	AUTOMATIC FREQUENCY CONTROL
AH	AMPHOUR
AIC	AMPERE INTERRUPTING CAPACITY
ALM	ALARM
AMP	AMPERE
AMPL	AMPLIFIER
ANN	ANNUNCIATOR
ANT	ANTENNA
APU	AUXILIARY POWER UNIT
ARMC	ARMORED CABLE
ASC	AMPS SHORT CIRCUIT
ASWG	AMERICAN STEEL WIRE GAUGE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO XFMR	AUTO TRANSFORMER
AUX	AUXILIARY
AV	AUDIO VISUAL
B	
BAS	BUILDING AUTOMATION SYSTEM
BAT	BATTERY
BB XFMR	BUCK-BOOST TRANSFORMER
BHP	BRAKE HORSEPOWER
BKBD	BACKBOARD
BLST	BALLAST
BP	CANDLE POWER
C	
C	CONDUIT
CC	CONTROL CONTRACTOR
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CG	COMMON GROUND
CKT	CIRCUIT
CLF	CURRENT LIMITING FUSE
COAX	COAXIAL CABLE
COMM	COMMUNICATIONS
COORD	COORDINATE
COV PL	COVER PLATE
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CRI	COLOR RENDERING INDEX
CS	CONTROL SWITCH
CT	CURRENT TRANSFORMER
CTRL	CONTROL
CTV	CABLE TELEVISION
CU	COEFFICIENT OF UTILIZATION COPPER
CUR	CURRENT
D	
dB	DECIBEL
DC	DIRECT CURRENT
DEMO	DEMOLITION
DET	DETAIL
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DS	DISCONNECT SWITCH
E	
EA	EACH
ELEC	ELECTRIC
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
ENCL	ENCLOSURE
ESMT	EASEMENT
F	
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLUOR	FLUORESCENT
FLUOR FIXT	FLUORESCENT FIXTURE
FLUOR LGHT	FLUORESCENT LIGHT
FMC	FLEXIBLE METALLIC CONDUIT
FREQ	FREQUENCY
G	
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
H	
HD	HEAVY DUTY
HO	HIGH OUTPUT
HP	HORSEPOWER
HV	HIGH VOLTAGE
I	
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
IMC	INTERMEDIATE METAL CONDUIT
J	
NOT USED	
K	
kW	KILOWATT
kWH	KILOWATT HOUR
kV	KILOVOLT
kVA	KILOVOLT AMP
L	
LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
LM	LUMEN
LPW	LUMENS PER WATT
LV	LOW VOLTAGE
M	
MCA	MAIN CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
N	
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NL	NIGHT LIGHT
NO	NORMALLY OPEN
O	
NOT USED	
P	
PA	POWER AMPLIFIER
PB	PANELBOARD
PE	PHOTOELECTRIC
PEC	PHOTOELECTRIC CELL
PF	POWER FACTOR
PVC	POLY VINYL CHLORIDE
PWR	POWER
Q	
NOT USED	
R	
RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RNC	RIGID NONMETALLIC CONDUIT
S	
SCH	SCHEDULE
SE	SERVICE ENTRANCE
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
SWBD	SWITCHBOARD
T	
TSP	TWISTED SHIELDED PAIR
U	
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	
V	VOLT(S) VOLTAGE
VA	VOLT AMPERE
VD	VOLTAGE DROP
VFD	VARIABLE FREQUENCY DRIVE
VHO	VERY HIGH OUTPUT
W	
WP	WEATHERPROOF
WW	WIREWAY
X	
NOT USED	
Y	
NOT USED	
Z	
NOT USED	

