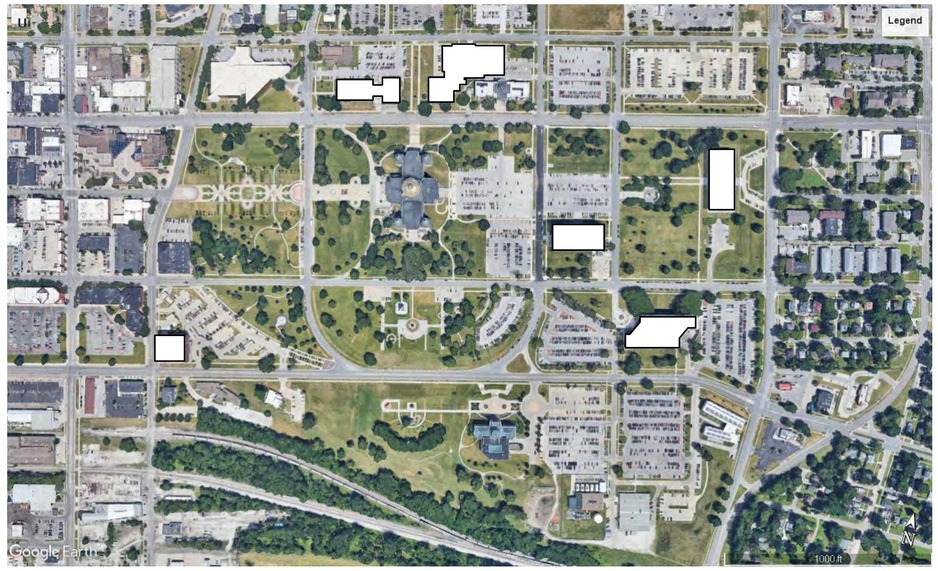
PROJECT LOCATION MAP



PROJECT COVER

HOOVER SHEET INDEX

ORAN PAPE SHEET INDEX

IWD SHEET INDEX

GRIMES SHEET INDEX

LUCAS SHEET INDEX

JESSIE PARKER SHEET INDEX

STATE OF IOWA -
CAPITOL COMPLEX ELEVATOR MODERNIZATIONS

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WEST DES MOINES, IA 50265

ELECTRICAL ENGINEER
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WEST DES MOINES, IA 50265

VERTICAL TRANSPORTATION
LERCH BATES
706 SECOND AVENUE SOUTH
MINNEAPOLIS, MN 55402

03/14/2025

BID SET

PROJECT COVER

PROJECT LOCATION MAP

SHEET INDEX

APPLICABLE CODE INFORMATION

THE PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

2015 INTERNATIONAL BUILDING CODE

ACCESSIBILITY - DIVISION 7 of IOWA STATE BUILDING CODE, IOWA STATE ACCESSIBILITY CODE 2015
IBC and ANSI A117.1 - 2009 EDITION

2015 INTERNATIONAL MECHANICAL CODE

2015 INTERNATIONAL FIRE CODE

2011 NATIONAL ELECTRICAL CODE

2015 INTERNATIONAL EXISTING BUILDING 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 Chaper 7 - Fire and Smoke Protection Features
New construction is limited and existing construction is not being modified.
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.
IBE 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 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 not be provided in the new elevator machine room nor at the bottom of the elevator pit (traction elevators). A sprinkler is not required a the top of the hoistway due to compliance with 8.15.5.6.

STATE OF IOWA - HOOVER BUILDING ELEVATOR MOD.

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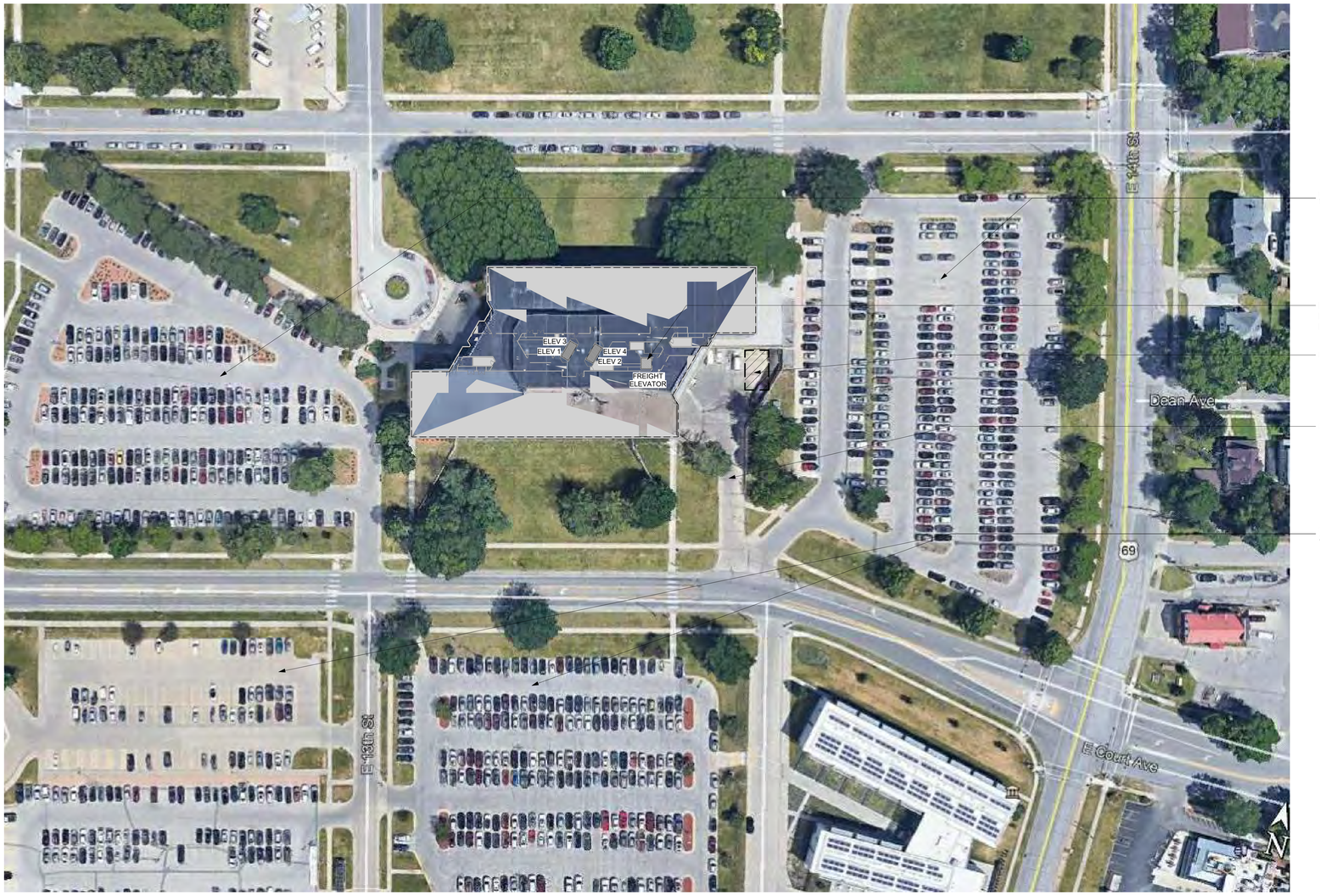

D2 OVERALL SITE PLAN

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Key Plan

Revision	Description	Date

OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
SITE LOGISTICS PLAN

Sheet Number
AG002.1

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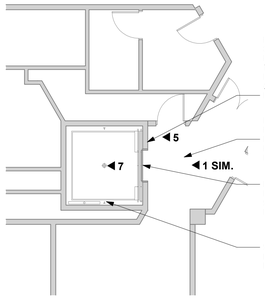


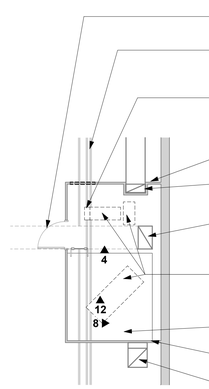
REMOVE EXISTING HALLWAY FIXTURES COMPLETE. PATCH EXISTING WALL AS REQ'D FOR NEW ELEVATOR FIXTURES. TYPICAL FOR ALL ELEVATORS. GROUT / MASTIC IN EXISTING TILE IS PRESUMED ASBESTOS CONTAINING AND SHOULD NOT BE DISTURBED.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

EXISTING ST. STL FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN - TYPICAL.

L1 LEVEL 5 DEMOLITION FLOOR PLAN
1/8" = 1'-0"



DEMO EXISTING DOOR AND FRAME COMPLETE - SALVAGE DOOR HANDLE FOR REINSTALLATION.

EXISTING HIGH VOLTAGE LINES IN CEILING SPACE ABOVE TO REMAIN.

EXISTING ELEVATOR DISCONNECTS - REMOVE AND REPLACE AS SHOWN FOR NEW ELEVATOR WORK. COORDINATE WORK WITH ENHANCEMENTS TO EXISTING ELEVATOR MACHINE ROOM WALL CONSTRUCTION. SEE ELECTRICAL DRAWINGS.

REMOVE EXISTING PASS THROUGH GRILL COMPLETE - PATCH WITH DRYWALL TO MATCH EXISTING.

EXISTING DRYWALL ENCLOSURE TO ENCLOSE MECHANICAL FED FROM OTHER SIDE OF WALL.

EXISTING DUCTWORK PASSING THROUGH THE ELEVATOR MACHINE ROOM SPACE.

REMOVE CONTROL PANELS, GENERATOR, ELEVATOR MACHINE AND ASSOCIATED ELEVATOR ITEMS COMPLETE. SEE VT DRAWINGS FOR FULL SCOPE OF WORK. CONTRACTOR TO MAKE SURE THAT EXISTING PHONE LINE IS MAINTAINED FOR REUSE IN MODERNIZATION.

ELEVATED PLATFORM

EXISTING DRYWALL AND METAL STUD PARTITION TO REMAIN. SEE PLANS FOR NEW WALL CONSTRUCTION.

EXISTING HOISTWAY EXHAUST DUCTWORK TO REMAIN - TYPICAL.

L8 LEVEL P DEMOLITION FLOOR PLAN
1/8" = 1'-0"

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. PATCH EXISTING WALL AS REQ'D FOR NEW ELEVATOR FIXTURES. TYPICAL FOR ALL ELEVATORS. GROUT / MASTIC IN EXISTING TILE IS PRESUMED ASBESTOS CONTAINING AND SHOULD NOT BE DISTURBED.

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EXISTING ST. STL FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN - TYPICAL.

F1 LEVEL 2 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

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SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN - TYPICAL.

F8 LEVEL 3 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

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SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN - TYPICAL.

F14 LEVEL 4 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

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EXISTING ST. STL FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN - TYPICAL.

A1 LEVEL B. DEMOLITION FLOOR PLAN
1/8" = 1'-0"

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. PATCH EXISTING WALL AS REQ'D FOR NEW ELEVATOR FIXTURES. TYPICAL FOR ALL ELEVATORS. GROUT / MASTIC IN EXISTING TILE IS PRESUMED ASBESTOS CONTAINING AND SHOULD NOT BE DISTURBED.

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EXISTING ST. STL FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN - TYPICAL.

A8 LEVEL A DEMOLITION FLOOR PLAN
1/8" = 1'-0"

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. PATCH EXISTING WALL AS REQ'D FOR NEW ELEVATOR FIXTURES. TYPICAL FOR ALL ELEVATORS. GROUT / MASTIC IN EXISTING TILE IS PRESUMED ASBESTOS CONTAINING AND SHOULD NOT BE DISTURBED.

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EXISTING ST. STL FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN - TYPICAL.

A14 LEVEL 1 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. 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 CM IMMEDIATELY.
2. REMOVE LOOSE PAINT AND MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES.
3. 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.
4. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
5. PATCH AND REPAIR ALL EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION OR PRIOR USE.
6. PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED.
7. 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.
8. 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.
9. EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL DEMOLITION ACTIVITIES.
10. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES.
11. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
12. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION.
13. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND/OR REGULATORY REQUIREMENTS.
15. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPING SYSTEM.
16. ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM ARE 2-HOUR FIRE RESISTANCE RATED.

DEMOLITION LEGEND

- DENOTES FLOOR AREA REQUIRING PROTECTION DURING CONSTRUCTION
- DENOTES EQUIPMENT OR BUILDING ELEMENT TO BE DEMOLISHED AND/OR MODIFIED

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Key Plan

Revision Description Date

OPN Project No.
24850000

Sheet Issue Date
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Sheet Name
DEMO FLOOR PLANS

Sheet Number
AD100.1

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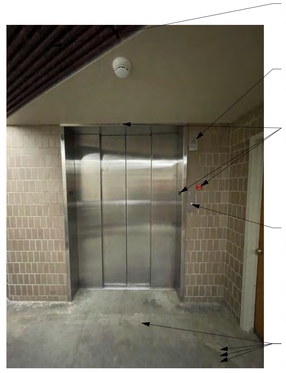


COORDINATE CEILING REMOVAL AND REPLACEMENT AS REQUIRED FOR ELECTRICAL WORK. SEE ELECTRICAL.

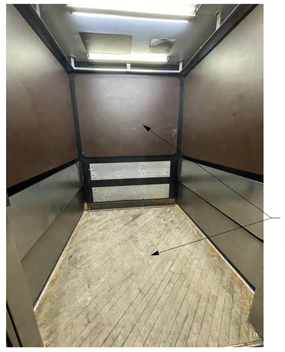
REMOVE AND REPLACE EXISTING ELEVATOR SIGNALS.

REMOVE AND REPLACE EXISTING ELEVATOR SIGNAGE

REMOVE AND REPLACE EXISTING ELEVATOR CONTROLS - PROVIDE NEW CONTROLS AT ADA COMPLIANT HEIGHT. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE. GROUT / MASTIC IN EXISTING TILE IS PRESUMED ASBESTOS CONTAINING AND SHOULD NOT BE DISTURBED.

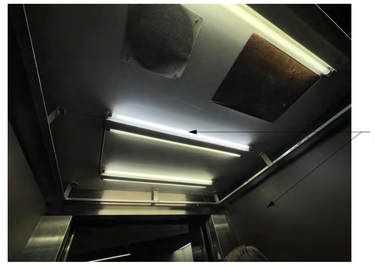
PROTECT ALL EXISTING FINISHES TO REMAIN DURING CONSTRUCTION.

1 IMAGE 1



REMOVE AND REPLACE ALL ELEVATOR FINISHES - SEE ELEVATIONS AND VT SPECIFICATIONS.

2 IMAGE 2



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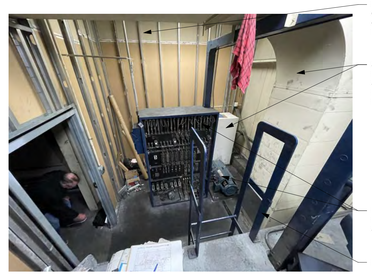
3 IMAGE 3



EXISTING WALL TO REMAIN AS PART OF NEW 2-HOUR RATED WALL CONSTRUCTION - SEE PLANS FOR DETAILS / CONFIGURATION.

SEE NEW PENTHOUSE PLANS FOR RECONFIGURATION OF SPACE TO SEPARATE OUT NON RELATED ELEVATOR ITEMS FROM THE ELEVATOR MACHINE ROOM.

REMOVE AND REPLACE EXISTING ELEVATOR EQUIPMENT COMPLETE - SEE VT SPECIFICATIONS.

EXISTING LADDER TO REMAIN.

4 IMAGE 4

REMOVE AND REPLACE EXISTING ELEVATOR SIGNAGE

REMOVE AND REPLACE EXISTING ELEVATOR CONTROLS - PROVIDE NEW CONTROLS AT ADA COMPLIANT HEIGHT. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE. GROUT / MASTIC IN EXISTING TILE IS PRESUMED ASBESTOS CONTAINING AND SHOULD NOT BE DISTURBED.

5 IMAGE 5

REMOVE, SALVAGE AND REINSTALL CARD ACCESS CONTROL. PROVIDE PATHWAYS AS REQUIRED FOR REINSTALLATION IN NEW ELEVATOR CAB.

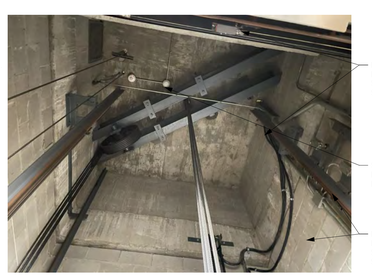
PROVIDE NEW FULLY INTEGRATED CONTROL PANEL - SEE VT SPECIFICATIONS FOR FULL REQUIREMENTS.

EXISTING FLOOR DESIGNATIONS FOR HOOVER BUILDING.

PRIMARY SERVICE FLOOR ACCESS.

REMOVE AND REPLACE ALL ELEVATOR FINISHES - SEE ELEVATIONS.

6 IMAGE 6

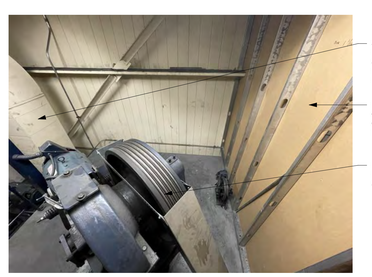


DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

SEE ELECTRICAL FOR DETECTION REQUIREMENTS.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

7 IMAGE 7



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REMOVE AND REPLACE EXISTING ELEVATOR EQUIPMENT COMPLETE - SEE VT SPECIFICATIONS.

8 IMAGE 8

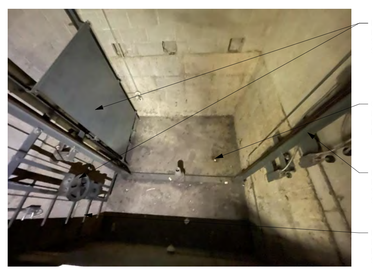
EXISTING INTERCOM TO REMAIN. PROTECT DURING CONSTRUCTION - NO WORK REQUIRED.

9 IMAGE 9

PROVIDE NEW FULLY INTEGRATED CONTROL PANEL - SEE VT SPECIFICATIONS FOR FULL REQUIREMENTS.

REMOVE AND REPLACE ALL ELEVATOR FINISHES - SEE ELEVATIONS.

10 IMAGE 10



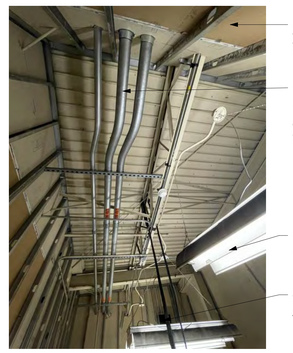
DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

CAP EXISTING DRAIN LOCATED IN ELEVATOR PIT - SEE PLUMBING DRAWINGS.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

REMOVE EXISTING LADDER COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS.

11 IMAGE 11



EXISTING WALL TO REMAIN AS PART OF NEW 2-HOUR RATED WALL CONSTRUCTION - SEE PLANS FOR DETAILS / CONFIGURATION.

EXISTING ELECTRICAL LINES LOCATED IN CEILING SPACE OF MACHINE ROOM. SEE NEW PENTHOUSE PLANS FOR NEW CEILING WORK. RELOCATE ALL SENSORS TO CEILING AS REQUIRED - SEE ALSO ELECTRICAL.

REMOVE AND REPLACE EXISTING LIGHTING COMPLETE - SEE ELECTRICAL DRAWINGS.

SEE MECHANICAL FOR UPDATED MACHINE ROOM COOLING - PATCH ALL EXISTING OPENINGS IN MACHINE ROOM WALLS.

12 IMAGE 12

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Key Plan

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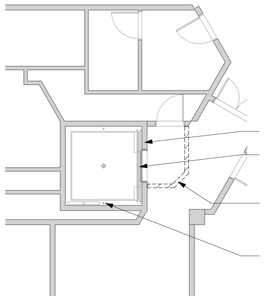
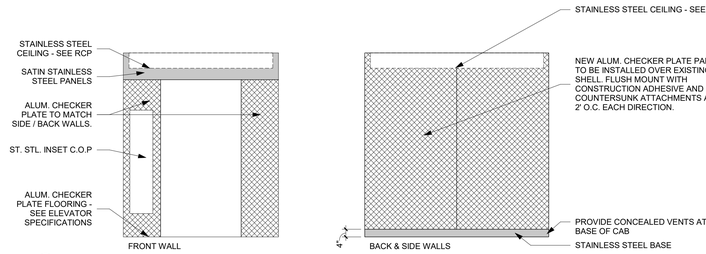
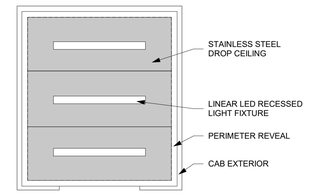


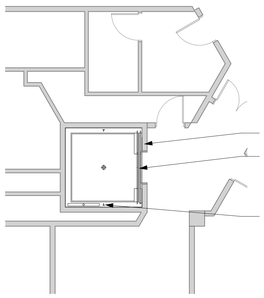
L1 LEVEL 5 FLOOR PLAN
1/8" = 1'-0"



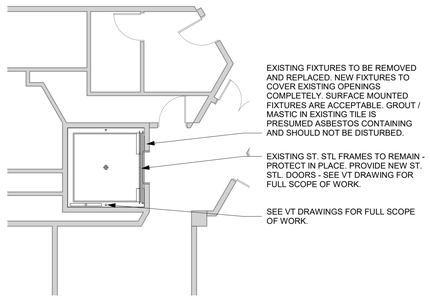
L8 ELEVATOR CAB FINISH ELEVATIONS
3/8" = 1'-0"



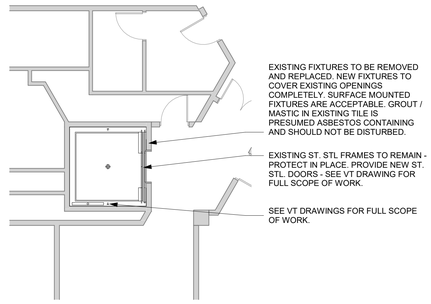
L15 ELEVATOR CAB REFLECTED CEILING PLAN
3/8" = 1'-0"



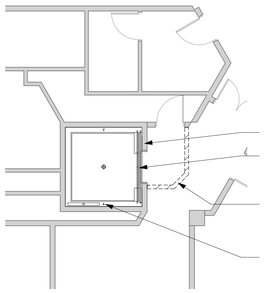
F1 LEVEL 2 FLOOR PLAN
1/8" = 1'-0"



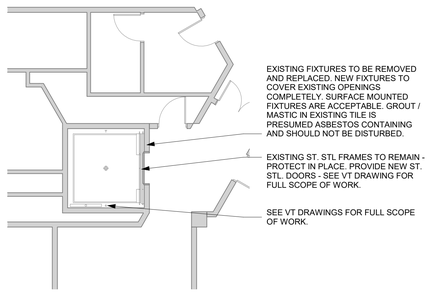
F8 LEVEL 3 FLOOR PLAN
1/8" = 1'-0"



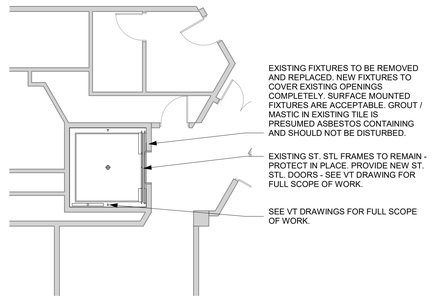
F14 LEVEL 4 FLOOR PLAN
1/8" = 1'-0"



A1 LEVEL B. FLOOR PLAN
1/8" = 1'-0"



A8 LEVEL A FLOOR PLAN
1/8" = 1'-0"



A14 LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

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.
6. ALL ROOF PENETRATIONS MUST FOLLOW ROOF MANUFACTURERS DETAILS AND MAINTAIN ROOFING WARRANTY.
7. ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM ARE 2-HOUR FIRE RESISTANCE RATED.
8. MAINTAIN ALL EXISTING CONDITIONS THAT ARE TO REMAIN. CONTRACTOR TO PROVIDE NECESSARY MEASURES TO PROTECT IN PLACE ALL EXISTING FINISHES.

