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APPLICABLE CODE INFORMATION

THE PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

- 2015 INTERNATIONAL BUILDING CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-201 AND 661-301
 - 2010 AMERICANS WITH DISABILITIES ACT AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-302
 - STATE MECHANICAL CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE 641-61
 - STATE PLUMBING CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE 641-22
 - 2015 INTERNATIONAL FIRE CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-201
 - STATE ELECTRICAL CODE AS ADOPTED BY THE STATE ELECTRICAL LICENSING BOARD IOWA ADMINISTRATIVE RULE 661-504
 - 2015 INTERNATIONAL EXISTING BUILDING CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-301 AND 661-350
- IBC Chapter 2 - Use and Occupancy Classification**
 Primary Occupancy:
 The use and occupancy classification of the existing building are unchanged.
- IBC Chapter 5 - General Building Heights and Areas**
 Existing building use and size to remain unchanged.
- IBC Chapter 6 - Types of Construction**
 The type of construction for the existing building is unchanged.
- IBC Chapter 7 - Fire and Smoke Protection Features**
 New construction is limited and existing construction is not being modified.
 For construction purposes, shaft is considered to be 2 HR construction.
- IBC Chapter 8 - Interior Finishes**
 New construction is limited and matches existing interior finishes.
- IBC Chapter 10 - Means of Egress**
 All means of egress are being maintained in the existing building.
- IBC Chapter 10 - Elevators and Conveying Systems**
 Fire resistance rated construction is provided at the elevator machine room.
 Smoke protection at hoistway openings is not required per IBC 3006.2.
 Existing elevator shaft vent to be removed. Building is now in compliance with being equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2
 See Section 3009.1 - Exception 1.
- IBC Chapter 14 Existing Structures:**
 The updates to the existing building conform to the requirements of the code for new construction and are to be made with the same materials of which the original building is constructed. The existing building is in compliance with the mandatory fire safety requirements, the mandatory means of egress requirements, and the general safety requirements of this chapter.
- Iowa Administrative Code, Chapter 16, Division VII - Accessibility Requirements For Facilities Used by the General Public:**
 Accessibility within the building will be maintained.
- Iowa Administrative Code, Chapter 72 - Conveyances Installed on or After January 1, 1975**
 Elevator pit sump pump is not required per 72.13(3).
- NFPA-13 Chapter 8 - Section 8.15.5**
 Building is fully sprinklered. In accordance with NFPA 13-2013, sprinkler coverage will be provided in the existing elevator machine room and at the bottom of the elevator pit (hydraulic elevator). A sprinkler is not required at the top of the hoistway due to compliance with 8.15.5.6.

PROJECT LOCATION MAP



- CONTRACTOR EXCESS CAR PARKING, LARGER CONNEX CONTAINERS FOR CONTRACTOR STORAGE WILL NEED TO BE LOCATED AT THIS LOCATION.
- PRIMARY ENTRANCE
- PROJECT SITE
- PRIMARY CONTRACTOR STAGING AND SMALLER CONNEX STORAGE. SITE STORAGE WILL BE MINIMAL AND ONLY AUTHORIZED ITEMS WILL BE ALLOWED TO BE STORED AT THIS LOCATION.

STATE OF IOWA - Terrace Hill Elevator Replacement

STATE RFQ #: 943600

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 300 4TH STREET
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ELEVATOR CONSULTANT

LERCH BATES
 7625 GOLDEN TRIANGLE DRIVE, SUITE T
 EDEN PRAIRIE, MN 55344

STANDARD SYMBOLS

CABINET DESIGN
SERIES NUMBER
MODIFICATION
ADA COMPLIANT

100M.A
30-34-24
Now

DIMENSIONS' W-H-D
MODIFICATION
DESCRIPTION

SCRIBE IDENTIFIER

SCB
3

SCRIBE WIDTH

COUNTERTOP TYPE
(SEE A800 FOR
SPECIFICATIONS)
ADA COMPLIANT

C-SS.A
30-34-24
DIMENSIONS' W-H-D

*FOR BASE CABINETS AND COUNTERTOPS HEIGHT IS
MEASURED FROM FINISH FLOOR TO TOP OF COUNTERTOP

CASEWORK IDENTIFICATION

CURTAIN WALL/
STOREFRONT IDENTIFIER

CW
1

SF
CURTAIN WALL/
STOREFRONT TYPE

**CURTAIN WALL/
STOREFRONT IDENTIFICATION**

STANDARD SYMBOLS

OFFICE
ROOM NAME

2A15
ROOM NUMBER

ROOM IDENTIFICATION

DOOR NUMBER

DEMOLITION
EXISTING

DOOR IDENTIFICATION

CEILING TYPE
CEILING HEIGHT

(TYPE AA)
10' - 0" AFF

CEILING IDENTIFICATION

PARTITION TYPE

MODIFICATION
RATING
SIZE

WALL IDENTIFICATION

ROOF/FLOOR TYPE

R1

ROOF/FLOOR IDENTIFICATION

WINDOW TYPE

W12

WINDOW IDENTIFICATION

TAG REFERENCES
CORRESPONDING
VIEW

A1 / A12

MATCH LINE

ELEVATION NUMBER

A201

DARKENED AREA
DENOTES ELEVATION
DRAWN

SHEET NUMBER

ELEVATION REFERENCE

DETAIL NUMBER

101

SIM

SIM/OPP TAG
SHEET NUMBER

PLAN DETAIL REFERENCE

DETAIL NUMBER

101

SIM

SIM/OPP TAG
SHEET NUMBER

DETAIL REFERENCE

DARKENED AREA
DENOTES DIRECTION OF
SECTION CUT

A321

SECTION NUMBER

SHEET NUMBER

SECTION REFERENCE

NORTH DIRECTION
REFERENCE

DRAWING NUMBER
DRAWING TITLE

DRAWING SCALE

1/8" = 1'-0"

VIEW TITLE

KEYNOTE
REFERENCE
NUMBER

00 00 A1

ARROW POINTS TO
REFERENCED
OBJECT

KEYNOTE REFERENCE

GRID REFERENCE

A
B

STRUCTURAL GRID

4'-0"
4'-0"

FACE OF FINISH TO
FACE OF FINISH

DIMENSIONS

DENOTES
ELEVATION HEIGHT

15' - 0"

LEVEL 1

DENOTES OBJECT
REFERENCE

ELEVATION TAG

REVISION
REFERENCE
NUMBER

00
ITC

DRAWING REVISION

STANDARD ABBREVIATIONS

NUMBER
ACM ALUMINUM COMPOSITE METAL
ACP ACOUSTICAL CEILING PANEL
AFP ABOVE FINISH FLOOR
AWP ACOUSTIC WALL PANEL
BAS BUILDING AUTOMATION SYSTEM
BC BOTTOM OF CURB
BM BENCH MARK
BOC BACK OF CURB
BOS BOTTOM OF STEEL
BOW BOTTOM OF WALL
BR BUMPER GUARD/BUMPER RAIL
BRG BUMPER GUARD/BUMPER RAIL BEARING
BS BOTTOM OF STAIR
C CHANNEL
CC CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CG CORNER GUARD
CIP CAST-IN-PLACE
CJ CONTROL JOINT
CK CORK FLOORING
CL CENTER LINE
CLG CEILING
CLL CONSTRUCTION LIMITS LINE
CMU CONCRETE MASONRY UNIT
CO CLEANOUT
CONC CONCRETE
CONT CONTINUOUS
CPT CARPET
CRK CORK
DEMO DEMOLISH / DEMOLITION
DF DRINKING FOUNTAIN
DIA DIAMETER
DN DOWN
DS DOWNSPOUT
EC ELECTRICAL CONTRACTOR
EIFS EXTERIOR INSULATION FINISH SYSTEM
EJ EXPANSION JOINT
ELEC ELECTRICAL
ELEV ELEVATION
EPF EPOXY FLOORING
EPT EPOXY PAINT
EQ EQUAL
EWC ELECTRIC WATER COOLER
EX EXISTING
FAF FLUID APPLIED FLOORING
FD FLOOR DRAIN
FF FACTORY FINISH
FFE FINISHED FLOOR ELEVATION
FOC FACE OF CURB
FOF FACE OF FINISH
FOG FACE OF GLAZING
FRP FIBER REINFORCED PANEL GAUGE
GA GALVANIZED
GC GENERAL CONTRACTOR
GHM GALVANIZED HOLLOW METAL
GL GLASS
GT GROUT
GWB GYPSUM WALL BOARD
GYP GYPSUM
HORIZ HORIZONTAL
HM HOLLOW METAL
HT HEIGHT
HVAC HEATING/VENTING/AIR CONDITIONING
ID INSIDE DIAMETER
L ANGLE
LBS LBS
LVL LUXURY VINYL TILE
MAX MAXIMUM
MB MARKERBOARD
MC MECHANICAL CONTRACTOR
MDF MEDIUM DENSITY FIBERBOARD
MFR MANUFACTURERS
MH MANHOLE
MIN MINIMUM
MO MASONRY OPENING
NIC NOT IN CONTRACT
NTS NOT TO SCALE
OC ON CENTER
OA OVERALL
OD OUTSIDE DIAMETER
OFCI OWNER FURNISHED CONTRACTOR INSTALLED
OFOI OWNER FURNISHED OWNER INSTALLED
OH OVERHEAD
ORD OVERFLOW ROOF DRAIN
OTS OPEN TO STRUCTURE
PCT PORCELAIN CERAMIC TILE PLATE
PL PLATE
PLAM PLASTIC LAMINATE
PP POLYMER PANEL
PVC POLY VINYL CHLORIDE
PT PAINT
QT QUARTZ
RAD RADIUS
RAF RESILIENT ATHLETIC FLOORING
RB RESILIENT BASE
RD ROOF DRAIN
REV REVISION
RO ROUGH OPENING
ROW RIGHT-OF-WAY
RSF RESILIENT SHEET FLOORING
RST RESILIENT STAIR TREAD
RTF RESILIENT TILE FLOORING
RUB RUBBER
SC SEALED CONCRETE
SF SQUARE FEET
SIM SIMILAR
SS SOLID SURFACE
STN STONE
STL STAINLESS STEEL
SUSP SUSPENDED
T TILE
T&G TONGUE AND GROOVE
TG TEMPERED GLASS
TOC TOP OF CURB
TOM TOP OF MASONRY
TOS TOP OF SLAB / TOP OF STEEL
TOW TOP OF WALL
TP TOILET PARTITION
TPF TACKABLE PANEL FABRIC
TRZ TERRAZZO
TS TOP OF STAIR
TYP TYPICAL
UL UNDERWRITERS LABORATORIES, INC.
UNO UNLESS NOTED OTHERWISE
VERT VERTICAL
VIF VERIFY IN FIELD
WB WALL BASE
WC WALL COVERING
WTH WITH
WIO WITHOUT
WO WOOD
WGH WALLGUARD HANDRAIL
WM WALK-OFF MAT
WP WALL PROTECTION
WT WINDOW TREATMENT
WWF WELDED WIRE FABRIC

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Key Plan

Revision Description Date

OPN Project No.
24835000

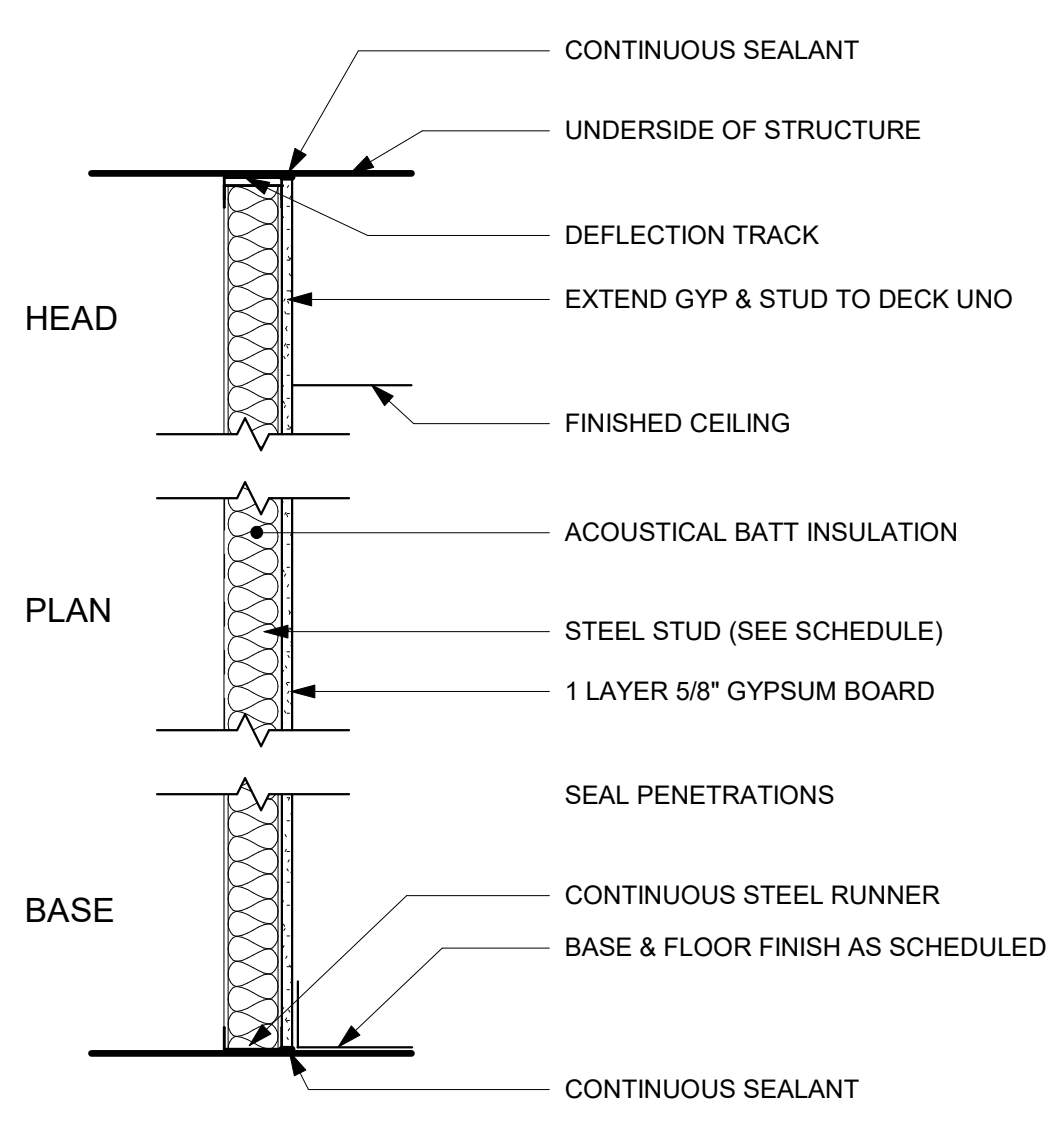
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Sheet Name
GENERAL DRAWING INFORMATION

Sheet Number

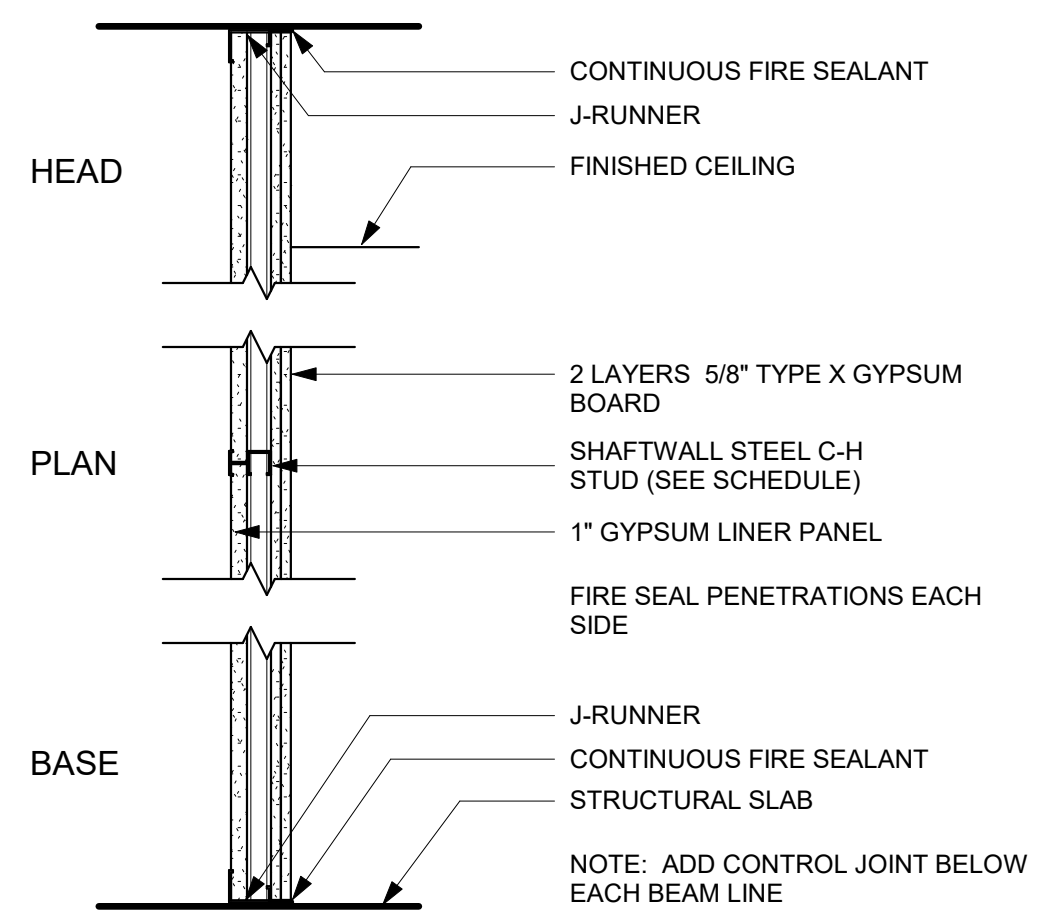
- GENERAL NOTES**
- REFER TO FLOOR PLANS FOR PARTITION TYPE LOCATIONS.
 - STEEL FRAME PARTITIONS ARE BASED ON DESIGN INFORMATION INCLUDED IN PRODUCT TECHNICAL INFORMATION OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) PUBLICATION DATED 2000 AND THE FOLLOWING PERFORMANCE CRITERIA:
 - LIMITING HEIGHT CRITERIA:
 - DEFLECTION OF L/360 AT ALL WALLS TO RECEIVE TILE
 - DEFLECTION OF L/240 AT ALL OTHER WALLS AT 5 LBS. PER SQ. FT.
 - THICKNESS - STEEL COMPONENTS:

GAUGE	DESIGN THICKNESS
25	0.0188
22	0.0283
20	0.0346
18	0.0451
 - MINIMUM GAUGE: IF LIMITING HEIGHT AS SCHEDULED IN PARTITION DETAILS EXCEEDS PROJECT CONDITIONS OR IF THE SELECTED STEEL STUD MANUFACTURER'S THICKNESS OF STEEL COMPONENTS VARIES FROM THE BASIS OF DESIGN AS SET FORTH ABOVE, PROVIDE MANUFACTURER'S STANDARD THICKNESS(GAUGE) THAT MEETS OR EXCEEDS LIMITING HEIGHT PERFORMANCE CRITERIA FOR STUD DEPTH AND SPACING INDICATED. WOOD BLOCKING CONCEALED BY GYPSUM BOARD DOES NOT NEED TO BE FIRE TREATED.



A2 STEEL FRAMED PARTITION
NON RATED / NON-LOAD BEARING

WIDTH	STUD SIZE	UL DESIGN NUMBER
A2 2 1/4"	1 5/8"	N/A
A2 4 1/4"	3 5/8"	N/A
A2 6 5/8"	6"	N/A



B1 SHAFTWALL PARTITION
2 HOUR RATED / NON-LOAD BEARING

WIDTH	STUD SIZE	UL DESIGN NUMBER
B1 3 1/8"	2 1/2"	U415
B1 4 5/8"	4"	U415
B1 6 5/8"	6"	U415

PARTITION TYPE AND SYMBOL LEGEND

PARTITION TYPE

SYSTEM
A STEEL FRAMED
B SHAFT WALL
C FURRED
D MASONRY
E SPECIAL FINISHES
T TEMPORARY PARTITION

SIZE

STEEL STUD
a 1 5/8"
b 2 1/2"
c 3 5/8"
d 6"
e 7 1/4"
f 2 1/2"
g 4"
h 6"
j 7/8" Hat Channel
k 1" Z
l 1 1/2" Z
m 2" Z
n 3" Z

CONCRETE MASONRY UNIT

p 4"
q 6"
r 8"
s 10"
t 12"

LIGHT GAUGE STRUCTURAL STEEL (SEE STRUCTURAL)

u 6"
v 12"

RATING

0 NON-RATED
S SMOKE
1 1 HOUR
2 2 HOUR
3 3 HOUR
4 4 HOUR

CONCRETE MASONRY UNIT

p 4"
q 6"
r 8"
s 10"
t 12"

LIGHT GAUGE STRUCTURAL STEEL (SEE STRUCTURAL)

u 6"
v 12"

RATING

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RATING

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S SMOKE
1 1 HOUR
2 2 HOUR
3 3 HOUR
4 4 HOUR

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GENERAL NOTES

- IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.
- DO NOT REMOVE ANY ITEMS WHICH JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
- EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL DEMOLITION ACTIVITIES.
- REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES.
- PROTECT ALL ADJACENT AREAS AND ITEMS TO REMAIN DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
- EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION.
- INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND/OR REGULATORY REQUIREMENTS.
- REMOVE LOOSE PAINT AND MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES.
- OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR WORK.
- OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- PATCH AND REPAIR ALL EXISTING FLOOR SLAB AND WALL SURFACES DAMAGED FROM DEMOLITION OR PRIOR USE.
- PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING.