ELECTRICAL MISC SYMBOLS

$	WALL SWITCH, REFER TO LIGHTING CONTROL MATRIX SCHEDULE FOR ALL CONTROL REQUIREMENTS.
	125V, 20A, 2P, 3W. GROUNDING TYPE DUPLEX RECEPTACLE. "GFCI" DENOTES GROUND FAULT INTERRUPTER, "WP" DENOTES WEATHERPROOF COVER, "AC" DENOTES ABOVE COUNTER MOUNTING, "USB" DENOTES COMBINATION USB DEVICE.
	125V, 20A, 2P, 3W. GROUNDING TYPE EMERGENCY DUPLEX RECEPTACLE. "GFCI" DENOTES GROUND FAULT INTERRUPTER, "WP" DENOTES WEATHERPROOF COVER, "AC" DENOTES ABOVE COUNTER MOUNTING.
	DISCONNECT. AMPERAGE, POLES, AND FUSING AS NOTED.
	CONDUCTORS IN CONDUIT. MINIMUM NUMBER IS (2) #12 AWG + #12 GND. PROVIDE NUMBER OF CONDUCTORS AS REQUIRED FOR SWITCHING INDICATED AND CONTINUING CIRCUITS.
	HOMERUN TO PANELBOARD. REFER TO SPECIFICATIONS FOR LIMITING NUMBER OF CONDUCTORS PER HOMERUN.
	EXISTING SURFACE MOUNTED SINGLE SECTION PANELBOARD. LABEL INDICATES PANEL NAME. REFER TO PANEL SCHEDULE AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.
	EXISTING RECESSED MOUNTED SINGLE SECTION PANELBOARD. LABEL INDICATES PANEL NAME. REFER TO PANEL SCHEDULE AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.
▽	DATA OUTLET.

ELECTRICAL LIGHTING SYMBOLS

	2'x4' RECESSED LIGHT FIXTURE. UPPER CASE INDICATES TYPE IN SCHEDULE. LOWER CASE INDICATES SWITCH.
	2'x4' RECESSED LIGHT FIXTURE. DIAGONAL MARKING INDICATES EGRESS FIXTURE CONNECTED TO EMERGENCY POWER SUPPLY. UPPER CASE INDICATES TYPE IN SCHEDULE. LOWER CASE INDICATES SWITCH.
	2'x2' RECESSED LIGHT FIXTURE. UPPER CASE INDICATES TYPE IN SCHEDULE. LOWER CASE INDICATES SWITCH.
	2'x2' RECESSED LIGHT FIXTURE. DIAGONAL MARKING INDICATES EGRESS FIXTURE CONNECTED TO EMERGENCY POWER SUPPLY. UPPER CASE INDICATES TYPE IN SCHEDULE. LOWER CASE INDICATES SWITCH.
	RECESSED COMPACT FIXTURE. UPPER CASE INDICATES TYPE IN SCHEDULE. LOWER CASE INDICATES SWITCH.
	RECESSED COMPACT FIXTURE. DIAGONAL MARKING INDICATES EGRESS FIXTURE CONNECTED TO EMERGENCY POWER SUPPLY. UPPER CASE INDICATES TYPE IN SCHEDULE. LOWER CASE INDICATES SWITCH.
	EXIT SIGN AS SCHEDULED. CONNECTED TO EMERGENCY LIGHTING POWER SUPPLY. ARROWS INDICATE DIRECTIONAL ARROWS. PROVIDE SINGLE OR DOUBLE FACE AS REQUIRED OR INDICATED. UPPER CASE INDICATES TYPE IN SCHEDULE. "WG" INDICATES WIRE GUARD.

FIRE ALARM SYMBOLS

	ADDRESSABLE FIRE ALARM PULL STATION.
	FIRE ALARM STROBE UNIT DEVICE. "WG" INDICATES WIRE GUARD.
	FIRE ALARM COMBINATION SPEAKER/STROBE UNIT DEVICE. "WG" INDICATES WIRE GUARD.