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Key Plan

Revision Description Date

OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
FLOOR PLANS & DETAILS

Sheet Number
A100.1

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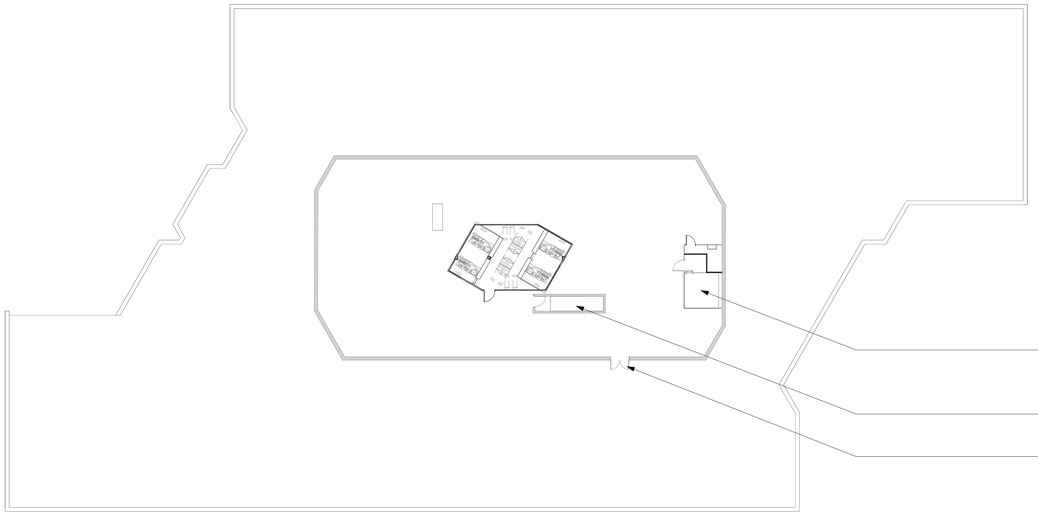
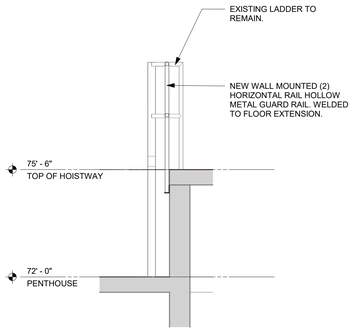


1 LEVEL P FLOOR PLAN



L16 DETAIL AT NEW RAILING
1/2" = 1'-0"

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.
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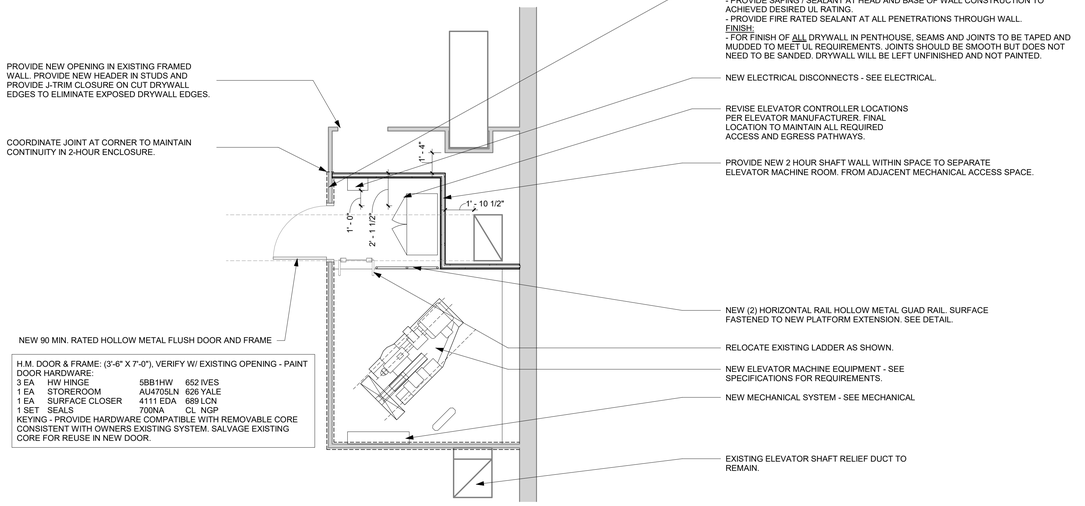
8. MAINTAIN ALL EXISTING CONDITIONS THAT ARE TO REMAIN. CONTRACTOR TO PROVIDE NECESSARY MEASURES TO PROTECT IN PLACE ALL EXISTING FINISHES.

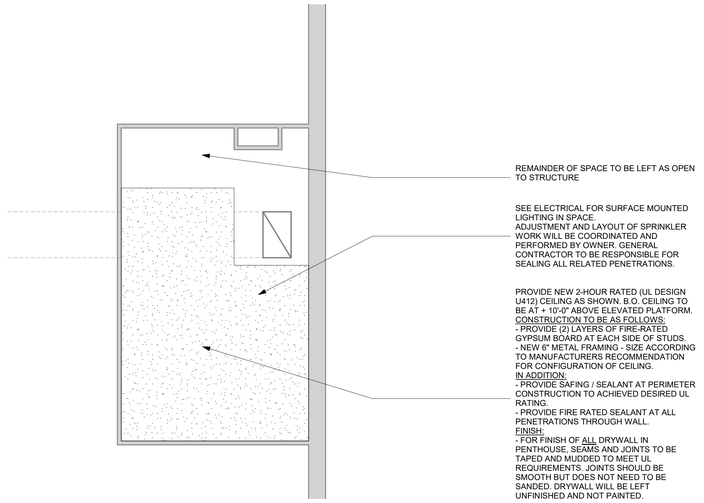


H.M. DOOR & FRAME: (3'-6" X 7'-0"), VERIFY W/ EXISTING OPENING - PAINT

DOOR HARDWARE:			
3 EA	HW HINGE	5BB1HW	652 IVES
1 EA	STOREROOM	AU4705LN	626 YALE
1 EA	SURFACE CLOSER	4111 EDA	689 LCN
1 SET	SEALS	700NA	CL NGP

KEYING - PROVIDE HARDWARE COMPATIBLE WITH REMOVABLE CORE CONSISTENT WITH OWNERS EXISTING SYSTEM. SALVAGE EXISTING CORE FOR REUSE IN NEW DOOR.

H2 LEVEL P FLOOR PLAN
1/4" = 1'-0"



A2 TOP OF HOISTWAY
1/4" = 1'-0"

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Key Plan

Revision	Description	Date

OPN Project No.
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Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
PENTHOUSE PLANS

Sheet Number
A101.1

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MECHANICAL - GENERAL NOTES

1. 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.
2. INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
3. EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
4. COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
5. CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
6. 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

1. 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.
2. 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.
3. 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.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

REFERENCE	SSI-1
MANUFACTURER	MITSUBISHI
MODEL #	PKA-A24
TYPE	WALL MOUNT
SERVES	HOOVER PENTHOUSE
WEIGHT (LBS)	46
DIMENSIONS - L x W x D (INCHES)	46x14x11
NOMINAL CAPACITY (TONS)	2.00
MAX UNIT AIRFLOW (CFM)	775
EXTERNAL STATIC PRESSURE (IN. W.G.)	0.2
COOLING CAPACITY - RATED (BTU/H)	24,000
SEER	21.1
REFRIGERANT TYPE	R454B
VOLTAGE - PH	208 - 1
ELECTRICAL DATA	
MCA	1.00
MOCP	SEE SSO SCHEDULE
NOTES	1 THROUGH 5

NOTES:
1. **PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C.**
2. **INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING INSTALLATION AND DISCONNECT BY E.C.**
3. **COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°FF, OUTDOOR: 95°F/75°F**
4. **PROVIDE FILTER WITH UNIT.**
5. **UNIT IS COOLING ONLY.**

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

REFERENCE	SSO-1
MANUFACTURER	MITSUBISHI
MODEL #	PUY-A24NHA7
SERVES	SSI-1
WEIGHT (LBS)	151
DIMENSIONS W/ CURB & ACCESSORIES - L x W x H (INCHES)	37x37x13
NOMINAL CAPACITY (TONS)	2.00
COOLING CAPACITY - RATED (BTU/H)	24,000
REFRIGERANT TYPE	R454B
COMPRESSOR QUANTITY	1
EFFICIENCY	
SEER	21.1
ELECTRICAL DATA	
VOLTAGE - PH	208 - 1
MCA	22
MOCP	37
NOTES	1,2,3,4

NOTES:
1. **DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.**
2. **PROVIDE WITH FLOOR STAND BY UNIT MFR TO SIT ON FLOOR AS SHOWN.**
3. **REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS.**
4. **SYSTEM REQUIRES LOW AMBIENT AIR COOLING OPERATION (-20 °F), PROVIDE LOW AMBIENT WIND BAFFLES.**

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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		
EC	ELECTRICAL CONTRACTOR	R	EXISTING ITEM TO BE REMOVED
EM	EMERGENCY LIGHT FIXTURE	RR	EXISTING ITEM TO BE REMOVED AND RELOCATED
ER	NEW LOCATION OF EXISTING ITEM		
F	ROUGH-IN FOR FUTURE DEVICE	RN	EXISTING ITEM TO BE REMOVED AND REPLACED WITH NEW
FAAP	FIRE ALARM ANNUNCIATOR PANEL		
FACP	FIRE ALARM CONTROL PANEL	SCCR	SHORT CIRCUIT CURRENT RATING
FSD	FIRE SMOKE DAMPER	T	TAMPER PROOF DEVICE
G	GROUND FAULT CIRCUIT INTERRUPTER	TCC	TEMPERATURE CONTROL CONTRACTOR
GND	GROUND	TV	TELEVISION
KVA	KILO-VOLT-AMPERES	TYP	TYPICAL
KW	KILOWATTS	UPS	UNINTERRUPTIBLE POWER SUPPLY
MC	MECHANICAL CONTRACTOR	V	VOLTS
MCB	MAIN CIRCUIT BREAKER	VA	VOLT-AMPERES
MDP	MAIN DISTRIBUTION PANEL	WG	WIREGUARD COVER
MLO	MAIN LUGS ONLY	WP	WEATHERPROOF DEVICE
N	NEW DEVICE IN EXISTING LOCATION	WR	WEATHER RESISTANT DEVICE
		+24"	INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR

GENERAL NOTES - ELECTRICAL

1. 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.
2. 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

1. INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
2. 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.
3. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
4. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
5. PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED DURING PROJECT. USE OWNER'S CURRENT ROOM NUMBERING AND EQUIPMENT NAMES. PROVIDE UNIQUE CIRCUIT IDENTIFICATION PER NEC 408.4(A)
6. 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

1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
2. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
3. INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG –AMERICANS WITH DISABILITIES ACT.
4. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
5. 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

1. PROVIDE NORMAL WIRING DEVICES AS GRAY UNLESS OTHERWISE NOTED.
2. PROVIDE EMERGENCY WIRING DEVICES AS ORANGE UNLESS OTHERWISE NOTED.
3. PROVIDE DEVICES COVER PLATES AS STAINLESS STEEL. MATCH WIRING DEVICES COLOR.
4. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
5. INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED.
6. AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

FIRE DETECTION & ALARM NOTES

1. INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
2. INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
3. FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
4. ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN ¾" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
5. ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER SPECIFICATION.

COMMUNICATION NOTES

1. REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT LOCATIONS.
2. INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

LIGHTING SYMBOLS

- RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
- ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
- SURFACE MOUNTED STRIP FIXTURE
- LINEAR PENDANT MOUNTED FIXTURE
- INDUSTRIAL STRIP LIGHT 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
- EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- $a — SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $b — THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $c — PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $d — DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- S1 e — LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- ETD — EMERGENCY TRANSFER DEVICE

TECHNOLOGY RESPONSIBILITY MATRIX

PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI
COMMUNICATIONS - TELECOM SYSTEMS:			
ROUGH-IN, PATHWAYS AND SLEEVES			●
RACKS, FRAMES AND ENCLOSURES		REUSE EXISTING	
COPPER HORIZONTAL CABLING			●
DATA COMMUNICATIONS SWITCHES AND HUBS		REUSE EXISTING	
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			●
SECURITY - VIDEO SURVEILLANCE:			
ROUGH-IN, PATHWAYS AND SLEEVES	N/A	N/A	N/A
CAMERA(S)	N/A	N/A	N/A
HEAD END EQUIPMENT AND COMPONENTS	N/A	N/A	N/A
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)			●

● 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 APPERTUNANCES 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.
B.

GENERAL SYMBOLS

- CONDUIT SLEEVE
- CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
- CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
- J — JUNCTION BOX, CEILING OR FLOOR MOUNTED.
- J — JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
- # — KEYNOTE
- XXX / X — EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
- 1 / A101 SIM — DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
- 1 / A101 SIM — SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
- A101 Ref 1 — INTERIOR ELEVATION DRAWING REFERENCE TAG
- 1 — DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNTED
- DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT
- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE.
- W — DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT
- 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
- SPD — SURGE PROTECTIVE DEVICE
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - RECESSED IN WALL
- DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

TEMPERATURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C

- Ⓣ — THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- Ⓗ — HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- Ⓒ — CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- Ⓢ — TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

EQUIPMENT CONNECTION SCHEDULE

ABBREVIATIONS:

1	NEMA 1 ENCLOSURE	INT	INTEGRAL WITH EQUIPMENT FROM FACTORY
3R	NEMA 3R ENCLOSURE	NFD	NON-FUSED DISCONNECT SWITCH, HEAVY DUTY
CB	CIRCUIT BREAKER IN PANEL	ST	SHUNT TRIP
FAR	FIRE ALARM SHUTDOWN RELAY	TS	TOGGLE SWITCH
FDS	FUSED DISCONNECT SWITCH, HEAVY DUTY		

NOTES:
1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL SYSTEMS.
2. REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY.
3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R OUTDOORS.
4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

	ELECTRICAL CHARACTERISTICS					DISCONNECT				
TAG	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	REMARKS
SSI-1	208 V	1	-	-	1	NFD	30	1	-	-
SSO-1	208 V	1	-	-	19	NFD	30	3R	-	-

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,...
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 FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: ERIC HEYNEN

TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	DRIVER TYPE	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
EM	HUBBELL DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT REQUIRED	WHITE	300	LED	LED - 4000K	120 V	2 VA	SURE-LITES, LIGHTALARMS, LITHONIA
F1	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS, MULTI-VOLT REQUIRED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F2	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	SAME AS F1 BUT WALL MOUNTED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F3	ALPHABET	NU4E4-RD-SW-15LM-3-5K-90-60D-CL-WH-WH-RET-UNV	4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN SPACE	WHITE	1500	LED	LED - 3500K	120 V	16 VA	GOTHAM, PORTFOLIO

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Key Plan

Revision	Description	Date

OPN Project No.
24850000

Sheet Issue Date
BID SET 03/14/2025

Sheet Name
ELECTRICAL/MECHANICAL GENERAL NOTES & SYMBOLS HOOVER

ME000.1

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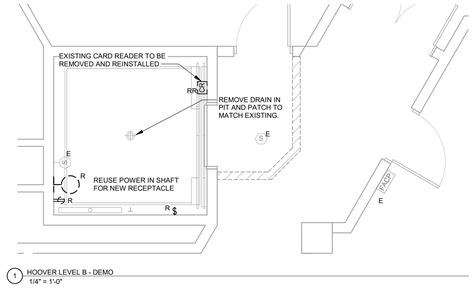
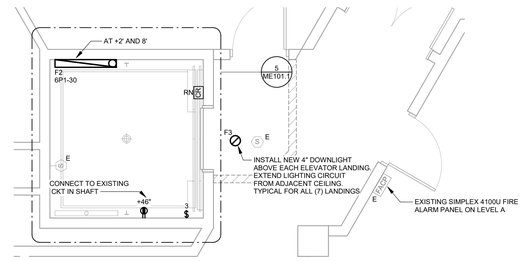


1 HOOVER LEVEL B - DEMO
1/4" = 1'-0"



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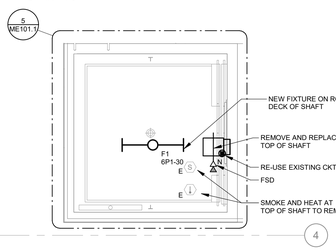
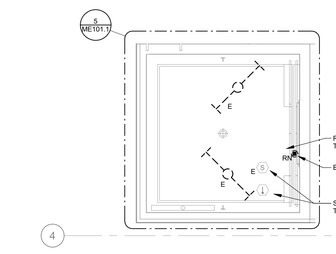
1/4" = 1'-0"



7 HOOVER TOP OF HOISTWAY
1/4" = 1'-0"



9 HOOVER TOP OF HOISTWAY - DEMO
1/4" = 1'-0"

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 CEILINGS TILES DAMAGED DURING DEMOLITION.
   d. KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECCESARY 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

POWER GENERAL NOTES

A. 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.

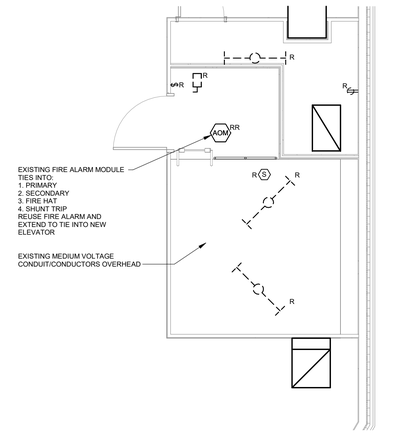
B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

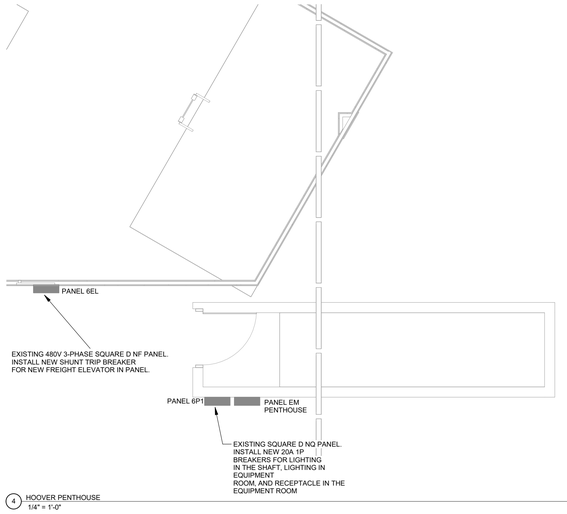
LIGHTING GENERAL NOTES

A. 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, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT

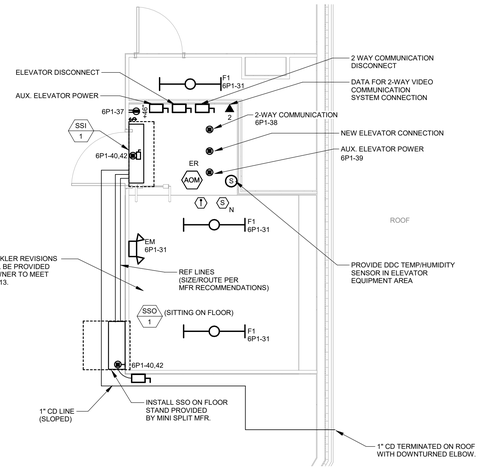
B. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

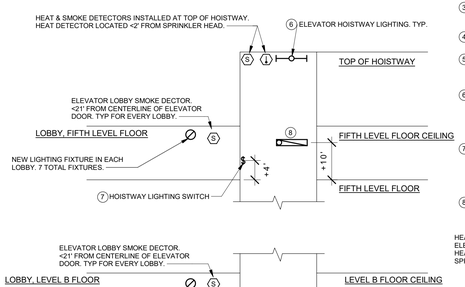


3 HOOVER PENTHOUSE - DEMO
1/4" = 1'-0"

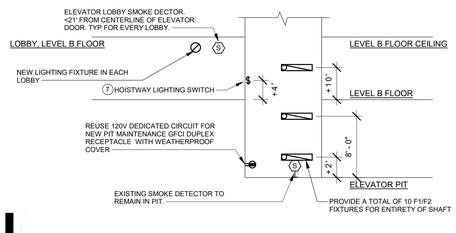


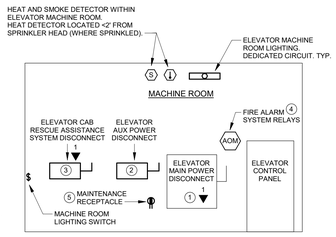
4 HOOVER PENTHOUSE
1/4" = 1'-0"





TYPICAL ELEVATOR HOISTWAY ELEVATION



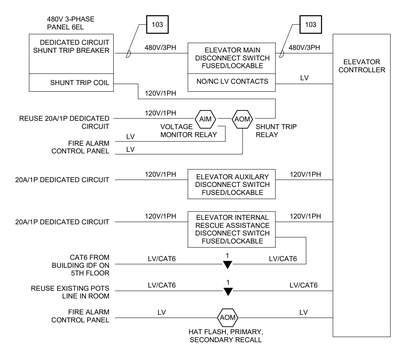


TYPICAL ELEVATOR MACHINE ROOM

5 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

KEY NOTES:

1. FUSED, LOCKABLE 100A MAIN DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR MAIN POWER. PROVIDED WITH NO/NC LOW VOLTAGE CONTACTS.
2. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILIARY LIGHTING/VENTILATION,
3. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
4. FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.
5. DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO DISCONNECTS.
6. 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.
7. 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
8. PROVIDE A TOTAL OF 10 F1/F2 LIGHTING FIXTURES FOR SHAFT.



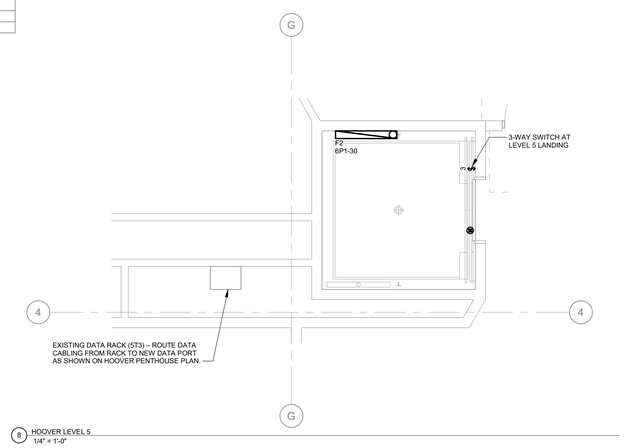
TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

6 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

FEEDER SCHEDULE

TAG	PHASE	GROUND	CONDUCTOR MATERIAL	CONDUIT
103	1- SET (3) #3	#8	COPPER	(1) 1"
153	1- SET (3) #1/0	#6	COPPER	(1) 2"

DEDICATED 20A/1P CIRCUIT	120V/1PH	HOISTWAY LIGHTING
DEDICATED 20A/1P CIRCUIT	120V/1PH	MACHINE ROOM LIGHTING
DEDICATED 20A/1P CIRCUIT	120V/1PH	PIT GFCI DUPLEX
DEDICATED 20A/1P CIRCUIT	120V/1PH	MACHINE ROOM GFCI DUPLEX
DEDICATED 20A/1P CIRCUIT	120V/1PH	SUMP PUMP
DEDICATED 208V-30A/2P CIRCUIT	208V/1PH	MACHINE ROOM HVAC



8 HOOVER LEVEL 5
1/4" = 1'-0"

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Key Plan

Revision	Description	Date

OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
ELECTRICAL/MECHANICAL HOOVER

Sheet Number
ME101.1

PROJECT LOCATION MAP

SHEET INDEX

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

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.
IBE 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 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 not be provided in the new elevator machine room nor at the bottom of the elevator pit (traction elevators). A sprinkler is not required a the top of the hoistway due to compliance with 8.15.5.6.

STATE OF IOWA - ORAN PAPE ELEVATOR MOD.

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03/14/2025

BID SET

AG001.2

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1 SITE ARIEL

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Key Plan

Revision Description Date

OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
SITE LOGISTICS PLAN

Sheet Number
AG002.2

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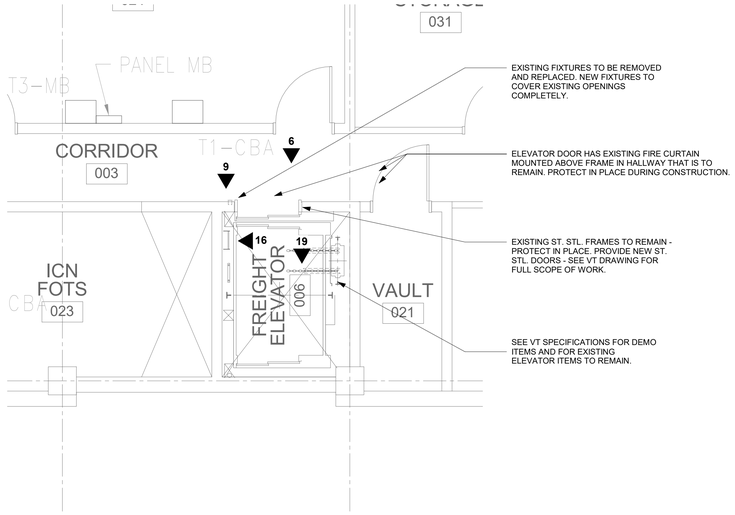


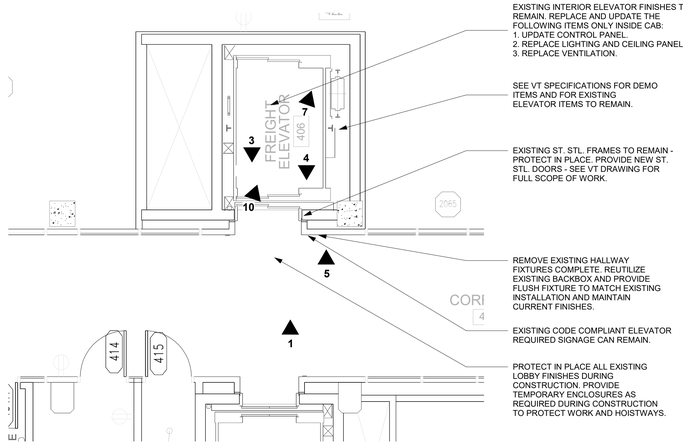
EXISTING FIXTURES TO BE REMOVED AND REPLACED. NEW FIXTURES TO COVER EXISTING OPENINGS COMPLETELY.

ELEVATOR DOOR HAS EXISTING FIRE CURTAIN MOUNTED ABOVE FRAME IN HALLWAY THAT IS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

N2 LEVEL 1 DEMO FLOOR PLAN
1/4" = 1'-0"



EXISTING INTERIOR ELEVATOR FINISHES TO REMAIN. REPLACE AND UPDATE THE FOLLOWING ITEMS ONLY INSIDE CAB:
1. UPDATE CONTROL PANEL.
2. REPLACE LIGHTING AND CEILING PANELS.
3. REPLACE VENTILATION.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. REUTILIZE EXISTING BACKBOX AND PROVIDE FLUSH FIXTURE TO MATCH EXISTING INSTALLATION AND MAINTAIN CURRENT FINISHES.