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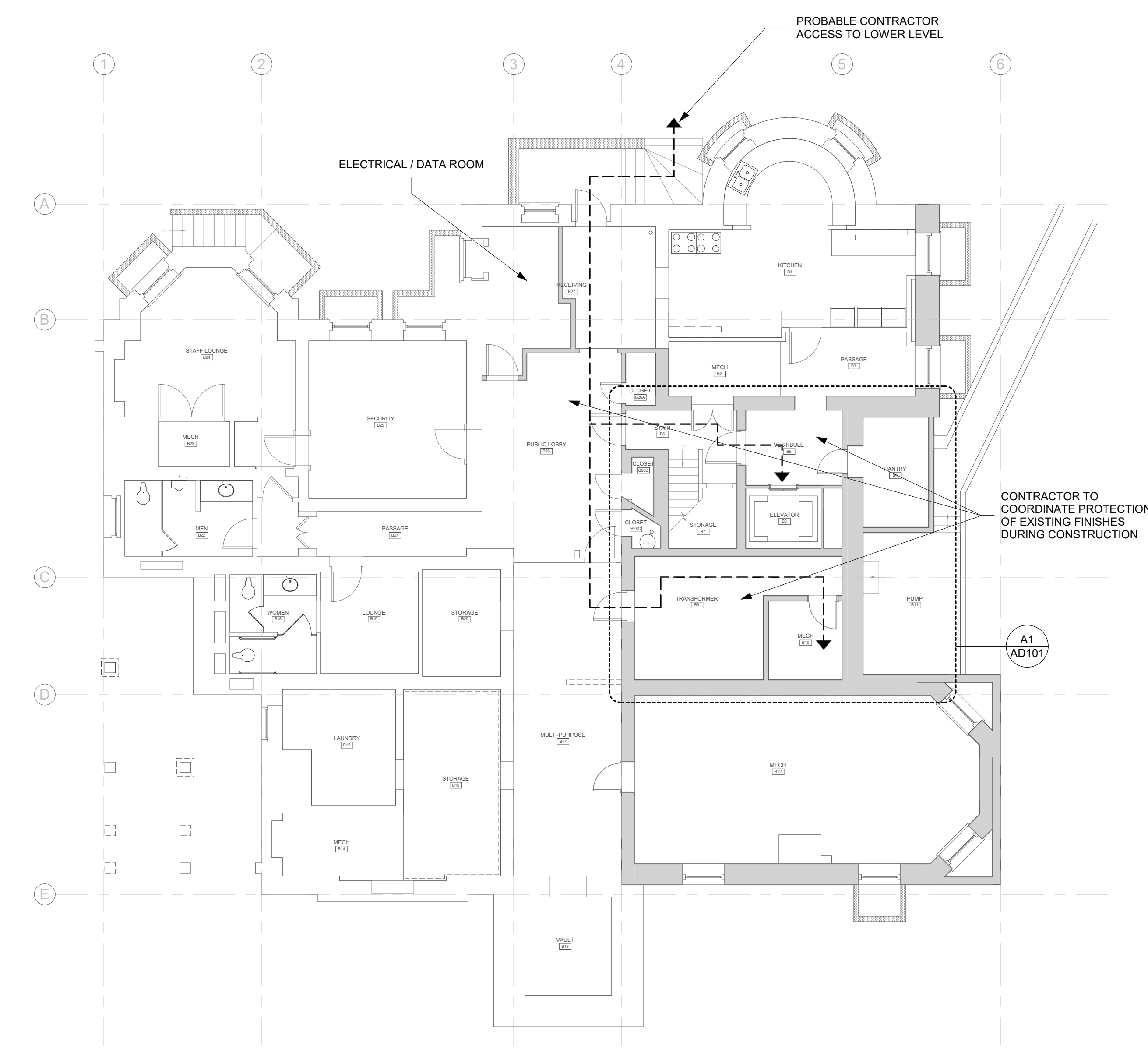
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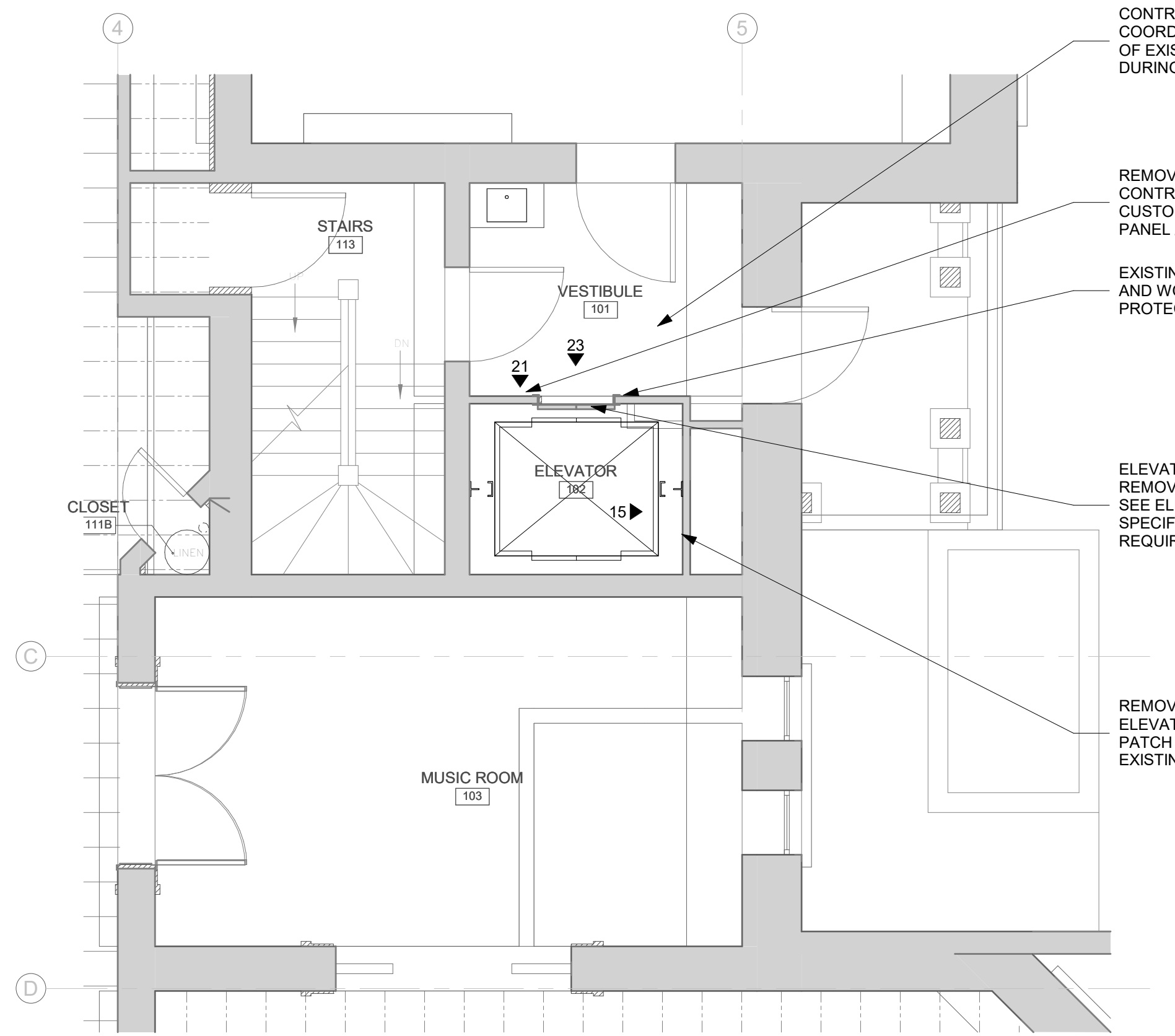
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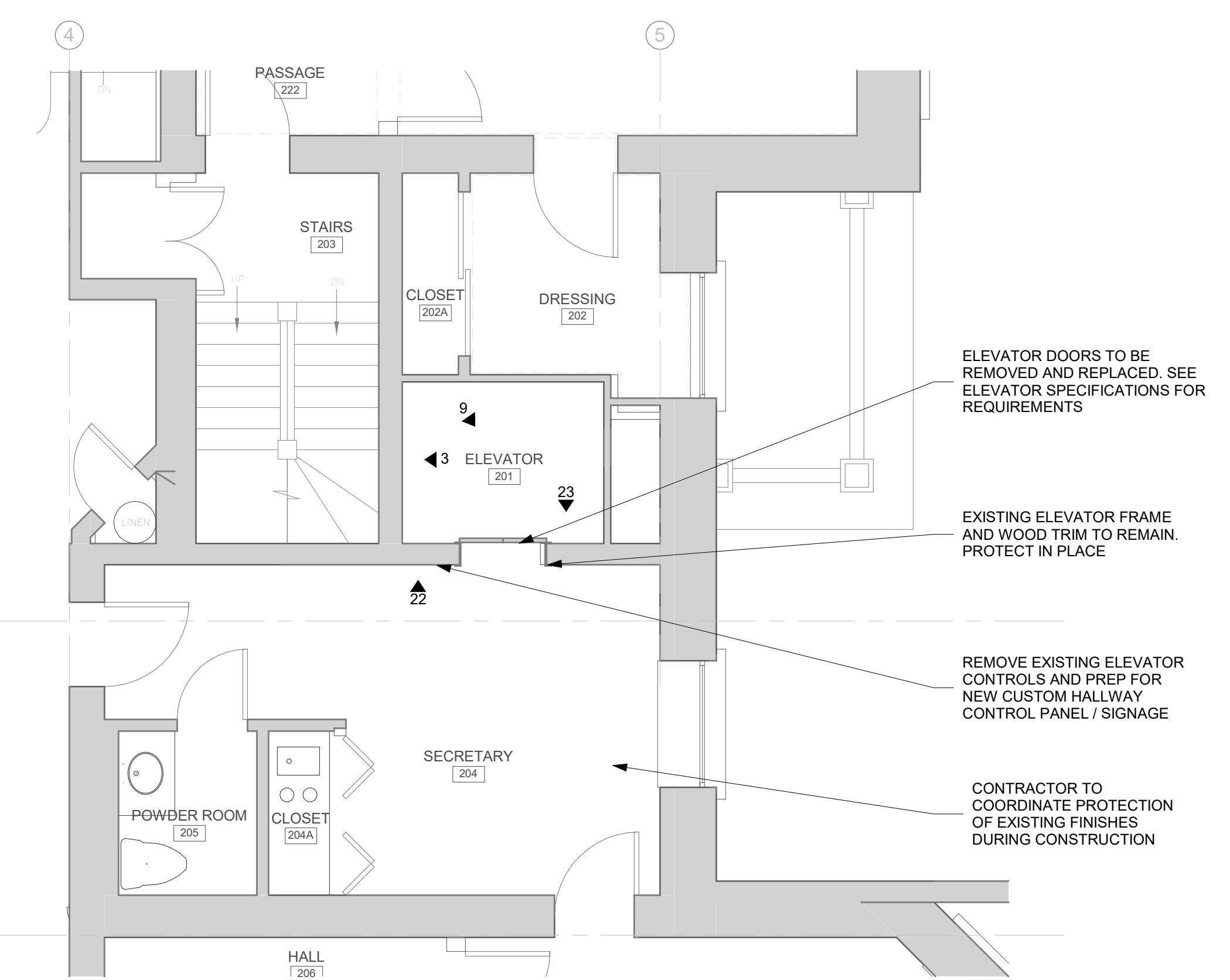
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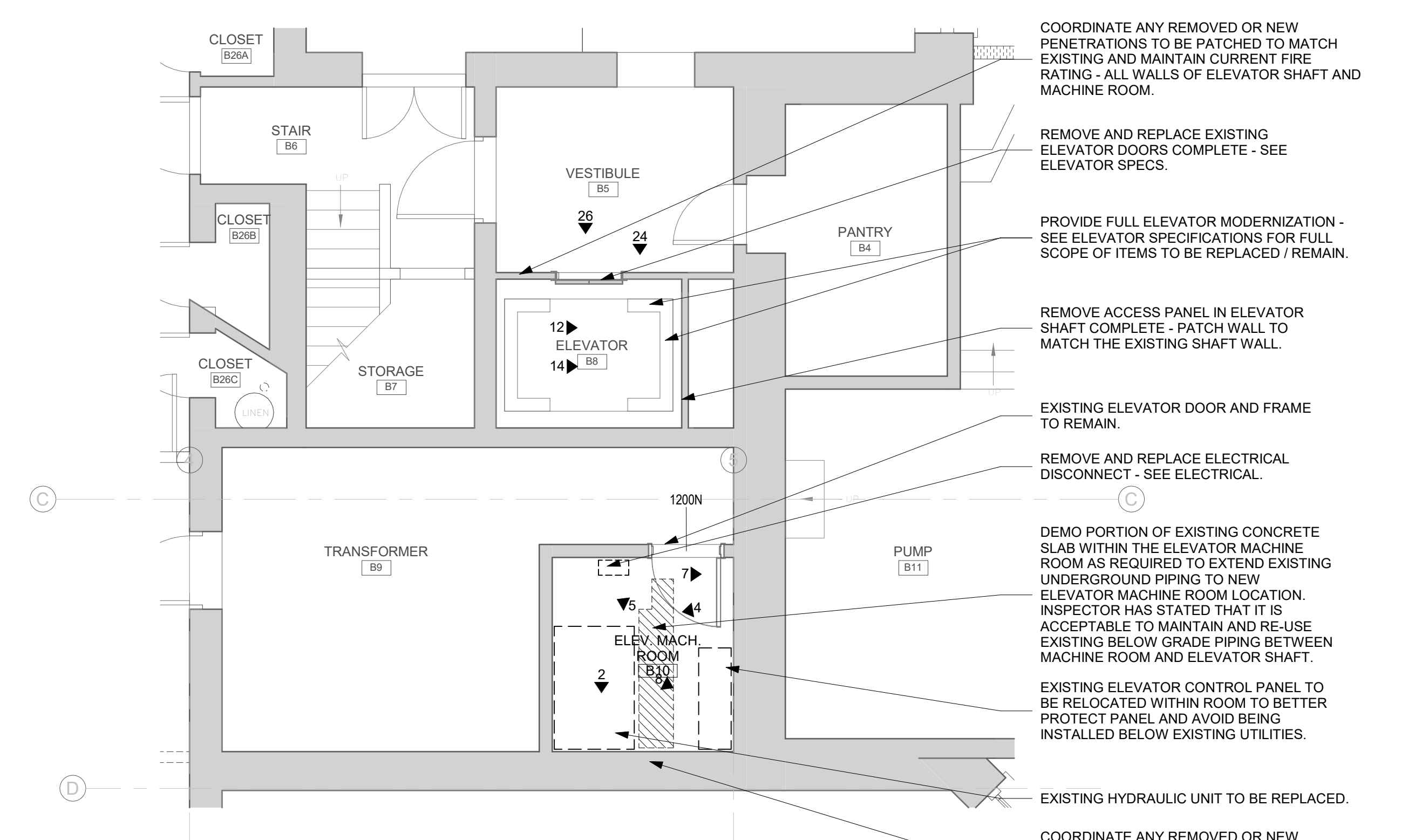
J1 DEMO BASEMENT FLOOR PLAN
1/8" = 1'-0"



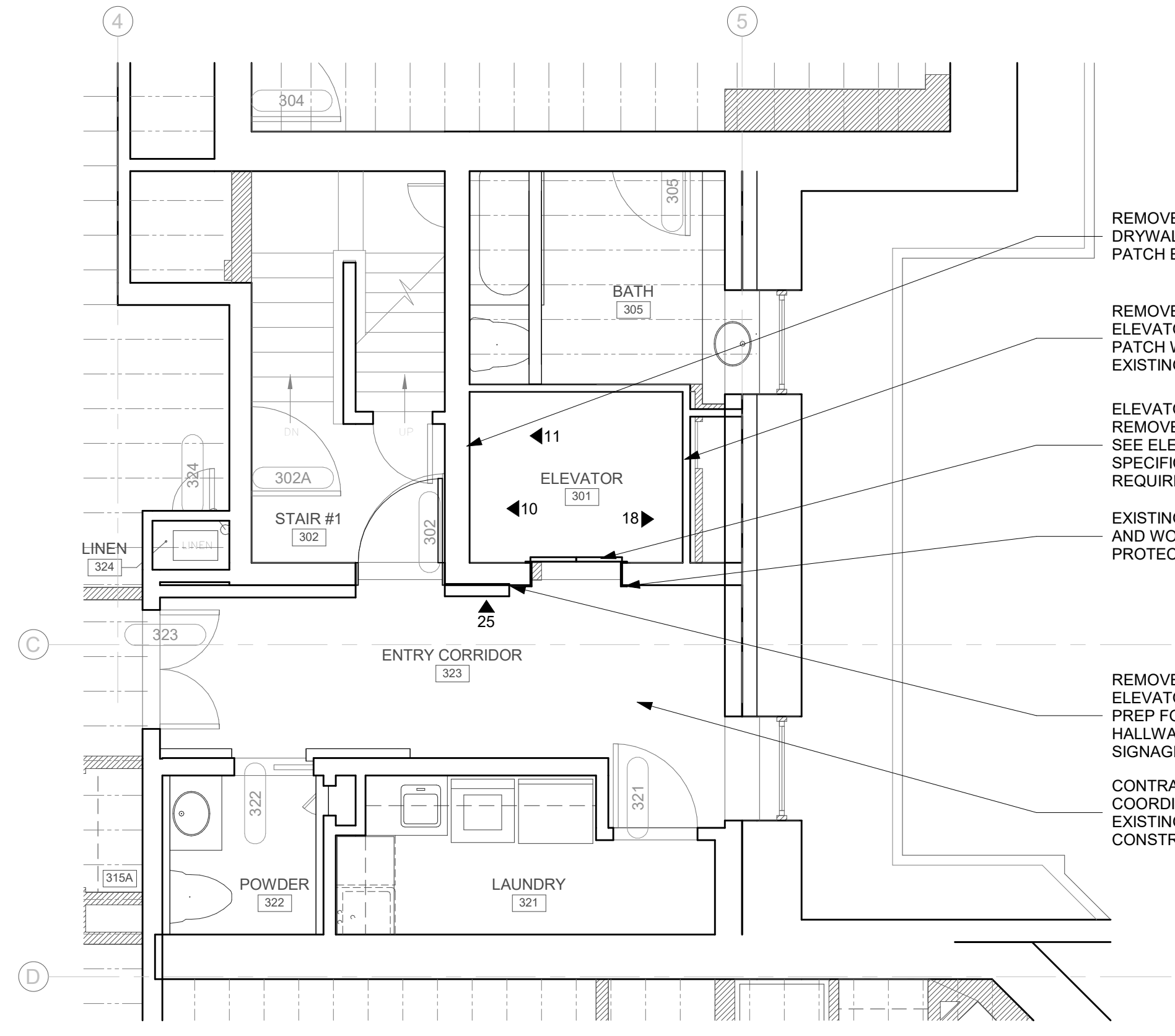
J11 DEMO ENLARGED FLOOR PLAN - LEVEL 1
1/4" = 1'-0"



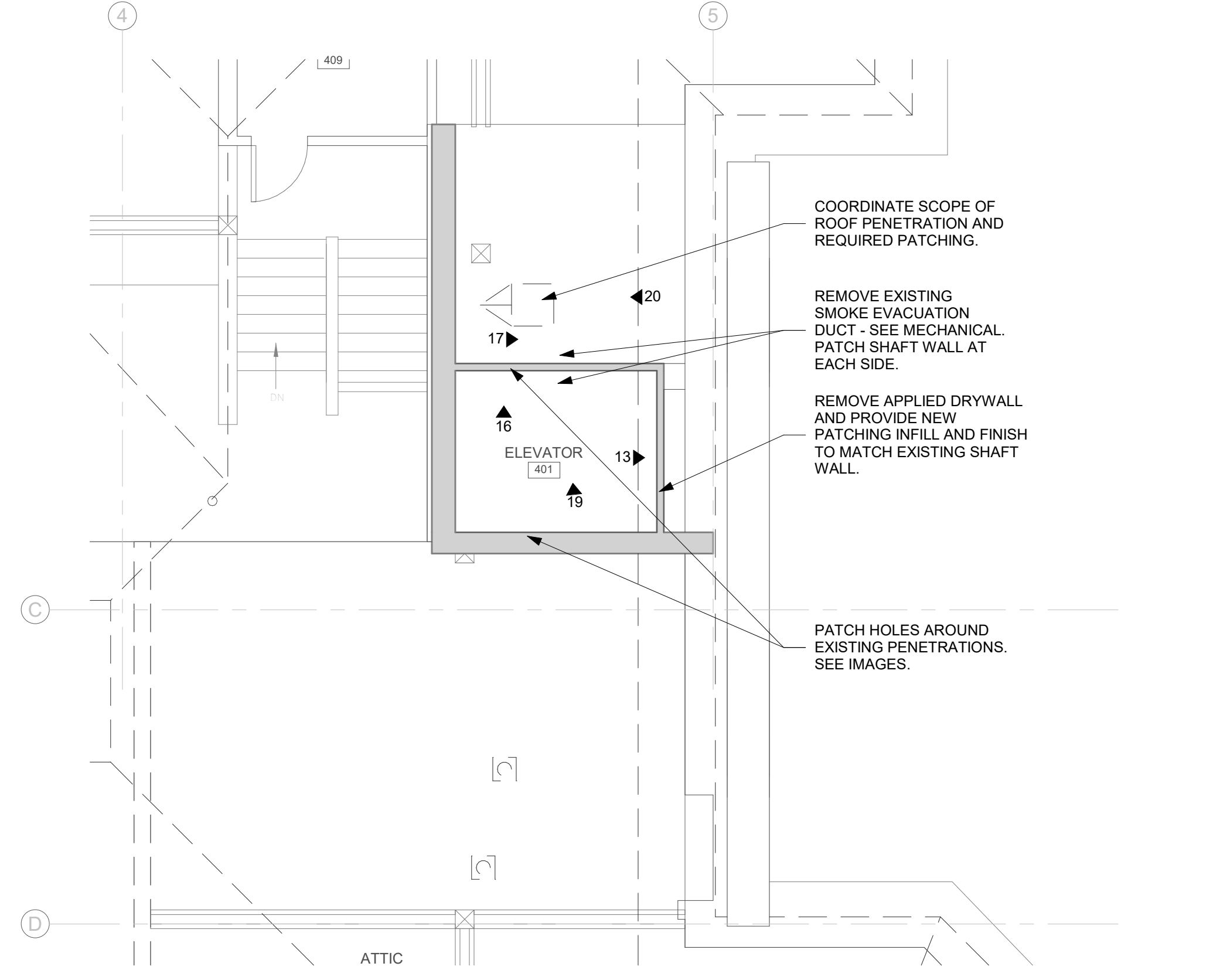
J18 DEMO ENLARGED FLOOR PLAN - LEVEL 2
1/4" = 1'-0"



A1 DEMO ENLARGED FLOOR PLAN - BASEMENT MACHINE ROOM
1/4" = 1'-0"



A11 DEMO ENLARGED FLOOR PLAN - LEVEL 3
1/4" = 1'-0"



A19 DEMO ENLARGED FLOOR PLAN - ATTIC
1/4" = 1'-0"

Key Plan

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DEMO FLOOR PLANS

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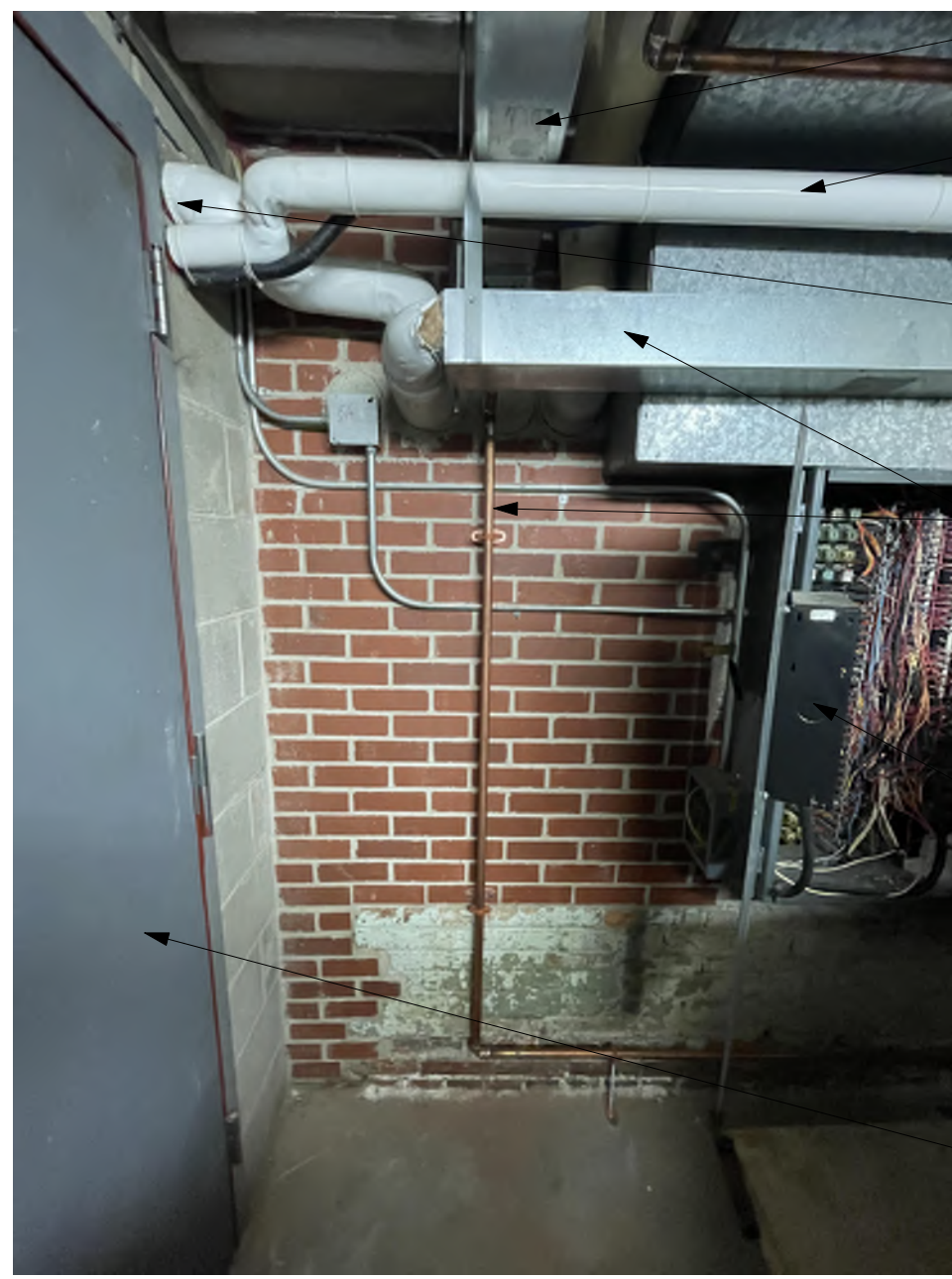
- EXISTING CEILING AND LIGHTING TO BE REMOVED AND REPLACED.
- NEW INSTALLATION WILL REMOVE AND REPLACE ALL ELEVATOR SIGNALS.
- ELEVATOR DOORS TO BE REMOVED AND REPLACED.
- ELEVATOR CONTROL PANEL TO BE REPLACED AND PROVIDE WITH ALL NEW CONTROLS AND 2-WAY VISUAL COMMUNICATION.
- ELEVATOR CURRENTLY UTILIZES MULTIPLE CREDENTIAL VERIFICATION. THESE WILL BE REPLACED AND UPGRADED.
- EXISTING ELEVATOR CAB SHELL TO REMAIN. ALL FINISHES TO BE REPLACED.