LIGHTING CONTROL SEQUENCE MATRIX

DESIGNATION	TYPICAL SPACES	DIMMING	NETWORKED	OCCUPANCY (AUTO ON)	OCCUPANCY (VACANCY)	STAND ALONE	TIME CLOCK	WIRELESS	DESCRIPTION OF LIGHTING CONTROL DEVICES WITHIN SPACE
D	•WORK ROOMS	Yes	No	No	Yes	Yes	No	No	•WALL STATION WITH ON/OFF AND 0-10V DIMMING CAPABILITIES. PROVIDE CONNECTION FOR CONTROL OF LIGHTING THROUGH MULTIPLE SWITCH LOCATIONS. •CEILING MOUNTED OCCUPANCY (VACANCY) SENSOR SHALL TURN ALL LUMINAIRES OFF AFTER TIMEOUT (20 MIN.) EXPIRES.
I/O	•CORRIDOR	No	No	Yes	No	Yes	Yes	No	•ON/OFF WALL SWITCH, PROVIDE CONNECTIONS REQUIRED FOR CONTROL OF LIGHTING THROUGH MULTIPLE SWITCH LOCATIONS. •CEILING MOUNTED OCCUPANCY (AUTO "ON") SENSOR SHALL TURN ALL LUMINAIRES OFF AFTER TIMEOUT (20 MIN.) EXPIRES. SHALL AUTOMATICALLY TURN ALL LUMINARES ON TO 100% UPON DETECTION OF MAJOR OR MINOR MOTION. •THIS AREA WILL BE PROGRAMMED WITH TIME CONTROL TO ALLOW FIXTURES TO STAY ON DURING OCCUPIED TIMES (COORDINATE OCCUPIED TIMES AND PROGRAMMING WITH OWNER). LIGHT SWITCH SHALL WLLOW FOR OVERRIDE OF OCCUPANCY SENSORS, PHOTOCELLS, AND TIME PROGRAM.
OS	•SMALL RESTROOMS •SMALL STORAGE ROOMS	No	No	No	Yes	Yes	No	No	•ON/OFF WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR. INTEGRAL OCCUPANCY SENSOR SHALL TURN ALL LUMINAIRES OFF AFTER (20 MIN.) EXPIRES. •(NETWORK CONTROLS NOT REQUIRED. STAND-ALONE CONTROLS ONLY FOR THIS SPACE.)

NOTES:

A. REFER TO PLANS FOR LIGHTING DEVICE LOCATIONS AND OTHER INFORMATION.
B. SYMBOLS PROVIDED IN EACH SPACE (INDICATED IN THE LIGHTING CONTROLS SEQUENCE MATRIX SCHEDULE) ARE INTENDED TO DENOTE THE TYPES OF CONTROLS REQUIRED FOR EACH ASSOCIATED SPACES. THE SWITCH SYSMBOLS DENOTE REQUIRED LOCATIONS FOR THE CONTROL DEVICES IN EACH ASSOCIATED SPACE.
C. PROVIDE NUMBER OF RELAY PACKS, DIMMING RELAY PACKS, OCCUPANCY SENSORS AND PHOTOCELLS FOR COMPLETE AND PROPER OPERATION OF THE LIGHTING SYSTEM.

LIGHTING FIXTURE SCHEDULE

TYPE	ELECTRICAL DATA	MANUFACTURER	MODEL	LAMP	DESCRIPTION
A	277 V/1-22 VA	LITHONIA	2SRTL-G-L48-3000LM-OAW-AFL-MVOLT-EZ1-40K-80CRI-DWAM	LED	2X4 ANTIMICROBIAL LED TROFFER WITH 3000 LUMENS AND 0-10V DIMMING DOWN TO 1%.
AE	277 V/1-22 VA	LITHONIA	2SRTL-G-L48-3000LM-OAW-AFL-MVOLT-EZ1-40K-80CRI-E10WLCP-DWAM	LED	SAME AS TYPE A EXCEPT WITH EMERGENCY BATERY PACK.
B	277 V/1-24 VA	LITHONIA	2SRTL-G-L24-3000LM-OAW-AFL-MVOLT-EZ1-40K-80CRI-DWAM	LED	2X2 ANTIMICROBIAL LED TROFFER WITH 3000 LUMENS AND 0-10V DIMMING DOWN TO 1%.
B2	277 V/1-18 VA	LITHONIA	2GTL-2-20L-EZ1-LP840	LED	2X4 LED TROFFER WITH 2000 LUMENS AND 0-10V DIMMING DOWN TO 1%.
BE	277 V/1-24 VA	LITHONIA	2SRTL-G-L24-3000LM-OAW-AFL-MVOLT-EZ1-40K-80CRI-IE10WLCP-DWAM	LED	SAME AS TYPE B EXCEPT WITH EMERGENCY BATTERY PACK.
C	277 V/1-18 VA	LITHONIA	LDN6-40/15-LO6AR-LSS-TRW-MVOLT-GZ1	LED	RECESSED CAN LIGHT WITH 1500 LUMENS AND DIMMING DOWN TO 1%
C2	277 V/1-6 VA	LITHONIA	LDN6-40/05-LO6AR-LSS-TRW-MVOLT-GZ1	LED	RECESSED CAN LIGHT WITH 500 LUMENS AND DIMMING DOWN TO 1%
X	277 V/1-7 VA	LITHONIA	LQC-R-ELN		EXIT SIGN WITH BRUSHED ALUMINUM, WITH RED LETTERING AND 120/277 NICKEL CADMIUM BATTERY PACK

ELECTRICAL SPECIFICATIONS

CODE COMPLIANCE/WORKMANSHIP
1. CONTRACTOR SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES AND ACCEPTED GOOD PRACTICE.
2. ALL WORK SHALL BE PERFORMED BY LICENSED AND QUALIFIED PERSONNEL.

