

MUNICIPALITY OF ANCHORAGE FIRE STATION 6 OFFICE RENOVATION

ANCHORAGE, ALASKA

OWNER

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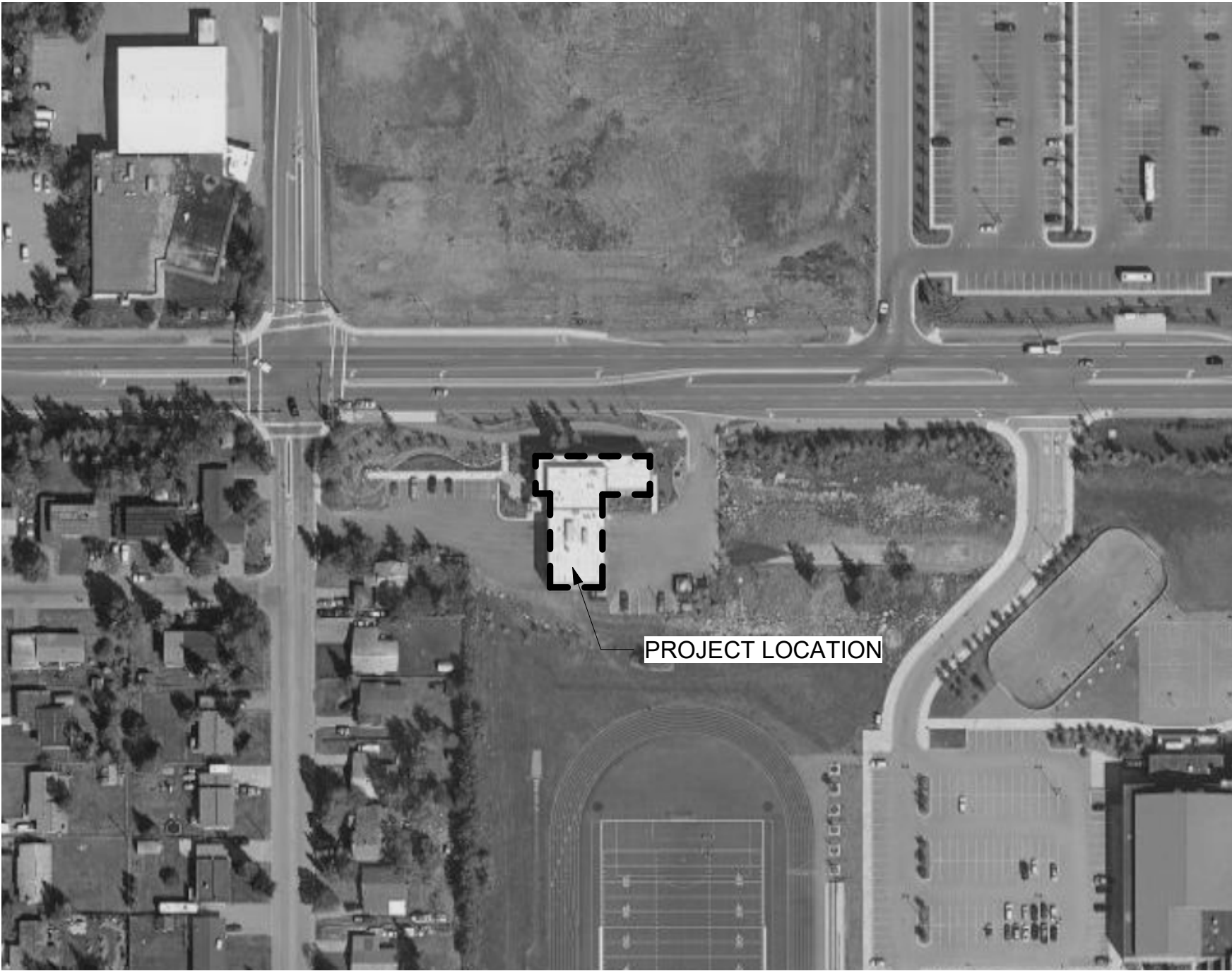
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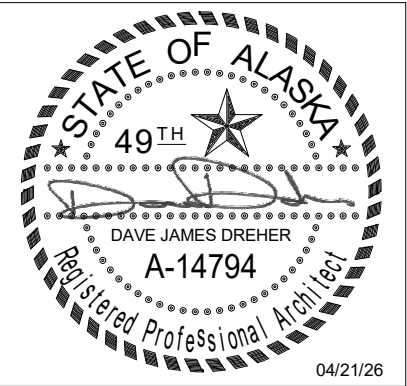


VICINITY MAP



PROJECT DESCRIPTION

WORK INCLUDES RECONFIGURING AN EXISTING STORAGE ROOM WITHIN THE FIRE STATION. THE SPACE WILL BE DIVIDED TO CREATE A NEW OFFICE WHILE RETAINING A PORTION OF THE ROOM FOR CONTINUED STORAGE USE.

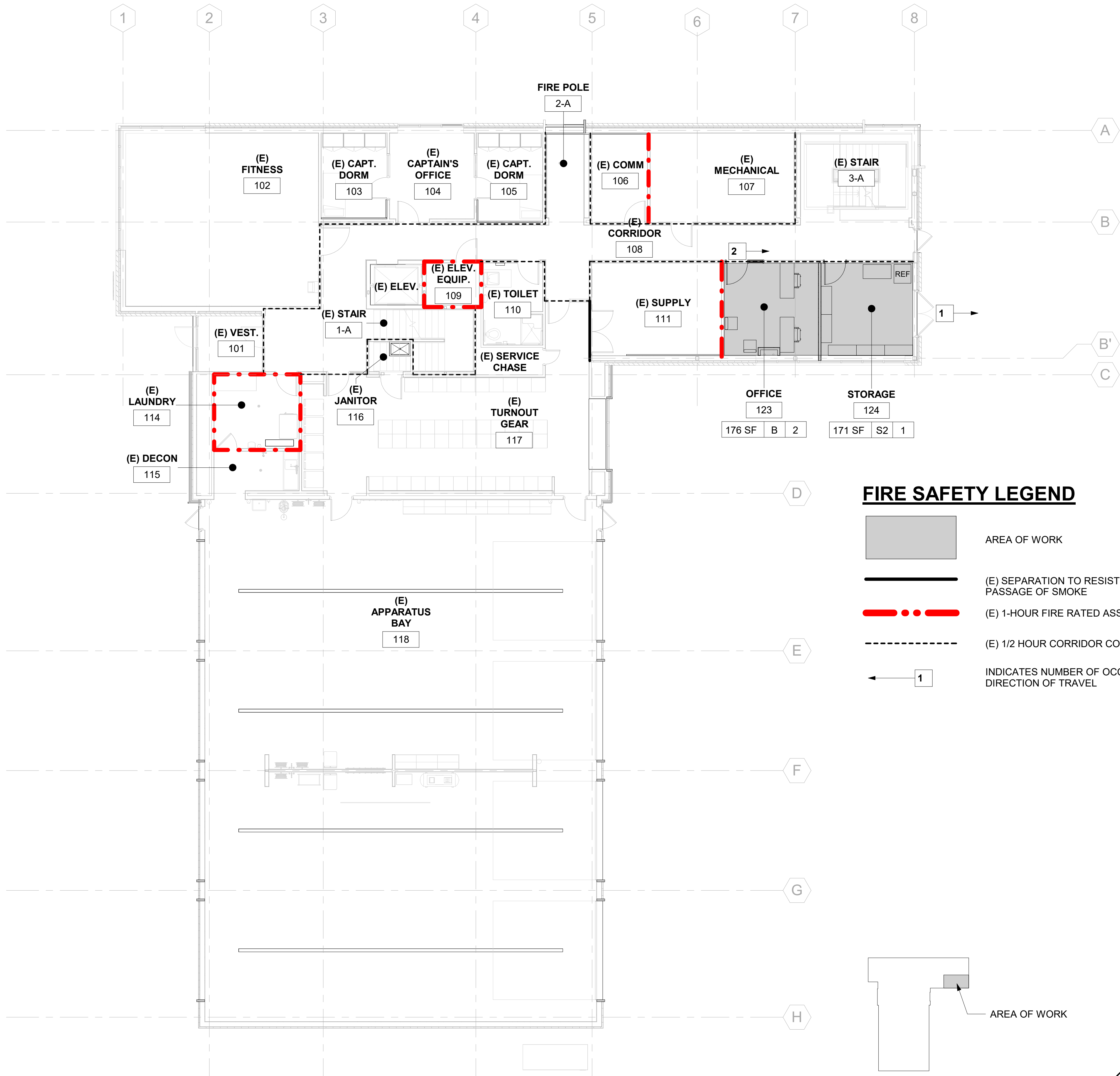


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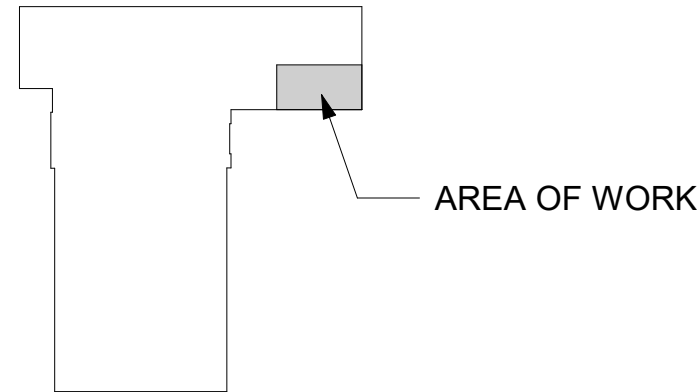
CONSTRUCTION DOCUMENTS



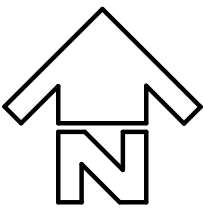
1 LIFE SAFETY PLAN
Scale: 1/8" = 1'-0"

FIRE SAFETY LEGEND

- AREA OF WORK
- (E) SEPARATION TO RESIST PASSAGE OF SMOKE
- (E) 1-HOUR FIRE RATED ASSEMBLY
- (E) 1/2 HOUR CORRIDOR CONSTRUCTION
- INDICATES NUMBER OF OCCUPANTS AND DIRECTION OF TRAVEL



KEY PLAN



EXISTING BUILDING INFORMATION

BACKGROUND HISTORY: THE CODE INFORMATION BELOW IS BASED ON DRAWINGS PREPARED IN FEBRUARY 2011, PREPARED BY BURKHART CROFT ARCHITECTS, ANCHORAGE, ALASKA AND WERE SIGNED AND SEALED WITH THE APPROPRIATE ARCHITECT AND ENGINEERS STAMP.

- BUILDING CONSTRUCTION TYPE:
- TYPE VB, 2-STORY
 - AUTOMATIC FIRE SPRINKLER SYSTEM PROVIDED
 - MANUAL FIRE ALARM SYSTEM PROVIDED

- OCCUPANCY CLASSIFICATION:
- GROUP R-2 (DORMITORY): DORMITORY ROOMS
 - GROUP S-2 (ENCLOSED PARKING): APPARATUS BAYS
 - GROUP B (BUSINESS): ALL OTHER SPACES

RENOVATION ON THE EXISTING BUILDING INFORMATION

APPLICABLE BUILDING CODES AND STANDARDS
INTERNATIONAL EXISTING BUILDING CODES AND STANDARDS (IEBC) 2018
INTERNATIONAL BUILDING CODE (IBC) 2021 EDITION
INTERNATIONAL FIRE CODE (IFC) 2021 EDITION
INTERNATIONAL MECHANICAL CODE (IMC) 2021 EDITION
NATIONAL ELECTRIC CODE (NEC)

2018 INTERNATIONAL EXISTING BUILDING CODE
THIS RENOVATION WILL BE A LEVEL 2 ALTERATION

CHAPTER 6 - CLARIFICATION OF WORK
SECTION 601 GENERAL
601.1 SCOPE. THE PROVISIONS OF THIS CHAPTER SHALL BE USED IN CONJUNCTION WITH CHAPTERS 7 THROUGH 12 AND SHALL APPLY TO THE ALTERATION OF EXISTING STRUCTURES. THE WORK PREFORMED ON AN EXISTING BUILDING SHALL BE CLASSIFIED IN ACCORDANCE WITH THIS CHAPTER.

601.2 WORK AREA. THE WORK AREA AS DEFINED IN CHAPTER 2, SHALL BE IDENTIFIED ON THE CONSTRUCTION DRAWINGS.
SEE FLOOR PLANS DETAIL 1/G102

SECTION 603 ALTERATION-LEVEL 2
603.1 SCOPE. LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OF SPACE, THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.
THIS PROJECT SHALL BE CONSIDERED A LEVEL 2 ALTERATION
603.2 APPLICATION. LEVEL 2 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 7 AND 8 FOR LEVEL 1 AND 2 ALTERATIONS RESPECTIVELY.

CHAPTER 7 - ALTERATIONS-LEVEL 1
SECTION 702 BUILDING ELEMENTS AND MATERIALS
702.1 INTERIOR FINISHES. NEWLY INSTALLED INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH CHAPTER 8 OF THE 2021 IBC

SECTION 703 FIRE PROTECTION
703.1 GENERAL. ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED

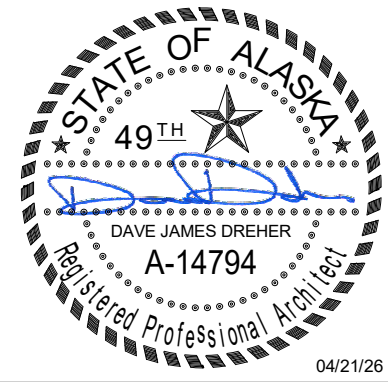
SECTION 704 MEANS OF EGRESS
704.1 GENERAL. ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION PROVIDED FOR THE MEANS OF EGRESS

CHAPTER 8 - ALTERATIONS-LEVEL 2
SECTION 801 GENERAL
801.3 COMPLIANCE. NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS, AND SPACES SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2021 EDITION.

SECTION 802 BUILDING ELEMENTS AND MATERIALS
802.4 INTERIOR FINISH. THE INTERIOR FINISH OF WALLS AND CEILINGS IN EXITS AND CORRIDORS IN ANY WORK AREA SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2021 EDITION.

SECTION 803 FIRE PROTECTION
803.2 AUTOMATIC SPRINKLER SYSTEMS. AN AUTOMATIC SPRINKLER SYSTEM IS INSTALLED IN THE EXISTING BUILDING THROUGHOUT AND WILL BE MAINTAINED TO MEET ALL REQUIREMENTS OF THIS CODE SECTION AND IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2021 EDITION

803.4 FIRE ALARM AND DETECTION
PROJECT WILL MEET ALL REQUIREMENTS



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CONSTRUCTION DOCUMENTS

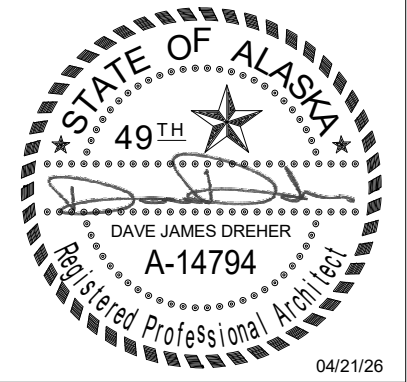
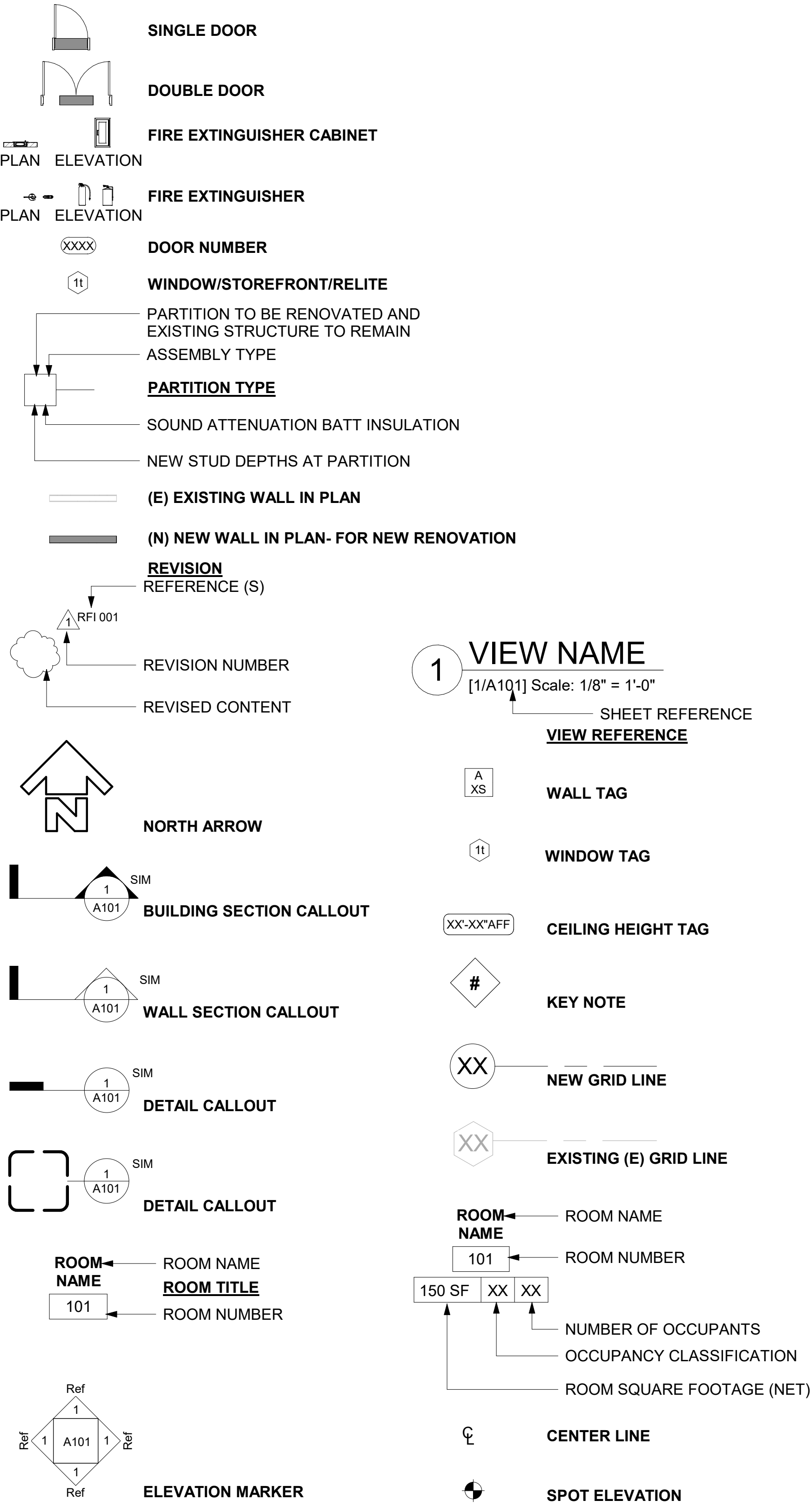
ABBREVIATIONS

#	POUND OR NUMBER
&	AND
(E)	EXISTING
(N)	NEW
(R)	RENOVATE
@	AT
A/E	ARCHITECT/ ENGINEER
AB	ANCHOR BOLT
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADA	AMAERICANS WITH DISABILITIES ACT
ADD	ADDITIVE
ADD'L	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AIB	AIR INFILTRATION BARRIER
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AWC	ACOUSTICAL WALL PANEL
B	BENCH
BD	BOARD
BIM	BUILDING INFORMATION MODELING
BLDG	BUILDING
BLK	BLOCK OR BLOCKING
BM	BEAM
BO	BOTTOM OF
CAB	CABINET
CALC	CALCULATION
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CH	COAT HOOK
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
CT	CERAMIC TILE
CTOP	COUNTER TOP
CW	CURTAIN WALL
D	DRYER
DBLS	DOUBLE SIDED
DEG	DEGREE
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DO	DOOR OPENING
DS	DOWN SPOUT
DTL	DETAIL
DW	DISH WASHER
DWG	DRAWING
EA	EACH
EIFS	EXTERIOR INSULATED FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EPB	ELECTRICAL PANEL BOARD
EQ	EQUAL
EQP	EQUIPMENT
ETR	EXISITNG TO REMAIN
EXT	EXTERIOR
FA	FIRE ALARM
FCO	FLOOR CLEAN OUT
FCTY	FACTORY FINISH
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER

FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FFE	FIXTURES, FURNITURE, EQUIPMENT
FHC	FIRE HOUSE CABINET
FIN	FINISH
FL	FLOOR
FO	FRAME OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FOT	FUEL OIL TANK
FP	FILLER PANEL
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RETARDANT TREATED
FS	FILLER STRIP
FT	FEET
FURN	FURNACE
FV	FIELD VERIFY
GA	GUAGE
GALV	GALVINIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GLB/GLBM	GLULAM BEAM
GWB	GYSUM WALL BOARD
HCP	HANDICAP ACCESSIBLE
HDWR	HARDWARE
HDWRGRP	HARDWARE GROUP
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING VENTILATING, AND AIR CONDITIONING
HWH	HOT WATER HEATER
IBC	INTERNATIONAL BUILDING CODE
IMP	INSULATED METAL PANEL
INSUL	INSULATION
INT	INTERIOR
IRP	IMPACT RESISTANT PANEL
JAN	JANITOR
JNT	JOINT
KD	KNOCK DOWN
L	ANGLE
LAV	LAVORTORY
LOP	LAYOUT POINT
LVL	LEVEL
MAT	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFD	MANUFACTURED
MFR	MANUFACTURER
MH	MANHOLE
MI	MIRROR
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MOVEMENT JOINT
ML	METAL LOCKER
MR	MOP RACK
MRP	METAL ROOF PANEL
MS	METAL SHELVES
MTD	MOUNTED
MTL	METAL
MWP	METAL WALL PANEL
N	NORTH
NFS	NON-FROST SUSCEPTIBLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	DIAMETER
O.C.	ON CENTER
O/O	OUTSIDE TO OUTSIDE
OCCS	OCCUPANTS
OD	OVERFLOW DRAIN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER ISTALLED
OPH	OPPOSITE HAND
OSB	ORIENTED STRAND BOARD
OTS	OPEN TO STRUCTURE
PL	PLASTIC LAMINATE

PLP	PHENOLIC LAMINATE PANEL
PLYWD	PLYWOOD
PNT	PAINT
PS	PROJECTION SCREEN
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R&C	ROD AND CURTAIN
R&S	ROD AND SHELF
RAD	RADIUS
RB	RUBBER BASE
RCF	RESILIENT COMMERCIAL FLOORING
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIDGERATOR
REINF	REINFORCED
REM	REMARK
REQ	REQUIRED/ REQUIREMENTS
RH	ROBE HOOK
RM	ROOM
RO	ROUGH OPENING
SAFF	SELF ADHERING FLEXIBLE FLASHING
SCHED	SCHEDULE
SD	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FEET/ FOOT
SHEATH	SHEATHING
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SPEC	SPECIFICATION/S
SQ	SQUARE
SRFM	SPRAYED FIRE-RESISTIVE MATERIAL
SS	SOLID SURFACE
SSTL	STAINLESS STEEL
SSWS	STAINLESS STEEL WALL SYSTEM
STG	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
T&G	TONGUE AND GROOVE
TB	TACK BOARD
TBS	TO BE SELECTED
TG	TEMPERED GLASS
TO	TOP OF
TPD	TOILET PAPER DISPENSER
TSC	TOILET SEAT COVER
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VP	VINYL PLANK
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WASHER
W/	WIDTH
WAR	WASTE RECEPTACLE
WB	WEATHER BARRIER
WC	WATER CLOSET
WD	WOOD
WO	WALK OFF MATT
WR	WATER RESISTANT
WRGWB	WATER RESISTANT GYPSUM WALL BOARD
WSCOT	WAINSCOT
WWF	WELDED WIRE FABRIC

ARCHITECTURAL GRAPHIC SYMBOLS



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A001

CONSTRUCTION DOCUMENTS

DIVISION 07 - THERMAL AND MOISTURE PROTECTION SECTION 078400 - FIRESTOPPING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Firestopping systems.
- B. Firestopping of joints and penetrations in fire-resistance-rated and smoke-resistant assemblies.

1.04 SUBMITTALS

- B. Schedule of Firestopping: List each type of penetration, fire rating of the penetrated assembly, and firestopping test or design number.
- C. Product Data: Provide data on product characteristics, performance ratings, and limitations.
- D. Manufacturer's Installation Instructions: Indicate preparation and installation instructions.
- E. Manufacturer's qualification statement.
- F. Installer's qualification statement.

1.05 QUALITY ASSURANCE

- A. Fire Testing: Provide firestopping assemblies of designs that provide the scheduled fire ratings when tested in accordance with methods indicated.
 - 1. Listing in UL (FRD), FM (AG), or ITS (DIR) will be considered as constituting an acceptable test report.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Installer Qualifications: Company specializing in performing the work of this section and:
 - 1. Trained by manufacturer.

1.06 FIELD CONDITIONS

- A. Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation; maintain minimum temperature before, during, and for three days after installation of materials.
- B. Provide ventilation in areas where solvent-cured materials are being installed.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Firestopping Manufacturers:
 - 1. 3M Fire Protection Products; : www.3m.com/firestop/#sle.
 - 2. Hilti, Inc; : www.hilti.com/#sle.
 - 3. Tremco Commercial Sealants & Waterproofing; TREMstop Acrylic: www.tremcosealants.com/#sle.

2.02 MATERIALS

- A. Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories: Provide type of materials as required for tested firestopping assembly.

2.03 FIRESTOPPING ASSEMBLY REQUIREMENTS

- A. Through Penetration Firestopping: Use system that has been tested according to ASTM E814 to have fire resistance F Rating equal to required fire rating of penetrated assembly.
 - 1. Temperature Rise: Provide systems that have been tested to show T Rating as indicated.
 - 2. Air Leakage: Provide systems that have been tested to show L Rating as indicated.
 - 3. Watertightness: Provide systems that have been tested to show W Rating as indicated.
 - 4. Listing by FM (AG), ITS (DIR), UL (DIR), or UL (FRD) in their certification directories will be considered evidence of successful testing.

2.04 FIRESTOPPING PENETRATIONS THROUGH GYPSUM BOARD WALLS

- A. Penetrations By:
 - 1. Uninsulated Metallic Pipe, Conduit, and Tubing:
 - a. 1 Hour Construction: UL System W-L-1054; Hilti FS-ONE MAX Intumescent Firestop Sealant.
 - b. 1 Hour Construction: UL System W-L-1164; Hilti FS-ONE MAX Intumescent Firestop Sealant.
 - 2. Insulated Pipes:
 - a. 1 Hour Construction: UL System W-L-5029; Hilti FS-ONE Intumescent Firestop Sealant.
 - 3. HVAC Ducts, Insulated:
 - a. 1 Hour Construction: UL System W-L-7156; Hilti FS-ONE MAX Intumescent Firestop Sealant.

2.05 FIRESTOPPING SYSTEMS

- A. Firestopping: Any material meeting requirements.
 - 1. Fire Ratings: Use system that is listed by FM (AG), ITS (DIR), or UL (FRD) and tested in accordance with ASTM E814, ASTM E119, or UL 1479 with F Rating equal to fire rating of penetrated assembly and minimum T Rating Equal to F Rating and in compliance with other specified requirements.
- B. Firestopping at Uninsulated Metallic Pipe and Conduit Penetrations, of diameter 4 inches (100 mm) or less: Caulk or putty.
 - 1. Corridor Walls: UL Design No. , F Rating 1/2 hour.
 - 2. Other Interior Partitions: UL Design No. , F Rating 1 hour.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify openings are ready to receive the work of this section.

3.02 PREPARATION

- A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other materials that could adversely affect bond of firestopping material.
 - B. Remove incompatible materials that could adversely affect bond.
- 3.03 INSTALLATION
- A. Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing openings.
 - B. Do not cover installed firestopping until inspected by authorities having jurisdiction.
 - C. Install labeling required by code.

3.04 FIELD QUALITY CONTROL

- A. Independent Testing Agency: Inspection agency employed and paid by Owner, will examine penetration firestopping in accordance with ASTM E2174 and ASTM E2393.
- B. Repair or replace penetration firestopping and joints at locations where inspection results indicate firestopping or joints do not meet specified requirements.

3.05 CLEANING

- A. Clean adjacent surfaces of firestopping materials.

3.06 PROTECTION

- A. Protect adjacent surfaces from damage by material installation.

END OF SECTION

SECTION 079200 - JOINT SEALANTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Nonsag gunnable joint sealants.
- B. Joint backings and accessories.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:
 - 1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
 - 2. List of backing materials approved for use with the specific product.
 - 3. Backing material recommended by sealant manufacturer.
 - 4. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
 - 5. Substrates the product should not be used on.
 - 6. Certification by manufacturer indicating that product complies with specification requirements.
- B. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.
- C. Executed warranty.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented experience.
- B. Installation Plan: Include schedule of sealed joints, including the following:
 - 1. Installation Log Form: Include the following data fields, with known information filled out.
 - a. Date of installation.
 - b. Name of installer.
 - c. Actual joint width; provide space to indicate maximum and minimum width.
 - d. Actual joint depth to face of backing material at centerline of joint.
 - e. Air temperature.

1.06 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide 2-year manufacturer warranty for installed sealants and accessories that fail to achieve a watertight seal, exhibit loss of adhesion or cohesion, or do not cure. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Nonsag Sealants:
 - 1. Dow; : www.dow.com/#sle.

2.02 JOINT SEALANT APPLICATIONS

- A. Scope:
 - 1. Interior Joints:
 - a. Seal the following joints:
 - 1) Joints between door frames and window frames and adjacent construction.
- B. Type - Interior Joints: Use nonsag polyurethane sealant, unless otherwise indicated.
- C. Sound-Rated Assemblies: Walls and ceilings identified as STC-rated, sound-rated, or acoustical.

2.03 JOINT SEALANTS - GENERAL

2.04 NONSAG JOINT SEALANTS

- A. Nonstaining Silicone Sealant: ASTM C920, Grade NS, Uses M, A, G, and O; not expected to withstand continuous water immersion or traffic.
 - 1. Movement Capability: Plus 100 percent and minus 50 percent, minimum.
 - 2. Nonstaining to Porous Stone: Nonstaining to light-colored natural stone when tested in accordance with ASTM C1248.
 - 3. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants.
 - 4. Color: To be selected by Architect from manufacturer's standard range.
 - 5. Cure Type: Single-component, neutral moisture curing.
 - 6. Products:
 - a. Dow; DOWSIL 790 Silicone Building Sealant: www.dow.com/#sle.
 - b. Momentive Performance Materials, Inc/GE Silicones: www.siliconeforbuilding.com/#sle.

2.05 ACCESSORIES

- A. Sealant Backing Materials, General: Materials placed in joint before applying sealants; assists sealant performance and service life by developing optimum sealant profile and preventing three-sided adhesion; type and size recommended by sealant manufacturer for compatibility with sealant, substrate, and application.
- B. Sealant Backing Rod, Closed-Cell Type:
 - 1. Cylindrical flexible sealant backings complying with ASTM C1330 Type C.
- C. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.
- D. Masking Tape: Self-adhesive, nonabsorbent, nonstaining, removable without adhesive residue, and compatible with surfaces adjacent to joints and sealants.
- E. Joint Cleaner: Noncorrosive and nonstaining type, type recommended by sealant manufacturer; compatible with joint forming materials.
- F. Primers: Type recommended by sealant manufacturer to suit application; nonstaining.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that joints are ready to receive work.
- B. Verify that backing materials are compatible with sealants.
- C. Verify that backer rods are of the correct size.

3.02 PREPARATION

- A. Remove loose materials and foreign matter that could impair adhesion of sealant.
- B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

3.03 INSTALLATION

- A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Provide joint sealant installations complying with ASTM C1193.
- C. Install acoustical sealant application work in accordance with ASTM C919.
- D. Install bond breaker backing tape where backer rod cannot be used.
- E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
- F. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.
- G. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

DIVISION 08 - OPENINGS

SECTION 081213 - HOLLOW METAL FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fire-rated hollow metal frames for non-hollow metal doors.
- B. Interior glazed borrowed lite frames.

1.04 SUBMITTALS

- A. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes.
- B. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and identifying location of different finishes, if any.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store in accordance with applicable requirements and in compliance with standards and/or custom guidelines as indicated.
- B. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Hollow Metal Frames:
 - 1. Ceco Door, an Assa Abloy Group company; www.assaabloydss.com/#sle.
 - 2. Curries, an Assa Abloy Group company; www.assaabloydss.com/#sle.

2.02 PERFORMANCE REQUIREMENTS

- A. Door Frame Type: Provide hollow metal door frames with .
 - 1. Interior Doors: Use frames with applied casings.
- B. Steel Sheet: Comply with one or more of the following requirements; galvanized steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.
- C. Accessibility: Comply with ICC A117.1 and ADA Standards.
- D. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior frame that is also indicated as being sound-rated must comply with the requirements specified for exterior frames and for sound-rated frames; where two requirements conflict, comply with the most stringent.
- E. Hardware Preparations, Selections and Locations: Comply with BHMA A156.115, NAAMM HMMA 830, NAAMM HMMA 831 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
- F. Frames for Interior Glazing or Borrowed Lites: Construction and face dimensions to match door frames, and as indicated on drawings.

2.03 HOLLOW METAL DOOR FRAMES

- A. Frame Finish: Factory primed and field finished.
- B. Fire-Rated Door Frames: Knock-down type.
 - 1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
 - a. Level 4 - Maximum-duty.
 - b. Physical Performance Level A, 1,000,000 cycles; in accordance with ANSI/SDI A250.4.
 - c. Frame Metal Thickness: 14 gauge, 0.067 inch (1.7 mm), minimum.
 - d. Zinc Coating: A40/ZF120 galvanized coating; ASTM A653/A653M.
 - 2. Fire Rating: As indicated on Door and Frame Schedule, tested in accordance with UL 10C or NFPA 252 ("positive pressure fire tests").
 - 3. Provide units listed and labeled by ITS (DIR) or UL (DIR).
 - a. Attach fire rating label to each fire rated unit.
 - 4. Frame Finish: Factory primed and field finished.

2.04 FINISHES

- A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

2.02 ACCESSORIES

- A. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions.
- B. Removable Stops: Formed sheet steel, shape as indicated on drawings, mitered or butted corners; prepared for countersink style tamper proof screws.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that opening sizes and tolerances are acceptable.
- C. Verify that finished walls are in plane to ensure proper door alignment.

3.02 INSTALLATION

- A. Install frames in accordance with manufacturer's instructions and related requirements of specified frame standards or custom guidelines indicated.
- B. Install fire rated units in accordance with NFPA 80.
- C. Coordinate frame anchor placement with wall construction.
- D. Comply with glazing installation requirements of Section 088000.
- E. Install door hardware as specified in Section 087100.
 - 1. Comply with recommended practice for hardware placement of doors and frames in accordance with ANSI/SDI A250.6 or NAAMM HMMA 861.
- F. Touch up damaged factory finishes.

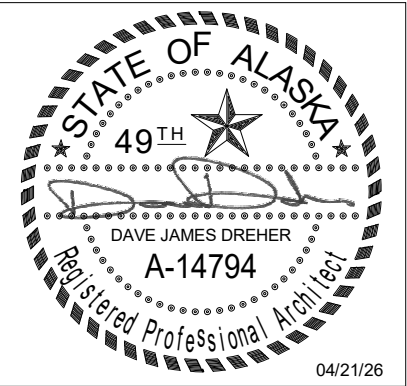
3.03 TOLERANCES

- A. Clearances Between Door and Frame: Comply with related requirements of specified frame standards or custom guidelines indicated in accordance with SDI 117 or NAAMM HMMA 861.
- B. Maximum Diagonal Distortion: 1/16 inch (1.5 mm) measured with straight edges, crossed corner to corner.

3.04 SCHEDULE

- A. Refer to Door and Frame Schedule on the drawings.

END OF SECTION



MUNICIPALITY OF ANCHORAGE
FIRE STATION 6 OFFICE
RENOVATION
ANCHORAGE, ALASKA

CONSTRUCTION DOCUMENTS

DATE: 04/21/26

DRAWN: MCL, ALR

CHECKED: DJD

PROJECT: 2213.32

DRAWING TITLE:
SPECIFICATIONS

REVISIONS:

SHEET NO:

A002

SECTION 081416 - FLUSH WOOD DOORS

1.01 SECTION INCLUDES

- A. Flush wood doors; flush and flush glazed configuration; fire-rated.

1.04 SUBMITTALS

- A. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.
- B. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.
1. Provide information as required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
- C. Samples: Submit two samples of door veneer, 8 by 10 inches (by mm) in size illustrating wood grain, stain color, and sheen.
- D. Certificate: Submit labels and certificates required by quality assurance and quality control programs.
- E. Warranty, executed in Owner's name.

1.05 QUALITY ASSURANCE

- A. Woodwork Quality Assurance Program:
1. Comply with AWI (QCP) woodwork association quality assurance service/program in accordance with requirements for work specified in this section; www.awiqcp.org/#sle.
2. Provide labels indicating that the installed work complies with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade or grades specified.
3. Provide designated labels on shop drawings as required by quality assurance program.
4. Provide designated labels on installed products as required by quality assurance program.
5. Submit documentation upon completion of installation that verifies this work is in compliance with specified requirements.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Package, deliver and store doors in accordance with specified quality standard.
- B. Accept doors on site in manufacturer's packaging, and inspect for damage.
- C. Protect doors with resilient packaging sealed with heat shrunk plastic; do not store in damp or wet areas or areas where sunlight might bleach veneer; seal top and bottom edges with tinted sealer if stored more than one week, and break seal on site to permit ventilation.

