

ENLARGED LOCATION MAP



SHEET INDEX

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E101	MECHANICAL-ELECTRICAL PLAN

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 641-25

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

2025 IOWA STATE ELEVATOR CODE

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 30 - 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.

IBC Chapter 34 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 currently exists, and will be maintained.

NFPA 13 Chapter 8 - Section 8.15.8
 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.

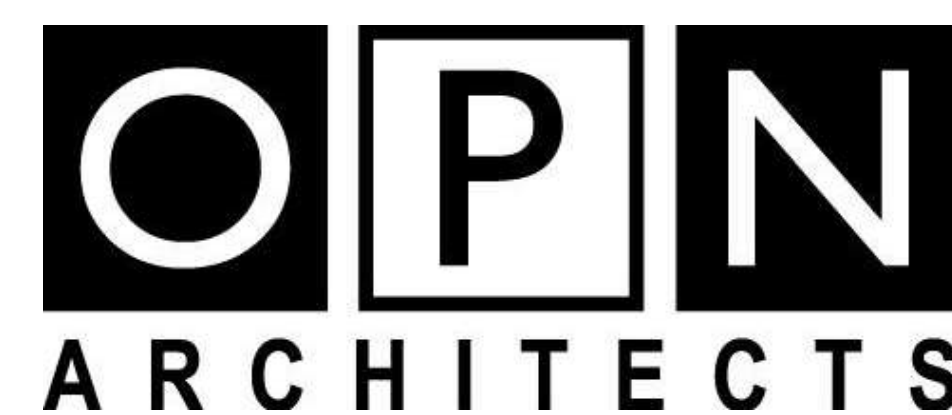
PROJECT LOCATION MAP



CAMP DODGE MAIN ENTRY - VALID ID REQUIRED FOR ENTRY

STATE OF IOWA - 9484.00 - ILEA HYDRAULIC ELEVATOR REPLACEMENT

7105 NW 70TH AVENUE, JOHNSTON, IA 50131



100 Court Ave, Suite 100, Des Moines, IA 50309
 P: 515-309-0722 F: 515-309-0725 www.opnarchitects.com

ARCHITECT

OPN ARCHITECTS
 100 COURT AVENUE
 DES MOINES, IA 50309

CONSTRUCTION MANAGER

DCI GROUP
 220 SE 6th STREET, SUITE 200
 DES MOINES, IA 50309

MECHANICAL ENGINEER

KCL ENGINEERING
 300 4th STREET
 WEST DES MOINES, IA 50317

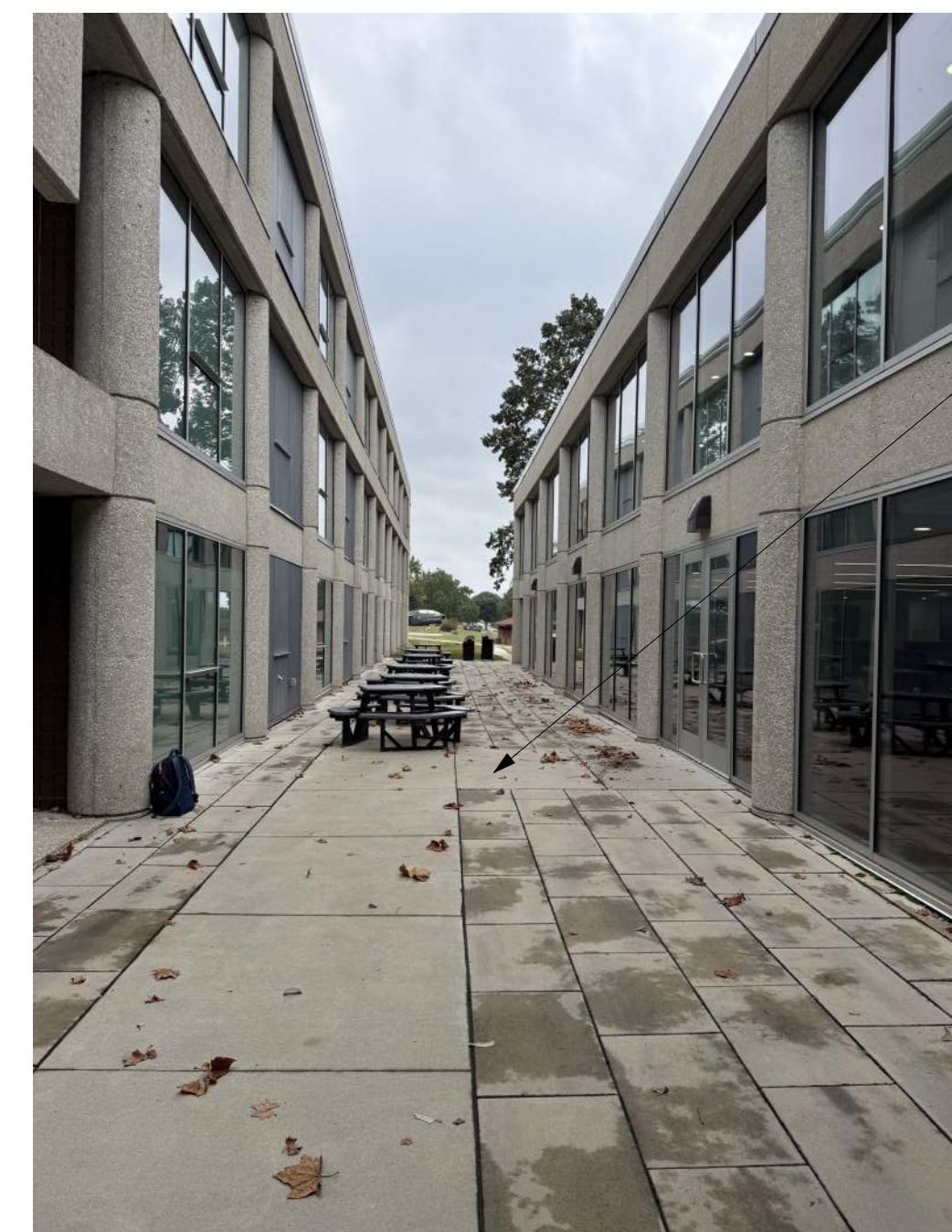
ELECTRICAL ENGINEER

KCL ENGINEERING
 300 4th STREET
 WEST DES MOINES, IA 50317

ELEVATOR CONSULTANT

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

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VIEW OF CENTRAL CORRIDOR WITH ACCESS FROM SOUTH. CONTRACTOR MAY USE THIS AREA FOR ACCESS TO LOWER LEVEL FOR STAGING AND EQUIPMENT ACCESS. NO VEHICLES IS ALLOWED IN AREA, BUT CART TRAFFIC IS ALLOWED. PROVIDE PROTECTION OF PAVERS AS REQUIRED TO PREVENT ANY DAMAGE.