EXISTING CONDITIONS
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. BY SUBMITTING BID, CONTRACTOR STATES THAT HE HAS EXAMINED ALL EXISTING CONDITIONS. IF CONTRACTOR ENCOUNTERS EXISTING CONDITIONS WHICH NEED CLARIFICATION, CONTACT ENGINEER FOR RESOLUTION OR CLARIFICATION.

PERMITS AND FEES
1. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES AND CHARGES REQUIRED (INCLUDING UTILITY COMPANY CHARGES).

GUARANTEE AND WARRANTIES
1. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL HAVE ONE (1) YEAR WRITTEN GUARANTEE FOR ALL MATERIALS AND WORKMANSHIP.

MATERIALS
1. ALL MATERIALS SHALL BE NEW AND SPECIFICATION GRADE.

OWNERS MANUAL
1. AT COMPLETION OF PROJECT, CONTRACTOR SHALL DELIVER TO OWNER ALL DOCUMENTS (INCLUDING BUILDING PERMITS, OPERATION AND MAINTENANCE MANUALS, WARRANTY ETC.).

CONDUIT
1. ALL INTERIOR CONDUIT SHALL BE EMT. ALL EXTERIOR AND ABOVE GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL. ALL UNDERGROUND SERVICE ENTRANCE CONDUITSHALL BE PVC-COATED STEEL OR CONCRETE ENCASED SCHEDULE 40 PVC. MINIMUM SIZE OF CONDUIT SHALL BE 3/4". ALL CONDUIT SHALL BE ROUTED PERPENDICULAR TO BUILDING LINES WHERE EXPOSED TO VIEW.

WIRE
1. ALL WIRE SHALL BE THHN/THWN COPPER UNLESS OTHERWISE INDICATED ON THE DRAWINGS. MINIMUM SIZE OF WIRE SHALL BE #12. FOR 20A CIRCUITS LONGER THAN 100', MINIMUM WIRE SIZE SHALL BE #10 AWG.

SWITCHES
1. ALL SWITCHES SHALL BE SPECIFICATION GRADE (HUBBELL 1221 OR APPROVED EQUAL). COLOR OF ALL SWITCHES AND COVERPLATES SHALL BE WHITE. MOUNTING HEIGHT OF ALL SWITCHES SHALL COMPLY WITH A.D.A. REQUIREMENTS.

RECEPTACLES
1. ALL RECEPTACLES SHALL BE HOSPITAL SPECIFICATION GRADE (HUBBELL 8200HB OR APPROVED EQUAL). COLOR OF ALL RECEPTACLES AND COVERPLATES SHALL BE WHITE FOR NORMAL CIRCUIT AND RED FOR EMERGENCY CIRCUITS. MOUNTING HEIGHT OF RECEPTACLES SHALL COMPLY WITH A.D.A. REQUIREMENTS UNLESS SPECIFIC OR SPECIAL MOUNTING HEIGHT IS SHOWN ON DRAWINGS OR REQUIRED BY EQUIPMENT.

FIRE ALARM
1. ALL FIRE ALARM WORK SHALL BE INSTALLED BY A LICENSED FIRE ALARM INSTALLER IN THE STATE OF TEXAS. IT SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO COORDINATE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE FOR ALL NECESSARY SUBMITTALS, EQUIPMENT, AND PERMITING AS REQUIRED. PROVIDE 120V POWER FOR ALL FIRE ALARM COMPONENTS.

LIGHTING FIXTURES
1. LIGHTING FIXTURES SHALL BE AS SCHEDULED ON THE DRAWINGS. FIXTURES SHALL BE COMPLETE WITH ALL LAMPS.
2. REFER TO THE DRAWINGS FOR MOUNTING RESTRICTIONS.