1.07 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide manufacturer's warranty on interior doors for the life of the installation. Complete forms in Owner's name and register with manufacturer.
1. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Wood Veneer Faced Doors:
1. VT Industries, Inc: www.vtindustries.com/#sle.

2.02 DOORS AND PANELS

- A. Doors: See drawings for locations and additional requirements.
1. Quality Standard: Custom Grade, Extra Heavy Duty performance, in accordance with WDMA I.S. 1A.
2. Wood Veneer Faced Doors: 5-ply unless otherwise indicated.
- B. Interior Doors: 1-3/4 inches (44 mm) thick unless otherwise indicated; flush construction.
1. Provide solid core doors at each location.
2. Fire Rated Doors: Tested to ratings indicated on drawings in accordance with UL 10C - Positive Pressure; Underwriters Laboratories Inc (UL) or Intertek/Warnock Hersey (WHI) labeled without any visible seals when door is open.
3. Wood veneer facing with factory transparent finish as indicated on drawings.

2.03 DOOR AND PANEL CORES

- A. Fire-Rated Doors: Mineral core type, with fire resistant composite core (FD), plies and f aces as indicated above; with core blocking as required to provide adequate anchorage of hardware without through-bolting.

2.04 DOOR FACINGS

- A. Veneer Facing for Transparent Finish: White oak, veneer grade in accordance with quality standard indicated, plain sliced (flat cut), with slip match between leaves of veneer, of spliced veneer leaves assembled on door or panel face.
1. Vertical Edges: Same species as face veneer.

2.05 DOOR CONSTRUCTION

- A. Fabricate doors in accordance with door quality standard specified.
- B. Cores Constructed with stiles and rails:
1. Provide solid blocks at lock edge for hardware reinforcement.
- C. Glazed Openings: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.
- D. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.
- E. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.
- F. Provide edge clearances in accordance with the quality standard specified.

2.06 FINISHES - WOOD VENEER DOORS

- A. Finish work in accordance with WDMA I.S. 1A for grade specified and as follows:
1. Transparent:
- a. System - TR-6, Catalyzed Polyurethane.
- b. Stain: As selected by Architect.
- c. Sheen: Flat.
- B. Factory finish doors in accordance with approved sample.
- C. Seal door top edge with color sealer to match door facing.
- 2.07 ACCESSORIES
- A. Hollow Metal Door Frames: See Section 081113.
- B. Glazed Openings:
1. Fire-Protection-Rated Glass: Safety Certification, 16 CFR 1201, Category II.
- C. Door Window Frames: Door window frames with glazing securely fastened within door opening.
1. Size: As indicated on drawings.
- D. Glazing: See Section 088000.
- E. Glazing Stops: Wood, of same species as door facing, mitered corners; prepared for countersink style tamper proof screws.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that opening sizes and tolerances are acceptable.
- C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

3.02 INSTALLATION

- A. Install doors in accordance with manufacturer's instructions and specified quality standard.
- B. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.
- C. Use machine tools to cut or drill for hardware.
- D. Coordinate installation of doors with installation of frames and hardware.
- E. Coordinate installation of glazing.

3.03 TOLERANCES

- A. Comply with specified quality standard for fit and clearance tolerances.
- B. Comply with specified quality standard for telegraphing, warp, and squareness.

3.04 ADJUSTING

- A. Adjust doors for smooth and balanced door movement.
- B. Adjust closers for full closure.

3.02 SCHEDULE - SEE DRAWINGS END OF SECTION

SECTION 087100 - DOOR HARDWARE

1.01 RELATED REQUIREMENTS

1.04 DELIVERY, STORAGE, AND HANDLING

- A. See Section 017419 - Construction Waste Management and Disposal for packaging waste requirements.
- B. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

1.05 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide manufacturer warranty against defects in material and workmanship for period indicated, from Date of Substantial Completion. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

- A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.
- B. Provide individual items of single type, of same model, and by same manufacturer.
- C. Fasteners:
1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
- a. Aluminum fasteners are not permitted.
- b. Provide phillips flat-head screws with heads finished to match door surface hardware unless otherwise indicated.
2. Provide machine screws for attachment to reinforced hollow metal and aluminum frames.
- a. Self-drilling (Tek) type screws are not permitted.
3. Provide stainless steel machine screws and lead expansion shields for concrete and masonry substrates.
4. Provide wall grip inserts for hollow wall construction.
5. Fire-Resistance-Rated Applications: Comply with NFPA 80.
- a. Provide wood or machine screws for hinges mortised to doors or frames, strike plates to frames, and closers to doors and frames.
- b. Provide steel through bolts for attachment of surface mounted closers, hinges, or exit devices to door panels unless proper door blocking is provided.

2.02 PERFORMANCE REQUIREMENTS

- A. Provide door hardware products that comply with the following requirements:
1. Applicable provisions of federal, state, and local codes.
2. Accessibility: ADA Standards and ICC A117.1.
3. Fire-Resistance-Rated Doors: NFPA 80, listed and labeled by qualified testing agency for fire protection ratings indicated, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.
4. Hardware on Fire-Resistance-Rated Doors: Listed and classified by UL (DIR), ITS (DIR), testing firm acceptable to authorities having jurisdiction, or as suitable for application indicated.
5. Hardware for Smoke and Draft Control Doors (Indicated as "S" on Drawings): Provide door hardware that complies with local codes, and requirements of assemblies tested in accordance with UL 1784.
6. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
7. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115V.
8. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified.

2.03 FINISHES END OF SECTION

SECTION 088000 - GLAZING

1.01 SECTION INCLUDES

- A. Glazing units.

1.04 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data on Glazing Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
- C. Samples: Submit two samples 12 by 12 inch (by mm) in size of glass units.
- D. Installer's qualification statement.

1.05 QUALITY ASSURANCE

- A. Perform work in accordance with GANA (GM), GANA (SM), IGMA TM-3000, NGA (LGRM), and for glazing installation methods. Maintain one copy on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- C. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.
- D. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

1.06 FIELD CONDITIONS

- A. Do not install glazing when ambient temperature is less than 40 degrees F (4 degrees C).

1.07 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

2.02 GLASS MATERIALS END OF SECTION

DIVISION 09 - FINISHES

SECTION 090561 - COMMON WORK RESULTS FOR FLOORING

1.01 SECTION INCLUDES

- A. This section applies to floors identified in Contract Documents that are receiving the following types of floor coverings:
1. Carpet tile.
- B. Preparation of existing concrete floor slabs for installation of floor coverings.
- C. Testing of concrete floor slabs for moisture and alkalinity (pH).
- D. Remediation of concrete floor slabs due to unsatisfactory moisture or alkalinity (pH) conditions.
1. Contractor shall perform all specified remediation of concrete floor slabs. If such remediation is indicated by testing agency's report and is due to a condition not under Contractor's control or could not have been predicted by examination prior to entering into the contract, a contract modification will be issued.

- E. Patching compound.

1.02 QUALITY ASSURANCE

- A. Contractor may perform adhesive and bond test with Contractor's own personnel or hire a testing agency.
- B. Floor Moisture Testing Technician Qualifications: International Concrete Repair Institute (ICRI) Concrete Slab Moisture Testing Technician Certification- Grade I.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, handle, and protect products in accordance with manufacturer's instructions and recommendations.
- B. Deliver materials in manufacturer's packaging; include installation instructions.
- C. Keep materials from freezing.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Patching Compound: Floor covering manufacturer's recommended product, suitable for conditions, and compatible with adhesive and floor covering. In the absence of any recommendation from flooring manufacturer, provide a product with the following characteristics:
1. Cementitious moisture-, mildew-, and alkali-resistant compound, compatible with floor, floor covering, and floor covering adhesive, and capable of being feathered to nothing at edges.

PART 3 EXECUTION

3.01 CONCRETE SLAB PREPARATION

- A. Perform following operations in the order indicated:
1. Existing concrete slabs (on-grade and elevated) with existing floor coverings:
- a. Visual observation of existing floor covering, for adhesion, water damage, alkaline deposits, and other defects.
- b. Removal of existing floor covering.
2. Existing concrete slabs with coatings or penetrating sealers/hardeners/dustproofers:
3. Preliminary cleaning.
4. Moisture vapor emission tests; 3 tests in the first 1000 square feet (100 square meters) and one test in each additional 1000 square feet (100 square meters), unless otherwise indicated or required by flooring manufacturer.
5. Internal relative humidity tests; in same locations as moisture vapor emission tests, unless otherwise indicated.
6. Alkalinity (pH) tests; in same locations as moisture vapor emission tests, unless otherwise indicated.
7. Specified remediation, if required.
8. Patching, smoothing, and leveling, as required.
9. Adhesive bond and compatibility test.

3.02 PRELIMINARY CLEANING

- A. Clean floors of dust, solvents, paint, wax, oil, grease, asphalt, residual adhesive, adhesive removers, film-forming curing compounds, sealing compounds, alkaline salts, excessive laitance, mold, mildew, and other materials that might prevent adhesive bond.
- B. Do not use solvents or other chemicals for cleaning.

3.03 MOISTURE VAPOR EMISSION TESTING

- A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.
- B. Where this specification conflicts with the referenced test method, comply with the requirements of this section.
- C. Test in accordance with ASTM F1869 and as follows.
- D. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if test values exceed 3 pounds per 1000 square feet (1.4 kg per 93 square meters) per 24 hours.
- E. Report: Report the information required by the test method.

3.04 ALKALINITY TESTING

- A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.
- B. The following procedure is the equivalent of that described in ASTM F710, repeated here f or the Contractor's convenience.
1. Use a wide range alkalinity (pH) test paper, its associated chart, and distilled or deionized water.
2. Place several drops of water on a clean surface of concrete, forming a puddle approximately 1 inch (25 mm) in diameter. Allow the puddle to set for approximately 60 seconds, then dip the alkalinity (pH) test paper into the water, remove it, and compare immediately to chart to determine alkalinity (pH) reading.
3. Use of a digital pH meter with probe is acceptable; follow meter manufacturer's instructions.
- C. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if alkalinity (pH) test value is over 10.

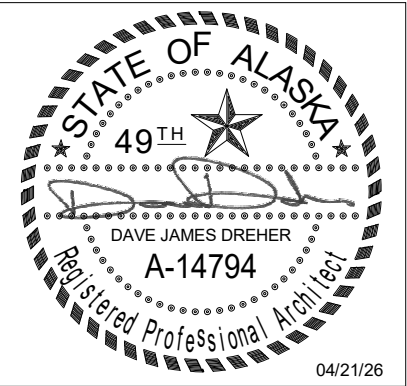
3.05 PREPARATION

- A. See individual floor covering section(s) for additional requirements.
- B. Comply with requirements and recommendations of floor covering manufacturer.
- C. Fill and smooth surface cracks, grooves, depressions, control joints and other non-moving joints, and other irregularities with patching compound.
- D. Do not fill expansion joints, isolation joints, or other moving joints.

3.06 ADHESIVE BOND AND COMPATIBILITY TESTING

- A. Comply with requirements and recommendations of floor covering manufacturer.

END OF SECTION



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MUNICIPALITY OF ANCHORAGE

**FIRE STATION 6 OFFICE
RENOVATION**
ANCHORAGE, ALASKA

CONSTRUCTION DOCUMENTS

DATE: 04/21/26

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PROJECT: 2213.32

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REVISIONS:

SHEET NO:

A003

SECTION 092116 - GYPSUM BOARD ASSEMBLIES

1.01 SECTION INCLUDES

- A. Performance criteria for gypsum board assemblies.
- B. Metal stud wall framing.
- C. Gypsum wallboard.
- D. Joint treatment and accessories.
- E. Insulation.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing gypsum board installation and finishing, with minimum years of experience.
- B. Copies of Documents at Site: Maintain at the project site a copy of each referenced document that prescribes execution requirements.

PART 2 PRODUCTS

2.01 WALL ASSEMBLY TYPES

- A. See drawings for graphic representations of assemblies.

2.02 GYPSUM BOARD ASSEMBLIES

- A. Provide completed assemblies complying with ASTM C840 and GA-216.
 - 1. See PART 3 for finishing requirements.
- B. Fire-Resistance-Rated Assemblies: Provide completed assemblies with the following characteristics:
 - 1. Fire-Resistance-Rated Partitions: IBC Table 720.1(2) Item 13-1.1; 1 hour rating.
 - 2. ICC IBC Item Numbers: Comply with applicable requirements of ICC IBC for the particular assembly.

2.03 METAL FRAMING MATERIALS

- A. Manufacturers - Metal Framing, Connectors, and Accessories:
 - 1. CEMCO: www.cemcosteel.com/#sle.
 - 2. ClarkDietrich: www.clarkdietrich.com/#sle.
- B. Non-structural Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/120 at 5 psf (L/120 at 240 Pa).
 - 1. Studs: "C" shaped with knurled or embossed faces.
 - a. Products:
 - 1) ClarkDietrich: www.clarkdietrich.com/#sle.
 - 2. Runners: U shaped, sized to match studs.
- C. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection using slotted holes, screws, and anti-friction bushings, preventing rotation of studs while maintaining structural performance of partition.
 - 1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI S100.
 - 2. Material: ASTM A653/A653M steel sheet, SS Grade 50/340, with G60/Z180 hot-dipped galvanized coating.
- D. Non-structural Framing Accessories:
 - 1. Framing Connectors: ASTM A653/A653M G90 galvanized steel clips; secures cold rolled channel to wall studs for lateral bracing.

2.04 BOARD MATERIALS

- A. Manufacturers - Gypsum-Based Board:
 - 1. USG Corporation:
 - 2. Gypsum Board: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
 - 1. Application: Use for vertical surfaces, unless otherwise indicated.
 - 2. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
 - 3. Thickness:
 - a. Vertical Surfaces: As indicated on drawings.
 - 4. Paper-Faced Fire-Resistant Board Products:
 - a. USG Corporation; USG Sheetrock Brand Firecode SCX Panels 5/8 inch:

2.02 GYPSUM WALLBOARD ACCESSORIES

- A. Glass Fiber Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.
 - 1. Type 1, Class A, unfaced.
 - 2. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
 - 3. Smoke Developed Index: 50 or less, when tested in accordance with ASTM E84.
 - 4. Combustibility: Non-combustible, when tested in accordance with ASTM E136, except for facing, if any.
 - 5. Sustainability Certifications: Greenguard Gold Certified; Declare Red List Free.
 - 6. Products:
 - a. Knauf Insulation Inc; Knauf EcoBatt Insulation
- B. Beads and Joint Accessories: ASTM C1047, rigid plastic, galvanized steel, or rolled zinc, unless otherwise indicated.
 - 1. Corner Beads: Low profile,
- C. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.
- D. Finishing Compound: Surface coat and primer, takes the place of skim coating.
- E. Fasteners and Adhesives: Products recommended by gypsum board manufacturer.
 - 1. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inches (0.84 mm) in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosion-resistant.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that project conditions are appropriate for work of this section to commence.

3.02 FRAMING INSTALLATION

- A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.
- B. Studs: Space studs at 16 inches on center (at 406 mm on center).
 - 1. Extend partition framing to structure in all locations.
 - 2. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.
- C. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.
- D. Blocking: Install wood blocking for support of:
 - 1. Framed openings.

3.03 JOINT TREATMENT

- A. Paper Faced Gypsum Board: Use paper joint tape, embed with drying type joint compound and finish with drying type joint compound.
- B. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
 - 1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
 - 2. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.
- C. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
 - 1. Feather coats of joint compound so that camber is maximum 1/32 inch (0.8 mm).
- D. Where Level 5 finish is indicated, spray apply high build drywall surfacer over entire surface after joints have been properly treated; achieve a flat and tool mark-free finish.

3.04 TOLERANCES

- A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet (3 mm in 3 m) in any direction.

END OF SECTION

SECTION 095100 - ACOUSTICAL CEILINGS

1.01 SECTION INCLUDES

- A. Suspended metal grid ceiling systems.
- B. Acoustical units.
- C. Supplementary acoustical insulation above ceiling.
- D. Wall angles and shadow moldings.
- E. Special trims and accessories.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate work of this section with installation of mechanical and electrical components and with other construction activities affected by work of this section.
- B. Sequencing: Schedule work of affected trades to minimize or eliminate installation conflicts and rework.
 - 1. Ensure that acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved. Do not install acoustical units until after interior wet work is dry.

1.05 SUBMITTALS

- A. Shop Drawings: Indicate grid layout and related dimensioning.
- B. Product Data: Provide data on suspension system components and acoustical units.
- C. Samples: Two samples 6 by 6 inches (by mm) in size indicating material and finish of acoustical units.
- D. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. Extra Acoustical Units: Quantity equal to 5 percent of total installed.

1.06 QUALITY ASSURANCE

- A. Designer Qualifications for Seismic Design: Perform under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State in which the Project is located.

PART 2 PRODUCTS

2.01 CEILING ASSEMBLIES

- A. Refer to Room Finish Schedule and Reflected Ceiling Plans on drawings for additional ceiling assembly information.
- B. Acoustical Ceiling Assembly Type APC-1:
 - 1. Acoustical Units: Olympia Micro 50 NRC 5/8".
 - a. Panel Size: 24 inches by 48 inches (2 by 4) panel (609.6 mm by 1219.2 mm).
 - b. Panel Edge: SQ edge.
 - c. Color: Flat White.
 - 2. Suspension Grid: Donn Centricitee DXT 9/16-inch Suspension System.
 - a. Color: Reserve white.

2.02 CEILING PERFORMANCE REQUIREMENTS

- A. Design for maximum deflection of 1/360 of span.
- B. Seismic Performance: Ceiling systems designed to withstand the effects of earthquake motions determined according to ASCE 7 for Seismic Design Category D, E, or F and complying with the following:

2.03 CEILING COMPONENT PRODUCTS

- A. Acoustical Units:
 - 1. Acoustical Units - General: ASTM E1264, Fire Class A.
 - a. Noise Reduction Coefficient (NRC) rating, Ceiling Attenuation Class (CAC) rating, and Light Reflectance Coefficient (LR) performance for each type of unit specified below, as determined in accordance with ASTM E1264.
 - b. Fire Class / Surface Burning Characteristics: Determined in accordance with test method ASTM E84.
 - 2. Acoustical Panels: Painted mineral fiber, with the following characteristics:
 - a. Classification: ASTM E1264 Type A - Mineral Base; Form A1 - with painted finish.
 - b. Products:
 - 1) USG Corporation; Olympia Micro 50 NRC 5/8" Panels
- B. Suspension Systems:
 - 1. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with wall angles and moldings, perimeter trim, hold down clips, stabilizer bars, and seismic clips as required.
 - a. Stabilizer Bars: Manufacturer's standard bars designed to provide system rigidity in large module applications.
 - 1) Lengths: As applicable to module dimensions, main tee spacing, and panel sizes of ceiling assemblies specified.
 - b. Materials:
 - 1) Steel Grid: ASTM A653/A653M G30 coating, unless otherwise indicated.
 - 2. Exposed Acoustical Suspension System: Hot-dipped galvanized steel grid and cap.
 - a. Application(s): Seismic.
 - b. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.
 - c. Profile: Tee; 15/16 inch (24 mm) face width.
 - d. Color: Flat White 050.
 - e. Products:
 - 1) USG Corporation; DX 15/16 Inch Suspension System

C. Moldings and Trim:

- 1. Edge Molding and Splices - General: Same material, thickness, and finish as metal pan panels, unless otherwise indicated.
- 2. Perimeter Wall Moldings: Same metal and finish as grid.
 - a. Size: As required for installation conditions.
 - b. Acoustical Sealant For Perimeter Moldings: Nonhardening, nonskinning, for use in conjunction with suspended ceiling system.
- 3. Trim Accessories: Manufacturer's standard clips, cleats splice plates, extension plates, closure plates, corner pieces, and similar accessories required for a complete installation.

2.01 ACCESSORIES

- A. Support Channels, Carriers, and Hangers: Galvanized steel; size and type to suit application and ceiling system flatness requirement specified.
- B. Suspension Wire: Size and type as required for application, seismic requirements, and ceiling system flatness requirement specified.
 - 1. Concealed Suspension:
 - a. Suspension Wire: Steel, annealed, galvanized finish, 12 gauge, 0.0808 (2.05 mm) diameter, complying with ASTM A641/A641M.
- C. Hold-Down Clips: Manufacturer's standard clips to suit application.
- D. Seismic Clips: Manufacturer's standard clips for seismic conditions and to suit application.
- E. Touch-Up Paint for Exposed Surfaces: Type and color to match acoustical units and suspension system grid and trim elements.
- F. Touch-Up Paint For Concealed Items: Zinc rich type, as recommended by ceiling system manufacturer.

2.02 FABRICATION

- A. Shop fabricate ceiling components to the greatest extent possible.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that layout of hangers will not interfere with other work.
- C. Verify that field measurements are as indicated on shop drawings.
- D. Start of installation constitutes acceptance of project conditions.

3.02 PREPARATION

- A. Coordinate the location of hangers with other work.
- B. Install ceiling system after major above-ceiling work is complete.

3.03 INSTALLATION - SUSPENSION SYSTEM

- A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.
- B. Install hangers and inserts coordinated with overhead work. Provide additional hangers and supports as required.
- C. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- D. Seismic Suspension System, Seismic Design Categories D, E, F: Hang suspension system with grid ends attached to the perimeter molding on two adjacent walls; on opposite walls, maintain a 3/4 inch (19 mm) clearance between grid ends and wall.
- E. Where ducts, facility services, or equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- F. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- G. Support fixture loads using supplementary hangers located within 6 inches (152 mm) of each corner, or support components independently.
- H. Do not eccentrically load system or induce rotation of runners.
- I. Edge Moldings: Install at intersection of ceiling and vertical surfaces and penetrations, using components of maximum length; set level. Provide edge moldings at junction with other ceiling finishes. Miter corners. Provide preformed edge closures to match bullnosed cornered partitions.
 - 1. Use longest practical lengths.

3.04 INSTALLATION - ACOUSTICAL UNITS

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit edge trim neatly against abutting surfaces.
- D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- E. Cutting Acoustical Units:
 - 1. Make field cut edges of same profile as factory edges.

3.05 CLEANING

- A. Clean and touch up minor finish damage. Remove and replace components that cannot be successfully cleaned and repaired.

END OF SECTION

SECTION 096813 - TILE CARPETING PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Carpet tile, fully adhered.

1.04 SUBMITTALS

- A. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.
- B. Shop Drawings: Indicate pattern layout.
- C. Samples: Submit one carpet tiles illustrating color and pattern design for each carpet color selected.
- D. Operation and Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. Extra Carpet Tiles: Quantity equal to 5 percent of total installed of each color and pattern installed.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Tile Carpeting:
 - 1. Mohawk Group: [HYPERLINK "http://www.mohawkgroup.com/#sle"www.mohawkgroup.com](http://www.mohawkgroup.com/#sle).

2.02 MATERIALS

- A. Tile Carpeting, Type CPT-1: , manufactured in one color dye lot.
 - 1. Product: SPATIAL BUILD/ DYNAMIC FLOW GT383 manufactured by MOHAWK
 - 2. Tile Size: 24 BY 24 inch (by mm), nominal.
 - 3. Color: 969 RUSTIC STEEL.
 - 4. Installation Method: Vertical Ashlar

2.03 ACCESSORIES

- A. Carpet Tile Adhesive: Recommended by carpet tile manufacturer; releasable type.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that subfloor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.
- B. Verify that subfloor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to subfloor surfaces.

3.02 PREPARATION

- A. Prepare floor substrates for installation of flooring in accordance with Section 090561.

3.03 INSTALLATION

- A. Starting installation constitutes acceptance of subfloor conditions.
- B. Install carpet tile in accordance with manufacturer's instructions.
- C. Blend carpet from different cartons to ensure minimal variation in color match.
- D. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.
- E. Lay carpet tile in vertical ashlar pattern, with pile direction parallel to next unit, set parallel to building lines.
- F. Fully adhere carpet tile to substrate.
- G. Trim carpet tile neatly at walls and around interruptions.
- H. Complete installation of edge strips, concealing exposed edges.

3.04 CLEANING

- A. Remove excess adhesive without damage, from floor, base, and wall surfaces.
- B. Clean and vacuum carpet surfaces.

END OF SECTION

CONSTRUCTION DOCUMENTS

STATE OF ALASKA

49TH

DAVE JAMES DREHER

A-14794

Registered Professional Engineer

04/21/26

Burkhart Croft

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MUNICIPALITY OF ANCHORAGE

FIRE STATION 6 OFFICE RENOVATION

ANCHORAGE, ALASKA

DATE: 04/21/26

DRAWN: MCL, ALR

CHECKED: DJD

PROJECT: 2213.32

DRAWING TITLE: SPECIFICATIONS

REVISIONS:

SHEET NO: A004

SECTION 099000 - PAINTING AND COATING

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Interior painting and coating systems.
- C. Scope:
 - 1. Finish surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
 - a. Interior:
 - 1) Metal: Structural steel columns, joists, trusses, beams, miscellaneous and ornamental iron, structural iron, and other ferrous metal.
 - 2) Drywall: Walls, ceilings, gypsum board, and similar items.

1.04 SUBMITTALS

- A. Product Data: Provide complete list of products to be used, with the following information for each:
 - 1. Product characteristics.
 - 2. Surface preparation instructions and recommendations.
 - 3. Primer requirements and finish specification.
 - 4. Storage and handling requirements and recommendations.
 - 5. Application methods.
 - 6. Clean-up information.
- B. Samples: Submit four paper draw down samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
- C. Applicator's qualification statement.
- D. Maintenance Data: Submit coating maintenance manual including finish schedule showing where each product/color/finish was used, product technical data sheets, safety data sheets (SDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 016000 - Product Requirements for additional provisions.
 - 2. Extra Paint and Finish Materials: 1 gallon (4 L) of each color; from the same product run, store where directed.
 - 3. Label each container with color in addition to manufacturer's label.

1.01 QUALITY ASSURANCE

- A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum 3 years experience and approved by manufacturer.

1.02 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, product name, product code, color designation, VOC content, batch date, environmental handling, surface preparation, application, and use instructions.
- C. Paint Materials: Store at a minimum of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.
- D. Handling: Maintain a clean, dry storage area to prevent contamination or damage to materials.

1.03 FIELD CONDITIONS

- A. Do not apply materials when environmental conditions are outside the ranges required by manufacturer.
- B. Follow manufacturer's recommended procedures for producing the best results, including testing substrates, moisture in substrates, and humidity and temperature limitations.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis of Design Products: Subject to compliance with requirements, provide Sherwin-Williams Company (The) products indicated:www.sherwin-williams.com

2.02 PAINTINGS AND COATINGS

- A. General:
 - 1. Provide factory-mixed coatings unless otherwise indicated.
 - 2. Do not reduce, thin, or dilute coatings or add materials to coatings unless specifically indicated in manufacturer's instructions.
- B. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

2.03 PAINT SYSTEMS - INTERIOR

- A. Metal: Structural steel columns, joists, trusses, beams, miscellaneous and ornamental iron, structural iron, and ferrous metal.
 - 1. Primer: S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series.
 - 2. First Coat: S-W ProClassic Waterborne Acrylic Gloss Enamel, B21-2100 Series.
 - 3. Second Coat: ProClassic Waterborne Acrylic Gloss Enamel, B21-2100 Series.
- B. Drywall: Walls, ceilings, gypsum board, and similar items.
 - 1. Primer: S-W ProMar 200 Zero VOC Latex Primer, B28W2600.
 - 2. First coat: S-W ProMar 200 Zero VOC Latex Primer, B31-2600 Series.
 - 3. Second coat: S-W ProMar 200 Zero VOC Latex Primer, B31-2600 Series

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- C. Test shop-applied primer for compatibility with subsequent cover materials.

3.02 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Gypsum Board: Fill minor defects with filler compound; sand smooth and remove dust prior to painting.
- D. Ferrous Metal:
 - 1. Solvent clean according to SSPC-SP 1.
 - 2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Prime bare steel surfaces.
 - 3. Remove rust, loose mill scale, and other foreign substances using methods recommended by paint manufacturer and blast cleaning in accordance with SSPC-SP 6/NACE No.3. Protect from corrosion until coated.

3.03 APPLICATION

- A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. Apply products in accordance with manufacturer's written instructions.
- C. Apply coatings at spread rate required to achieve manufacturer's recommended dry film thickness.
- D. Regardless of number of coats specified, apply additional coats until complete hide is achieved.

3.04 PRIMING

- A. Apply primer to all surfaces unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.
- B. Primers specified in painting schedules may be omitted on items factory primed or factory finished items if acceptable to top coat manufacturers.

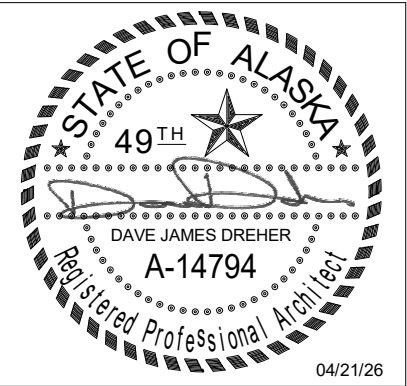
3.05 CLEANING

- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
- B. Clean surfaces immediately of overspray, splatter, and excess material.
- C. After coating has cured, clean and replace finish hardware, fixtures, and fittings previously removed.

3.06 PROTECTION

- A. Protect finished coatings from damage until completion of project.
- B. Touch-up damaged finishes after Substantial Completion.

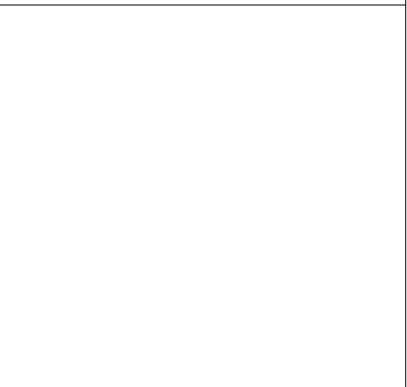
END OF SECTION



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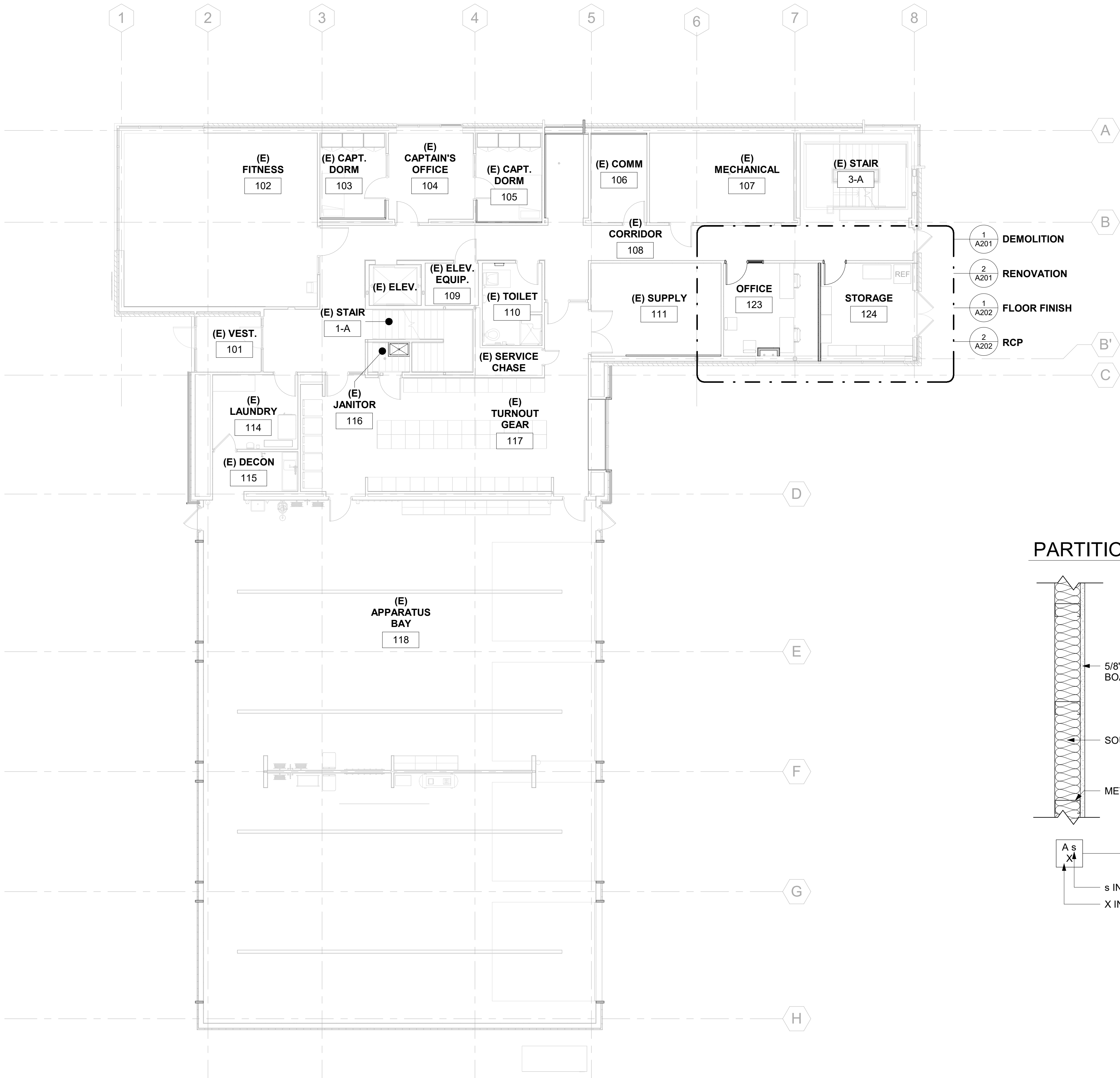
MUNICIPALITY OF ANCHORAGE