S1 IMAGE S1



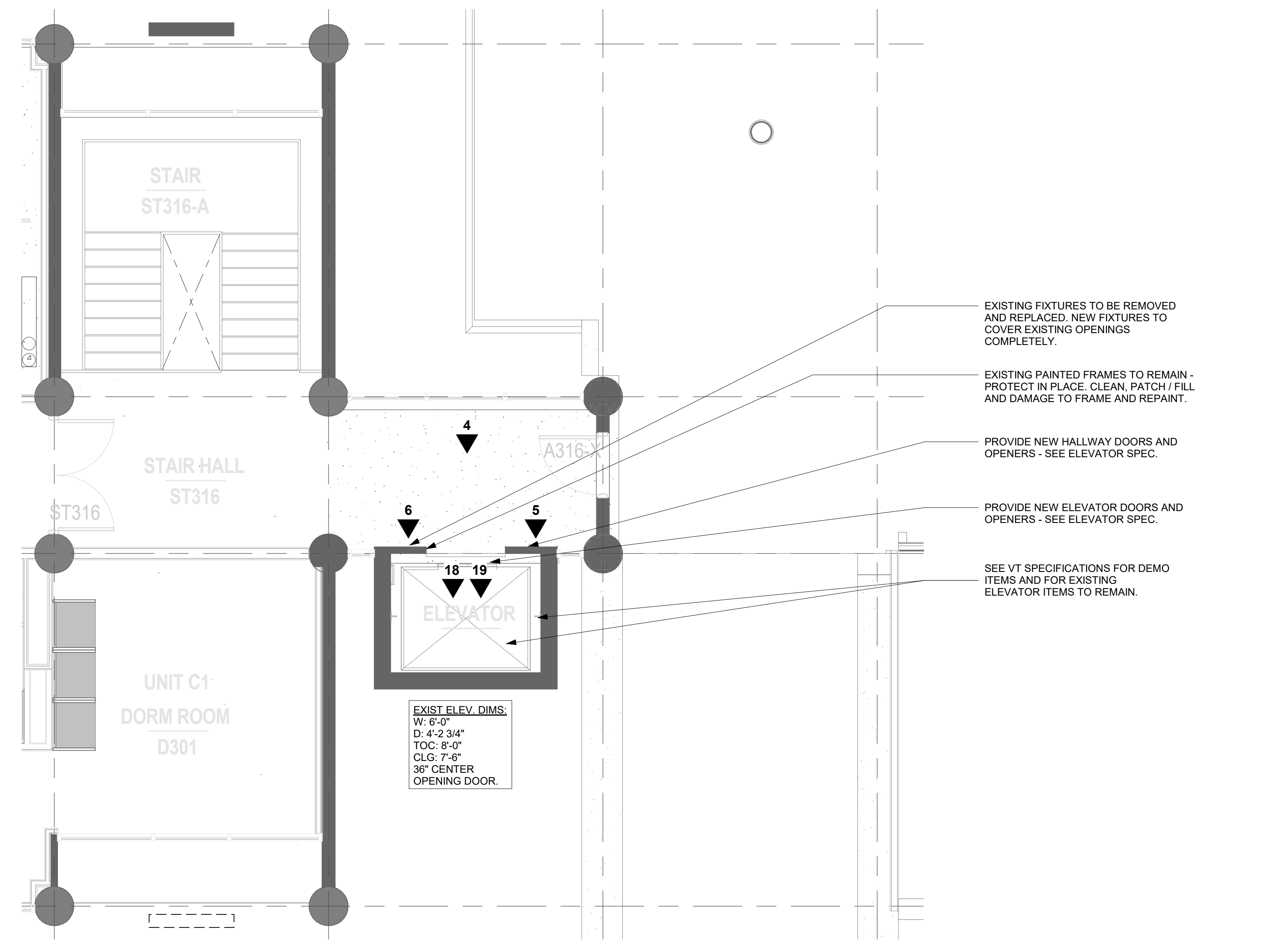
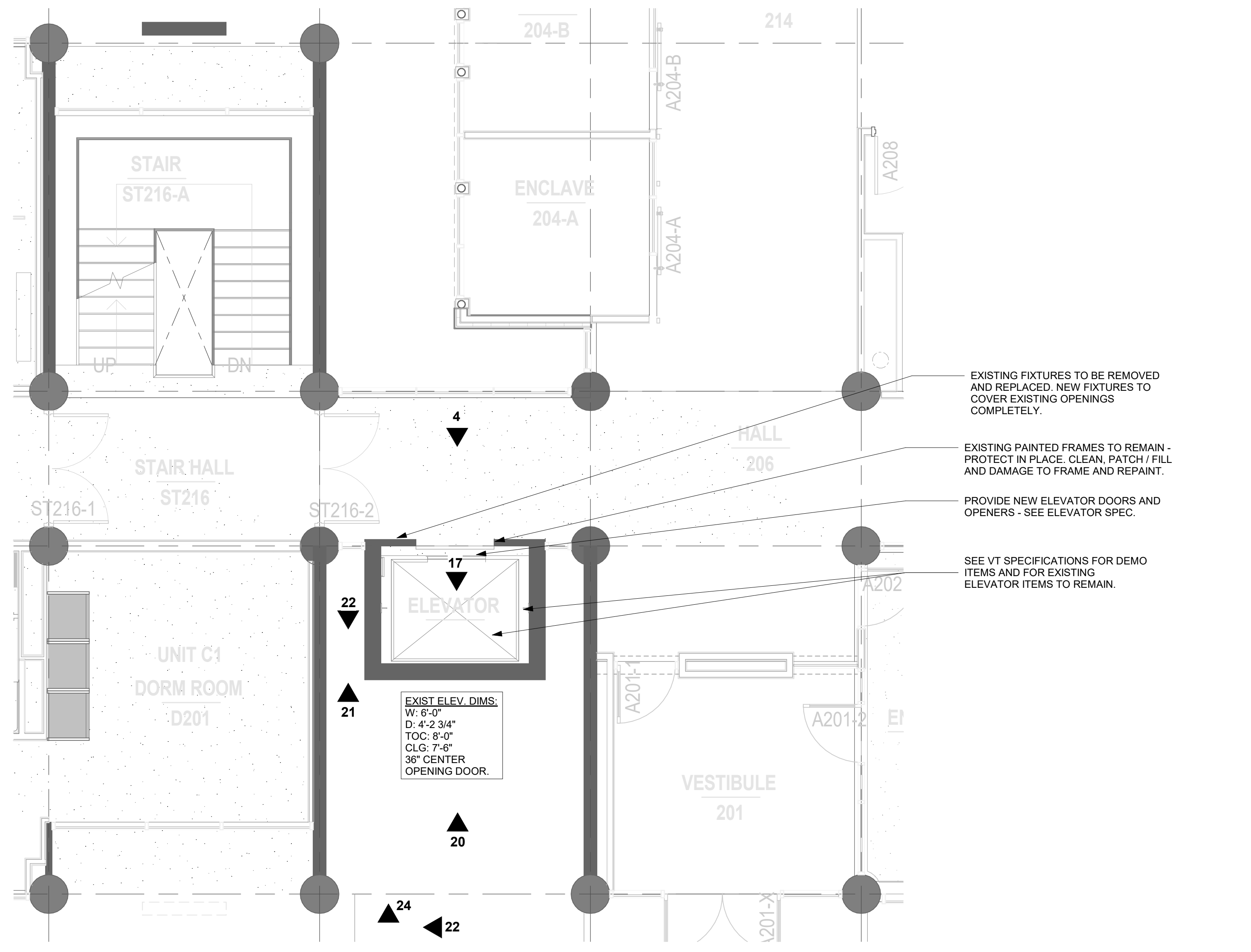
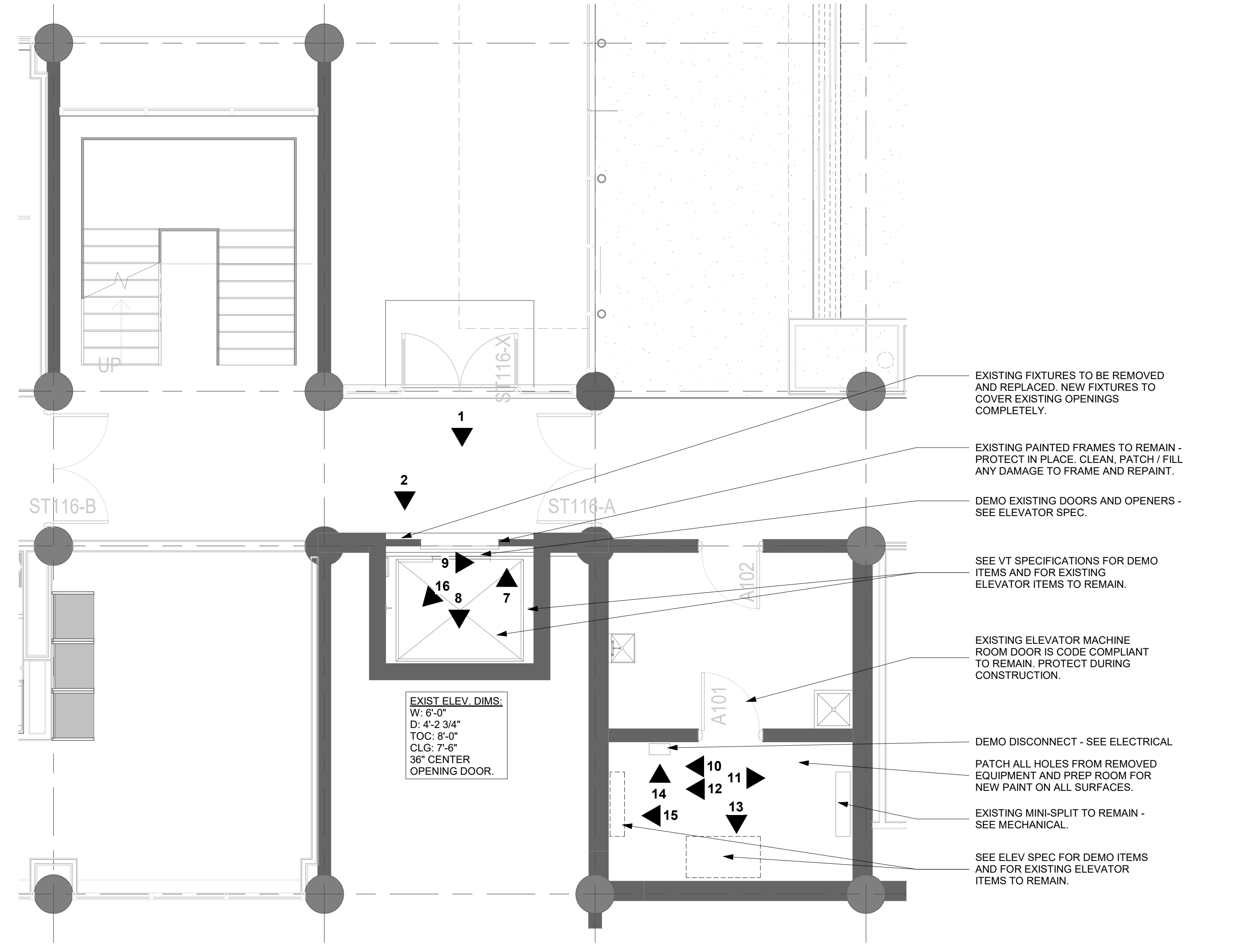
ACCESS TO LOWER LEVEL (ELEVATOR BEYOND).

CONTRACTOR STAGING IS ALLOWED AT THIS EXTERIOR AREA.

CONTRACTOR MAY USE THIS AREA FOR ACCESS TO LOWER LEVEL FOR STAGING AND EQUIPMENT ACCESS. NO VEHICLES ARE ALLOWED IN AREA, BUT CART TRAFFIC IS ALLOWED. PROVIDE PROTECT OF PAVERS AS REQUIRED TO PREVENT ANY DAMAGE.

S2 IMAGE S2
1/8" = 1'-0"

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Key Plan

Revision Description Date

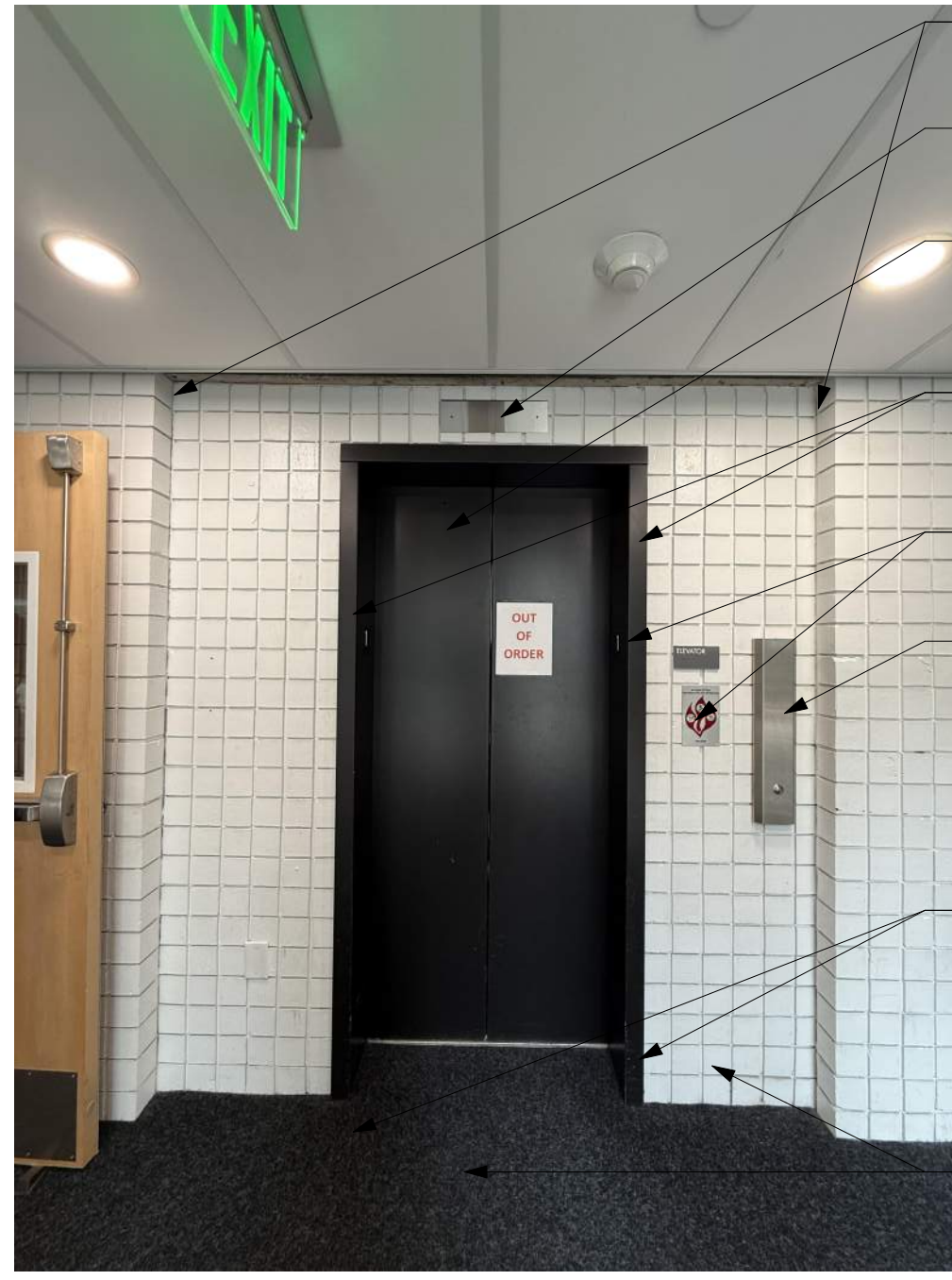
OPN Project No.
25832000

Sheet Issue Date
BID SET 11/21/2025

Sheet Name
DEMO FLOOR PLANS

Sheet Number

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PAINT ENTIRE WALL FROM INSIDE CORNER TO INSIDE CORNER.

REMOVE AND REPLACE COVER WITH PAINT GRADE METAL COVER - PAINT TO MATCH WALL.

PROVIDE NEW PREFINISHED ELEVATOR DOORS AND OPENERS - SEE ELEVATOR SPEC. FINISH TO MATCH EXISTING.

EXISTING PAINTED FRAMES TO REMAIN - PROTECT IN PLACE. CLEAN, PATCH / FILL AND DAMAGE TO FRAME AND REPAINT.