SUBMITTALS AND SUBSTITUTIONS
1. CONTRACTOR SHALL FURNISH SUBMITTAL DATA TO ENGINEER FOR APPROVAL ON ALL FIXTURES AND EQUIPMENT PRIOR TO ORDERING ANY ITEMS. CONTRACTOR MAY OFFER SUBSTITUTIONS ON ITEMS FOR APPROVAL BY ENGINEER. SUBSTITUTIONS MUST BE EQUAL IN ALL RESPECTS TO ITEMS SCHEDULED OR SPECIFIED.

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Interior Updates

BSA HEALTH SYSTEM

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BSA Health System

1600 Wallace Blvd, Amarillo, TX 79106

PROJECT NO.
43007.24

KEY PLAN

#	DATE	DESCRIPTION
-	07/29/2024	ISSUED FOR CONSTRUCTION

Electrical Symbols, Legends & Abbreviations

E-001

KEY NOTES

AS INDICATED BY: (#)

1. EXISTING 120/208V, 3Φ, 4W CRITICAL BRANCH PANEL ESDA.
2. EXISTING 120/208V, 3Φ, 4W NORMAL BRANCH PANEL B1C.

1 Electrical Plan - Overall
3/16" = 1'-0"

0 1' 2' 4' 8' 12'

NORTH

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1	09/02/2025	ADD-001
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Electrical Plan - Overall