FIRE STATION 6 OFFICE
RENOVATION

ANCHORAGE, ALASKA

DATE:	04/21/26
DRAWN:	MCL, ALR
CHECKED:	DJD
PROJECT:	2213.32
DRAWING TITLE:	SPECIFICATIONS
REVISIONS:	
SHEET NO:	A005

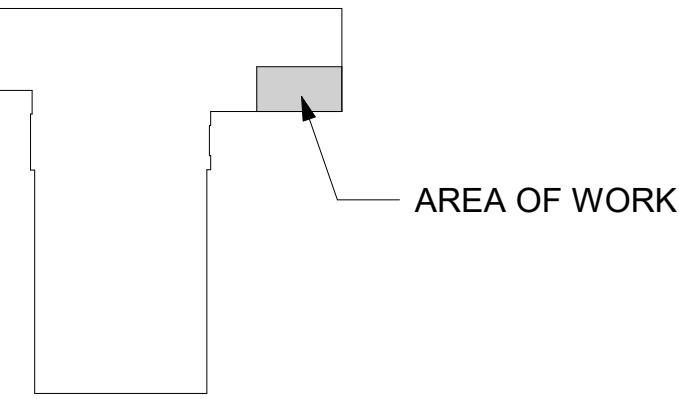
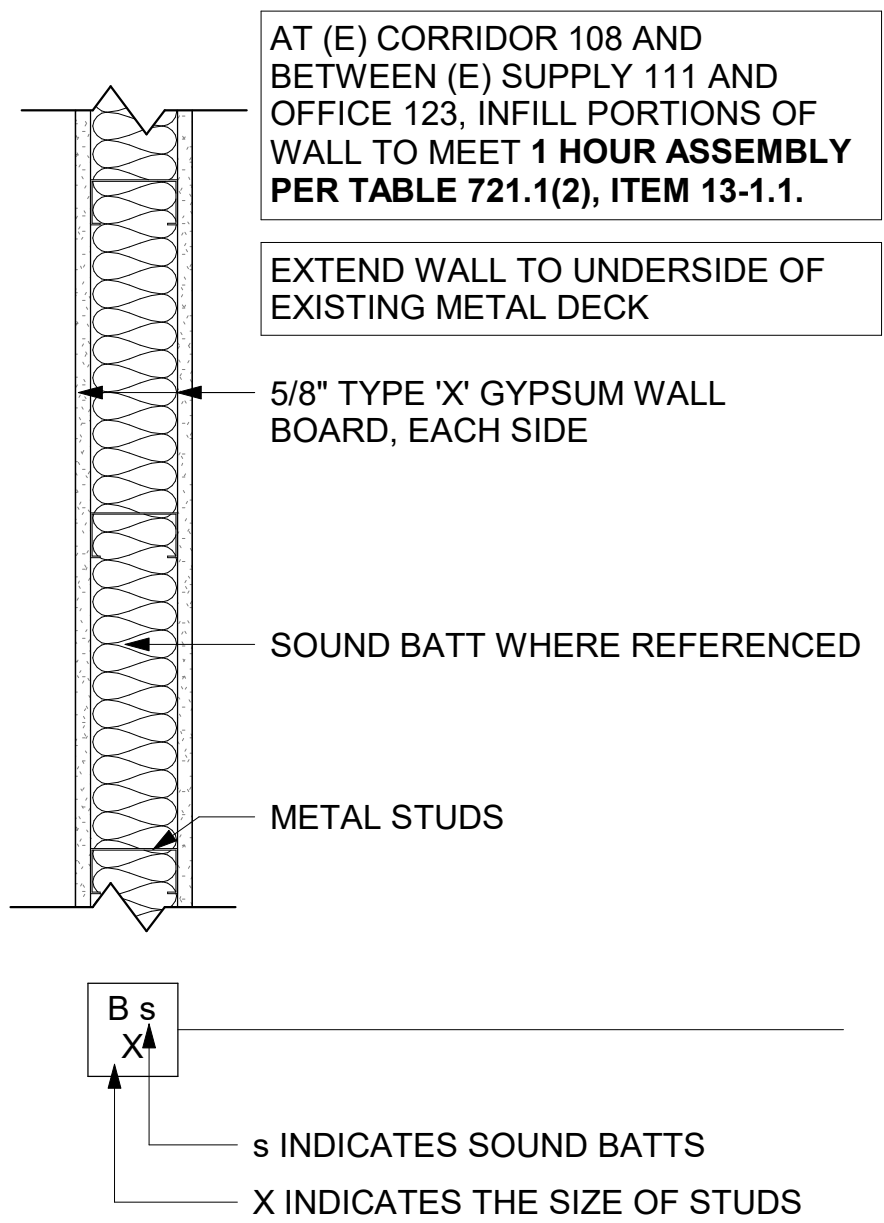
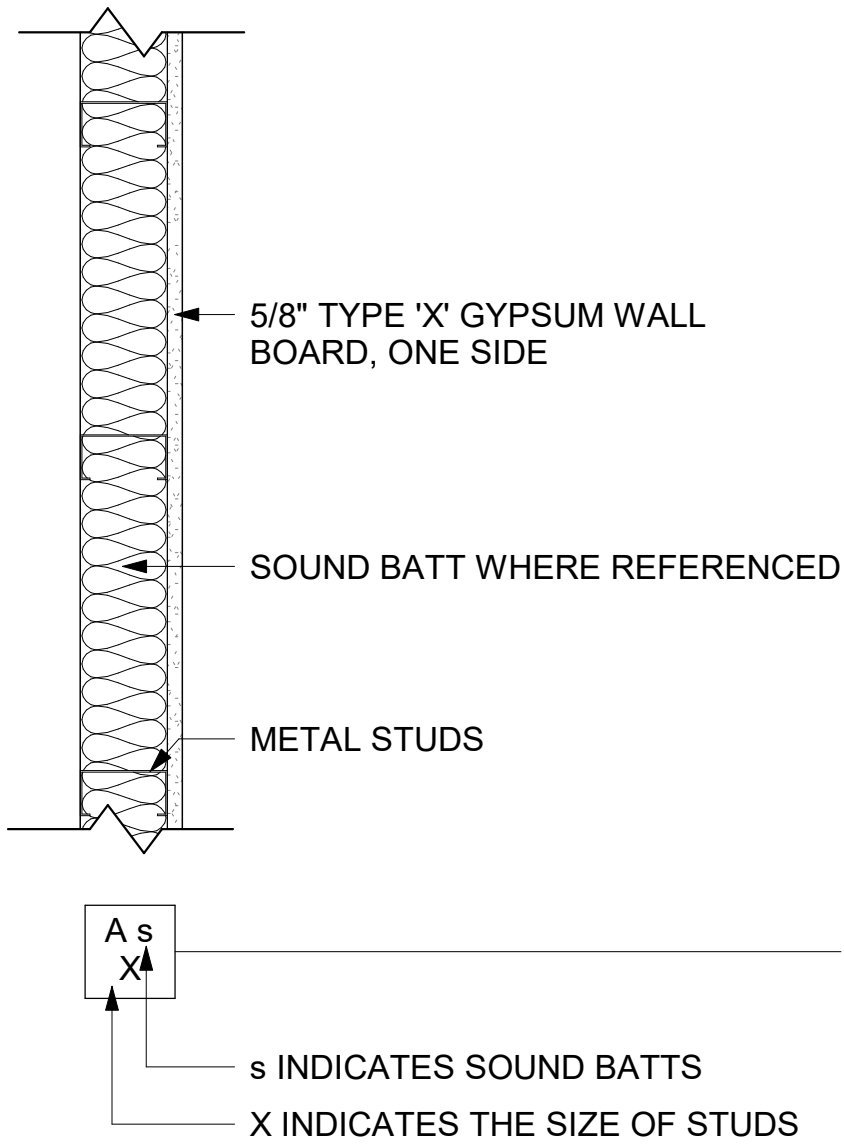
CONSTRUCTION DOCUMENTS



GENERAL DEMOLITION AND FLOOR PLAN NOTES

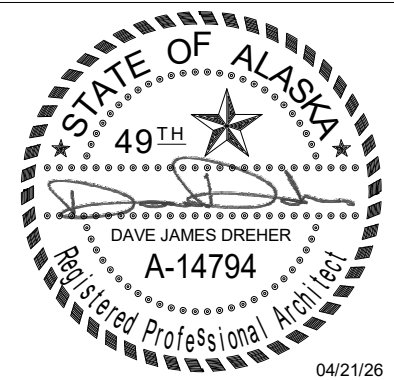
1. PATCH/REPAIR EXISTING CONSTRUCTION IMPACTED BY DEMOLITION.
2. REMOVE ALL (E) LIGHT FIXTURES IN AREA OF WORK - REFER TO ELECTRICAL DRAWINGS
3. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
4. FOR THE DOOR SHOWN TO BE DEMOLISHED - SALVAGE DOOR, DOOR FRAME, AND DOOR HARDWARE - TO BE REUSED IN DIFFERENT LOCATION, REFER TO DOOR SCHEDULE
5. REMOVE ALL WALL ACCESSORIES AND FURNITURE. SALVAGE TO OWNER.
6. IF THERE IS NO EXISTING FLOOR FINISH OR BASE, PREPARE FLOOR AS REQUIRED TO RECEIVE NEW FINISH
7. DEMOLISH ALL ROOM SIGNAGE
8. GRAPHICS: LINE WEIGHTS, DRAWING REFERENCES, CALLOUTS, ETC FROM EXISTING DRAWING BACKGROUND FOR REFERENCE NOT APPLICABLE OUTSIDE OF WORK AREA.
9. REFER TO SHEET G102 FOR ADDITIONAL LIFE SAFETY AND SECURITY GENERAL NOTES
10. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO START OF WORK
11. DIMENSIONS: ALL DIMENSIONS ARE TAKEN FROM FACE OF METAL/ WOOD STUD, GRID LINE, OR FACE OF CONCRETE/ MASONRY WALL UNLESS NOTED OTHERWISE. ALL DIMENSIONS SHALL BE TREATED EQUALLY WITHOUT ANY HIERARCHY UNLESS NOTED OTHERWISE.
12. ALL FURNITURE SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI).

PARTITION WALL TYPES



KEY PLAN

1 REFERENCE FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"

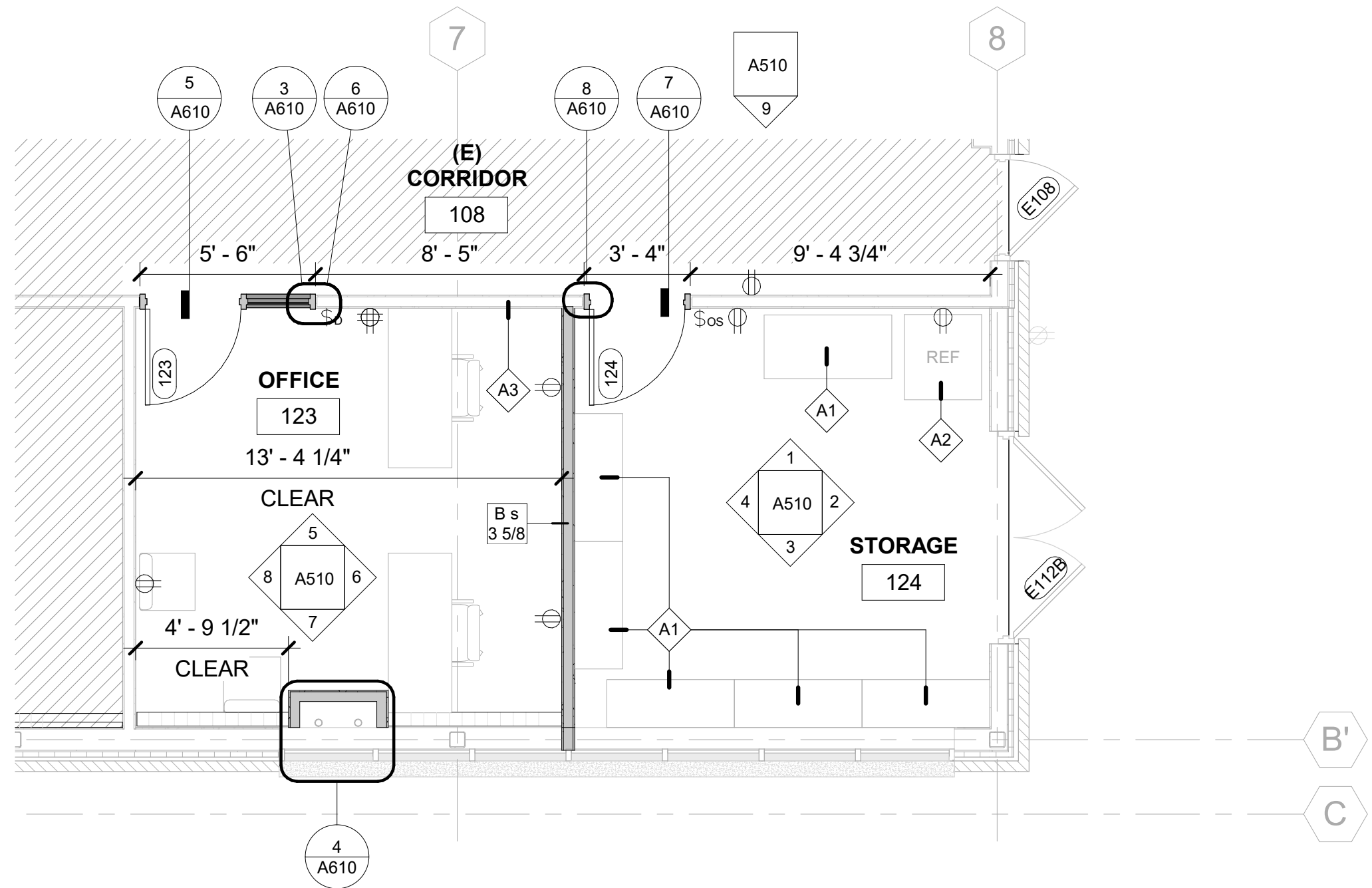


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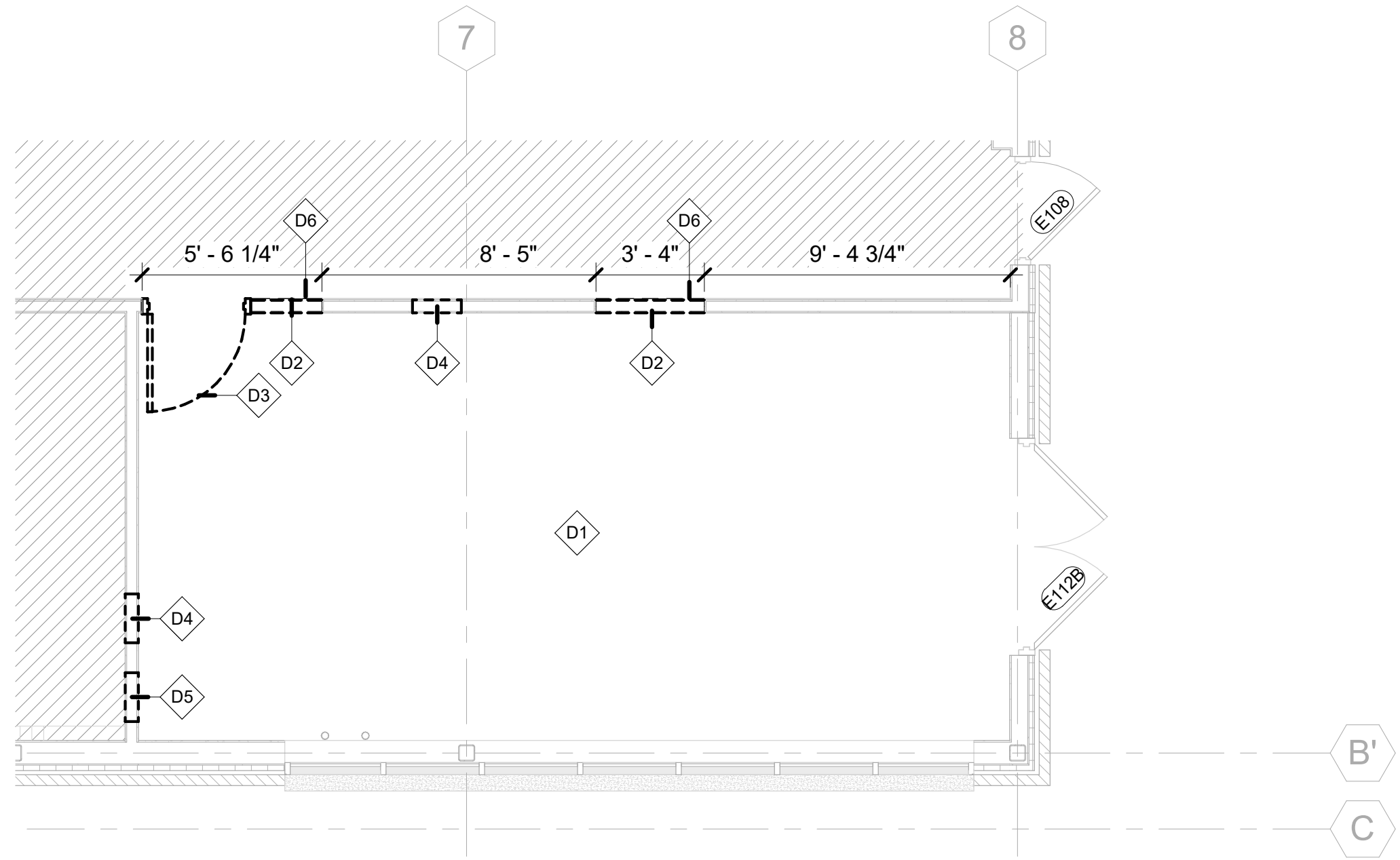
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FIRE STATION 6 OFFICE RENOVATION
ANCHORAGE, ALASKA

DATE:	04/21/26
DRAWN:	MCL, ALR
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DRAWING TITLE:	OVERALL REFERENCE PLAN
REVISIONS:	
SHEET NO:	A101

CONSTRUCTION DOCUMENTS



2 FIRST FLOOR PLAN - ENLARGED
[1/A101] Scale: 1/4" = 1'-0"



1 DEMOLITION FIRST FLOOR PLAN - ENLARGED
[1/A101] Scale: 1/4" = 1'-0"

GENERAL DEMOLITION AND FLOOR PLAN NOTES

- PATCH/REPAIR EXISTING CONSTRUCTION IMPACTED BY DEMOLITION.
- REMOVE ALL (E) LIGHT FIXTURES IN AREA OF WORK - REFER TO ELECTRICAL DRAWINGS
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- FOR THE DOOR SHOWN TO BE DEMOLISHED - SALVAGE DOOR, DOOR FRAME, AND DOOR HARDWARE - TO BE REUSED IN DIFFERENT LOCATION, REFER TO DOOR SCHEDULE
- REMOVE ALL WALL ACCESSORIES AND FURNITURE. SALVAGE TO OWNER.
- IF THERE IS NO EXISTING FLOOR FINISH OR BASE, PREPARE FLOOR AS REQUIRED TO RECEIVE NEW FINISH
- DEMOLISH ALL ROOM SIGNAGE
- GRAPHICS: LINE WEIGHTS, DRAWING REFERENCES, CALLOUTS, ETC FROM EXISTING DRAWING BACKGROUND FOR REFERENCE NOT APPLICABLE OUTSIDE OF WORK AREA.
- REFER TO SHEET G102 FOR ADDITIONAL LIFE SAFETY AND SECURITY GENERAL NOTES
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO START OF WORK
- DIMENSIONS: ALL DIMENSIONS ARE TAKEN FROM FACE OF METAL/ WOOD STUD, GRID LINE, OR FACE OF CONCRETE/ MASONRY WALL UNLESS NOTED OTHERWISE. ALL DIMENSIONS SHALL BE TREATED EQUALLY WITHOUT ANY HIERARCHY UNLESS NOTED OTHERWISE.
- ALL FURNITURE SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI). COORDINATE WITH OWNER.
- OWNER SHALL REMOVE AND STORE ALL FURNITURE, STORAGE SHELVING, AND EQUIPMENT, PRIOR TO CONSTRUCTION START.

DEMOLITION PLAN LEGEND

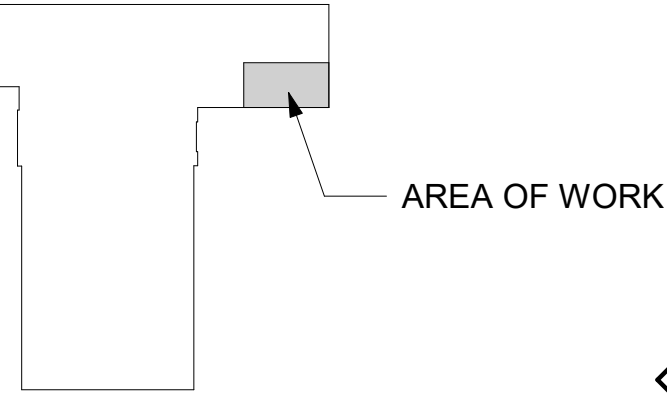
- NO WORK IN THIS AREA
- DEMOLISH SINGLE DOORS
- DEMOLISH WALL, FOR NEW OPENINGS
- EXISTING DOOR TO REMAIN

DEMOLITION KEY NOTES

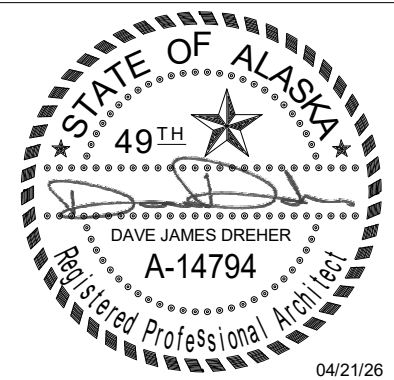
- DEMOLISH (E) WALL BASE THROUGHOUT, PREPARE WALL FOR NEW FINISHES
- DEMOLISH WALL FOR (N) OPENING PER SCHEDULE
- REMOVE DOOR, FRAME AND HARDWARE, SALVAGE DOOR AND FRAME FOR REINSTALLATION
- DEMOLISH (E) GRILL - REFER TO MECHANICAL DRAWINGS
- DEMOLISH GYPSUM BOARD WALL AS REQUIRED TO INSTALL NEW MECHANICAL SYSTEM - REFER TO MECHANICAL DRAWINGS
- CORRIDOR SIDE: CUT AND REMOVE EXISTING RUBBER BASE TO ALLOW FOR NEW OPENING. PROTECT ADJACENT PORTION OF CONSTRUCTION.

ARCHITECTURAL KEY NOTES

- EXISTING STORAGE SHELVING, OWNER FURNISHED CONTRACTOR INSTALLED
- REFRIGERATOR, OWNER FURNISHED CONTRACTOR INSTALLED
- PATCH AND REPAIR EXISTING WALL AS REQUIRED TO ACCOMMODATE NEW DUCTWORK. MATCH ADJACENT CONSTRUCTION/PAINT. MUST MEET RATED CONSTRUCTION SIMILAR TO WALL TYPE B - REFER TO PARTITION TYPES AND MECHANICAL DRAWINGS



KEY PLAN



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MUNICIPALITY OF ANCHORAGE
**FIRE STATION 6 OFFICE
RENOVATION**
ANCHORAGE, ALASKA

DATE: 04/21/26

DRAWN: MCL, ALR

CHECKED: DJD

PROJECT: 2213.32

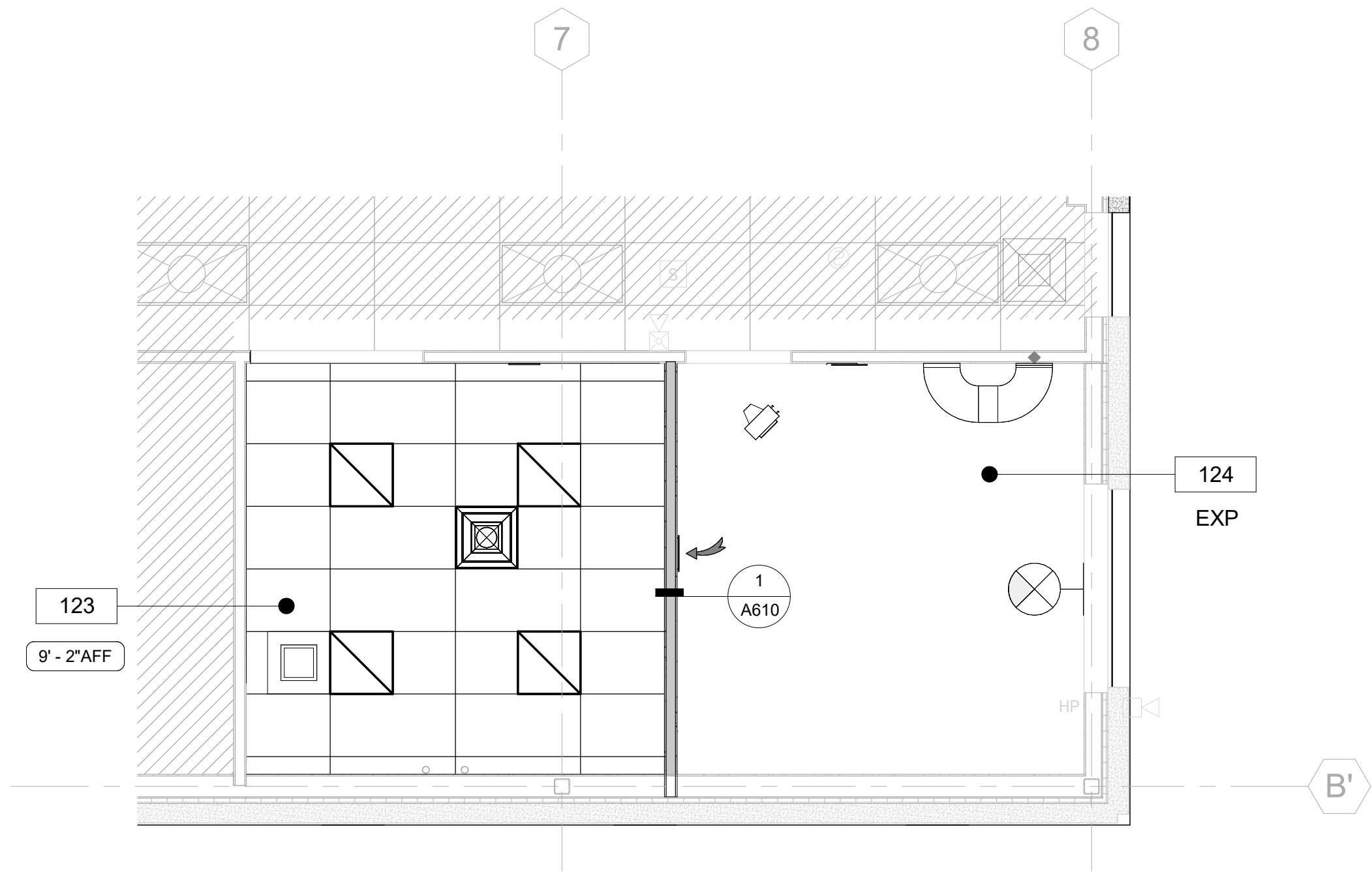
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ENLARGED PLANS

REVISIONS:

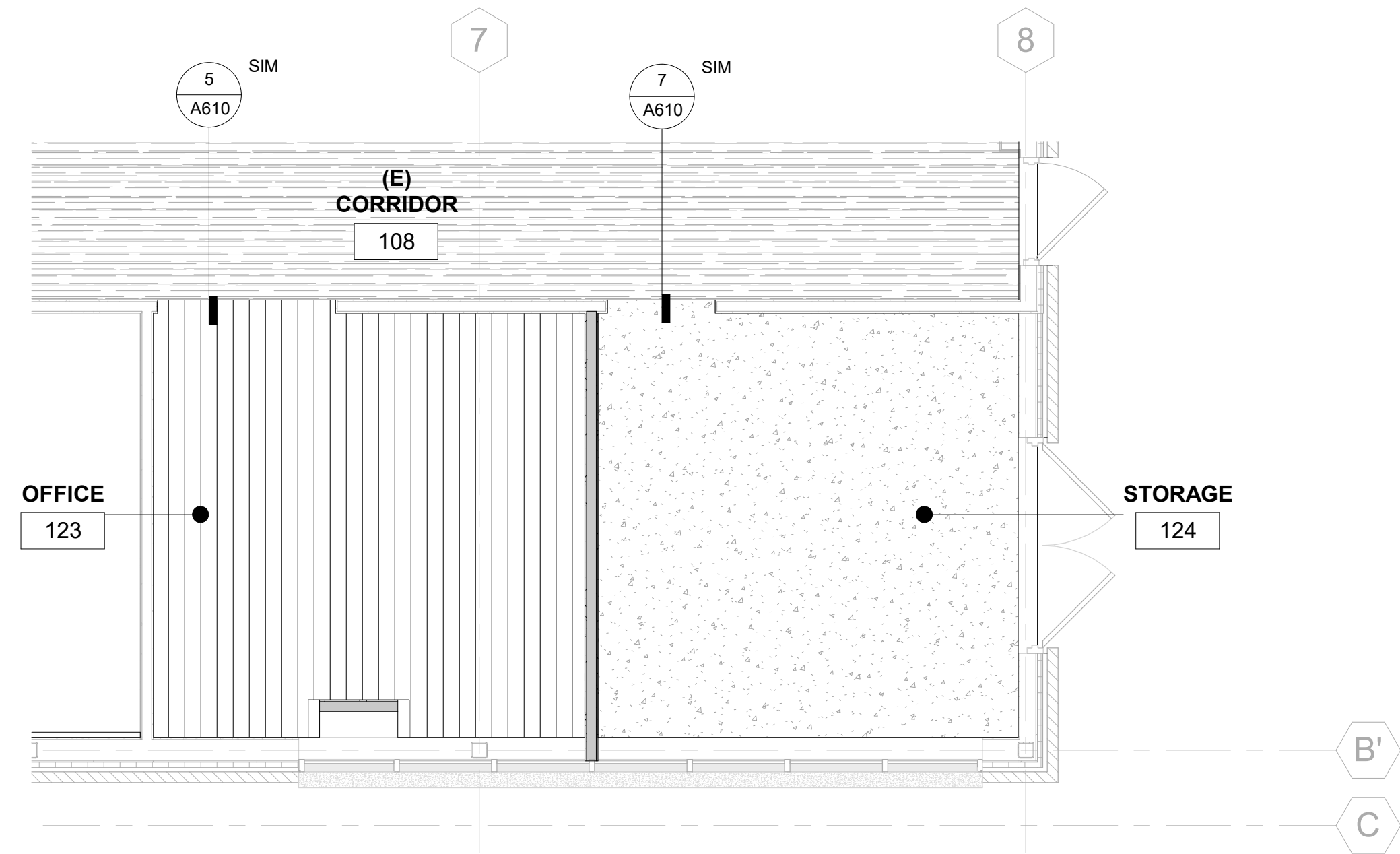
SHEET NO:

A201

CONSTRUCTION DOCUMENTS

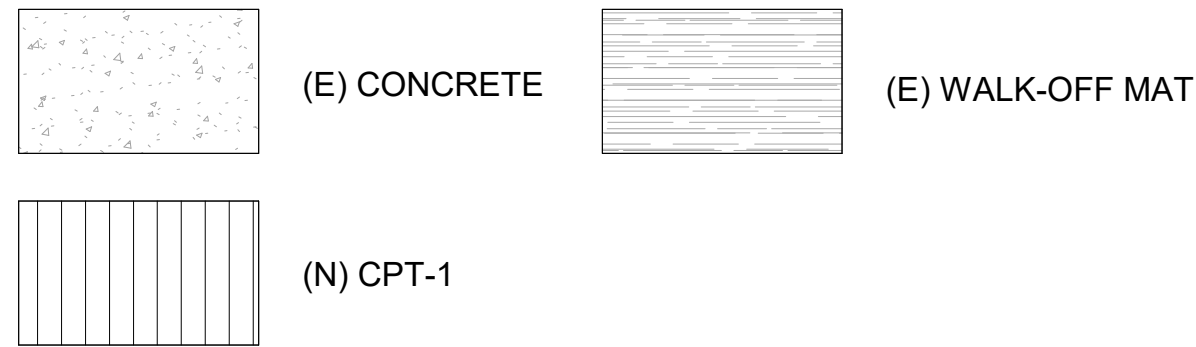


2 FIRST FLOOR REFLECTED CEILING PLAN - ENLARGED
[1/A101] Scale: 1/4" = 1'-0"



1 FIRST FLOOR FINISH PLAN - ENLARGED
[1/A101] Scale: 1/4" = 1'-0"

FLOOR FINISH LEGEND



GENERAL FLOOR PLAN NOTES

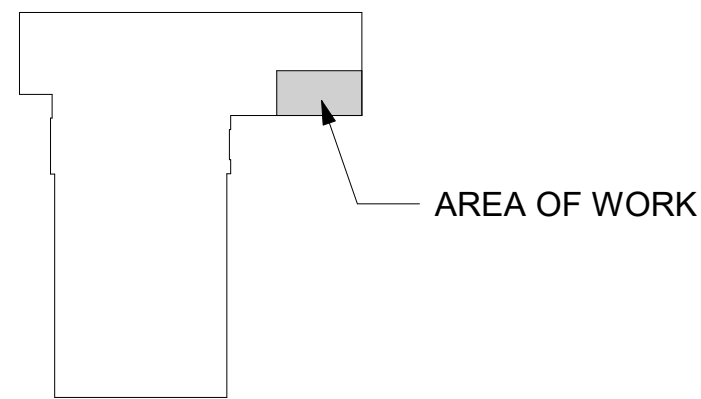
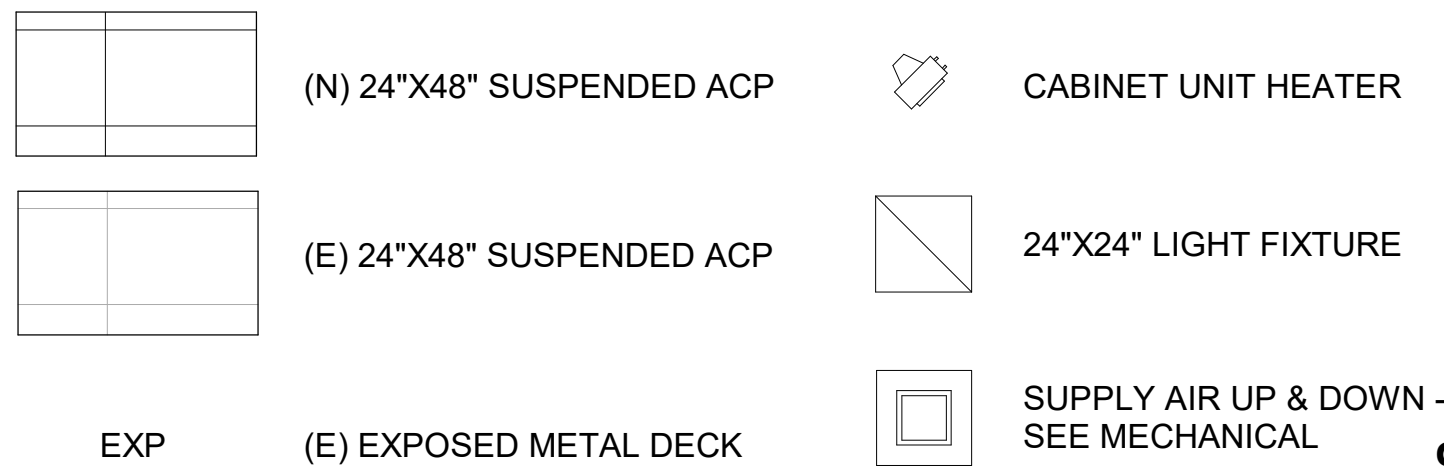
1. GRAPHICS: LINE WEIGHTS, DRAWING REFERENCES, CALLOUTS, ETC FROM EXISTING DRAWING BACKGROUND FOR REFERENCE NOT APPLICABLE OUTSIDE OF WORK AREA.
2. REFER TO SHEET G102 FOR ADDITIONAL LIFE SAFETY AND SECURITY GENERAL NOTES
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO START OF WORK
4. DIMENSIONS: ALL DIMENSIONS ARE TAKEN FROM FACE OF METAL/ WOOD STUD, GRID LINE, OR FACE OF CONCRETE/ MASONRY WALL UNLESS NOTED OTHERWISE. ALL DIMENSIONS SHALL BE TREATED EQUALLY WITHOUT ANY HIERARCHY UNLESS NOTED OTHERWISE.
5. ALL FURNITURE SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI).

REFLECTED CEILING PLAN GENERAL NOTES

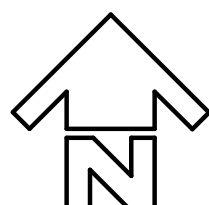
SEISMIC DESIGN CATEGORY D PER IBC FOR ALL ACOUSTICAL CEILINGS:

1. ALL NEW CEILING GRIDS TO COMPLY WITH ASCE 7-16 AND THE REQUIREMENTS LISTED BELOW.
 - A. VERTICAL WIRE CONNECTION DEVICES SHALL BE 90 LBS MINIMUM STRENGTH.
 - B. ALL HANGERS SHALL BE 12-GAUGE @ 4'-0" O.C. (MAX) AND BE 1 IN 6 TO PLUMB. IF OVERHEAD EQUIPMENT PREVENTS 4'-0" SPACING, PROVIDE TRAPEZE WITH VERTICAL HANGERS TO NAVIGATE AROUND OBSTRUCTION.
 - C. PERIMETER VERTICAL HANGERS SHALL BE PROVIDED WITHIN 8" OF WALLS.
 - D. PROVIDE ASCE 7-16 SEISMIC CLIPS AT EACH PERIMETER TEE.
 - a. TWO ADJACENT CEILING EDGES SHALL BE FIXED WITH A SCREW THROUGH BOTH THE TEE AND SEISMIC CLIP AT EVERY TEE. OPPOSING CEILING PERIMETERS SHALL OMIT THE SCREW THROUGH THE TEE.
 - b. EVERY SEISMIC CLIP AT PERIMETER TEE SHALL BE SCREWED THROUGH THE PERIMETER ANGLE WITHOUT EXCEPTION.
 - c. COORDINATE WITH ARCHITECT STRATEGY OF WHICH TWO SIDES IN EACH CEILING -SHALL BE LOOSE OR TIGHT.
 - E. MINIMUM MAIN RUNNER AND CROSS TEE CONNECTION STRENGTH SHALL BE 180 LBS. MINIMUM.
 - F. ALL DIFFUSERS SHALL BE MECHANICALLY FASTENED TO THE GRID PER NEC 410-16 IN TWO LOCATIONS UNLESS SUPPORTED INDEPENDENTLY FROM STRUCTURE ABOVE.
 - G. COORDINATE OVERALL SEISMIC STRATEGY OF ACOUSTICAL CEILING SYSTEMS WITH ARCHITECT.
2. ALL CABLE TRAYS AND ELECTRICAL CONDUIT SHALL BE INDEPENDENTLY SUPPORTED AND NOT CONNECTED TO THE ACOUSTICAL CEILING SYSTEM.