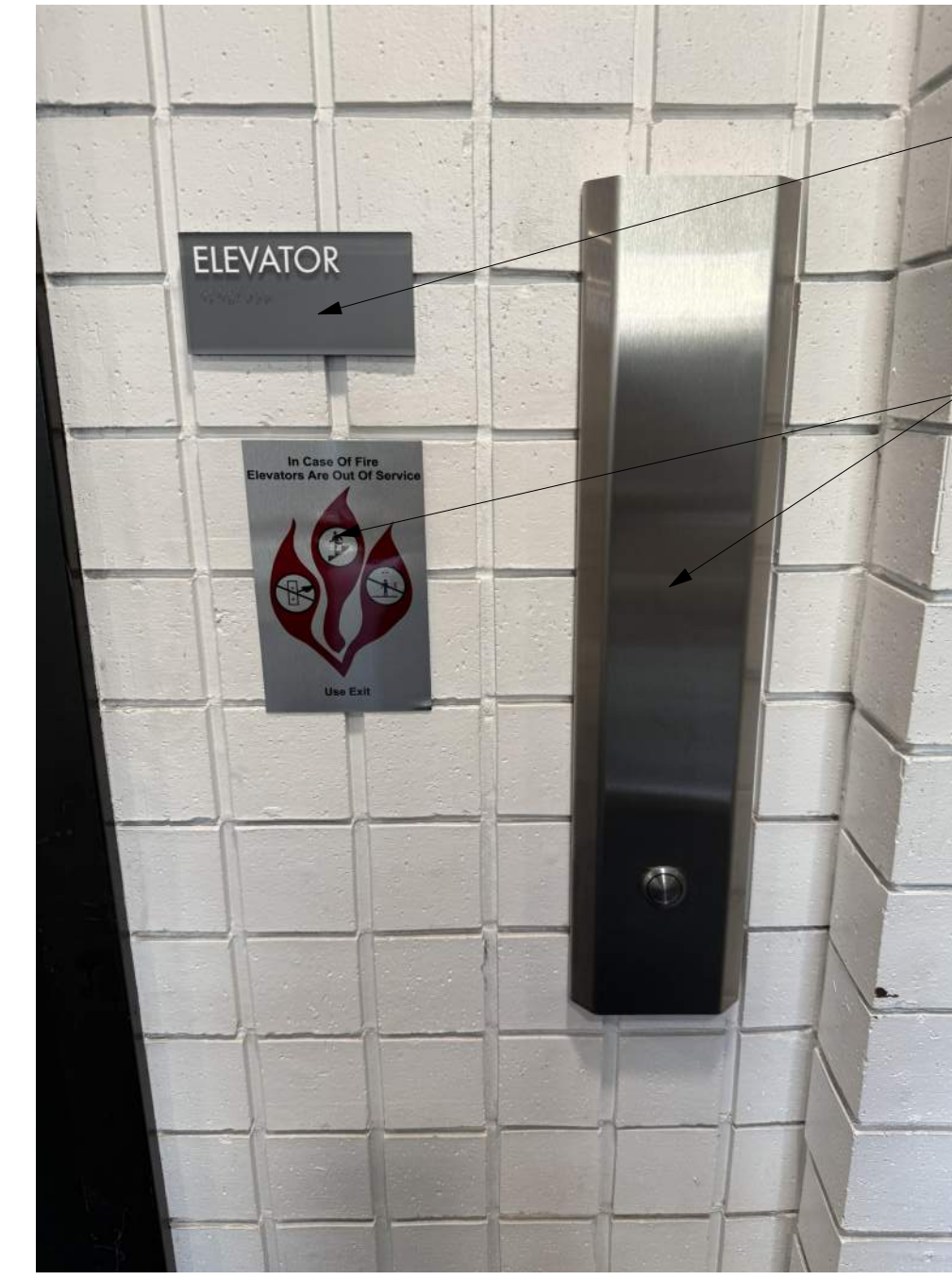
FLOOR SIGNAGE TO BE REMOVED AND REPLACED.

PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS AND MAINTAIN THE EXISTING FINISHES.

PROVIDE NEW ST. STL PLATE AT BASE OF FRAME FOR PROTECTION. PLATE TO BE 12" TALL.

PROTECT ALL EXISTING HALLWAY FINISHES DURING CONSTRUCTION.

1 IMAGE 1



EXISTING SIGNAGE TO REMAIN.

REMOVE AND REPLACE EXISTING SIGNAGE AND CONTROLS. REQUIRED ELEVATOR SIGNAGE TO BE INTEGRAL TO CONTROLS. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE. NEW FIXTURES SHOULD COMPLETELY COVER OLD BOXES / PENETRATIONS.

2 IMAGE 2



PAINT ENTIRE WALL FROM INSIDE CORNER TO INSIDE CORNER.

PROVIDE NEW PREFINISHED ELEVATOR DOORS AND OPENERS - SEE ELEVATOR SPEC. FINISH TO MATCH EXISTING.

EXISTING PAINTED FRAMES TO REMAIN - PROTECT IN PLACE. CLEAN, PATCH / FILL ANY DAMAGE TO FRAME AND REPAINT.

FLOOR SIGNAGE TO BE REMOVED AND REPLACED.

EXISTING FLOOR SIGNAGE TO REMAIN.

PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS AND MAINTAIN THE EXISTING FINISHES.

REMOVE EXISTING ELEVATOR WARNING, INCORPORATE WITH CONTROLLER.

PROVIDE NEW ST. STL PLATE AT BASE OF FRAME FOR PROTECTION. PLATE TO BE 12" TALL.

PROTECT ALL EXISTING HALLWAY FINISHES DURING CONSTRUCTION.

3 IMAGE 3



PAINT ENTIRE WALL FROM INSIDE CORNER TO INSIDE CORNER.

PROVIDE NEW PREFINISHED ELEVATOR DOORS AND OPENERS - SEE ELEVATOR SPEC. FINISH TO MATCH EXISTING.

EXISTING PAINTED FRAMES TO REMAIN - PROTECT IN PLACE. CLEAN, PATCH / FILL ANY DAMAGE TO FRAME AND REPAINT.

FLOOR SIGNAGE TO BE REMOVED AND REPLACED.

EXISTING FLOOR SIGNAGE TO REMAIN.

PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS AND MAINTAIN THE EXISTING FINISHES.

REMOVE EXISTING ELEVATOR WARNING, INCORPORATE WITH CONTROLLER.

PROVIDE NEW ST. STL PLATE AT BASE OF FRAME FOR PROTECTION. PLATE TO BE 12" TALL.

PROTECT ALL EXISTING HALLWAY FINISHES DURING CONSTRUCTION.

4 IMAGE 4



EXISTING EMERGENCY COMMUNICATION DEVICE TO BE REPAIRED BY OWNER UNDER SEPARATE CONTRACT - NO WORK.

5 IMAGE 5



EXISTING SIGNAGE TO REMAIN.

REMOVE AND REPLACE EXISTING SIGNAGE AND CONTROLS. REQUIRED ELEVATOR SIGNAGE TO BE INTEGRAL TO CONTROLS. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE.

6 IMAGE 6

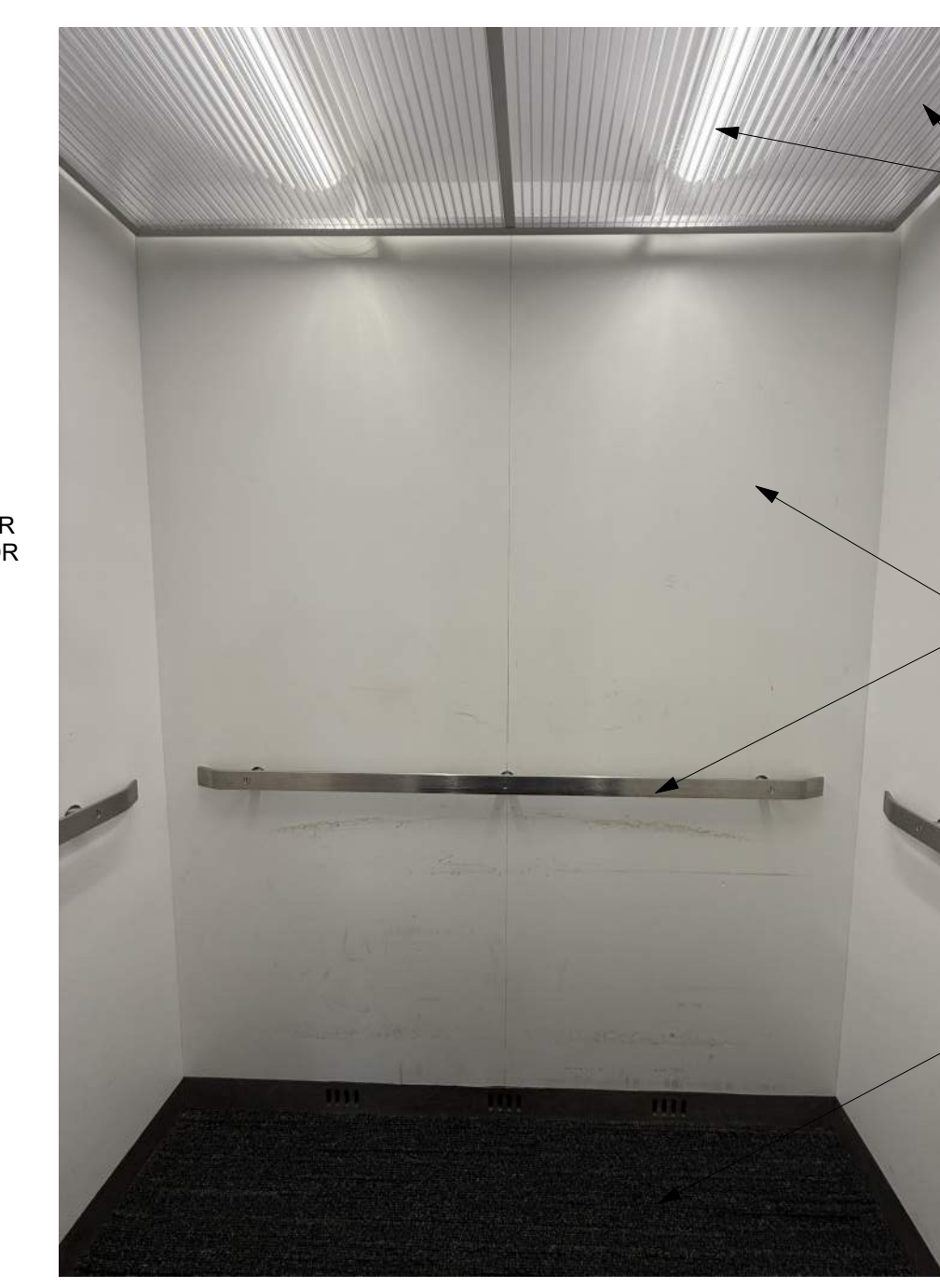


ALL EXISTING FINISHES TO BE REPLACED IN ELEVATOR. SEE ELEVATOR SPEC AND DRAWINGS FOR NEW FINISHES.

REMOVE AND REPLACE EXISTING ELEVATOR CONTROL PANEL - SEE ELEVATOR SPEC FOR SPECIFIC REQUIREMENTS.

ALL EXISTING FINISHES TO BE REPLACED IN ELEVATOR. SEE ELEVATOR SPEC AND DRAWINGS FOR NEW FINISHES.

7 IMAGE 7



REMOVE AND REPLACE EXISTING ELEVATOR CEILING AND LIGHTING - SEE ELEVATOR SPEC AND DRAWINGS FOR SPECIFIC REQUIREMENTS.

REMOVE AND REPLACE EXISTING ELEVATOR FINISHES - SEE ELEVATOR SPEC AND DRAWINGS FOR SPECIFIC REQUIREMENTS.

REMOVE AND REPLACE EXISTING ELEVATOR FLOORING - SEE ELEVATOR SPEC AND DRAWINGS FOR MATERIALS.

8 IMAGE 8



ALL EXISTING FINISHES TO BE REPLACED IN ELEVATOR. SEE ELEVATOR SPEC AND DRAWINGS FOR NEW FINISHES.

PROVIDE NEW ELEVATOR DOORS AND OPENERS - SEE ELEVATOR SPEC.

9 IMAGE 9



EXISTING DETECTION TO REMAIN - SEE ELECTRICAL. CONTRACTOR TO SWAP TO HEAT HEAD DURING CONSTRUCTION.

EXISTING CEILING LIGHTING TO REMAIN.

PATCH ANY HOLES FROM REMOVED EQUIPMENT AND PAINT ENTIRE ROOM.

EXISTING DISCONNECT TO BE REPLACED - SEE ELECTRICAL.