E-100

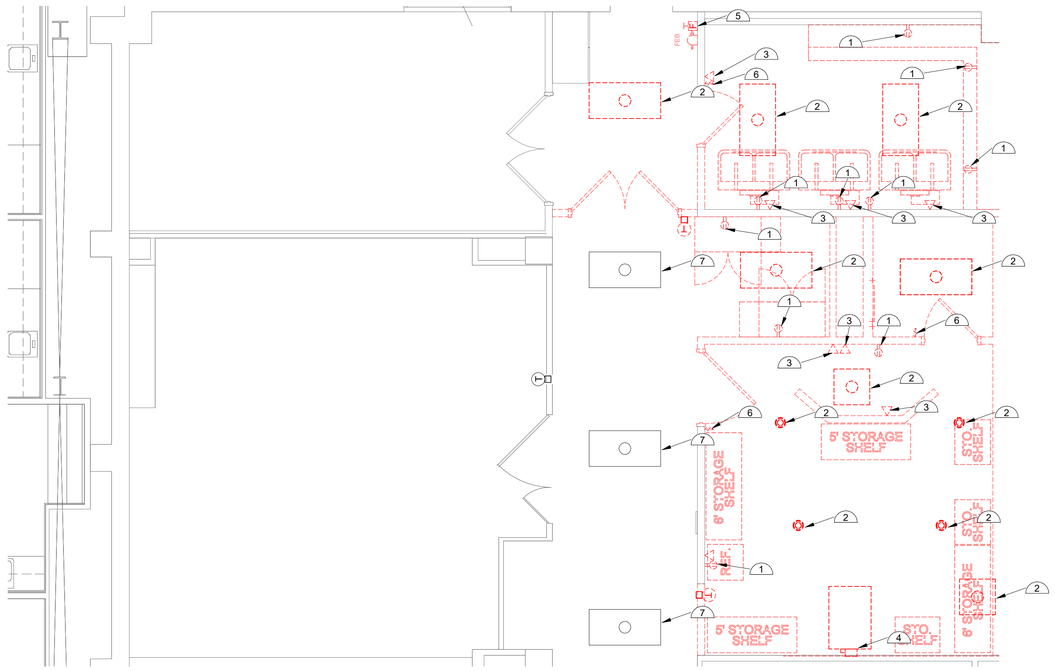
GENERAL NOTES

A. AS PART OF THE REQUIREMENTS OF THE CONTRACT, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE SCOPE AND MAGNITUDE OF THIS DEMOLITION WORK.
B. ALL DOWNSTREAM DEVICES NOT BEING REMOVED AS PART OF THIS CONTRACT SHALL REMAIN ACTIVE. THIS INCLUDES BUT IS NOT LIMITED TO RECEPTACLES, LIGHTS, DATA, FIRE ALARM, SECURITY AND TELEPHONE.
C. CONTRACTOR SHALL REMOVE FLOOR BOXES, OUTLETS AND ASSOCIATED WIRING. CONTRACTOR SHALL FILL IN FLOOR BOX OPENINGS WITH GROUT. REFER TO ARCHITECTURAL FOR GROUTING MATERIAL. CONTRACTOR SHALL REMOVE RECEPTACLES/OUTLETS, BACK BOXES, CONDUIT AND ALL ASSOCIATED WIRING BACK TO PANEL. ON EXISTING WALLS TO REMAIN, EXISTING RECEPTACLES AND WIRING SHALL BE REMOVED.
D. CONTRACTOR SHALL REMOVE ALL ABANDONED DEVICES, CONDUIT AND ALL ASSOCIATED WIRING ABOVE CEILING.

DEMOLITION NOTES

REMOVE EXISTING CONSTRUCTION AS INDICATED BY: (#)

1. PROVIDE FOR THE COMPLETE REMOVAL OF EXISTING RECEPTACLE, CONDUIT, WIRING, ETC. BACK TO SOURCE.
2. PROVIDE FOR THE REMOVAL OF EXISTING LIGHT FIXTURE. LIGHTING BRANCH CIRCUIT SHALL REMAIN FOR RE-USE.
3. PROVIDE FOR THE REMOVAL OF EXISTING DATA DEVICE, CONDUIT, CABLING, ETC. BACK TO SOURCE.
4. PROVIDE FOR THE REMOVAL OF EXISTING ENCLOSED CIRCUIT BREAKER SERVING EXISTING X-RAY MACHINE BACK TO SOURCE.
5. EXISTING FIRE ALARM PULL STATION SHALL BE REMOVED AND RE-INSTALLED IN NEW WALL.
6. EXISTING LIGHT SWITCH SHALL BE COMPLETELY REMOVED.
7. EXISTING LIGHTS SHALL REMAIN FOR RE-USE.



1 Power Plan
1/4" = 1'-0"

0 2' 4' 8'