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

N11 LEVEL 4 DEMO FLOOR PLAN
1/4" = 1'-0"

EXISTING INTERIOR ELEVATOR FINISHES TO REMAIN. REPLACE AND UPDATE THE FOLLOWING ITEMS ONLY INSIDE CAB:
1. UPDATE CONTROL PANEL.
2. REPLACE LIGHTING AND CEILING PANELS.
3. REPLACE VENTILATION.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. REUTILIZE EXISTING BACKBOX AND PROVIDE FLUSH FIXTURE TO MATCH EXISTING INSTALLATION AND MAINTAIN CURRENT FINISHES.

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

G2 LEVEL 2 DEMO FLOOR PLAN
1/4" = 1'-0"

EXISTING INTERIOR ELEVATOR FINISHES TO REMAIN. REPLACE AND UPDATE THE FOLLOWING ITEMS ONLY INSIDE CAB:
1. UPDATE CONTROL PANEL.
2. REPLACE LIGHTING AND CEILING PANELS.
3. REPLACE VENTILATION.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. REUTILIZE EXISTING BACKBOX AND PROVIDE FLUSH FIXTURE TO MATCH EXISTING INSTALLATION AND MAINTAIN CURRENT FINISHES.

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

G11 LEVEL 5 DEMO FLOOR PLAN
1/4" = 1'-0"

EXISTING INTERIOR ELEVATOR FINISHES TO REMAIN. REPLACE AND UPDATE THE FOLLOWING ITEMS ONLY INSIDE CAB:
1. UPDATE CONTROL PANEL.
2. REPLACE LIGHTING AND CEILING PANELS.
3. REPLACE VENTILATION.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. REUTILIZE EXISTING BACKBOX AND PROVIDE FLUSH FIXTURE TO MATCH EXISTING INSTALLATION AND MAINTAIN CURRENT FINISHES.

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

A2 LEVEL 3 DEMO FLOOR PLAN
1/4" = 1'-0"

ELEVATOR DOOR HAS EXISTING FIRE CURTAIN MOUNTED ABOVE FRAME IN HALLWAY THAT IS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

EXISTING LADDER FOR ACCESS TO GOVERNOR TO REMAIN.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN. CONTRACTOR TO MAKE SURE THAT EXISTING PHONE LINE IS MAINTAINED FOR REUSE IN MODERNIZATION.

ELECTRICAL DISCONNECT - SEE ELECTRICAL.

DEMO COOLING UNIT IS CEILING SPACE ABOVE COMPLETE - SEE MECHANICAL.

ELEVATOR 1 CONTROL PANELS - NOT IN SCOPE. PROTECT IN PLACE AND DO NOT DISRUPT SERVICE DURING CONSTRUCTION.

A11 PENTHHOUSE DEMO FLOOR PLAN
1/4" = 1'-0"

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Key Plan

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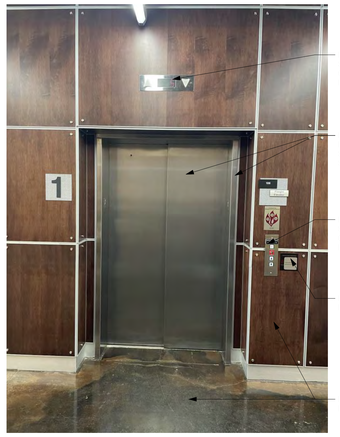


PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS AND MAINTAIN THE EXISTING FINISHES.

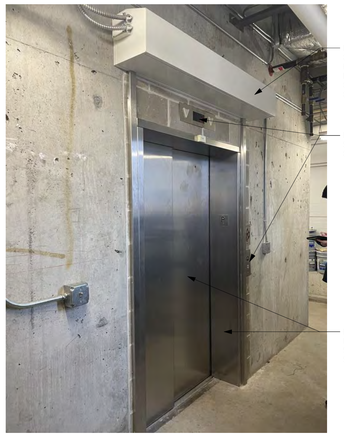
EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

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

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROTECT ALL EXISTING HALLWAY FINISHES DURING CONSTRUCTION.

1 IMAGE 1



ELEVATOR DOOR HAS EXISTING FIRE CURTAIN MOUNTED ABOVE FRAME IN HALLWAY THAT IS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CURTAIN TO BE AT END OF CONSTRUCTION - SEE ELECTRICAL.

PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

2 IMAGE 2

EXISTING CEILING GRID TO REMAIN, REPLACE LIGHTING AND LAY IN PANELS WITH NEW.

PROVIDE NEW C.O.P. PANEL WITH REQUIRED UPGRADES - SEE VT SPECIFICATIONS. FLOORING DESIGNATIONS TO MATCH EXISTING.

EXISTING ELEVATOR FINISHES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

CARD READER TO BE SALVAGED AND REINSTALLED.

PROVIDE NEW ST. STL. DOORS - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK.

REMOVE AND REPLACE FLOORING WITH NEW RUBBER FLOORING.

3 IMAGE 3

EXISTING ELEVATOR FINISHES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

ALL REQUIRED SIGNAGE TO BE ENGRAVED ON C.O.P. PANEL.

PROVIDE NEW C.O.P. PANEL WITH REQUIRED UPGRADES - SEE VT SPECIFICATIONS. FLOORING DESIGNATIONS TO MATCH EXISTING.

CARD READER TO BE SALVAGED AND REINSTALLED.

4 IMAGE 4

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

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

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROTECT ALL EXISTING HALLWAY FINISHES DURING CONSTRUCTION.

5 IMAGE 5

ELEVATOR DOOR HAS EXISTING FIRE CURTAIN MOUNTED ABOVE FRAME IN HALLWAY THAT IS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CURTAIN TO BE AT END OF CONSTRUCTION - SEE ELECTRICAL.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

6 IMAGE 6

EXISTING CEILING GRID TO REMAIN, REPLACE LIGHTING AND LAY IN PANELS WITH NEW.

SALVAGE AND REINSTALL EXISTING SECURITY CAMERA IN SAME PLACE.

EXISTING ELEVATOR FINISHES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

7 IMAGE 7

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

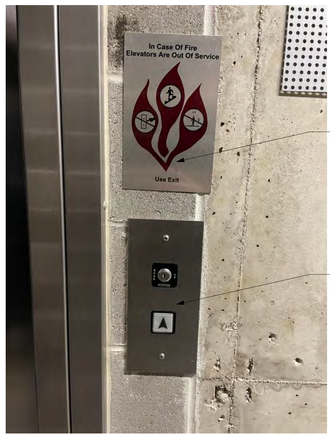
EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

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

PROTECT ALL EXISTING HALLWAY FINISHES DURING CONSTRUCTION.

8 IMAGE 8



EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS.

9 IMAGE 9

EXISTING CEILING GRID TO REMAIN, REPLACE LIGHTING AND LAY IN PANELS WITH NEW.

EXISTING ELEVATOR FINISHES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

EXISTING RAILINGS TO REMAIN.

PROVIDE NEW ST. STL. DOORS - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK.

REMOVE AND REPLACE FLOORING WITH NEW RUBBER FLOORING.

10 IMAGE 10

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Key Plan

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Sheet Number
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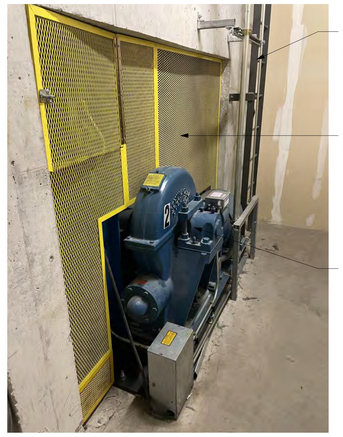
EXISTING BUILDING SUPPLY IN ADJACENT (SEPARATE) SHAFT NEXT TO ELEVATOR SHAFT.

11 IMAGE 11



EXISTING LADDER FOR ACCESS TO GOVERNOR. MAINTAIN PROPER CODE ACCESS TO EQUIPMENT.

REQUIRED SHAFT PROTECTION - MAINTAIN OR PROVIDE NEW AS REQUIRED BY NEW ELEVATOR EQUIPMENT.

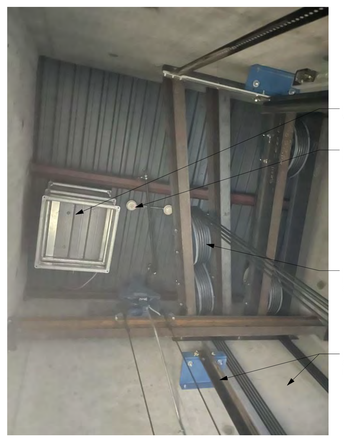
REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

12 IMAGE 12

REPLACE EXISTING THERMOSTAT AND MECHANICAL UNIT - SEE MECHANICAL.

REMOVE AND REPLACE EXISTING ELEVATOR CONTROLLER - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

13 IMAGE 13



EXISTING ELEVATOR HOISTWAY VENTILATION TO BE MAINTAINED.

EXISTING ELEVATOR HOISTWAY DETECTION - SEE ELECTRICAL.

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

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR ELEVATOR REQUIREMENTS.

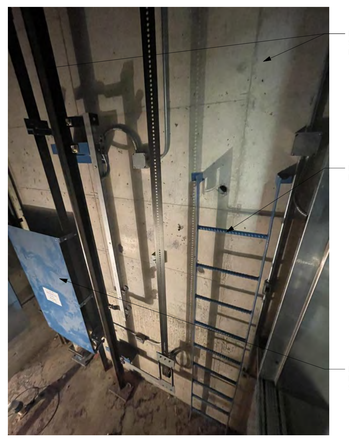
14 IMAGE 14

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR ELEVATOR REQUIREMENTS.

REQUIRED SHAFT PROTECTION - MAINTAIN OR PROVIDE NEW AS REQUIRED BY NEW ELEVATOR EQUIPMENT.

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

15 IMAGE 15

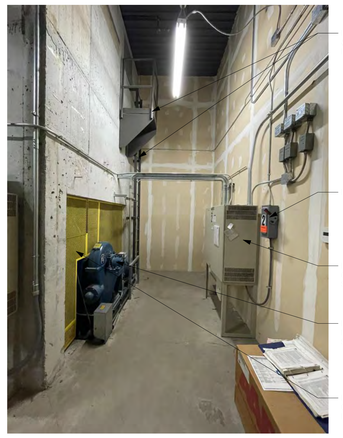


EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR ELEVATOR REQUIREMENTS.

EXISTING ELEVATOR PIT LADDER TO REMAIN.

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

16 IMAGE 16



EXISTING LADDER AND PLATFORM FOR ACCESS TO GOVERNOR. MAINTAIN PROPER CODE ACCESS TO EQUIPMENT.

ELECTRICAL DISCONNECT - SEE ELECTRICAL.

REMOVE AND REPLACE EXISTING ELEVATOR CONTROLLER - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

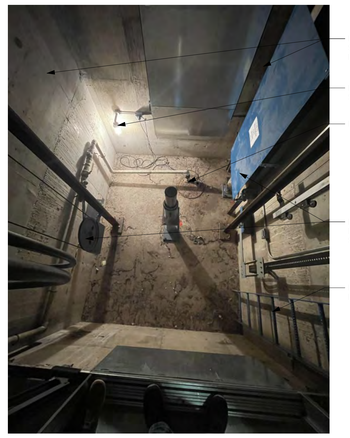
REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

REQUIRED SHAFT PROTECTION - MAINTAIN OR PROVIDE NEW AS REQUIRED BY NEW ELEVATOR EQUIPMENT.

17 IMAGE 17

REMOVE AND REPLACE EXISTING MECHANICAL UNIT - SEE MECHANICAL.

18 IMAGE 18



EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR ELEVATOR REQUIREMENTS.

PROVIDE NEW ELEVATOR LIGHTING IN SHAFT - SEE ELECTRICAL.

EXISTING ELEVATOR SUMP TO BE REMAIN.

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

EXISTING ELEVATOR PIT LADDER TO REMAIN.

19 IMAGE 19

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Key Plan

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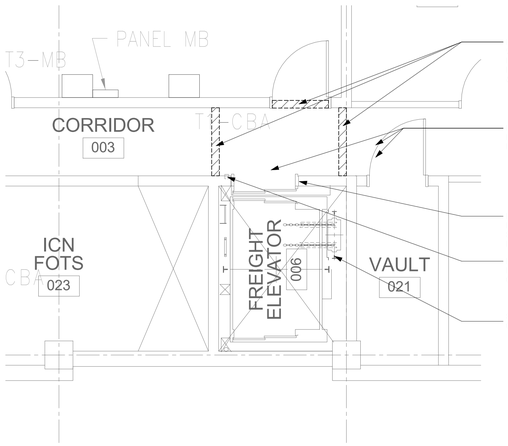


PROVIDE TEMPORARY WOOD SHEATHING PARTITION WALL WITH DOOR. ACCESS OTHER EITHER SIDE OF HALLWAY IS ACCESSIBLE FROM STAIRS AT EITHER END. CONFIRM CONFIGURATION WITH FIRE MARSHAL AS REQUIRED.

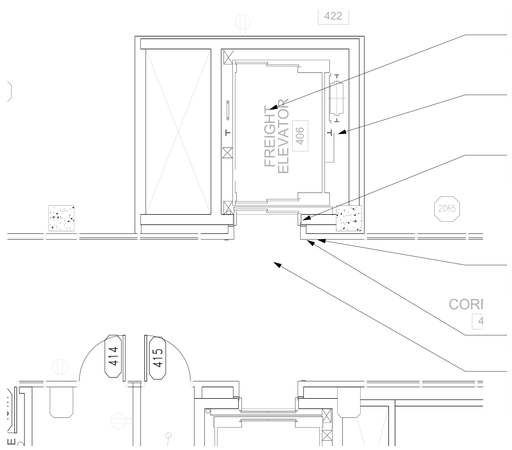
ELEVATOR DOOR HAS EXISTING FIRE CURTAIN MOUNTED ABOVE FRAME IN HALLWAY THAT IS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

EXISTING FIXTURES TO BE REMOVED AND REPLACED. NEW FIXTURES TO COVER EXISTING OPENINGS COMPLETELY.

SEE VT DRAWINGS FOR FULL SCOPE OF WORK.

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



EXISTING INTERIOR ELEVATOR FINISHES TO REMAIN. REPLACE AND UPDATE THE FOLLOWING ITEMS ONLY INSIDE CAB:
1. UPDATE CONTROL PANEL.
2. REPLACE LIGHTING AND CEILING PANELS.
3. REPLACE VENTILATION.

SEE VT DRAWINGS FOR FULL SCOPE OF WORK.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REUTILIZE EXISTING BACKBOX AND PROVIDE FLUSH FIXTURE TO MATCH EXISTING INSTALLATION AND MAINTAIN CURRENT FINISHES.

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

P11 LEVEL 4 FLOOR PLAN
1/4" = 1'-0"

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3. REPLACE VENTILATION.

SEE VT DRAWINGS FOR FULL SCOPE OF WORK.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

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H2 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"

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SEE VT DRAWINGS FOR FULL SCOPE OF WORK.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

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EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

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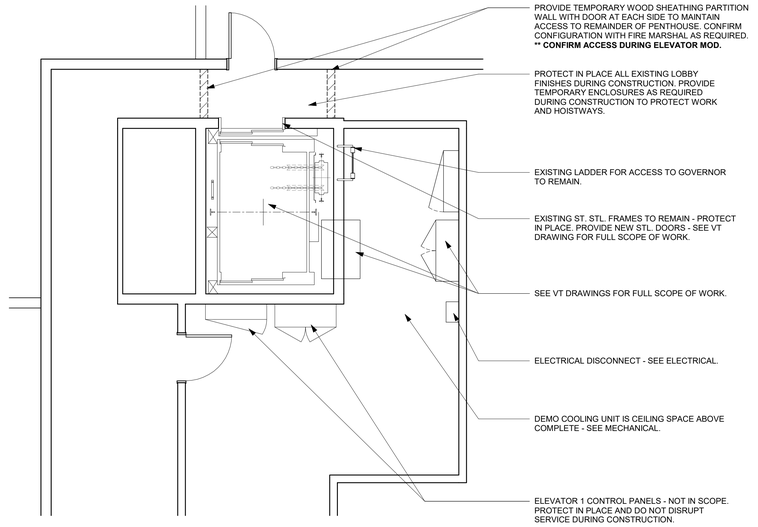
A2 LEVEL 3 FLOOR PLAN
1/4" = 1'-0"



PROVIDE TEMPORARY WOOD SHEATHING PARTITION WALL WITH DOOR AT EACH SIDE TO MAINTAIN ACCESS TO REMAINDER OF PENTHOUSE. CONFIRM CONFIGURATION WITH FIRE MARSHAL AS REQUIRED.
**** CONFIRM ACCESS DURING ELEVATOR MOD.**

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

EXISTING LADDER FOR ACCESS TO GOVERNOR TO REMAIN.

EXISTING ST. STL. FRAMES TO REMAIN - PROTECT IN PLACE. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

SEE VT DRAWINGS FOR FULL SCOPE OF WORK.

ELECTRICAL DISCONNECT - SEE ELECTRICAL.

DEMO COOLING UNIT IS CEILING SPACE ABOVE COMPLETE - SEE MECHANICAL.

ELEVATOR 1 CONTROL PANELS - NOT IN SCOPE. PROTECT IN PLACE AND DO NOT DISRUPT SERVICE DURING CONSTRUCTION.

A11 PENTHHOUSE FLOOR PLAN
1/4" = 1'-0"

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.

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Key Plan

Revision	Description	Date

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MECHANICAL - GENERAL NOTES

1. 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.
2. INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
3. 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.
4. EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
5. COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
6. CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
7. 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.
8. 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.
9. PROVIDE WARRANTIES FOR ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS, PARTS ONLY, NON-PRORATED, FROM THE DATE OF OCCUPANCY OR SUBSTANTIAL COMPLETION, OR WHICHEVER OCCURS FIRST. THE WARRANTY SHALL COVER COMPRESSORS, EVAPORATORS, CONDENSER COILS, HIGH AND LOW SIDE PIPING, AND PIPING SPECIALTIES INCLUDING EXPANSION AND SOLENOID VALVES, RELIEF VALVES, FILTER-DRYER, AND SIGHT GLASSES. PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY DOES NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM THE OWNER'S ACCIDENT, IMPROPER OPERATION, OR FAILURE TO PROVIDE MAINTENANCE. WARRANTY COVERS DEFECTIVE MATERIAL AND INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

MECHANICAL – DEMOLITION NOTES

1. 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.
2. 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.
3. 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.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

HVAC - NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. PROVIDE MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.
3. PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.
4. CONTINUE PIPE INSULATION THROUGH WALLS, FLOORS, AND CEILING PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED IN DUCTWORK.

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
FACP	FIRE ALARM CONTROL PANEL	TV	TELEVISION
FSD	FIRE SMOKE DAMPER	TYP	TYPICAL
G	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
GND	GROUND	V	VOLTS
KVA	KILO-VOLT-AMPERES	VA	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
MLO	MAIN LUGS ONLY		
N	NEW DEVICE IN EXISTING LOCATION		

GENERAL NOTES - ELECTRICAL

1. 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.
2. 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

1. INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
2. 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.
3. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
4. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
5. 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)
6. 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

1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
2. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
3. INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG –AMERICANS WITH DISABILITIES ACT.
4. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
5. 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

1. PROVIDE NORMAL WIRING DEVICES AS GRAY UNLESS OTHERWISE NOTED.
2. PROVIDE EMERGENCY WIRING DEVICES AS ORANGE UNLESS OTHERWISE NOTED.
3. PROVIDE DEVICES COVER PLATES AS STAINLESS STEEL. MATCH WIRING DEVICES COLOR.
4. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
5. INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED.
6. AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

FIRE DETECTION & ALARM NOTES

1. INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
2. INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
3. FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
4. ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN ¾" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
5. ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER SPECIFICATION.

COMMUNICATION NOTES

1. REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT LOCATIONS.
2. INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

LIGHTING SYMBOLS

- a — RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
- ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
- SURFACE MOUNTED STRIP FIXTURE
- LINEAR PENDANT MOUNTED FIXTURE
- INDUSTRIAL STRIP LIGHT 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
- EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- $a — SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $3b — THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $Pc — PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $Dd — DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- S1 e — LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- ETD — EMERGENCY TRANSFER DEVICE

TECHNOLOGY RESPONSIBILITY MATRIX

PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI
COMMUNICATIONS - TELECOM SYSTEMS:			
ROUGH-IN, PATHWAYS AND SLEEVES			●
RACKS, FRAMES AND ENCLOSURES	REUSE EXISTING		
COPPER HORIZONTAL CABLING			●
DATA COMMUNICATIONS SWITCHES AND HUBS	REUSE EXISTING		
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			●
SECURITY - VIDEO SURVEILLANCE:			
ROUGH-IN, PATHWAYS AND SLEEVES	N/A	N/A	N/A
CAMERA(S)	N/A	N/A	N/A
HEAD END EQUIPMENT AND COMPONENTS	N/A	N/A	N/A
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)			●

● 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 APPERTUNANCES 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.
B.

GENERAL SYMBOLS

- CONDUIT SLEEVE
- CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
- CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
- J — JUNCTION BOX, CEILING OR FLOOR MOUNTED.
- J — JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
- # — KEYNOTE
- XXX / X — EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
- 1 / A101 SIM — DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE; SHEET REFERENCE
- 1 / A101 SIM — SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE; SHEET REFERENCE
- A101 / 1 Ref — INTERIOR ELEVATION DRAWING REFERENCE TAG
- 1 — DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNTED
- DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT
- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE.
- W — DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT
- 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
- SPD — SURGE PROTECTIVE DEVICE
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - RECESSED IN WALL
- DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

TEMPERATURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C

- T — THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- H — HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- C — CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- S — TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

REFERENCE	SSI-1
MANUFACTURER	MITSUBISHI
MODEL #	PKA-A36
TYPE	WALL MOUNT
SERVES	ORAN PAPE
WEIGHT (LBS)	46
DIMENSIONS - L x W x D (INCHES)	41x52x13
NOMINAL CAPACITY (TONS)	3.00
MAX UNIT AIRFLOW (CFM)	920
EXTERNAL STATIC PRESSURE (IN. W.G.)	0.2
COOLING CAPACITY - RATED (BTU/H)	36,000
SEER	20.3
REFRIGERANT TYPE	R454B
VOLTAGE - PH	208 - 1
ELECTRICAL DATA	
MCA	1.00
MOCP	SEE SSO SCHEDULE
NOTES	1 THROUGH 5

NOTES:
1. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C.
2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING INSTALLATION AND DISCONNECT BY E.C.
3. COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°FF, OUTDOOR: 95°F/75°F
4. PROVIDE FILTER WITH UNIT.
5. UNIT IS COOLING ONLY.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

REFERENCE	SSO-1
MANUFACTURER	MITSUBISHI
MODEL #	PUY-AK36NL
SERVES	SSI-1
WEIGHT (LBS)	211
DIMENSIONS W/ CURB & ACCESSORIES - L x W x H (INCHES)	41x52x13
NOMINAL CAPACITY (TONS)	3.00
COOLING CAPACITY - RATED (BTU/H)	36,000
REFRIGERANT TYPE	R454B
COMPRESSOR QUANTITY	1
EFFICIENCY	
SEER	20.3
ELECTRICAL DATA	
VOLTAGE - PH	208 - 1
MCA	34
MOCP	56
NOTES	1,2,3,4

NOTES:
1. DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.
2. UNIT TO BE MOUNTED ON EXISTING EXTERIOR METAL SUPPORTS.
3. REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS.
4. SYSTEM REQUIRES LOW AMBIENT AIR COOLING OPERATION (-20 °F), PROVIDE LOW AMBIENT WIND BAFFLES.