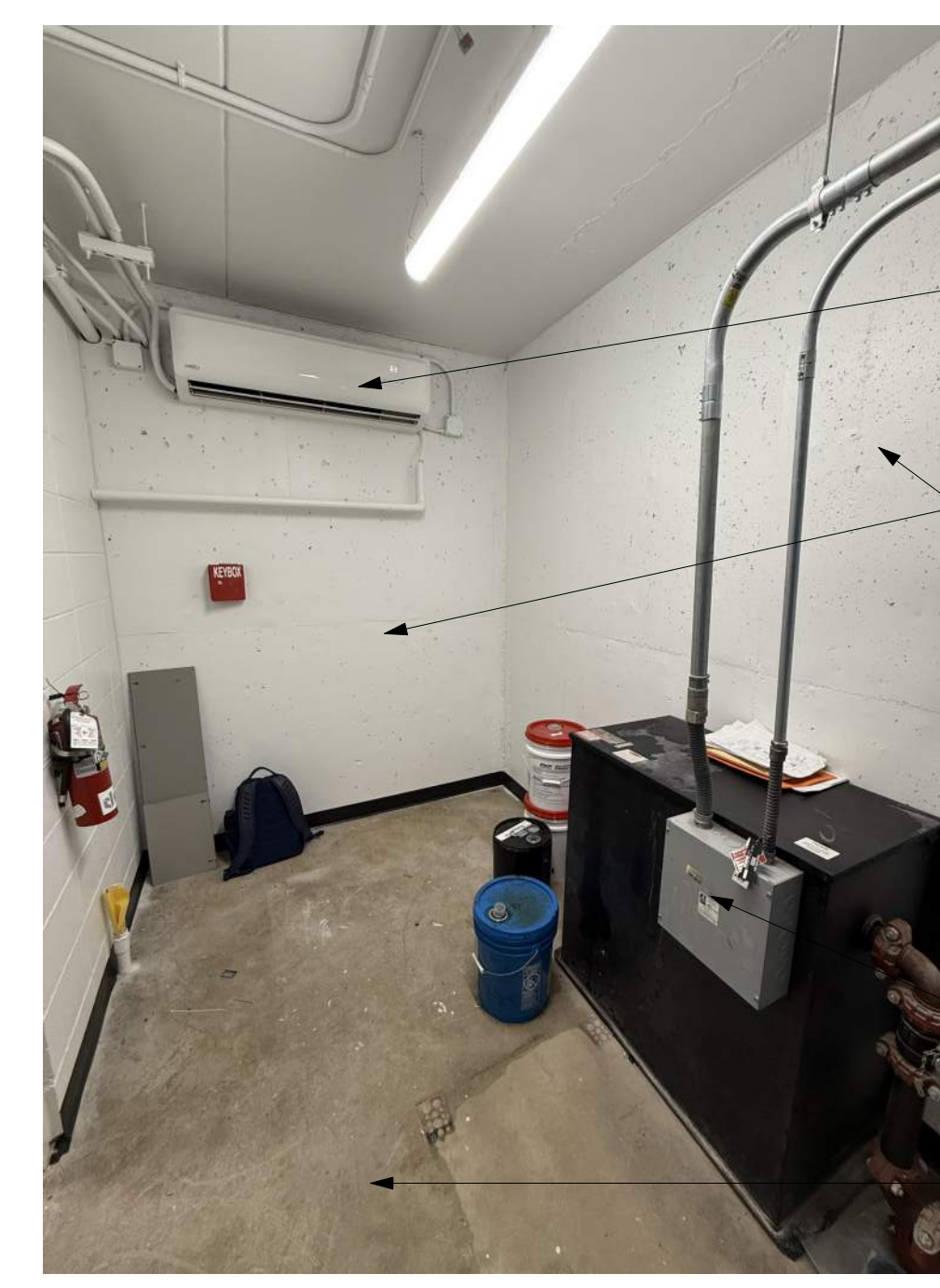
EXISTING HEAT TRACE CONTROLS TO REMAIN. SEE ELECTRICAL FOR ADDITIONAL WORK.

REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE ELEVATOR SPEC FOR SPECIFIC REQUIREMENTS.

REMOVE AND REPLACE EXISTING ELEVATOR HYDRO TANK - SEE ELEVATOR SPEC FOR SPECIFIC REQUIREMENTS.

PREP EXISTING FLOOR AS REQUIRED FOR NEW FINISH - SEE SPECS.

10 IMAGE 10



EXISTING MINI-SPLIT TO REMAIN - SEE MECHANICAL.

ALL WALLS AND CEILINGS TO BE RE-PAINTED. PATCH ALL HOLES FROM REMOVED EQUIPMENT AND PREP ROOM FOR NEW PAINT ON ALL SURFACES.

REMOVE AND REPLACE EXISTING ELEVATOR HYDRO TANK - SEE ELEVATOR SPEC FOR SPECIFIC REQUIREMENTS.

PREP EXISTING FLOOR AS REQUIRED FOR NEW PAINT FINISH - SEE SPECS.

11 IMAGE 11



ALL WALLS AND CEILINGS TO BE RE-PAINTED. PATCH ALL HOLES FROM REMOVED EQUIPMENT AND PREP ROOM FOR NEW PAINT ON ALL SURFACES.

REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE ELEVATOR SPEC FOR SPECIFIC REQUIREMENTS.

EXISTING SUB-SURFACE HYDRAULIC OIL LINE TO BE MAINTAINED AND REUSED. REPLACE ALL PIPING ABOVE SLAB.

12 IMAGE 12

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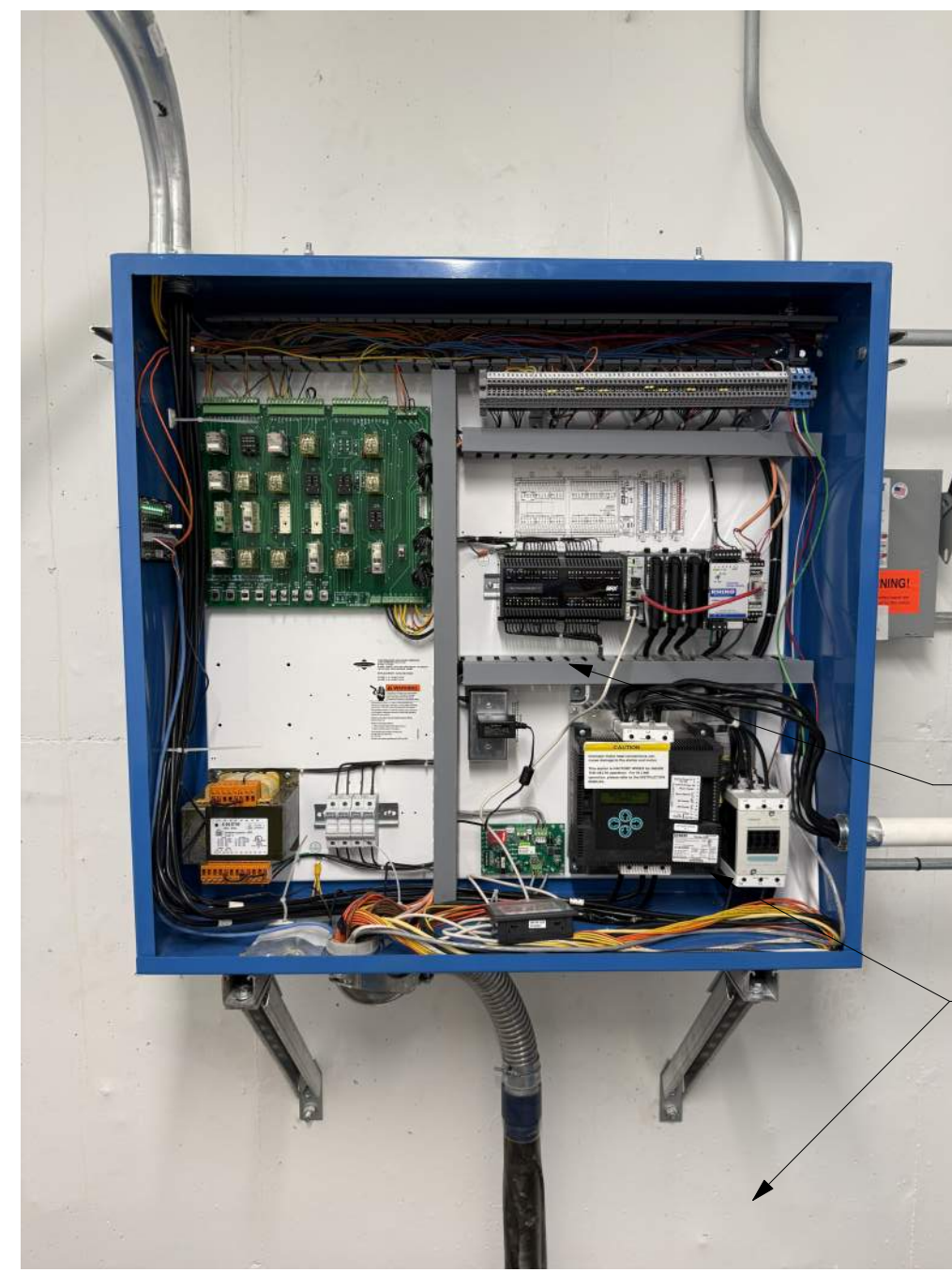
REMOVE AND REPLACE EXISTING ELEVATOR HYDRO TANK - SEE ELEVATOR SPEC FOR SPECIFIC REQUIREMENTS.
PREP EXISTING FLOOR AS REQUIRED FOR NEW PAINT FINISH - SEE SPECS.

13 IMAGE 13



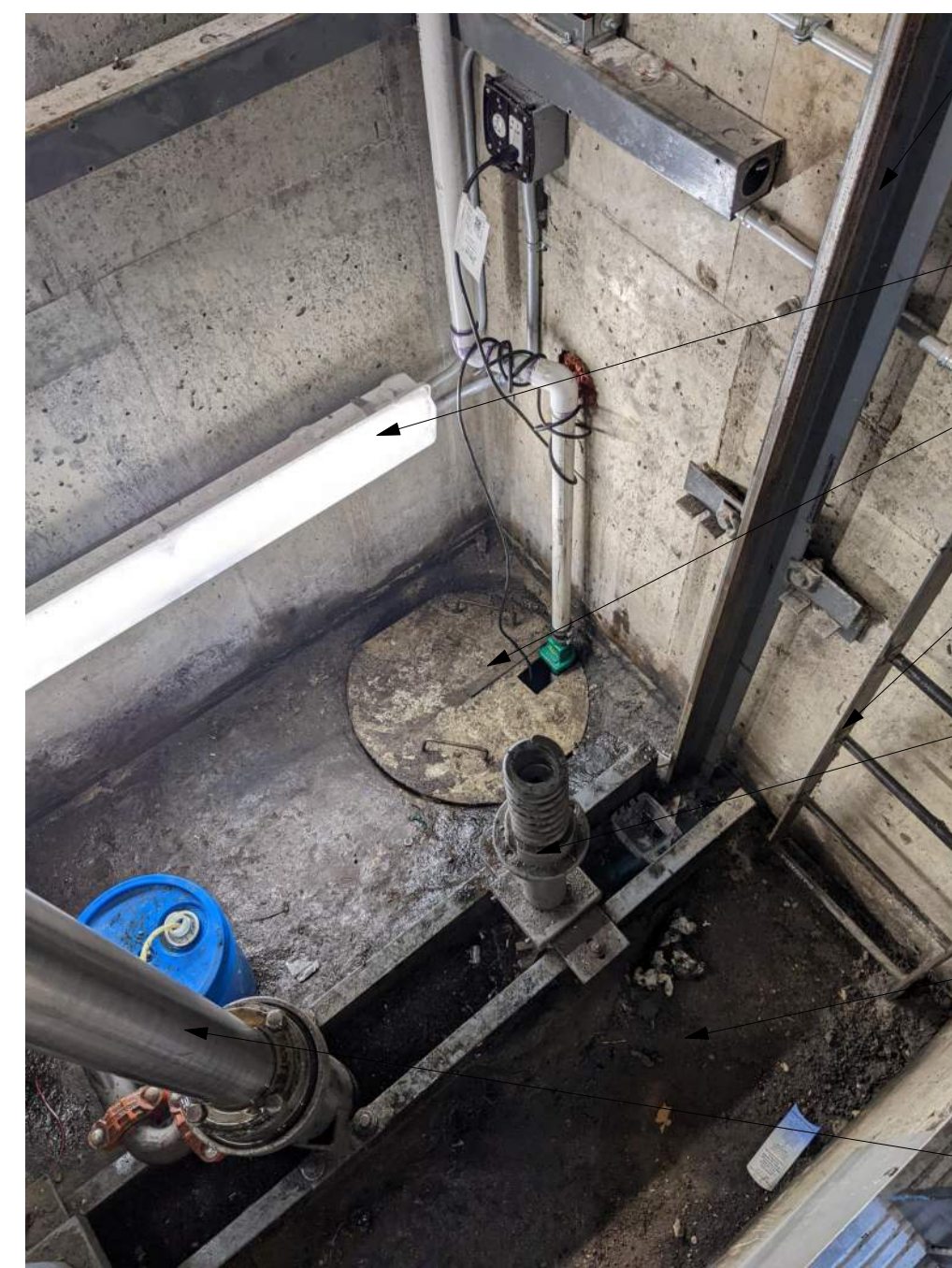
EXISTING RELAYS TO REMAIN - SEE ELECTRICAL.
EXISTING DISCONNECT TO REMOVED AND REPLACED - SEE ELECTRICAL.
ALL WALLS AND CEILINGS TO BE RE-PAINTED. PATCH ALL HOLES FROM REMOVED EQUIPMENT AND PREP ROOM FOR NEW PAINT ON ALL SURFACES.
EXISTING HEAT TRACE CONTROLS TO REMAIN. SEE ELECTRICAL FOR ADDITIONAL WORK.
PATCH ANY HOLES FROM REMOVED EQUIPMENT AND PAINT ENTIRE ROOM.