NORTH

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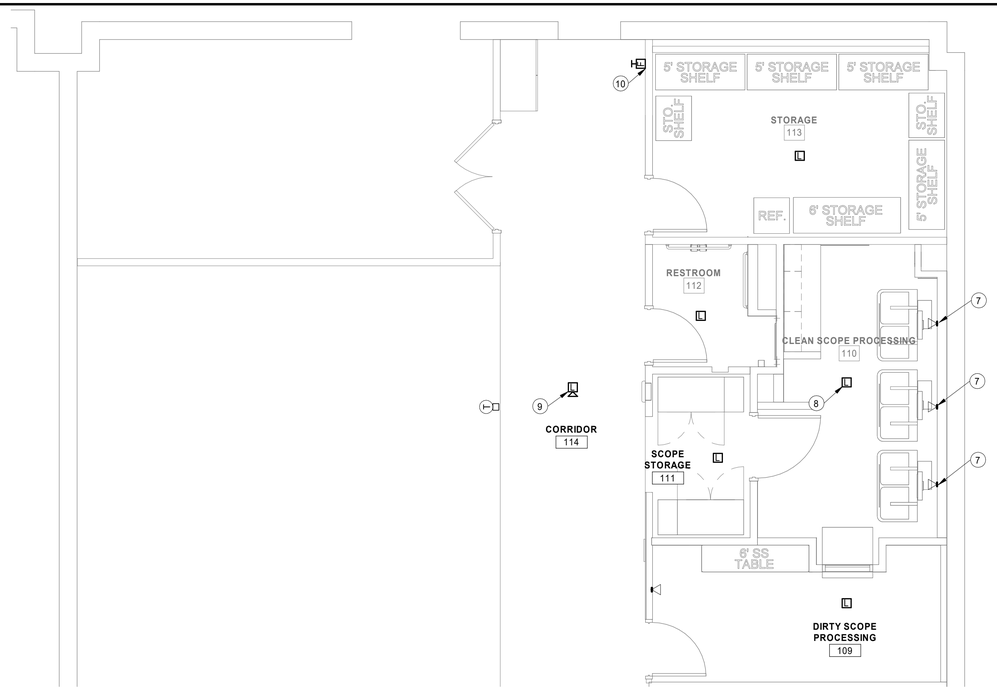
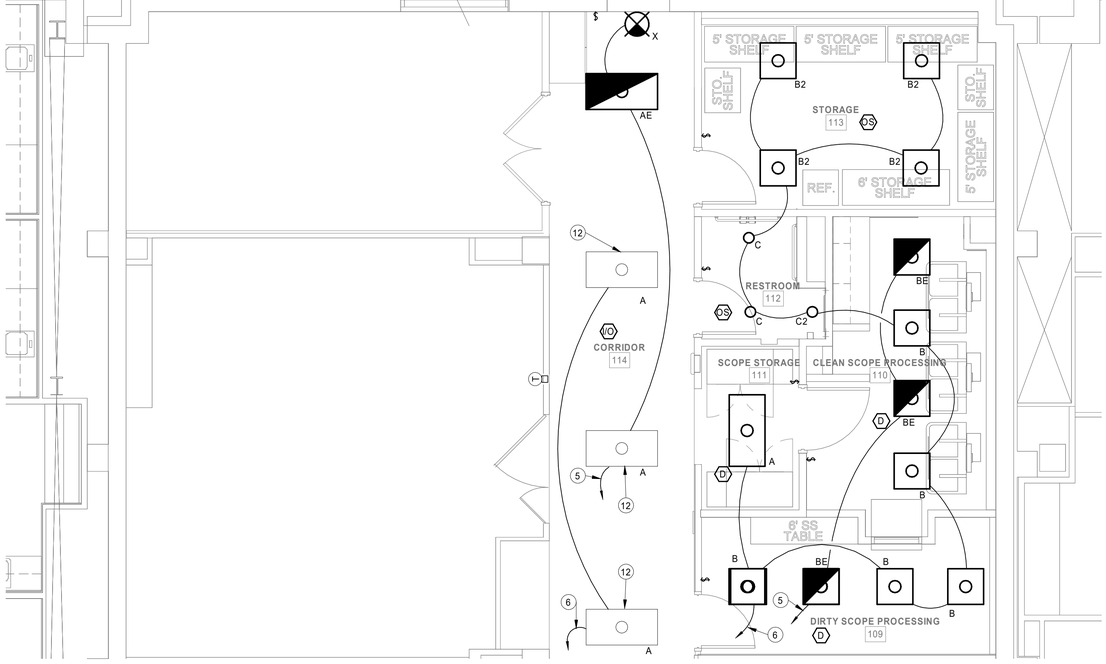
Electrical Demolition Plan - GI Lab Renovation

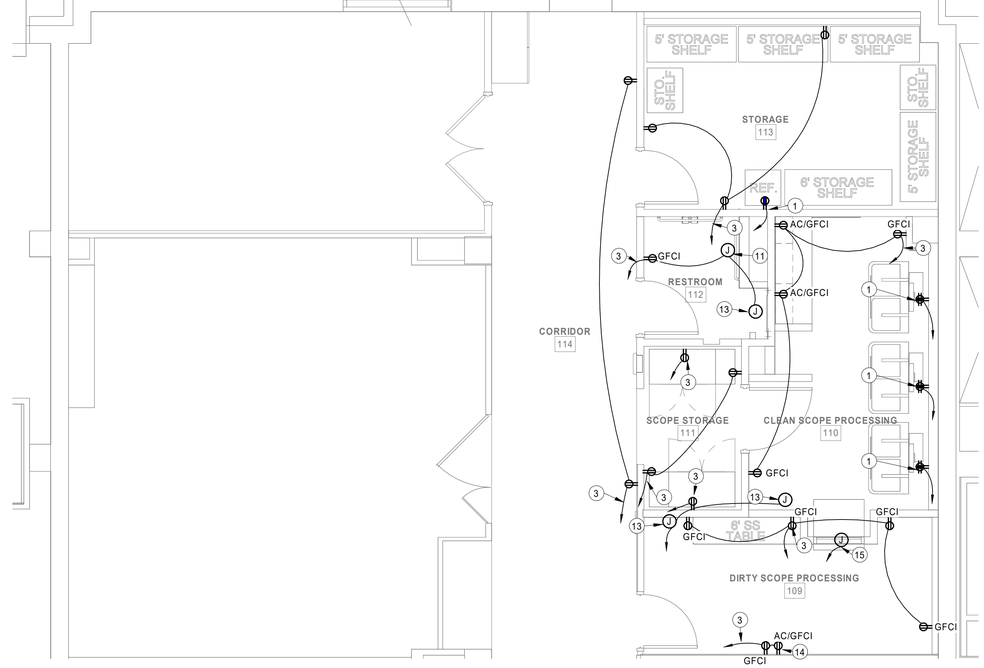
E-101



3 Communications Plan
1/4" = 1'-0"



1 Lighting Plan
1/4" = 1'-0"



2 Power Plan
1/4" = 1'-0"

KEY NOTES

AS INDICATED BY: (#)