EXISTING IMAGE 9



- EXISTING UTILITIES IN SPACE ARE PROTECTED, AND NO JUNCTION POINTS OR ACCESS POINTS ARE ACCESSIBLE IN THE ROOM.
- EXISTING ELEVATOR MACHINE ROOM IS PROVIDED WITH SPRINKLER COVERAGE.
- DRIP PANS ARE CURRENTLY PROVIDED IN THE SPACE TO CONTAIN AND PROTECT ELEVATOR EQUIPMENT IN THE SPACE. DRIP PANS PROVIDED WITH DRAINAGE PIPE THAT IS PIPED TO EXTERIOR OF ROOM FOR DISCHARGE.
- EXISTING ELEVATOR CONTROL PANEL TO BE RELOCATED WITHIN ROOM TO BETTER PROTECT PANEL AND AVOID BEING INSTALLED BELOW EXISTING UTILITIES.
- EXISTING HYDRAULIC UNIT TO BE REPLACED.

EXISTING IMAGE 8



- PROVIDE ADDITIONAL DRIP PANS AND PROTECTION BENEATH THIS LINE WITHIN THE ELEVATOR MACHINE ROOM.
- EXISTING GAS LINE CANNOT REMAIN WITHIN ROOM AND TO BE REMOVED AND RE-ROUTED AROUND THE SPACE- SEE MECHANICAL / PLUMBING.
- EXISTING SPRINKLER LINE PASSES THROUGH THE SPACE. SPRINKLER HEAD TO BE RELOCATED TO THIS CORNER AND ADDITIONAL SCREENING PROVIDED.
- DRIP PANS ARE CURRENTLY PROVIDED IN THE SPACE TO CONTAIN AND PROTECT ELEVATOR EQUIPMENT IN THE SPACE. DRIP PANS PROVIDED WITH DRAINAGE PIPE THAT IS PIPED TO EXTERIOR OF ROOM FOR DISCHARGE.
- EXISTING ELEVATOR CONTROL PANEL TO BE REMOVED AND NEW PANEL RELOCATED WITHIN THE ROOM AND AVOID BEING INSTALLED BELOW EXISTING UTILITIES.
- EXISTING ELEVATOR MACHINE ROOM DOOR IS TO REMAIN. DOOR IS PROPERLY RATED AND MEETS ALL CURRENT CODE REQUIREMENTS

EXISTING IMAGE 7



- EXISTING UTILITIES IN SPACE ARE PROTECTED, AND NO JUNCTION POINTS OR ACCESS POINTS ARE ACCESSIBLE IN THE ROOM.
- EXISTING ELEVATOR MACHINE ROOM IS PROVIDED WITH SPRINKLER COVERAGE.
- ELEVATOR CONTROL PANEL TO BE RELOCATED TO THIS LOCATION TO PROVIDE BETTER INSTALLATION LOCATION AND AVOID BEING BELOW WET UTILITIES.
- EXISTING ELECTRICAL DISCONNECT TO BE REPLACED.
- EXISTING HYDRAULIC UNIT TO BE REPLACED.
- EXISTING ELEVATOR SHAFT UTILIZES FEEDS TO ELEVATOR SHAFT VIA UNDERGROUND PIPING. THERE IS NOT A POSSIBLE ROUTE FOR FEEDING ABOVE GRADE. EXISTING SLAB WILL BE CUT OPEN WITHIN ELEVATOR MACHINE ROOM TO REROUTE PIPING AS REQUIRED TO NEW UNIT LOCATION.

EXISTING IMAGE 4



- EXISTING HYDRAULIC RECLAMATION LINE TO BE REPLACED.
- EXISTING UTILITIES IN SPACE ARE PROTECTED, AND NO JUNCTION POINTS OR ACCESS POINTS ARE ACCESSIBLE IN THE ROOM.
- ELEVATOR CONTROL PANEL TO BE RELOCATED TO THIS LOCATION TO PROVIDE BETTER INSTALLATION LOCATION AND AVOID BEING BELOW WET UTILITIES.
- EXISTING ELECTRICAL DISCONNECT TO BE REPLACED.
- EXISTING HYDRAULIC UNIT TO BE REPLACED.
- EXISTING ELEVATOR MACHINE ROOM DOOR IS TO REMAIN. DOOR IS PROPERLY RATED AND MEETS ALL CURRENT CODE REQUIREMENTS.

EXISTING IMAGE 5



- ELEVATOR CURRENTLY UTILIZES MULTIPLE CREDENTIAL VERIFICATION. THESE WILL BE REPLACED AND UPGRADED.
- ELEVATOR CONTROL PANEL TO BE REPLACED AND PROVIDE WITH ALL NEW CONTROLS AND 2-WAY VISUAL COMMUNICATION.

EXISTING IMAGE 6



- EXISTING ELEVATOR SHAFT UTILIZES FEEDS TO ELEVATOR SHAFT VIA UNDERGROUND PIPING. THERE IS NOT A POSSIBLE ROUTE FOR FEEDING ABOVE GRADE. EXISTING SLAB WILL BE CUT OPEN WITHIN ELEVATOR MACHINE ROOM TO REROUTE PIPING AS REQUIRED TO NEW UNIT LOCATION.

EXISTING IMAGE 1



- EXISTING LIGHTING IN SPACE IS PLUGGED TO OUTLET. LIGHTING WILL BE UPDATED AND HARDWIRED.
- EXISTING UTILITIES IN SPACE ARE PROTECTED, AND NO JUNCTION POINTS OR ACCESS POINTS ARE ACCESSIBLE IN THE ROOM.
- EXISTING ELEVATOR MACHINE ROOM IS PROVIDED WITH SPRINKLER COVERAGE.
- EXISTING ELEVATOR CONTROL PANEL TO BE RELOCATED WITHIN ROOM TO BETTER PROTECT PANEL AND AVOID BEING INSTALLED BELOW EXISTING UTILITIES.
- EXISTING HYDRAULIC UNIT TO BE REPLACED.

EXISTING IMAGE 2



- EXISTING ELEVATOR CAB SHELL TO REMAIN. ALL FINISHES TO BE REPLACED.
- NEW MIRROR TO BE PROVIDED IN UPDATED ELEVATOR FINISHES
- NEW ELEVATOR FINISHES TO REPLACE AND PROVIDE IN CAB MAILBOXES SIMILAR TO EXISTING SETUP.

EXISTING IMAGE 3

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THERE ARE SEVERAL LOCATIONS IN THE ELEVATOR SHAFT WITH PATCHING THAT IS NOT PROPERLY FINISHED. ELEVATOR MODERNIZATION WILL REPAIR AND PROPERLY PATCH/FINISH SHAFT WALLS.
SHAFT SMOKE / FIRE ALARM COVERAGE TO BE UPDATED - SEE ELECTRICAL. SWAP TO HEAT HEADS DURING CONSTRUCTION.
SHAFT SPRINKLER COVERAGE TO BE CONFIRMED - SEE PLUMBING.
SHAFT LIGHTING TO BE REPLACED AND PROVIDED WITH CODE COMPLIANT LIGHTING - SEE ELECTRICAL.
EXISTING ELEVATOR RAILS TO REMAIN. SEE SPECIFICATIONS FOR FULL CLARIFICATION ON ELEVATOR EQUIPMENT TO REMAIN OR BE REPLACED.
EXISTING ELEVATOR SHAFT IS PROVIDED WITH A EXHAUST FAN. SMOKE EVACUATION IS NOT REQUIRED PER CODE ANY LONGER AND WILL REMOVE AND PATCH OPENING.

EXISTING IMAGE 19



EXISTING EXHAUST SHAFT IS PROVIDED WITH A EXHAUST FAN. IT IS NOT BELIEVED THAT THIS DUCT IS DAMPERED. SMOKE EVACUATION IS NOT REQUIRED PER CODE ANY LONGER AND WILL REMOVE AND PATCH OPENING. SCOPE OF WORK RELATED TO ROOF PENETRATION TO BE CONFIRMED.

EXISTING IMAGE 20



THERE IS AN EXISTING MECHANICAL CHASE LOCATED BEHIND THE ELEVATOR SHAFT WALL WITH MULTIPLE ACCESS HATCHES THROUGHOUT THE SHAFT. IT HAS BEEN NOTED THAT THERE ARE NOT ACCESSIBLE VALVES OR JOINTS WITHIN THE ACCESS HATCHES. ACCESS POINTS WITHIN SHAFT WILL BE REMOVED AND PROPERLY PATCHED TO ELIMINATE ACCESS POINTS IN SHAFT.

EXISTING IMAGE 18



SHAFT LIGHTING TO BE REMOVED AND REPLACED - SEE ELECTRICAL.
SHAFT SPRINKLER COVERAGE TO BE CONFIRMED - SEE PLUMBING.
EXISTING ELEVATOR RAILS TO REMAIN. SEE SPECIFICATIONS FOR FULL CLARIFICATION ON ELEVATOR EQUIPMENT TO REMAIN OR BE REPLACED.
EXISTING ELEVATOR SHAFT IS PROVIDED WITH A EXHAUST FAN. IT IS NOT BELIEVED THAT THIS DUCT IS DAMPERED. SMOKE EVACUATION IS NOT REQUIRED PER CODE ANY LONGER AND WILL REMOVE AND PATCH OPENING.

EXISTING IMAGE 16



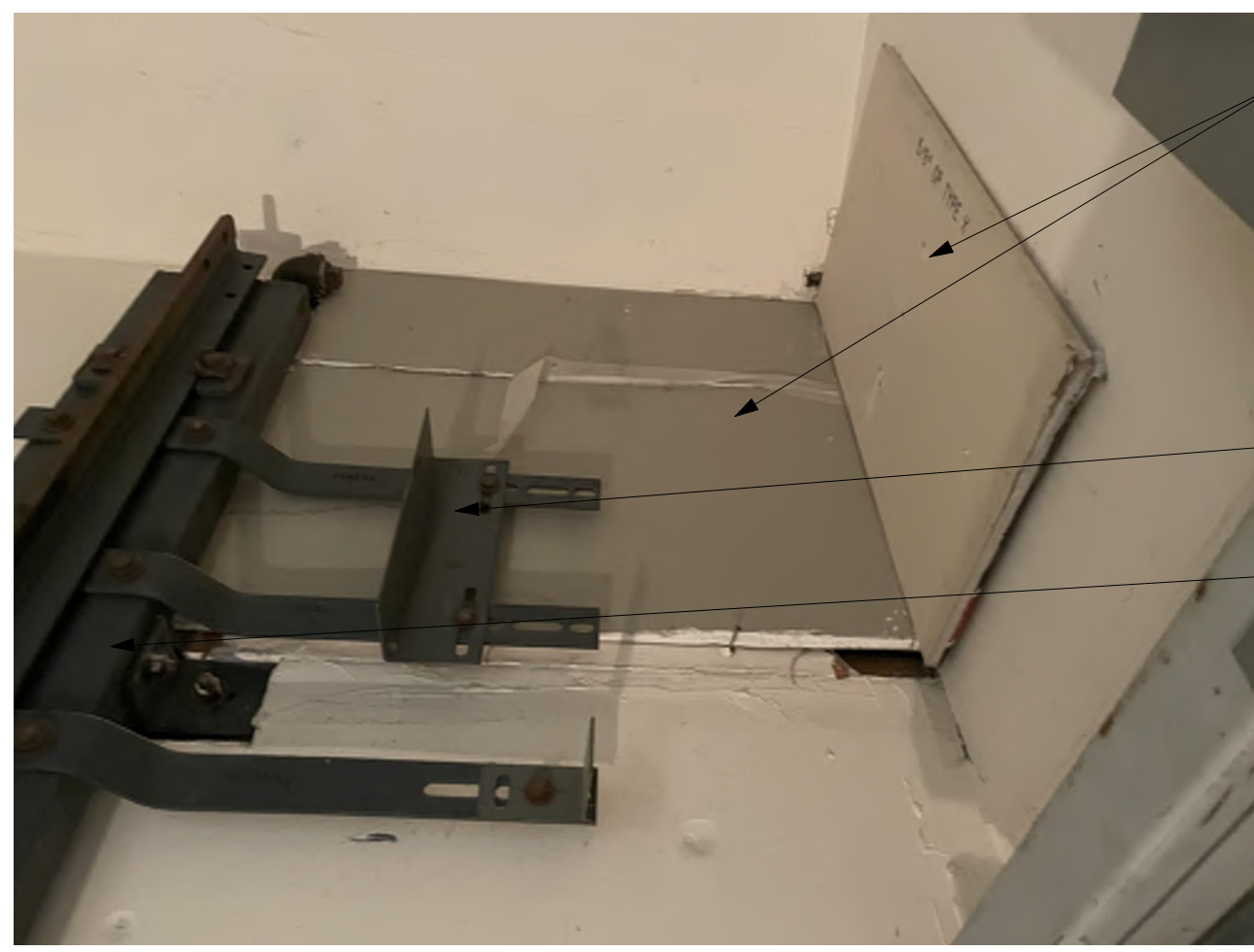
EXISTING ELEVATOR SHAFT IS PROVIDED WITH A EXHAUST FAN. IT IS NOT BELIEVED THAT THIS DUCT IS DAMPERED. SMOKE EVACUATION IS NOT REQUIRED PER CODE ANY LONGER AND WILL REMOVE AND PATCH OPENING.

EXISTING IMAGE 17



THERE IS AN EXISTING MECHANICAL CHASE LOCATED BEHIND THE ELEVATOR SHAFT WALL WITH MULTIPLE ACCESS HATCHES THROUGHOUT THE SHAFT. IT HAS BEEN NOTED THAT THERE ARE NOT ACCESSIBLE VALVES OR JOINTS WITHIN THE ACCESS HATCHES. ACCESS POINTS WITHIN SHAFT WILL BE REMOVED AND PROPERLY PATCHED TO ELIMINATE ACCESS POINTS IN SHAFT.

EXISTING IMAGE 15



THERE ARE SEVERAL LOCATIONS IN THE ELEVATOR SHAFT WITH PATCHING THAT IS NOT PROPERLY FINISHED. ELEVATOR MODERNIZATION WILL REPAIR AND PROPERLY PATCH/FINISH SHAFT WALLS.
COORDINATE DRYWALL WORK WITH ELEVATOR PROVIDER REMOVE BRACKETS AS REQUIRED FOR DRYWALL INSTALLATION.
EXISTING ELEVATOR RAILS TO REMAIN. SEE SPECIFICATIONS FOR FULL CLARIFICATION ON ELEVATOR EQUIPMENT TO REMAIN OR BE REPLACED.

EXISTING IMAGE 13



EXISTING ELEVATOR RAILS TO REMAIN. SEE SPECIFICATIONS FOR FULL CLARIFICATION ON ELEVATOR EQUIPMENT TO REMAIN OR BE REPLACED.
SEALED SUMP TO REMAIN - NO WORK.
EXISTING ELEVATOR SHAFT UTILIZES FEEDS TO ELEVATOR SHAFT VIA UNDERGROUND PIPING. PIPING FROM THE SHAFT TILL THE ENTRY INTO THE ELEVATOR MACHINE ROOM IS TO BE REUSED. WITHIN THE ELEVATOR MACHINE ROOM, THE FLOOR WILL BE REMOVED AND REPLACED TO ALLOW EXTENSION OF THE LINE BENEATH THE FLOOR TO THE NEW ELEVATOR UNIT LOCATION.
OLD PIPING TO BE REMOVED BACK FLUSH TO WALL AND SEALED.
EXISTING HYDRAULIC JACK TO BE REPLACED. SEE ELEVATOR SPECIFICATIONS.

EXISTING IMAGE 14



THERE ARE SEVERAL LOCATIONS IN THE ELEVATOR SHAFT WITH PATCHING THAT IS NOT PROPERLY FINISHED. ELEVATOR MODERNIZATION WILL REPAIR AND PROPERLY PATCH / FINISH SHAFT WALLS. THIS LOCATION HAS BUILT UP CONDITION THAT DOES NOT APPEAR NECESSARY. WILL BE REMOVED AND WALL PATCHED BEHIND.
CURRENTLY, ALL ITEMS LOCATED WITHIN THE ELEVATOR SHAFT SERVE THE ELEVATOR.

EXISTING IMAGE 10



THERE ARE SEVERAL LOCATIONS IN THE ELEVATOR SHAFT WITH PATCHING THAT IS NOT PROPERLY FINISHED. ELEVATOR MODERNIZATION WILL REPAIR AND PROPERLY PATCH / FINISH SHAFT WALLS. THIS LOCATION HAS BUILT UP CONDITION THAT DOES NOT APPEAR NECESSARY. WILL BE REMOVED AND WALL PATCHED BEHIND.
EXISTING ELEVATOR RAILS TO REMAIN. SEE SPECIFICATIONS FOR FULL CLARIFICATION ON ELEVATOR EQUIPMENT TO REMAIN OR BE REPLACED.
CURRENTLY, ALL ITEMS LOCATED WITHIN THE ELEVATOR SHAFT SERVE THE ELEVATOR.

EXISTING IMAGE 11



EXISTING LIGHTING CONTROLS ARE NOT CODE COMPLIANT. NEW CONTROLS TO BE PROVIDED AT ACCESSIBLE LOCATION.
EXISTING PIT LADDER TO BE REPLACED.
EXISTING HYDRAULIC JACK TO BE REPLACED. SEE ELEVATOR SPECIFICATIONS.
EXISTING ELEVATOR RAILS TO REMAIN. SEE SPECIFICATIONS FOR FULL CLARIFICATIONS FOR FULL CLARIFICATION ON ELEVATOR EQUIPMENT TO REMAIN OR BE REPLACED.

EXISTING IMAGE 12

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EXISTING ELEVATOR FRAME AND WOOD TRIM TO REMAIN. PROTECT IN PLACE.

ELEVATOR DOORS TO BE REMOVED AND REPLACED. SEE ELEVATOR SPECIFICATIONS FOR REQUIREMENTS.

ELEVATOR CONTROLS AND SIGNAGE TO BE REMOVED AND REPLACED. NEW CONTROLS WILL BE RELOCATED TO THE OTHER SIDE OF THE DOOR. PATCH EXISTING LOCATION COMPLETE TO MATCH EXISTING ADJACENT WALL CONDITIONS. SEE DETAILS FOR CUSTOM SIGNAGE PLATES.

EXISTING IMAGE 25



ELEVATOR BOX TO BE REMOVED COMPLETE. PATCH WALL AND PAINT ENTIRE ASSOCIATED WALL.

ELEVATOR CONTROLS AND SIGNAGE TO BE REMOVED AND REPLACED. SEE DETAILS FOR CUSTOM SIGNAGE PLATES.

EXISTING IMAGE 26



EXISTING ELEVATOR FRAME AND WOOD TRIM TO REMAIN. PROTECT IN PLACE.

EXISTING BOX TO BE REMOVED AND SALVAGED TO OWNER. CARE SHOULD BE TAKE TO PROTECT AND NOT DAMAGE THE EXISTING WALLPAPER.

EXISTING FIRE ALARM TO REMAIN. WIRING IS EXPOSED IN SHAFT AND ROUTING NEEDS REDONE TO BE CONCEALED. SEE ELECTRICAL.

ELEVATOR CONTROLS AND SIGNAGE TO BE REMOVED AND REPLACED. SEE DETAILS FOR CUSTOM SIGNAGE PLATES.

ELEVATOR DOORS TO BE REMOVED AND REPLACED. SEE ELEVATOR SPECIFICATIONS FOR REQUIREMENTS.

EXISTING IMAGE 23



ELEVATOR BOX TO BE REMOVED COMPLETE. PATCH WALL AND PAINT ENTIRE ASSOCIATED WALL.

EXISTING IMAGE 24



EXISTING BOX TO BE REMOVED AND SALVAGED TO OWNER. CARE SHOULD BE TAKE TO PROTECT AND NOT DAMAGE THE EXISTING WALLPAPER.

AFTER REMOVAL OF ITEMS FROM WALL, CONFIRM AREA DISTURBED IS COORDINATED WITH SIZE OF NEW ELEVATOR CONTROL PLATE TO COVER DISRUPTED AREA.

ELEVATOR CONTROLS AND SIGNAGE TO BE REMOVED AND REPLACED. CARE SHOULD BE TAKE TO PROTECT AND NOT DAMAGE THE EXISTING WALLPAPER. SEE DETAILS FOR CUSTOM SIGNAGE PLATES.

EXISTING IMAGE 21



ELEVATOR CONTROLS AND SIGNAGE TO BE REMOVED AND REPLACED. PATCH WALL AND PAINT ENTIRE ASSOCIATED WALL. SEE DETAILS FOR CUSTOM SIGNAGE PLATES.

EXISTING IMAGE 22

- GENERAL NOTES**
1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
 2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
 3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
 4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
 5. PATCH AND REPAIR EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION.