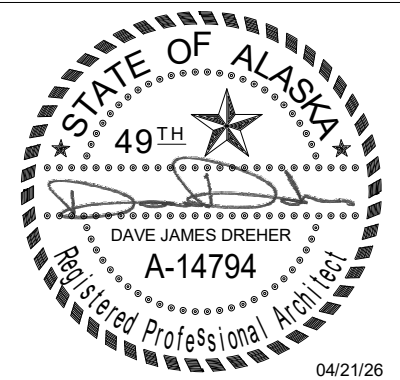
REFLECTED CEILING LEGEND



KEY PLAN



CONSTRUCTION DOCUMENTS



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MUNICIPALITY OF ANCHORAGE
**FIRE STATION 6 OFFICE
RENOVATION**
ANCHORAGE, ALASKA

DATE: 04/21/26

DRAWN: MCL, ALR

CHECKED: DJD

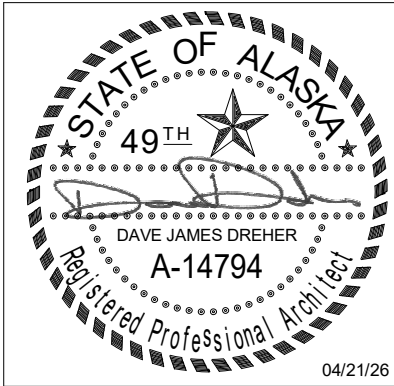
PROJECT: 2213.32

DRAWING TITLE:
ENLARGED PLANS

REVISIONS:

SHEET NO:

A202



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MUNICIPALITY OF ANCHORAGE
**FIRE STATION 6 OFFICE
RENOVATION**
ANCHORAGE, ALASKA

DATE: 04/21/26
DRAWN: MCL, ALR
CHECKED: DJD
PROJECT: 2213.32
DRAWING TITLE:
INTERIOR ELEVATIONS

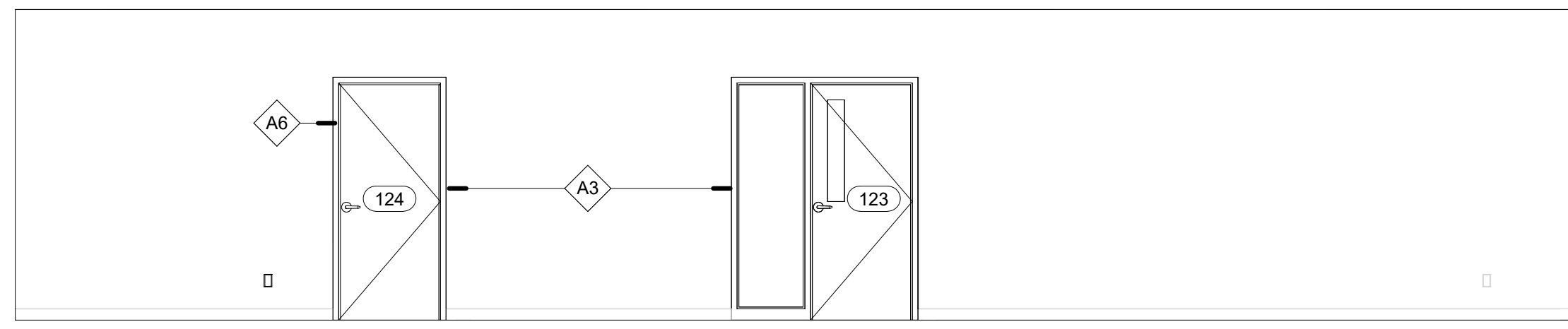
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SHEET NO:
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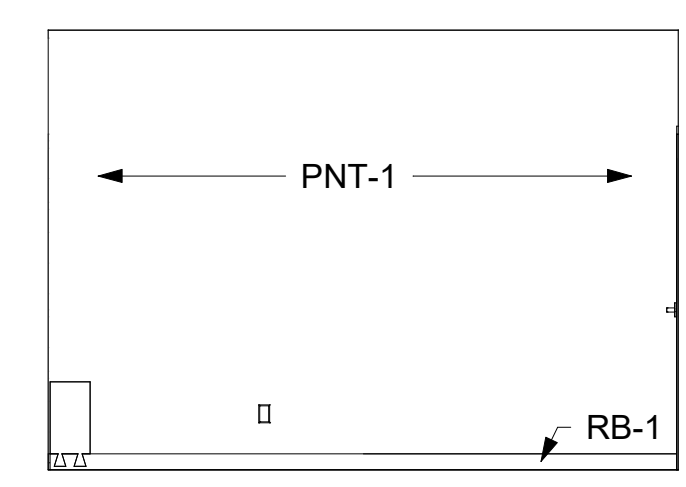
CONSTRUCTION DOCUMENTS

ARCHITECTURAL KEY NOTES

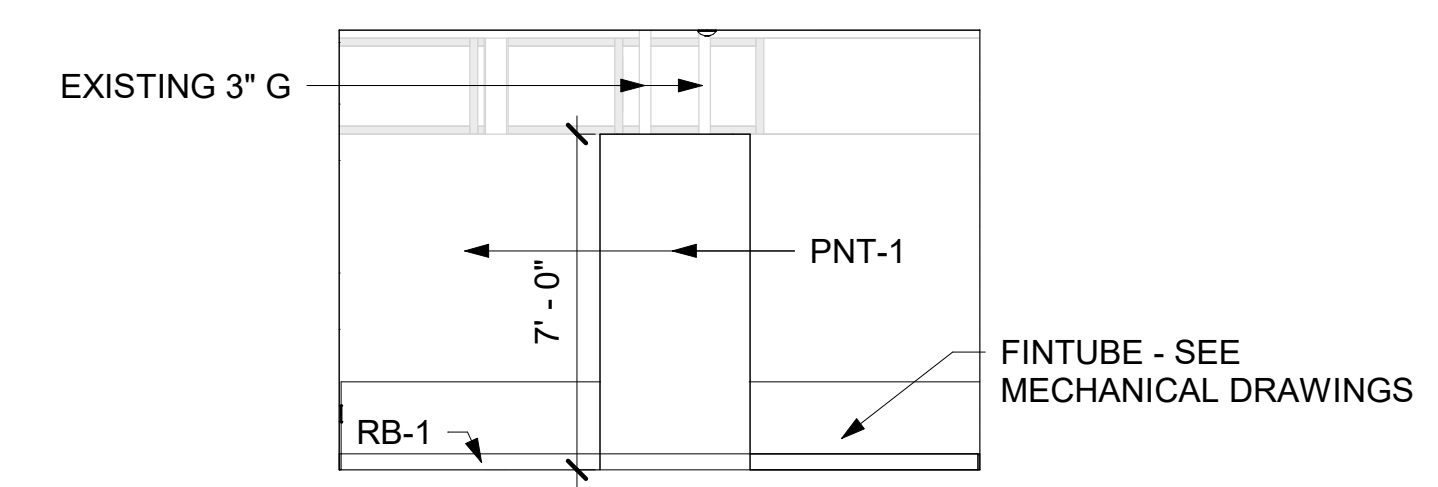
- A1 EXISTING STORAGE SHELVING, OWNER FURNISHED CONTRACTOR INSTALLED
- A2 REFRIGERATOR, OWNER FURNISHED CONTRACTOR INSTALLED
- A3 PATCH AND REPAIR EXISTING WALL AS REQUIRED TO ACCOMMODATE NEW DUCTWORK. MATCH ADJACENT CONSTRUCTION/PAINT, MUST MEET RATED CONSTRUCTION SIMILAR TO WALL TYPE B - REFER TO PARTITION TYPES AND MECHANICAL DRAWINGS
- A5 TOUCH UP PAINT AS REQUIRED TO CREATE CONSISTENT FINISHED PRODUCT. PAINT TO MATCH EXISTING CONDITIONS
- A6 REPAINT EXISTING FRAME. MATCH EXISTING CONDITIONS



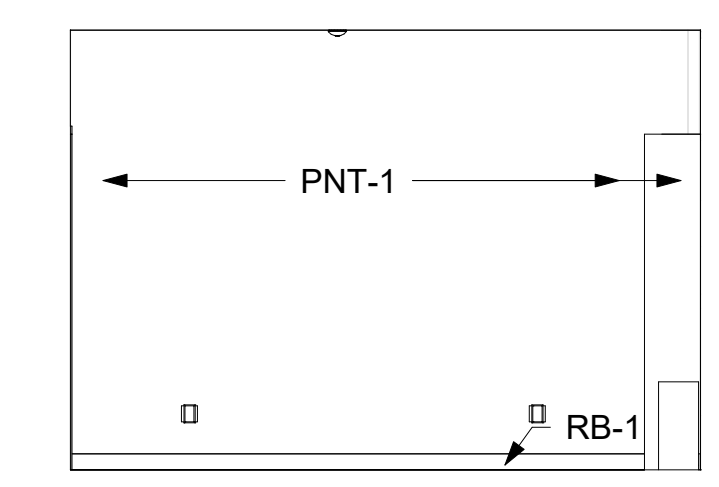
9 108 CORRIDOR - S
[2/A201] Scale: 1/4" = 1'-0"



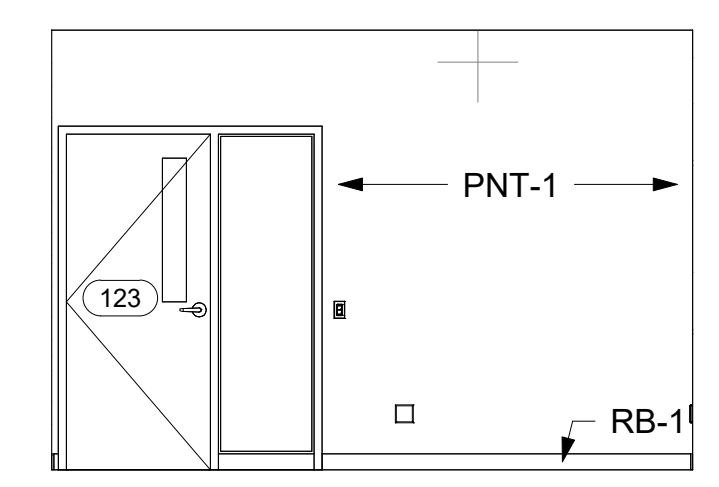
8 123 OFFICE - W
[2/A201] Scale: 1/4" = 1'-0"



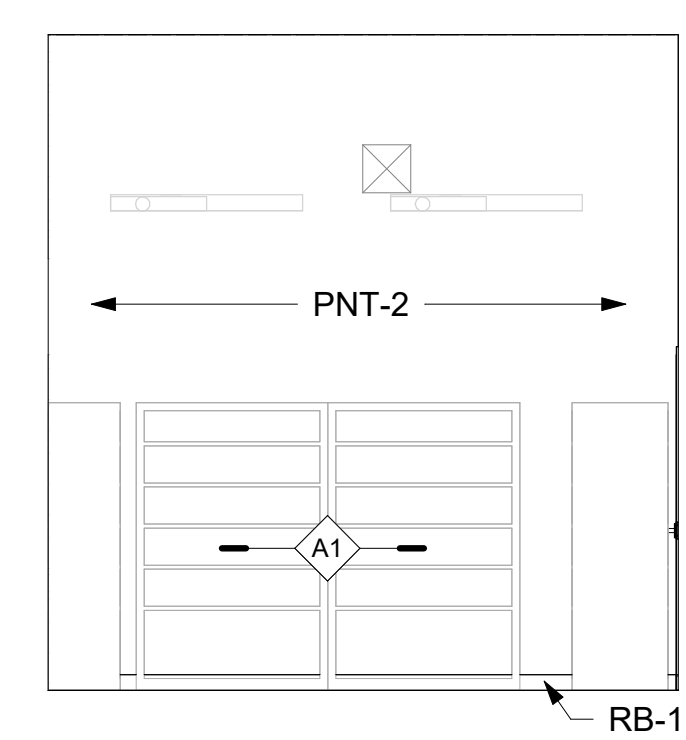
7 123 OFFICE - S
[2/A201] Scale: 1/4" = 1'-0"



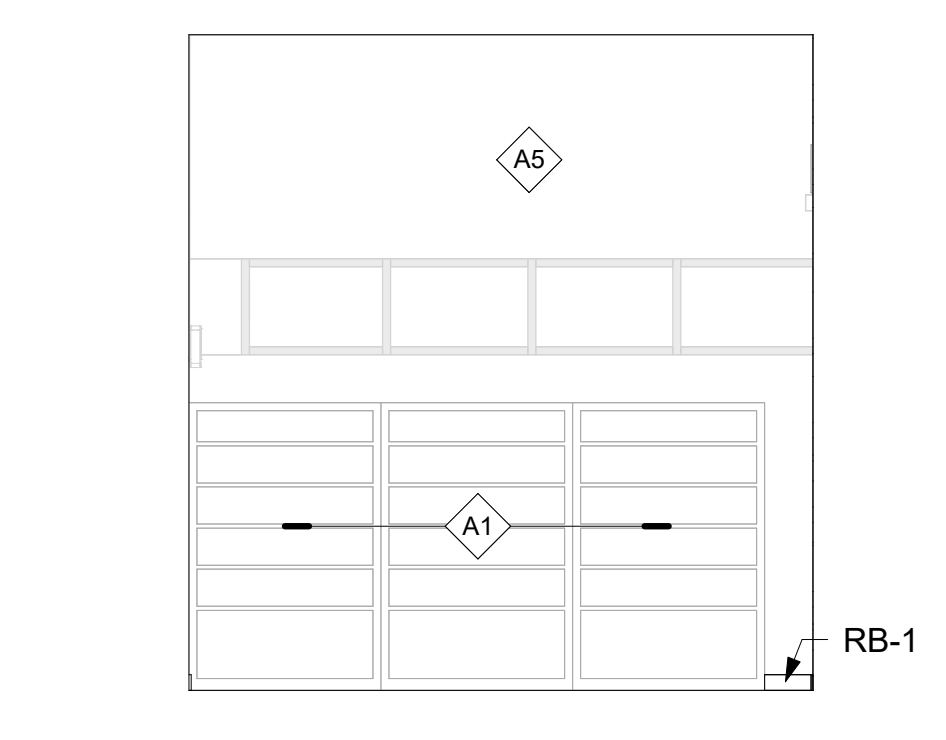
6 123 OFFICE - E
[2/A201] Scale: 1/4" = 1'-0"



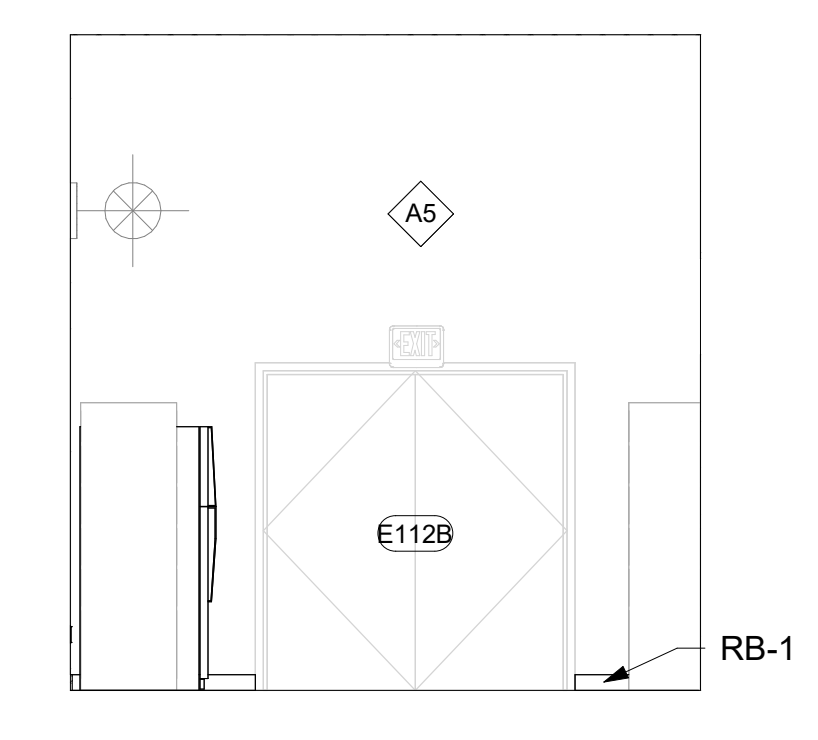
5 123 OFFICE - N
[2/A201] Scale: 1/4" = 1'-0"



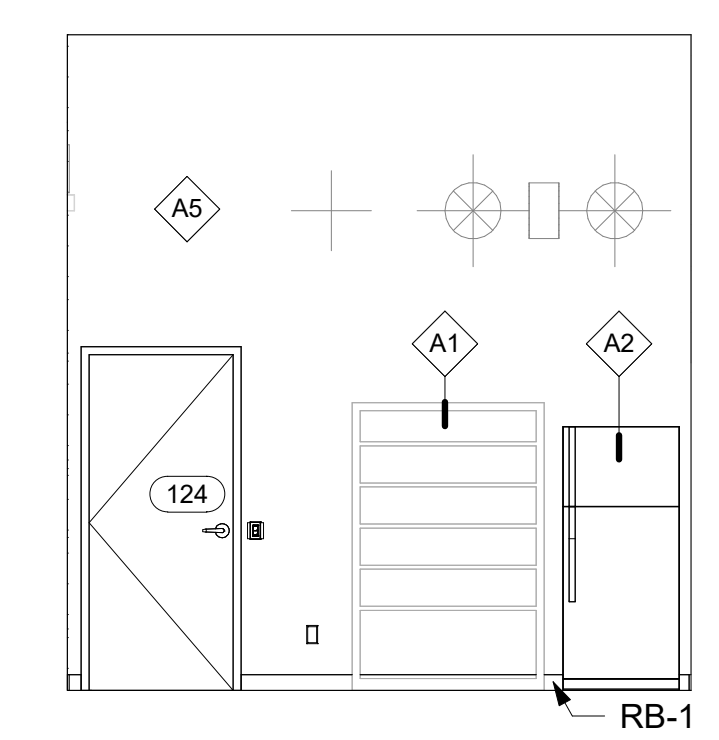
4 124 STORAGE - W
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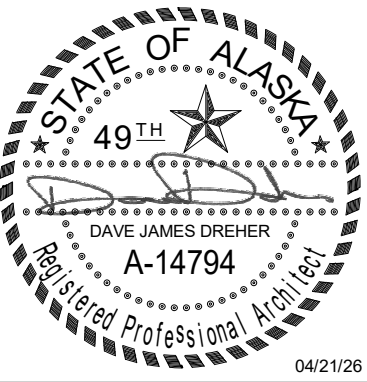
3 124 STORAGE - S
[2/A201] Scale: 1/4" = 1'-0"



2 124 STORAGE - E
[2/A201] Scale: 1/4" = 1'-0"



1 124 STORAGE - N
[2/A201] Scale: 1/4" = 1'-0"

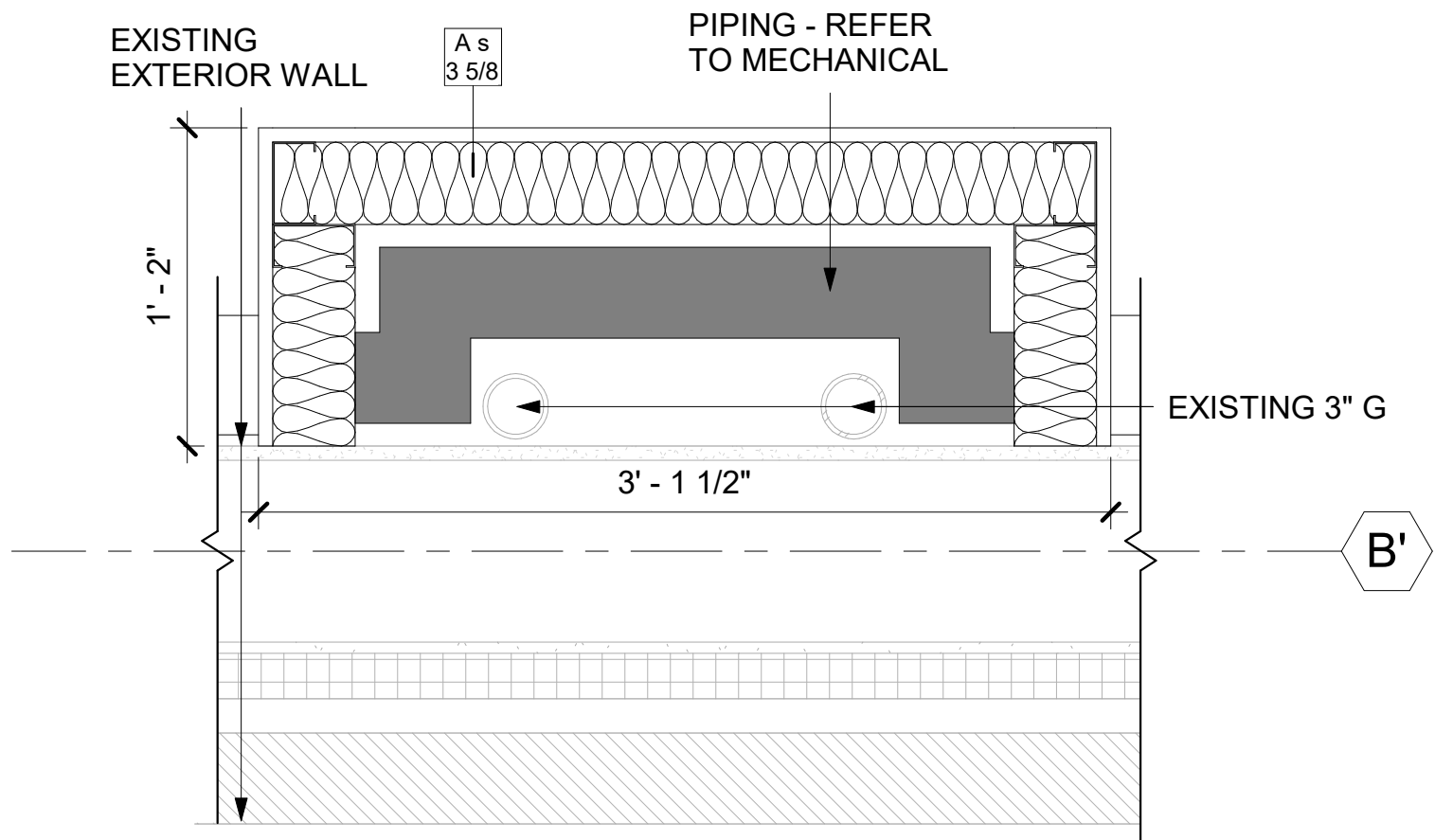


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MUNICIPALITY OF ANCHORAGE
**FIRE STATION 6 OFFICE
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ANCHORAGE, ALASKA

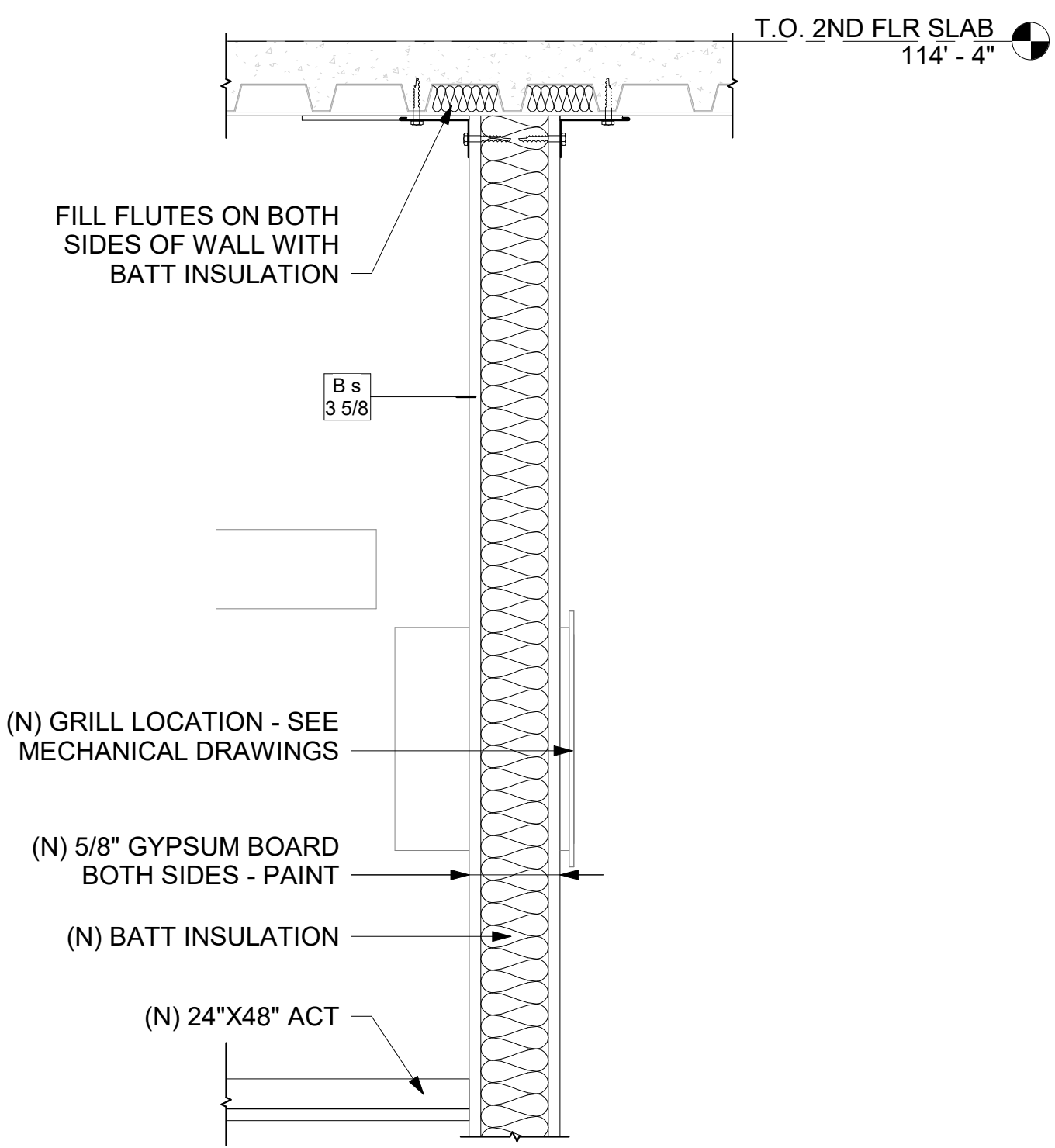
DATE:	04/21/26
DRAWN:	MCL, ALR
CHECKED:	DJD
PROJECT:	2213.32
DRAWING TITLE:	INTERIOR DETAILS
REVISIONS:	
SHEET NO:	A610

CONSTRUCTION DOCUMENTS



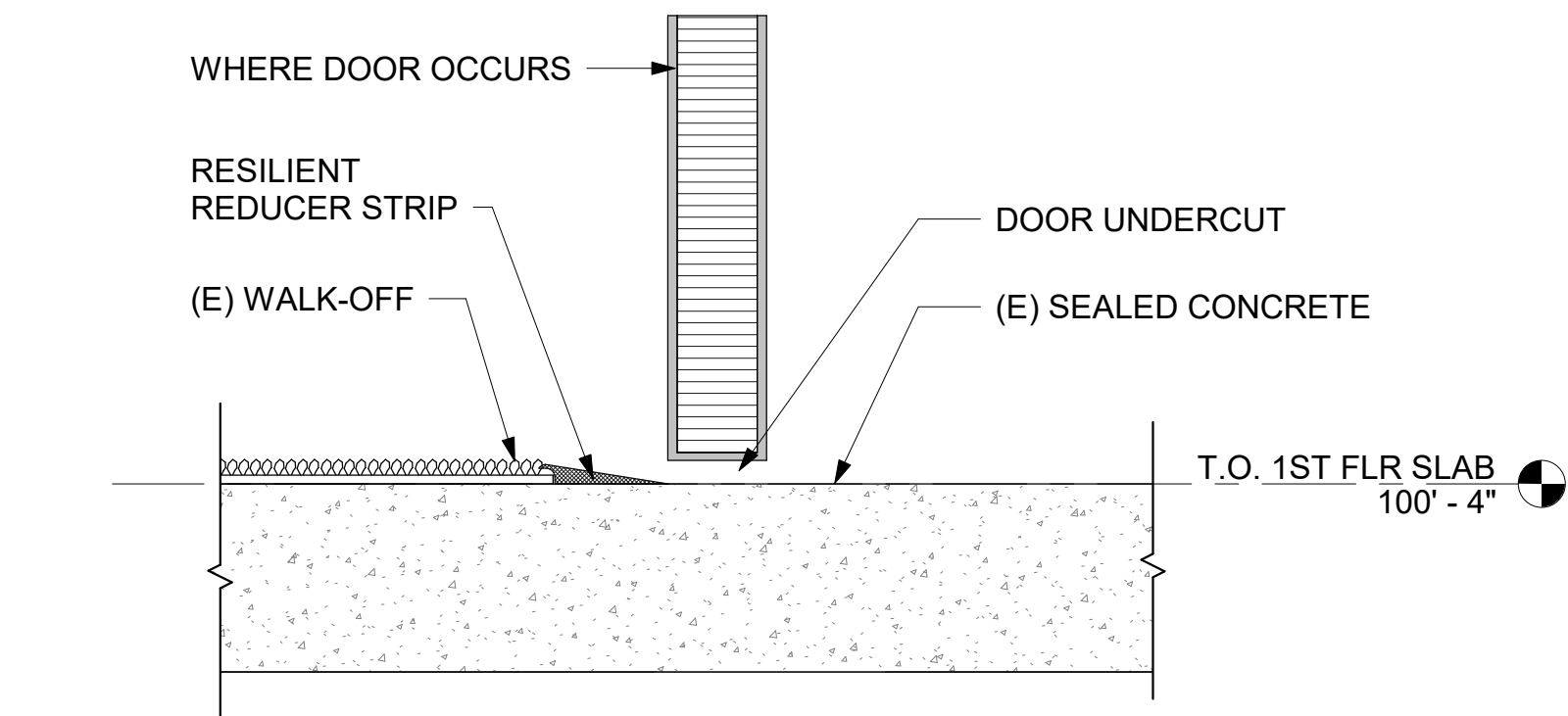
4 DETAIL AT EXISTING GAS PIPES

[2/A201] Scale: 1 1/2" = 1'-0"



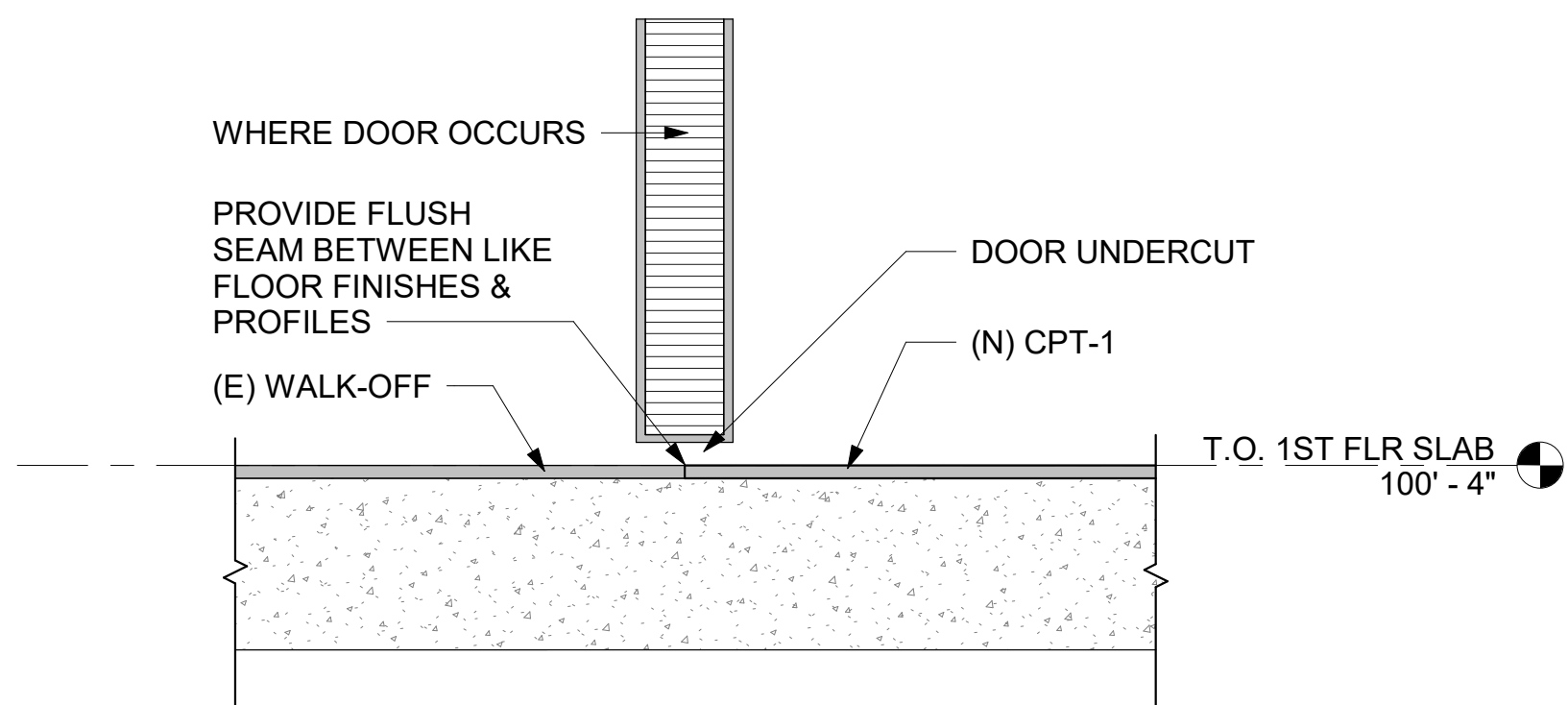
1 WALL @ METAL DECKING

[2/A202] Scale: 1 1/2" = 1'-0"



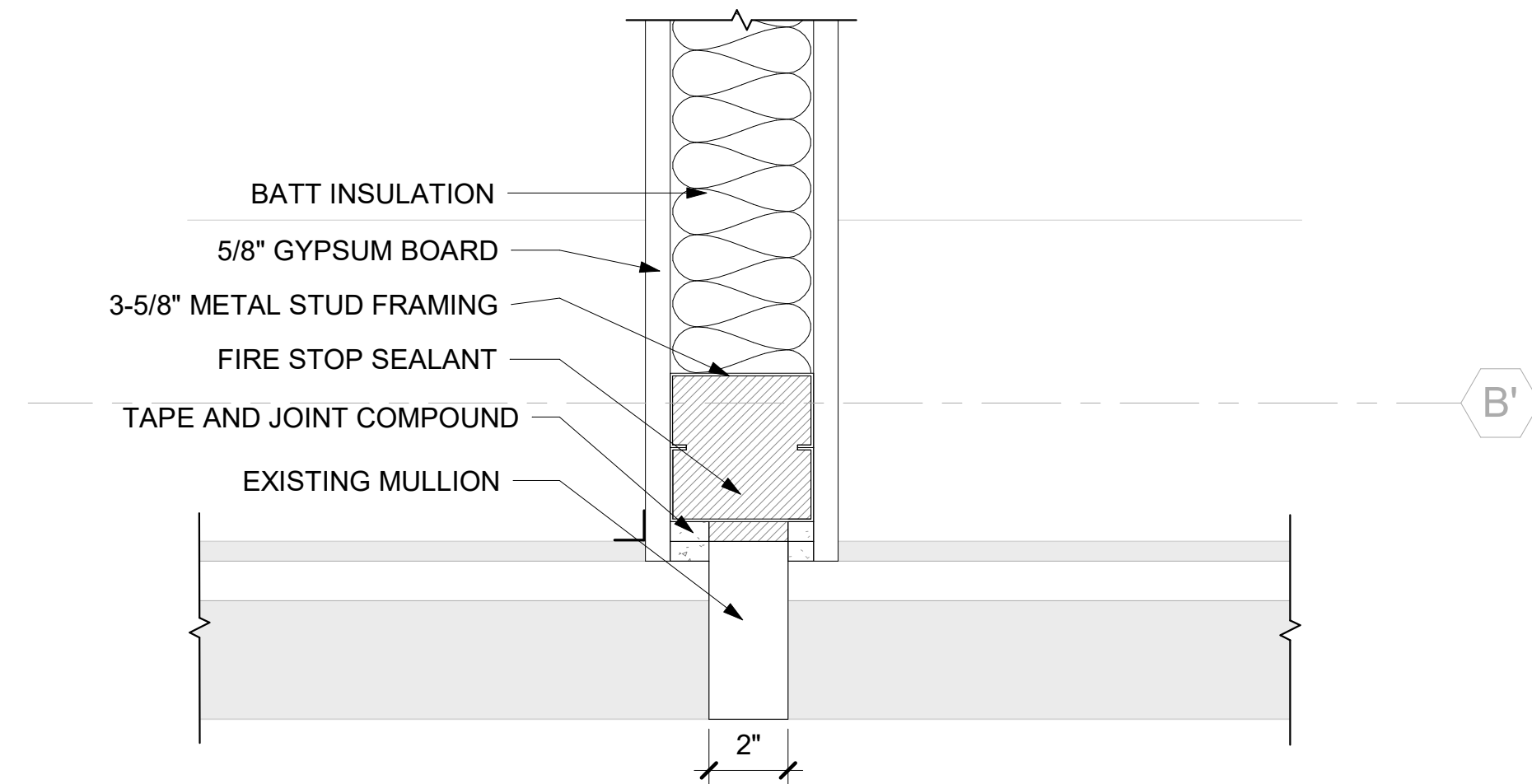
7 FLOOR TRANSITION DETAIL - WO-CONC

[2/A201] Scale: 3" = 1'-0"



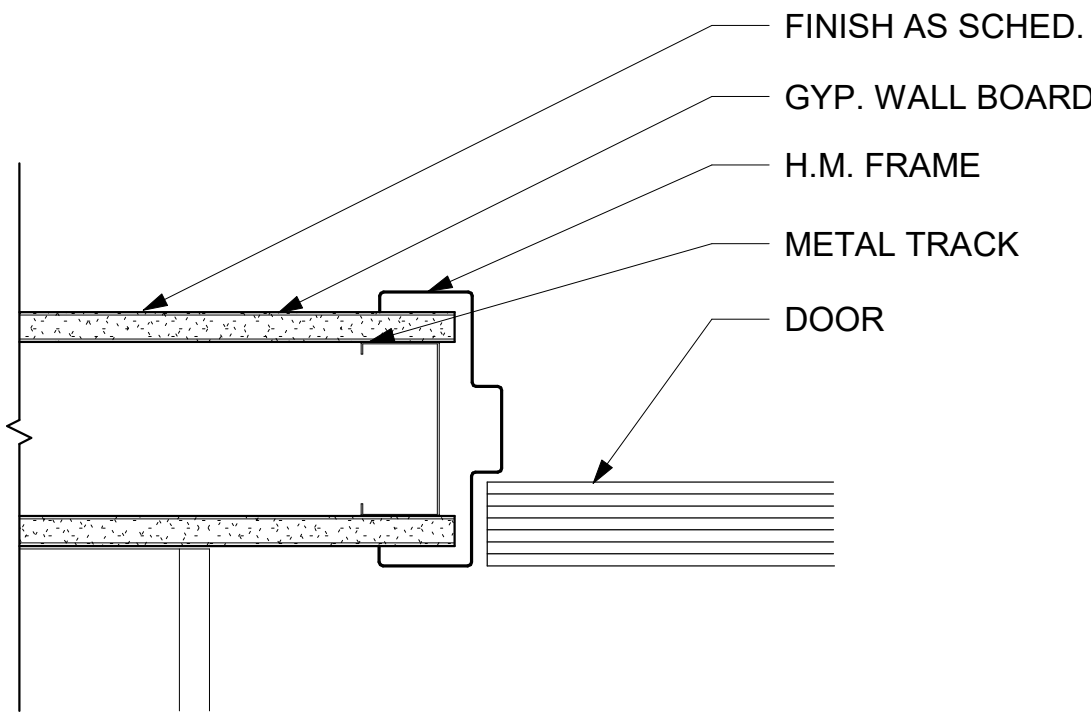
5 FLOOR TRANSITION DETAIL - WO-CPT

[2/A201] Scale: 3" = 1'-0"