14 IMAGE 14



REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE ELEVATOR SPEC FOR SPECIFIC REQUIREMENTS.
ALL WALLS AND CEILINGS TO BE RE-PAINTED. PATCH ALL HOLES FROM REMOVED EQUIPMENT AND PREP ROOM FOR NEW PAINT ON ALL SURFACES.

15 IMAGE 15



EXISTING SHAFT AND RAILS TO REMAIN - SEE ELEVATOR SPEC FOR ELEVATOR REQUIREMENTS.
EXISTING SHAFT LIGHTING TO REMAIN - SEE ELECTRICAL.
EXISTING SUMP AND DISCHARGE TO REMAIN. PROVIDE NEW SUMP PUMP ON DEDICATED CIRCUIT WITH WATER AND OIL DETECTION - SEE MECHANICAL / ELECTRICAL.
EXISTING ELEVATOR PIT LADDER TO REMAIN.
REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE ELEVATOR SPEC FOR SPECIFIC REQUIREMENTS.
PIT FLOOR TO BE CLEANED AND PREPPED FOR NEW PAINT FINISH - SEE ELEVATOR SPEC.
REMOVE AND REPLACE EXISTING ELEVATOR JACK - SEE ELEVATOR SPEC FOR SPECIFIC REQUIREMENTS.

16 IMAGE 16



EXISTING ELEVATOR LIGHTING TO REMAIN.
EXISTING SPRINKLER LINE TO REMAIN. PROTECT IN PLACE.
REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE ELEVATOR SPEC FOR SPECIFIC REQUIREMENTS.
EXISTING SUMP DISCHARGE TO REMAIN. PROTECT IN PLACE.

17 IMAGE 17



EXISTING SHAFT AND RAILS TO REMAIN - SEE ELEVATOR SPEC FOR ELEVATOR REQUIREMENTS.
PROVIDE NEW ELEVATOR DOORS AND OPENERS - SEE ELEVATOR SPEC.
EXISTING INFILL AT TOP OF SHAFT TO REMAIN - NO WORK.
EXISTING DETECTION - SEE ELECTRICAL CONTRACTOR TO SWAP TO HEAT HEAD DURING CONSTRUCTION.
EXISTING ELEVATOR LIGHTING TO REMAIN.

18 IMAGE 18



EXISTING SHAFT AND RAILS TO REMAIN - SEE ELEVATOR SPEC FOR ELEVATOR REQUIREMENTS.
EXISTING ELEVATOR LIGHTING TO REMAIN.
EXISTING DETECTION - SEE ELECTRICAL CONTRACTOR TO SWAP TO HEAT HEAD DURING CONSTRUCTION.
EXISTING INFILL AT TOP OF SHAFT TO REMAIN - NO WORK.

19 IMAGE 19



VIEW OF EXISTING ELEVATOR SHAFT.
EXISTING ELEVATOR SUMP DISCHARGE LOCATION.

20 IMAGE 20



EXISTING ELEVATOR SUMP DISCHARGE LOCATION.

21 IMAGE 21



EXISTING ELEVATOR SUMP DISCHARGE LOCATION.

22 IMAGE 22



DISTURBED AREA TO BE REMEDIATED BY OWNER - NO WORK.
EXISTING ELEVATOR SUMP EXIT DISCHARGE LOCATION. CONTRACTOR TO CLEAN SUMP LINE AND VERIFY SUMP OPERATION AND THAT DISCHARGE LINE IS CLEAN FROM ANY CONTAMINANTS.

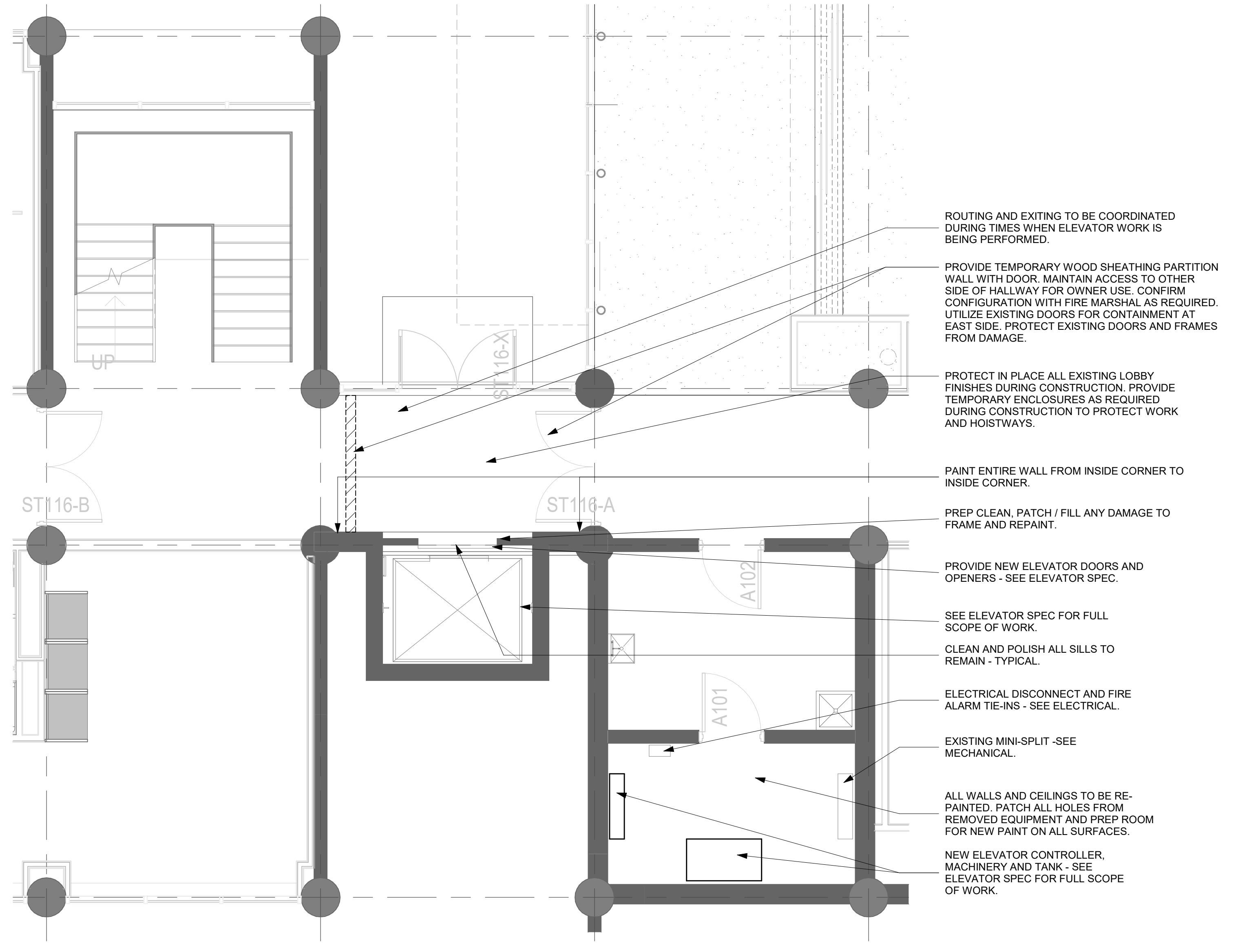
23 IMAGE 23



DISTURBED AREA TO BE REMEDIATED BY OWNER - NO WORK.
EXISTING ELEVATOR SUMP EXIT DISCHARGE LOCATION. CONTRACTOR TO CLEAN SUMP LINE AND VERIFY SUMP OPERATION AND THAT DISCHARGE LINE IS CLEAN FROM ANY CONTAMINANTS.