Owner
STATE OF IOWA
109 SE 13TH STREET
DES MOINES, IA 50319

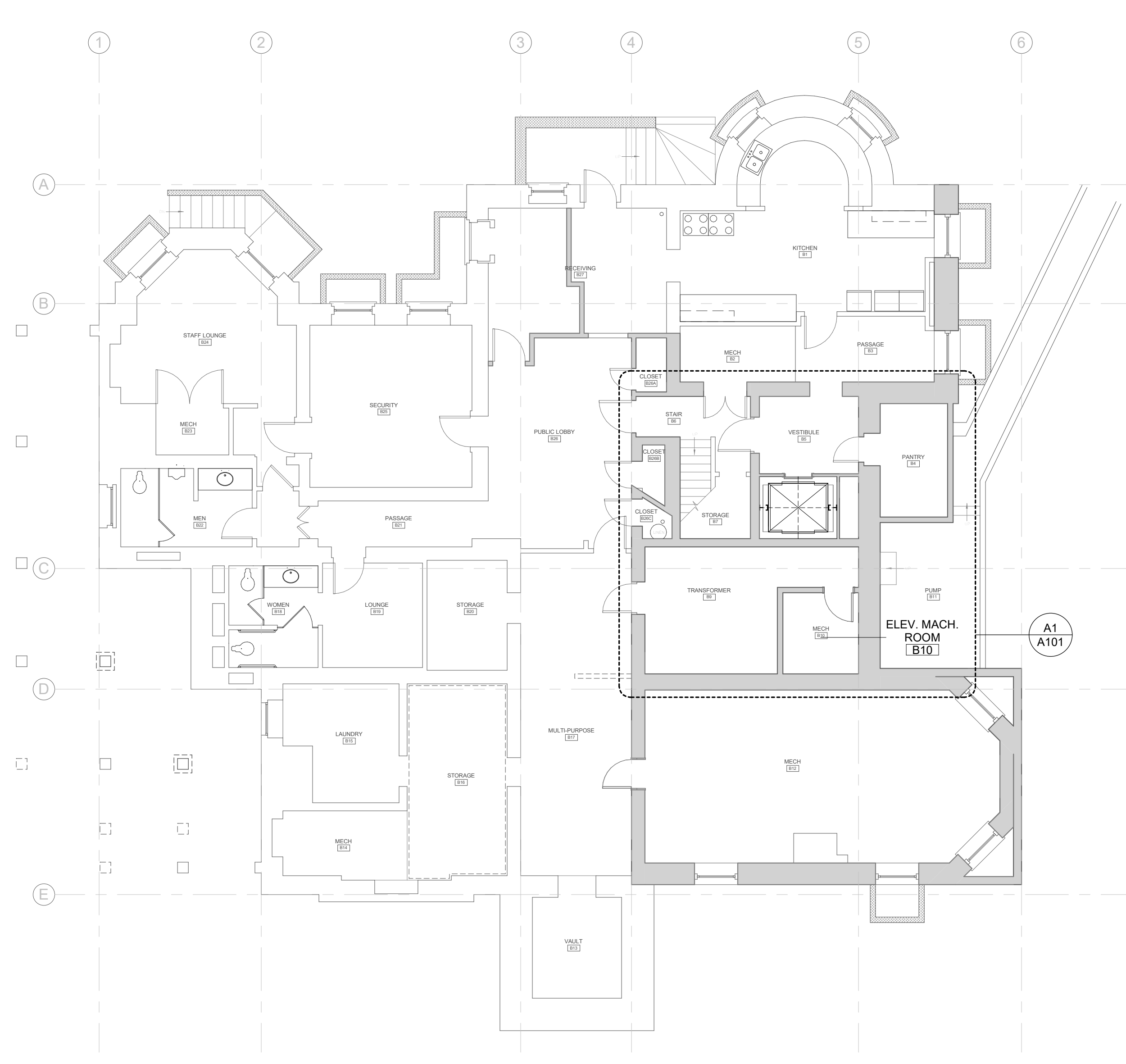
Project
Terrace Hill Elevator Replacement
2300 Grand Avenue
Des Moines, IA 50312

Construction Manager
DCI Group
220 SE 6TH STREET - SUITE 200
DES MOINES, IA 50309
P. 515-244-5043

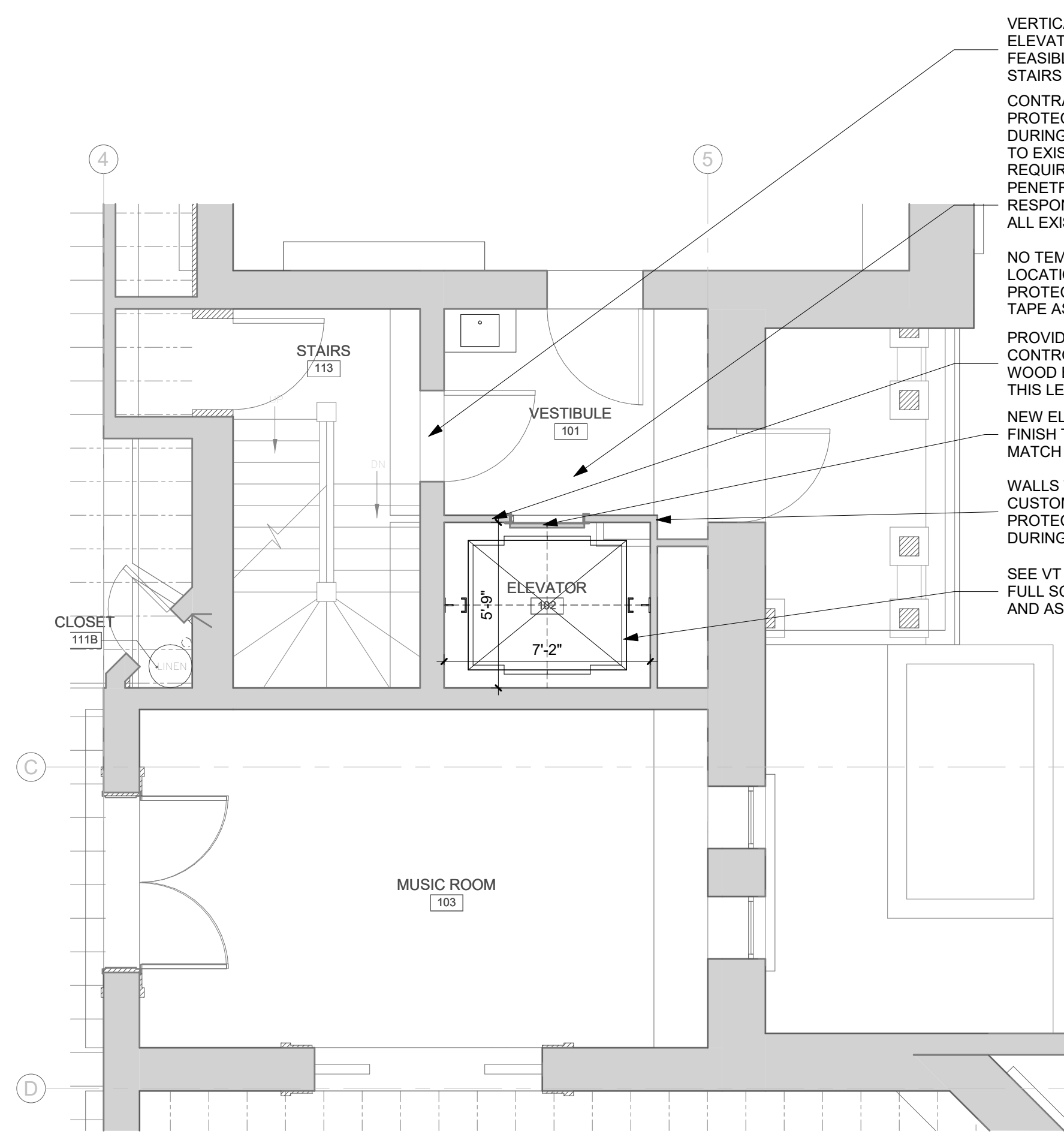
Elevator Consultant
LERCH BATES
7625 GOLDEN TRIANGLE DRIVE, SUITE T
EDEN PRAIRIE, MN 55344
P. 612-441-4335

Mechanical Engineer
KCL ENGINEERING
300 4TH ST
WEST DES MOINES, IA 50265
P. 515-724-7938

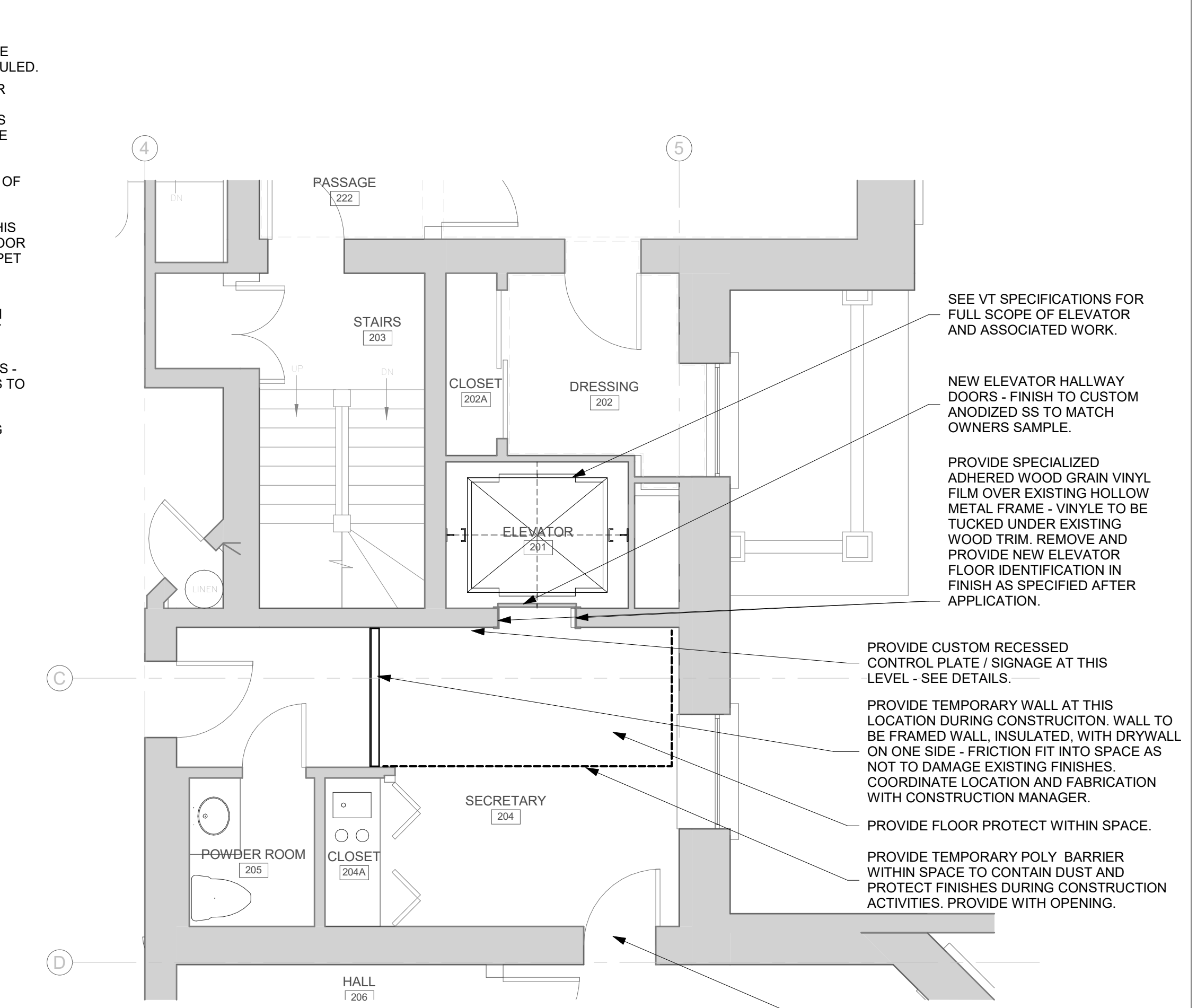
Electrical Engineer
KCL ENGINEERING
300 4TH ST
WEST DES MOINES, IA 50265
P. 515-724-7938



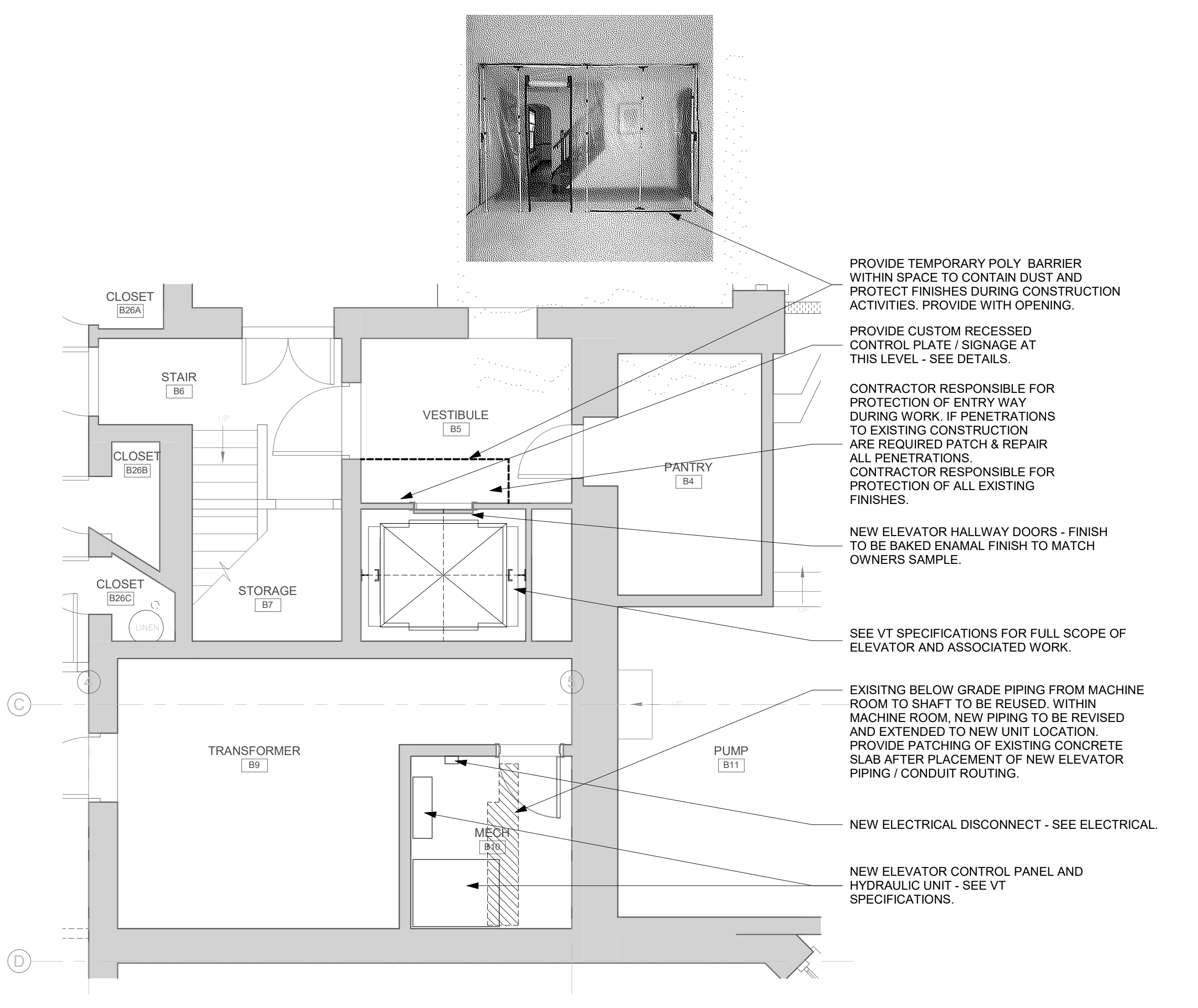
J1 BASEMENT FLOOR PLAN
1/8" = 1'-0"



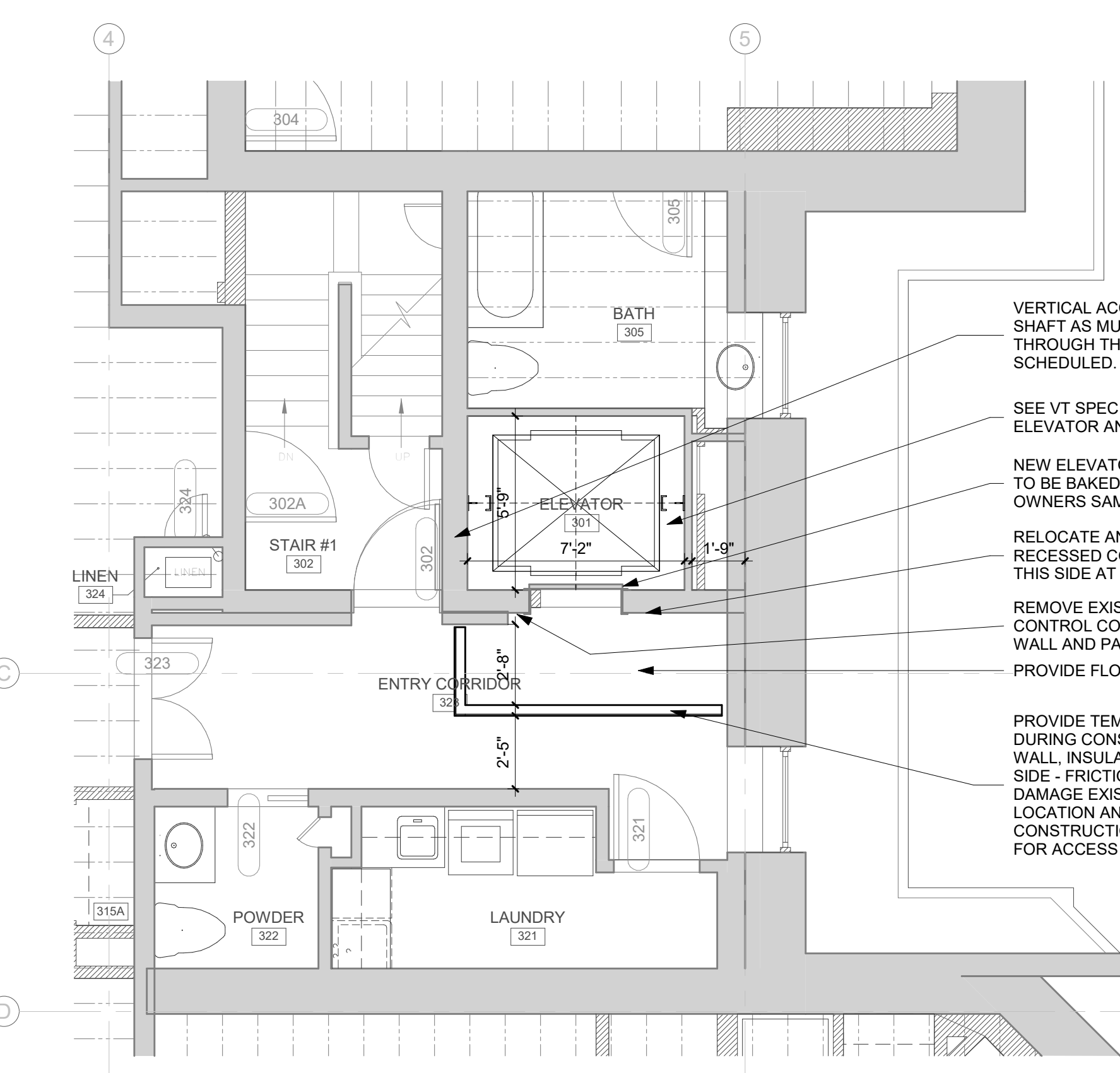
J10 ENLARGED FLOOR PLAN - LEVEL 1
1/4" = 1'-0"



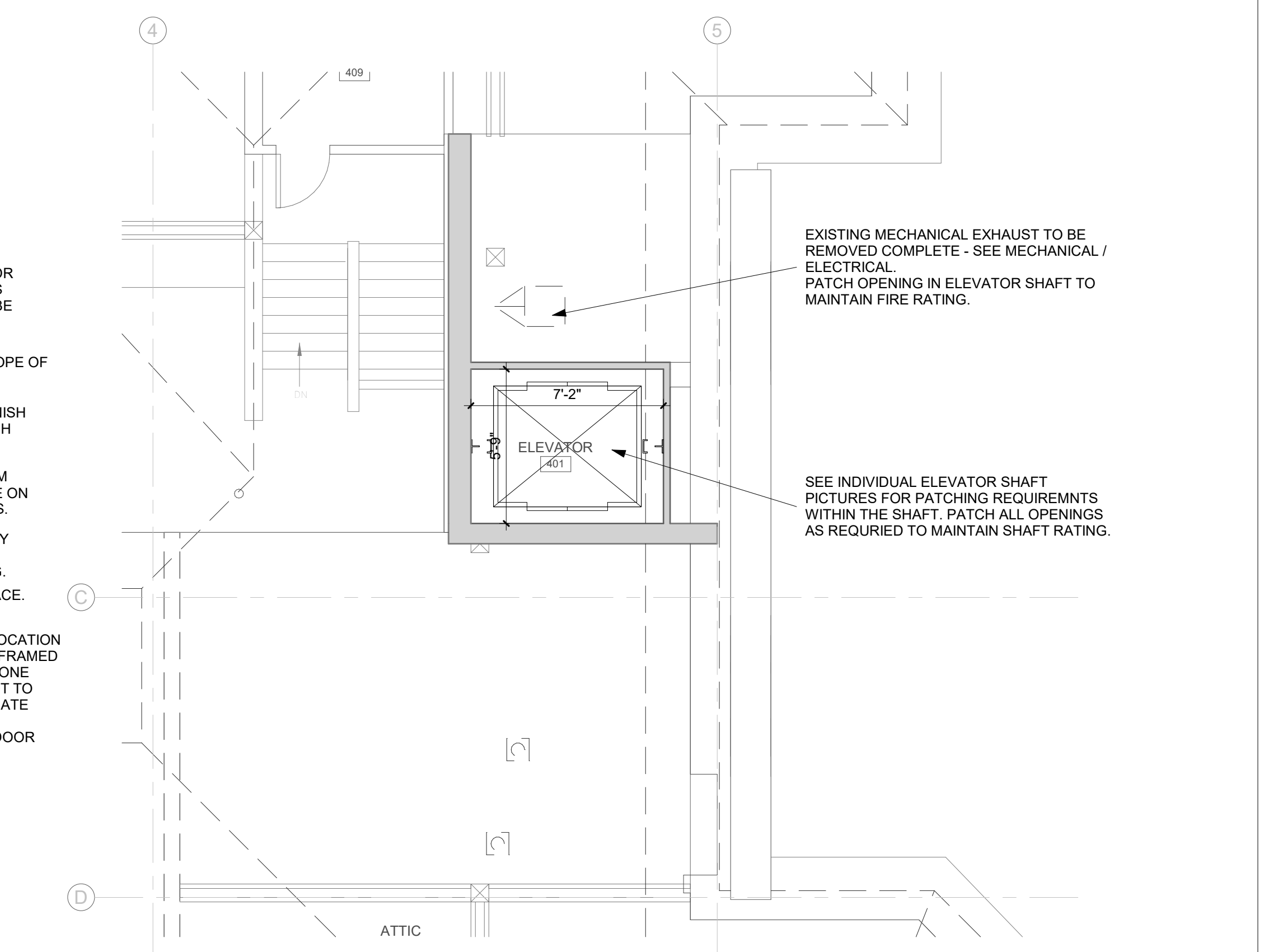
J18 ENLARGED FLOOR PLAN - LEVEL 2
1/4" = 1'-0"



A1 ENLARGED FLOOR PLAN - BASEMENT MACHINE ROOM
1/4" = 1'-0"



A10 ENLARGED FLOOR PLAN - LEVEL 3
1/4" = 1'-0"



A18 ENLARGED FLOOR PLAN - ATTIC
1/4" = 1'-0"

VERTICAL ACCESS THROUGH ELEVATOR SHAFT AS MUCH AS FEASIBLE. ACCESS THROUGH THE STAIRS WILL NEED TO BE SCHEDULED.

CONTRACTOR RESPONSIBLE FOR PROTECTION OF ENTRY WAY DURING WORK. IF PENETRATIONS TO EXISTING CONSTRUCTION ARE REQUIRED, PATCH & REPAIR ALL PENETRATIONS. CONTRACTOR RESPONSIBLE FOR PROTECTION OF ALL EXISTING FINISHES.

NO TEMPORARY BARRIERS AT THIS LOCATION. PROVIDE MINIMAL FLOOR PROTECTION (I.E. ROLLED CARPET TAPE AS NEEDED).

PROVIDE CUSTOM RECESSED CONTROL PLATE / SIGNAGE WITH WOOD BACK PANEL AND TRIM AT THIS LEVEL - SEE DETAILS.

NEW ELEVATOR HALLWAY DOORS - FINISH TO CUSTOM ANODIZED SS TO MATCH OWNERS SAMPLE.

WALLS THIS ROOM ARE EXISTING CUSTOM WALLPAPER FINISH - PROTECT WALL FROM DAMAGE DURING ALL WORK.

SEE VT SPECIFICATIONS FOR FULL SCOPE OF ELEVATOR AND ASSOCIATED WORK.

SEE VT SPECIFICATIONS FOR FULL SCOPE OF ELEVATOR AND ASSOCIATED WORK.

NEW ELEVATOR HALLWAY DOORS - FINISH TO CUSTOM ANODIZED SS TO MATCH OWNERS SAMPLE.

PROVIDE SPECIALIZED ADHERED WOOD GRAIN VINYL FILM OVER EXISTING HOLLOW METAL FRAME - VINYL TO BE TUCKED UNDER EXISTING WOOD TRIM. REMOVE AND PROVIDE NEW ELEVATOR FLOOR IDENTIFICATION IN FINISH AS SPECIFIED AFTER APPLICATION.

PROVIDE CUSTOM RECESSED CONTROL PLATE / SIGNAGE AT THIS LEVEL - SEE DETAILS.

PROVIDE TEMPORARY WALL AT THIS LOCATION DURING CONSTRUCTION. WALL TO BE FRAMED WALL, INSULATED, WITH DRYWALL ON ONE SIDE - FRICTION FIT INTO SPACE AS NOT TO DAMAGE EXISTING FINISHES. COORDINATE LOCATION AND FABRICATION WITH CONSTRUCTION MANAGER.

PROVIDE FLOOR PROTECT WITHIN SPACE.

PROVIDE TEMPORARY POLY BARRIER WITHIN SPACE TO CONTAIN DUST AND PROTECT FINISHES DURING CONSTRUCTION ACTIVITIES. PROVIDE WITH OPENING.

DOOR WILL BE LOCKED AND INACCESSIBLE DURING CONSTRUCTION.

VERTICAL ACCESS THROUGH ELEVATOR SHAFT AS MUCH AS FEASIBLE. ACCESS THROUGH THE STAIRS WILL NEED TO BE SCHEDULED.

SEE VT SPECIFICATIONS FOR FULL SCOPE OF ELEVATOR AND ASSOCIATED WORK.

NEW ELEVATOR HALLWAY DOORS - FINISH TO BE BAKED ENAMEL FINISH TO MATCH OWNERS SAMPLE.

RELOCATE AND PROVIDE NEW CUSTOM RECESSED CONTROL PLATE / SIGNAGE ON THIS SIDE AT THIS LEVEL - SEE DETAILS.

REMOVE EXISTING ELEVATOR HALLWAY CONTROL COMPLETE - PATCH, REPAIR WALL AND PAINT TO MATCH EXISTING. PROVIDE FLOOR PROTECT WITHIN SPACE.