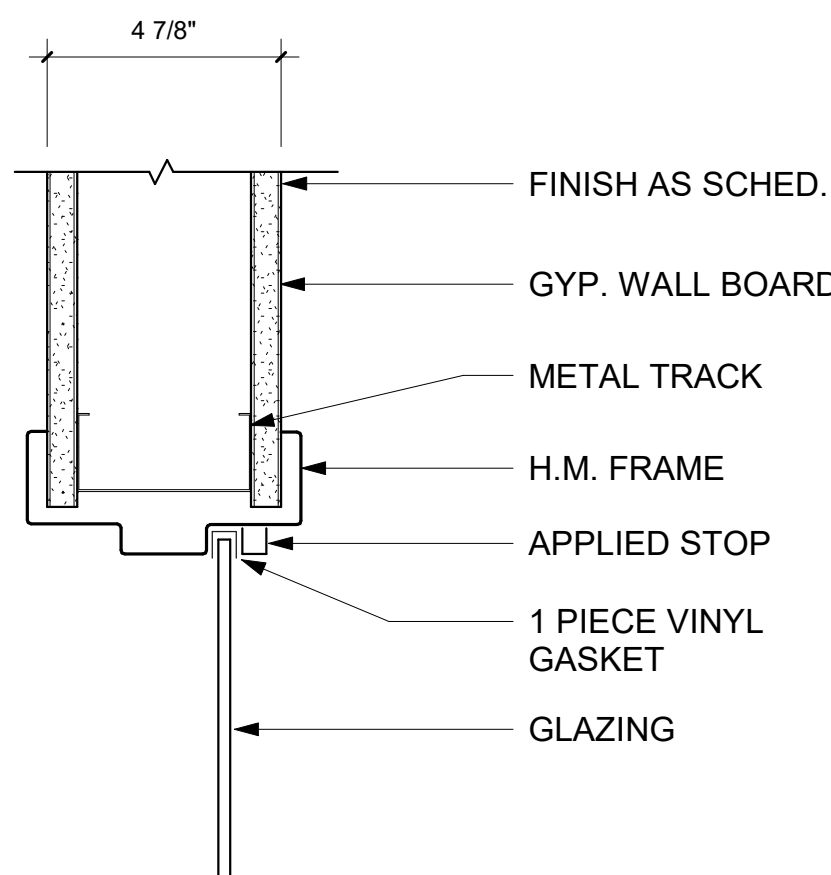
2 WALL @ MULLION DETAIL

Scale: 3" = 1'-0"



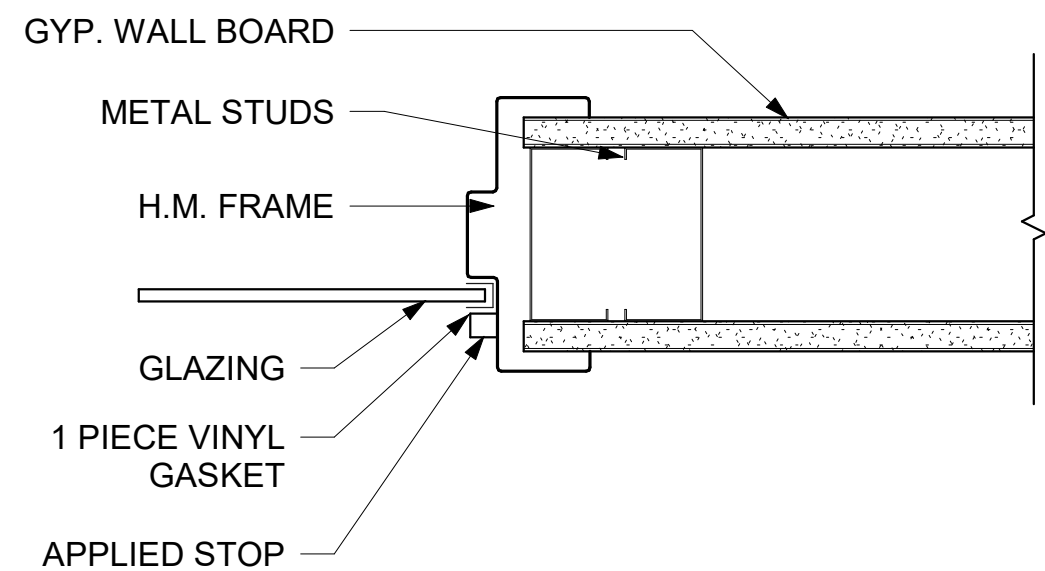
8 DOOR HEAD/JAMB

[2/A201] Scale: 3" = 1'-0"



6 DOOR GLAZING HEAD

[2/A201] Scale: 3" = 1'-0"



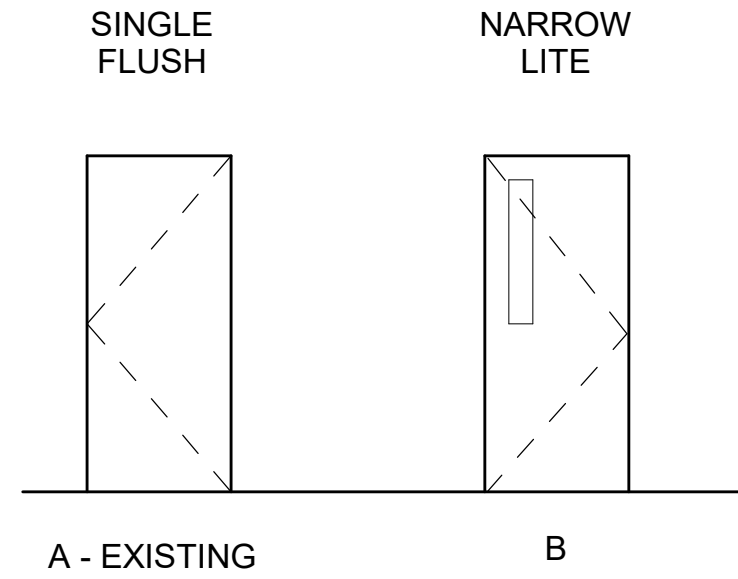
3 DOOR GLAZING JAMB

[2/A201] Scale: 3" = 1'-0"

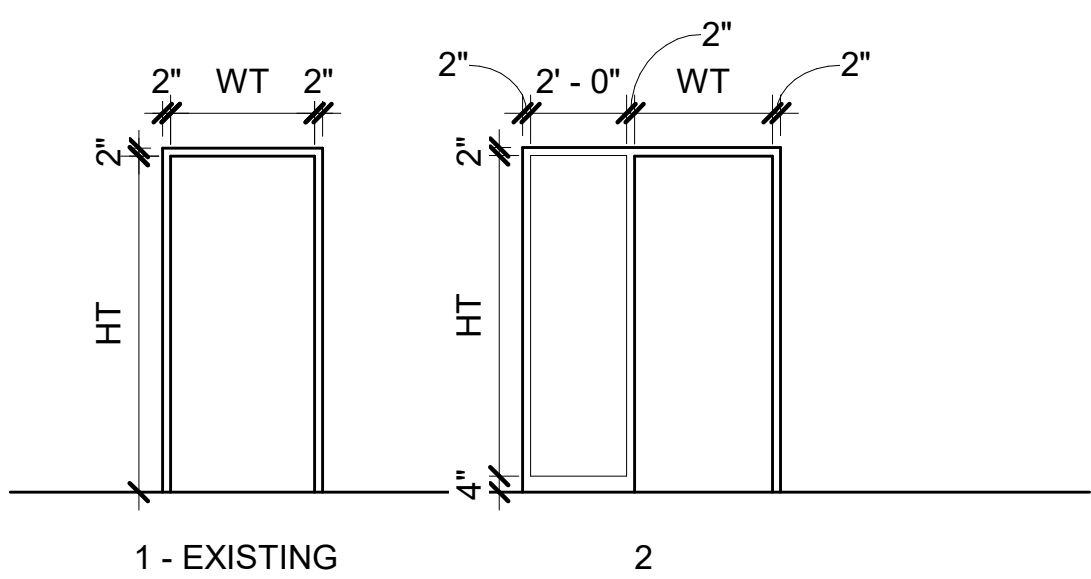
ROOM FINISH SCHEDULE												
ROOM NAME	ROOM NUMBER	FLOOR FINISH	BASE	WALLS					CEILING MATERIAL	CEILING FINISH		REMARKS
				WALL MATERIAL	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST				
STORAGE	124	CONC-1	RB-1	GWB	(E)	(E)	(E)	PNT-2	EXPOSED		3	
OFFICE	123	CPT-1	RB-1	GWB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1		3	
(E) CORRIDOR	108	(E)	(E)	GWB	(E)	(E)	PNT-2	(E)	(E)			

FINISH MATERIAL LEGEND						
CODE	TYPE	MANUFACTURER	COLLECTION/TYPE	COLOR	SIZE/THICKNESS	REMARKS
BASES						
RB-1	RESILIENT BASE	ROPPE		193 BLACK/BROWN	4" HIGH	
CEILINGS						
ACP-1	ACOUSTICAL CEILING PANEL	USG	OLYMPIA MICRO	FACTORY FINISH	2' x 4'	
FLOORING						
CONC-1	SEALED CONCRETE	-	-	-	-	EXPOSED
CPT-1	CARPET	MOHAWK	SPATIAL BUILD / DYNAMIC FLOW GT383	969 RUSTIC STEEL		INSTALLATION METHOD: VERT. ASHLAR
PAINTS						
PNT-1	PAINT	SHERWIN WILLIAMS		SW7015 REPOSE GRAY		FIELD COLOR
PNT-2	PAINT	SHERWIN WILLIAMS		SW7008 ALABASTER		FIELD COLOR
PNT-3	PAINT	SHERWIN WILLIAMS		SW7020 BLACK FOX		EXPOSED STRUCTURE / DOOR FRAME / WINDOW FRAMES

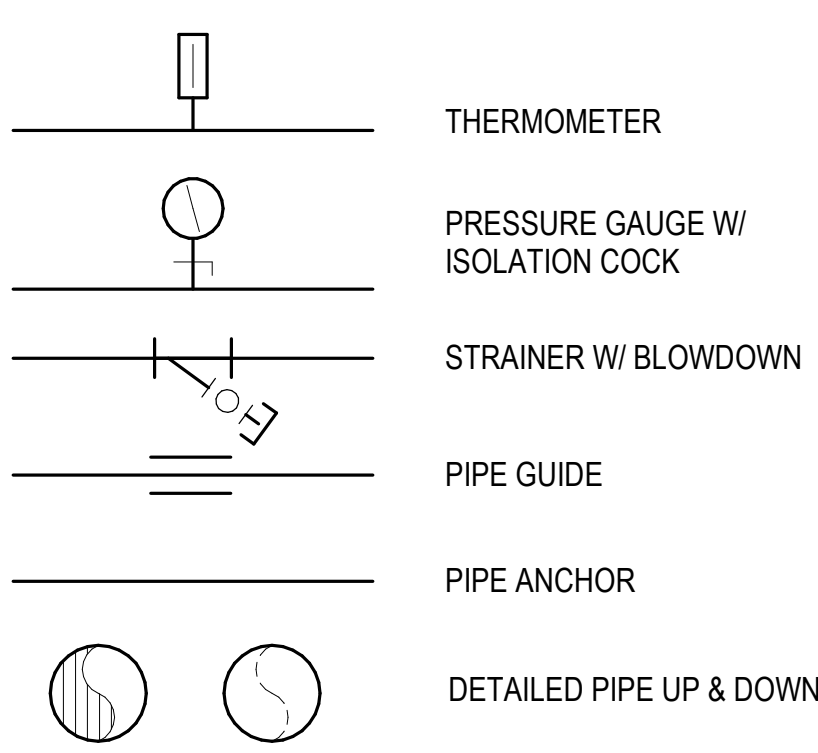
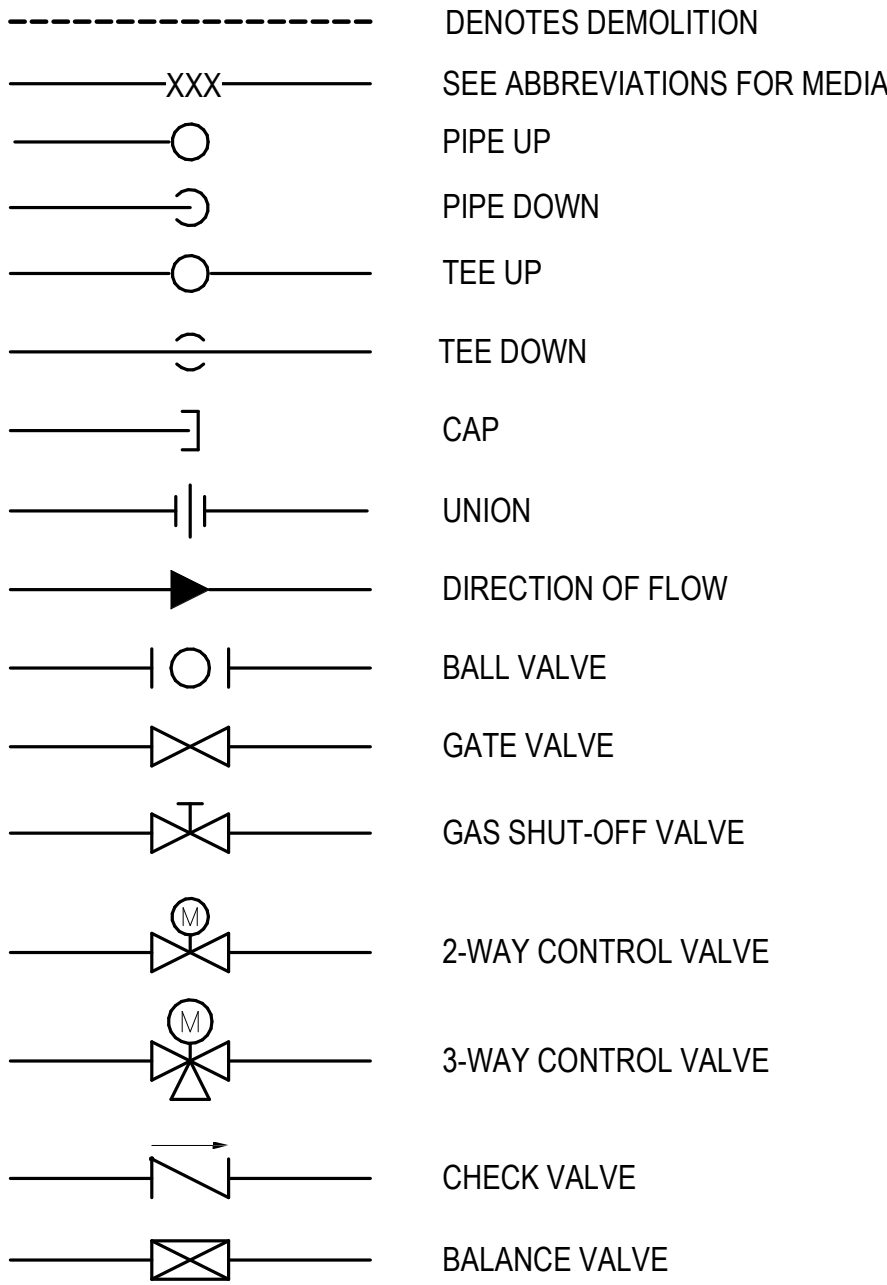
DOOR SCHEDULE												
DOOR NO	DOOR						FRAME			SIGNAGE	FIRE RATING	REMARKS
	SIZE			TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH			
	WIDTH	HEIGHT	THICKNESS									
123	3' - 0"	7' - 0"	1 3/4"	B	WD	FCTY	2	HM	PNT-3	2	20	
124	3' - 0"	7' - 0"	1 3/4"	F	WD	STAIN	1	HM	PAINT	1	(E) 20	1



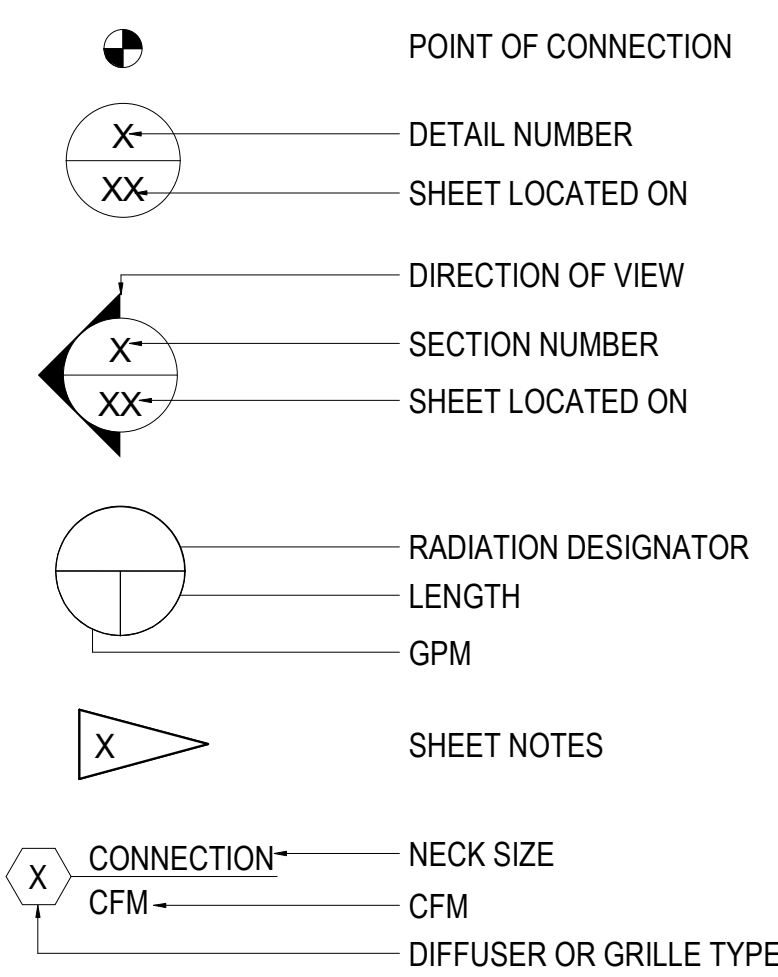
LEGEND- DOOR TYPES



PIPING LEGEND



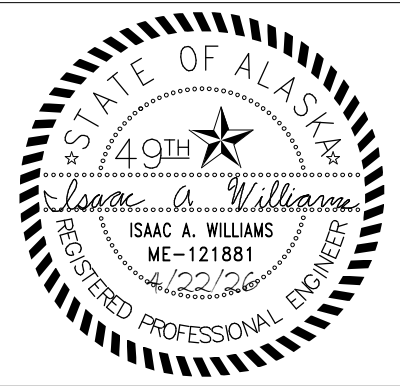
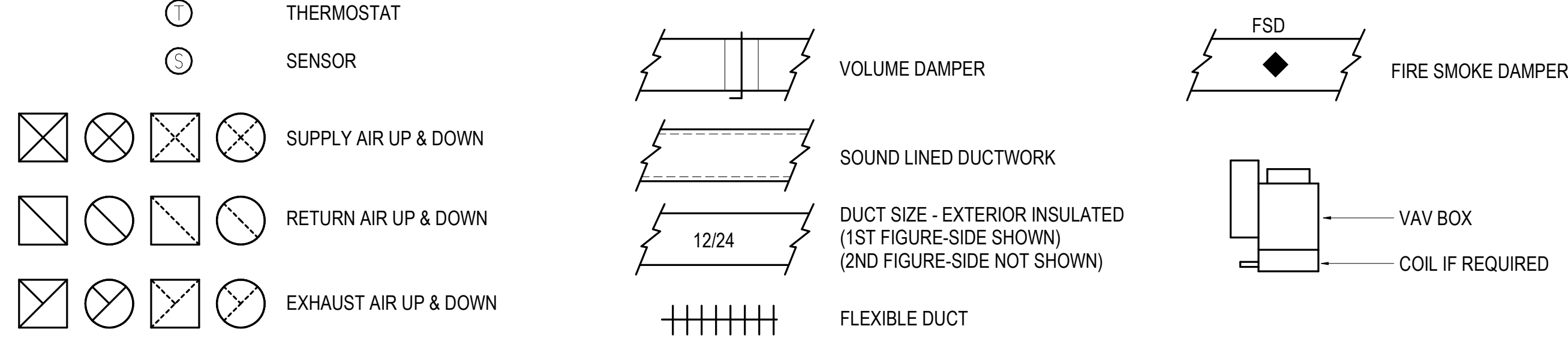
LOGIC



ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	DIA	DIAMETER	HGS	HEATING GLYCOL SUPPLY	PH	PHASE
ABV	ABOVE	DIM	DIMENSION	HOA	HAND-OFF-AUTO	PSI	POUNDS PER SQUARE INCH
AC-X	AIR CONDITIONING UNIT DESIGNATOR	DN	DOWN	HP	HORSEPOWER	PSIG	POUNDS PER SQUARE INCH GAUGE
ADA	AMERICANS WITH DISABILITIES ACT GUIDELINES	DWG	DRAWING	HW	HOT WATER	R/A	RETURN AIR
AD	ACCESS DOOR	(E)	EXISTING EQUIPMENT DESIGNATOR	HWC	HOT WATER CIRCULATED	RD-X	ROOF DRAIN DESIGNATOR
AF	AIR FOIL	E/A	EXHAUST AIR	HWG-X	HOT WATER GENERATOR DESIGNATOR	RL	RAINLEADER
AFF	ABOVE FINISHED FLOOR	EAT	ENTERING AIR TEMPERATURE	IBC	INTERNATIONAL BUILDING CODE	RPM	REVOLUTIONS PER MINUTE
AFG	ABOVE FINISHED GRADE	EFF	EFFICIENCY	IN	INCHES	SA-X	SOUND ATTENUATOR DESIGNATOR
AFMS	AIR FLOW MONITORING STATION	EF-X	EXHAUST FAN DESIGNATOR	INS.	INSULATION	S/A	SUPPLY AIR
AHAP	AS HIGH AS POSSIBLE	EGT	ENTERING GLYCOL TEMPERATURE	LAT	LEAVING AIR TEMPERATURE	SCFM	STANDARD CUBIC FEET PER MINUTE
AHU-X	AIR HANDLING UNIT DESIGNATOR	ENT	ENTERING	LPG	PROPANE GAS	SP	STATIC PRESSURE
AL	ALUMINUM	ESP	EXTERNAL STATIC PRESSURE	LF	LINEAL FEET	SQ	SQUARE
AMPS	AMPERES	ET-X	EXPANSION TANK DESIGNATOR	LGT	LEAVING GLYCOL TEMPERATURE	T/A	TRANSFER AIR
APD	AIR PRESSURE DROP	EXIST	EXISTING	LWT	LEAVING WATER TEMPERATURE	TEMP	TEMPERATURE
ARCH	ARCHITECTURAL	EXH	EXHAUST	MAX	MAXIMUM	TOD	TOP OF DUCT
AS-X	AIR SEPARATOR DESIGNATOR	F	FAHRENHEIT	MBH	THOUSAND BTUH	TSP	TOTAL STATIC PRESSURE
B-X	BOILER DESIGNATOR	FC	FORWARD CURVE	MCA	MINIMUM CIRCUIT AMPACITY	T'STAT	THERMOSTAT
BDD	BACKDRAFT DAMPER	FCO	FLOOR CLEAN OUT	MFGR	MANUFACTURER	TTL	TOTAL
BLDG	BUILDING	FD-X	FLOOR DRAIN DESIGNATOR	M/A	MAKEUP AIR	TYP/TYP.	TYPICAL
BOD	BOTTOM OF DUCT	FIN	FINISHED	MIN/MIN.	MINIMUM	UH-X	UNIT HEATER DESIGNATOR
BTUH	BRITISH THERMAL UNIT/HOUR	FLA	FULL LOAD AMPS	MOD	MOTOR OPERATED DAMPER	UPC	UNIFORM PLUMBING CODE
CAP	CAPACITY	FLR	FLOOR	MTD	MOUNTED	V	VENT
CFM	CUBIC FEET PER MINUTE	FPM	FEET PER MINUTE	NAT.	NATURAL	VAC	VOLT-AC
CH-X	CHILLER DESIGNATOR	FS-X	FLOOR SINK DESIGNATOR	NC	NOISE CRITERIA	VEL	VELOCITY
CIRC	CIRCULATING	FSD	FIRE SMOKE DAMPER	N.C.	NORMALLY CLOSED	VDC	VOLT-DC
CLG	CEILING	FT	FEET	NO.	NUMBER	VTR	VENT THRU ROOF
CONT	CONTINUED	G	NATURAL GAS	N.O.	NORMALLY OPEN	W	WASTE
C.O./CO	CLEANOUT	GA	GAUGE	NTS	NOT TO SCALE	W/	WITH
CONN	CONNECTION	GAL	GALLONS	O/A	OUTSIDE AIR	W/O	WITHOUT
CP-X	CIRCULATION PUMP DESIGNATOR	GALV	GALVANIZED	O.D.	OUTSIDE DIAMETER	W.C.	WATER COLUMN
CU-X	CONDENSING UNIT DESIGNATOR	GPH	GALLONS PER HOUR	OC	ON CENTER	WCO	WALL CLEAN OUT
CUH-X	CABINET UNIT HEATER DESIGNATOR	GPM	GALLONS PER MINUTE	OD	OUTSIDE DAMPER	WG	WATER GAUGE
CU	COPPER	GT-X	GLYCOL TANK DESIGNATOR	OD-X	OVERFLOW DRAIN DESIGNATOR	WHA	WATER HAMMER ARRESTOR
CW	COLD WATER	GD	GLYCOL TEMPERATURE DROP	OL	OVERFLOW RAINLEADER	WPD	WATER PRESSURE DROP
dB	DECIBELS	HC-X	HEATING COIL DESIGNATOR	P-X	PLUMBING FIXTURE DESIGNATOR	YCO	YARD CLEAN OUT
DEG	DEGREE	HD	HEAD	PD	PRESSURE DROP		
		HGR	HEATING GLYCOL RETURN	PG/P.G.	PROPYLENE GLYCOL		

DUCTWORK LEGEND



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MUNICIPALITY OF ANCHORAGE
FIRE STATION 6 OFFICE RENOVATION
ANCHORAGE, ALASKA

DATE: 04/22/2026

DRAWN: RTH

CHECKED: IW

PROJECT: M6022

DRAWING TITLE:
LEGEND AND ABBREVIATIONS

REVISIONS:

SHEET NO:

M001

CONSTRUCTION DOCUMENTS

FIN TUBE RADIATION SCHEDULE

SYMBOL	MFGR	MODEL	# ROWS	ELEMENT SIZE	MATERIAL	FPF	GPM	MEDIUM	EGT DEG F	LGT DEG F	BTUH/LF	FINISH	REMARKS
FT-1	ZEHNDER-RITTLING	COPPER-ALUMINUM	2	3/4"x4-1/4"x4-1/4"	ALUMINUM	48	PER PLANS	50% P.G.	150	130	770	PER ARCH	SLOPED TOP, WALL TO WALL 14 GA STEEL ENCLOSURE, 20" ENCLOSURE HEIGHT.

SINGLE DUCT TERMINAL UNIT WITH REHEAT SCHEDULE

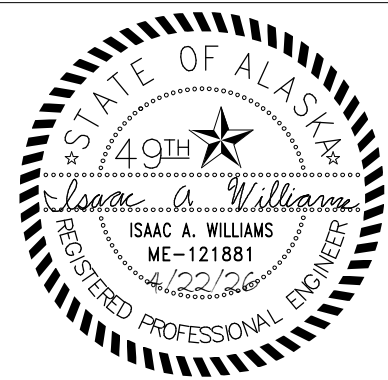
SYMBOL	MFGR	SIZE		CFM		STATIC PRESSURE		NC LEVELS		HOT WATER HEAT COIL									REMARKS
		MODEL	UNIT	MAX	MIN	INLET	DOWN	RAD.	DISH.	CFM	MBH	EAT	LAT	APD	GPM	EGT	LGT	WPD (FT HD)	
(E) VAV-3	TITUS	DESV	14	1,500	780	1.00	0.25	21	22	780	36.3	55	95	0.20	2.7	150	130	3.00	EXISTING VAV BOX - SHOWN FOR BALANCING.

AIR INLET/OUTLET SCHEDULE

SYMBOL	MFGR	MODEL	TYPE	USE	MATERIAL	FINISH	CFM	FACE SIZE (IN)	NC	THROW	REMARKS
A	TITUS	MCD	LAY-IN	SUPPLY	STEEL	PER ARCH	PER PLANS	24/24	<25	4-WAY	FRAME TYPE AS NEEDED, EARTHQUAKE TABS.
B	TITUS	50F	LAY IN	RETURN	ALUMINUM	PER ARCH	PER PLANS	24/24	<25	--	EGGCRATE GRILLE.
C	TITUS	350FL	WALL	RETURN	ALUMINUM	PER ARCH	PER PLANS	PER PLANS	<25	--	WALL MOUNT, EGGCRATE GRILLE.

UNIT HEATER SCHEDULE

SYMBOL	MFGR	MODEL	CAPACITY MBH	GPM	MEDIUM	EGT DEG F	LGT DEG F	CFM	RPM	MOTOR DATA				REMARKS
										HP	VOLTS	Hz	PH	
UH-1	--	--	19.9	2.3	50% P.G.	150	120	730	1550	1/12	120	60	1	EXISTING UNIT HEATER TO BE RELOCATED,



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MUNICIPALITY OF ANCHORAGE

FIRE STATION 6 OFFICE RENOVATION

ANCHORAGE, ALASKA

DATE:	04/22/2026
DRAWN:	RTH
CHECKED:	IW
PROJECT:	M6022
DRAWING TITLE:	MECHANICAL SCHEDULES
REVISIONS:	

SHEET NO:

M002

CONSTRUCTION DOCUMENTS

MECHANICAL SPECIFICATIONS

SECTION 21 00 00 - FIRE SUPPRESSION

CONTRACTOR IS TO REVISE EXISTING WET AUTOMATIC FIRE SPRINKLER SYSTEM TO PROVIDE COMPLETE COVERAGE OF PROJECT AREA WHERE AFFECTED BY PARTITION CHANGES. FIRE PROTECTION SYSTEM SHALL BE IN COMPLIANCE WITH CONTRACT DOCUMENTS, APPLICABLE CODES AND STANDARDS, AS WELL AS THE AUTHORITY HAVING JURISDICTION AS DEFINED IN NFPA 13. PROVIDE NEW SPRINKLER HEADS AS REQUIRED, NEW HEADS SHALL MATCH MAKE, MODEL, AND FINISH OF EXISTING SPRINKLERS WHILE COMPLYING WITH NFPA 13 STANDARDS. SUBMIT SHOP DRAWINGS TO ENGINEER AND OWNER FOR APPROVAL.

THIS PROJECT REQUIRES THE SPRINKLER SYSTEM TO BE INSTALLED IN ACCORDANCE WITH FM GLOBAL STANDARDS WHERE THEY HAVE REQUIREMENTS IN EXCESS OF NFPA 13. USE OF FM GLOBAL STANDARDS ON THIS PROJECT DOES NOT PERMIT ANY INSTALLATION THAT DOES NOT FULLY COMPLY WITH NFPA 13. IN THE PERCEPTION OF A CONFLICT BETWEEN THE DOCUMENTS, CONSULT THE ENGINEER FOR INTERPRETATION.

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL, DESIGNERS NICET CERTIFICATION, SHOP DRAWINGS, AND HYDRAULIC CALCULATIONS.

B. MATERIALS:

1. WET FIRE SPRINKLER PIPING:

a. BLACK STEEL PIPING, ASTM A135 SCHEDULE 10 OR ASTM A795 SCHEDULE 40, UL LISTED OR FM APPROVED FOR FIRE SPRINKLER SERVICE.

b. PIPING MAY BE ROLL-GROOVED, THREADED, FLANGED, OR WELDED FOR CONNECTION. ALL THREADED PIPING SHALL BE SCHEDULE 40. NO PLAIN-END FITTING CONNECTIONS ARE ALLOWED.

2. FIRE SPRINKLER HEADS:

a. PENDANT IN ALL AREAS WITH RECESSED LIGHTING FLUSH TO THE SUSPENDED CEILING FINISH, PROVIDE RECESSED STANDARD SPRAY PENDANT SPRINKLERS. SPRINKLERS AND ESCUTCHEONS TO BE CHROME FINISH. TYCO TY-FRB OR EQUAL.

C. INSTALLATION:

1. INSTALL PIPING TO CONSERVE BUILDING SPACE AND ROUTE PARALLEL TO BUILDING LINES AND AROUND ACCESS PANELS AND OPENINGS.

2. PIPING SHALL BE CONCEALED IN ALL OF THE BUILDING WITH FINISHED CEILINGS UNLESS NOTED OTHERWISE.

3. PROVIDE SEISMIC PROTECTION FOR PIPING IN ACCORDANCE WITH NFPA 13 STANDARDS.

4. HYDROSTATICALLY TEST THE ENTIRE SYSTEM IN ACCORDANCE WITH NFPA 13 STANDARDS.

5. TEST ALL SYSTEM ALARMS.

6. PERFORM MAIN DRAIN TEST.
- SECTION 22 05 00: 23 05 00 - COMMON WORK RESULTS FOR MECHANICAL
- THE INFORMATION SHOWN ON THESE PLANS FOR EXISTING CONDITIONS IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE INVESTIGATION OF THE FACILITY. THE INFORMATION SHOWN FOR EXISTING CONDITIONS MAY OR MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- PLANS - THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE DRAWINGS ARE PARTLY DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF PIPING AND DUCTS UNLESS SPECIFICALLY DIMENSIONED. CONTRACTOR IS TO COORDINATE PIPING, DUCTWORK, SPRINKLER HEADS, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL PLANS TO AVOID CONFLICTS. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITY REGULATIONS TO THE ATTENTION OF THE MOA PROJECT MANAGER. CODES, ORDINANCES, REGULATIONS, STANDARDS, OR MANUFACTURER'S INSTRUCTIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS. COORDINATE WITH PHASING PLAN TO PERFORM COORDINATED WORK IN SEQUENCE WITH OTHER TRADES. MAINTAIN CODE MINIMUM MECHANICAL SERVICE TO ALL AREAS IMPACTED BY WORK WHERE STILL OCCUPIED BY THE OWNER.
- STANDARDS, CODES, AND REGULATIONS - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL FIRE CODE (IFC), UNIFORM PLUMBING CODE (UPC), INTERNATIONAL ENERGY CONSERVATION CODE (IECC), INTERNATIONAL FUEL GAS CODE (IFGC), AND NATIONAL ELECTRIC CODE (NEC) AS AMENDED BY THE MUNICIPALITY OF ANCHORAGE. SHEET METAL WORK SHALL BE DONE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.
- ADDITIONAL SPECIFICATIONS - THE CONTRACTOR SHALL COMPLY FULLY WITH ALL TERMS AND CONDITIONS OF THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS FOR BUILDINGS (MASSB). THESE REFERENCE SPECIFICATIONS DEFINE MANY REQUIREMENTS WHICH INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: INSURANCE, PERMITS, SUBSTITUTIONS, SUBMITTALS, WARRANTY REQUIREMENTS, OPERATION AND MAINTENANCE MANUALS, ETC.
- ELECTRICAL WORK - ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN AND IN ACCORDANCE WITH NEC STANDARDS.
- MATERIALS - ALL MATERIALS OTHER THAN OWNER SUPPLIED SHALL BE NEW AND UNUSED, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND IN THE BEST PRACTICE OF THE CRAFT. OBTAIN MOA PROJECT MANAGER APPROVAL OF ALL PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.
- WORKMANSHIP - INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, AND THIRD PARTY LISTINGS WHERE APPLICABLE.
- EQUIPMENT INSTALLATION AND ACCESS - INSTALL ALL EQUIPMENT WHERE NOTED ON THE DRAWINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE MISCELLANEOUS APPURTENANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS INCLUDING ACCESSORIES, SUPPORTS AND CONTROL CONNECTIONS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AND PROVIDE WORKABLE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT.
- TEST AND START-UP - TEST ALL PIPING SYSTEMS WITH 60 PSIG FOR ONE HOUR BEFORE FILLING AND IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC).
- RECORD DRAWINGS - PROVIDE ACCURATE PROJECT RECORD DRAWINGS, SHOWN IN RED INK ON A CLEAN SET OF PRINTS, SHOWING ALL CHANGES FROM THE ORIGINAL PLANS MADE DURING INSTALLATION OF THE WORK. SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL MECHANICAL WORK THAT IS PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN. SUBMIT ORIGINAL COPY TO MOA PROJECT MANAGER AT THE COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION INSPECTION. PROVIDE ELECTRONIC COPY OF UPDATED CONTROLS SHOP DRAWINGS INCLUDING PLANS, PANEL WIRING DIAGRAMS, AND SEQUENCES OF OPERATIONS TO ACCURATELY REFLECT INSTALLED CONDITIONS.
- SEISMIC RESTRAINT - ALL PIPING, DUCTWORK, AND EQUIPMENT INSTALLED UNDER THIS PROJECT SHALL BE SEISMICALLY RATED AND RESTRAINED FOR A SEISMIC EVENT IN ACCORDANCE WITH THE 2018 EDITION OF THE IBC AND ASCE 7 AS AMENDED BY THE MUNICIPALITY OF ANCHORAGE. THE CONTRACTOR SHALL PROVIDE A DEFERRED SUBMITTAL FOR REVIEW TO THE MUNICIPALITY OF ANCHORAGE PLAN REVIEW DEPARTMENT FOR SEISMIC RESTRAINT DESIGN WITH CALCULATIONS AND SHOP DRAWINGS. SEISMIC RESTRAINT CALCULATIONS AND SHOP DRAWINGS SHALL INCLUDE A STRUCTURAL ENGINEERS STAMP AND SIGNATURE PRIOR TO INSTALLATION. SEISMIC CATEGORY D, COMPONENT IMPORTANCE FACTOR IP-1.5.
- DEMOLITION DRAWINGS ARE BASED ON AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK-THROUGH OF THE FACILITY. REPORT DISCREPANCIES TO MOA PROJECT MANAGER BEFORE DISTURBING THE EXISTING INSTALLATION. DISABLE SYSTEMS ONLY TO MAKE SWITCH OVERS AND CONNECTIONS. COORDINATE WITH PHASING PLAN TO PERFORM WORK IN SEQUENCE WITH OTHER TRADES AND
- MAINTAIN CODE MINIMUM MECHANICAL SERVICE CLEARANCES TO ALL AREAS IMPACTED BY WORK AND STILL OCCUPIED. OBTAIN PERMISSION FROM MOA PROJECT MANAGER AT LEAST 72 HOURS PRIOR TO PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION AND MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREAS. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS. REMOVE, RELOCATE, AND/OR EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTIONS. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY. REMOVE EXPOSED ABANDONED PIPING, DUCTWORK, INSULATION, HANGERS AND SUPPORTS, CONTROLS AND CONTROL WIRING, AND ANY OTHER ABANDONED MECHANICAL EQUIPMENT. THIS INCLUDES ABANDONED EQUIPMENT ABOVE ACCESSIBLE CEILING FINISHES. WHERE ABANDONED PIPE ENTERS EXISTING SURFACES TO REMAIN, CUT PIPE FLUSH WITH WALLS, AND FLOORS, CAP/PLUG PIPE AND PATCH SURFACES. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND REMODEL WORK. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS WHICH REMAIN ACTIVE.
- SECTION 22 05 29: 23 05 29 - HANGERS & SUPPORTS FOR PIPING & EQUIPMENT
- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS:

1. PIPE HANGERS AND SUPPORTS

a. HANGERS FOR PIPES 1/2" TO 1-1/2" - MALLEABLE IRON OR CARBON STEEL, ADJUSTABLE SWIVEL, SPLIT RING FOR STEEL PIPE, COPPER SWIVEL FOR COPPER PIPE.

b. MULTIPLE OR TRAPEZE HANGERS - STEEL CHANNELS WITH WELDED SPACERS AND HANGER RODS.

c. WALL SUPPORTS FOR PIPES 1/2" TO 3" - CAST IRON HOOK.