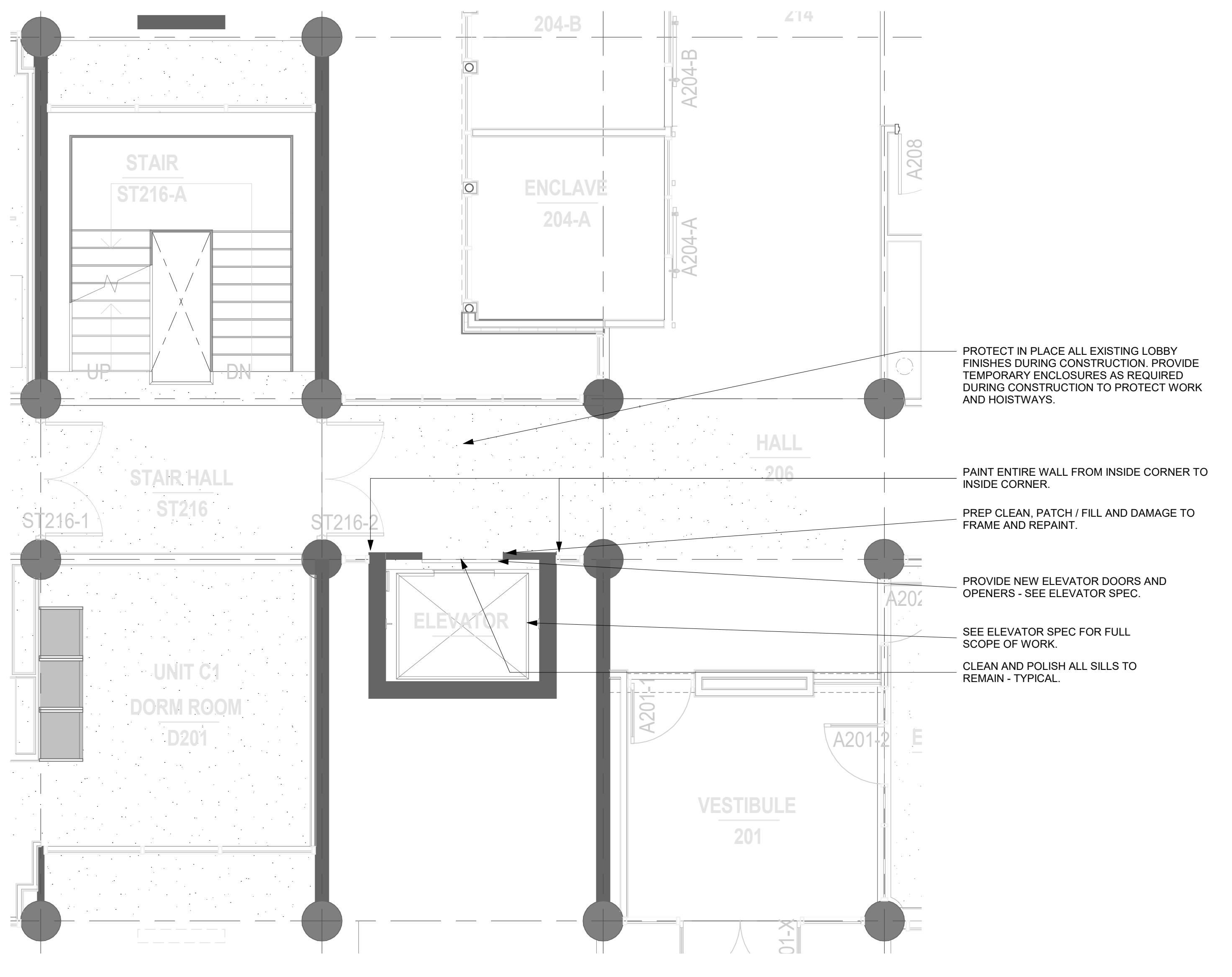
24 IMAGE 24

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



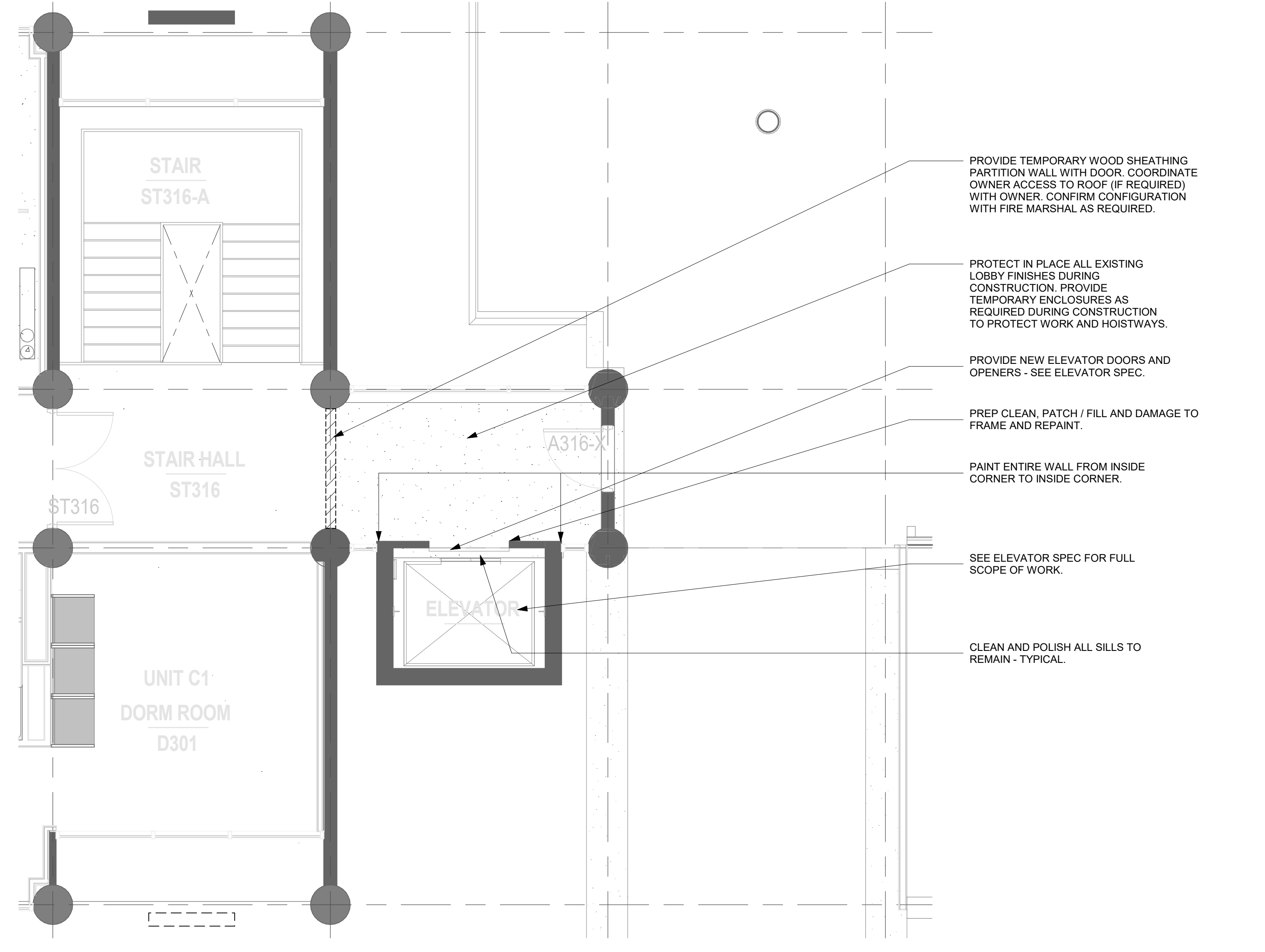
P2 GROUND FLOOR PLAN
 1/4" = 1'-0"

- ROUTING AND EXITING TO BE COORDINATED DURING TIMES WHEN ELEVATOR WORK IS BEING PERFORMED.
- PROVIDE TEMPORARY WOOD SHEATHING PARTITION WALL WITH DOOR. MAINTAIN ACCESS TO OTHER SIDE OF HALLWAY FOR OWNER USE. CONFIRM CONFIGURATION WITH FIRE MARSHAL AS REQUIRED. UTILIZE EXISTING DOORS FOR CONTAINMENT AT EAST SIDE. PROTECT EXISTING DOORS AND FRAMES FROM DAMAGE.
- PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.
- PAINT ENTIRE WALL FROM INSIDE CORNER TO INSIDE CORNER.
- PREP CLEAN, PATCH / FILL ANY DAMAGE TO FRAME AND REPAINT.
- PROVIDE NEW ELEVATOR DOORS AND OPENERS - SEE ELEVATOR SPEC.
- SEE ELEVATOR SPEC FOR FULL SCOPE OF WORK.
- CLEAN AND POLISH ALL SILLS TO REMAIN - TYPICAL.
- ELECTRICAL DISCONNECT AND FIRE ALARM TIE-INS - SEE ELECTRICAL.
- EXISTING MINI-SPLIT-SEE MECHANICAL.
- ALL WALLS AND CEILINGS TO BE RE-PAINTED. PATCH ALL HOLES FROM REMOVED EQUIPMENT AND PREP ROOM FOR NEW PAINT ON ALL SURFACES.
- NEW ELEVATOR CONTROLLER, MACHINERY AND TANK - SEE ELEVATOR SPEC FOR FULL SCOPE OF WORK.



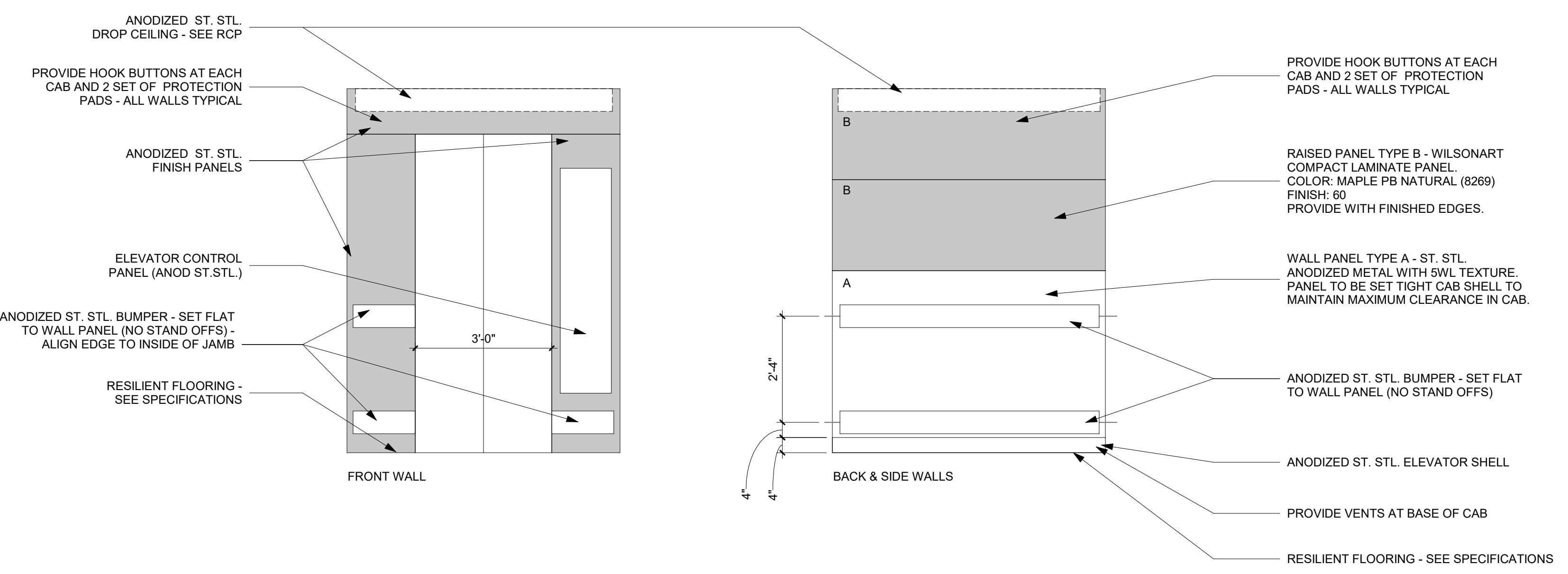
H2 FIRST FLOOR PLAN
 1/4" = 1'-0"

- PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.
- PAINT ENTIRE WALL FROM INSIDE CORNER TO INSIDE CORNER.
- PREP CLEAN, PATCH / FILL AND DAMAGE TO FRAME AND REPAINT.
- PROVIDE NEW ELEVATOR DOORS AND OPENERS - SEE ELEVATOR SPEC.
- SEE ELEVATOR SPEC FOR FULL SCOPE OF WORK.
- CLEAN AND POLISH ALL SILLS TO REMAIN - TYPICAL.

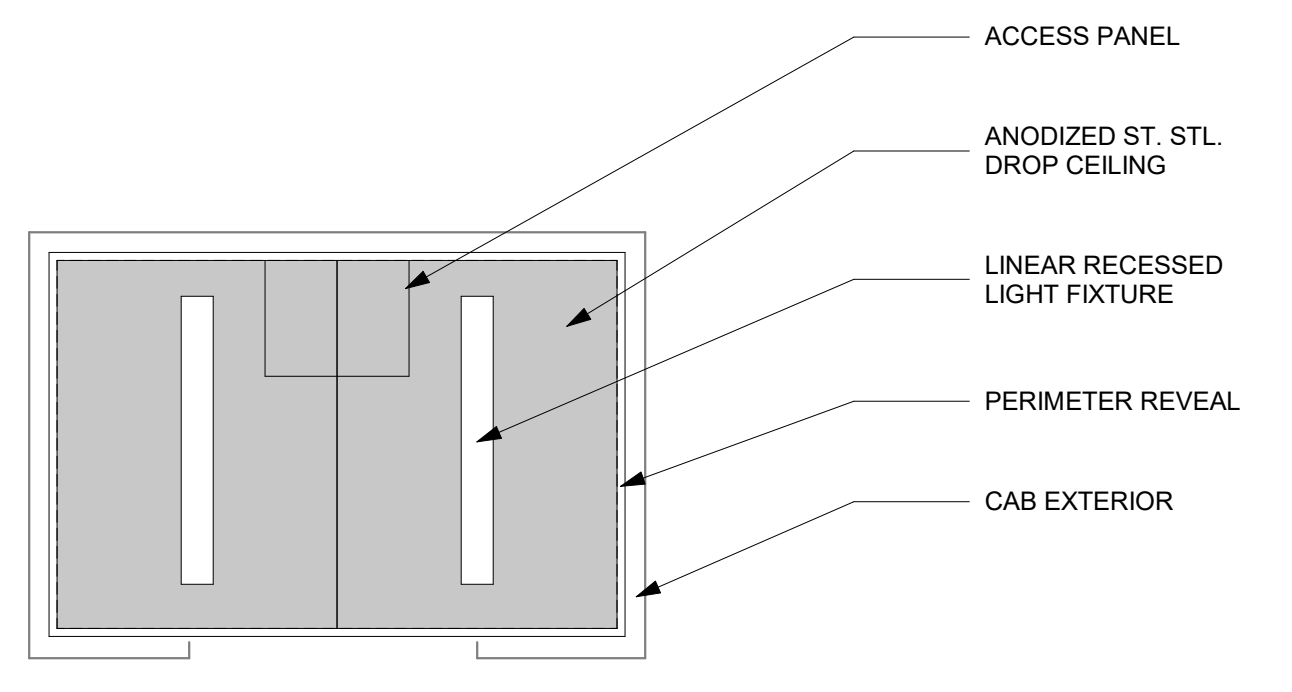


A2 SECOND FLOOR PLAN
 1/4" = 1'-0"

- PROVIDE TEMPORARY WOOD SHEATHING PARTITION WALL WITH DOOR. COORDINATE OWNER ACCESS TO ROOF (IF REQUIRED) WITH OWNER. CONFIRM CONFIGURATION WITH FIRE MARSHAL AS REQUIRED.
- PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.
- PROVIDE NEW ELEVATOR DOORS AND OPENERS - SEE ELEVATOR SPEC.
- PREP CLEAN, PATCH / FILL AND DAMAGE TO FRAME AND REPAINT.
- PAINT ENTIRE WALL FROM INSIDE CORNER TO INSIDE CORNER.
- SEE ELEVATOR SPEC FOR FULL SCOPE OF WORK.
- CLEAN AND POLISH ALL SILLS TO REMAIN - TYPICAL.