PROVIDE TEMPORARY WALL AT THIS LOCATION DURING CONSTRUCTION. WALL TO BE FRAMED WALL, INSULATED, WITH DRYWALL ON ONE SIDE - FRICTION FIT INTO SPACE AS NOT TO DAMAGE EXISTING FINISHES. COORDINATE LOCATION AND FABRICATION WITH CONSTRUCTION MANAGER. PROVIDE DOOR FOR ACCESS AS REQUIRED.

EXISTING MECHANICAL EXHAUST TO BE REMOVED COMPLETE - SEE MECHANICAL / ELECTRICAL. PATCH OPENING IN ELEVATOR SHAFT TO MAINTAIN FIRE RATING.

SEE INDIVIDUAL ELEVATOR SHAFT PICTURES FOR PATCHING REQUIREMENTS WITHIN THE SHAFT. PATCH ALL OPENINGS AS REQUIRED TO MAINTAIN SHAFT RATING.

Key Plan

Revision	Description	Date

OPN Project No.
24835000

Sheet Issue Date
BID DOCUMENTS 01/03/25

Sheet Name
FLOOR PLANS

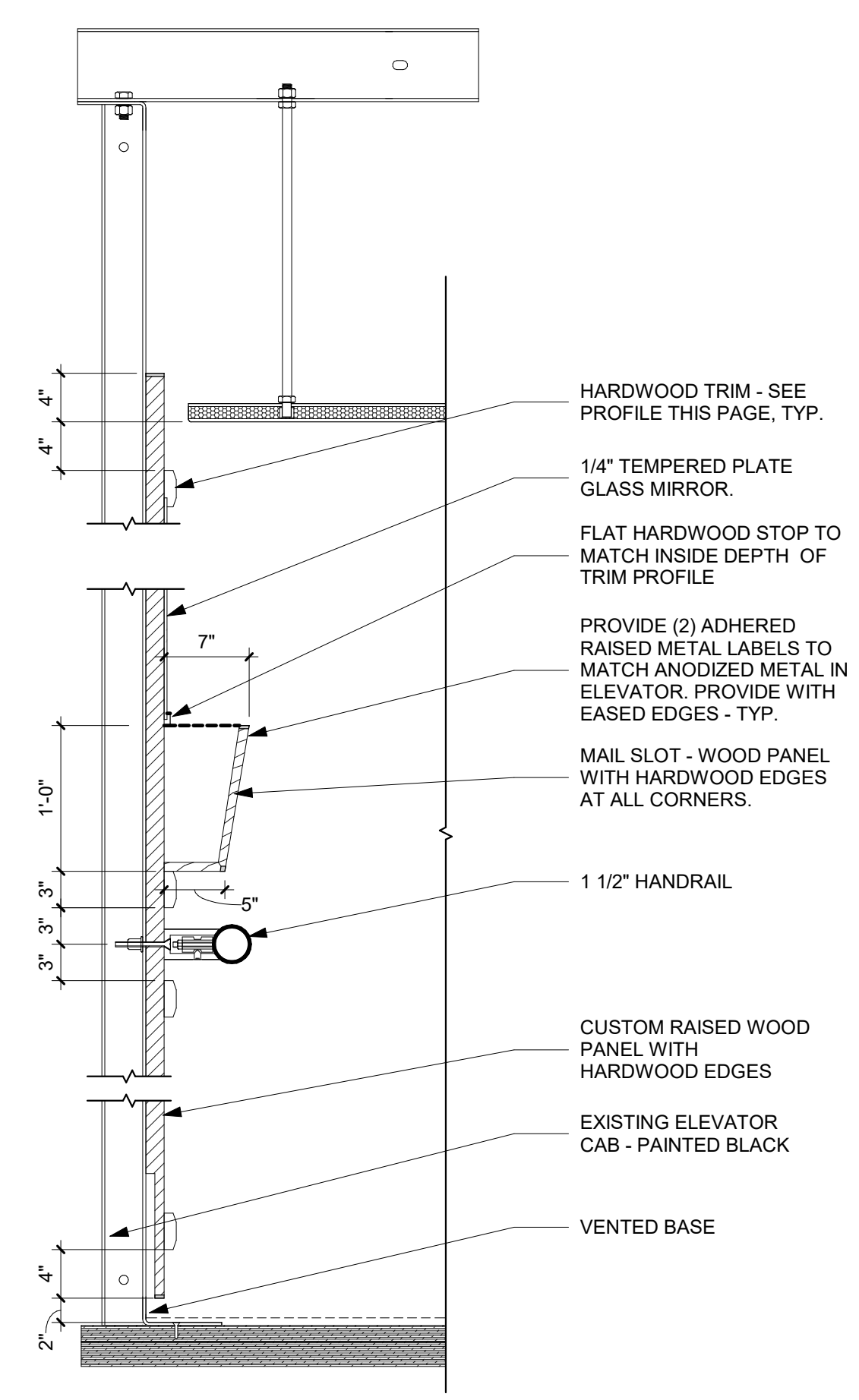
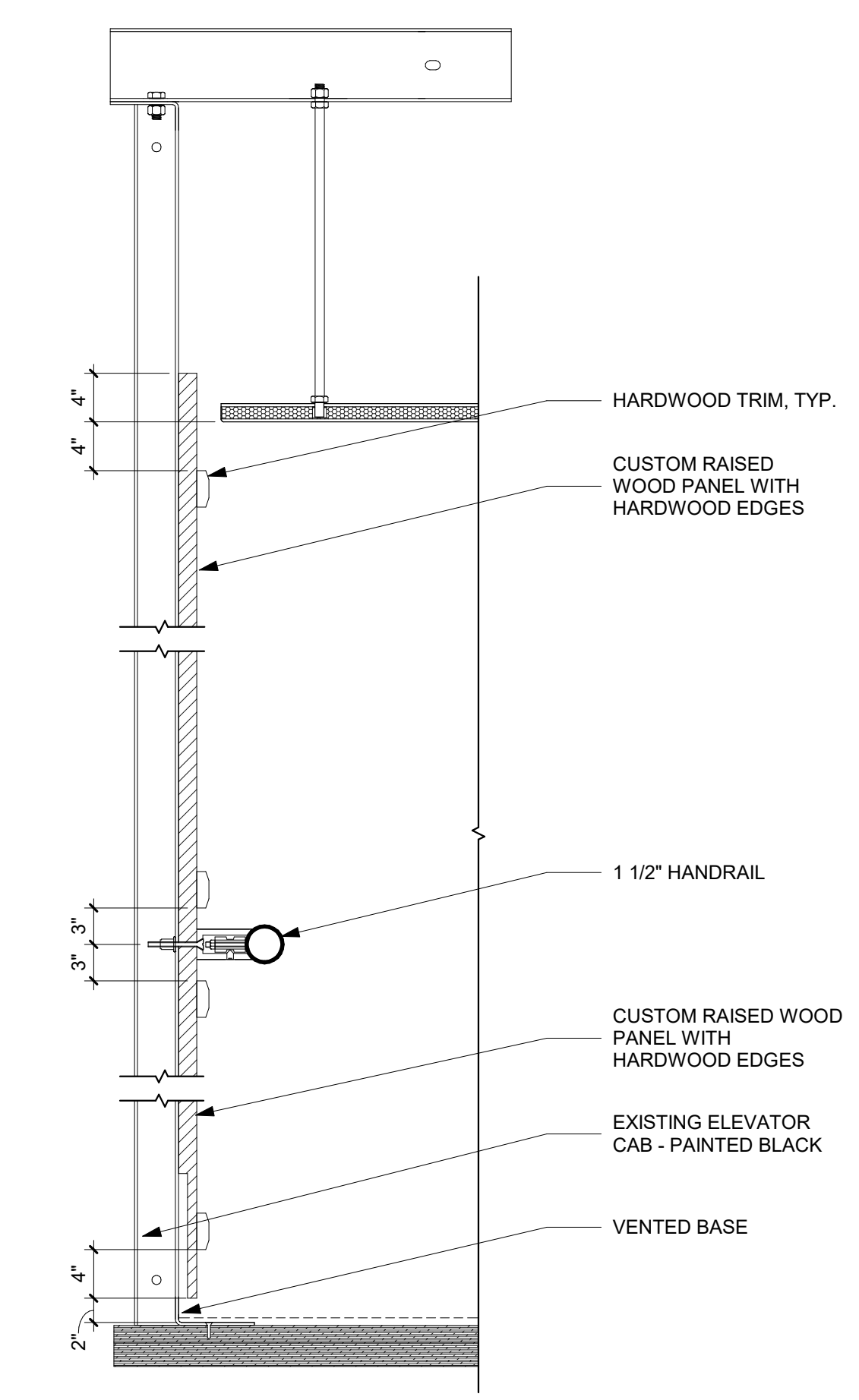
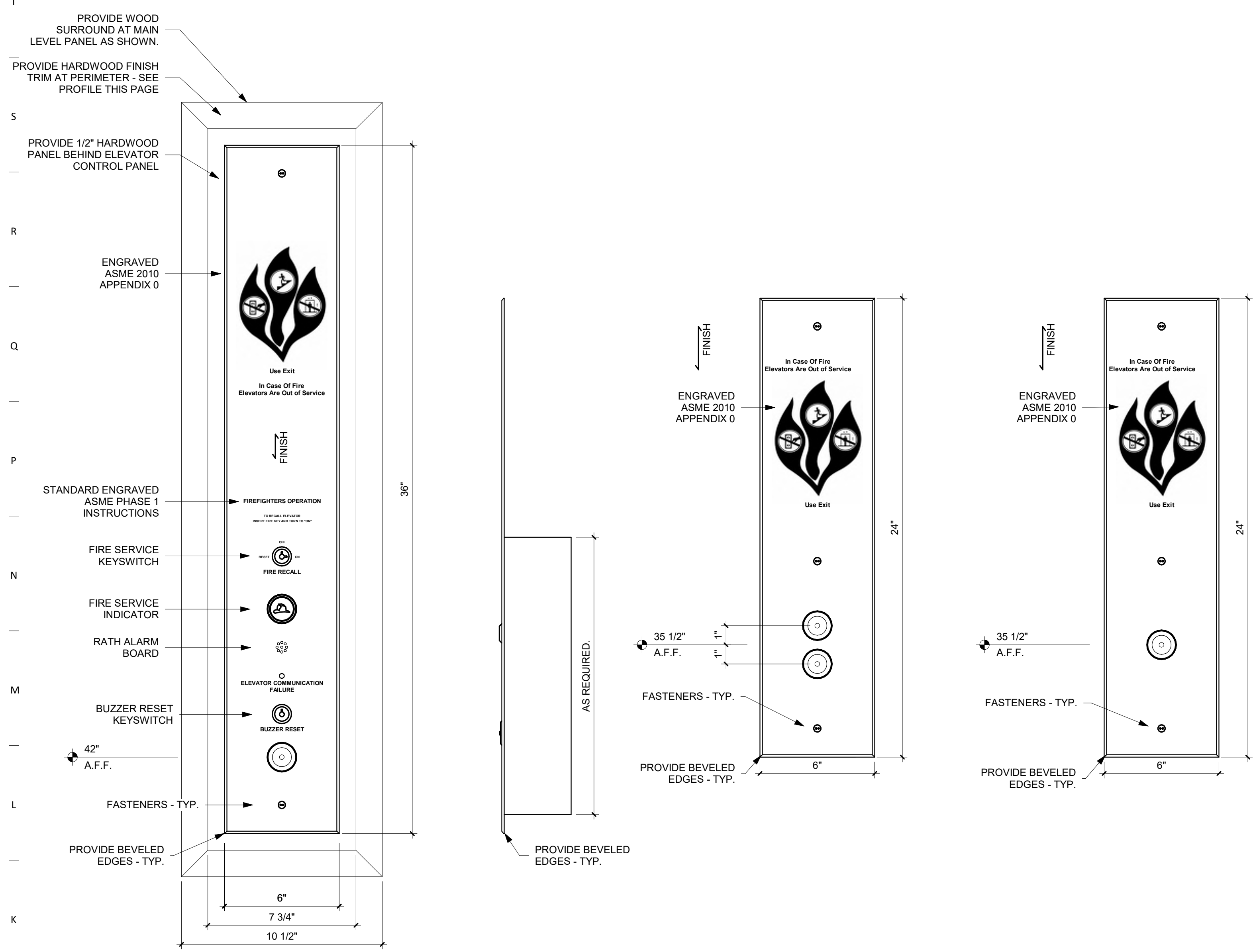
Sheet Number

GENERAL NOTES

- FASTENERS TO BE SPANNERHEAD TYPE PER CUSTOMER REQUEST.
- RI-MEX METAL 16 GA STAINLESS SATIN T-GOLD

FINISH SELECTIONS:

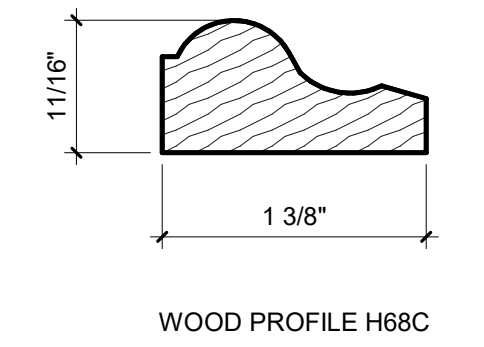
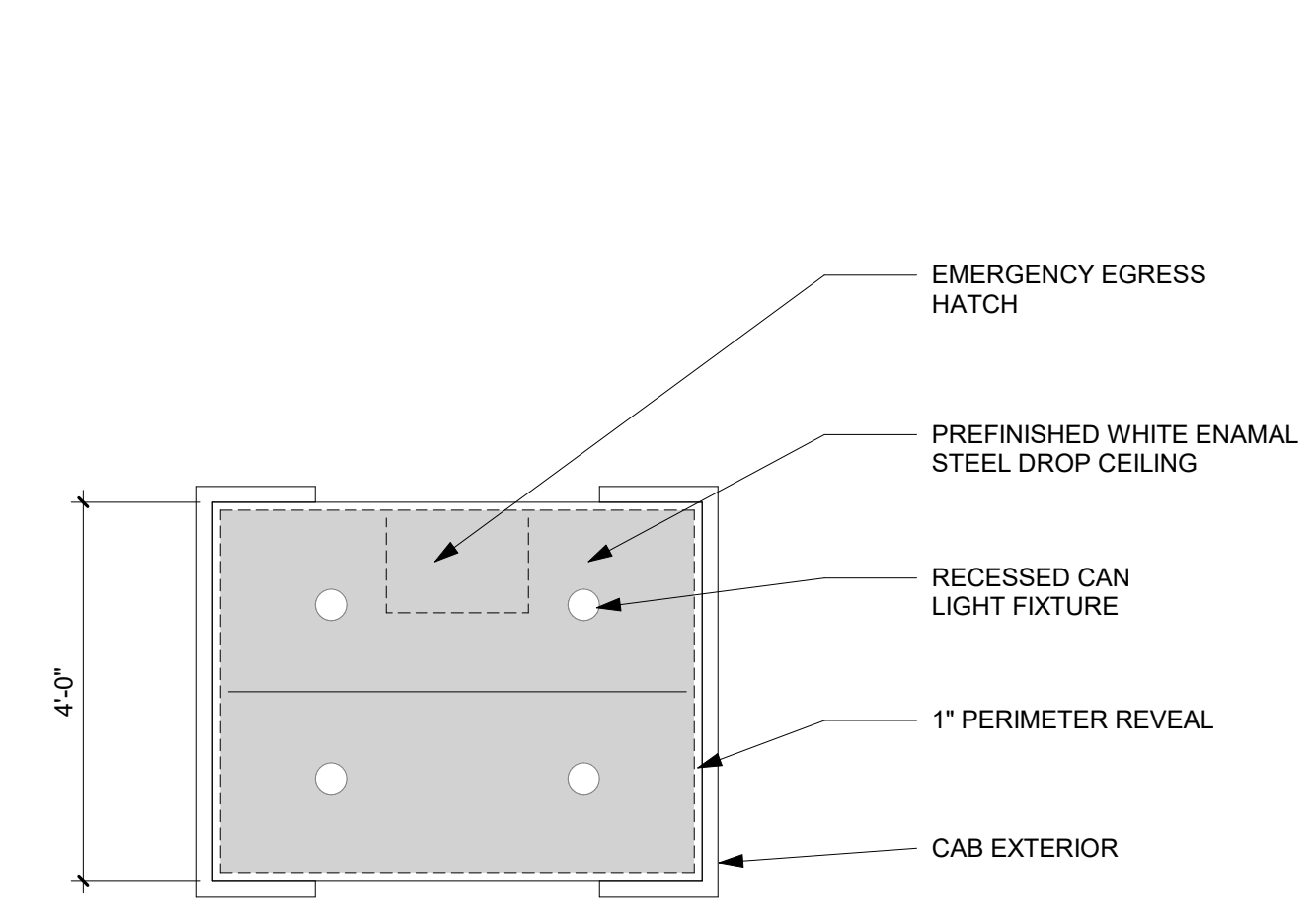
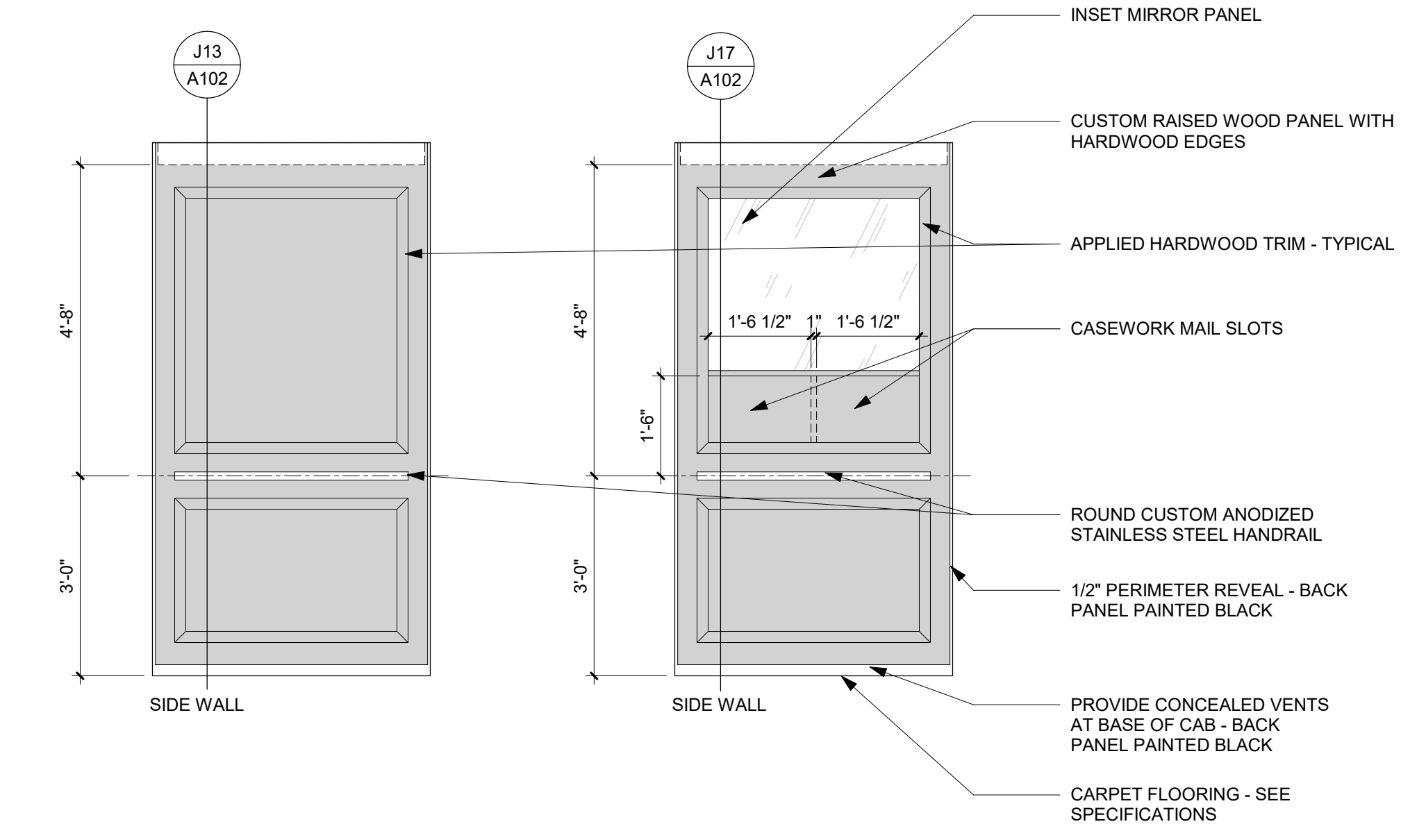
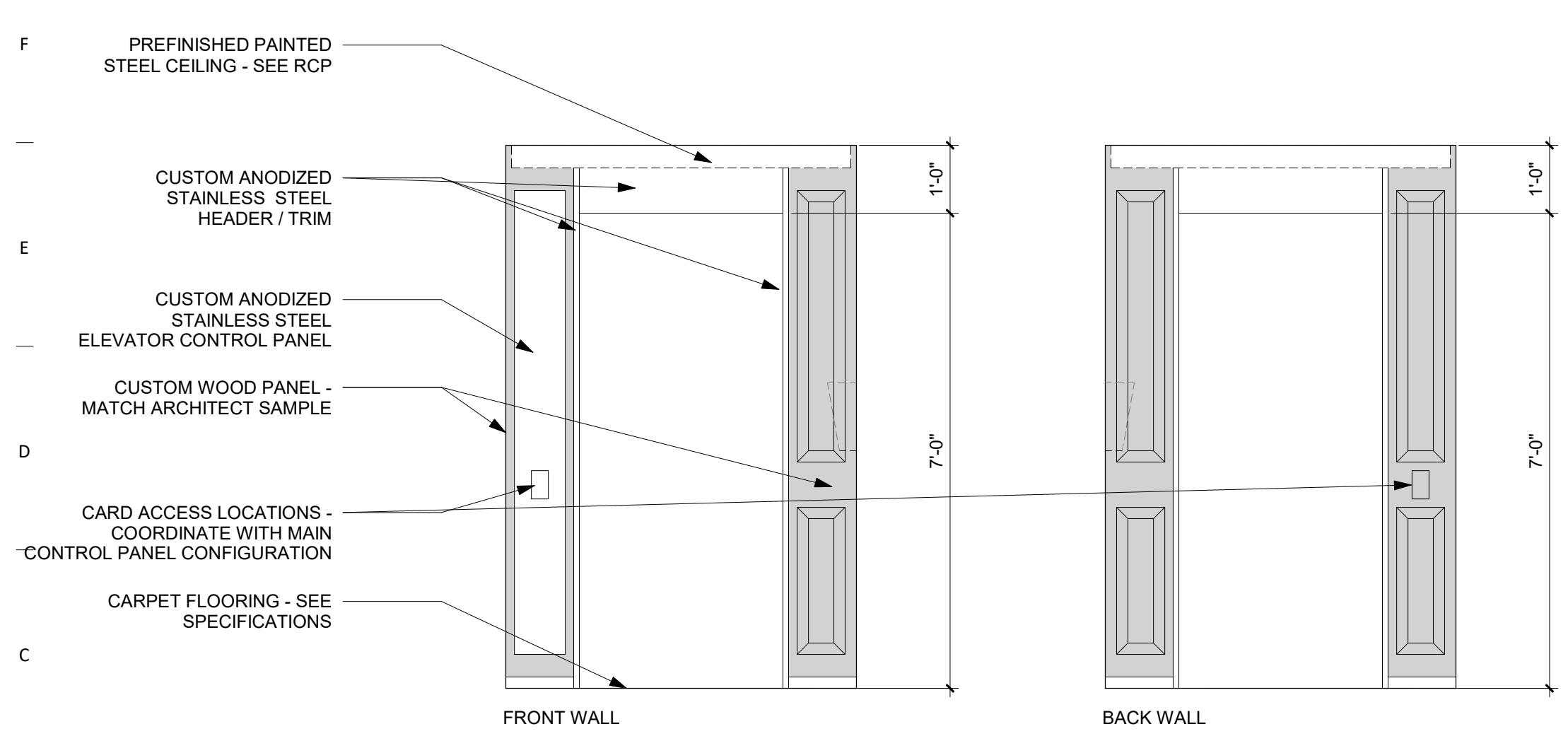
PAINT:		PAINT I-OP	
PT-1	SYSTEM: AS SPECIFIED MANUFACTURER: AS SPECIFIED COLOR: MATCH EXISTING FINISH: MATCH EXISTING APPLICATION: TRIM COLOR AT THIRD FLOOR (CUSTOM ELEVATOR DOOR COLOR)	PT-2A	SYSTEM: AS SPECIFIED MANUFACTURER: AS SPECIFIED COLOR: MATCH EXISTING FINISH: MATCH EXISTING APPLICATION: MATCH EXISTING (SHEEN 1) WALL PAINT AT THIRD FLOOR
PT-2B	SYSTEM: AS SPECIFIED MANUFACTURER: AS SPECIFIED COLOR: MATCH EXISTING FINISH: MATCH EXISTING APPLICATION: MATCH EXISTING (SHEEN 2) WALL PAINT AT THIRD FLOOR	PT-3	SYSTEM: AS SPECIFIED MANUFACTURER: AS SPECIFIED COLOR: MATCH EXISTING FINISH: MATCH EXISTING APPLICATION: WALL PAINT AT SECOND FLOOR
PT-4	SYSTEM: AS SPECIFIED MANUFACTURER: AS SPECIFIED COLOR: MATCH EXISTING FINISH: MATCH EXISTING APPLICATION: WALL PAINT AT LOWER LEVEL	CARPET:	
CPT-1	MANUFACTURER: KINETEX STYLE: AGAINST THE GRAIN COLOR: 2819 BARLEY SIZE: 12" X 48" INSTALLATION: ASHLAR PATTERN APPLICATION: ELEVATOR FLOORING	WOOD:	
WD-1	WOOD: RIFT CUT WHITE OAK COLOR: TO MATCH ARCHITECTS SAMPLE FINISH: SATIN FINISH APPLICATION: WOOD FINISHES AS CALLED OUT	APPLIED VINYL:	
V-1	MANUFACTURER: 3M PRODUCT: DYNOC ARCHITECTURAL FINISHES PATTERN: FINE WOOD COLOR: WG-7024EX APPLICATION: EXISTING ELEVATOR FRAME COVER	ANODIZED METAL:	
MT-1	MANUFACTURER: RI-MEX METALS (USA) INC. METAL: 304 STAINLESS STEEL COLOR: T22 PRESTIGE GOLD FINISH: VORTEX FPR APPLICATION: ELEVATOR FINISHES, HANDRAILS		