2. DUCT HANGERS AND SUPPORTS:

a. THREADED ROD: STEEL, THREADED, ASTM A36/A36M.

b. CHANNEL STRUT: 12-GAUGE FORMED STEEL CHANNELS CONFORMING TO ASTM A653 G433. ASTM 675 NUTS, ASTM 307 SCREWS.

c. SHEET METAL STRAPS: ASTM A653/A653M GALVANIZED STEEL WITH ZINC COATING.

C. INSTALLATION

1. INSTALL HVAC PIPE HANGERS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) AND ANSI/MSS-SP-69 AND 89.

2. INSTALLED AS PER THE MANUFACTURERS INSTRUCTIONS. PROVIDE SEISMIC SUPPORT FOR ALL PIPING AND EQUIPMENT IN ACCORDANCE WITH IBC.

SECTION 22 05 53: 23 05 53 - IDENTIFICATION FOR PIPING AND EQUIPMENT

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS:

1. COLORING SCHEME IN ACCORDANCE WITH ANSI A13.1, SETON OPTI-CODE OR EQUAL.

C. INSTALLATION:

1. LABEL ALL EQUIPMENT WITH HEAT RESISTANT LAMINATED PLASTIC LABELS HAVING ENGRAVED LETTERING 1/2" HIGH. LABEL CEILING ADJACENT TO ACCESS LOCATION FOR ALL EQUIPMENT LOCATED ABOVE CEILING.

2. IDENTIFY PIPING AND DUCTWORK TO INDICATE CONTENTS AND FLOW DIRECTION USING PIPE MARKERS OR BY A LABELED SLEEVES IN LETTERS READABLE FROM FLOOR AT LEAST ONCE IN EACH ROOM AND AT INTERVALS OF NOT MORE THAN 20' APART AND ON EACH SIDE OF PARTITION PENETRATIONS.

SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

A. SUBMITTALS: SUBMIT QUALIFICATIONS, NEBB CERTIFICATIONS OR 5 YEARS DOCUMENTED PROJECT EXPERIENCE OF SIMILAR OR GREATER MAGNITUDE, EQUIPMENT CALIBRATIONS, PRELIMINARY AND FINAL BALANCING REPORTS.

B. MATERIALS:

1. BALANCING INSTRUMENTS AS NECESSARY TO COMPLETE WORK TO MEASURE AT LEAST THE FOLLOWING: AIR VELOCITY, STATIC PRESSURE, RPM, TEMPERATURE, AND FLOW.

C. EXECUTION:

1. THE CONTRACTOR SHALL BALANCE AIR AND HYDRONIC SYSTEMS ACCORDING TO NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) RECOMMENDED PROCEDURES AND CONTRACT DOCUMENTS, AND TO THE SATISFACTION OF THE OWNER.

2. FLOWS ARE TO BE BALANCED TO WITHIN 10% OF INDICATED FLOWS, PER AMERICAN AIR BALANCING COUNCIL (AABC) RECOMMENDED METHODS.

SECTION 22 07 00: 23 07 00 - INSULATION

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS:

1. PIPING INSULATION - GLASS FIBER, RIGID, MOLDED, NON-COMBUSTIBLE INSULATION; ANSI/ASTM C547; 'K' VALUE OF 0.24 AT 75 DEG F, RATED TO 850 DEG F, VAPOR RETARDER JACKET OF KRAFT PAPER BONDED TO ALUMINUM FOIL; JOHNS MANVILLE "MICRO-LOK" OR EQUAL. COMPLETE WITH VAPOR BARRIER JACKET AND PLASTIC COVERS FOR FITTINGS.

2. FIBER FREE DUCT LINER - CLOSE-CELL, CFC AND HCFC FREE FLEXIBLE ELASTOMERIC ACOUSTICAL INSULATION WITH SCRIM-REINFORCED ACRYLIC ADHESIVE ON ONE SIDE. ASTM C534 TYPE 2 (SHEET) GRADE 1, 'K' VALUE OF 0.25 AT 75°F; NOISE REDUCTION COEFFICIENT OF 0.5 AT 1" THICKNESS. UL LISTED ADHESIVE GALVANIZED STEEL PINS. K-FLEX USA "K-FLEX DUCT LINER GRAY" OR APPROVED EQUAL.

3. PVC JACKETING - ONE PIECE FITTING COVERS AND JACKETING MATERIALS, PRE-MOLDED TYPE. JOHNS MANVILLE "ZESTON 2000" OR APPROVED EQUAL. JOHNS MANVILLE "PERMA-WELD" SOLVENT WELDING ADHESIVE.

C. INSTALLATION

1. PIPING

a. INSULATE ALL HEATING PIPING WITH PRE-FORMED FIBERGLASS INSULATION, COMPLETE WITH FACTORY VAPOR BARRIER AND PVC JACKETING FOR FITTINGS. PVC JACKETING TO BE PROVIDED FOR ALL PIPING BELOW 10' AFF IN FINISHED SPACES OR IN MECHANICAL ROOMS.

1. INSULATE ALL HYDRONIC HEATING PIPING SIZE 1-1/4" AND SMALLER WITH 1" INSULATION.

2. DUCTWORK

a. PROVIDE 1" DUCT LINER ON ALL TRANSFER AIR DUCTWORK. DUCTWORK DIMENSIONS INDICATED ARE NET INSIDER DIMENSIONS REQUIRED FOR AIRFLOW. INCREASE DUCTWORK TO ALLOW FOR LINER THICKNESS.

b. PROVIDE 1" FIBERGLASS INSULATION ON ALL SUPPLY DUCTWORK.

3. INSTALL ALL INSULATION MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ALL APPLICABLE BUILDING CODES AND INDUSTRY STANDARDS.

SECTION 23 09 23 - DIRECT DIGITAL CONTROL SYSTEM FOR HVAC

A. SUBMITTALS: SUBMIT ON PRODUCT DATA AND CONTROLS SHOP DRAWINGS FOR APPROVAL.

B. DDC GENERAL REQUIREMENTS:

1. PROVIDE A COMPLETE DIRECT DIGITAL CONTROL SYSTEM TO ACCOMPLISH THE SEQUENCE OF OPERATIONS. PROVIDE ALL CONTROLLERS, TEMPERATURE SENSORS, CONTROL VALVES, TRANSFORMERS, WIRING AND ALL OTHER ASSOCIATED COMPONENTS. THE CONTRACTOR SHALL MAINTAIN THE EXISTING BAS SYSTEM AS OPERATIONAL DURING THE RENOVATION WORK. THE RENOVATED AREAS WILL BE BROUGHT ONLINE AND CONNECTED TO THE EXISTING SIEMENS BAS SERVER TO ALLOW MONITORING AND CONTROL OF THE SYSTEM AT THE HEAD END SERVER. THE DDC SYSTEM SHALL BE COMPLETE WITH GRAPHICS DISPLAYING EQUIPMENT, INDICATIONS, AND ALARMS AS NOTED IN THE SEQUENCE OF OPERATIONS.

C. MATERIALS:

1. CONTROL VALVES - SELECT VALVES TO FAIL SAFE IN THE HEATING POSITION UNLESS NOTED OTHERWISE. SIZE VALVE OPERATORS TO CLOSE VALVES AGAINST PUMP SHUT OFF HEAD. SIZE MODULATING VALVES FOR 3 PSI DROP.

D. INSTALLATION:

1. CONTRACTOR SHALL COORDINATE WITH OWNER TO DETERMINE EXTENT OF EXISTING EQUIPMENT AND EXTENT OF EQUIPMENT TO BE PROVIDED BY CONTRACTOR. ANY EQUIPMENT NOT EXISTING SHALL BE PROVIDED BY CONTRACTOR AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATIONS.

2. THE CONTROL SYSTEM SHALL BE DESIGNED, FURNISHED, INSTALLED, TESTED, AND PLACED INTO SERVICE BY A CONTROL CONTRACTOR WHO IS REGULARLY ENGAGED IN THE INSTALLATION OF CONTROL SYSTEMS IN ALASKA. THE CONTROL CONTRACTOR SHALL MAINTAIN AN OFFICE IN ALASKA WITH PARTS AND MAINTENANCE PERSONNEL TO ENSURE PROMPT RESPONSE (24 HOUR MAXIMUM) TO AN EMERGENCY CALL DURING THE ONE YEAR CORRECTION PERIOD.

3. CONTROL CONTRACTOR SHALL PROVIDE (11X17) SCHEMATIC CONTROL DIAGRAMS IN AUTOCAD FORMAT. CLEARLY INDICATE WIRE AND TERMINAL LABELS, SET POINTS, RESET SCHEDULES, SWITCH OVER POINTS, SIGNAL RANGES, AND OTHER POINTS REQUIRED TO COMPLETELY DESCRIBE THE SYSTEM. DEPICT CIRCUITRY ON SCHEMATIC CONTROL DIAGRAMS TO ALLOW CIRCUITS TO BE TRACED FROM CONNECTION TO CONNECTION. CONTROL SYSTEM SHALL BE SIEMENS CONTROLS AS PROVIDED BY SIEMENS INDUSTRY AND SHALL BE INTEGRATED WITH THE EXISTING BUILDING AUTOMATION SYSTEM.

4. INSTALL ALL WIRING IN ACCORDANCE WITH THE NEC.

5. TEST ALL SYSTEMS; VERIFY ALL SYSTEMS OPERATE AS SPECIFIED IN THE SEQUENCE OF OPERATIONS AND RECORD INITIAL SETTINGS AND OPERATING POINTS IN O&M MANUALS. PROVIDE OPERATOR INTERFACE TO ALLOW FOR LOCAL SCHEDULE ADJUSTMENT, SETPOINT ADJUSTMENT, AND SYSTEM MONITORING.

6. MOUNT DAMPER OPERATORS AND OTHER CONTROL DEVICES SECURED TO INSULATED PIPING OR DUCTWORK ON BRACKETS SUCH THAT THE DEVICE IS EXTERNAL OF THE INSULATION.

7. ALL CONTROLLERS, SWITCHES, RELAYS, THERMOSTATS, SENSORS, AND ACTUATORS SHALL BE PERMANENTLY TAGGED FOR IDENTIFICATION TO MATCH THE EXISTING FACILITY IDENTIFICATION SCHEME. THE TAGGING SCHEME SHALL BE REFLECTED ON THE CONTROL DRAWINGS.

8. THE CONTRACTOR WILL COMPLETELY CHECK-OUT, CALIBRATE, AND TEST ALL CONNECTED HARDWARE AND SOFTWARE TO ENSURE THAT THE SYSTEM PERFORMS IN ACCORDANCE WITH THE APPROVED SPECIFICATIONS AND SEQUENCE OF OPERATIONS.

SECTION 23 21 13 - HYDRONIC PIPING

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL, PIPING SYSTEM PRESSURE TEST RESULTS.

B. MATERIALS:

1. COPPER TUBING - ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ANSI/ASME B16.18 CAST BRONZE OF ASME B16.22 WROUGHT COPPER. JOINTS: ASTM B32, SOLDER, GRADE 95TA OR ANSI/AWS A5.8, BCUP SILVER BRAZE; FLUX: ASTM B813 OR VIEGA PRO PRESS SYSTEM BALL VALVES:

a. SIZES 2" AND SMALLER - BRONZE TWO-PIECE BODY, FULL PORT, FORGED BRASS, CHROME PLATED BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE. SOLDER, THREADED, OR PRESS-FIT ENDS.

3. FLANGES, UNIONS, AND COUPLINGS - BRONZE UNIONS FOR COPPER PIPE, SOLDERED JOINTS.

4. RELIEF VALVES - BRONZE BODY, TEFLON SEAT, STAINLESS STEEL STEM AND SPRINGS, AUTOMATIC, DIRECT PRESSURE ACTUATED, CAPACITIES ASME CERTIFIED AND LABELED.

C. INSTALLATION:

1. INSTALL ALL PIPING IN CRAFTSMANLIKE MANNER, PLUMB AND PARALLEL TO BUILDING LINES. GROUP PIPING AT COMMON ELEVATIONS WHERE PRACTICAL.

2. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.

3. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.

4. PROVIDE PROPERLY SIZED HANDLES FOR VALVE OPERATION. HANDLES SHALL NOT BE CUT OR BENT TO MAKE FIT WHERE INSTALLED.

5. INSTALL BALL VALVES FOR SHUT-OFF TO ISOLATE EQUIPMENT.

6. PROVIDE 3/4" DRAIN VALVES AT EQUIPMENT AND PIPING LOW POINTS FOR DRAINING OF SYSTEM.

7. PRIOR TO FLUSHING NEW PIPING, VERIFY SYSTEM IS COMPLETE. THOROUGHLY FLUSH AND CLEAN THE NEW PIPING. DRAIN ALL LOW POINTS AND REMOVE AND CLEAN ANY STRAINER BASKETS. UPON COMPLETION OF FLUSHING, FEED HEATING MEDIUM INTO SYSTEM THROUGH MAKE-UP LINE WITH PRESSURE REGULATOR WHILE VENTING HIGH POINTS. SET INITIAL FILL PRESSURE TO 5 PSIG. ADJUST PRESSURE AS NECESSARY TO ACHIEVE 12 PSIG DURING SYSTEM OPERATION.

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MUNICIPALITY OF ANCHORAGE
**FIRE STATION 6 OFFICE
RENOVATION**
ANCHORAGE, ALASKA

DATE:	04/22/2026
DRAWN:	RTH
CHECKED:	IW
PROJECT:	M6022
DRAWING TITLE:	MECHANICAL SPECIFICATIONS
REVISIONS:	
SHEET NO:	M003

CONSTRUCTION DOCUMENTS

SECTION 23 21 16 - HYDRONIC SPECIALTIES

- A.

SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B.

MATERIALS:

1.

GLYCOL - PROVIDE HEAVY DUTY PREMIXED HYDRONIC GRADE PROPYLENE ANTIFREEZE AT A RATE OF 50% WATER TO 50% GLYCOL FOR A -29 DEGREES F PROTECTION OR BETTER. VERIFY GLYCOL COMPOSITION WITH OWNER PRIOR TO PURCHASE. SUPPLY PRE-MIXED GLYCOL-WATER SOLUTION WITH INHIBITORS, DOWFROST "HD" OR EQUAL. MIXING CONCENTRATED GLYCOL WITH SITE WATER IS NOT ACCEPTABLE. PROVIDE GLYCOL TEST AT FINAL COMPLETION. ADD 100% GLYCOL AS NECESSARY TO ACHIEVE SPECIFIED 50/50 CONCENTRATION. PROVIDE ADDITIONAL GLYCOL SOLUTION AS REQUIRED TO SET HYDRONIC SYSTEM PRESSURE.

2.

AIR VENTS:

a.

MANUAL TYPE - DISK TYPE VENT WITH BUILT-IN CHECK VALVE FOR MANUAL OR AUTOMATIC OPERATION, DISCS REPLACEABLE WITHOUT DRAINING SYSTEM, 1/8 INCH SHANK, RATED AT 50 PSI; HOFFMAN "MODEL 508" OR APPROVED EQUAL.

3.

STRAINERS:

a.

SIZE 2" AND SMALLER - SCREWED BRASS OR IRON BODY FOR 175 PSIG WORKING PRESSURE, Y PATTERN WITH 1/32 INCH STAINLESS STEEL PERFORATED SCREEN.

4.

BALANCE VALVES - ANGLE OR STRAIGHT PATTERN, INSIDE SCREW GLOBE VALVE FOR 125 PSIG WORKING PRESSURE, WITH BRONZE BODY AND INTEGRAL UNION FOR SCREWED CONNECTIONS, RENEWABLE COMPOSITION DISC, PLASTIC WHEEL HANDLE FOR SHUT-OFF SERVICE, AND LOCKSHIELD KEY CAP FOR BALANCING SERVICE. BELL & GOSSETT "CIRCUIT SETTER PLUS" OR APPROVED EQUAL.

C.

INSTALLATION:

1.

INSTALL ALL PIPING IN CRAFTSMANLIKE MANNER, PLUMB AND PARALLEL TO BUILDING LINES. GROUP PIPING AT COMMON ELEVATIONS WHERE PRACTICAL.

2.

PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.

3.

INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.

4.

PROVIDE PROPERLY SIZED HANDLES FOR VALVE OPERATION. HANDLES SHALL NOT BE CUT OR BENT TO MAKE FIT WHERE INSTALLED.

5.

INSTALL BALL VALVES FOR SHUT-OFF TO ISOLATE EQUIPMENT.

6.

PROVIDE 3/4" DRAIN VALVES AT EQUIPMENT AND PIPING LOW POINTS FOR DRAINING OF SYSTEM.

SECTION 23 31 00 - HVAC DUCTS AND CASINGS

A.

SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL

B.

MATERIALS:

1.

DUCTWORK:

a.

GALVANIZED STEEL - ASTM A653/A653M GALVANIZED SHEET, LOCK-FORMING QUALITY, ASTM A90/90M G90 ZINC COATING.

b.

FASTENERS - RIVETS, BOLTS, OR SHEET METAL SCREWS.

2.

FLEXIBLE DUCTS:

a.

INSULATED - UL 181, CLASS 1, COATED FIBERGLASS WOVEN FABRIC SUPPORTED BY COATED HELICAL WOUND SPRING STEEL WIRE, FIBERGLASS INSULATED, ALUMINIZED POLYESTER VAPOR BARRIER FILM, THERMAL RESISTANCE OF R-4.2 16" W.G. POSITIVE AND 2.0" W.G. NEGATIVE PRESSURE RATING FOR SIZES 3"-10" DIAMETER. 10" W.G. POSITIVE AND 2.0" W.G. NEGATIVE FOR SIZES 12"-16" DIAMETER. THERMFLEX "M-KC" OR APPROVED EQUAL.

3.

SINGLE WALL, ROUND SPIRAL DUCT - UL 181, CLASS 1, ROUND SPIRAL LOCKSEAM, GALVANIZED STEEL. DUCT SIZE GAUGES PER SMACNA STANDARDS.

C.

INSTALLATION:

1.

LOW PRESSURE DUCTWORK - FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS AND ASHRAE HANDBOOKS, EXCEPT AS INDICATED. SEAL ALL DUCT SEAMS AND JOINTS AIRTIGHT. USE TURNING VANES IN ALL SQUARE ELBOWS AND FLAT OVAL ELBOWS. INSTALL VOLUME DAMPERS AND EXTRACTORS WHERE SHOWN ON THE DRAWINGS. ALL SHEET METAL WORK TO BE CONSTRUCTED, INSTALLED, TESTED AND BALANCED IN ACCORDANCE WITH SMACNA STANDARDS. SUPPORT LOW AND MEDIUM PRESSURE DUCTWORK PER SMACNA GUIDELINES.

2.

CONNECT FLEXIBLE DUCTS TO METAL DUCTS WITH DRAW BANDS.

3.

PROVIDE SEISMIC SUPPORT AND RESTRAINT FOR ALL DUCTWORK AND EQUIPMENT IN ACCORDANCE WITH THE IBC.

SECTION 23 33 00 - AIR DUCT ACCESSORIES

A.

SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL

B.

MATERIALS:

1.

DAMPERS:

a.

MANUAL BALANCING - DIFFERENTIAL PRESSURE RATING OF 1" W.G., VELOCITY RATING OF 2,000 FPM. DAMPER FRAME AND SLEEVE SHALL BE OF ONE-PIECE DESIGN, 20 GAUGE GALVANIZED STEEL, SINGLE BLADE. GREENHECK "MBDR-50" OR APPROVED EQUAL.

C.

INSTALLATION:

1.

INSTALL COMPONENTS IN ACCORDANCE WITH NFPA 90A AND SMACNA DUCT CONSTRUCTION STANDARDS.

2.

INSTALL TEMPORARY DUCT TEST HOLES AS REQUIRED FOR TESTING AND BALANCING. CAP ALL HOLES WITH NEOPRENE OR THREADED PLUGS.

SEQUENCE OF OPERATIONS

UH-1:
UNIT HEATER SHALL CYCLE FAN AND CONTROL VALVE AS NECESSARY TO MAINTAIN SPACE TEMPERATURE. SETPOINT BASED ON ROOM TEMPERATURE SENSOR.

FT-1:
CYCLE CONTROL VALVE AS NECESSARY TO MAINTAIN SPACE TEMPERATURE. SETPOINT BASED ON ROOM TEMPERATURE SENSOR.

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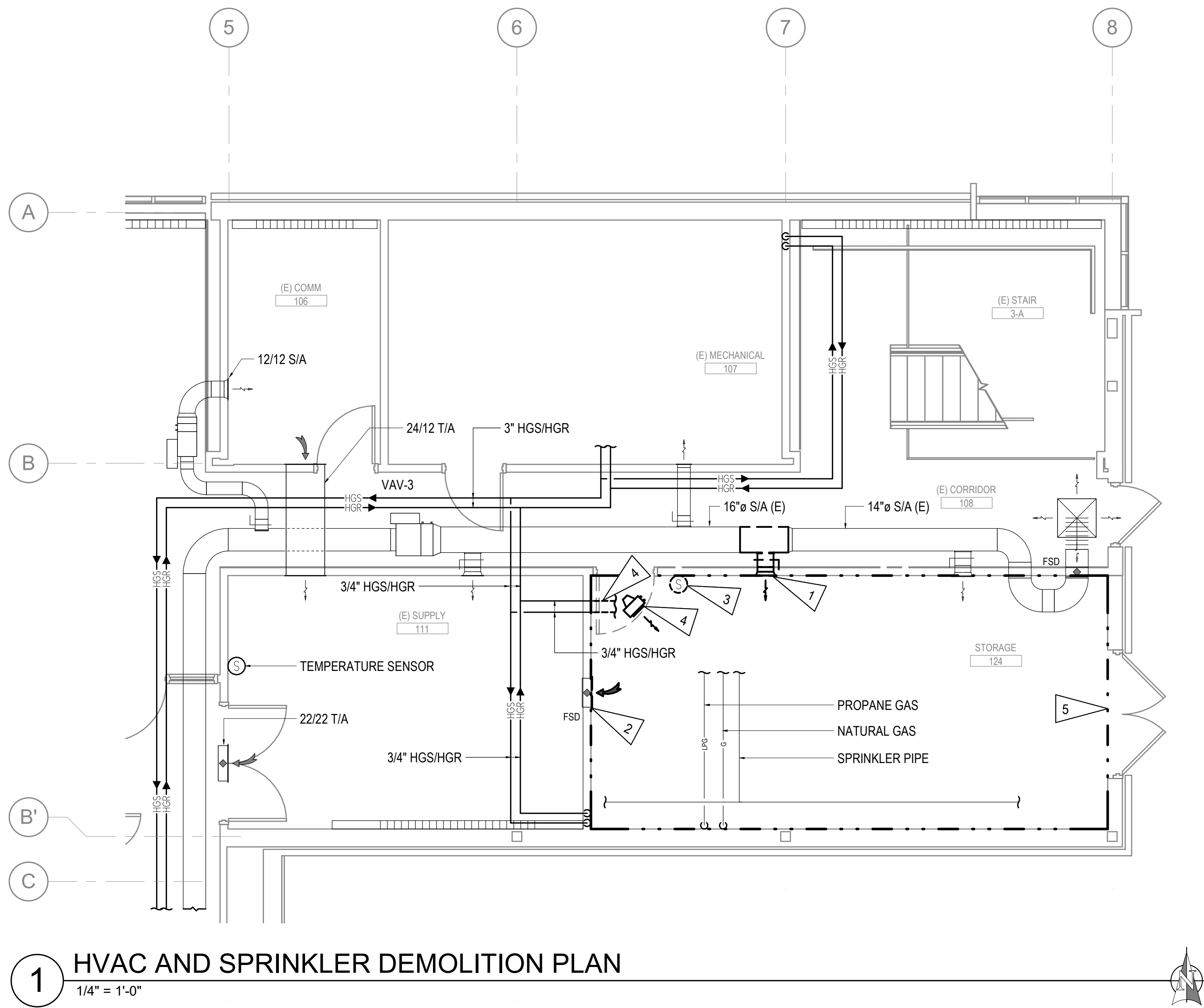
MUNICIPALITY OF ANCHORAGE

FIRE STATION 6 OFFICE RENOVATION

ANCHORAGE, ALASKA

DATE:	04/22/2026
DRAWN:	RTH
CHECKED:	IW
PROJECT:	M6022
DRAWING TITLE:	MECHANICAL SPECIFICATIONS
REVISIONS:	
SHEET NO:	M004

CONSTRUCTION DOCUMENTS

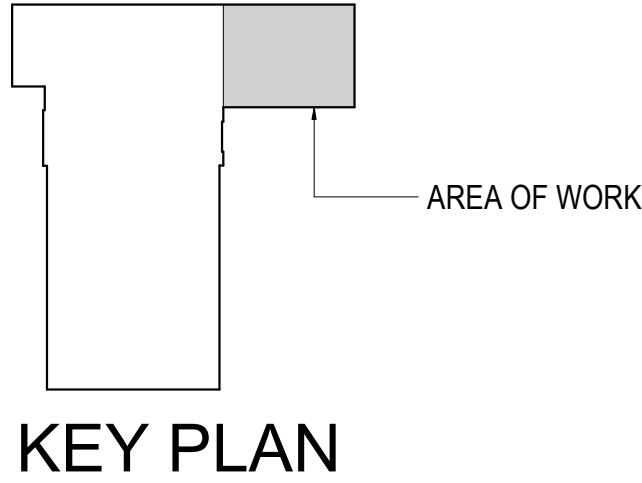


GENERAL NOTES:

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM A NON-DESTRUCTIVE WALK-THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HEREIN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS NOTED FOR DEMOLITION PRIOR TO START OF WORK.
- B. THE OWNER HAS FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

SHEET NOTES:

- 1. DEMOLISH S/A DIFFUSER AND DUCTWORK BACK AS NECESSARY TO ACCOMODATE REMODEL WORK.
- 2. DEMOLISH T/A GRILLE. FSD TO REMAIN FOR RECONNECTION.
- 3. DEMOLISH SENSOR AND CONTROL WIRING.
- 4. REMOVE AND SALVAGE UNIT HEATER FOR RE-INSTALLATION UNDER REMODEL WORK. DEMOLISH HEATING PIPING BACK AS NECESSARY TO ACCOMODATE REMODEL WORK.
- 5. DEMOLISH SPRINKLER PIPING AND SPRINKLER HEADS AS REQUIRED FOR REMODEL WORK.



STATE OF ALASKA

40th

ISAC A. WILLIAMS

ME-121881

4/22/20

REGISTERED PROFESSIONAL ENGINEER

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MUNICIPALITY OF ANCHORAGE

FIRE STATION 6 OFFICE RENOVATION

ANCHORAGE, ALASKA

DATE: 04/22/2026

DRAWN: RTH

CHECKED: IW

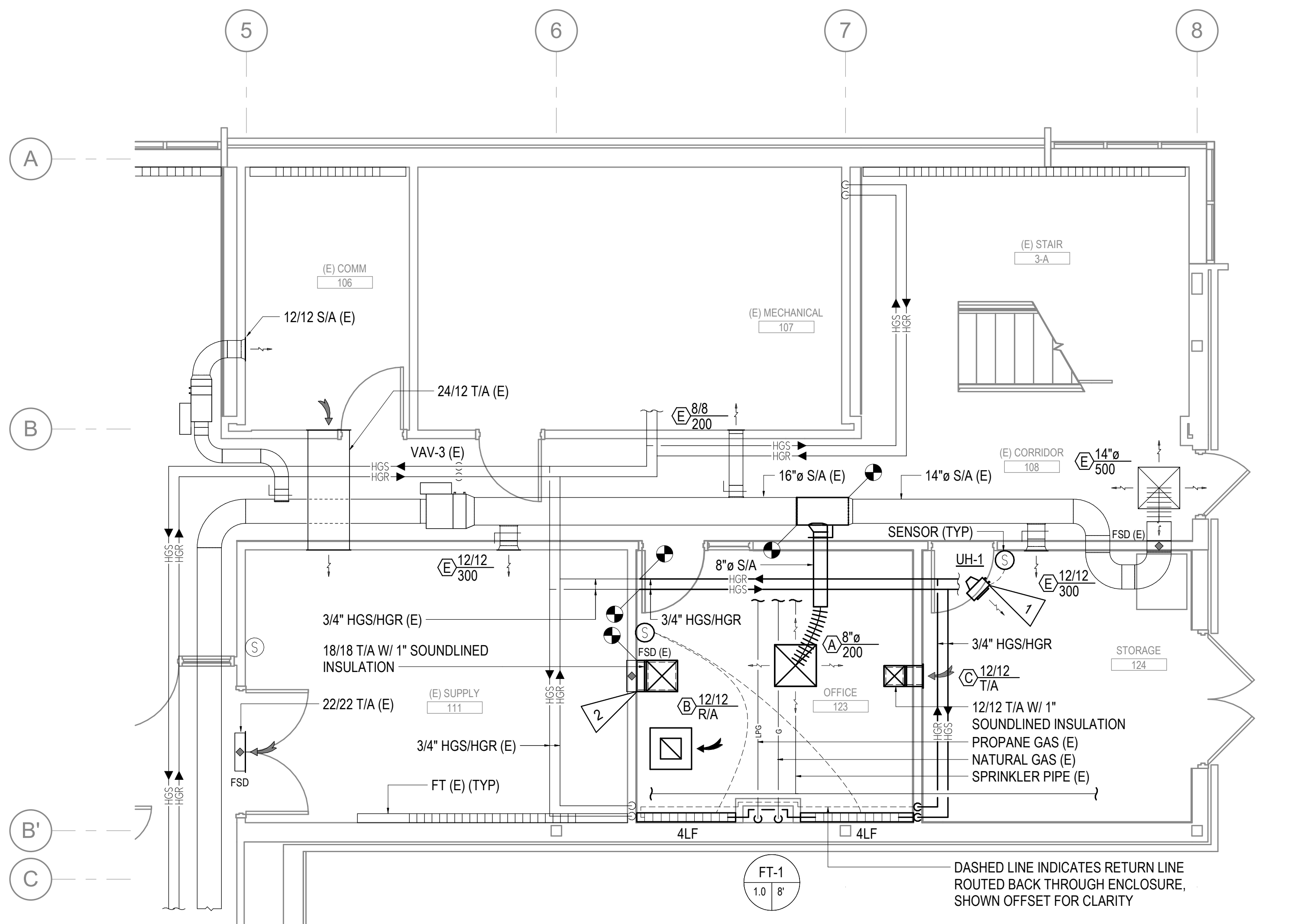
PROJECT: M6022

DRAWING TITLE: HVAC DEMOLITION

REVISIONS:

SHEET NO: M101

CONSTRUCTION DOCUMENTS

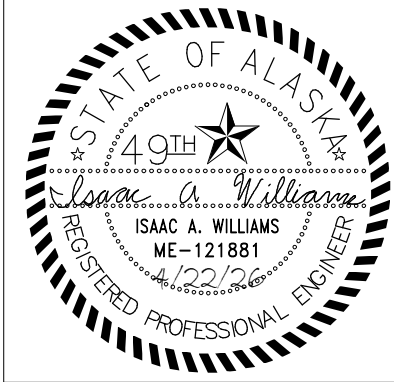
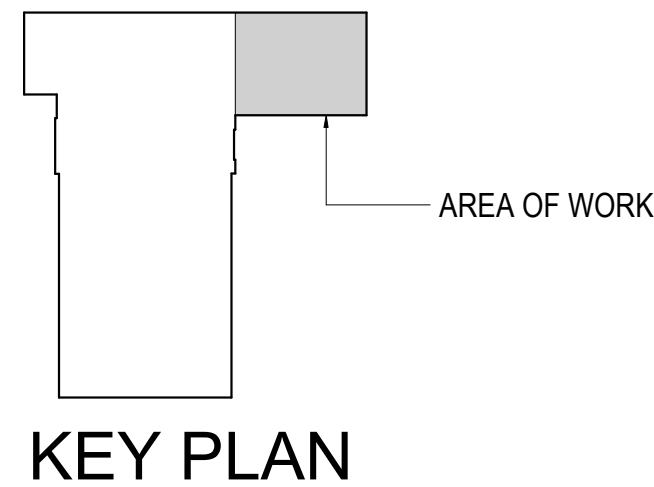


GENERAL NOTES:

- A. CONTRACTOR TO REVISE EXISTING FIRE PROTECTION SYSTEM AND PROVIDE NEW SPRINKLER HEADS AS NECESSARY FOR NEW BUILDING FLOOR PLAN IN ACCORDANCE WITH NFPA 13 AND FM GLOBAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADEQUATE SIZE FOR PIPING IN NEW LAYOUT.
- B. FOR TYPICAL FINTUBE DETAIL, SEE -

SHEET NOTES:

1. RE-INSTALL SALVAGED UNIT HEATER. EXTEND HEATING PIPING AS REQUIRED FOR RECONNECTION. BALANCE PER SCHEDULE. FOR TYPICAL UNIT HEATER PIPING DETAIL, SEE -
2. CONNECT DUCT BOOT TO EXISTING T/A AND FSD. FOR TYPICAL AIR TRANSFER DUCT DETAIL, SEE -