1 ELEVATOR ELEVATIONS
 1/2" = 1'-0"



2 ELEVATOR REFLECTED CEILING
 1/2" = 1'-0"

- ACCESS PANEL
- ANODIZED ST. STL. DROP CEILING
- LINEAR RECESSED LIGHT FIXTURE
- PERIMETER REVEAL
- CAB EXTERIOR

Key Plan

Revision	Description	Date

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

FIRE DETECTION AND ALARM SYMBOLS	
	MANUAL FIRE ALARM PULL STATION
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL - EMERGENCY COMMUNICATIONS PANEL
	CARBON MONOXIDE DETECTOR
	COMBINATION CARBON MONOXIDE / SMOKE DETECTOR
	HEAT DETECTOR
	SMOKE DETECTOR
	SMOKE DETECTOR WITH 520HZ SOUNDER BASE
	DUCT SMOKE DETECTOR
	HORN
	COMBINATION HORN WITH STROBE
	COMBINATION SPEAKER WITH STROBE
	STROBE
	SPEAKER
	FIRE FIGHTER TELEPHONE STATION
	MAGNETIC DOOR HOLD
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	ADDRESSABLE INPUT MODULE: FS - SPRINKLER WATER FLOW SWITCH, TS - TAMPER SWITCH, PIV - POST INDICATOR VALVE
	ADDRESSABLE OUTPUT MODULE: SD - FAN SHUT DOWN RELAY, AM - AUDIO MUTE

LIGHTING SYMBOLS	
	RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
	ROUND LIGHT FIXTURE - SURFACE MOUNTED
	SURFACE MOUNTED STRIP FIXTURE
	WALL MOUNTED STRIP LIGHT FIXTURE.
	EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED
	EMERGENCY LIGHT FIXTURE, CEILING MOUNT
	EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
	SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

- 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.
 - 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.

SECURITY RESPONSIBILITY MATRIX				
	PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI
IN ELEVATOR CAB - VIDEO INTERCOM:				
ROUGH-IN, PATHWAYS AND SLEEVES				●
IN CAB STATION(S)				●
HEAD END EQUIPMENT AND COMPONENTS				
SECURITY - VIDEO SURVEILLANCE:				
ROUGH-IN, PATHWAYS AND SLEEVES		●		
CAMERA(S)		●		
HEAD END EQUIPMENT AND COMPONENTS		●		
SECURITY - INTRUSION DETECTION:				
ROUGH-IN, PATHWAYS AND SLEEVES		●		
FIELD DEVICES (MOTION DETECTORS, GLASS BREAKS, DOOR SWITCHES)		●		
HEAD END EQUIPMENT AND COMPONENTS		●		
●	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.

GENERAL SYMBOLS	
	CONDUIT SLEEVE
	JUNCTION BOX, CEILING OR FLOOR MOUNTED.
	JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
	KEYNOTE
	EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
	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 EXTERIOR DRAWING REFERENCE TAG
	DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

POWER SYMBOLS	
	SINGLE RECEPTACLE, WALL MOUNTED
	DUPLEX RECEPTACLE, CEILING MOUNTED
	DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT
	DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT. "G" INDICATES PROTECTION INCLUDED IN DEVICE. SHADING INDICATES DEVICE PROTECTED BY EITHER UPSTREAM GFCI DEVICE OR CIRCUIT BREAKER
	DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WEATHER-PROOF IN-USE COVER WALL MOUNTED AT 48", OR AS NOTED.
	EQUIPMENT CONNECTION. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
	MOTOR CONNECTION. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
	EQUIPMENT CONNECTION, WALL MOUNT. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
	SAFETY DISCONNECT SWITCH
	SURGE PROTECTIVE DEVICE
	PANELBOARD - SURFACE MOUNTED
	PANELBOARD - RECESSED IN WALL
	DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

UNIT HEATER - ELECTRICAL	
REFERENCE	EUH-1
MANUFACTURER	INDEECO
MODEL #	TRIAD
SERVES	ELEVATOR SHAFT
CFM	700
KW	5.0
VOLTAGE/PH	208/3
NOTES	1,2,3,4

- NOTES:**
- PROVIDE UNIT WITH INTEGRAL DISCONNECT AND INTEGRAL THERMOSTAT.
 - PROVIDE ALL SUPPORT BRACKETS, ETC. REQUIRED FOR CEILING MOUNTED INSTALLATION.
 - MOUNT UNIT HEATERS WITH BOTTOM AT 9' AFF.
 - PROVIDE WITH 304 SS ELEMENTS WITH SS FITTINGS, EPOXY COATED ALUMINUM FAN BLADE, NEMA 4X ENCLOSURE AND SS SUPPORTS.

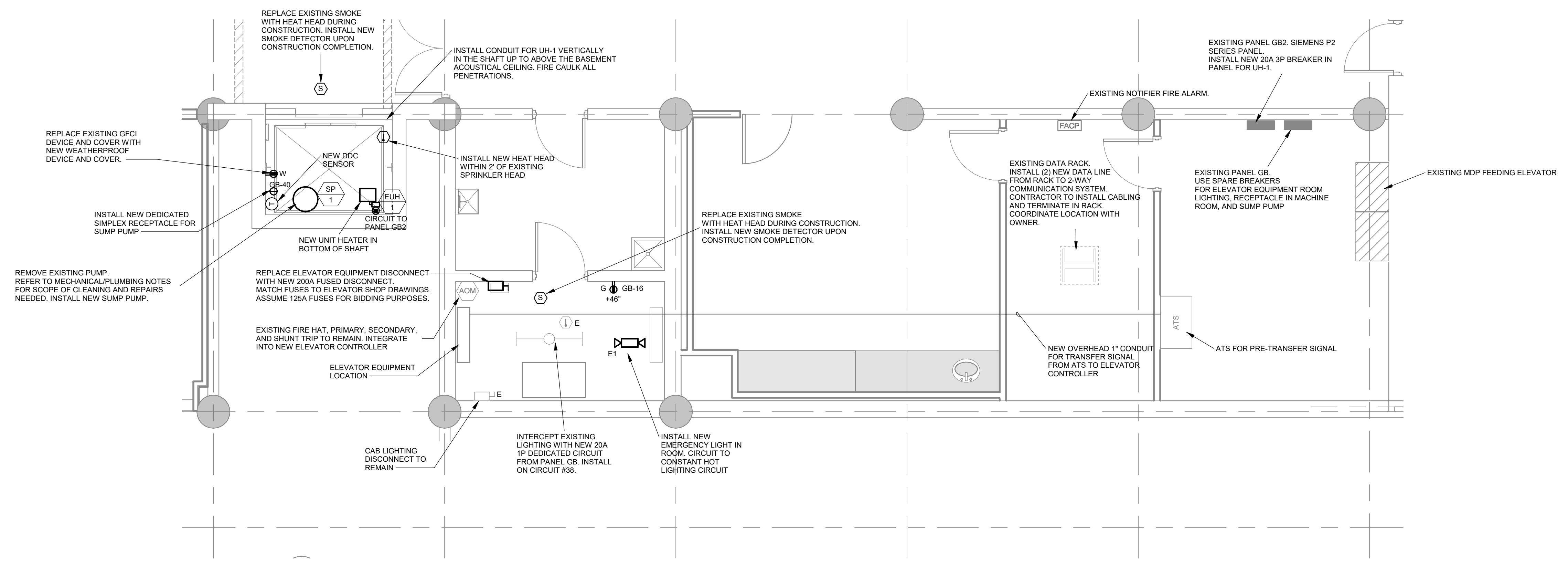
SUMP PUMP SCHEDULE	
REFERENCE	SP-1
MANUFACTURER	HYDOMATIC
MODEL #	SPD
SERVES	ELEVATOR PIT
CONFIGURATION	SINGLE
GPM	50
BASIN TYPE	EXISTING
BASIN SIZE (DIAM x HEIGHT)	TO BE FIELD VERIFIED
FT HEAD	25
HP	1
VOLTAGE/PH	120/1
NOTES	1,2,3,4,5

- NOTES:**
- PROVIDE WITH WATERPROOF POWER CABLE, VERIFY FINAL LENGTH, MINIMUM 20 FT.
 - PROVIDE WITH INTEGRAL FLOAT SWITCH OR PIGGY BACK FLOAT.
 - INSTALL TO MEET STATE ELEVATOR CODE REQUIREMENTS.
 - PROVIDE SUMP PUMP WITH CONTROL PANEL INCLUDING DRY CONTACTS FOR DDC SYSTEM ALARM CONNECTION.
 - PROVIDE WITH OIL SENSOR SYSTEM AND ALARM AND ALL REQUIRED ACCESSORIES.

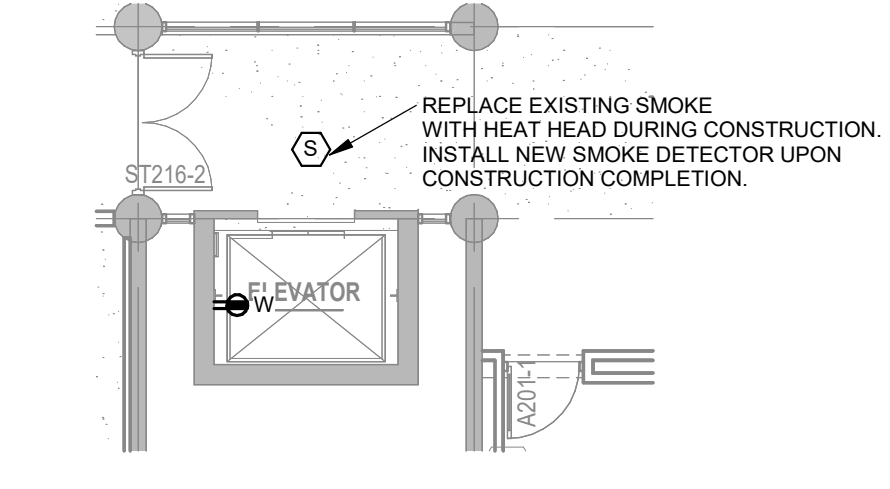
LIGHTING FIXTURE SCHEDULE									
NOTES:									
1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.									
2. INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.									
3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS 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.									
4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH ARCHITECTUREAL CEILING PLAN, MATERIALS, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE, AND OTHER COORDINATION DETAILS AS REQUIRED FOR CEILING TYPE. NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.									
5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.									
6. 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.									
7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILING OUT ALL UTILITY REBATE FORMS FOR OWNER.									
DESIGNED BY: EDH									
TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED	EQUALS
E1	HUBBELL DUAL-LITE	LZ-2-4-03L	UNIVERSAL MOUNTING EMERGENCY UNIT, ADJUSTABLE DUAL HEAD, LEAD-CALCIUM MAINTENANCE-FREE BATTERY, SELF-DIAGNOSTICS	WHITE	LED	120 V	2 VA	SURE-LITES,	LIGHTALARMS