J1 ELEVATIONS - ELEVATOR CONTROLS
3" = 1'-0"

J13 SECTION DETAIL - ELEVATOR CAB - 1
1" = 1'-0"

J17 SECTION DETAIL - ELEVATOR CAB - 2
1" = 1'-0"



A1 ELEVATOR CAB FINISHES
1/2" = 1'-0"

A17 ELEVATOR CAB FINISHES - RCP
1/2" = 1'-0"

A21 HARDWOOD TRIM PROFILE
12" = 1'-0"

Key Plan

Revision	Description	Date

OPN Project No.
24835000

Sheet Issue Date
BID DOCUMENTS 01/03/25

Sheet Name
ELEVATOR DETAILS

Sheet Number

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DUCT INSULATION SCHEDULE					
DUCT TYPE	HVAC EQUIPMENT	DUCT DETAILS	PRESSURE CLASS	INSULATION TYPE	INSULATION THICKNESS
EXHAUST AIR DUCT	FROM EXHAUST FAN TO EXTERIOR BUILDING PENETRATION	RECTANGULAR GALVANIZED STEEL	+2 INCH WG	WRAPPED MINERAL FIBER	1-1/2 INCH
TRANSFER DUCT	N/A	RECTANGULAR GALVANIZED STEEL	-1/2 INCH WG	NONE	N/A

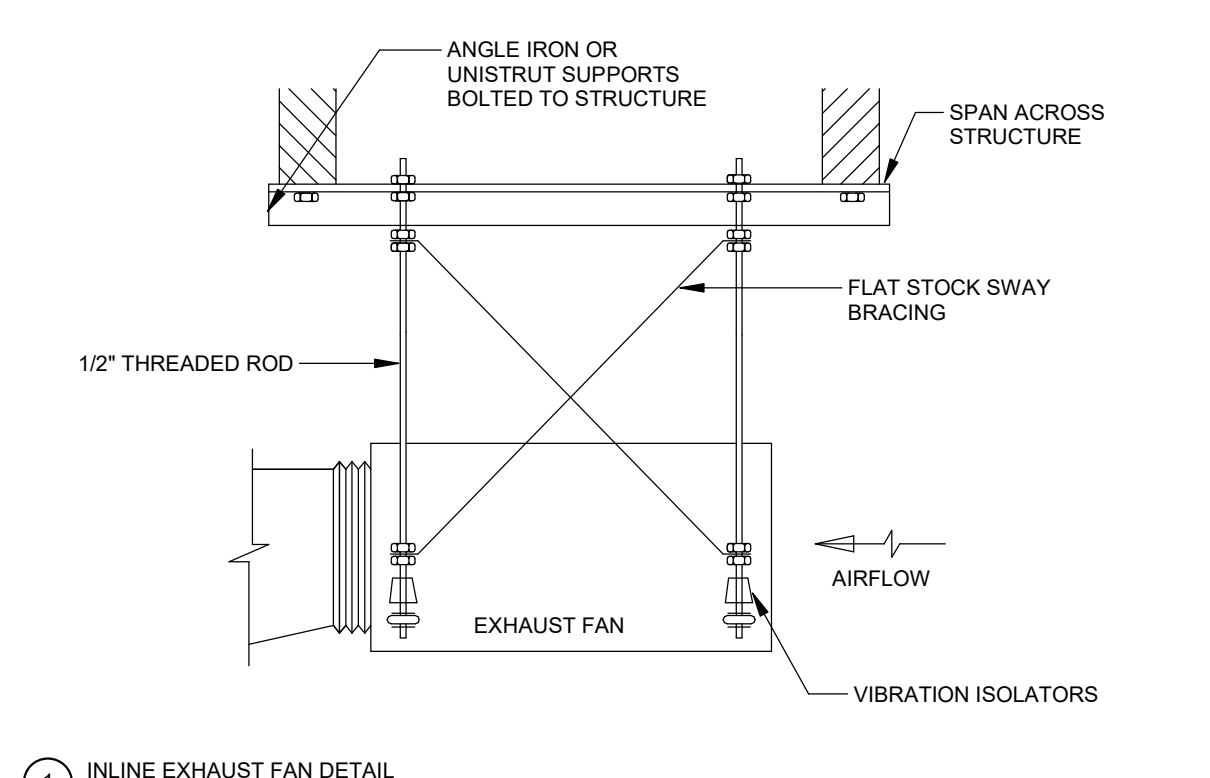
1. ALL DUCTWORK SHALL BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH 2021 INTERNATIONAL MECHANICAL CODE.

GRILLES REGISTERS AND DIFFUSERS SCHEDULE								
REFERENCE	MATERIAL	MARGIN (IN)	INLET (IN)	FACE (IN)	DAMPER	MFR	MODEL	NOTES
RG-1 (RETURN GRILLE)	ALUMINIUM	1 1/4"	SEE DWG	24 x 24	NO	TITUS	PAR	1,2
RG-2 (RETURN GRILLE)	ALUMINIUM	1 1/4"	SEE DWG	INLET +2	NO	TITUS	350FL	1,2

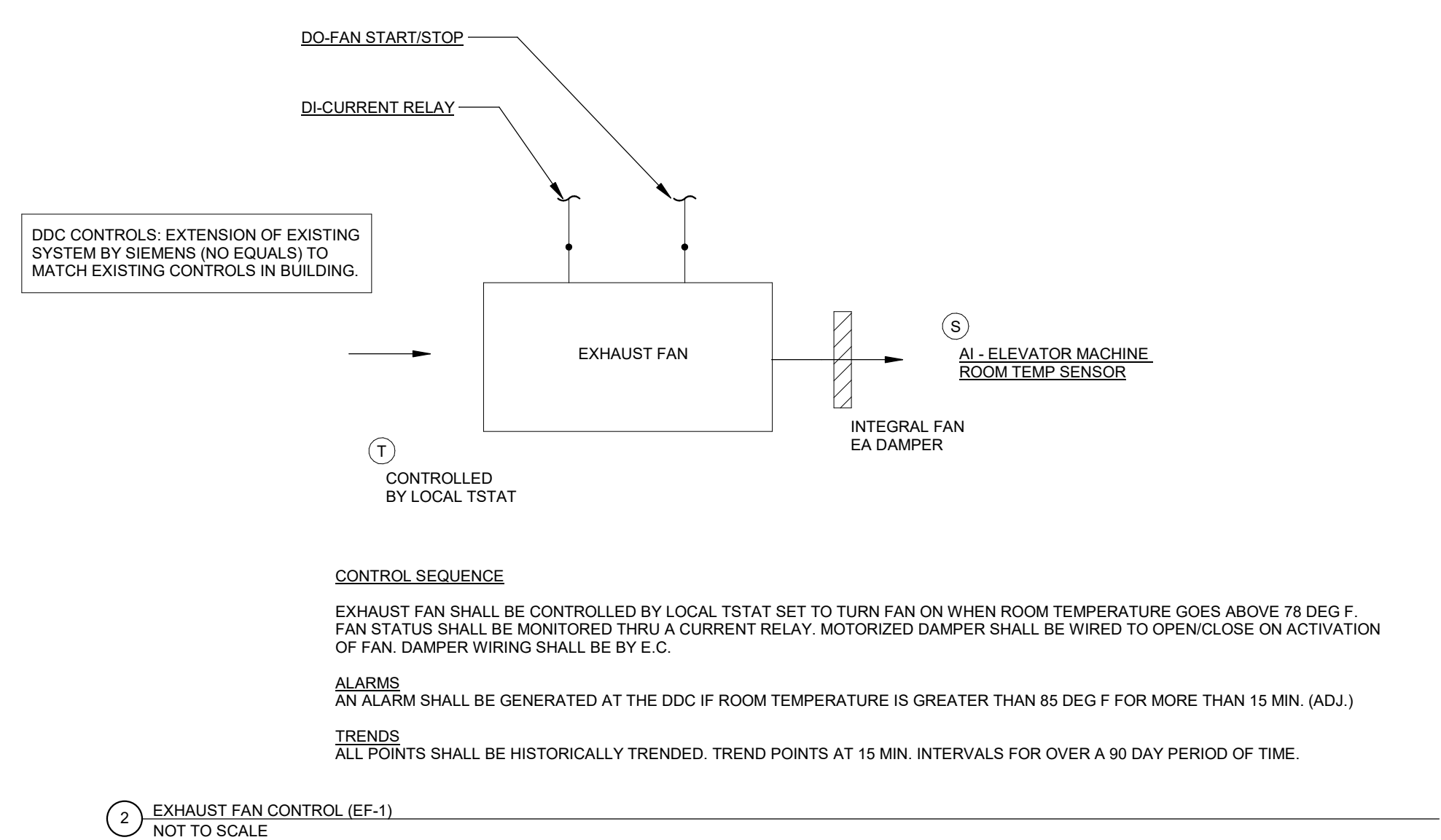
NOTES:
 1. REFER TO ARCH DRAWINGS FOR FINAL CEILING TYPE FOR MOUTING TYPE.
 2. PROVIDE WITH WHITE FINISH.

FAN SCHEDULE	
REFERENCE	EF-1
MANUFACTURER	GREENHECK
MODEL #	SQ-97-VG
TYPE	INLINE EXHAUST
SERVES	ELEVATOR EQUIPMENT ROOM
CFM	250
ESP (IN. W.C.)	0.50
FAN RPM	1712
BELT/DIRECT	DIRECT
SPEED CONTROL (YES/NO)	YES
SONES	14.0
BACKDRAFT (MOTOR/GRAVITY/NONE)	MOTORIZED (MFR PROVIDED)
BHP	0.16
MOTOR HP	1/4
VOLTAGE/PH	120/1
NOTES	1,2,3,4

NOTES:
 1. INTEGRAL STARTER AND DISCONNECT BY FAN MFR.
 2. PROVIDE WITH POTENTIOMETER DIAL SPEED CONTROL TO BE LOCATED IN UNIT HOUSING. WIRING BY EC.
 3. FAN TO OPERATED VIA WALL THERMOSTAT. TSTAT BY MC AND WIRING BY EC. TSTAT SET TO 78F.
 4. PROVIDE INSULATED MOTORIZED DAMPER ON OUTLET OF FAN TO OPEN/CLOSE WITH FAN OPERATION. WIRING BY EC.



1. INLINE EXHAUST FAN DETAIL. NOT TO SCALE.



2. EXHAUST FAN CONTROL (EF-1) NOT TO SCALE.

MECHANICAL ABBREVIATIONS			
ABSOR	ABSORPTION	FT	FINTURE
ACU	AIR CONDITIONING UNIT	FTG	FOOTING
AD	ACCESS DOOR OR AREA DRAIN	GA	GAGE
AFF	ABOVE FINISHED FLOOR	GAL	GALLON
AFG	ABOVE FINISHED GRADE	GALV	GALVANIZED
AHU	AIR HANDLING UNIT	GC	GENERAL CONTRACTOR
AV	AIR VEINT	GW	GREASE WASTE
BOT	BOTTOM	GPH	GALLONS PER HOUR
BTU	BRITISH THERMAL UNIT	GPM	GALLONS PER MINUTE
BTUH	BTU PER HOUR	HR	HOUR
BV	BALL VALVE	HTG	HEATING
CA	COMPRESSED AIR	HB	HOSE BBBB
CB	CATCH BASIN	ISP	INTERNAL STATIC PRESSURE
CENT	CENTRIFUGAL	JR	JANITOR RECEPTOR
CFM	CUBIC FEET PER MINUTE	LAV	LAVATORY
CI	CAST IRON	LDBT	LEAVING DRY BULB TEMPERATURE
CL	CENTER LINE	LWT	LEAVING WATER TEMPERATURE
COND	CONDENSATE	LWBST	LEAVING WET BULB TEMPERATURE
CO	CLEAN OUT	MB	MOTOR BASIN
CONC	CONCRETE	MBH	1000 BTUH
CONTR	CONTRACTOR	MC	MECHANICAL CONTRACTOR
CP	CONDENSATE PUMP/CIRC. PUMP	MECH	MECHANICAL
CU	COPPER	MH	MANHOLE
CUH	CABINET UNIT HEATER	MH	MANHOLE
CWP	CIRCULATING WATER PUMP	NTS	NOT TO SCALE
DDC	DIRECT DIGITAL CONTROLS	OD	OVERFLOW ROOF DRAIN
DN	DOWN	PC	PLUMBING CONTRACTOR
DR	DRAIN	PSI	POUNDS PER SQUARE INCH
DS	DOWNSPOUT	PRV	POWER ROOF VENTILATOR
EA	EXHAUST AIR	PRV	PRESSURE REDUCING VALVE
EAT	EXHAUST AIR TEMPERATURE	PVC	POLYVINYL CHLORIDE
EC	ELECTRICAL CONTRACTOR	RA	RETURN AIR
EDBT	ENTERING DRY BULB TEMPERATURE	RD	ROOF DRAIN
EEW	EMERGENCY EYE WASH	RH	RELATIVE HUMIDITY
EF	EXHAUST FAN	RTU	ROOF TOP UNIT
EJ	EXPANSION JOINT	RV	RELIEF VALVE
EQUIP	EQUIPMENT	RVT	ROOF VENT TERMINATION
ESE	EMERGENCY SHOWER/EYE WASH	SK	SINK
EST	EXTERNAL STATIC PRESSURE	SLV	SUPPLY AIR
EWBT	ENTERING WET BULB TEMPERATURE	SH	SHOWER
EWC	ENTERING WATER COOLER	SO	STORM OVERFLOW
EWT	ENTERING WATER TEMPERATURE	ST	STORM
EX	EXISTING	TCC	TEMPERATURE CONTROL CONTRACTOR
EXH	EXHAUST	TYP	TYPICAL
EXP	EXPANSION	UH	UNIT HEATER
FAL	FRESH AIR INTAKE	UR	URINAL
FCU	FAN COIL UNIT	UV	UNIT VENTILATOR
FD	FLOOR DRAIN	VA	VENTILATION AIR
FDC	FIRE DEPARTMENT CONNECTION	VTR	VENT THROUGH ROOF
FLEX	FLEXIBLE	WB	WALL BOX - CONDENSATE
FLR	FLOOR	WC	WATER CLOSET
FPM	FEET PER MINUTE	WHA	WATER HAMMER ARRESTOR
FPS	FEET PER SECOND	WH	WATER HEATER
FS	FLOOR SINK		
FSEC	FOOD SERVICE EQUIPMENT CONSULTANT		

FIRE PROTECTION - NOTES

- COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
- REVISE EXISTING SYSTEM TO PROVIDE A COMPLETE FIRE PROTECTION SYSTEM INCLUDING PIPE, SPRINKLERS, COVERS, VALVES, FLOW SWITCHES, HANGERS, SUPPORTS, EQUIPMENT, AND ALL APPURTENANCES. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SIZE AND INSTALL FIRE PROTECTION SYSTEM PER NFPA 13. COMPLY WITH ALL LOCAL AND STATE CODES AND REQUIREMENTS.
- DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF FIRE PROTECTION SYSTEM. ROUTE PIPING TO AVOID AND/OR MINIMIZE CONFLICT WITH OTHER TRADES. PIPING REQUIRED TO BE SLOPED HAS PRIORITY IN COORDINATION.
- LOCATE SPRINKLER HEADS TO PROVIDE SUFFICIENT COVERAGE IN INDIVIDUAL SPACES WITHOUT CONFLICT WITH LIGHTS, DIFFUSERS, AIR TERMINALS, AND OTHER CEILING ELEMENTS.
- PROVIDE MANUAL DRAIN VALVES AT ALL LOW POINTS IN THE SYSTEM WHERE OFFSETS ARE REQUIRED TO AVOID COORDINATION CONFLICTS.
- DO NOT INSTALL SPRINKLER MAINS SHALL THROUGH COMMUNICATION OR ELECTRICAL ROOMS. INSTALL SIDEWALL SPRINKLER HEADS IN COMMUNICATION AND ELECTRICAL ROOMS WITH NO PIPING INSIDE THE ROOM WHENEVER POSSIBLE.
- DO NOT INSTALL SPRINKLER PIPING OR SPRINKLERS THAT ENCR OACH ON THE REQUIRED CLEARANCE OF ANY OTHER EQUIPMENT. RELOCATE PIPING AND HEADS WHERE CLEARANCES ARE OBSTRUCTED.
- PROVIDE PROTECTIVE COVERS OVER ALL EXPOSED SPRINKLER HEADS LOCATED IN AREAS OF LOW HEAD HEIGHT WHERE EXPOSED HEADS MAY BE DAMAGED.
- INCLUDE COST TO REMOVE AND REPLACE ALL EXISTING PIPING IN OUTLINED SCOPE OF WORK AREA, AS THE EXISTING PIPING MAY CONFLICT WITH NEW DUCTWORK. NEW DUCTWORK HAS PRIORITY OVER NEW AND EXISTING SPRINKLER PIPING.

MECHANICAL - GENERAL NOTES

- COORDINATE MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN AFTER COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE BUILDING STRUCTURE, ARCHITECTURAL ASSEMBLIES, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK ASSOCIATED WITH FAILURE TO COORDINATE.
- INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
- REFER TO ARCHITECTURAL SPECIFICATIONS FOR THROUGH-PENETRATION FIRESTOPPING AND TO ARCHITECTURAL CODE PLAN FOR FIRE RATED WALLS, FLOORS, AND CEILINGS. EACH TRADE IS RESPONSIBLE TO FIRESTOP PENETRATIONS THROUGH RATED ASSEMBLIES.
- EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT, PATCH, CONCEAL, OR CAULK OVERCUT.
- COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
- CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
- CREATE OPENINGS IN THE BUILDING THAT ARE REQUIRED TO REMOVE EXISTING ITEMS AND TO BRING IN NEW EQUIPMENT. PATCH ALL OPENINGS CREATED AND FINISHED WITH MATERIALS TO MATCH EXISTING CONDITIONS. INCLUDE THIS WORK IN BID.
- ON COMPLETION OF THE INSTALLATION, COOPERATE WITH THE OWNER TO PROVIDE TESTING, ADJUSTING, AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. PROVIDE ALL FACILITIES AND EQUIPMENT AND COMPLETE ALL TESTS REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF EQUIPMENT.

MECHANICAL - DEMOLITION NOTES

- MECHANICAL DEMOLITION DRAWINGS SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON NON-DESTRUCTIVE FIELD OBSERVATION AND AS-BUILT DRAWINGS PROVIDED BY THE OWNER. FIELD VERIFY EXISTING SYSTEMS BEFORE BEGINNING WORK. NOTIFY ARCHITECT/ENGINEER IF EXISTING CONDITIONS ARE MATERIALLY DIFFERENT THAN THOSE SHOWN ON THE PLANS.
- BE FAMILIAR WITH EXISTING MECHANICAL SYSTEMS THAT WILL BE AFFECTED BY THE DEMOLITION WORK. OBTAIN PERMISSION FROM THE OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS THAT AFFECT AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. INFORM THE OWNER'S REPRESENTATIVE OF THE REASON FOR AND DURATION OF THE SHUTDOWN. MINIMIZE IMPACT TO OTHER AREAS. PROCEED WITH THE SHUT-DOWN AFTER PERMISSION FROM THE OWNER IS GRANTED.
- REMOVE PIPING, HANGERS, DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, ETC. THAT ARE INDICATED TO BE REMOVED IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION SPECIFICATIONS. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.
- UNLESS EQUIPMENT TO BE REMOVED IS NOTED AS OWNER'S SALVAGE, DISPOSE OF EQUIPMENT AND/OR MATERIALS INDICATED TO BE REMOVED PROMPTLY.
- REMOVE ALL ABANDONED PIPING AND DUCTWORK THAT IS EXPOSED OR ACCESSIBLE WITHOUT WALL OR CEILING DEMOLITION. REFER TO ARCH PLANS FOR CEILINGS TO BE REMOVED.
- REPAIR OR REPLACE TELECOMMUNICATIONS FACILITIES OR EQUIPMENT FOUND TO BE DAMAGED OR NON-FUNCTIONAL AFTER SUBSTANTIAL COMPLETION.

GENERAL SYMBOLS	
	EXISTING = HALFTONE LINEWORK
	NEW = DARK LINEWORK
	DEMO = DASHED DARK LINEWORK
	BELOW GRADE = LONG DASHED DARK LINEWORK
	NEW CONNECTION POINT
	POINT OF DISCONNECT
	KEYNOTE
	EQUIPMENT IDENTIFICATION TAG
	DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
	SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
	INTERIOR ELEVATION DRAWING REFERENCE TAG

H.V.A.C. / DUCTWORK SYMBOLS

	RECT. DUCT	SUPPLY (SA), OUTSIDE (OA), VENTILATION (VA) AIR DUCT (UP / DOWN / SECTION)
	RND. DUCT	RETURN (RA) AIR DUCT (UP / DOWN / SECTION)
	OVAL DUCT	EXHAUST (EA) AIR DUCT (UP / DOWN / SECTION)
	RECTANGULAR DUCT (WIDTH / HEIGHT / SYSTEM)	
	ROUND DUCT (DIAMETER / SYSTEM)	
	FLAT OVAL DUCT (WIDTH / HEIGHT / SYSTEM)	
	SUPPLY DIFFUSER	
	SUPPLY REGISTER OR GRILLE	
	LINEAR SLOT DIFFUSER	
	RETURN REGISTER OR GRILLE	
	DUCT ACCESS DOOR	
	DUCT END CAP	
	TURNING VANES	
	VAV TERMINAL UNIT	
	FLEXIBLE DUCTWORK	
	ELEVATION CHANGE (RISE OR DROP)	
	BACKDRAFT DAMPER	
	OPPOSED BLADE DAMPER	
	PARALLEL BLADE DAMPER	
	VOLUME DAMPER	
	FIRE DAMPER	
	SMOKE DAMPER	
	FIRE/SMOKE DAMPER	
	MOTORIZED ACTUATOR	
	THERMOSTAT	
	CARBON MONOXIDE SENSOR	
	HUMIDISTAT	
	SIDE WALL DIFFUSER	
	ROUND DIFFUSER	
	EXTERIOR LOUVER	
	FIXTURE IDENTIFICATION TAG NECK SIZE / CFM	

NOTE: ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT

HVAC - NOTES

- COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
- PROVIDE A COMPLETE HVAC SYSTEM, INCLUDING EXHAUST, AND VENTILATION DUCTWORK, MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, DIFFUSERS, GRILLES, REGISTERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.
- DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM, INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED BY ARCHITECT/ENGINEER.
- ALL DUCT DIMENSIONS INDICATED ARE INTERIOR FREE AREA DUCT DIMENSIONS AND DO NOT INCLUDE INSULATION REQUIREMENTS.
- SEAL ALL WALL AND FLOOR DUCT PENETRATIONS. PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.
- CONTINUE DUCT AND PIPE INSULATION THROUGH WALLS, FLOORS, AND CEILING PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED IN DUCTWORK. SEAL AROUND DUCT INSULATION AT WALL PENETRATIONS.