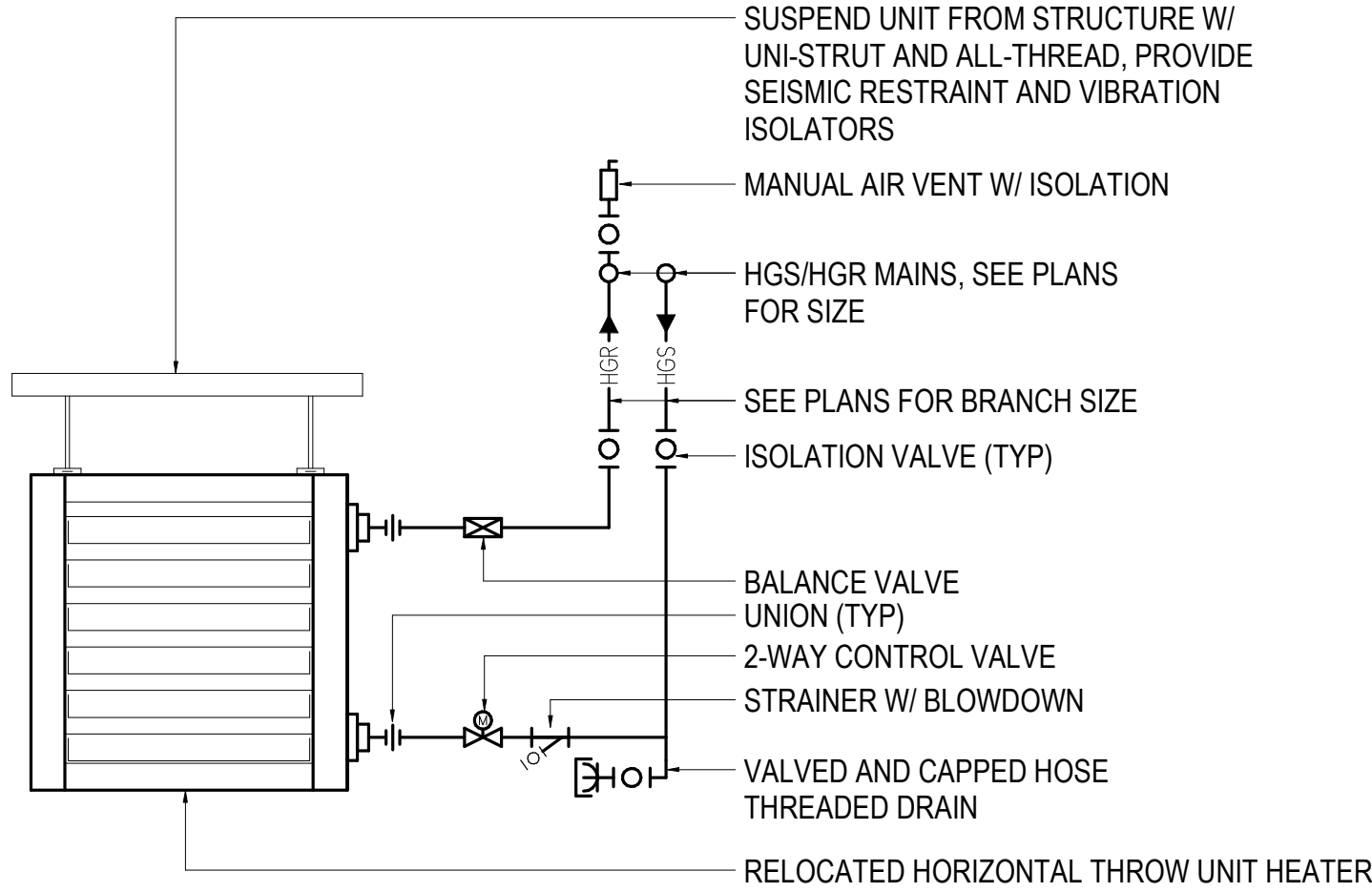
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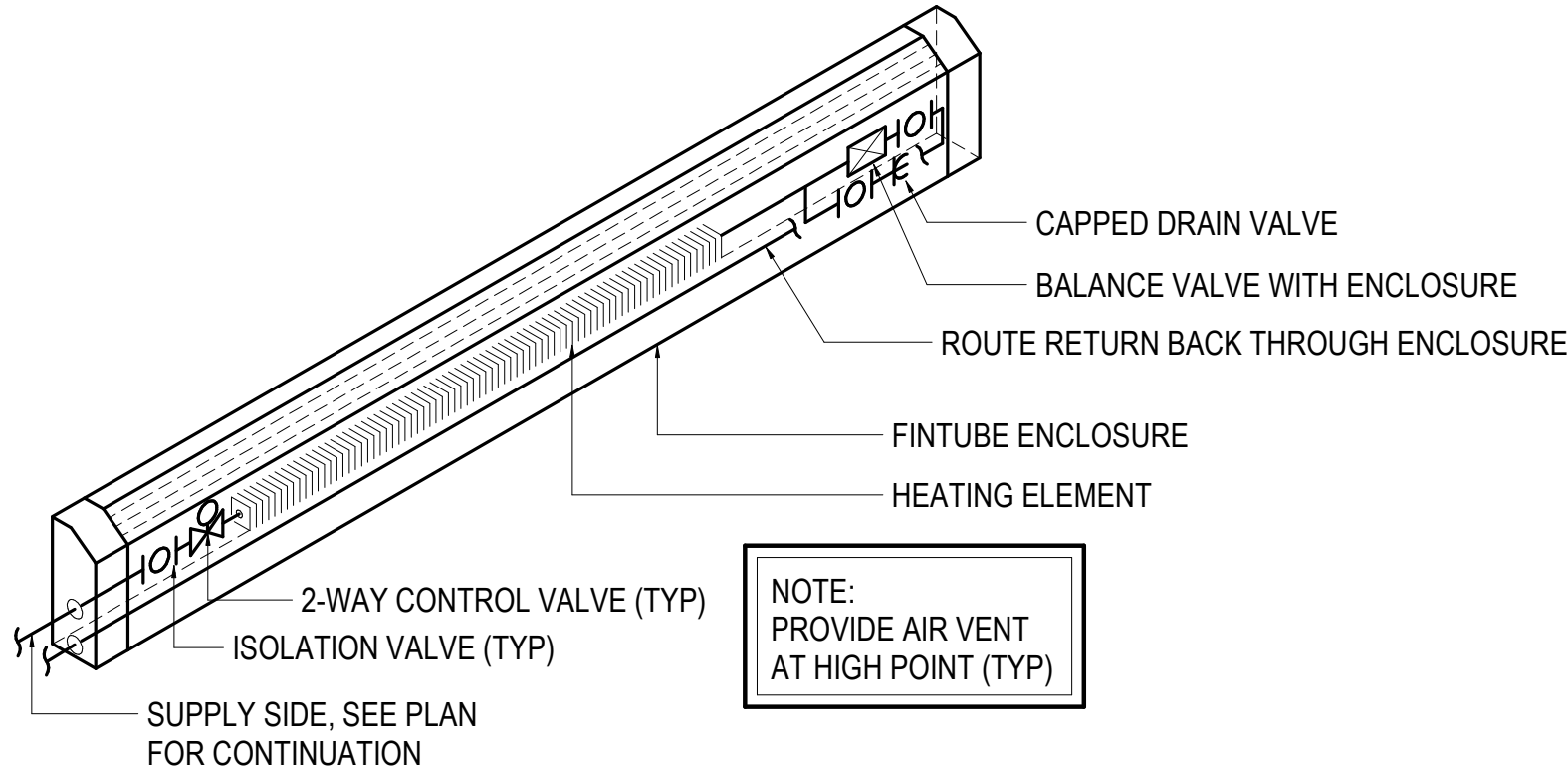
MUNICIPALITY OF ANCHORAGE
**FIRE STATION 6 OFFICE
 RENOVATION**
 ANCHORAGE, ALASKA

DATE:	04/22/2026
DRAWN:	RTH
CHECKED:	IW
PROJECT:	M6022
DRAWING TITLE:	HVAC REMODEL
REVISIONS:	
SHEET NO:	M201

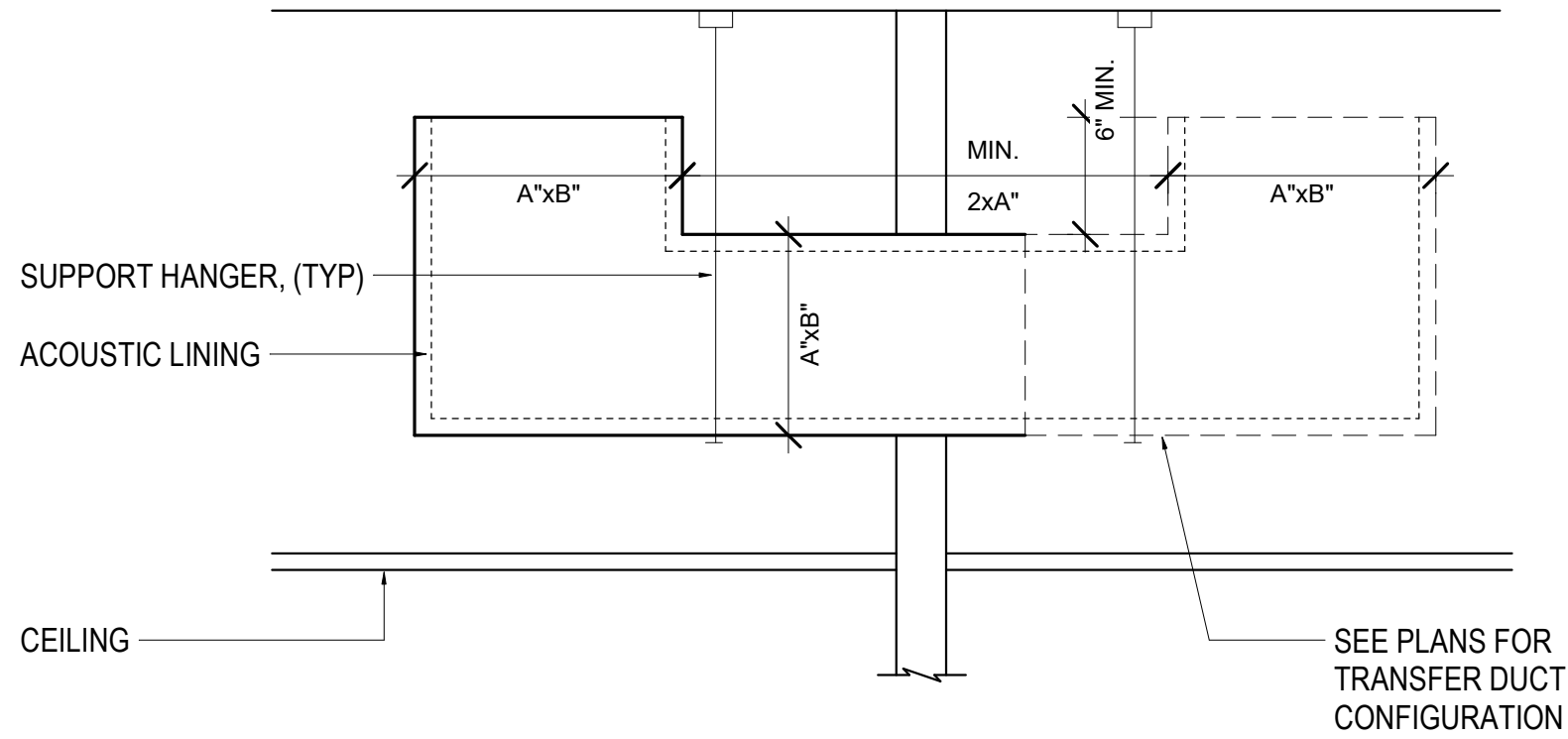
CONSTRUCTION DOCUMENTS



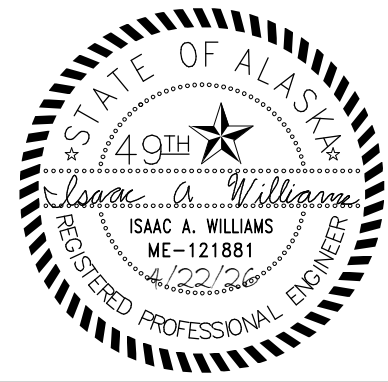
1 UNIT HEATER DETAIL - 2 WAY
NOT TO SCALE



2 FINTUBE HEATER DETAIL
NOT TO SCALE



3 AIR TRANSFER DUCT DETAIL
NOT TO SCALE



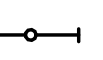
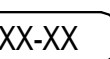
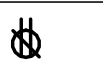
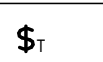
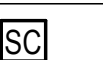
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MUNICIPALITY OF ANCHORAGE
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ANCHORAGE, ALASKA

DATE: 04/22/2026
DRAWN: RTH
CHECKED: IW
PROJECT: M6022
DRAWING TITLE:
MECHANICAL DETAILS
REVISIONS:
SHEET NO:

M301

ELECTRICAL LEGEND			
	LIGHT FIXTURE - SURFACE MTD ON WALL		HIGH POWER AMPLIFIER
	EMERGENCY EXIT SIGN - SURFACE MTD WALL		POWER MODULE
	LINEAR LIGHT FIXTURE - RECESSED MTD		MASTER CONTROL UNIT
	LINEAR LIGHT FIXTURE - SURFACE MTD CLG		RADIO ISOLATION UNIT
	STRIPLIGHT - PENDANT OR SURFACE MTD CLG		STATION PAGING MODULE
	FIXTURE TAG (LETTER INDICATES TYPE)		HIGH POWER HORN
	SINGLE POLE SWITCH		PHOTOELECTRIC SMOKE DETECTOR
	DIMMER SWITCH		DUPLEX RECEPTACLE TO BE REMOVED (DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED TYPICAL)
	OCCUPANCY SENSOR WALL SWITCH (DUALTECH)		NOTE TAG (No. INDICATES NOTE)
	OCCUPANCY SENSOR - CEILING MOUNTED (DUALTECH)		CIRCUIT TAG (No. INDICATES CIRCUIT)
	CONDUIT, CONCEALED		ABOVE FINISHED FLOOR
	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)		CONDUIT
	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)		DENOTES EXISITNG ITEM
	PANEL		GROUND FAULT CIRCUIT INTERRUPTER
	DUPLEX RECEPTACLE		KELVIN
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER		LIGHT EMITTING DIODE
	QUADRAPLEX RECEPTACLE		LUMENS
	JUNCTION BOX		NATIONAL ELECTRICAL CODE
	MOTOR (SIZED AS SHOWN)		DENOTES EXISTING ITEM THAT HAS BEEN RELOCATED
	FRACTIONAL HORSEPOWER MOTOR STARTER		TELEPHONE TERMINAL BACKBOARD
	TELECOMMUNICATION OUTLET, 2-PORTS		TYPICAL
	WESTNET SATELLITE		UNLESS OTHERWISE NOTED
	WESTNET SATELLITE CONTROLLER		

LIGHT FIXTURE SCHEDULE								
TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS	BALLAST/DRIVER	TOTAL INPUT WATTS
				TYPE	HEIGHT			
A	OFFICE	LITHONIA LIGHTING #2BLT2-33L-ADSM-GZ1-LP840	2'X2' LED TROFFER, CURVED ACRYLIC DIFFUSER.	RECESSED	CEILING	4,000K LED 3,391 LM	120/277V DRIVER, 0-10V DIMMING TO 1%	27
B	STORAGE ROOM	LITHONIA LIGHTING #CLX-L48-4000LM-SEF-RDL- MVOLT-GZ1-40K-80CRI-WH	STRIP FIXTURE, ROUND LENS, WHITE FINISH.	PENDANT	+9'-2" AFF	4,000K LED 4,237 LM	120/277V DRIVER	26

- 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL
- A.

SCOPE OF WORK: FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT FOR AN EXTENSION TO THE EXISTING ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.
- B.

STANDARDS, CODES AND REGULATIONS: COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, AND INTERNATIONAL FIRE CODE INCLUDING ALL STATE AND LOCAL AMENDMENTS TO THESE CODES. COMPLY WITH THE LATEST PUBLISHED VERSION OF THE NECA STANDARD OF INSTALLATION.
- C.

DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. UNLESS SPECIFICALLY DIMENSIONED. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITIES REGULATIONS TO THE ATTENTION OF THE ARCHITECT/ENGINEER. CODES, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.
- D.

RECORD DRAWINGS: MARK UP A CLEAN SET OF DRAWINGS AS THE WORK PROGRESSES TO SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL ELECTRICAL WORK WHICH WILL BECOME PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN.
- E.

WORKMANSHIP: INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS AND IN ACCORDANCE WITH NECA STANDARDS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, NEMA STANDARDS AND UNDERWRITERS LABORATORIES STANDARDS WHERE APPLICABLE.
- F.

SUBMITTALS: PROVIDE MATERIAL AND EQUIPMENT SUBMITTALS CONTAINING A COMPLETE LISTING OF MATERIAL AND EQUIPMENT SHOWN ON THE DRAWINGS. INCLUDE CATALOG NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. SUBMITTALS SHALL BE IN ELECTRONIC .PDF FORMAT, SEPARATE FROM WORK FURNISHED UNDER OTHER DIVISIONS. INDEX AND CLEARLY IDENTIFY ALL MATERIAL AND EQUIPMENT BY ITEM, NAME OR DESIGNATION USED ON THE DRAWINGS. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY AND DOES NOT RELIEVE THE CONTRACTOR FROM ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE SUBMITTALS ARE NOT CHECKED FOR QUANTITY, DIMENSION, OR FOR PROPER OPERATION. WHERE DEVIATIONS OF A SUBSTITUTE PRODUCT OR SYSTEM PERFORMANCE HAVE NOT BEEN SPECIFICALLY NOTED IN THE SUBMITTAL BY THE CONTRACTOR, PROVISIONS OF A COMPLETE AND SATISFACTORY WORKING INSTALLATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- G.

WARRANTY: THE CONTRACTOR SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM BENEFICIAL OCCUPANCY. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.
- H.

PERMITS: SECURE AND PAY FOR ALL FEES, PERMITS, ETC. REQUIRED BY LOCAL AND STATE AGENCIES.
- I.

REFERENCE SYMBOLS: THE ELECTRICAL "LEGEND" ON THE DRAWINGS IS A STANDARDIZED VERSION, AND ALL SYMBOLS SHOWN MAY NOT BE USED. USE THE "LEGEND" AS A REFERENCE FOR THE SYMBOLS USED ON THE DRAWINGS.
- J.

PENETRATION OF FIRE BARRIERS: ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED BARRIERS SHALL BE SEALED IN ACCORDANCE WITH NEC ARTICLE 300.21 AND THE FOLLOWING:
- K.

ALL HOLES OR VOIDS CREATED TO EXTEND ELECTRICAL SYSTEMS THROUGH FIRE RATED FLOORS, WALLS OR CEILING SHALL BE SEALED WITH AN ASBESTOS-FREE INTUMESCENT FIRE STOPPING MATERIAL CAPABLE OF EXPANDING 8 TO 10 TIMES WHEN EXPOSED TO TEMPERATURES 250 DEGREES F OR HIGHER.
- L.

MATERIALS SHALL BE SUITABLE FOR THE FIRE STOPPING OF PENETRATIONS MADE BY STEEL, GLASS, PLASTIC AND SHALL BE CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME, SMOKE AND GASES IN COMPLIANCE WITH THE REQUIREMENTS OF ASTM E814, UL 1479 AND THE UL FIRE RESISTANCE DIRECTORY REQUIREMENTS FOR THROUGH-PENETRATION FIRESTOP DEVICES (XHCR).
- M.

THE RATING OF THE FIRE STOPS SHALL BE THE SAME AS THE TIME-RATED FLOOR, WALL OR CEILING ASSEMBLY.
- N.

INSTALL FIRE STOPPING MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

- 26 05 05 - SELECTIVE DEMOLITION FOR ELECTRICAL
- A.

DEMOLITION DRAWINGS ARE BASED ON NON-DESTRUCTIVE FIELD OBSERVATION AND EXISTING RECORD DRAWING. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DISTURBING THE EXISTING INSTALLATION. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN ALL EXISTING ELECTRICAL SYSTEMS (TELEPHONE, FIRE ALARM, LIGHTING, ELECTRICAL SERVICE, ETC.) IN SERVICE DURING CONSTRUCTION. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS.
- B.

OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION AND MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
- C.

REMOVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. WHERE ABANDONED CONDUIT ENTERS EXISTING SURFACES TO REMAIN, CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.
- D.

CONTRACTOR TO FIELD VERIFY CONDUITS AND ELECTRICAL ITEMS IN WALLS TO BE DEMOLISHED PRIOR TO START OF WORK. DEMOLISH CONDUITS, BOXES, DEVICES, EQUIPMENT, ETC. IN WALLS THAT ARE SCHEDULED FOR DEMOLITION. WHERE CONDUITS PASS THROUGH THE WALLS OR CIRCUITS ARE SHARED WITH EQUIPMENT THAT IS EXISTING TO REMAIN, PROVIDE ALL WORK NECESSARY (INCLUDING EXTENDING AND RE-ROUTING CONDUITS) TO MAINTAIN ACCESS AND PROVIDE ELECTRICAL CONTINUITY TO EXISTING SYSTEMS AND CIRCUITRY.
- | PROJECT SUMMARY |
|--|
| EXISTING STORAGE ROOM TO BE SPLIT IN HALF TO ACCOMODATE NEW OFFICE AREA. NEW LIGHTING, POWER, COMMUNICATION, AND SIGNALING EQUIPMENT TO BE PROVIDED TO ACCOMODATE REMODEL. |
- | ELECTRICAL LOAD CALCULATION | | | |
|---|--|--------|----------------|
| EXISTING SERVICE SIZE: | | 600 | A, 208 V, 3 PH |
| EXISTING PANEL 'P1': | | 200 | A, 208 V, 3 PH |
| PEAK KW DEMAND - PAST 12 MO (BUILDING, FEB 2026): | | 25.68 | KW |
| ASSUMED POWER FACTOR: | | 0.9 | PF |
| EXISTING PEAK DEMAND (IN KVA): | | 28.53 | KVA |
| 125% OF PEAK LOAD (NEC 220.87) | | 35.67 | KVA |
| EXISTING PEAK DEMAND (IN AMPS): | | 99 | A |
| EXISTING SPARE CAPACITY (SERVICE): | | 501 | A |
| EXISTING SPARECAPACITY (PANEL 'P1'): | | 101 | A |
| EXISTING LOADS REMOVED (IN KVA): | | | |
| LIGHTING | | 0.11 | KVA |
| RECEPTACLES | | 0.36 | KVA |
| SUBTOTAL: | | 0.47 | KVA |
| TOTAL LOADS REMOVED: | | -0.472 | KVA |
| TOTAL LOADS REMOVED (IN AMPS): | | -1 | A |
| NEW LOADS ADDED (IN KVA) | | | |
| LIGHTING | | 0.16 | KVA |
| RECEPTACLES | | 1.62 | KVA |
| SMOKE DETECTOR | | 0.05 | KVA |
| REFRIGERATOR | | 1.20 | KVA |
| SUBTOTAL: | | 3.03 | KVA |
| TOTAL LOADS ADDED: | | 3.033 | KVA |
| TOTAL LOADS ADDED (IN AMPS): | | 8 | A |
| NET LOAD CHANGE: | | 2.561 | KVA |
| NET LOAD CHANGE (IN AMPS): | | 7 | A |
| NEW TOTAL NEC DEMAND LOAD: | | 38.23 | KVA |
| NEW TOTAL NEC DEMAND LOAD: | | 106 | A |
| SPARE CAPACITY (SERVICE): | | 494 | A |
| SPARE CAPACITY (PANEL 'P1'): | | 94 | A |
| RESULT: THE EXISTING SERVICE AND PANEL HAVE ADEQUATE CAPACITY FOR THE ADDITIONAL LOADS ADDED. | | | |
-
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Corporate No.: AEC0542
- MUNICIPALITY OF ANCHORAGE

FIRE STATION 6 OFFICE RENOVATION

ANCHORAGE, ALASKA
- | | |
|----------------|--|
| DATE: | 04/21/26 |
| DRAWN: | AWK |
| CHECKED: | SLB,CSZ |
| PROJECT: | M6022 |
| DRAWING TITLE: | ELECTRICAL LEGEND, SCHEDULE, CALCS, AND SPECIFICATIONS |
| REVISIONS: | |
| SHEET NO: | E001 |
- CONSTRUCTION DRAWINGS

SPECIFICATIONS CONT.

- 26 05 19 - WIRE AND CABLE**
A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
B. MATERIALS:
1. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN INSULATION. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE #12 AWG. MINIMUM CONTROL CIRCUIT CONDUCTOR SIZE SHALL BE #18 AWG.
2. CONTROL CIRCUITS SHALL BE COPPER, STRANDED CONDUCTOR, 600V INSULATION, THHN, MINIMUM SIZE 18 AWG.
3. TYPE MC CABLE: SOLID COPPER CONDUCTOR, 600 VOLT THERMOPLASTIC INSULATION, RATED 90° C, INSULATED GREEN GROUNDING CONDUCTOR, AND GALVANIZED STEEL ARMOR OVER MYLAR. MC CABLE USED FOR FIRE ALARM WIRING SHALL BE COLORED RED AND LISTED FOR FIRE ALARM USE.
4. 0-10V DIMMING/POWER MC CABLE (TYPE MC-PCS), SIZE #12 THROUGH #10 AWG WITH 16-2 CONTROL CABLES: SOLID COPPER CONDUCTOR, 600 VOLT THERMOPLASTIC INSULATION, RATED 90° C DRY, 75° C WET, INSULATED GREEN GROUNDING CONDUCTOR, AND GALVANIZED STEEL OR ALUMINUM ARMOR OVER MYLAR.
C. INSTALLATION:
1. COLOR CODE WIRES BY LINE OR PHASE. COLOR CODE THE 120/208V CONDUCTORS BLACK, RED, BLUE, AND WHITE.
2. DO NOT SHARE NEUTRAL CONDUCTORS. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT THAT REQUIRES A NEUTRAL.
3. USE PROPERLY SIZED INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR ALL CONDUCTORS #8 AWG AND SMALLER.
4. INSTALLATION SCHEDULE: BUILDING WIRE IN RACEWAYS AT ALL LOCATIONS UNLESS OTHERWISE NOTED. PROVIDE XHHW-2 FOR FEEDERS AND IN EXTERIOR LOCATIONS. METAL CLAD CABLE USED FOR BRANCH CIRCUIT WIRING FROM A LIGHT SWITCH OR LIGHTING CONTROL STATION TO THE LIGHT FIXTURE SHALL INCLUDE A NEUTRAL CONDUCTOR. METAL CLAD CABLE USED FOR BRANCH CIRCUIT WIRING TO LED FIXTURES THAT HAVE 0-10V DIMMING CAPABILITY SHALL BE TYPE MC-PCS.
5. AT THE CONTRACTOR'S OPTION, PORTIONS OF THE FIRE ALARM WIRING IN DRY, CONCEALED LOCATIONS MAY BE INSTALLED IN FIRE ALARM METAL CLAD CABLE.

- 26 05 29 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS**
A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
B. MATERIAL: SUPPORT CHANNEL SHALL BE GALVANIZED OR PAINTED STEEL. HARDWARE SHALL BE CORROSION RESISTANT.
C. INSTALLATION: EQUIPMENT WEIGHING MORE THAN 50 POUNDS SHALL BE ADEQUATELY ANCHORED TO THE BUILDING STRUCTURE TO RESIST LATERAL EARTHQUAKE FORCES. PROVIDE SAFETY CHAINS FOR LIGHT FIXTURES, SUPPORTED FROM T-BAR OR OTHER CEILING SUSPENSION SYSTEM, CAPABLE OF SUPPORTING A MINIMUM OF 200 POUNDS. ATTACH SAFETY CHAINS AT EACH CORNER OF FIXTURE CONNECTED SUCH THAT FIXTURE WILL NOT DROP BELOW A HEIGHT OF 7'-6" IN THE EVENT OF A CEILING SUSPENSION SYSTEM FAILURE.

- 26 05 33 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS**
A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
B. MATERIALS
1. RIGID STEEL CONDUIT: ANSI C80.1. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; THREADED TYPE WITH INSULATED THROAT BUSHINGS, MATERIAL TO MATCH CONDUIT. INTERMEDIATE METAL CONDUIT (IMC): GALVANIZED STEEL. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; USE FITTINGS AND CONDUIT BODIES SPECIFIED ABOVE FOR RIGID STEEL CONDUIT.
3. ELECTRICAL METALLIC TUBING CONDUIT (EMT): ANSI C80.3. GALVANIZED TUBING. FITTINGS AND CONDUIT BODIES: ANSINEMA FB 1; STEEL OR MALLEABLE IRON, COMPRESSION TYPE OR SET SCREW FITTINGS WITH INSULATED THROAT BUSHINGS. DIE-CAST FITTINGS ARE NOT ACCEPTABLE. MAXIMUM SIZE SHALL BE 2". PROVIDE FACTORY ELBOWS ON SIZES 1-1/2" AND LARGER.
4. FLEXIBLE METAL CONDUIT: FS WW-C-566; STEEL, FULL WALL OR REDUCED WALL THICKNESS. FITTINGS AND CONDUIT BODIES: ANSINEMA FB 1; STEEL OR MALLEABLE IRON WITH INSULATED THROAT BUSHINGS. DIE CAST FITTINGS ARE NOT ACCEPTABLE.
5. PROVIDE GALVANIZED OR CADMIUM PLATED, ONE PIECE PRESSED STEEL OUTLET BOXES 4 INCH SQUARE OR OCTAGONAL, 1-1/2 INCHES DEEP MINIMUM SIZE FOR USE IN INTERIOR AREAS.
6. FOR TELECOMMUNICATIONS SYSTEMS, OUTLET BOXES SHALL BE 4 INCHES SQUARE, 2-1/4 INCHES DEEP MINIMUM.
7. CUT-IN BOXES: MINIMUM SIZE 2" X 3" X 2-1/2" DEEP. PROVIDE CUT-IN OUTLET BOXES WHERE REQUIRED FOR INSTALLATION IN EXISTING WALLS.
C. INSTALLATION:
1. INSTALL CONDUIT FOR ALL SYSTEMS UNLESS OTHERWISE NOTED, 1/2 INCH MINIMUM SIZE, EXCEPT CONDUIT FOR SPECIAL SYSTEMS SHALL BE 3/4" MINIMUM.
2. EXPOSED DRY INTERIOR LOCATIONS SHALL BE RIGID STEEL CONDUIT OR INTERMEDIATE METAL CONDUIT. ELECTRICAL METALLIC TUBING MAY BE USED EXPOSED WHEN INSTALLED ON THE CEILING, A MINIMUM OF TEN FEET ABOVE THE FLOOR OR WHERE NOT SUBJECT TO PHYSICAL DAMAGE. EMT MAY ALSO BE USED FOR CONCEALED, DRY, INTERIOR LOCATIONS.
3. MOTOR AND EQUIPMENT CONNECTIONS SHALL BE SHORT EXTENSIONS OF FLEXIBLE METAL CONDUIT TO ALLOW FOR VIBRATION.
4. INSTALL RACEWAYS PER THE LATEST NECA (NATIONAL ELECTRICAL CONTRACTOR 'S ASSOCIATION) STANDARDS.
5. PROVIDE RACEWAYS CONCEALED IN CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE, OR WHERE INSTALLED AT SURFACE CABINETS, MOTOR AND EQUIPMENT CONNECTIONS AND IN MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS. DO NOT ROUTE CONDUITS OUTSIDE OF EXTERIOR WALLS, OR ALONG THE SURFACE OF INTERIOR FINISHED WALLS UNLESS SPECIFICALLY NOTED ON THE PLANS
6. PAINT ALL EXPOSED CONDUIT IN FINISHED AREAS TO MATCH SURFACE TO WHICH IT IS ATTACHED OR CROSSES. CLEAN GREASY OR DIRTY CONDUIT PRIOR TO PAINTING IN ACCORDANCE WITH PAINT MANUFACTURER'S INSTRUCTIONS.
7. INSTALL RACEWAYS LEVEL AND SQUARE TO A TOLERANCE OF 1/8 INCH PER 10 FEET. ROUTE EXPOSED RACEWAYS AND RACEWAYS ABOVE ACCESSIBLE CEILINGS PARALLEL AND PERPENDICULAR TO WALLS, CEILING, STRUCTURAL MEMBERS AND ADJACENT PIPING.
8. ALL CONDUIT FOR THE TELECOMMUNICATIONS DISTRIBUTION SYSTEM SHALL BE INSTALLED WITH NO MORE THAN 270 DEGREES OF BENDS BETWEEN PULLBOXES. PULL BOXES SHALL NOT BE USED IN LIEU OF CONDUIT BENDS. CONDULETS (LB FITTINGS) SHALL NOT BE INSTALLED IN ANY TELECOMMUNICATIONS RACEWAY.
9. PROVIDE OUTLET BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, DEVICE INSTALLATION AND CODE COMPLIANCE.
10. INSTALL FITTINGS AND FLEXIBLE METAL CONDUIT TO ACCOMMODATE 3-AXIS MOVEMENTS WHERE RACEWAY CROSSES SEISMIC JOINTS. INSTALL FITTINGS DESIGNED AND LISTED TO ACCOMMODATE EXPANSION AND CONTRACTION WHERE RACEWAY CROSSES CONTROL AND EXPANSION JOINTS.
11. DO NOT INSTALL BOXES BACK-TO-BACK IN WALLS. PROVIDE A MINIMUM 6 INCH SEPARATION FOR MINIMUM SOUND TRANSMISSION.
12. USE MULTIPLE-GANG BOXES WHERE MORE THAN ONE DEVICE ARE MOUNTED TOGETHER; DO NOT USE SECTIONAL BOXES.
13. SUPPORT BOXES INDEPENDENTLY OF CONDUIT.

- 26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS**
A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
B. MATERIALS:
1. TAPE LABELS: ADHESIVE TAPE LABELS, WITH 3/16 INCH BOLD BLACK LETTERS ON CLEAR BACKGROUND MADE USING DYMO RHINOPRO 5000 OR EQUAL LABEL PRINTER.
2. WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.
C. INSTALLATION:
1. CONDUITS: MARK ALL NEW CONDUITS ENTERING OR LEAVING PANELBOARDS WITH INDELIBLE BLACK MAGIC MARKER WITH THE CIRCUIT NUMBERS OF THE CIRCUITS CONTAINED INSIDE. LABEL FEEDER CONDUITS AND SPARE CONDUITS AT EACH END WITH SOURCE AND TERMINATION POINT.
2. JUNCTION BOXES: MARK ALL CIRCUIT NUMBERS OF WIRING ON ALL JUNCTION BOXES WITH SHEET STEEL COVERS. MARK WITH INDELIBLE BLACK MARKER. ON EXPOSED JUNCTION BOXES IN PUBLIC AREAS, MARK ON INSIDE OF COVER. MARK ALL FIRE ALARM SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS WITH "FA." MARK WITH INDELIBLE RED MARKER. MARK ALL OTHER SPECIAL SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS.
3. WIRE IDENTIFICATION: PROVIDE WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTION. MARKERS SHALL BE LOCATED WITHIN ONE INCH OF EACH CABLE END, EXCEPT AT PANELBOARDS, WHERE MARKERS FOR BRANCH CIRCUIT CONDUCTORS SHALL BE VISIBLE WITHOUT REMOVING PANEL DEADFRONT.
4. DEVICE PLATES: LABEL EACH RECEPACLE DEVICE PLATE OR POINT OF CONNECTION DENOTING THE PANELBOARD NAME AND CIRCUIT NUMBER. INSTALL LABEL ON THE TOP OF EACH PLATE.

- 26 09 23 - LIGHTING CONTROL DEVICES**
A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
B. MATERIALS:
1. MANUFACTURERS: WATTSTOPPER, SENSOR SWITCH, HUBBELL OR EQUAL.
2. OCCUPANCY SENSOR WALL SWITCH: UL LISTED, DUAL TECHNOLOGY (PIR/ULTRASONIC OR MICROPHONICS), SELF-LEARNING, PROGRAMMABLE TIME SETTINGS, ADJUSTABLE SENSITIVITY, SUITABLE FOR INSTALLATION IN A SINGLE GANG BOX, LINE VOLTAGE OR LOW VOLTAGE, WHITE FINISH, 600W MINIMUM RATING, PROVIDE ONE OR TWO BUTTONS OR INTEGRAL DIMMER WHERE NOTED ON PLANS.
3. CEILING MOUNTED OCCUPANCY SENSOR: UL LISTED, 120/277V DUAL TECHNOLOGY (PIR/ULTRASONIC OR MICROPHONICS), SELF-LEARNING, PROGRAMMABLE TIME SETTINGS, ADJUSTABLE SENSITIVITY, LINE VOLTAGE (120/277V) OR LOW VOLTAGE (12-24VDC), WHITE FINISH, PROVIDE MINIMUM WATTAGE RATING OR ADDITIONAL POWER PACKS AS REQUIRED TO CONTROL THE LOADS INDICATED ON THE PLANS.
C. INSTALLATION:
1. INSTALL WALL OCCUPANCY SENSOR SWITCHES 48 INCHES ABOVE FLOOR.
2. FIELD ADJUST OCCUPANCY SENSORS FOR PROPER OPERATION IN THE SPACE. PROVIDE MASKING ON INFRARED LENS TO RESTRICT FIELD OF VIEW IF NECESSARY TO PREVENT UNWANTED SWITCHING FROM ADJACENT SPACES SUCH AS HALLWAYS.
3. PROVIDE ALL PROGRAMMING AS REQUIRED TO CONNECT AND OPERATE ALL CONNECTED FIXTURES.
4. COORDINATE WITH OWNER FOR FINAL LIGHTING CONTROL SEQUENCES AND TIMER SETTINGS.
5. LOCATE POWER PACKS AND SIMILAR DEVICES IN CONCEALED, ACCESSIBLE AREAS.