EQUIPMENT CONNECTION SCHEDULE - ORAN PAPE

ABBREVIATIONS:
1 NEMA 1 ENCLOSURE; 3R NEMA 3R ENCLOSURE; CB CIRCUIT BREAKER IN PANEL; FAR FIRE ALARM SHUTDOWN RELAY; FDS FUSED DISCONNECT SWITCH, HEAVY DUTY; INT INTEGRAL WITH EQUIPMENT FROM FACTORY; NFD NON-FUSED DISCONNECT SWITCH, HEAVY...; ST SHUNT TRIP; TS TOGGLE SWITCH

NOTES:
1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL...
2. REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE...
3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R OUTDOORS.
4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

	ELECTRICAL CHARACTERISTICS					DISCONNECT				
TAG	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	REMARKS
SSI-1	208 V	1	-	-	1	NFD	30	1	-	-
SSO-1	208 V	1	-	-	34	NFD	60	3R	-	-

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,...
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 FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: ERIC HEYNEN

TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	DRIVER TYPE	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
EM	HUBBELL DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT REQUIRED	WHITE	300	LED	LED - 4000K	120 V	2 VA	SURE-LITES, LIGHTALARMS, LITHONIA
F1	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS, MULTI-VOLT REQUIRED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F2	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	SAME AS F1 BUT WALL MOUNTED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F3	ALPHABET	NU4E4-RD-SW-15LM-3 5K-90-60D-CL-WH-WH-RET-UNV	4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN SPACE	WHITE	1500	LED	LED - 3500K	120 V	16 VA	GOTHAM, PORTFOLIO

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Key Plan

Revision	Description	Date

OPN Project No.
24850000

Sheet Issue Date
BID SET 03/14/2025

Sheet Name
ELECTRICAL/MECHANICAL GENERAL NOTES & SYMBOLS ORAN PAPE

ME000.2

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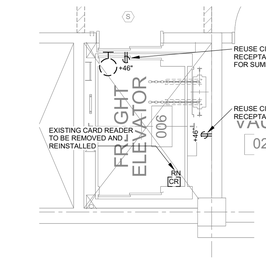
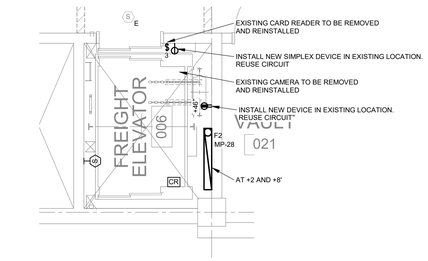


2 ORAN PAPE LOWER LEVEL - DEMO
1/4" = 1'-0"



1 ORAN PAPE LOWER LEVEL
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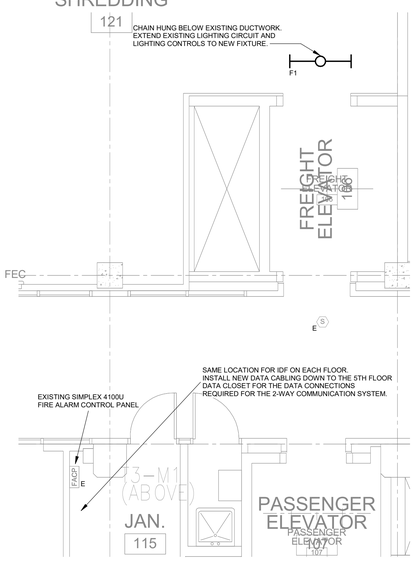


3 ORAN PAPE LEVEL 1
1/4" = 1'-0"

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 CEILINGS TILES DAMAGED DURING DEMOLITION.
   d. KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECCESARY 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

POWER GENERAL NOTES

A. 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.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

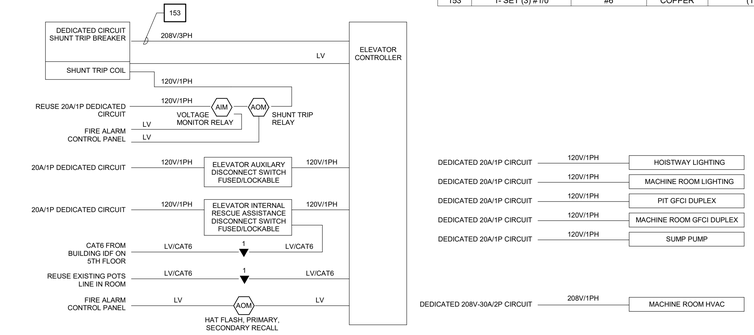
LIGHTING GENERAL NOTES

A. 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, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT

B. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

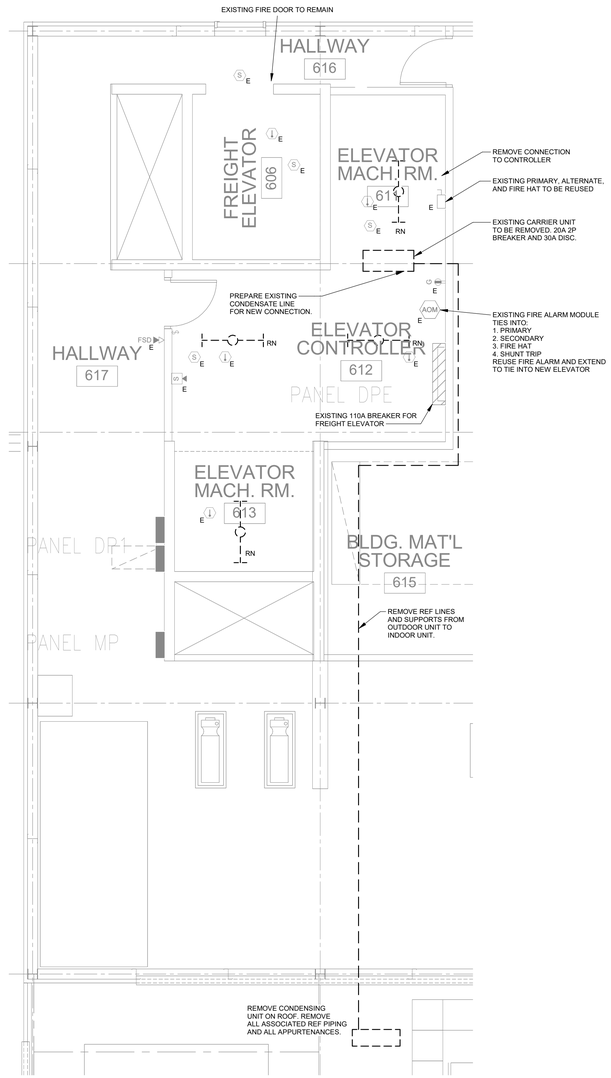
FEEDER SCHEDULE

TAG	PHASE	GROUND	CONDUCTOR MATERIAL	CONDUIT
103	1- SET (3) #3	#8	COPPER	(1) 1"
153	1- SET (3) #1/0	#6	COPPER	(1) 2"

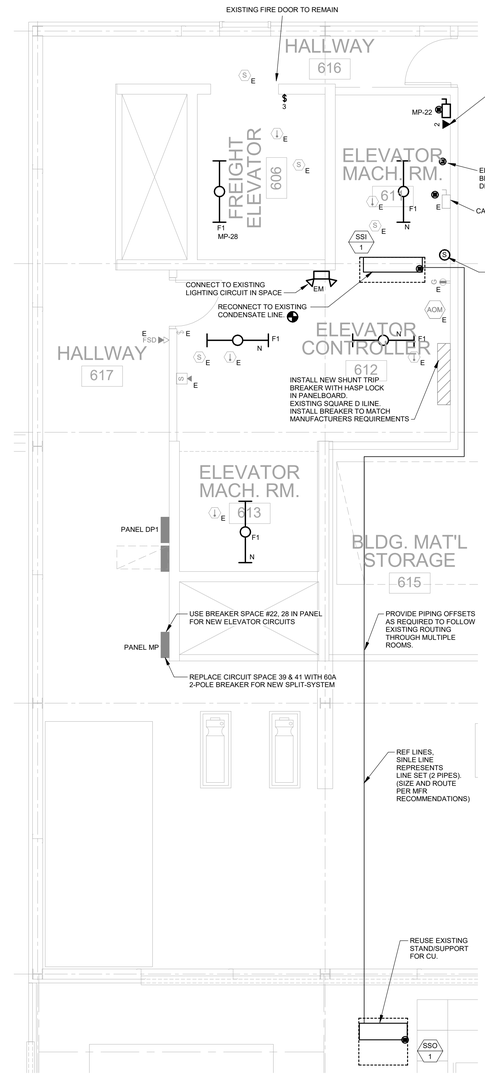


TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

7 ELEVATOR SYSTEM DETAIL
NOT TO SCALE



5 ORAN PAPE PENTHOUSE FLOOR - DEMO
1/4" = 1'-0"



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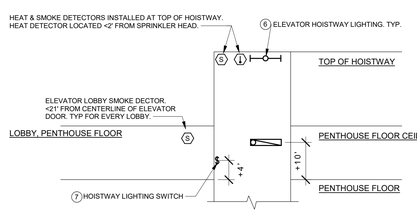
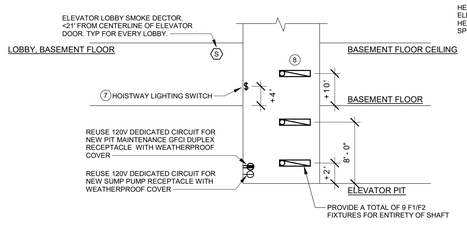
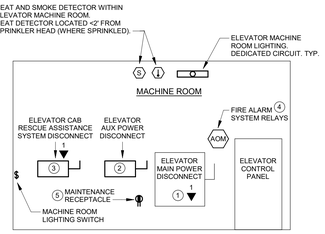




TYPICAL ELEVATOR HOISTWAY ELEVATION



TYPICAL ELEVATOR MACHINE ROOM

KEY NOTES:

1. FUSED, LOCKABLE 100A MAIN DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR MAIN POWER. PROVIDED WITH NO/NC LOW VOLTAGE CONTACTS.
2. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILIARY LIGHTING/VENTILATION,
3. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
4. FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.
5. DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO DISCONNECTS.
6. 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.
7. 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
8. PROVIDE A TOTAL OF 9 F1/F2 LIGHTING FIXTURES FOR SHAFT.

6 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

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Key Plan

Revision	Description	Date

OPN Project No
24850000

Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
ELECTRICAL/MECHANICAL ORAN PAPE

Sheet Number
ME101.2

PROJECT LOCATION MAP

SHEET INDEX

APPLICABLE CODE INFORMATION

THE PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

2015 INTERNATIONAL BUILDING CODE

ACCESSIBILITY - DIVISION 7 of IOWA STATE BUILDING CODE, IOWA STATE ACCESSIBILITY CODE 2015 IBC and ANSI A117.1 - 2009 EDITION

2015 INTERNATIONAL MECHANICAL CODE

2015 INTERNATIONAL FIRE CODE

2011 NATIONAL ELECTRICAL CODE

2015 INTERNATIONAL EXISTING BUILDING 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. Fire resistance rated construction is not required at the elevator machine room per IBC 3005.4 Exception 2.
IBC Chaper 7 - Fire and Smoke Protection Features
New construction is limited and existing construction is not being modified.
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.
IBE 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 is not required per 72.13(3).
NFPA-13 Chapter 8 - Section 8.15.5
Building is not fully sprinklered. In accordance with NFPA 13-2013, sprinkler coverage in not required for the existing elevator maching room, nor the shaft (traction elevator). A sprinkler is not required a the top of the hoistway due to compliance with 8.15.5.6.

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AG001.3

1 LEVEL 2 FLOOR PLAN - CODE PLAN

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Key Plan

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24850000

Sheet Issue Date
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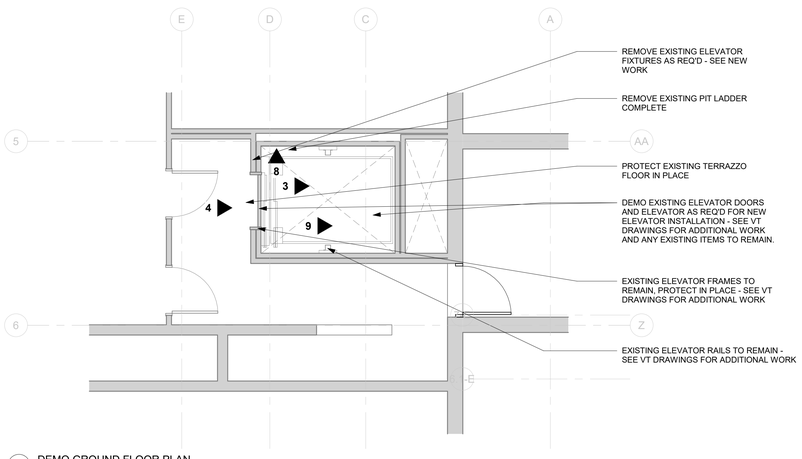
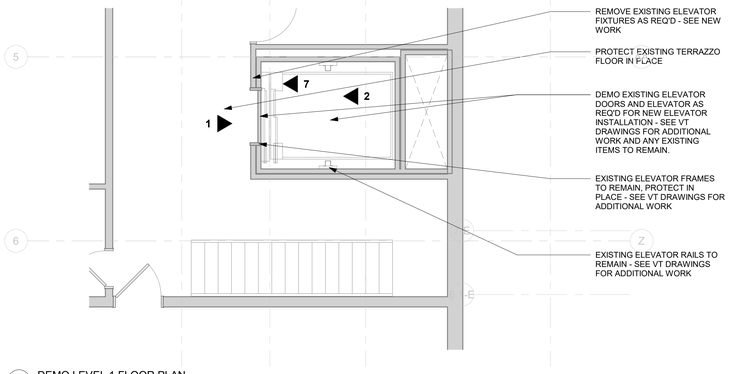
Sheet Name
SITE LOGISTICS PLAN

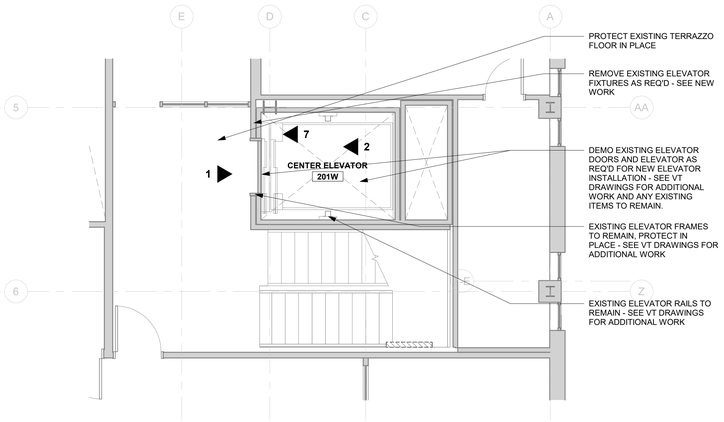
Sheet Number
AG002.3



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



H2 DEMO LEVEL 1 FLOOR PLAN
1/4" = 1'-0"



A2 DEMO LEVEL 2 FLOOR PLAN
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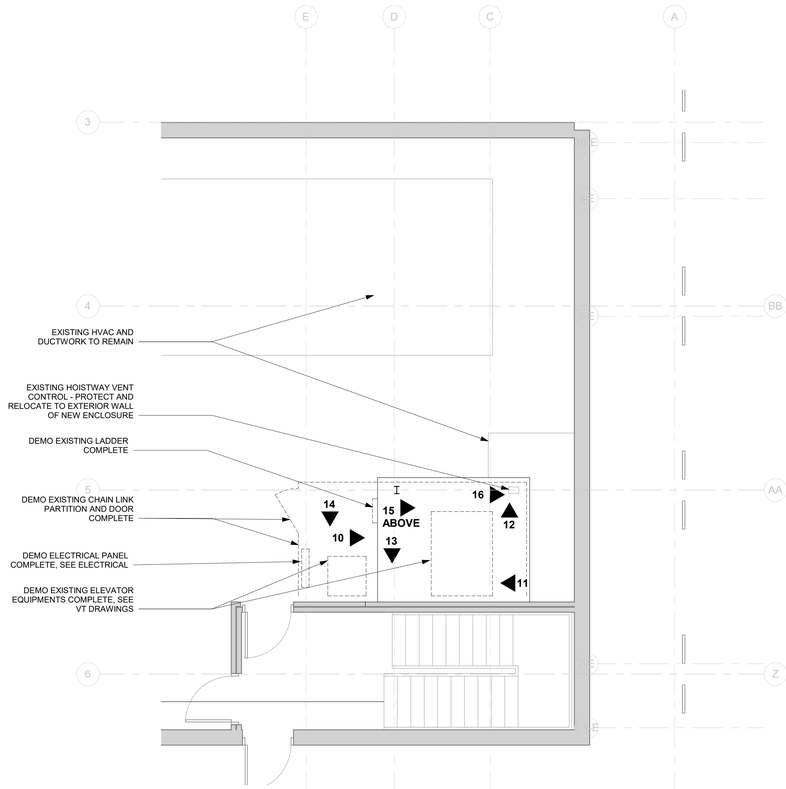
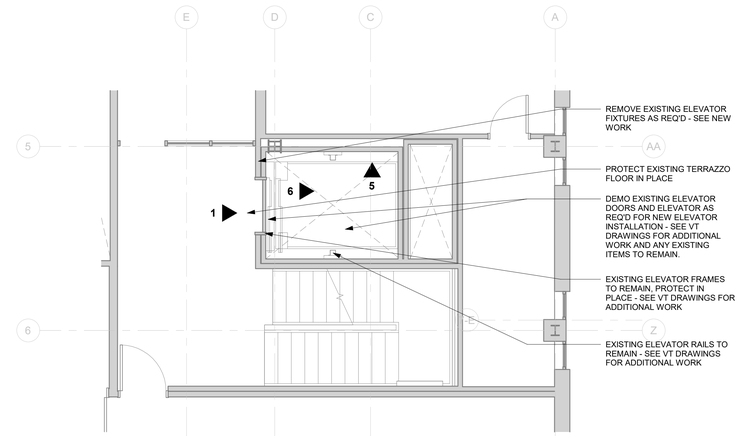


H10 DEMO PENTHOUSE FLOOR PLAN
1/4" = 1'-0"



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

GENERAL NOTES

1. 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 CM IMMEDIATELY.
2. REMOVE LOOSE PAINT AND MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES.
3. 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.
4. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
5. PATCH AND REPAIR ALL EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION OR PRIOR USE.
6. PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED.
7. 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.
8. 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.
9. EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL DEMOLITION ACTIVITIES.
10. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES.
11. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
12. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION.
13. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND/OR REGULATORY REQUIREMENTS.
15. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPING SYSTEM.
16. ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM ARE 2-HOUR FIRE RESISTANCE RATED.

DEMOLITION LEGEND

- DENOTES FLOOR AREA REQUIRING PROTECTION DURING CONSTRUCTION
- DENOTES EQUIPMENT OR BUILDING ELEMENT TO BE DEMOLISHED AND/OR MODIFIED

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Key Plan

Revision | Date

OPN Project No
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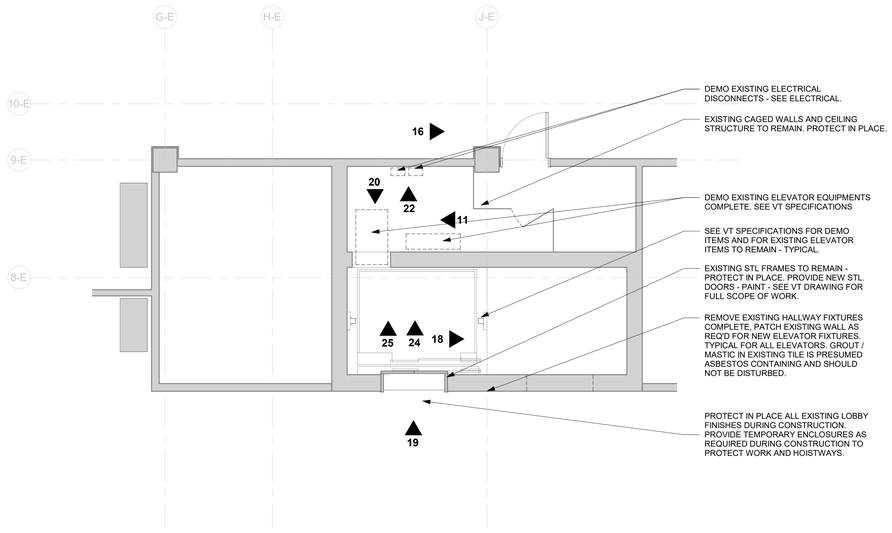
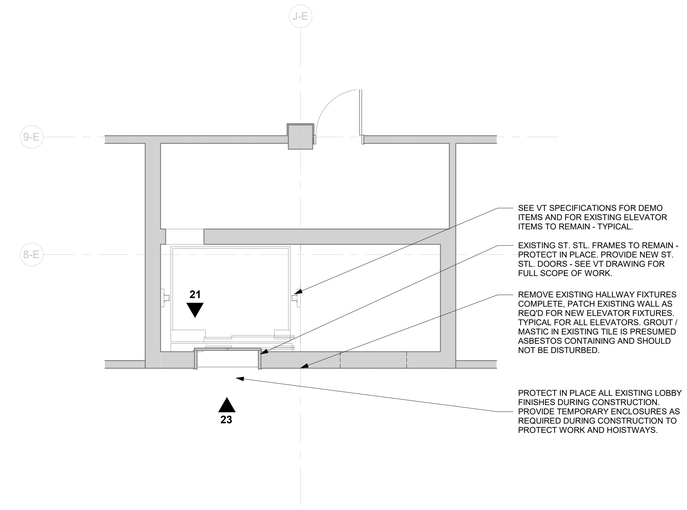
DEMO PLANS

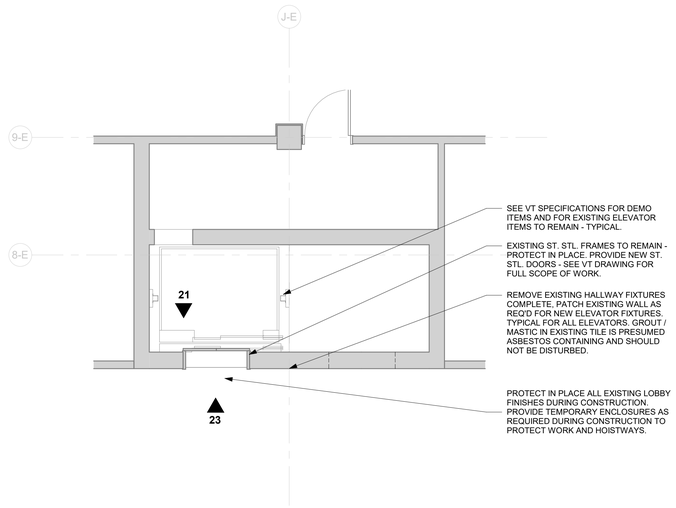
Sheet Number
AD100.3



4 DEMO GROUND FLOOR PLAN - EAST



1 DEMO LEVEL 1 FLOOR PLAN - EAST



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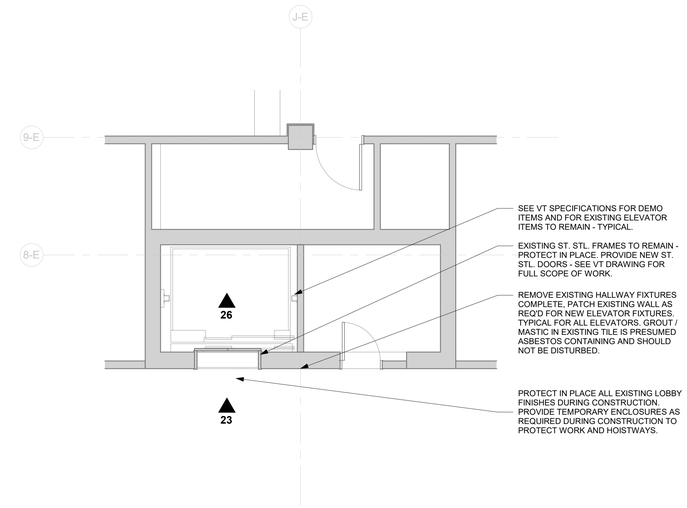

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Key Plan

Revision Date

OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

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DEMO PLANS

Sheet Number
AD101.3

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING STL FRAMES TO REMAIN - PROTECT IN PLACE - PAINT. PROVIDE NEW STL DOORS, COLOR TO MATCH - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE AND REPLACE EXISTING SIGNAGE.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. NEW ELEVATOR FIXTURES SHOULD COMPLETELY COVER EXISTING CONDITION.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

1 IMAGE 1

PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE ELEVATIONS. MAINTAIN EXISTING FLOOR DESIGNATIONS.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.

2 IMAGE 2

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

REMOVE EXISTING LADDER COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS.

3 IMAGE 3

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING STL FRAMES TO REMAIN - PROTECT IN PLACE - PAINT. PROVIDE NEW STL DOORS, COLOR TO MATCH - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE AND REPLACE EXISTING SIGNAGE.

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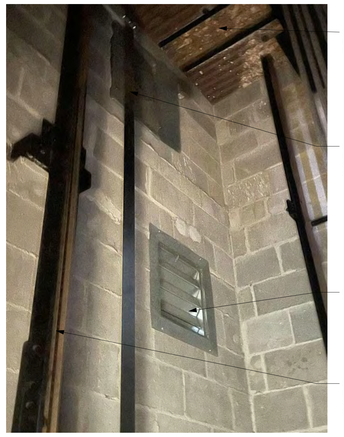
4 IMAGE 4



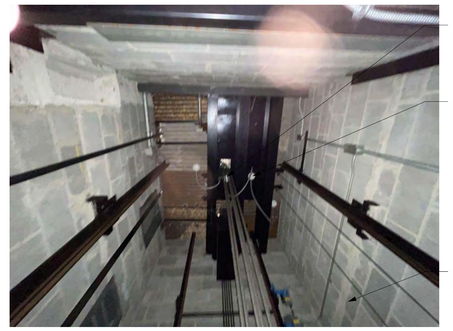
SEE ELECTRICAL FOR DETECTION REQUIREMENTS.

DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

EXISTING SHAFT VENTING TO REMAIN.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

5 IMAGE 5



DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

SEE ELECTRICAL FOR DETECTION REQUIREMENTS.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

6 IMAGE 6

PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE ELEVATIONS. MAINTAIN EXISTING FLOOR DESIGNATIONS.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.

7 IMAGE 7

DEMO EXISTING ELEVATOR EQUIPMENT - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

EXISTING SHAFT PATCHING TO REMAIN - PROVIDE SHEET METAL COVER TO ELIMINATE POCKET.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

8 IMAGE 8

EXISTING SHAFT VENTING TO REMAIN.

DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

SEE ELECTRICAL FOR SHAFT LIGHTING REQUIREMENTS.