EQUIPMENT CONNECTION SCHEDULE											
ABBREVIATIONS:					NOTES:						
1	NEMA 1 ENCLOSURE	INT	INTEGRAL WITH EQUIPMENT FROM FACTORY	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,...						
3R	NEMA 3R ENCLOSURE	MMS	MANUAL MOTOR STARTER W/ THERMAL...	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, WIRING, ETC. FOR EACH ITEM OF EQUIPMENT BEFORE PROCEEDING WITH INSTALLATION. INSTALL PER MANUFACTURERS INSTRUCTIONS.						
4X	NEMA 4X ENCLOSURE	NFD	NON-FUSED DISCONNECT SWITCH, HEAVY DUTY	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.						
4X	NEMA 4X ENCLOSURE	PFS	PLUG FUSE WITH INTEGRATED SWITCH	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.						
BO	PROVIDED BY OTHERS	RF	RETURN AIR DUCT DETECTOR	5	INSTALL DISCONNECTS TO ALLOW EQUIPMENT REMOVAL WITHOUT DISCONNECT REMOVAL AND TO MINIMIZE WIRE LENGTH.						
CB	CIRCUIT BREAKER IN PANEL	RSR	RUN STATUS RELAY, NORMALLY OPEN	6	PROVIDE HEAVY DUTY DISCONNECTS RATED FOR THE INSTALLED ENVIRONMENT; NEMA 1 IN DOORS, MINIMUM NEMA 3R...						
CSD	COMBINATION STARTER/DISCONNECT	SD	SUPPLY AIR DUCT DETECTOR	7	VERIFY ALL EQUIPMENT LOCATIONS WITH THE ASSOCIATED SUB-CONTRACTOR.						
CP	CORD AND PLUG PROVIDED WITH UNIT	SSP	START/STOP PUSHBUTTON WITH PILOT	8	INCLUDE AUXILIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT. (I.E. 120V DAMPERS WITH 480V MOTORS).						
ESD	ENCLOSED CIRCUIT BREAKER	SS	START/STOP PUSHBUTTON								
FAR	FIRE ALARM SHUTDOWN RELAY	ST	SHUNT TRIP								
FDS	FUSED DISCONNECT SWITCH, HEAVY...	TOR	TIME DELAY OFF RELAY								
GF	GROUND FAULT CIRCUIT INTERRUPTION	TS	TOGGLE SWITCH								
HOA	HAND-OFF-AUTO	VFD	VARIABLE FREQUENCY DRIVE								
ELECTRICAL CHARACTERISTICS			DISCONNECT			CONTROLS					
TAG	VOLTAGE	PHASE	MOTOR HP	KW	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	STARTER	DESCRIPTION	REMARKS
EUH-1	208 V/3	-	-	5	NFD	30	4X	-	-	-	-

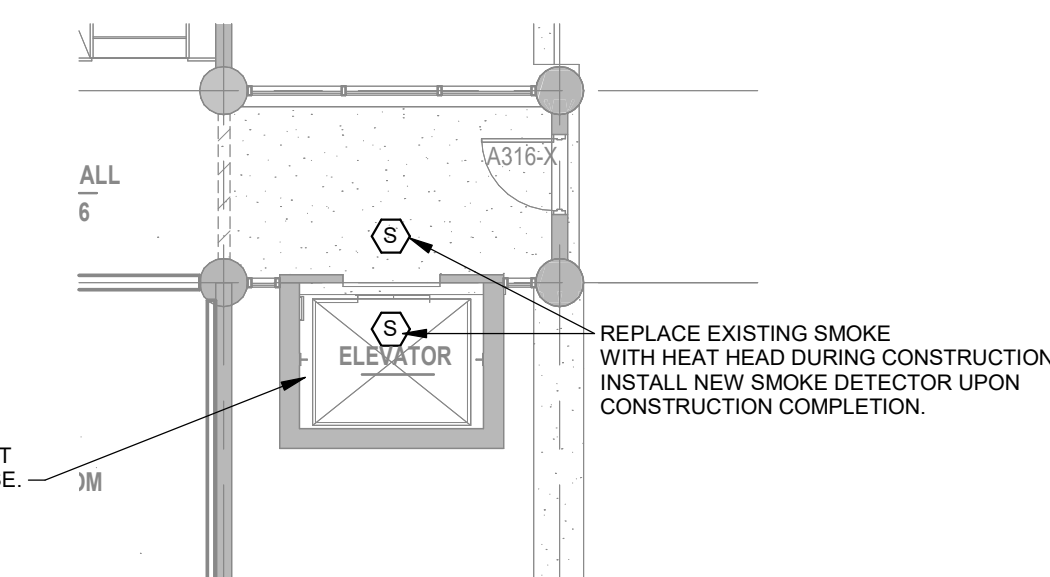
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1 GROUND FLOOR MECHANICAL/ELECTRICAL PLAN
1/4" = 1'-0"



2 FIRST FLOOR
1/8" = 1'-0"



3 SECOND FLOOR
1/8" = 1'-0"



POWER GENERAL NOTES

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.
- PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

MECHANICAL/PLUMBING SCOPE OF WORK

- PROVIDE WASH-DOWN TYPE UNIT HEATER IN BOTTOM OF SHAFT AND A DDC SENSOR ON THE INTERIOR SHAFT WALL (LOCATED HALF-WAY TO TOP OF SHAFT) TO MONITOR SPACE TEMPERATURE AND ALARM IF SHAFT GETS BELOW 50F. CONTROLS BY SIEMENS.
- REPLACE DAMAGED INSULATION OVER HEAT TRACE FOR EXISTING FP PIPING IN SHAFT.
- PROVIDE NEW SUMP PUMP SP-1 TO GO IN EXISTING SUMP PIT. PUMP SHALL ALARM THE DDC SYSTEM WHEN OPERATING. CONTROLS BY SIEMENS.
- CLEAN EXISTING DRAIN LINE ON THE EXTERIOR OF THE SHAFT AT GRADE FOR THE EXISTING SUMP PUMP LINE.
- CLEAN SUMP PIT FROM ALL DEBRIS AND EXISTING WATER. CYCLE THE SUMP PUMP THROUGH 3 CLEAN WATER CYCLES. WATER MUST BE DUMPED BY CONTRACTOR SINCE IT WILL HAVE HYDRAULIC FLUID MIXED IN.

ELECTRICAL SCOPE

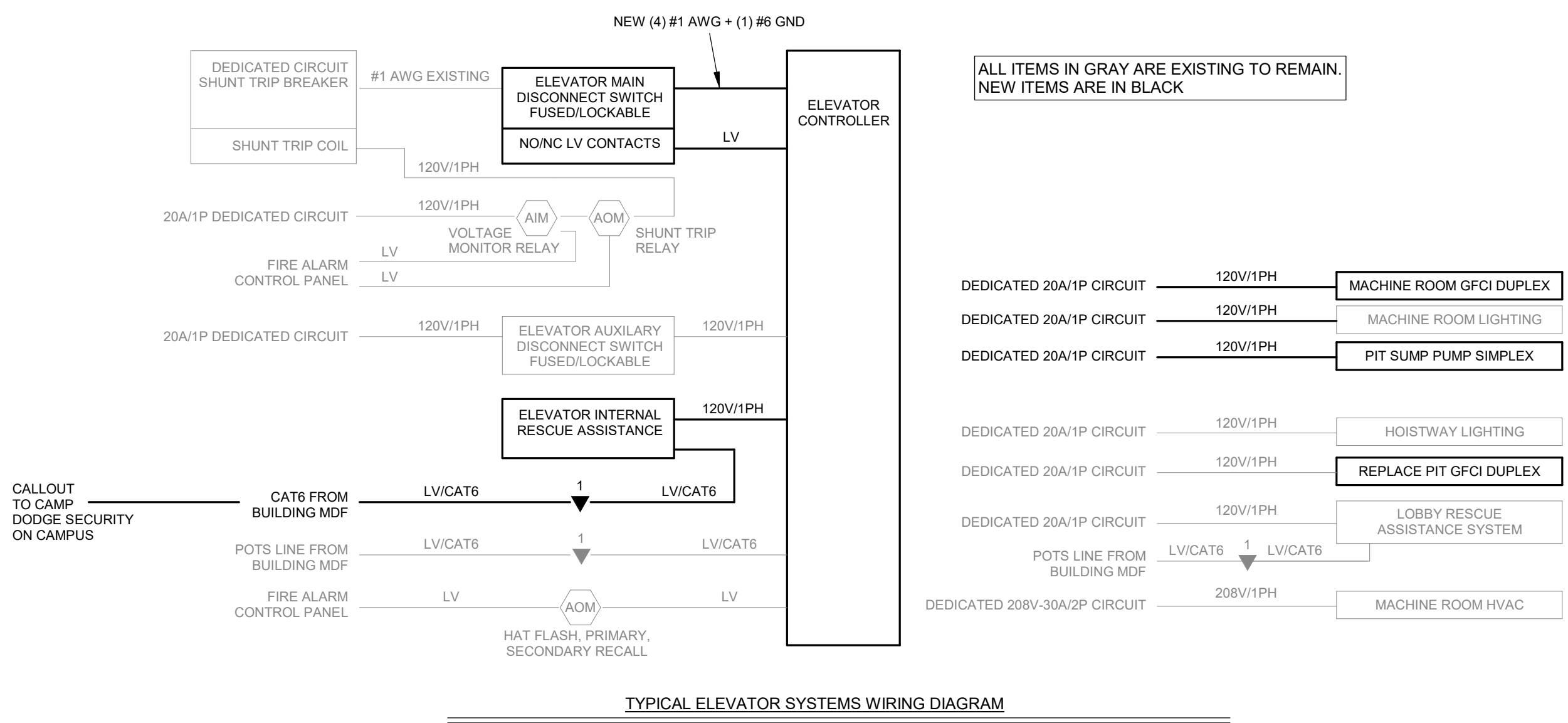
- FIRE WATCH REQUIRED FOR ANY DOWNTIME OF THE FIRE ALARM SYSTEM FOR 4 HOURS OR MORE.
- INSTALL COVERS ON OPEN JUNCTION BOX IN THE ELEVATOR SHAFT AND IN ELEVATOR MACHINE ROOM.

2-WAY COMMUNICATION SYSTEM SCOPE

- PROVIDE RATH SMARTVIEW 2.0 SYSTEM.
- CONTRACTOR SHALL PROVIDE INITIAL LICENSING FEE FOR THE FIRST YEAR AND PROVIDE RATH ID NUMBER TO OWNER FOR LICENSING RENEWAL.
- COORDINATE WITH LT. COL. GRIMALDI AND DUKE BURRELL FOR INSTALLATION OF SYSTEM, ADDRESSING, AND APPROPRIATE ACCESS.
- CAMP DODGE FRONT GATE SECURITY TEAM WILL NEED RATH FRONT END SOFTWARE INSTALLED ON THEIR COMPUTER TO PROVIDE REMOTE ACCESS TO ELEVATOR OCCUPANTS. PROVIDE MINIMUM OF 2 HOURS OF TRAINING WITH SECURITY TEAM ONSITE.

EXISTING EQUIPMENT TO REMAIN

- HEAT AND SMOKE DETECTORS IN THE SHAFT.
- CAB LIGHTING DISCONNECT.
- CONDUCTORS TO ELEVATOR DISCONNECT. FEED IS #1 AWG COPPER WHICH IS RATED FOR 130A. EXISTING BREAKER IS 125A SHUNT TRIP AND CAN REMAIN.
- PRIMARY RECALL, SECONDARY RECALL, FIRE HAT, AND SHUNT TRIP FIRE ALARM MODULES. THE MODULES INTO NEW ELEVATOR.
- SPRINKLER IN SHAFT AND HEAT TAPE ON SPRINKLER LINE.
- LIGHTING AND CONTROLS IN THE SHAFT AND ELEVATOR MACHINE ROOM.
- SPLIT SYSTEM FOR HVAC IN MACHINE ROOM.



4 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

Key Plan

Revision	Description	Date