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Key Plan

Revision	Description	Date

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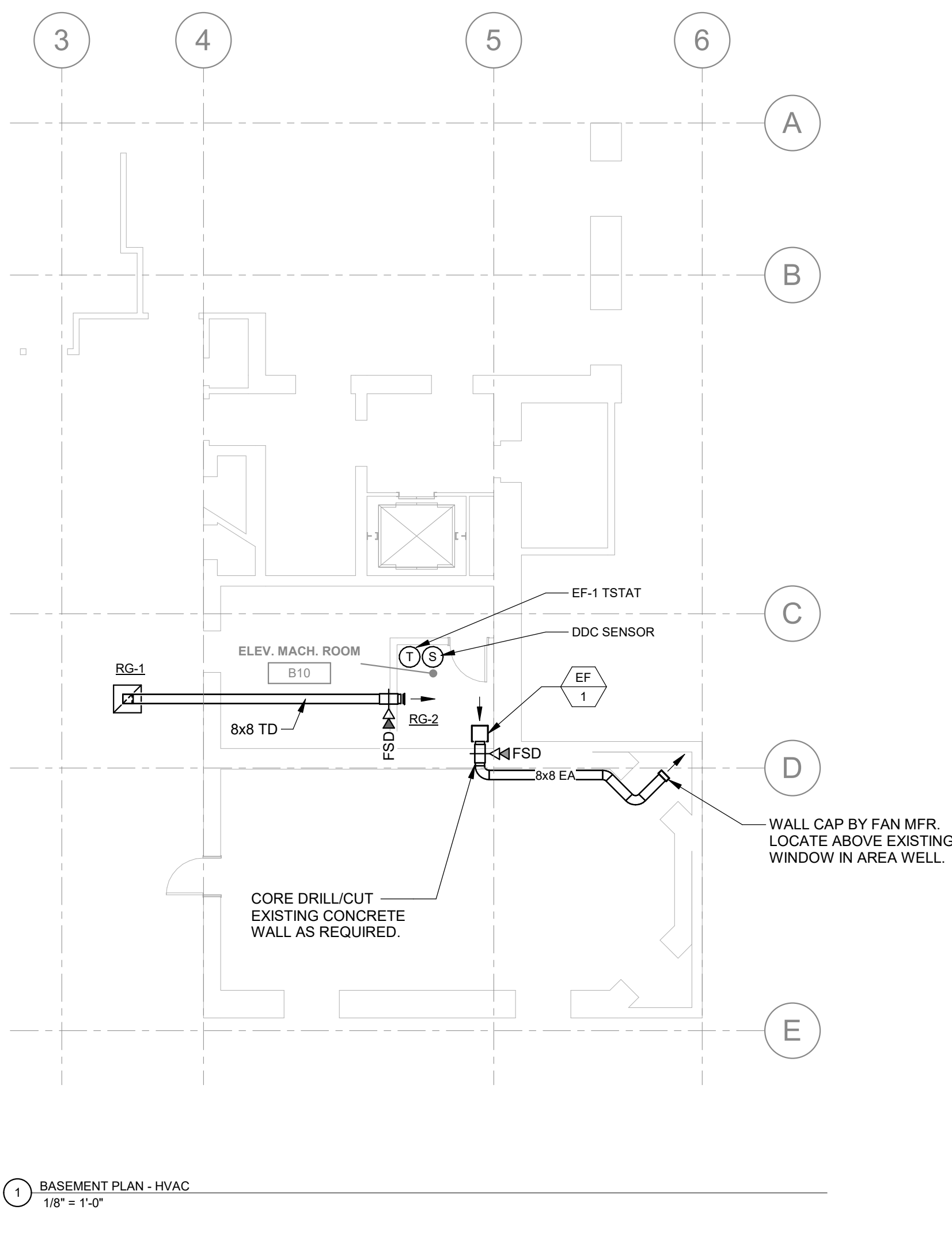
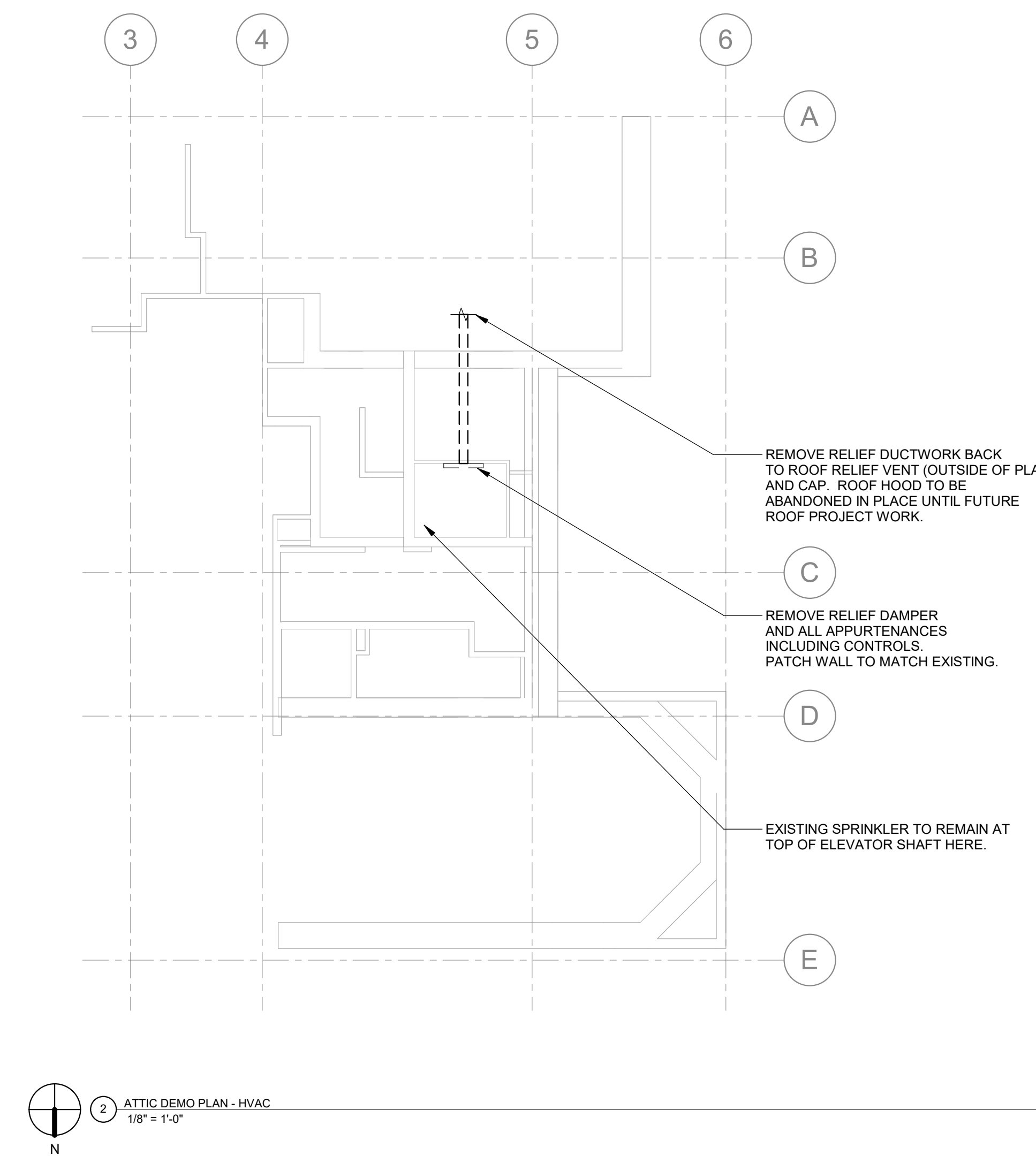
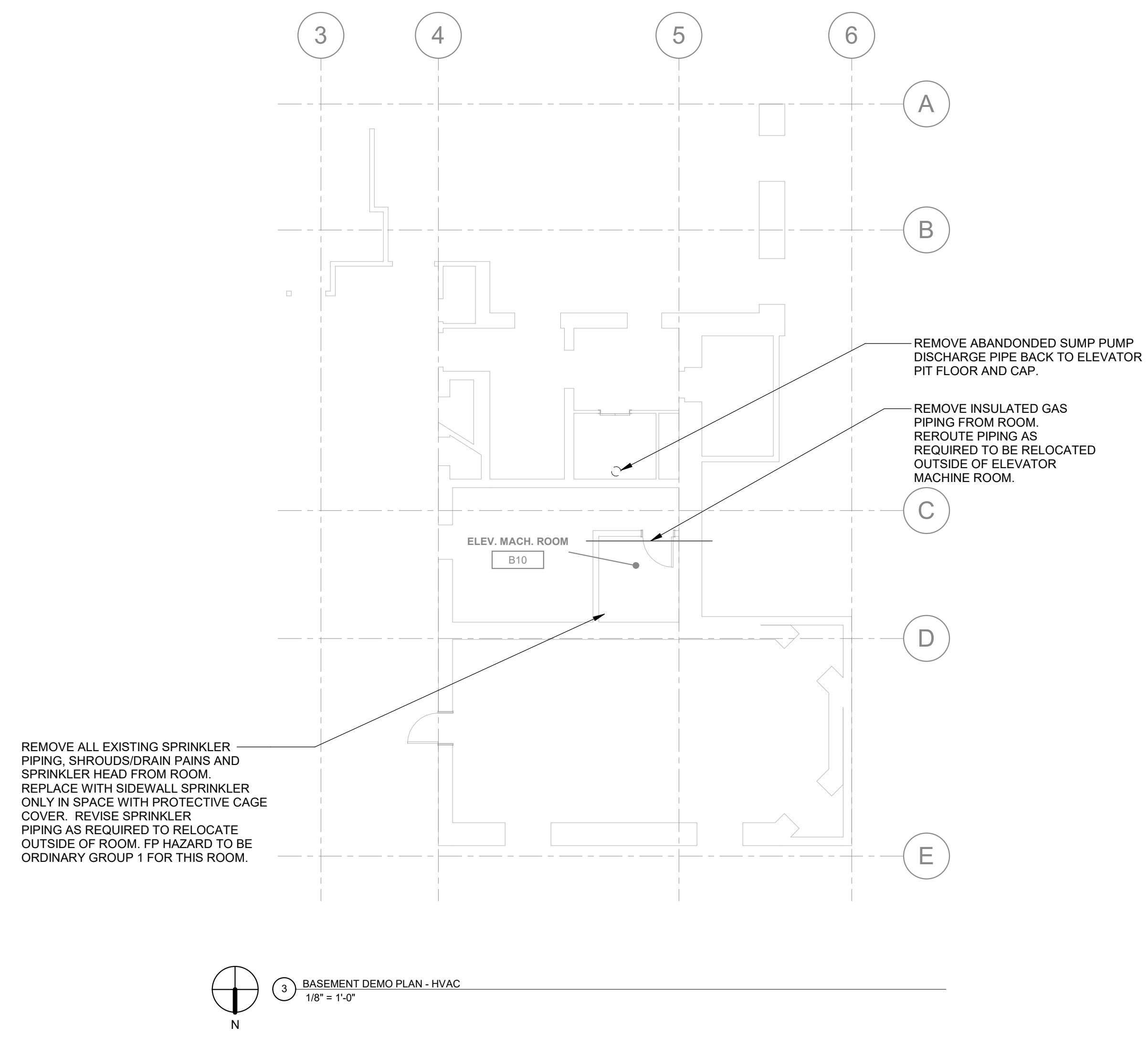
Sheet Issue Date
BID DOCUMENTS 01/03/25

Sheet Name
MECHANICAL GENERAL NOTES & SYMBOLS

Sheet Number
M000

GENERAL NOTES:

- A. REFER TO M000 FOR GENERAL NOTES, SYMBOLS, HVAC DETAILS AND HVAC SCHEDULES.
- B. BRANCH DUCT SIZES TO AIR TERMINALS SHALL MATCH NECK SIZE OF GRILLE, REGISTER, OR DIFFUSER UNLESS NOTED OTHERWISE.
- C. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSERS SHALL BE 60', WITH MAXIMUM OF ONE 90 DEGREE ELBOW.
- D. PATCH ALL WALLS TO MATCH EXISTING FOR ANY DEMO WORK.



ELECTRICAL ABBREVIATIONS			
A	DEVICE MOUNTED +8" ABOVE COUNTER TOP (VERIFY LOCATION)	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NM	NONMETALLIC
ATS	AUTOMATIC TRANSFER SWITCH	NTS	NOT TO SCALE
C	CEILING	OC	ON CENTER
CB	CIRCUIT BREAKER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CT	CURRENT TRANSFORMER	OFOI	OWNER FURNISHED, OWNER INSTALLED
E	EXISTING ITEM TO REMAIN	R	EXISTING ITEM TO BE REMOVED
EC	ELECTRICAL CONTRACTOR	RR	EXISTING ITEM TO BE REMOVED AND RELOCATED
EM	EMERGENCY LIGHT FIXTURE	RN	EXISTING ITEM TO BE REMOVED AND REPLACED WITH NEW
ER	NEW LOCATION OF EXISTING ITEM	SCCR	SHORT CIRCUIT CURRENT RATING
F	ROUGH IN FOR FUTURE DEVICE	T	TAMPER PROOF DEVICE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TCC	TEMPERATURE CONTROL CONTRACTOR TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TV	TYPICAL
FSD	FIRE SMOKE DAMPER	UPS	UNINTERRUPTIBLE POWER SUPPLY
G	GROUND FAULT CIRCUIT INTERRUPTER	V	VOLTS
GND	GROUND	VA	VOLT-AMPERES
KVA	KILO-VOLT-AMPERES	V	VOLT-AMPERES
KW	KILOWATTS	WG	WIREGUARD COVER
MC	MECHANICAL CONTRACTOR	WP	WEATHERPROOF DEVICE
MCB	MAIN CIRCUIT BREAKER	WR	WEATHER RESISTANT DEVICE
MDP	MAIN DISTRIBUTION PANEL	+24"	INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR
NLO	MAIN LUGS ONLY		
N	NEW DEVICE IN EXISTING LOCATION		

GENERAL NOTES - ELECTRICAL

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.
- ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING; ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS, EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

INSTALLATION NOTES - ELECTRICAL

- EXISTING PANELS A, B01, AND B05 APPEAR TO BE FULL. NO ADDITIONAL BREAKER SPACES WERE NOTED. FOR NEW CIRCUITS REQUIRED FOR THE PROJECT, THE ELECTRICAL CONTRACTOR WILL NEED TO REVIEW EXISTING AMP DRAW AND TRACE CIRCUIT TO CONSOLIDATE THE LEAST LOADED CIRCUITS. TANDEM CIRCUIT BREAKERS WILL ALSO BE AN ACCEPTABLE INSTALLATION. SEE NOTES ON SHEETS FOR MORE INFORMATION ON LOCATION AND QUANTITY.
- INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- DO NOT INSTALL BOXES BACK-TO-BACK ON OPPOSITE SIDES OF THE SAME WALL. MAINTAIN MINIMUM OF 8" DISTANCE BETWEEN BOXES WHEREVER APPLICABLE.
- BALANCE PANEL LOADS DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED TO ACCOMMODATE.
- PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED DURING PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES. PROVIDE UNIQUE CIRCUIT IDENTIFICATION PER NEC 408.4(A).
- CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.

CODE NOTES - ELECTRICAL

- PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG - AMERICANS WITH DISABILITIES ACT.
- REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
- PER NEC EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE. CONTRACTOR TO PROVIDE FINAL CIRCUIT IDENTIFICATION FOR ALL NEW AND MODIFIED CIRCUITS AT PROJECT COMPLETION.

DEVICE INSTALLATION AND MATERIALS - ELECTRICAL

- PROVIDE NORMAL WIRING DEVICES AS ALUMINUM UNLESS OTHERWISE NOTED.
- PROVIDE DEVICES COVER PLATES AS PLASTIC. MATCH WIRING DEVICES COLOR.
- PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
- INSTALL WALL MOUNTED RECEPTACLES AT +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- INSTALL WALL MOUNTED LIGHT SWITCHES AT +46" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. EXCEPTION: INSTALL DEVICES ABOVE AN OBSTRUCTED HIGH FORWARD REACH OBSTACLE GREATER THEN 20 INCHES IN DEPTH AT +42".
- INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED.
- AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

LIGHTING SYMBOLS

FIRE DETECTION AND ALARM SYMBOLS

FIRE DETECTION AND ALARM RESPONSIBILITY MATRIX

	PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI
SAFETY - FIRE DETECTION AND ALARM:				
ROUGH-IN, PATHWAYS AND SLEEVES				●
INITIATING FIELD DEVICES (SMOKE, MANUAL PULL, MONITOR MODULES)		●		
NOTIFICATION APPLIANCES (HORNS, STROBES, SPEAKERS)		●		
MISCELLANEOUS DEVICES (RELAYS, TEST STATION, ANNUNCIATOR)		●		

GENERAL SYMBOLS

POWER SYMBOLS

SECURITY RESPONSIBILITY MATRIX

	PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI
SECURITY - ACCESS CONTROL:				
ROUGH-IN, PATHWAYS AND SLEEVES				●
SECURITY MANAGEMENT SYSTEM - HEAD END COMPONENTS		●		
SECURITY MANAGEMENT SYSTEM - FIELD DEVICES		●		
SECURITY MANAGEMENT SYSTEM - ELECTRIFIED DOOR HARDWARE				●
SECURITY MANAGEMENT SYSTEM - ALL CABLING		●		

OFOI OWNER FURNISHED & OWNER INSTALLED
 OFCI OWNER FURNISHED & CONTRACTOR INSTALLED
 CFCI CONTRACTOR FURNISHED & CONTRACTOR INSTALLED

GENERAL NOTE:
 A. MATRIX IS NOT INTENDED TO BE EXHAUSTIVE TO COVER ALL MATERIALS NECESSARY FOR SCOPE AND SHOULD ONLY BE USED TO QUICKLY IDENTIFY SYSTEMS AND RELATED INFRASTRUCTURE INSIDE AND OUTSIDE THE BID OF THIS PROJECT. ANY ITEMS FURNISHED OR INSTALLED BY THE BIDDING CONTRACTOR SHALL COVER ALL REQUIRED APPURTENANCES NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT, ACCESSORIES, TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL.

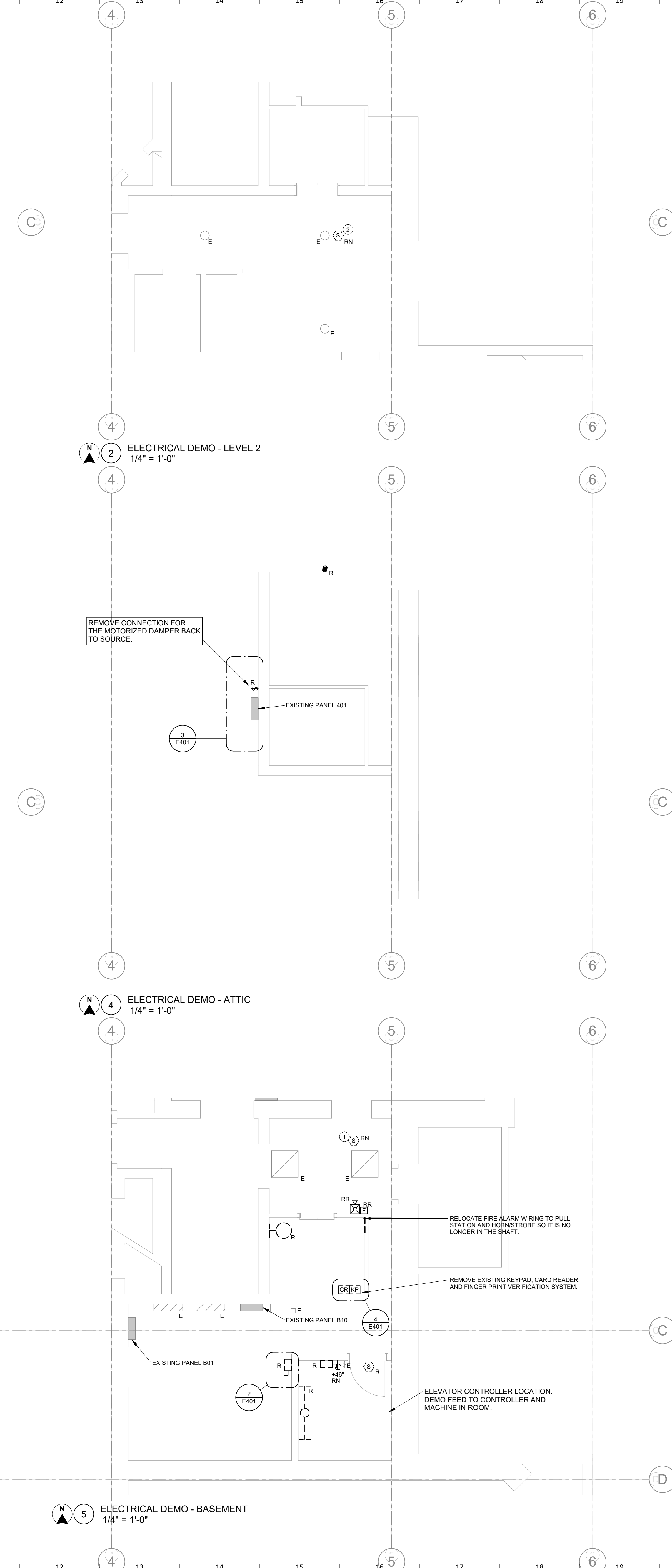
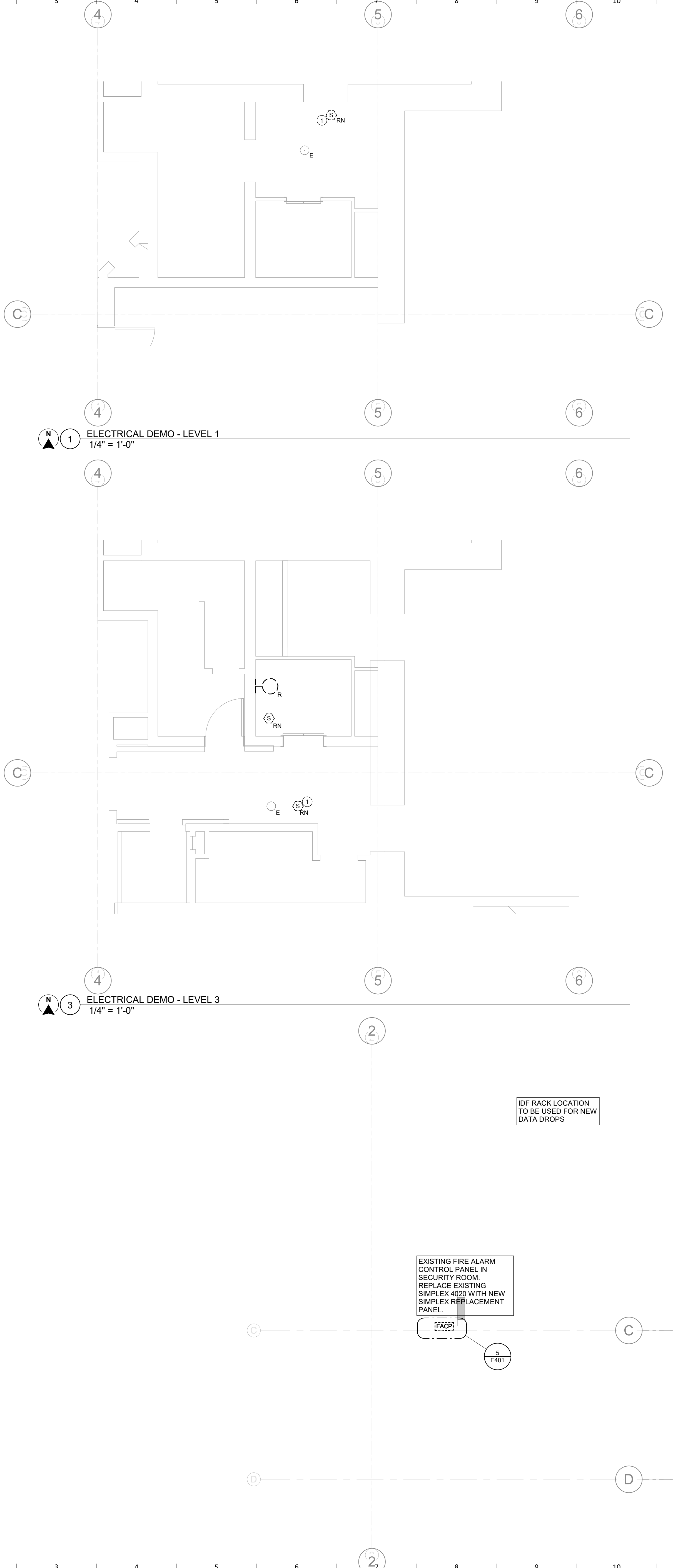
ELECTRICAL DEMOLITION NOTES

- A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. FIELD VERIFY EXISTING CONDITIONS AND BECOME FAMILIAR WITH EXISTING ELECTRICAL SYSTEM AND DEMOLITION SCOPE BEFORE WORK BEGINS.
- B. ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN. HANDLE SUCH ITEMS IN A MANNER SIMILAR TO THOSE ITEMS WHICH ARE SHOWN.
- C. REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK.
 - a. REMOVE ALL CONDUIT, WIRE, BOXES, ETC., AS REQUIRED BY WALL AND CEILING DEMOLITION.
 - b. IDENTIFY THE LOCATION OR ITEMS SERVED FOR ALL DISCONNECTED BRANCH CIRCUITS BEFORE DEMOLITION. MAINTAIN CIRCUITS SERVING AREAS BEYOND THE DEMOLITION AREA.
 - c. REMOVE AND REINSTALL CEILING TILES AS REQUIRED TO REMOVE THE ELECTRICAL FACILITIES NOTED. REPLACE CEILING TILES DAMAGED DURING DEMOLITION.
 - d. KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECESSARY FOR DEMOLITION.
 - e. OBTAIN OWNER'S PERMISSION TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND DEMOLITION AREA. INFORM OWNER AS TO THE REASON FOR AND THE DURATION OF THE SHUTDOWN.
 - f. REPAIR AT CONTRACTORS EXPENSE ANY DAMAGED CONDUIT OR WIRE NOT IDENTIFIED FOR DEMOLITION.
 - g. INSTALL BLANK COVERPLATES/COVERS OVER OPENINGS AT REMOVED DEVICE LOCATIONS.
- D. ALL WIRING FOR REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- E. PROTECT EXISTING DEVICES IDENTIFIED TO REMAIN OR BE RELOCATED. IF AN EXISTING DEVICE CANNOT BE REINSTALLED NOTIFY DESIGN TEAM DURING DEMOLITION. REPLACE FUNCTIONING ITEMS DAMAGED DURING DEMOLITION.
- F. REMOVED/DEMOLISHED EQUIPMENT REMAINS THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. VERIFY OWNERS SALVAGE SELECTIONS AND DISPOSE ALL OTHER MATERIALS.
- G. PLAN ABBREVIATIONS:
 E - EXISTING ITEM TO REMAIN
 ER - NEW LOCATION OF EXISTING ITEM
 N - NEW ITEM IN EXISTING LOCATION
 R - EXISTING ITEM TO BE REMOVED. PATCH AND/OR COVER
 RN - REPLACE EXISTING WITH NEW
 RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

KEYNOTES

- 1 REMOVE EXISTING FIRE ALARM SMOKE DETECTORS AT ELEVATOR LANDING AND REPLACE WITH HEAT DETECTORS DURING CONSTRUCTION.
- 2 REPLACE HEAT DETECTORS FROM CONSTRUCTION WITH NEW FIRE ALARM SMOKE DETECTORS AT COMPLETION OF CONSTRUCTION. PROGRAM DETECTORS FOR ELEVATOR RECALL FUNCTION.