9 IMAGE 9

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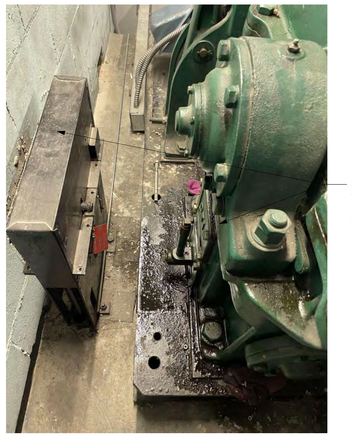
PANNING TO REMAIN ABOVE. PROVIDE NEW 2 HR GYPSUM ENCLOSURE AROUND MACHINE ROOM.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

NEW OSHA APPROVED ACCESS LADDER - LADDER RAIL TO BE WITHIN 4" OF ADJACENT WALL. PROVIDE NEW HM PIPE GUARDRAIL - RAIL TO BE 42" TALL 2-PIPE, 1-1/2" DIA. - HM PIPE PAINT - SIDE WALL MOUNT TO ENCLOSURE. INSTALL TO PROVIDE NO LARGER THAN 4" GAP AT WALL OR LADDER.

DEMO EXISTING CHAIN LINK FENCE COMPLETE.

10 IMAGE 10



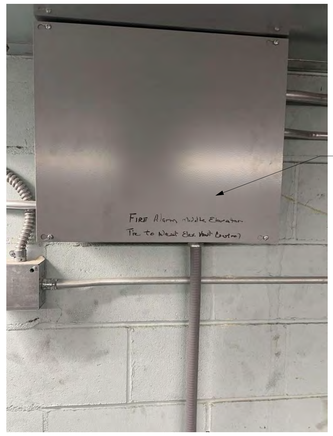
SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

11 IMAGE 11

EXISTING SHAFT VENTING TO REMAIN. RELOCATE CONTROLLER TO BE ACCESSIBLE OUTSIDE THE NEW ELEVATOR MACHINE ROOM.

DEMO EXISTING CHAIN LINK FENCE COMPLETE.

12 IMAGE 12



EXISTING SHAFT VENTING CONTROL PANEL TO REMAIN - COORDINATE LOCATION WITH NEW ELEVATOR EQUIPMENT - SEE ELECTRICAL.

13 IMAGE 13

PANNING TO REMAIN, PROVIDE NEW 2 HR GYPSUM ENCLOSURE AROUND MACHINE ROOM.

EXISTING SHAFT VENTING CONTROL PANEL TO REMAIN - COORDINATE LOCATION WITH NEW ELEVATOR EQUIPMENT - SEE ELECTRICAL.

ELECTRICAL DISCONNECT - SEE ELECTRICAL.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

DEMO EXISTING CHAIN LINK FENCE COMPLETE.

14 IMAGE 14

PANNING TO REMAIN, PROVIDE NEW 2 HR GYPSUM ENCLOSURE AROUND MACHINE ROOM.

ELECTRICAL LIGHTING - SEE ELECTRICAL.

EXISTING SHAFT VENTING CONTROL PANEL TO REMAIN - COORDINATE LOCATION WITH NEW ELEVATOR EQUIPMENT - SEE ELECTRICAL.

DEMO EXISTING CHAIN LINK FENCE COMPLETE.

15 IMAGE 15

EXISTING SHAFT VENTING TO REMAIN. RELOCATE CONTROLLER TO BE ACCESSIBLE OUTSIDE THE NEW ELEVATOR MACHINE ROOM.

DEMO EXISTING CHAIN LINK FENCE COMPLETE.

16 IMAGE 16

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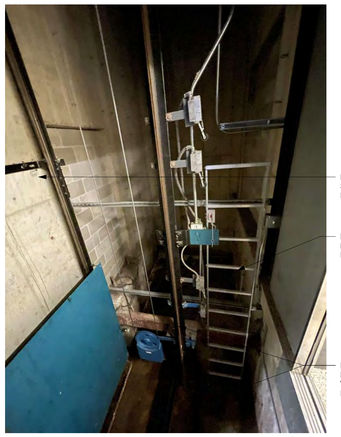
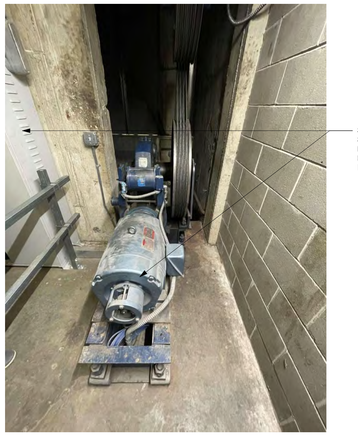
17 IMAGE 17



18 IMAGE 18

23 IMAGE 23

19 IMAGE 19



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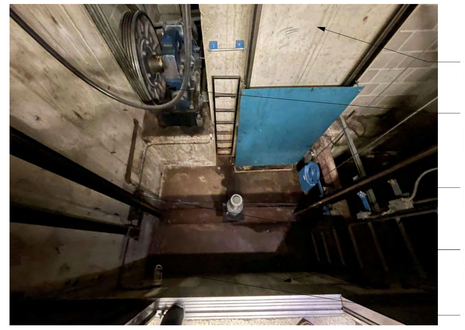

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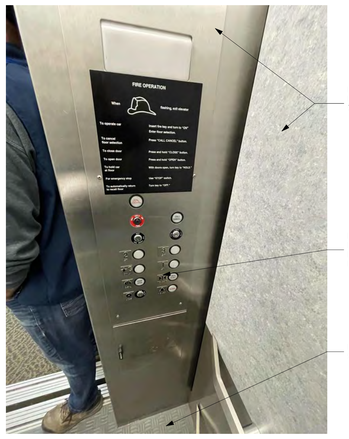

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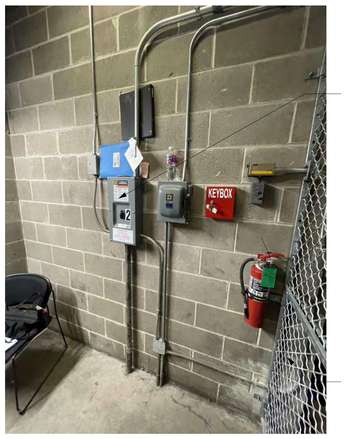

22 IMAGE 22

25 IMAGE 25

26 IMAGE 26

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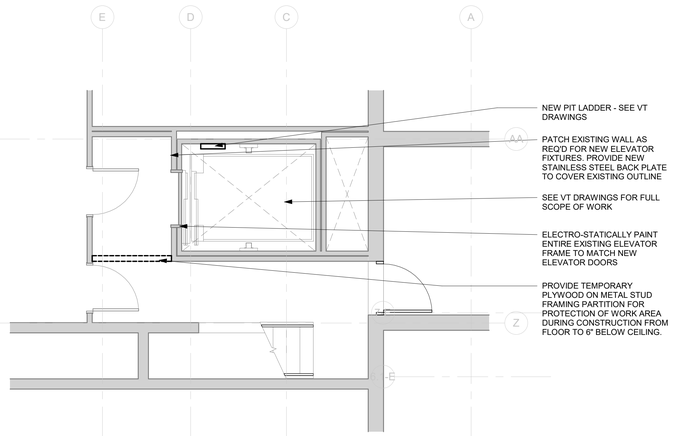
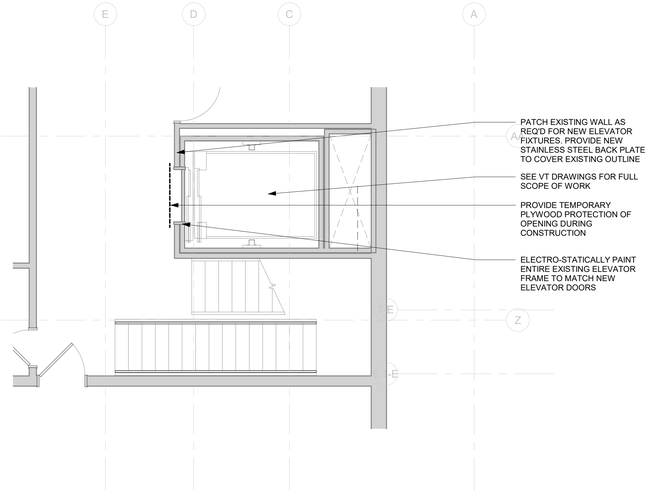
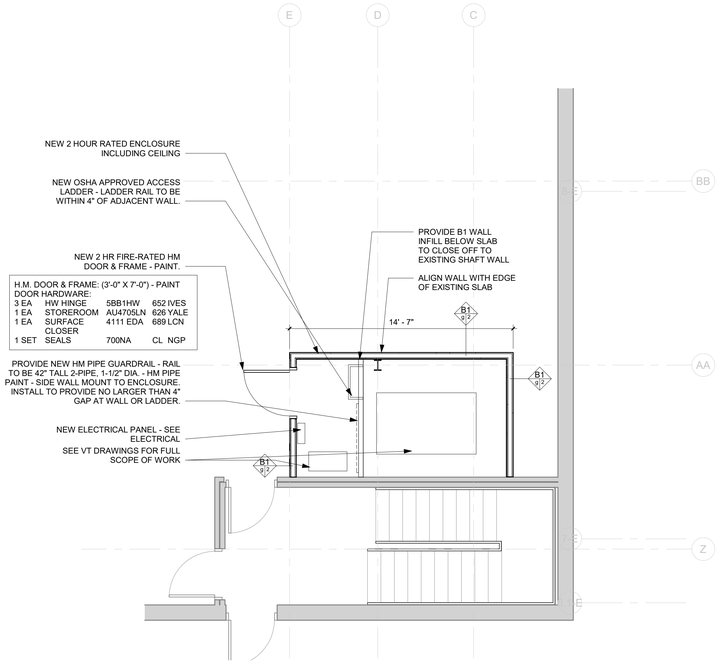


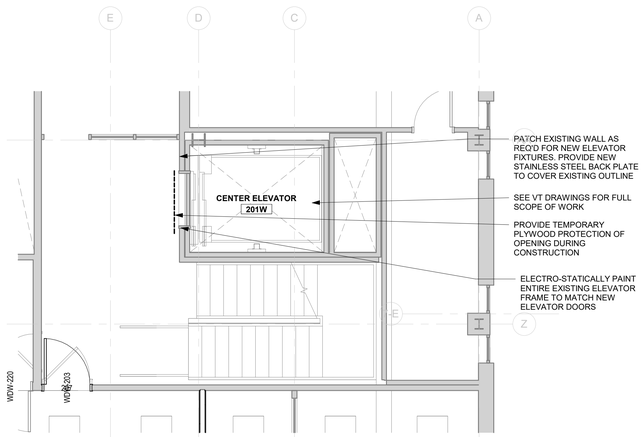
P2 GROUND FLOOR PLAN
1/4" = 1'-0"



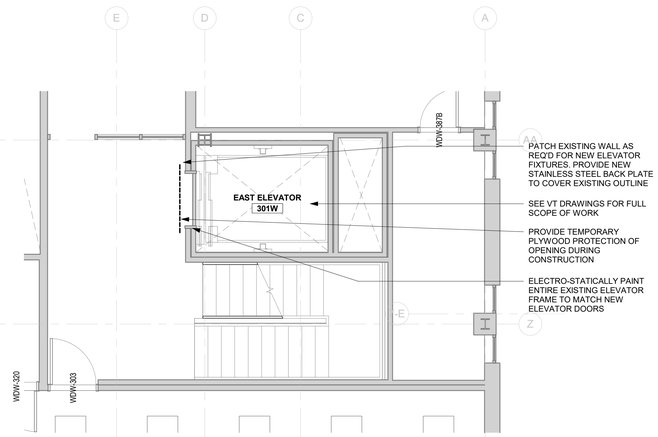
G2 LEVEL 1 FLOOR PLAN
1/4" = 1'-0"



G12 PENTHOUSE FLOOR PLAN
1/4" = 1'-0"



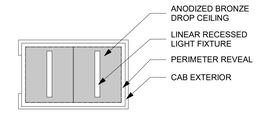
A2 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"



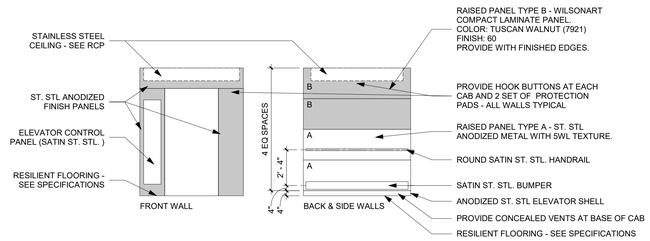
A10 LEVEL 3 FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

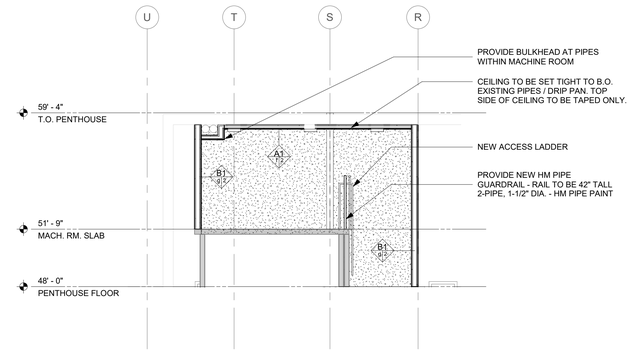
1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY 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.
6. ALL ROOF PENETRATIONS MUST FOLLOW ROOF MANUFACTURERS DETAILS AND MAINTAIN ROOFING WARRANTY
7. ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM ARE 2-HOUR FIRE RESISTANCE RATED.



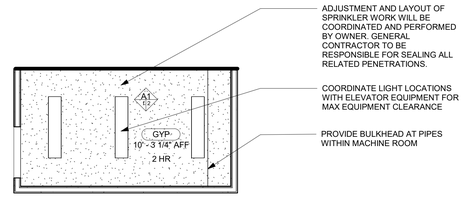
P17 ELEVATOR CAB CEILING



K17 ELEVATOR CAB ELEVATION



E17 MECHANICAL ROOM SECTION
1/4" = 1'-0"



A17 PENTHOUSE RCP
1/4" = 1'-0"

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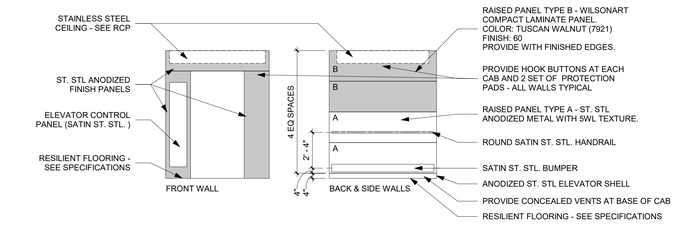
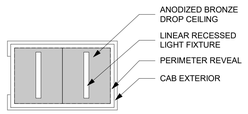
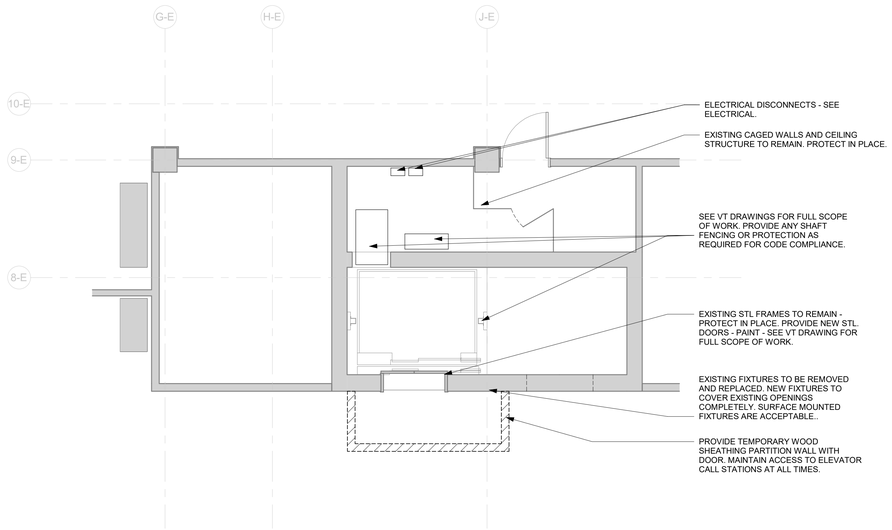


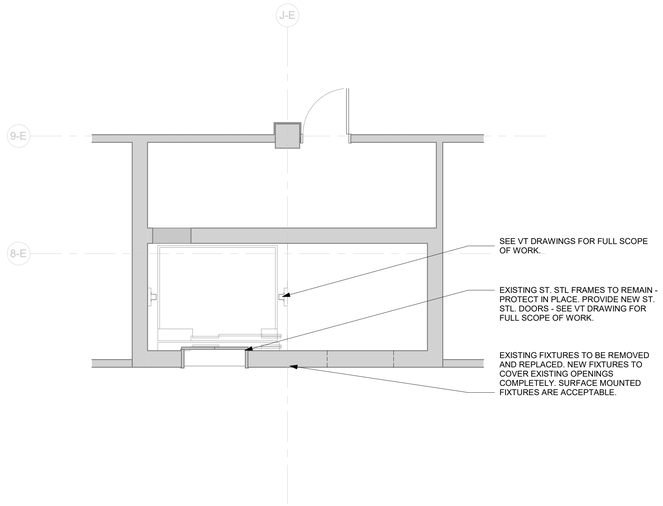
R3 ELEVATOR CAB ELEVATION (EAST)



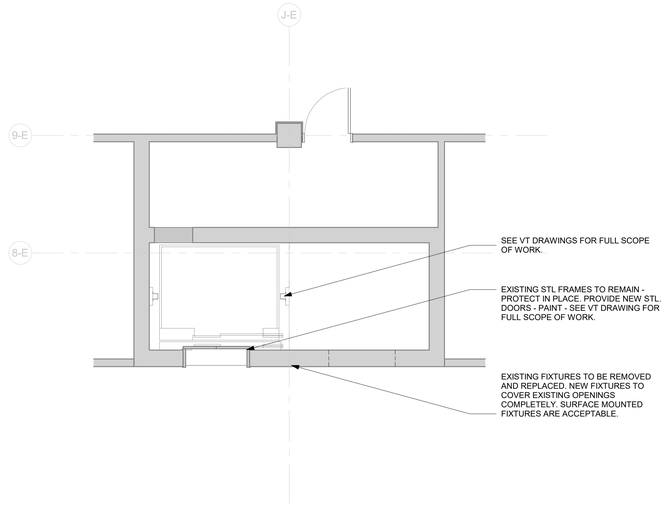
R11 ELEVATOR CAB CEILING (EAST)



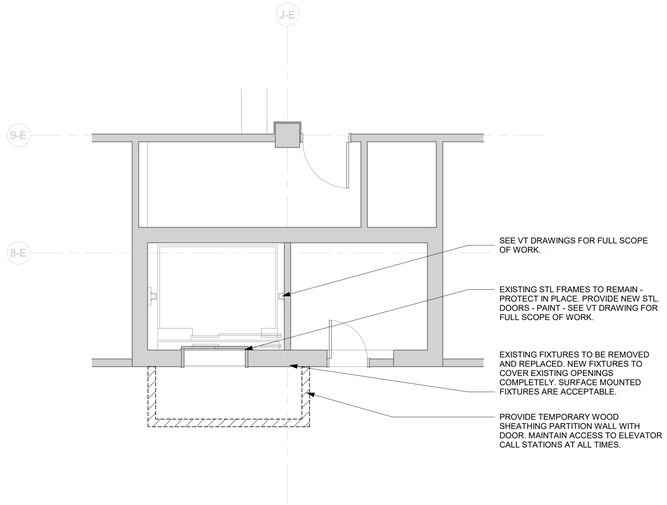
J3 GROUND FLOOR PLAN - EAST
1/4" = 1'-0"



J16 LEVEL 1 FLOOR PLAN - EAST
1/4" = 1'-0"



A2 LEVEL 2 FLOOR PLAN - EAST
1/4" = 1'-0"



A16 LEVEL 3 FLOOR PLAN - EAST
1/4" = 1'-0"

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MECHANICAL - GENERAL NOTES

1. 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.
2. INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
3. 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.
4. EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
5. COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
6. CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
7. 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.
8. PROVIDE WARRANTIES FOR ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS, PARTS ONLY, NON-PRORATED, FROM THE DATE OF OCCUPANCY OR SUBSTANTIAL COMPLETION, OR WHICHEVER OCCURS FIRST. THE WARRANTY SHALL COVER COMPRESSORS, EVAPORATORS, CONDENSER COILS, HIGH AND LOW SIDE PIPING, AND PIPING SPECIALTIES INCLUDING EXPANSION AND SOLENOID VALVES, RELIEF VALVES, FILTER-DRYER, AND SIGHT GLASSES. PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY DOES NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM THE OWNER'S ACCIDENT, IMPROPER OPERATION, OR FAILURE TO PROVIDE MAINTENANCE. WARRANTY COVERS DEFECTIVE MATERIAL AND INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

HVAC - NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. PROVIDE MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.
3. 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.
4. PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.
5. CONTINUE PIPE INSULATION THROUGH WALLS, FLOORS, AND CEILING PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED IN DUCTWORK.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

REFERENCE	SSI-1
MANUFACTURER	MITSUBISHI
MODEL #	PKA-A24
TYPE	WALL MOUNT
SERVES	HOOVER PENTHOUSE
WEIGHT (LBS)	46
DIMENSIONS - L x W x D (INCHES)	46x14x11
NOMINAL CAPACITY (TONS)	2.00
MAX UNIT AIRFLOW (CFM)	775
EXTERNAL STATIC PRESSURE (IN. W.G.)	0.2
COOLING CAPACITY - RATED (BTU/H)	24
SEER	21.1
REFRIGERANT TYPE	R454B
VOLTAGE - PH	208 - 1
ELECTRICAL DATA	
MCA	1.00
MOCP	SEE SSO SCHEDULE
NOTES	1 THROUGH 5

NOTES:
1. **PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C.**
2. **INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING INSTALLATION AND DISCONNECT BY E.C.**
3. **COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°FF, OUTDOOR: 95°F/75°F**
4. **PROVIDE FILTER WITH UNIT.**
5. **UNIT IS COOLING ONLY.**

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

REFERENCE	SSO-1
MANUFACTURER	MITSUBISHI
MODEL #	PUY-A24NHA7
SERVES	SSI-1
WEIGHT (LBS)	151
DIMENSIONS W/ CURB & ACCESSORIES - L x W x H (INCHES)	37x37x13
NOMINAL CAPACITY (TONS)	2.00
COOLING CAPACITY - RATED (BTU/H)	24,000
REFRIGERANT TYPE	R454B
COMPRESSOR QUANTITY	1
EFFICIENCY	
SEER	17.5
ELECTRICAL DATA	
VOLTAGE - PH	208 - 1
MCA	19
MOCP	26
NOTES	1,2,3,4

NOTES:
1. **DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.**
2. **UNIT TO BE MOUNTED ON EXTERIOR SIDEWALL. REFER TO INSTALLATION DETAIL ON PLANS.**
3. **REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS.**
4. **SYSTEM REQUIRES LOW AMBIENT AIR COOLING OPERATION (-20 °F), PROVIDE LOW AMBIENT WIND BAFFLES.**

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ELECTRICAL ABBREVIATIONS

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

GENERAL NOTES - ELECTRICAL

1. 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.
2. 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

1. INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
2. 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.
3. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
4. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
5. 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)
6. 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

1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
2. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
3. INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG –AMERICANS WITH DISABILITIES ACT.
4. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
5. 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

1. PROVIDE NORMAL WIRING DEVICES AS GRAY UNLESS OTHERWISE NOTED.
2. PROVIDE EMERGENCY WIRING DEVICES AS ORANGE UNLESS OTHERWISE NOTED.
3. PROVIDE DEVICES COVER PLATES AS STAINLESS STEEL MATCH WIRING DEVICES COLOR.
4. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
5. INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED.
6. AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

FIRE DETECTION & ALARM NOTES

1. INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
2. INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
3. FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
4. ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN ¾" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
5. ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER SPECIFICATION.

COMMUNICATION NOTES

1. REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT LOCATIONS.
2. INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

LIGHTING SYMBOLS

- RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
- ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
- SURFACE MOUNTED STRIP FIXTURE
- LINEAR PENDANT MOUNTED FIXTURE
- INDUSTRIAL STRIP LIGHT 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
- EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- $a — SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $3b — THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $Pc — PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $Dd — DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- S1 e — LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- ETD — EMERGENCY TRANSFER DEVICE

TECHNOLOGY RESPONSIBILITY MATRIX

PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI
COMMUNICATIONS - TELECOM SYSTEMS:			
ROUGH-IN, PATHWAYS AND SLEEVES			●
RACKS, FRAMES AND ENCLOSURES		REUSE EXISTING	
COPPER HORIZONTAL CABLING			●
DATA COMMUNICATIONS SWITCHES AND HUBS		REUSE EXISTING	
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			●
SECURITY - VIDEO SURVEILLANCE:			
ROUGH-IN, PATHWAYS AND SLEEVES	N/A	N/A	N/A
CAMERA(S)	N/A	N/A	N/A
HEAD END EQUIPMENT AND COMPONENTS	N/A	N/A	N/A
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)			●

● 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 APPERTUNANCES 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.
B.