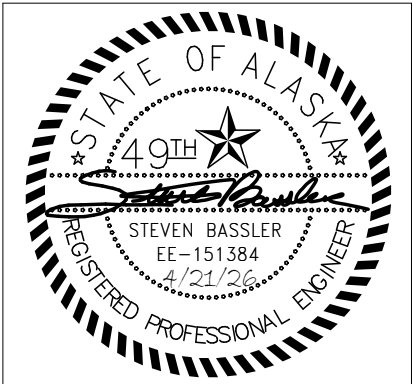
- 26 24 16 - PANELBOARDS**
A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
B. MATERIAL:
1. MANUFACTURERS: SIEMENS.
2. NEW BREAKERS IN EXISTING PANELS: NEMA AB 1; UL LISTED FOR USE IN THE PANEL, AMPERE RATING AND NUMBER OF POLES AS INDICATED ON PLANS. AIC RATING SHALL MATCH THE LOWEST RATED DEVICE IN THE PANEL.
C. INSTALLATION:
1. INSTALL NEW BREAKER IN EXISTING PANEL AND TEST FOR PROPER OPERATION. UPDATE CIRCUIT DIRECTORY TO REFLECT ALL CHANGES.

- 26 27 26 - WIRING DEVICES**
A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
B. MATERIALS:
1. WALL SWITCHES: SWITCHES FOR LIGHTING CIRCUITS SHALL BE ANSI/NEMA WD6 AND FEDERAL SPECIFICATION FS W-S-896 AC GENERAL USE SNAP SWITCH WITH TOGGLE HANDLE, RATED 20 AMPERES AND 120-277 VOLTS AC. HANDLE: WHITE NYLON.
2. RECEPACLDES: CONVENIENCE AND STRAIGHT BLADE RECEPACLDES SHALL BE NEMA AND FEDERAL SPECIFICATION FS W-C-596, TYPE S-20R, WHITE NYLON FACE.
3. WALL DIMMERS FOR 0-10V LED CIRCUITS: UL 1472: ANSI/NEMA WD6; DECORA-STYLE, COMMERCIAL GRADE PRESET WALL DIMMER SWITCH, 0-10V CONTROL FOR LED DRIVERS WITH NO POWER PACK REQUIRED TO SWITCH LINE VOLTAGE LOAD (8 A, 120-277 V); ADJUSTABLE HIGH-END AND LOW-END TRIM. COLOR: WHITE. HANDLE: PADDLE SWITCH FOR ON/OFF OPERATION WITH SMALL, DISCRETE, CAPTIVE LINEAR SLIDE FOR DIMMER ADJUSTMENT. PROVIDE SINGLE POLE UNLESS OTHERWISE INDICATED ON PLANS. DIMMER SHALL BE FULLY COMPATIBLE WITH ALL LOADS CONNECTED FOR SMOOTH, FLICKER-FREE DIMMING OPERATION.
4. WALL PLATES: DECORATIVE COVER PLATES IN FINISHED AREAS SHALL BE 430 OR 302 STAINLESS STEEL. PROVIDE 1/2 INCH RAISED, SQUARE, GALVANIZED OR CADMIUM PLATED, PRESSED STEEL COVER PLATE SUPPORTING DEVICES INDEPENDENT OF THE OUTLET BOX FOR ALL EXPOSED WORK.
C. INSTALLATION:
1. UNLESS OTHERWISE NOTED ON THE DRAWINGS, INSTALL RECEPACLDES 18 INCHES ABOVE FINISH FLOOR, 4 INCHES ABOVE COUNTERS AND BACKSPLASHES WITH GROUNDING POLE ON BOTTOM. UNLESS OTHERWISE NOTED DIMENSIONS ARE TO CENTERLINE OF OUTLET.
2. INSTALL WALL SWITCHES AND DIMMERS 48 INCHES ABOVE FLOOR, OFF POSITION DOWN.
3. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE-MOUNTED OUTLETS.

- 26 50 00 - LIGHTING FIXTURES**
A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
B. MATERIALS:
1. LUMINAIRES: PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT OR APPROVED EQUAL AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE "FIXTURE SCHEDULE". PROVIDE LIGHTING EQUIPMENT COMPLETE, WIRED, ASSEMBLED, WITH PROPER FLANGES, MOUNTING SUPPORTS, HARDWARE, ETC. ALL LIGHTING EQUIPMENT INSTALLED IN LAY-IN TYPE CEILINGS SHALL BE PROVIDED WITH SAFETY CHAINS, CAPABLE OF SUPPORTING 200 POUNDS, SECURELY FASTENED TO THE LIGHT FIXTURE AND THE BUILDING STRUCTURE SO THAT NO PART OF THE FIXTURE WILL DROP BELOW A HEIGHT OF 7'-6" ABOVE THE FLOOR IN THE EVENT OF A CEILING SUSPENSION SYSTEM FAILURE.
2. LED DRIVERS: PROVIDE UL LISTED POWER SUPPLY AS RECOMMENDED BY THE LED FIXTURE MANUFACTURER FOR OPERATION OF THE SPECIFIED LED LAMPS. POWER SUPPLY SHALL BE INTEGRAL TO THE LUMINAIRE UNLESS OTHERWISE NOTED ON THE PLANS. POWER SUPPLY SHALL OPERATE AT THE SUPPLY VOLTAGE INDICATED ON THE PLANS AND SHALL BE LISTED FOR STARTING AND OPERATING THE LAMPS AT 75F AVERAGE INDOOR TEMPERATURE.
3. LED DIMMING DRIVERS: PROVIDE UL LISTED 0-10V DIMMING BALLAST AS RECOMMENDED BY THE LED FIXTURE MANUFACTURER FOR OPERATION OF THE SPECIFIED LED LAMPS, FULLY COMPATIBLE WITH THE DIMMING SYSTEM OR DIMMING SWITCH CONTROLLING THE FIXTURE. DRIVER SHALL BE INTEGRAL TO THE FIXTURE AND CAPABLE OF DIMMING THE LUMINAIRE TO 20% OUTPUT MINIMUM UNLESS OTHERWISE SCHEDULED ON THE PLANS. POWER SUPPLY SHALL BE DUAL VOLTAGE (120/277V) WHERE AVAILABLE AND OPERATE AT THE SUPPLY VOLTAGE INDICATED ON THE PLANS.
4. LED LAMPS: UNLESS OTHERWISE SCHEDULED ON THE PLANS, PROVIDE NOMINAL 4000K, WITH MINIMUM 75CRI AND A MINIMUM L70 LAMP LIFE OF 50,000 HOURS.
C. INSTALLATION:
1. PENDANT LUMINARIES SHALL BE INSTALLED PLUMB AND LEVEL.
2. INSTALL RECESSED LUMINAIRES TO PERMIT REMOVAL FROM BELOW.
3. SUPPORT LUMINARIES IN SUSPENDED CEILINGS FROM STRUCTURE ABOVE USING A MINIMUM OF (4) ANCHORS IN ACCORDANCE WITH SECTION 26 05 29.
4. PROVIDE LUMINAIRE DISCONNECTING MEANS IN DRIVER CHANNEL OF EACH LIGHT FIXTURE. WHERE THE LUMINAIRE IS FED FROM A MULTI-WIRE BRANCH CIRCUIT, PROVIDE MULTI-POLE DISCONNECT TO SIMULTANEOUSLY BREAK ALL SUPPLY CONDUCTORS TO THE BALLAST, INCLUDING THE GROUNDED CONDUCTOR.

- 27 10 00 - STRUCTURED CABLING**
A. SUMMARY: THIS SECTION INCLUDES REQUIREMENTS FOR DESIGN AND INSTALLATION OF AN EXTENSION TO THE EXISTING TELECOMMUNICATIONS CABLING SYSTEM INCLUDING COMMUNICATIONS CABLE, TELECOMMUNICATIONS JACKS, RACEWAYS, ETC. AS REQUIRED FOR A COMPLETE AND FUNCTIONAL TELECOMMUNICATIONS CABLING SYSTEM. QUALITY ASSURANCE: ALL PRODUCTS SHALL BE OF ONE MANUFACTURER 'S STRUCTURED CABLING SYSTEM. THE MANUFACTURER SHALL BE A COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED WITH A MINIMUM 5 YEARS DOCUMENTED EXPERIENCE. THE INSTALLER SHALL BE A COMPANY SPECIALIZING IN PERFORMING THIS TYPE OF WORK WITH A MINIMUM 3 YEARS DOCUMENTED EXPERIENCE AND MANUFACTURER 'S CERTIFICATION TO INSTALL THE PRODUCT. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS: ANSI/TIA 568-B.1-3, ANSI/TIA 569-A, AND ANSI/TIA 607.
B. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
C. MATERIALS:
1. UTP TELECOMMUNICATION CABLE: PLENUM-RATED CL2P, CATEGORY 6, 4 PAIR, 24 AWG SOLID COPPER CONDUCTOR TELECOMMUNICATIONS CABLE. SUPERIOR ESSEX "DATAGAIN" CMP OR APPROVED EQUAL.
2. UTP TELECOMMUNICATIONS JACK: RJ-45, CATEGORY 6, T568A/B, 8P8C, SINGLE, WHITE FINISH, TELECOMMUNICATIONS JACK WITH FLUSH EXIT WITH SINGLE-GANG FACEPLATES WITH FINISH TO MATCH JACK. ORTRONICS "TRACJACK CLARITY 6" #OR-TJ600 OR APPROVED EQUAL.
3. UTP MODULAR PATCH PANEL: INSTALL NEW CABLES ON EXISTING PATCH PANELS.
4. PATCH CABLES: ALL PATCH CABLES SHALL BE FACTORY MANUFACTURED TO MATCH THE APPLICABLE CABLE/CONNECTIVITY SOLUTION (I.E. THE BERK-TEK/ORTRONICS SYSTEM SHALL USE ORTRONICS MANUFACTURED PATCH CORDS, ETC.). PROVIDE 7-FOOT CATEGORY 6 PATCH CABLES WITH WHITE OR IVORY JACKET FOR CROSS-CONNECT BETWEEN THE TELEPHONE PATCH PANEL AND THE TELECOMMUNICATIONS PATCH PANELS. PROVIDE ONE PATCH CABLE FOR EACH PORT IN ALL THE TELEPHONE PATCH PANELS. PROVIDE 7-FOOT CATEGORY 6 PATCH CABLES WITH BLUE JACKET FOR INSTALLATION BETWEEN NETWORK EQUIPMENT IN THE RACK AND DEDICATED DATA PORTS IN THE TELECOMMUNICATIONS PATCH PANELS. PROVIDE ONE PATCH CABLE FOR EACH PORT IN ALL THE TELECOMMUNICATIONS PATCH PANELS. PROVIDE 9-FOOT LONG CATEGORY 6 PATCH CABLE WITH WHITE OR IVORY JACKET FOR INSTALLATION BETWEEN THE DATA JACKS IN EACH TELECOMMUNICATIONS OUTLET AND THE OWNER-PROVIDED COMPUTERS. PROVIDE ONE PATCH CABLE FOR EACH DATA JACK IN ALL THE TELECOMMUNICATIONS OUTLETS.
5. CABLE SUPPORT: ALL CABLES NOT INSTALLED IN CONDUIT SHALL BE SUPPORTED USING J-HOOKS, CADDY CABLECAT SERIES OR APPROVED EQUAL, WITH A MINIMUM J-HOOK SIZE EQUIVALENT TO CADDY #CAT32 OR APPROVED EQUAL. SIZE ALL J-HOOKS TO SUPPORT THE QUANTITY OF CABLES INSTALLED, PLUS A MINIMUM OF 25% SPARE CAPACITY.
D. INSTALLATION:
1. UNLESS OTHERWISE NOTED, ALL CABLES SHALL BE INSTALLED IN CONDUIT FROM THE TELECOMMUNICATIONS JACK TO THE SPACE ABOVE THE ACCESSIBLE CEILING AND IN CONDUIT THROUGH INACCESSIBLE AREAS. SUPPORT CABLES INSTALLED IN CEILING SPACES WITH J-HOOKS ANCHORED TO THE ROOF STRUCTURE. MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE 4 FEET, MAXIMUM NUMBER OF CABLES ON EACH SUPPORT SHALL BE 25. CABLES SHALL BE ROUTED A MINIMUM OF 5 INCHES FROM POWER LINES 2 KVA OR LESS, 12 INCHES FROM LIGHT FIXTURES, 36 INCHES FROM POWER LINES 5 KVA OR GREATER, 40 INCHES FROM TRANSFORMERS AND MOTORS. STORE A MAXIMUM OF 12 INCHES OF SLACK CABLE AT EACH OUTLET AND A MINIMUM OF 10 FEET OF SLACK CABLE AT EACH RACK. CABLE JACKET SHALL BE MAINTAINED TO WITHIN .5 INCH OF JACK AND TWISTS SHALL BE MAINTAINED TO WITHIN .25 INCH OF TERMINATION POINT. COMPLY WITH CABLE MANUFACTURERS MAXIMUM PULLING TENSION AND MINIMUM BEND RADIUS REQUIREMENTS. DO NOT STRETCH, STRESS, TIGHTLY COIL, BEND OR CRIMP CABLES. CABLES SHALL BE ROUTED SO THAT CABLE LENGTHS DO NOT EXCEED 90 METERS PER ANSI/TIA REQUIREMENTS. PERFORM END-TO-END TESTS OF EACH CABLE AFTER INSTALLATION AND TERMINATION TO SHOW COMPLIANCE WITH ANSI/TIA REQUIREMENTS. EACH UTP CABLE SHALL BE TESTED FOR COMPLIANCE WITH ANSI/TIA 568-B.1 AND ANSI/TIA 568B.2 CATEGORY 6 STANDARDS AFTER INSTALLATION USING A FLUKE #DSX OR APPROVED EQUAL TESTER. PROVIDE TEST RESULTS FOR ALL TESTS NOTED ABOVE IN THE FORM OF PRINTOUTS FROM THE TEST EQUIPMENT AND PROVIDE AN ELECTRONIC COPY OF THE TEST DATA FOR EACH CABLE. WHERE ANY PORTION OF THE SYSTEM DOES NOT MEET THE SPECIFICATIONS, THE CONTRACTOR SHALL CORRECT THE DEVIATION AND REPEAT ANY APPLICABLE TESTING AT NO ADDITIONAL COST TO THE OWNER. ACCEPTANCE OF THE TELECOMMUNICATIONS SYSTEM SHALL BE BASED ON THE RESULTS OF THE ABOVE TESTS, FUNCTIONALITY, AND THE RECEIPT OF DOCUMENTATION.

- 28 46 00 - FIRE DETECTION AND ALARM**
A. SUMMARY: THIS IS A PERFORMANCE TYPE SPECIFICATION DESCRIBING THE MINIMUM ACCEPTABLE FIRE ALARM SYSTEM. THE CONTRACTOR SHALL DESIGN AND INSTALL THE EXTENSION TO THE EXISTING FIRE ALARM AND SMOKE DETECTION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 72 AND ADAG. THE FIRE ALARM DEVICES ON THE DRAWINGS ARE SHOWN IN SUGGESTED LOCATIONS. THE FINAL LOCATIONS OF ALL DEVICES SHALL BE SOLELY DETERMINED BY THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH NFPA 72 AND ADAG. ALL NEW DEVICES ADDED TO THE EXISTING FIRE ALARM CONTROL PANEL SHALL BE UL LISTED FOR OPERATION ON THE EXISTING PANEL.
B. SUBMITTALS: SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR APPROVAL.
C. MATERIALS:
1. MANUFACTURER: MATCH EXISTING TYPE.
2. CONTROL PANEL: MODULAR CONSTRUCTION TYPE WITH A POWER SUPPLY ADEQUATE TO SERVE ALL CONNECTED DEVICES, SUPERVISED DETECTION CIRCUITS WITH ALARM AND TROUBLE INDICATIONS FOR EACH ZONE, SUPERVISED SIGNAL CIRCUITS OF SUFFICIENT CAPACITY FOR THE SIGNAL DEVICES CONNECTED TO THE SYSTEM, AUXILIARY RELAYS AS REQUIRED TO PROVIDE ACCESSORY FUNCTIONS SHOWN ON THE ONE-LINE, A BATTERY OPERATED EMERGENCY POWER SUPPLY WITH CAPACITY FOR OPERATING THE SYSTEM IN A SUPERVISORY MODE FOR 24 HOURS FOLLOWED BY AN ALARM MODE FOR 5 MINUTES, AN ALARM HORN, TROUBLE ACKNOWLEDGE/ALARM SILENCE SWITCH, LAMP TEST SWITCH, AND A RESET SWITCH. PROVIDE ALL PROGRAMMING AND TESTING AS REQUIRED.
3. CEILING MOUNTED SMOKE DETECTOR: ADDRESSABLE, NFPA 72, PHOTOELECTRIC TYPE WITH ADJUSTABLE SENSITIVITY, PLUG-IN BASE, AND VISUAL INDICATION OF DETECTOR ACTUATION, SUITABLE FOR MOUNTING ON 4-INCH OUTLET BOX.
4. FIRE ALARM SYSTEM POWER BRANCH CIRCUITS: BUILDING WIRE AS SPECIFIED IN SECTION 26 05 19.
5. NOTIFICATION APPLIANCE CIRCUITS: MINIMUM #12 AWG COPPER BUILDING WIRE, AS SPECIFIED IN SECTION 26 05 19.
6. INITIATING AND SIGNALING LINE CIRCUITS: TWISTED, SHIELDED OR UNSHIELDED FIRE ALARM CABLE AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. MINIMUM SIZE #16 AWG.
D. INSTALLATION:
1. THE EXTENSION TO THE EXISTING FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2. INSTALL ALL SMOKE DETECTORS A MINIMUM OF THREE FEET FROM ANY AIR SUPPLY, RETURN, OR EXHAUST DIFFUSER AND A MINIMUM OF ONE FOOT FROM ANY LIGHT FIXTURE. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN UP OF ALL TRADES IS COMPLETE AND FINAL. PROTECTIVE DUST COVERS SHALL BE INSTALLED ON ALL DETECTORS PRIOR TO FINAL CLEAN-UP.
4. TEST IN ACCORDANCE WITH NFPA 72 AND LOCAL FIRE DEPARTMENT REQUIREMENTS. PROVIDE A COMPLETED NFPA 72 INSPECTION AND TESTING FORM FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUAL AT THE COMPLETION OF TESTING AND COMMISSIONING THE FIRE ALARM SYSTEM.
5. INSTALL FIRE ALARM WIRING IN A DEDICATED RACEWAY OR CABLING SYSTEM PER SECTION 26 05 33 AND 26 05 19.



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MUNICIPALITY OF ANCHORAGE
**FIRE STATION 6 OFFICE
RENOVATION**
ANCHORAGE, ALASKA

DATE:	04/21/26
DRAWN:	AWK
CHECKED:	SLB,CSZ
PROJECT:	M6022
DRAWING TITLE:	ELECTRICAL SPECIFICATIONS
REVISIONS:	
SHEET NO:	E002

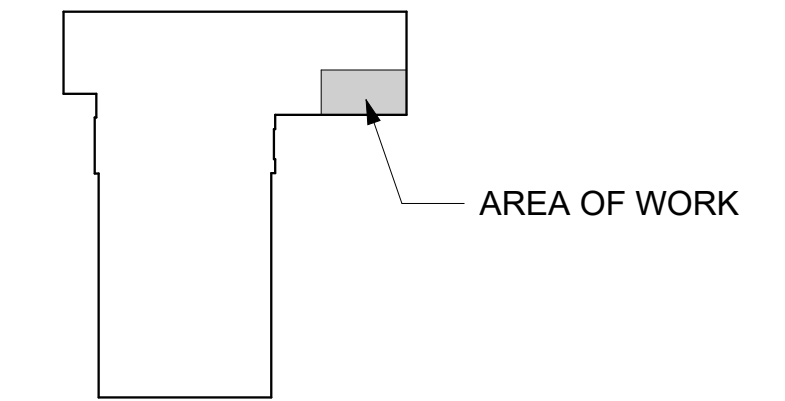
CONSTRUCTION DRAWINGS

GENERAL NOTES:

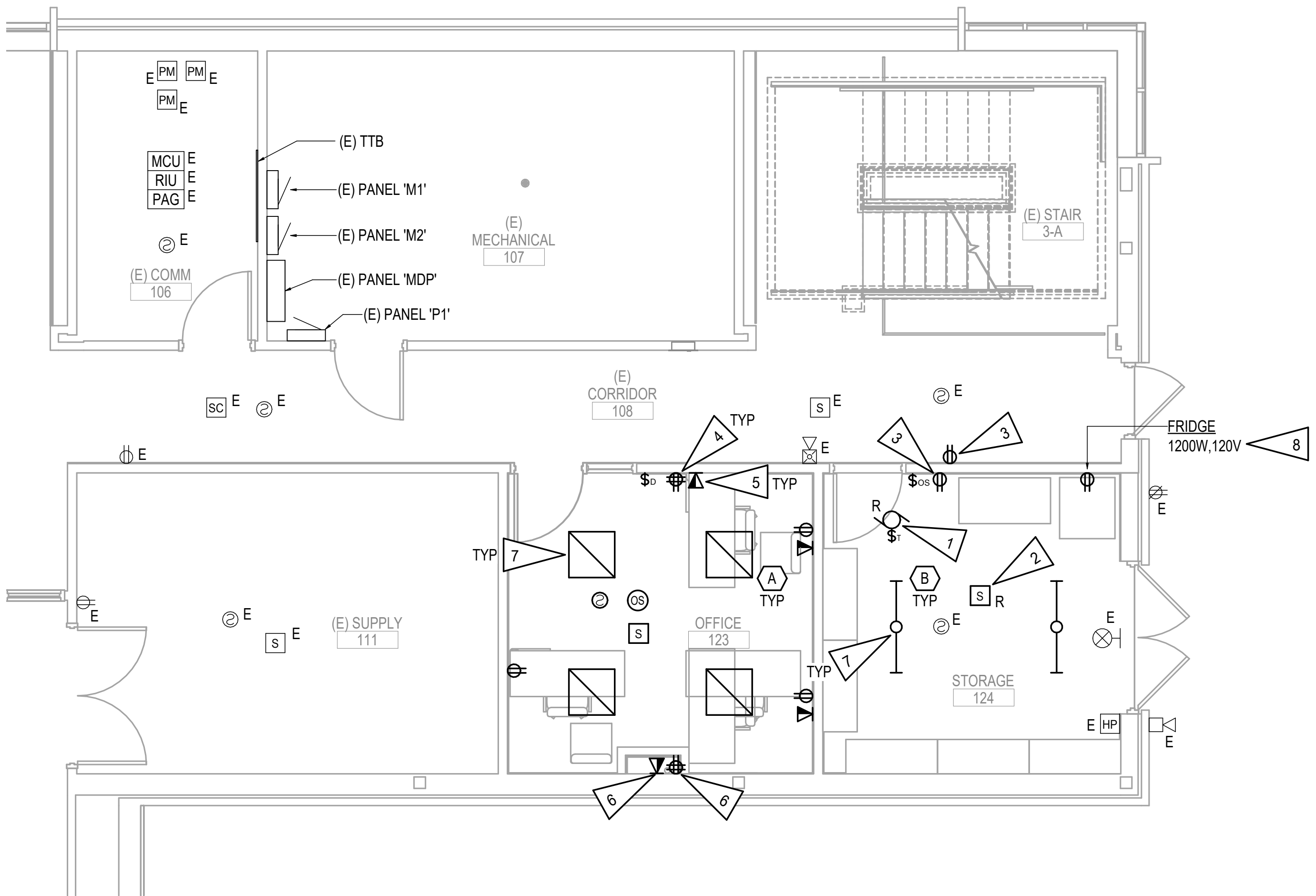
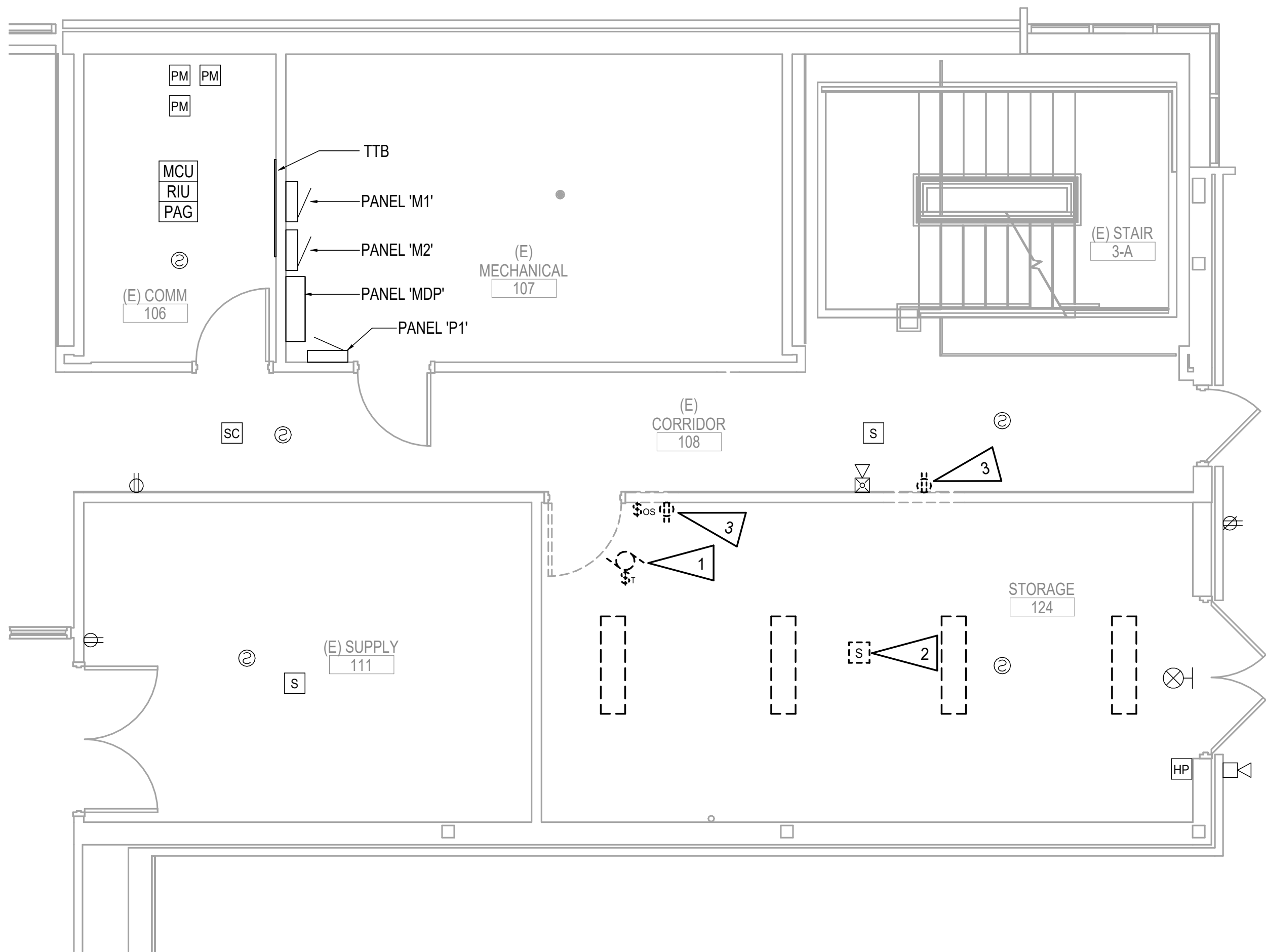
- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

SHEET NOTES:

- 1. EXISTING UNIT HEATER TO BE RELOCATED. EXTEND AND RECONNECT TO EXISTING CIRCUIT, PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED.
- 2. SALVAGE WESTNET SATELLITE AND REINSTALL IN NEW LOCATION, PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED.
- 3. SALVAGE AND EXTEND EXISTING HALLWAY RECEPTACLE CIRCUIT FOR CONNECTION TO NEW RECEPTACLES IN NEW LOCATIONS, PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED.
- 4. CONNECT RECEPTACLES IN OFFICE 123 TO AVAILABLE SPACE IN EXISTING PANEL 'P1'. PROVIDE NEW CIRCUIT AND 1-POLE, 20A BREAKER.
- 5. CONNECT TO AVAILABLE PORT IN EXISTING PATCH PANEL LOCATED IN COMM ROOM 106.
- 6. LOCATE ABOVE FIN TUBE RADIATOR, SEE MECHANICAL.
- 7. SALVAGE AND EXTEND EXISTING LOCAL LIGHTING CIRCUIT FOR CONNECTION TO NEW LIGHT FIXTURES. NEW FIXTURES ARE LED AND LOAD IS REDUCED.
- 8. PROVIDE DEDICATED CIRCUIT AND 1-POLE, 20A BREAKER IN AVAILBE SPACE IN EXISTING PANEL 'P1'.

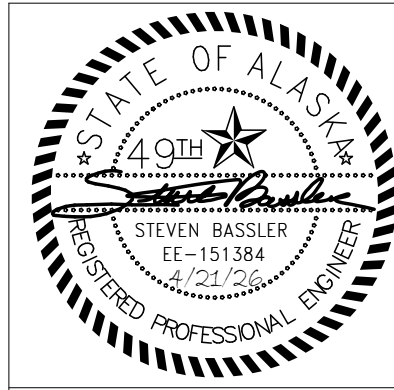


KEYPLAN



1 ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

2 ELECTRICAL REMODEL PLAN
1/4" = 1'-0"



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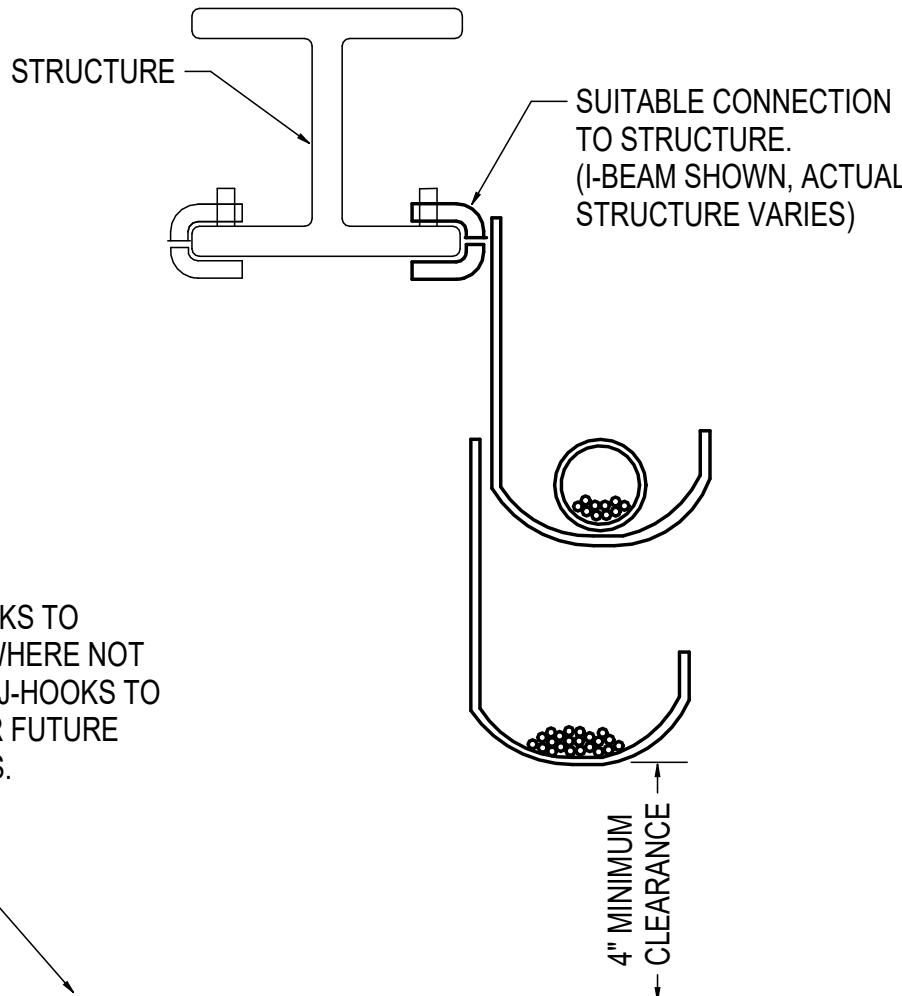
MUNICIPALITY OF ANCHORAGE
**FIRE STATION 6 OFFICE
RENOVATION**
ANCHORAGE, ALASKA

DATE: 04/21/26
DRAWN: AWK
CHECKED: SLB,CSZ
PROJECT: M6022
DRAWING TITLE:
ELECTRICAL PLANS
REVISIONS:
SHEET NO:
E101

CONSTRUCTION DRAWINGS

PROVIDE CAT 6 RATED J-HOOKS TO SUPPORT ALL NEW CABLES WHERE NOT INSTALLED IN CONDUIT. SIZE J-HOOKS TO ALLOW SPARE CAPACITY FOR FUTURE CABLES PER SPECIFICATIONS.

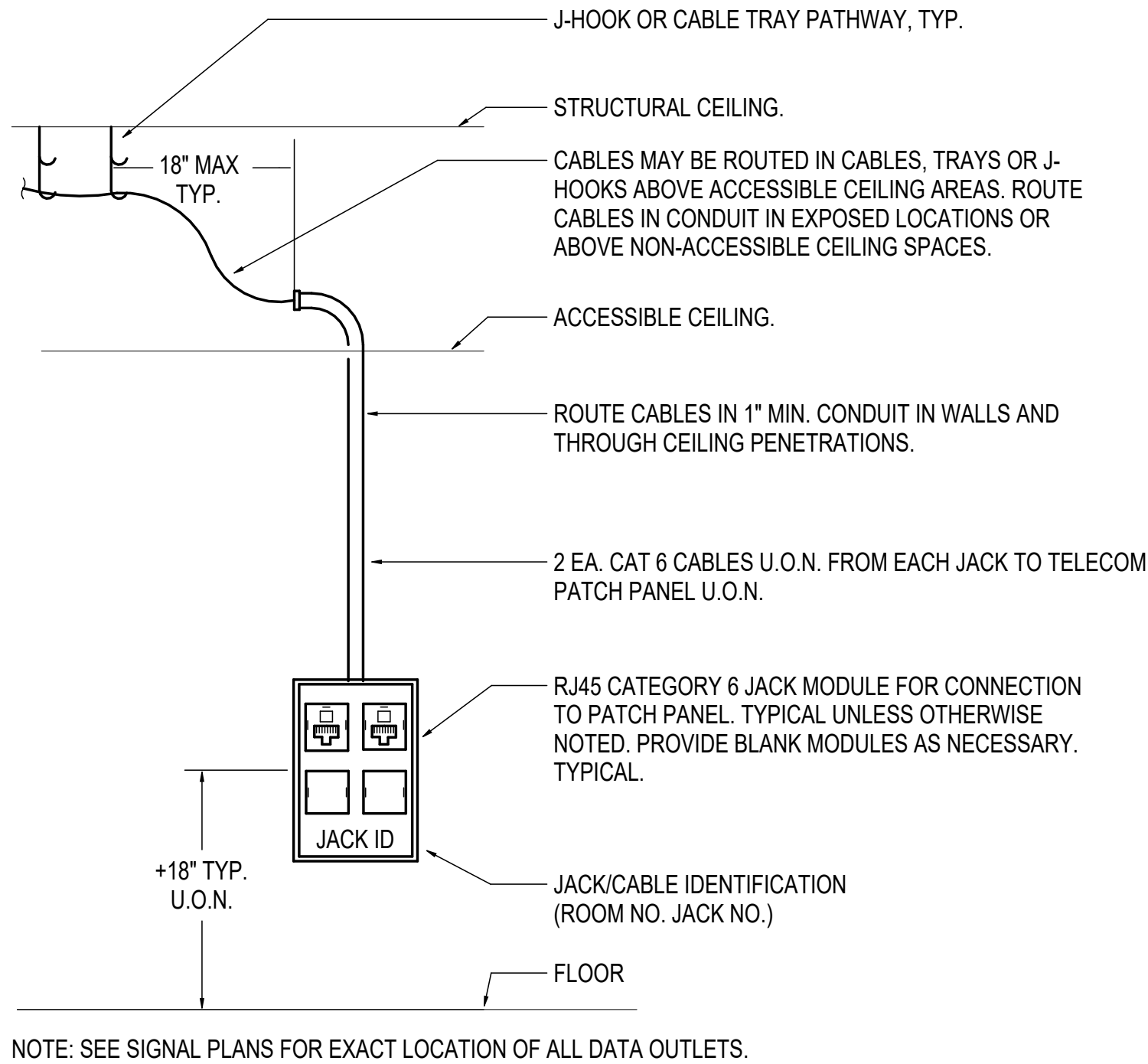
CEILING



DETAIL NOTES

1. PROVIDE CONTINUOUS J-HOOK SUPPORT FOR ALL CABLING NOT REQUIRED TO BE INSTALLED IN CONDUIT AND WHERE RACEWAYS ARE NOT PROVIDED.
2. SEE THE SPECIFICATIONS FOR J-HOOK RATINGS, SPACING CRITERIA AND SPARE CAPACITY REQUIREMENTS.
3. PROVIDE SPECIFIC MOUNTING HARDWARE FOR SUPPORT TO STRUCTURE TYPES AS NECESSARY. J-HOOKS SHALL BE INSTALLED VERTICALLY AS SHOWN.

1 J-HOOK SUPPORT DETAIL
NOT TO SCALE



NOTE: SEE SIGNAL PLANS FOR EXACT LOCATION OF ALL DATA OUTLETS.

2 TELECOM JACK DETAIL
NOT TO SCALE



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ANCHORAGE, ALASKA

DATE:	04/21/26
DRAWN:	AWK
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CONSTRUCTION DRAWINGS