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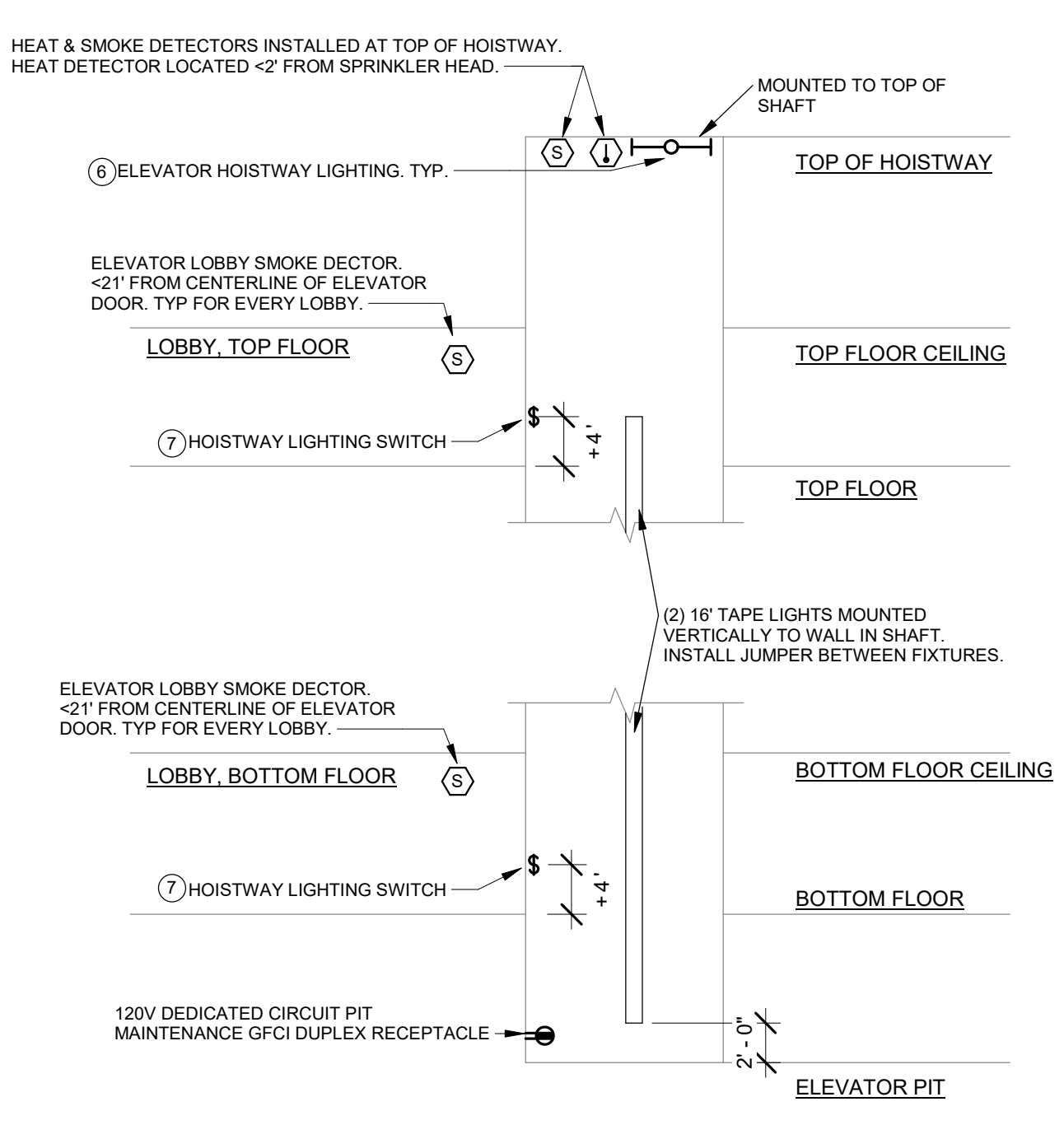


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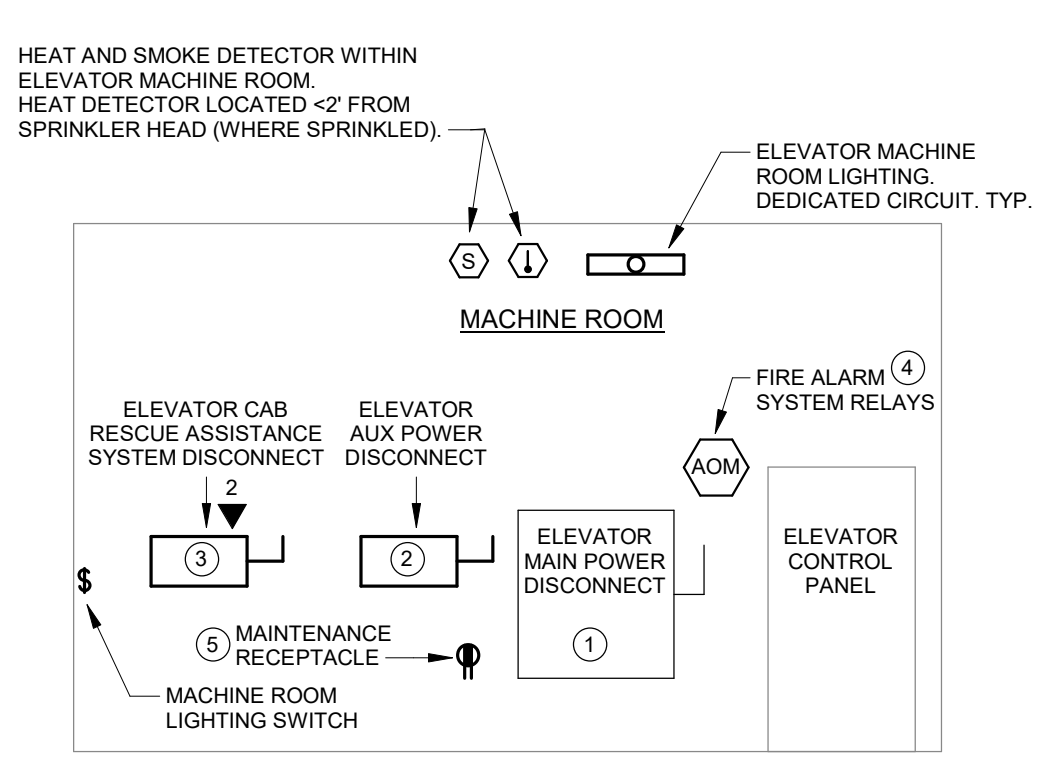
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TYPICAL ELEVATOR HOISTWAY ELEVATION



TYPICAL ELEVATOR MACHINE ROOM

- KEY NOTES:**
- FUSED, LOCKABLE MAIN DISCONNECT SWITCH. PROVIDED WITH NOINC LOW VOLTAGE CONTACTS.
 - FUSED, LOCKABLE 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILIARY LIGHTING/VENTILATION.
 - FUSED, LOCKABLE 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
 - FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.
 - DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITH MACHINE ROOM SPACE ADJACENT TO DISCONNECTS.
 - ELEVATOR HOISTWAY LIGHTING POWERED BY DEDICATED CIRCUIT. FOR EACH CAR, PROVIDE LIGHT FIXTURE AT TOP OF HOISTWAY, PIT, AND AT EACH FLOOR. FIXTURES ABOVE PIT LOCATED TO ILLUMINATE TOP OF CAR AT EACH STOP. TYPICAL 10' ABOVE EACH LEVEL.
 - PROVIDE HOISTWAY LIGHTING CONTROLS THREE WAY SWITCHES AT BOTTOM AND TOP FLOOR HOISTWAY ENTRIES. WHERE MULTIPLE CARS SHARE A COMMON HOISTWAY, PROVIDE 4 WAY SWITCHES AND PROVIDE SWITCH AT EACH CARS BOTTOM AND TOP FLOORS. SWITCH SHALL CONTROLS ALL LIGHTING IN HOISTWAY AND PIT

EQUIPMENT CONNECTION SCHEDULE

ABBREVIATIONS:

1 NEMA 1 ENCLOSURE	INT INTEGRAL WITH EQUIPMENT FROM FACTORY	NOTES:
3R NEMA 3R ENCLOSURE	MMS MANUAL MOTOR STARTER W/ THERMAL...	1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE SPECIFIED MECHANICAL, FIRE PROTECTION, PLUMBING AND BUILDING SYSTEMS. REFERENCE THE ENTIRE PROJECT DOCUMENTS, MANUALS, SCHEDULES, DETAILS, AND NOTES
4 NEMA 4 ENCLOSURE	NFD NON-FUSED DISCONNECT SWITCH, HEAVY DUTY	2. PROVIDE CONNECTIONS AND ACCESSORIES INCLUDING STARTERS, DISCONNECTS, CONTROL WIRING, ETC. AS REQUIRED FOR THE BUILDING EQUIPMENT. INFORMATION HEREIN AND ON THE DRAWINGS IS FOR GENERAL DESCRIPTION AND ESTIMATING PURPOSES ONLY. VERIFY VOLTAGE, AMPERAGE, PHASE, INRUSH, ETC. FOR EACH ITEM OF EQUIPMENT BEFORE PROCEEDING WITH INSTALLATION. INSTALL PER MANUFACTURERS INSTRUCTIONS.
4X NEMA 4X ENCLOSURE	PFS PLUG FUSE WITH INTEGRATED SWITCH	3. REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY.
BO PROVIDED BY OTHERS	RF RETURN AIR DUCT DETECTOR	4. DO NOT RELEASE ELECTRICAL DISTRIBUTION EQUIPMENT UNTIL ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS HAVE BEEN SUBMITTED AND APPROVED. MAKE MINOR ADJUSTMENTS TO BREAKER SIZES, DISCONNECT SIZES, ETC PRIOR TO SUBMITTAL RELEASE.
CB CIRCUIT BREAKER IN PANEL	RSR RUN STATUS DELAY, NORMALLY OPEN	5. INSTALL DISCONNECTS TO ALLOW EQUIPMENT REMOVAL WITHOUT DISCONNECT REMOVAL AND TO MINIMIZE WIRE LENGTH.
CSD COMBINATION STARTER/DISCONNECT	SD SUPPLY AIR DUCT DETECTOR	6. PROVIDE HEAVY DUTY DISCONNECTS RATED FOR THE INSTALLED ENVIRONMENT: NEMA 1 INDOORS, MINIMUM NEMA 3R OUTDOORS.
CP CORD AND PLUG PROVIDED WITH UNIT	SSP START/STOP PUSHBUTTON WITH PILOT	7. VERIFY ALL EQUIPMENT LOCATIONS WITH THE ASSOCIATED SUB-CONTRACTOR.
ECB ENCLOSED CIRCUIT BREAKER	SS START/STOP PUSHBUTTON	8. INCLUDE AUXILIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).
FAR FIRE ALARM SHUTDOWN RELAY	ST SHUNT TRIP	
GF GROUND FAULT CIRCUIT...	TOR TIME DELAY OFF RELAY	
HGA HAND-OFF-AUTO	TS TOGGLE SWITCH	
	VFD VARIABLE FREQUENCY DRIVE	

TAG	ELECTRICAL CHARACTERISTICS		ELECTRICAL CHARACTERISTICS		DISCONNECT			CONTROLS				
	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	STARTER	DESCRIPTION	REMARKS
EF-1	120 V/1				5	INT						

LIGHTING FIXTURE SCHEDULE

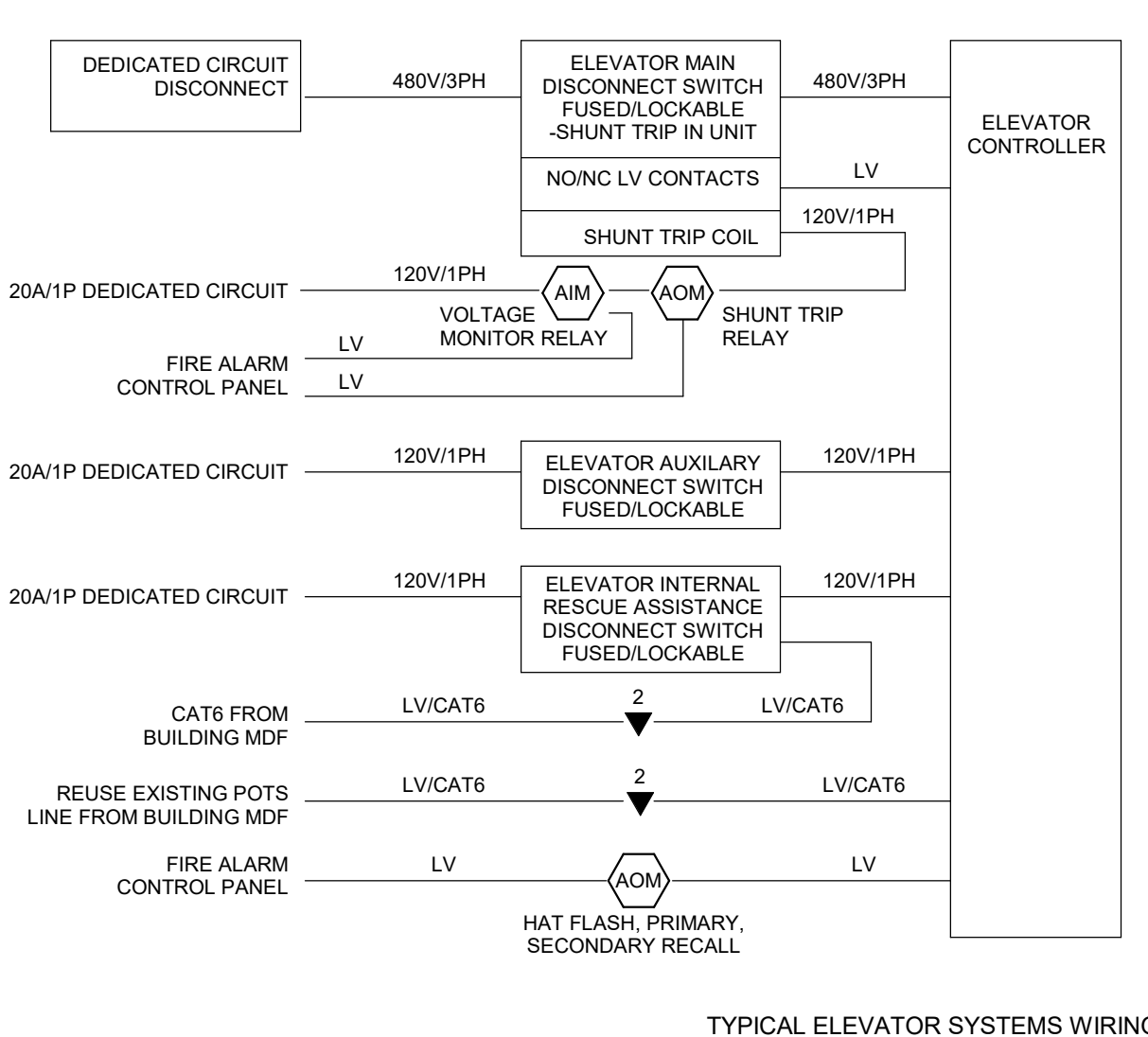
NOTES:

- ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
- INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.
- REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN.
- VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH ARCHITECTURAL CEILING PLAN, MATERIALS, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE...
- CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
- AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT. INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: INITIALS

TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	CRI	DRIVER TYPE	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
E1	HUBBELL	LZ-2-4-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS					LED	277 V	2 VA	SURE-LITES, LIGHTALARMS
F1	LITHONIA	CSV1 L48 5000LM MVOLT 40K 80CRI	UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS	WHITE	4800	80	LED	LED - 4000K	277 V	45 VA	COOPER, CURRENT
F2	OMNI-LIGHT	GENWP-41-HO-16'	(2) 16' LENGTH TAPE LIGHT, IP66+ LISTED, CONTINUOUS RUN, LESS THAN 2" DEPTH TO FIT BEHIND ELEVATOR RAILS. INSTALL 8' JUMPER IN MIDDLE OF SHAFT. INSTALL TAPE CLIPS EVERY 2-3'. PROVIDE WITH APPLICABLE DRIVER AND EXTENSION CABLES. INSTALL DRIVER IN ELEVATOR MACHINE ROOM. 277V COMPATIBLE	WHITE	450/FT	80	LED	LED - 4000K	277 V	160 VA	COOPER, CURRENT

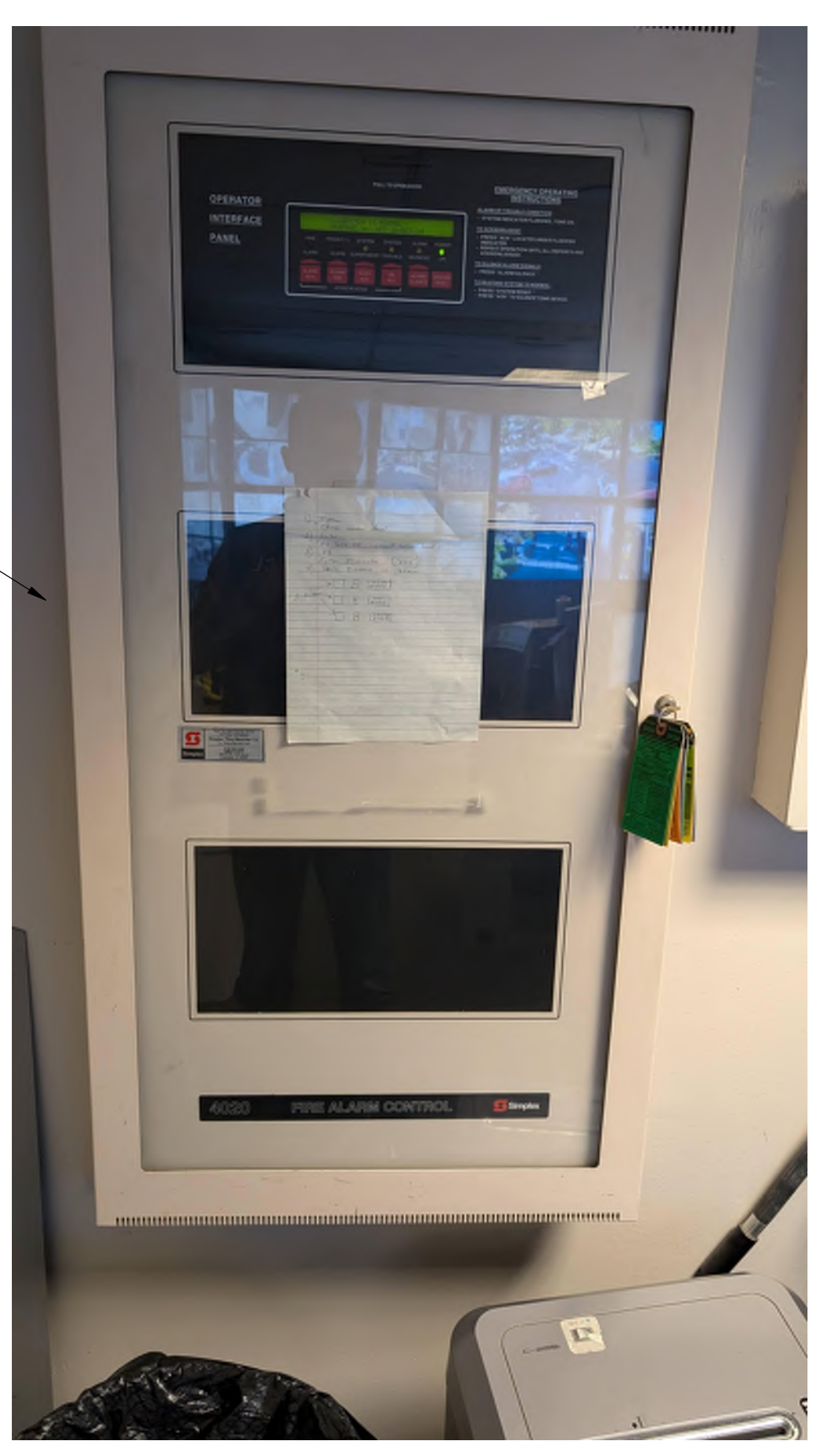
① ELEVATOR SYSTEM DETAIL



TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

⑥ ELEVATOR SYSTEM DETAIL

REPLACE EXISTING SIMPLEX 4020 PANEL WITH NEW. REPLACE EXISTING SYSTEM AND PROGRAM NEW PANEL. TO REUSE EXISTING DEVICES THROUGHOUT BUILDING. FIRE WATCH REQUIRED DURING REPLACEMENT OF PANEL.



REMOVE CARD READER AND FINGERPRINT KEYPAD. COORDINATE TRING, PATHWAYS, AND INSTALLATION OF NEW DEVICE WITH OWNER'S CONTRACTOR.



REMOVE ELEVATOR DISCONNECT. INSTALL REUSE PATHWAY TO DISCONNECT AND INSTALL NEW CONDUIT/CONDUCTORS UP WALL.



ELEVATOR DAMPER DISCONNECT AND CONNECTION REMOVED