GENERAL SYMBOLS

- CONDUIT SLEEVE
- CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
- CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
- J — JUNCTION BOX, CEILING OR FLOOR MOUNTED.
- JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
- # — KEYNOTE
- XXX / X — EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
- 1 / A101 SIM — DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE; SHEET REFERENCE
- 1 / A101 SIM — SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE; SHEET REFERENCE
- A101 Ref — INTERIOR ELEVATION DRAWING REFERENCE TAG
- 1 — DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNTED
- DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT
- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE.
- W — DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT
- 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
- SPD — SURGE PROTECTIVE DEVICE
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - RECESSED IN WALL
- DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

TEMPERATURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C

- (T) THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- (H) HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- (C) CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- (S) TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

EQUIPMENT CONNECTION SCHEDULE

ABBREVIATIONS:

1	NEMA 1 ENCLOSURE	INT	INTEGRAL WITH EQUIPMENT FROM FACTORY
3R	NEMA 3R ENCLOSURE	NFD	NON-FUSED DISCONNECT SWITCH, HEAVY DUTY
CB	CIRCUIT BREAKER IN PANEL	ST	SHUNT TRIP
FAR	FIRE ALARM SHUTDOWN RELAY	TS	TOGGLE SWITCH
FDS	FUSED DISCONNECT SWITCH, HEAVY DUTY		

NOTES:
1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL SYSTEMS.
2. REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY.
3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R OUTDOORS.
4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

	ELECTRICAL CHARACTERISTICS					DISCONNECT				
TAG	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	REMARKS
SSI-1	208 V	1	-	-	1	NFD	30	1	-	-
SSO-1	208 V	1	-	-	19	NFD	30	3R	-	-

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,..
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 FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: ERIC HEYNEN

TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	DRIVER TYPE	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
EM	HUBBELL DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS, MULTI-VOLT REQUIRED	WHITE	300	LED	LED - 4000K	120 V	2 VA	SURE-LITES, LIGHTALARMS, LITHONIA
F1	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS, MULTI-VOLT REQUIRED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F2	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	SAME AS F1 BUT WALL MOUNTED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F3	ALPHABET	NU4E4-RD-SW-15LM-3-5K-90-60D-CL-WH-WH-RET-UNV	4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN SPACE	WHITE	1500	LED	LED - 3500K	120 V	16 VA	GOTHAM, PORTFOLIO

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Key Plan

Revision	Description	Date

OPN Project No.
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Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
ELECTRICAL/MECHANICAL GENERAL NOTES & SYMBOLS IWD

ME000.3

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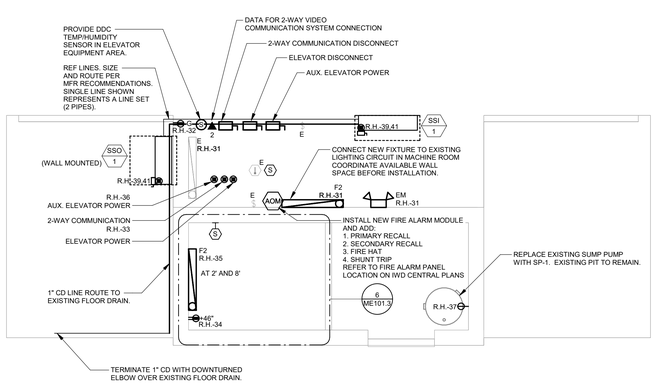
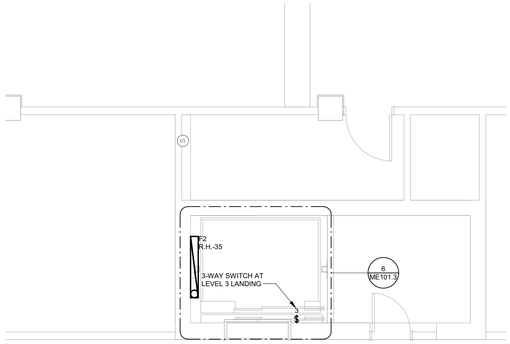


1 IWD EAST BASEMENT
1/4" = 1'-0"

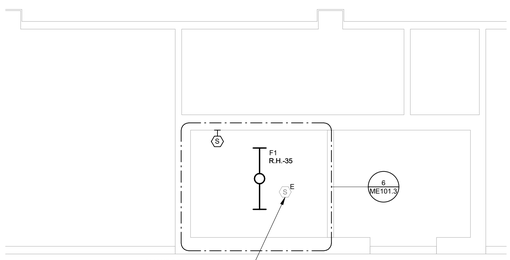
SUMP PUMP SCHEDULE

REFERENCE	SP-1
MANUFACTURER	HYDOMATIC
MODEL #	SPD
SERVES	ELEVATOR PIT
CONFIGURATION	SINGLE
GPM	50
BASIN TYPE	EXISTING CONCRETE
BASIN SIZE (DIAM x HEIGHT)	EXISTING 36x48
FT HEAD	25
HP	1
VOLTAGE/PH	120/1
NOTES	1,2,3

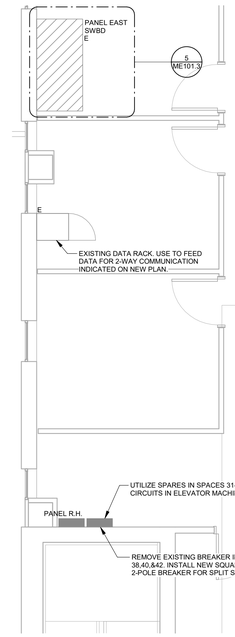
NOTES:
1. PROVIDE WITH WATERPROOF POWER CABLE, VERIFY LENGTH. MINIMUM 20 FT.
2. PROVIDE WITH INTEGRAL FLOAT SWITCH OR PIGGY BACK FLOAT.
3. INSTALL TO MEET STATE ELEVATOR CODE REQUIREMENTS.

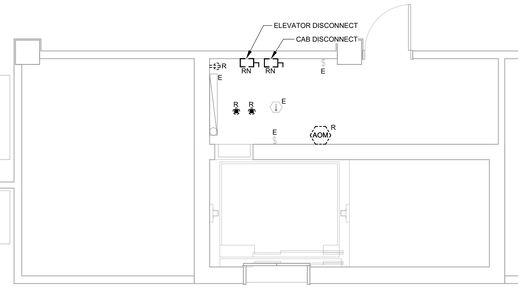


2 IWD THIRD FLOOR EAST
1/4" = 1'-0"



3 IWD TOP OF HOISTWAY EAST
1/4" = 1'-0"

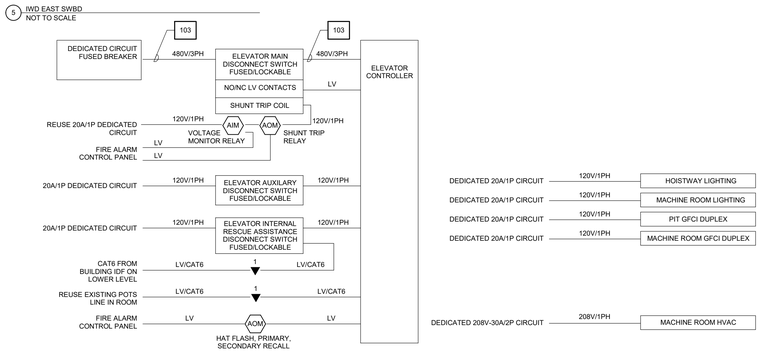




4 IWD EAST BASEMENT - DEMO
1/4" = 1'-0"

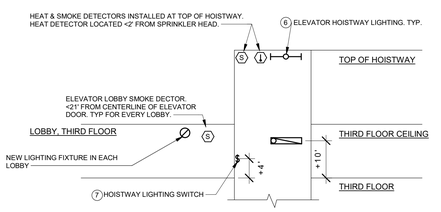
FEEDER SCHEDULE				
TAG	PHASE	GROUND	CONDUCTOR MATERIAL	CONDUIT
103	1- SET (3) #3	#8	COPPER	(1) 1"
153	1- SET (3) #1/0	#6	COPPER	(1) 2"

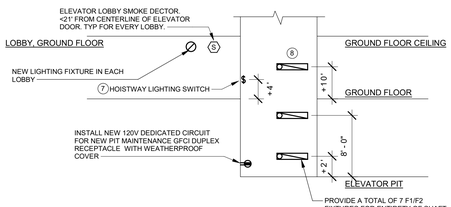
5 IWD EAST SWBD
NOT TO SCALE



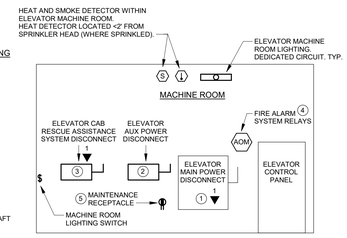
TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

7 ELEVATOR SYSTEM DETAIL
NOT TO SCALE





TYPICAL ELEVATOR HOISTWAY ELEVATION



TYPICAL ELEVATOR MACHINE ROOM

6 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

KEY NOTES:

1. FUSED, LOCKABLE 100A MAIN DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR MAIN POWER. PROVIDED WITH NO/NC LOW VOLTAGE CONTACTS.
2. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILIARY LIGHTING/VENTILATION,
3. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
4. FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.
5. DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO DISCONNECTS.
6. 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.
7. 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
8. PROVIDE A TOTAL OF 7 F1/F2 LIGHTING FIXTURES FOR SHAFT.

LIGHTING GENERAL NOTES

A. 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, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT

B. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

POWER GENERAL NOTES

A. 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.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

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 CEILINGS TILES DAMAGED DURING DEMOLITION.
   d. KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECCESARY 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

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Key Plan

Revision	Description	Date

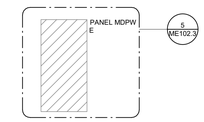
OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

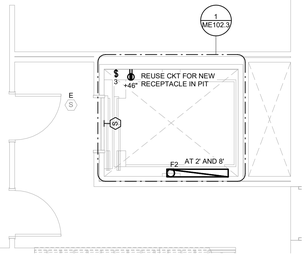
Sheet Name
ELECTRICAL/MECHANICAL IWD EAST

Sheet Number
ME101.3

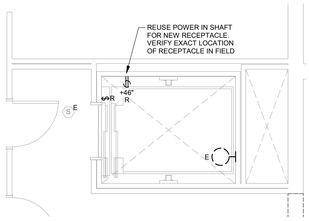
PRINTED: 3/14/2025 3:41:30 PM



E
FACP
EXISTING SIMPLEX 4100ES FIRE ALARM PANEL ON GROUND FLOOR



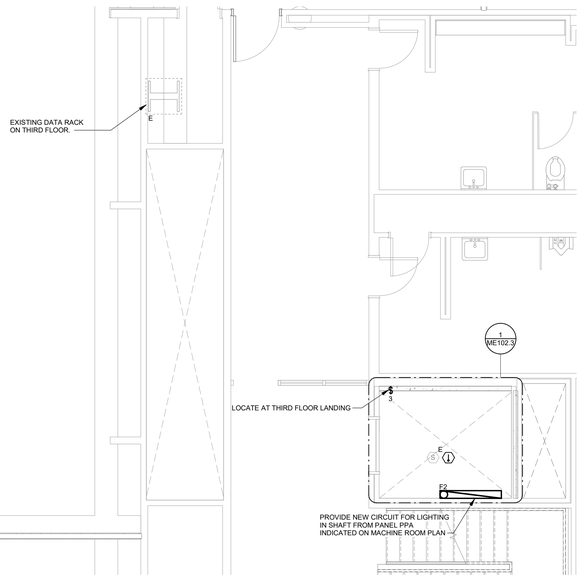
3 IWD GROUND FLOOR CENTRAL
1/4" = 1'-0"



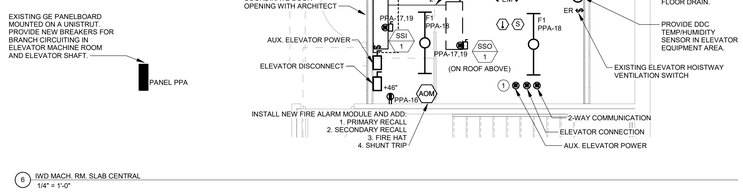
8 IWD GROUND FLOOR CENTRAL - DEMO
1/4" = 1'-0"

INSTALL NEW 100A SHUNT TRIP BREAKER, RE-FEED TO NEW EQUIPMENT CONNECTIONS IN MACHINE ROOM INDICATED ON PLAN.

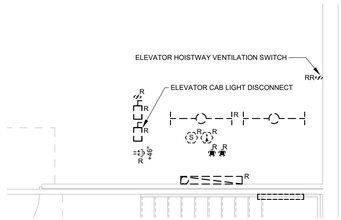
5 IWD CENTRAL MDPW
NOT TO SCALE



4 IWD THIRD FLOOR CENTRAL
1/4" = 1'-0"



6 IWD MACH. RM. SLAB CENTRAL
1/4" = 1'-0"



7 IWD MACH. RM. SLAB CENTRAL - DEMO
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- 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 FIELD VERIFY LOCATIONS OF ELEVATOR CONNECTION, AUX. POWER CONNECTION, AND 2-WAY COMMUNICATION CONNECTION.

LIGHTING GENERAL NOTES

A. 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, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT

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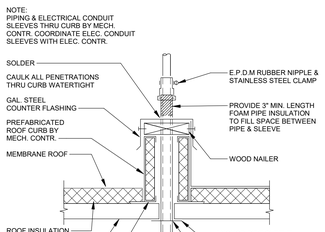
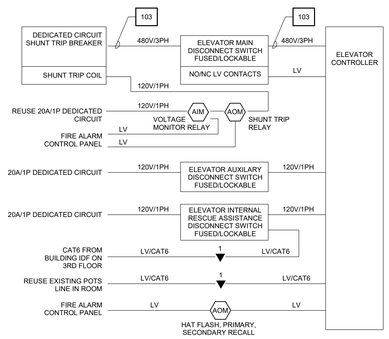


9 REFRIGERANT CURBS DETAIL
NTS



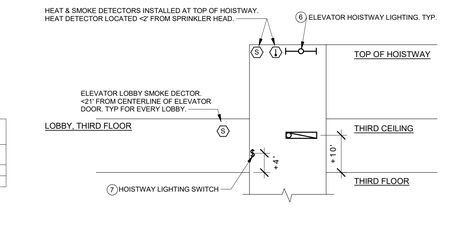
TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

2 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

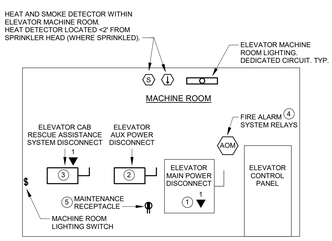
FEEDER SCHEDULE

TAG	PHASE	GROUND	CONDUCTOR MATERIAL	CONDUIT
103	1- SET (3) #3	#8	COPPER	(1) 1"
153	1- SET (3) #1/0	#6	COPPER	(1) 2"

DEDICATED 20A/1P CIRCUIT	120V/1PH	HOISTWAY LIGHTING
DEDICATED 20A/1P CIRCUIT	120V/1PH	MACHINE ROOM LIGHTING
DEDICATED 20A/1P CIRCUIT	120V/1PH	PIT GFCI DUPLEX
DEDICATED 20A/1P CIRCUIT	120V/1PH	MACHINE ROOM GFCI DUPLEX
DEDICATED 208V-30A/2P CIRCUIT	208V/1PH	MACHINE ROOM HVAC



TYPICAL ELEVATOR HOISTWAY ELEVATION



TYPICAL ELEVATOR MACHINE ROOM

KEY NOTES:

1. FUSED, LOCKABLE 100A MAIN DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR MAIN POWER. PROVIDED WITH NO/NC LOW VOLTAGE CONTACTS.
2. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILARY LIGHTING/VENTILATION.
3. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
4. FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.
5. DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO DISCONNECTS.
6. 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.
7. 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
8. PROVIDE A TOTAL OF 7 F1/F2 LIGHTING FIXTURES FOR SHAFT.

1 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

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Key Plan

Revision	Description	Date

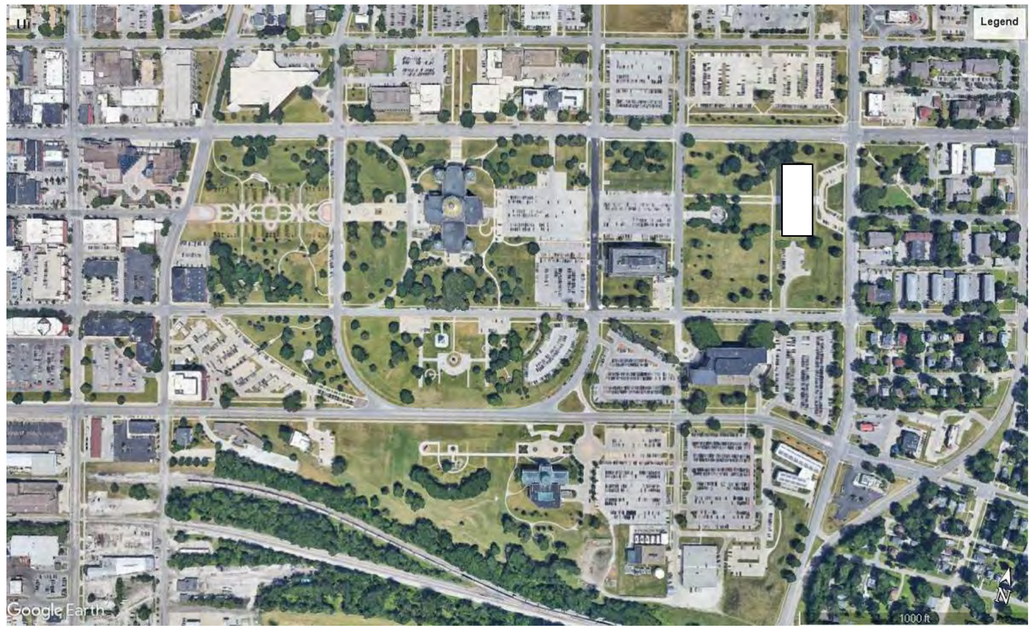
OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
ELECTRICAL/MECHANICAL IWD CENTRAL

Sheet Number
ME102.3

PROJECT LOCATION MAP



SHEET INDEX

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

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.
IBE 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 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 not be provided in the new elevator machine room nor at the bottom of the elevator pit (traction elevators). A sprinkler is not required a the top of the hoistway due to compliance with 8.15.5.6.

STATE OF IOWA - GRIMES BUILDING ELEVATOR MOD.

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VERTICAL TRANSPORTATION
LERCH BATES
706 SECOND AVENUE SOUTH
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03/14/2025

BID SET

AG001.4

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OVERALL SITE PLAN

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109 SE 13TH STREET
DES MOINES, IA 50319

Project
GRIMES BUILDING ELEVATOR MOD.
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DES MOINES, IA 50319

CONSTRUCTION MANAGER
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Key Plan

Revision Description Date

OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
SITE LOGISTICS PLAN

Sheet Number
AG002.4

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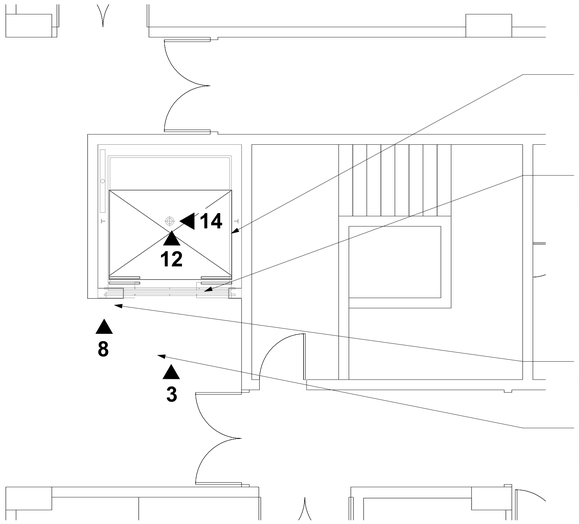


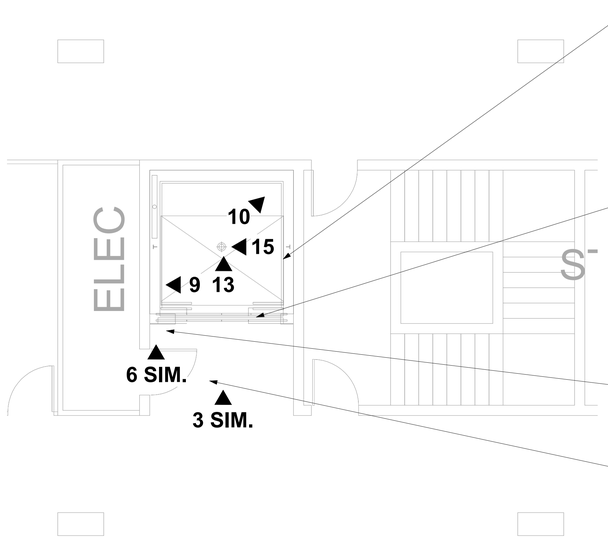
SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING STL FRAMES TO REMAIN - PROTECT IN PLACE - PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE, PATCH EXISTING WALL AS REQ'D FOR NEW ELEVATOR FIXTURES.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

N2 LOWER LEVEL DEMO FLOOR PLAN
1/4" = 1'-0"



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N12 LEVEL 3 DEMO FLOOR PLAN
1/4" = 1'-0"

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING STL FRAMES TO REMAIN - PROTECT IN PLACE - PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

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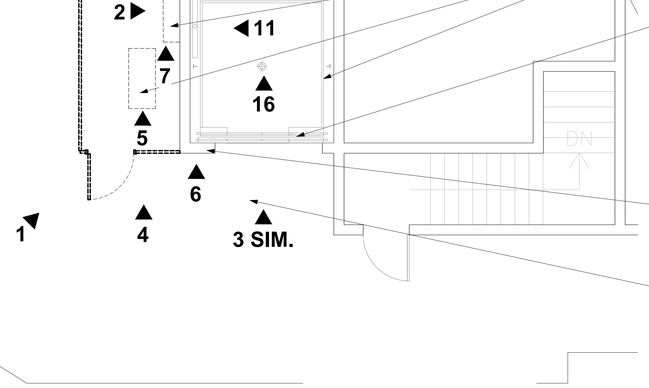
F2 LEVEL 1 DEMO FLOOR PLAN
1/4" = 1'-0"



DEMO EXISTING ELEVATOR MACHINE ROOM CAGE COMPLETE.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN. CONTRACTOR TO MAKE SURE THAT EXISTING PHONE LINE IS MAINTAINED FOR REUSE IN MODERNIZATION.

EXISTING STL FRAMES TO REMAIN - PROTECT IN PLACE - PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE, PATCH EXISTING WALL AS REQ'D FOR NEW ELEVATOR FIXTURES.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

F12 PENTHOUSE DEMO FLOOR PLAN
1/4" = 1'-0"

EXISTING STL FRAMES TO REMAIN - PROTECT IN PLACE - PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE, PATCH EXISTING WALL AS REQ'D FOR NEW ELEVATOR FIXTURES.

A2 LEVEL 2 DEMO FLOOR PLAN
1/4" = 1'-0"

GENERAL NOTES

1. 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.
2. REMOVE LOOSE PAINT AND MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES.
3. 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.
4. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
5. PATCH AND REPAIR ALL EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION OR PRIOR USE.
6. PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED.
7. 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.
8. 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.
9. EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL DEMOLITION ACTIVITIES.
10. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES.
11. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
12. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION.
13. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND/OR REGULATORY REQUIREMENTS.

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Key Plan

Revision	Description	Date

OPN Project No.
24850000

Sheet Issue Date
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Sheet Name
DEMO FLOOR PLANS

Sheet Number
AD100.4

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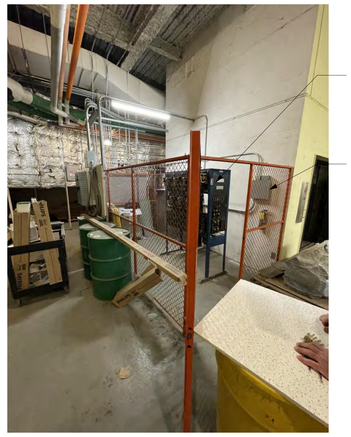


DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

REMOVE AND PROVIDE NEW ELEVATOR MACHINE ROOM CAGE COMPLETE WITH NEW ENCLOSURE CAGE WITH LID.

1 IMAGE 1

REMOVE AND PROVIDE NEW ELEVATOR MACHINE ROOM CAGE COMPLETE WITH NEW ENCLOSURE CAGE WITH LID.

ELECTRICAL DISCONNECT - SEE ELECTRICAL.

DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

ELEVATOR CONTRACTOR RESPONSIBLE FOR REMOVAL AND NEW SHAFT OPENING FENCING AS REQUIRED TO MEET CODE REQUIREMENTS.

2 IMAGE 2

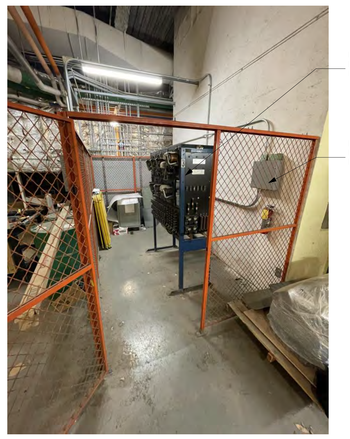
SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING STL FRAMES TO REMAIN - PROTECT IN PLACE - PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE, PROVIDE NEW SURFACE MOUNTED FIXTURES. PATCH EXISTING WALL AS REQ'D OR PROVIDE NEW ELEVATOR FIXTURES IN SIMILAR SIZE TO COVER EXISTING.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

3 IMAGE 3



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REMOVE AND PROVIDE NEW ELEVATOR MACHINE ROOM CAGE COMPLETE WITH NEW ENCLOSURE CAGE WITH LID.