1. PROVIDE A NEW RECEPTACLE FOR EXISTING RELOCATED SANITIZER. EXTEND AND CONNECT TO EXISTING CRITICAL PANEL "ESDA" AND PROVIDE A NEW 20A/1P GFI BREAKER IN PANEL.
2. PROVIDE A NEW RECEPTACLE FOR EXISTING RELOCATED SCOPE STORAGE CABINETS. EXTEND AND CONNECT TO EXISTING CRITICAL PANEL "B1C" AND PROVIDE A NEW 20A/1P BREAKER IN PANEL.
3. EXTEND AND CONNECT CIRCUIT TO EXISTING NORMAL PANEL "B1C"
4. EXTEND AND CONNECT TO EXISTING LIFE SAFETY BRANCH CIRCUIT SERVING THIS AREA. MODIFY EXISTING BRANCH LIGHTING CIRCUITS (WIRING AND CONDUIT) AS REQUIRED TO ACCOMMODATE NEW LIGHTING LAYOUT AND CONTROLS.
5. EXTEND AND CONNECT TO EXISTING CRITICAL LIGHTING BRANCH CIRCUIT SERVING THIS AREA. MODIFY EXISTING BRANCH LIGHTING CIRCUITS (WIRING AND CONDUIT) AS REQUIRED TO ACCOMMODATE NEW LIGHTING LAYOUT AND CONTROLS.
6. EXTEND AND CONNECT TO EXISTING NORMAL LIGHTING BRANCH CIRCUIT SERVING THIS AREA. MODIFY EXISTING BRANCH LIGHTING CIRCUITS (WIRING AND CONDUIT) AS REQUIRED TO ACCOMMODATE NEW LIGHTING LAYOUT AND CONTROLS.
7. DATA OUTLET LOCATION WITH BACK BOX AND COVER PLATE. PROVIDE A 1" CONDUIT TO AN ACCESSIBLE LOCATION ABOVE CEILING. CABLING SHALL BE PROVIDED BY OWNER.
8. NEW FIRE ALARM VISUAL DEVICE MOUNTED ON CEILING. EXTEND AND CONNECT DEVICE TO NEAREST N.A.C IN AREA.
9. NEW FIRE ALARM AUDIO/VISUAL DEVICE MOUNTED ON CEILING. EXTEND AND CONNECT DEVICE TO NEAREST N.A.C CIRCUIT IN AREA.
10. EXISTING FIRE ALARM PULL STATION MOUNTED ON NEW WALL.
11. PROVIDE 120V POWER FOR HARDWIRED FLUSH VALVE. COORDINATE EXACT LOCATION OF FLUSH VALVE PRIOR TO INSTALL.
12. EXISTING LIGHT FIXTURE.
13. PROVIDE 120V CIRCUIT FOR AUTOMATIC FAUCET COORDINTATE FINAL LOCATION OF SINK WITH PLUMBING PLANS PRIOR TO WORK. REFER TO HARWARE MANUFACUTRER FOR MORE INFORMATION. PROVIDE A GFI BREAKER IN PANEL.
14. MOUNT RECEPTACLE AT COUNTER TOP LEVEL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCAION PRIOR TO ROUGH IN.
15. PROVIDE 120V CIRCUIT FOR AUTOMATED PASS THROUGH WINDOW TYPE PTWAENDO2100 - STERIS AND ROUTE (2) #12 AWG + #12GND IN 3/4" CONDUIT TO EXITING PANEL "B1C" REFER TO MANUFACTURER FOR MORE INFORMATION PRIOR TO WORK.

0 2' 4' 8'

NORTH

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1	09/02/2025	ADD-001
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Electrical Plan - GI Lab Renovation

E-111

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