4 IMAGE 4

DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

REMOVE AND PROVIDE NEW ELEVATOR MACHINE ROOM CAGE COMPLETE WITH NEW ENCLOSURE CAGE WITH LID.

5 IMAGE 5

EXISTING STL FRAMES TO REMAIN - PROTECT IN PLACE - PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

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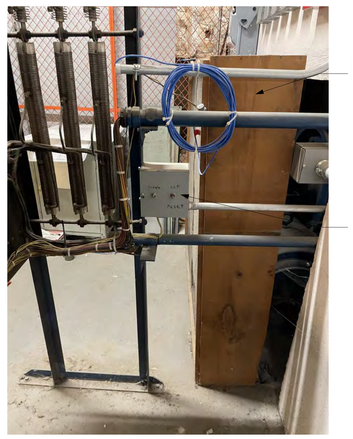
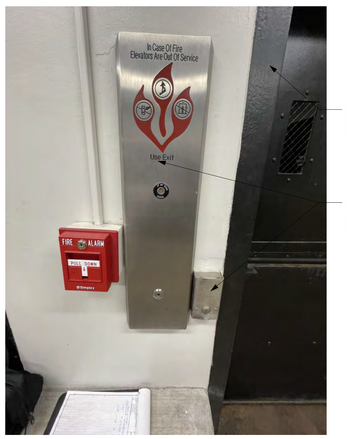
6 IMAGE 6



DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

EXISTING REMOTE RESET

7 IMAGE 7



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8 IMAGE 8

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Key Plan

Revision	Description	Date

OPN Project No.
24850000

Sheet Issue Date
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Sheet Name
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Sheet Number
AD200.4

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EXISTING PERFORATED METAL CEILING PANELS TO REMAIN - PAINT - TYPICAL.

EXISTING RAISED PERIMETER TRIM TO REMAIN - PAINT - TYPICAL.

REMOVE ALL SIGNAGE COMPLETE. PROVIDE NEW CODE REQUIRED SIGNAGE ONLY.

PROVIDE WINDOW IN COP PANEL FOR ELEVATOR CERTIFICATE.

REMOVE, SALVAGE AND REINSTALL INTERCOM SYSTEM. MAINTAIN EXISTING WIRING FOR REINSTALLATION.

REMOVE, SALVAGE AND REINSTALL CARD ACCESS CONTROL. PROVIDE PATHWAYS AS REQUIRED FOR REINSTALLATION IN NEW ELEVATOR CAB.

REPLACE CONTROL PANEL AND PROVIDE NEW. MAINTAIN EXISTING FLOOR DESIGNATIONS.

NEW ST. STL. CHECKER PLATE PANELS TO BE INSTALLED OVER EXISTING SHELL WITHIN THE EXISTING PERIMETER TRIM. FLUSH MOUNT WITH CONSTRUCTION ADHESIVE AND COUNTERSUNK ATTACHMENTS AT MAX. 2' O.C. EACH DIRECTION.

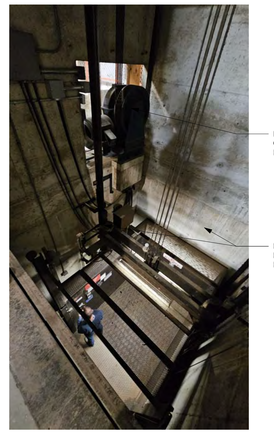
9 IMAGE 9

EXISTING PERFORATED METAL CEILING PANELS TO REMAIN - PAINT - TYPICAL.

EXISTING RAISED PERIMETER TRIM TO REMAIN - PAINT - TYPICAL.

NEW ST. STL. CHECKER PLATE PANELS TO BE INSTALLED OVER EXISTING SHELL WITHIN THE EXISTING PERIMETER TRIM. FLUSH MOUNT WITH CONSTRUCTION ADHESIVE AND COUNTERSUNK ATTACHMENTS AT MAX. 2' O.C. EACH DIRECTION.

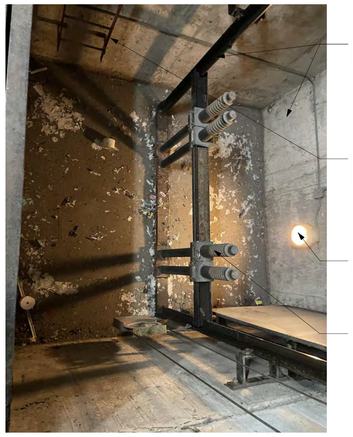
10 IMAGE 10



DEMO EXISTING ELEVATOR QUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

11 IMAGE 11



EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

REMOVE EXISTING LADDER COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS.

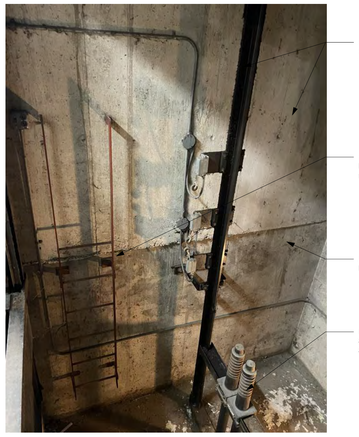
UPDATE ALL ELECTRICAL OUTLETS AND LIGHTING COMPLETE - SEE ELECTRICAL.

DEMO EXISTING ELEVATOR EQUIPMENT - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

12 IMAGE 12

EXISTING PERFORATED METAL CEILING PANELS TO REMAIN - PAINT - TYPICAL.

13 IMAGE 13



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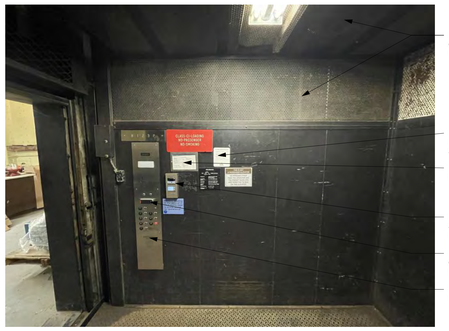
UPDATE ALL ELECTRICAL OUTLETS AND LIGHTING COMPLETE - SEE ELECTRICAL.

DEMO EXISTING ELEVATOR EQUIPMENT - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

14 IMAGE 14



EXISTING PERFORATED METAL CEILING AND WALL PANELS TO REMAIN - PAINT - TYPICAL.

REMOVE ALL SIGNAGE COMPLETE. PROVIDE NEW CODE REQUIRED SIGNAGE ONLY.

PROVIDE WINDOW IN COP PANEL FOR ELEVATOR CERTIFICATE.

REMOVE, SALVAGE AND REINSTALL INTERCOM SYSTEM. MAINTAIN EXISTING WIRING FOR REINSTALLATION.

REMOVE, SALVAGE AND REINSTALL CARD ACCESS CONTROL. PROVIDE PATHWAYS AS REQUIRED FOR REINSTALLATION IN NEW ELEVATOR CAB.

REPLACE CONTROL PANEL AND PROVIDE NEW.

15 IMAGE 15

EXISTING VENT SHAFT TO BE CAPPED. PROVIDE GALVANIZED PAN CLOSURE, FILL VOID ABOVE WITH INSULATION ABOVE TO HEIGHT OF ROOF CAP. AT ROOF, REMOVE VENT COVER AND PROVIDE WEATHER BARRIER AND GALVANIZED SHEET METAL COVERING WITH EXPOSED FASTENERS.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

16 IMAGE 16

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24850000

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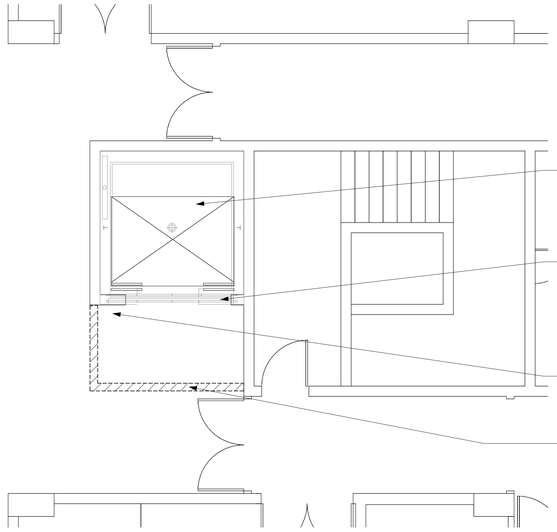
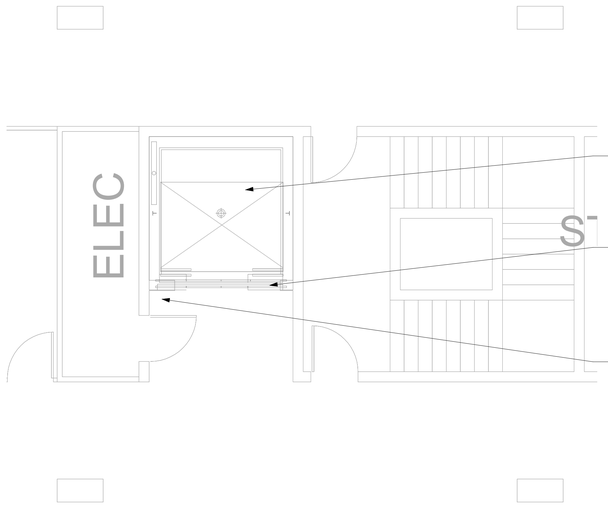
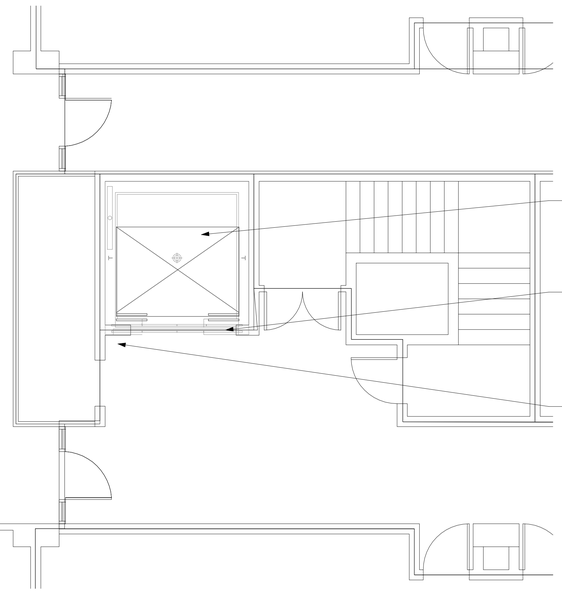


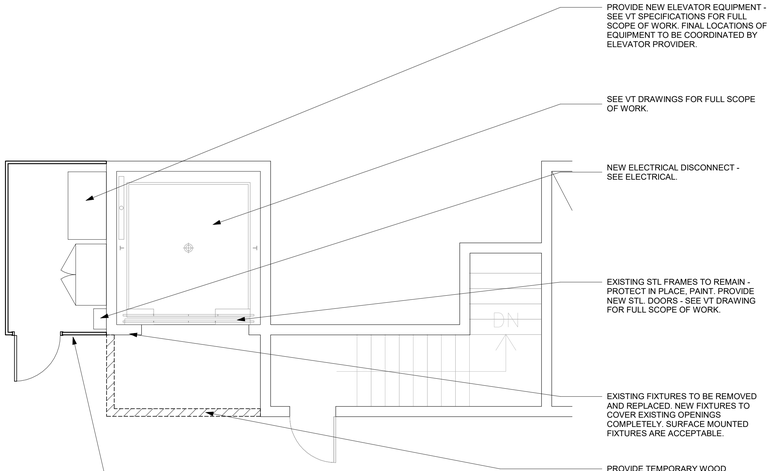
N2 LOWER LEVEL FLOOR PLAN
1/4" = 1'-0"



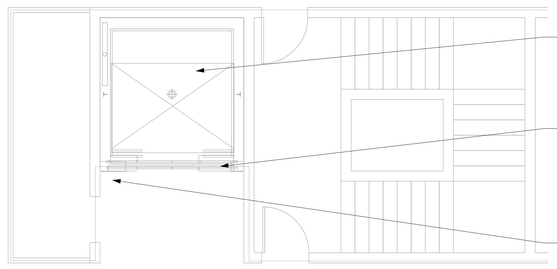
N12 LEVEL 3 FLOOR PLAN
1/4" = 1'-0"



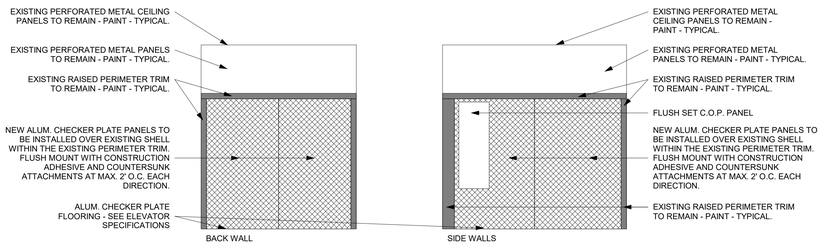
F2 LEVEL 1 FLOOR PLAN
1/4" = 1'-0"



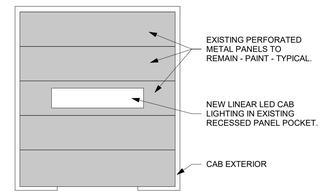
F12 PENTHOUSE FLOOR PLAN
1/4" = 1'-0"



A2 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"



A12 ELEVATOR CAB FINISHES
3/8" = 1'-0"



A21 ELEVATOR CAB CEILING
3/8" = 1'-0"

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.

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24850000

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Sheet Name
FLOOR PLANS

Sheet Number
A100.4

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MECHANICAL - GENERAL NOTES

1. 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.
2. INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
3. EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
4. COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
5. CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
6. 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

1. 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.
2. 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.
3. 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.
4. UNLESS EQUIPMENT TO BE REMOVED IS NOTED AS OWNER'S SALVAGE, DISPOSE OF EQUIPMENT AND/OR MATERIALS INDICATED TO BE REMOVED PROMPTLY.
5. 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.
6. REPAIR OR REPLACE TELECOMMUNICATIONS FACILITIES OR EQUIPMENT FOUND TO BE DAMAGED OR NON-FUNCTIONAL AFTER SUBSTANTIAL COMPLETION.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

ELECTRICAL ABBREVIATIONS

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

GENERAL NOTES - ELECTRICAL

1. 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.
2. 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

1. INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
2. 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.
3. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
4. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
5. 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)
6. 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

1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
2. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
3. INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG –AMERICANS WITH DISABILITIES ACT.
4. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
5. 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

1. PROVIDE NORMAL WIRING DEVICES AS GRAY UNLESS OTHERWISE NOTED.
2. PROVIDE EMERGENCY WIRING DEVICES AS ORANGE UNLESS OTHERWISE NOTED.
3. PROVIDE DEVICES COVER PLATES AS STAINLESS STEEL MATCH WIRING DEVICES COLOR.
4. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
5. INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED.
6. AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

FIRE DETECTION & ALARM NOTES

1. INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
2. INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
3. FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
4. ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN ¾" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
5. ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER SPECIFICATION.

COMMUNICATION NOTES

1. REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT LOCATIONS.
2. INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

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LIGHTING SYMBOLS

- RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
- ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
- SURFACE MOUNTED STRIP FIXTURE
- LINEAR PENDANT MOUNTED FIXTURE
- INDUSTRIAL STRIP LIGHT 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
- EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- EMERGENCY TRANSFER DEVICE

TECHNOLOGY RESPONSIBILITY MATRIX

PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI
COMMUNICATIONS - TELECOM SYSTEMS:			
ROUGH-IN, PATHWAYS AND SLEEVES			●
RACKS, FRAMES AND ENCLOSURES	REUSE EXISTING		
COPPER HORIZONTAL CABLING			●
DATA COMMUNICATIONS SWITCHES AND HUBS	REUSE EXISTING		
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			●
SECURITY - VIDEO SURVEILLANCE:			
ROUGH-IN, PATHWAYS AND SLEEVES	N/A	N/A	N/A
CAMERA(S)	N/A	N/A	N/A
HEAD END EQUIPMENT AND COMPONENTS	N/A	N/A	N/A
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)			●

● 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 APPERTUNANCES 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.
B.

GENERAL SYMBOLS

- CONDUIT SLEEVE
- CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
- CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
- JUNCTION BOX, CEILING OR FLOOR MOUNTED.
- JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
- KEYNOTE
- XXX / X — EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
- 1 / A101 SIM — DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE; SHEET REFERENCE
- 1 / A101 SIM — SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE; SHEET REFERENCE
- A101 / 1 SHEET — INTERIOR ELEVATION DRAWING REFERENCE TAG
- 1 — DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNTED
- DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT
- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE.
- W — DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT
- 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
- SPD — SURGE PROTECTIVE DEVICE
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - RECESSED IN WALL
- DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

TEMPERATURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C

- T — THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- H — HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- C — CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- S — TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

EQUIPMENT CONNECTION SCHEDULE

ABBREVIATIONS:

1	NEMA 1 ENCLOSURE	INT	INTEGRAL WITH EQUIPMENT FROM FACTORY
3R	NEMA 3R ENCLOSURE	NFD	NON-FUSED DISCONNECT SWITCH, HEAVY DUTY
CB	CIRCUIT BREAKER IN PANEL	ST	SHUNT TRIP
FAR	FIRE ALARM SHUTDOWN RELAY	TS	TOGGLE SWITCH
FDS	FUSED DISCONNECT SWITCH, HEAVY DUTY		

NOTES:
1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL SYSTEMS.
2. REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY.
3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R OUTDOORS.
4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

	ELECTRICAL CHARACTERISTICS					DISCONNECT				
TAG	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	REMARKS
SSI-1	208 V	1	-	-	1	NFD	30	1	-	-
SSO-1	208 V	1	-	-	19	NFD	30	3R	-	-

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,...
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 FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: ERIC HEYNEN

TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	DRIVER TYPE	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
EM	HUBBELL DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT REQUIRED	WHITE	300	LED	LED - 4000K	120 V	2 VA	SURE-LITES, LIGHTALARMS, LITHONIA
F1	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS, MULTI-VOLT REQUIRED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F2	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	SAME AS F1 BUT WALL MOUNTED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F3	ALPHABET	NU4E4-RD-SW-15LM-3 5K-90-60D-CL-WH-WH-RET-UNV	4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN SPACE	WHITE	1500	LED	LED - 3500K	120 V	16 VA	GOTHAM, PORTFOLIO

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Sheet Name
ELECTRICAL/MECHANICAL GENERAL NOTES & SYMBOLS GRIMES

ME000.4

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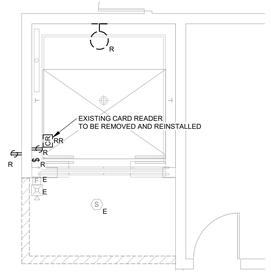
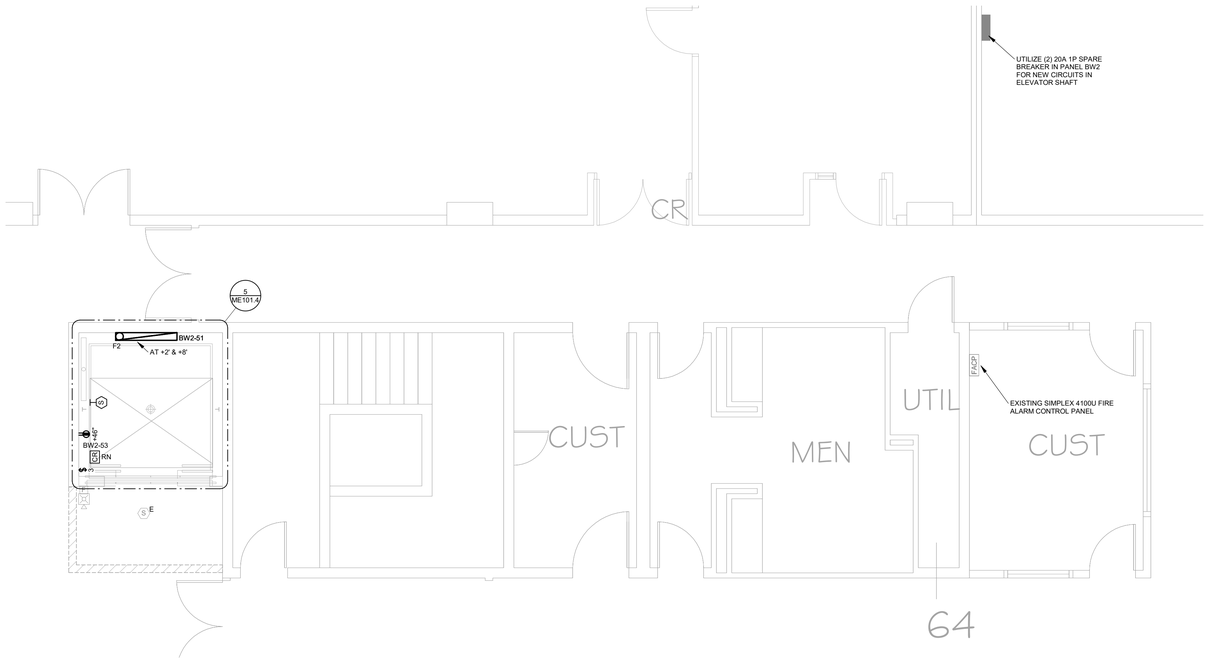


1 GRIMES LOWER LEVEL - DEMO
1/4" = 1'-0"



2 GRIMES LOWER LEVEL
1/4" = 1'-0"

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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 CEILINGS TILES DAMAGED DURING DEMOLITION.
   d. KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECCESARY 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

POWER GENERAL NOTES

A. 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.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

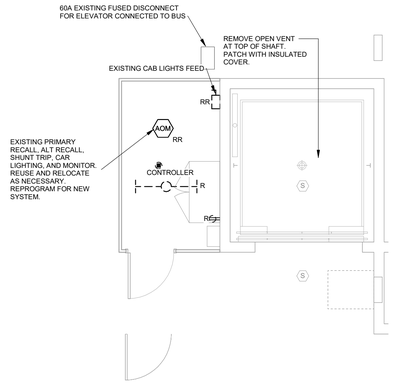
LIGHTING GENERAL NOTES

A. 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, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT

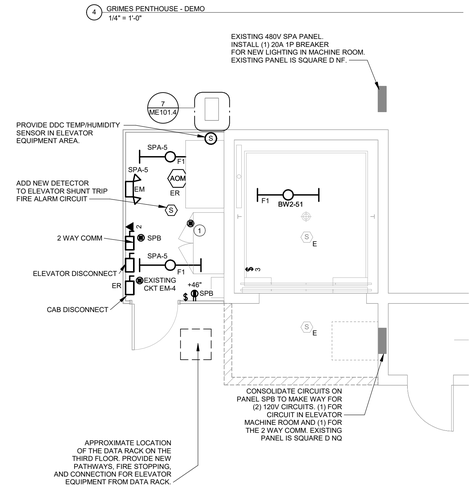
B. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

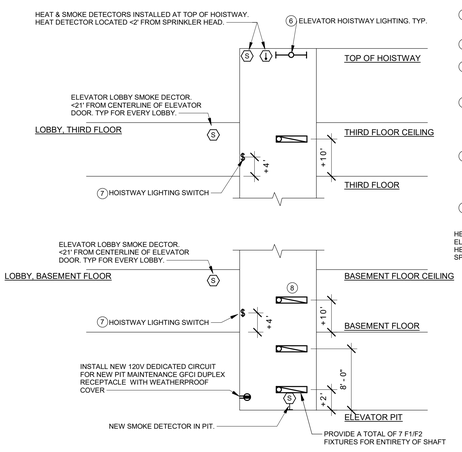
KEYNOTES (#)

1 FIELD VERIFY LOCATIONS OF ELEVATOR CONNECTION, AUX. POWER CONNECTION, AND 2-WAY COMMUNICATION CONNECTION.

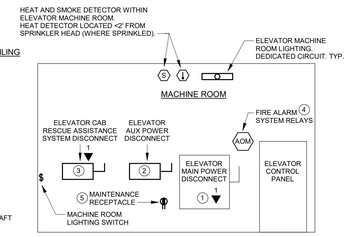


4 GRIMES PENTHOUSE - DEMO
1/4" = 1'-0"





TYPICAL ELEVATOR HOISTWAY ELEVATION

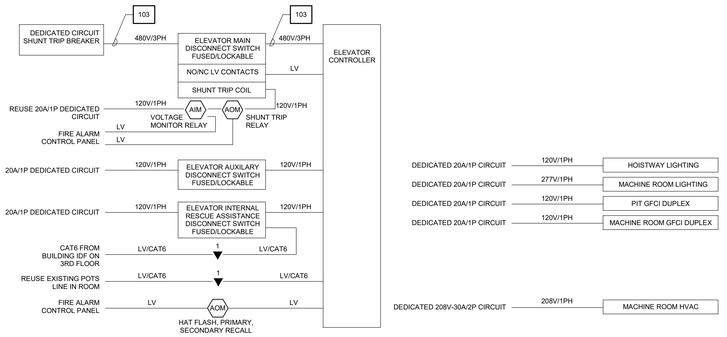


TYPICAL ELEVATOR MACHINE ROOM

5 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

FEEDER SCHEDULE

TAG	PHASE	GROUND	CONDUCTOR MATERIAL	CONDUIT
103	1- SET (3) #3	#8	COPPER	(1) 1"
153	1- SET (3) #1/0	#6	COPPER	(1) 2"



TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

6 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

3 GRIMES PENTHOUSE
1/4" = 1'-0"

7 GRIMES ELEVATOR DISCONNECT
3/32" = 1'-0"

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Key Plan

Revision	Description	Date

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Sheet Issue Date
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Sheet Name
ELECTRICAL/MECHANICAL
GRIMES

Sheet Number
ME101.4

PROJECT LOCATION MAP

SHEET INDEX

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

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 Chaper 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.**

IBE 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 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 not be provided in the new elevator machine room nor at the bottom of the elevator pit (traction elevators). A sprinkler is not required a the top of the hoistway due to compliance with 8.15.5.6.**

STATE OF IOWA - LUCAS BUILDING ELEVATOR MOD.

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03/14/2025

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AG001.5

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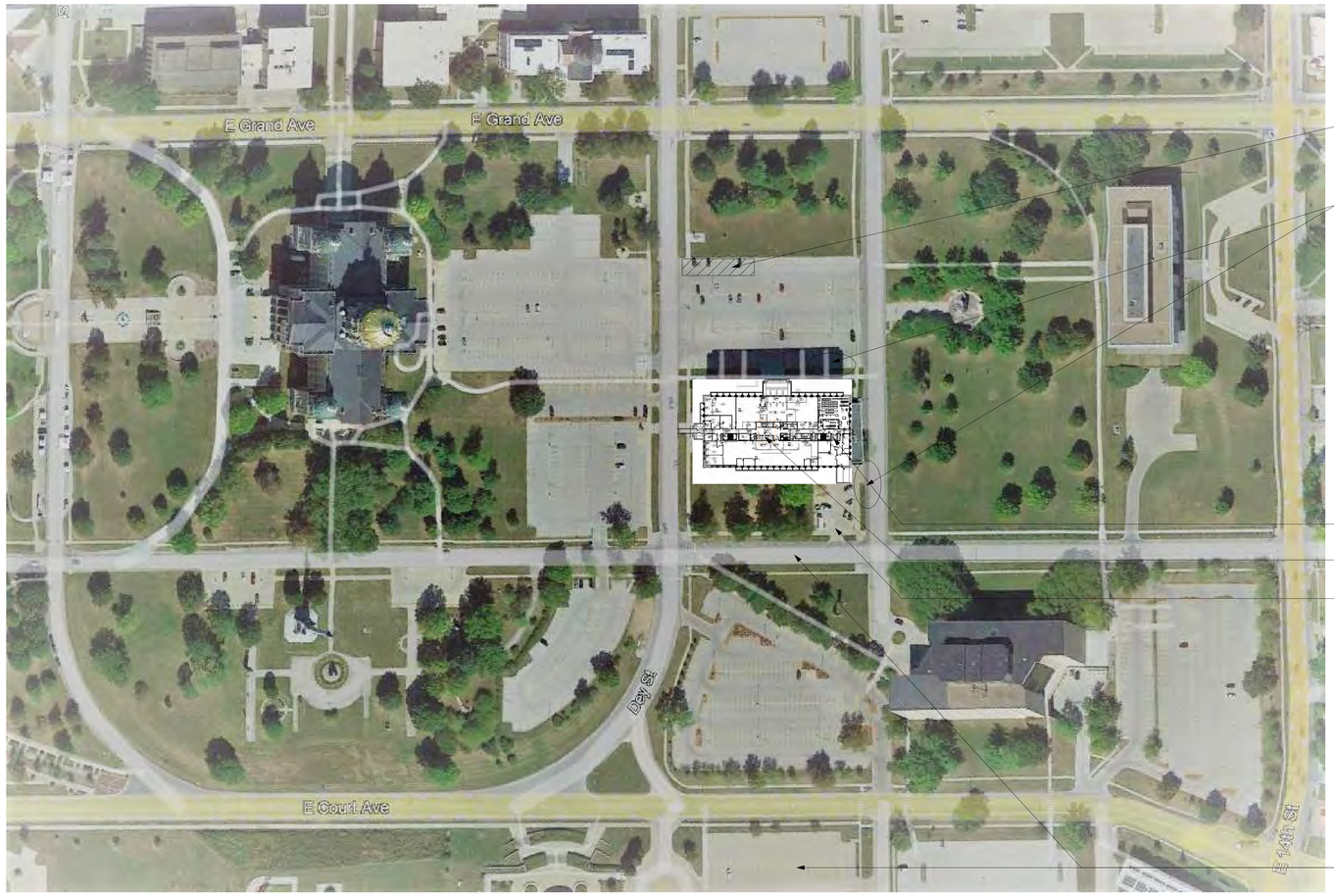


CONTRACTOR PARKING - COORDINATE FINAL LOCATION WITH CONSTRUCTION MANAGER.

POTENTIAL CRANE SETUP OPTIONS - COORDINATE FINAL LOCATION AND TIMING WITH CONSTRUTION MANAGER.

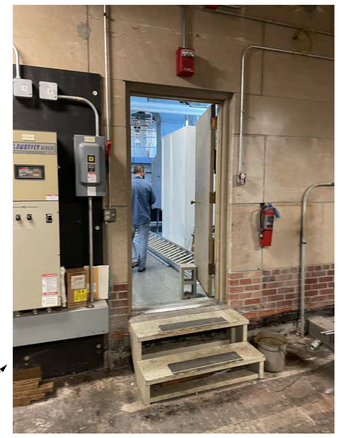
PROJECT FREIGHT ELEVATOR

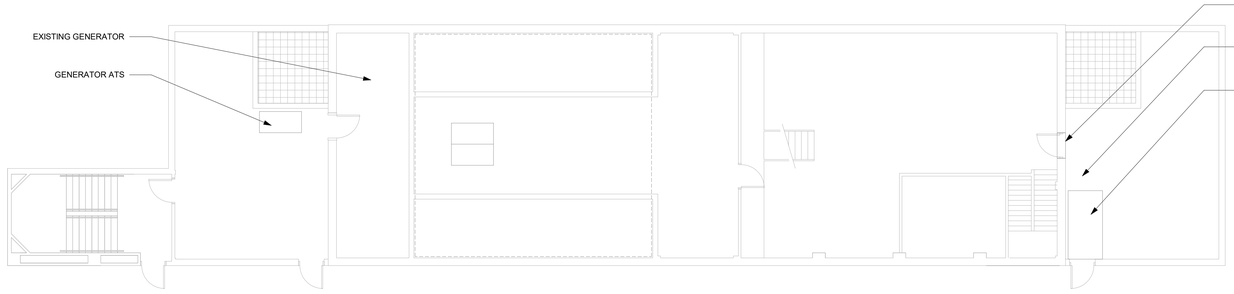
PROJECT HYDRAULIC ELEVATOR

DUMPSTER - COORDINATE LOCATION WITH CONSTRUCTION MANAGER

CONTRACTOR PARKING IS ALLOWED AT PUBLIC STREET PARKING AND AT STATE LOT TO SOUTH.

G2 SITE AERIAL
3" = 1'-0"





STEPS UP TO PENTHOUSE FLOOR

ANTICIPATED PATHWAY TO ELEVATOR MACHINE ROOM

RAMP DOWN FROM DOOR ACCESS TO ROOF.

FREIGHT ELEVATOR MACHINE ROOM - ACCESSED FROM THE ROOF ONLY.

ROOF ACCESS - CRANE DROP ZONE

A2 PENTHOUSE FLOOR PLAN
1/8" = 1'-0"

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Key Plan

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SITE LOGISTICS PLANS

Sheet Number
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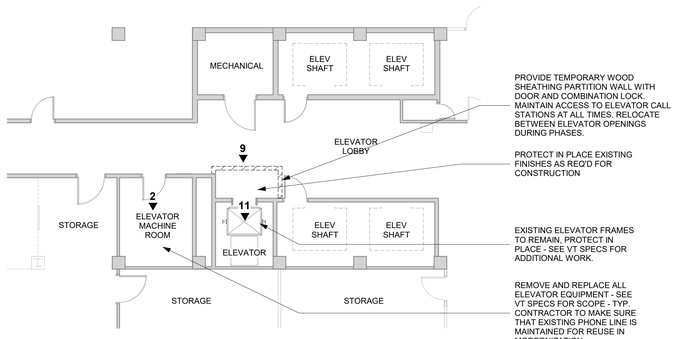
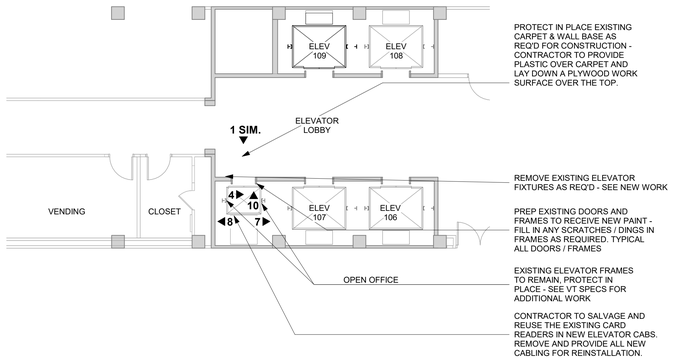


P1 LOWER LEVEL DEMOLITION PLAN
1/8" = 1'-0"



P9 GROUND LEVEL DEMOLITION PLAN
1/8" = 1'-0"

P16 LEVEL 1 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

C9 LEVEL 6 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

J1 LEVEL 2 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. 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 CONSTRUCTION MANAGER IMMEDIATELY.
2. REMOVE LOOSE PAINT AND MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES.
3. 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.
4. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
5. PATCH AND REPAIR ALL EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION OR PRIOR USE.
6. PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED. PATCH TO MATCH FIRE RATING OF EXISTING WALL CONSTRUCTION.
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KEYNOTE LEGEND

◄ # EXISTING CONDITION IMAGE REFERENCE - SEE AD102

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Key Plan

Revision	Description	Date

OPN Project No.
24850000

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Sheet Name
DEMO FLOOR PLANS

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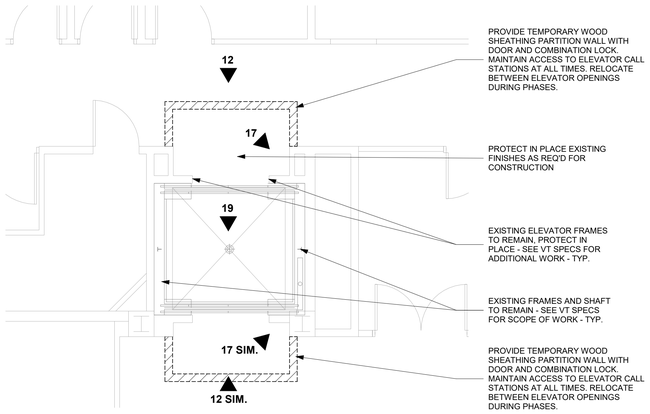
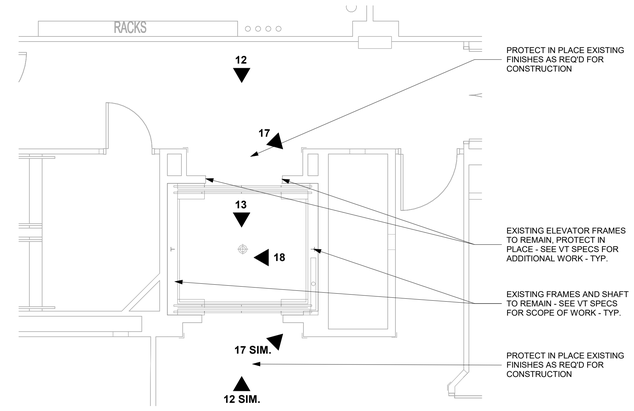
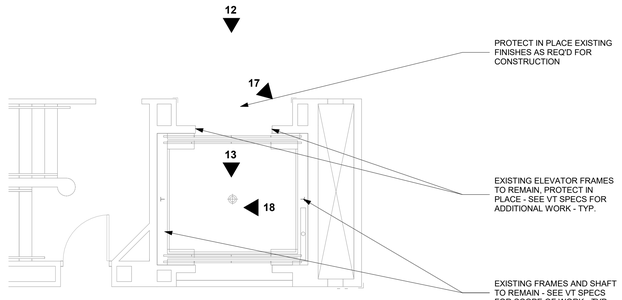


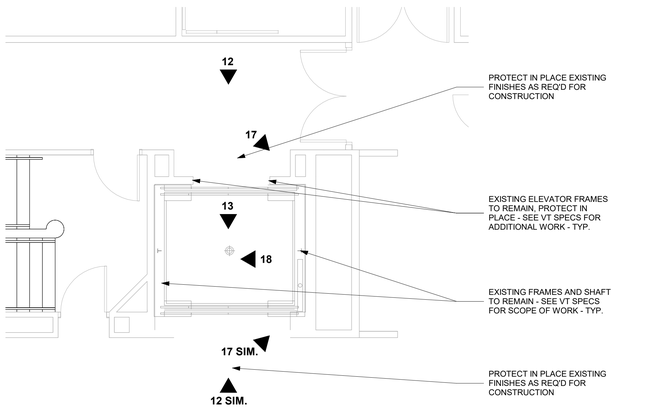
P1 LOWER LEVEL DEMOLITION PLAN - FREIGHT
1/4" = 1'-0"



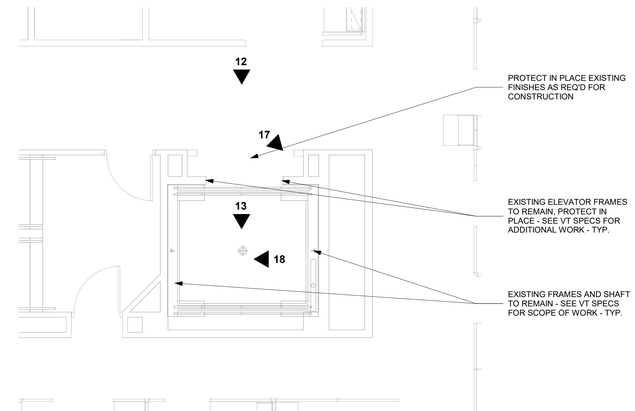
P9 GROUND LEVEL DEMOLITION PLAN - FREIGHT
1/4" = 1'-0"



P16 LEVEL 1 DEMOLITION FLOOR PLAN - FREIGHT
1/4" = 1'-0"



J1 LEVEL 2 DEMOLITION FLOOR PLAN - FREIGHT
1/4" = 1'-0"



J9 LEVEL 3 DEMOLITION FLOOR PLAN - FREIGHT
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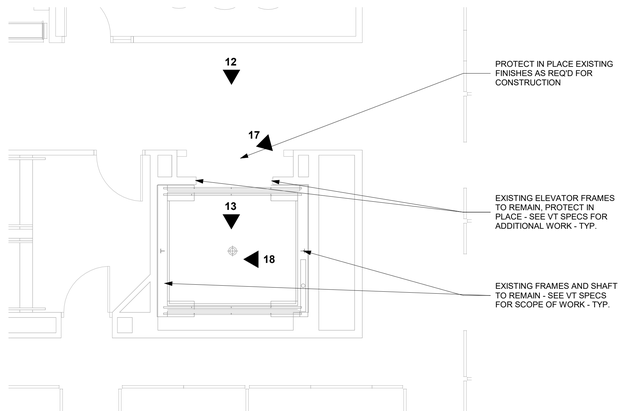

J16 LEVEL 4 DEMOLITION FLOOR PLAN - FREIGHT
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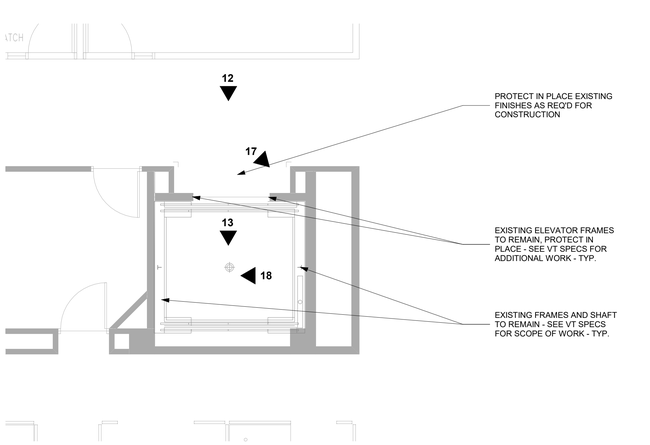
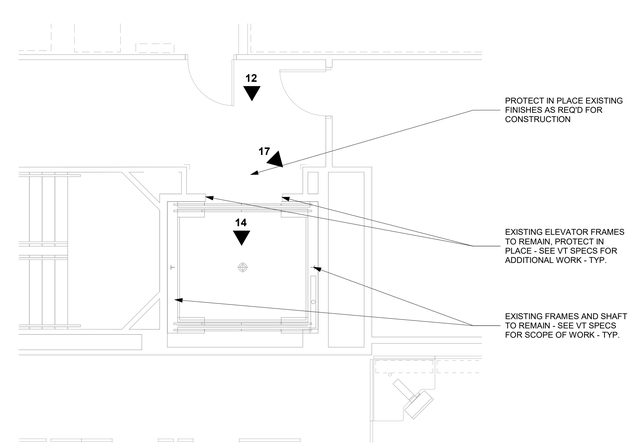
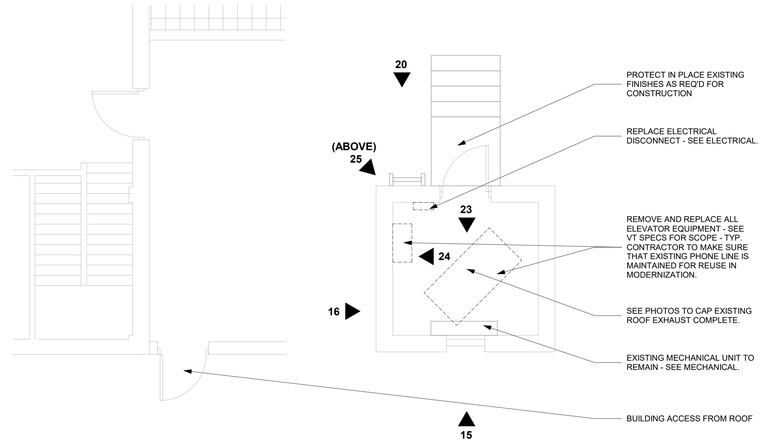


C1 LEVEL 5 DEMOLITION FLOOR PLAN - FREIGHT
1/4" = 1'-0"



C9 LEVEL 6 DEMOLITION FLOOR PLAN - FREIGHT
1/4" = 1'-0"



C16 UPPER PENTHOUSE DEMOLITION FLOOR PLAN - FREIGHT
1/4" = 1'-0"

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KEYNOTE LEGEND

EXISTING CONDITION IMAGE REFERENCE - SEE AD102

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Key Plan

Revision Description Date

OPN Project No
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Sheet Issue Date
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DEMO FLOOR PLANS

Sheet Number
AD101.5

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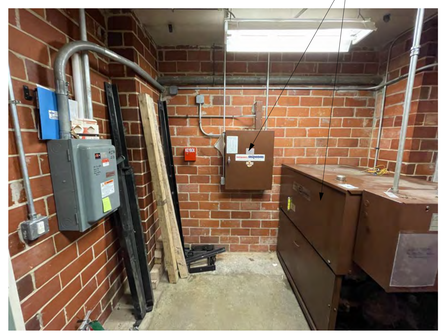
REMOVE AND REPLACE EXISTING ELEVATOR SIGNAGE - COORDINATE LOCATION OF NEW SIGNAGE WITH CURRENT LOCATION - STAINLESS STEEL FINISH. MATCH OTHER FIXTURES IN ELEVATOR LOBBY.
ALL NEW FIXTURES TO BE RECESSED - TYP.

EXISTING FRAME TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK -PROTECT EXISTING METAL PANEL COVER DURING CONSTRUCTION. PREP EXISTING DOORS AND FRAMES TO RECEIVE NEW PAINT - FILL IN ANY SCRATCHES / DINGS IN FRAMES AS REQUIRED. TYPICAL ALL DOORS / FRAMES

PROVIDE CUSTOM SIZED BACKPLATE FOR NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS EXCEPT MAIN LOBBY.
MATCH OTHER FIXTURES IN LOBBY.

PROTECT IN PLACE EXISTING CARPET & WALL BASE AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP

1 IMAGE 1



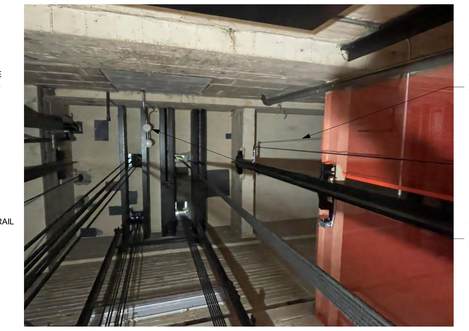
DEMO EXISTING ELEVATOR EQUIPMENT COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS FOR COMPLETE SCOPE.

2 IMAGE 2

VIEW OF SHAFT ABOVE HYDRAULIC ELEVATOR STOP LOCATION.

EXISTING SHAFT AND RAIL TO REMAIN - SEE VT DRAWINGS FOR FULL SCOPE OF WORK

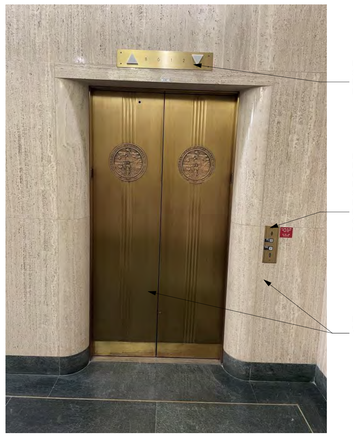
3 IMAGE 3



VIEW OF TOP OF SHAFT ABOVE HYDRAULIC ELEVATOR.

VIEW OF ADJACENT ELEVATOR WITH DETECTION WITHIN SPACE.

4 IMAGE 4



REPLACE ELEVATOR SIGNALS WITH SIMILAR CUSTOM BRONZE SIGNAL FIXTURES TO MATCH EXISTING LAYOUT.

PROVIDE CUSTOM SIZED BRONZE BACKPLATE FOR NEW ELEVATOR CONTROLS AT MAIN LOBBY. SIZE TO MATCH EXISTING LOCATION AND SIZE TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLLERS. AT MAIN LOBBY, COLOR TO BE BRONZE TO MATCH EXISTING ELEVATORS AND SHOULD INCLUDE REQUIRED SIGNAGE SIMILAR TO OTHER UNITS. ALL NEW FIXTURES TO BE RECESSED - TYP.

EXISTING BRONZE DOORS AND STONE WORK TO BE PROTECTED AT ALL TIMES.

5 IMAGE 5

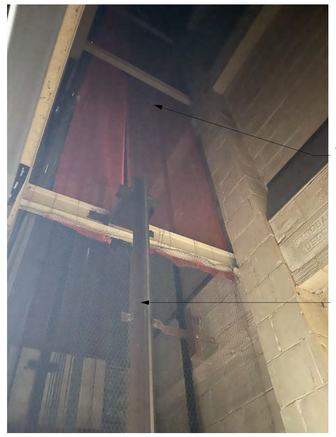
PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

REMOVE, SALVAGE AND REINSTALL CARD ACCESS CONTROL. PROVIDE PATHWAYS AS REQUIRED FOR REINSTALLATION IN NEW ELEVATOR CAB.

PROVIDE NEW DUAL ELEVATOR CONTROL PANEL (BRONZE FINISH) IN CAB - STYLE AND LAYOUT TO MATCH OTHER CABS IN SHARED ELEVATOR LOBBY.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.

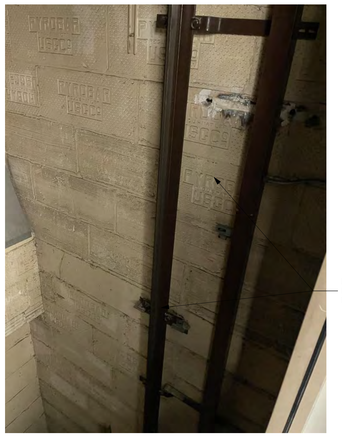
6 IMAGE 6



VIEW OF SHAFT ABOVE HYDRAULIC ELEVATOR STOP LOCATION.

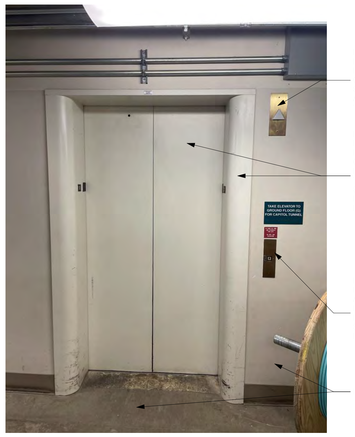
EXISTING RAIL TO REMAIN - SEE VT DRAWINGS FOR FULL SCOPE OF WORK

7 IMAGE 7



EXISTING SHAFT AND RAIL TO REMAIN - SEE VT DRAWINGS FOR FULL SCOPE OF WORK

8 IMAGE 8



REMOVE AND REPLACE EXISTING ELEVATOR SIGNAGE - COORDINATE LOCATION OF NEW SIGNAGE WITH CURRENT LOCATION - STAINLESS STEEL FINISH.
ALL NEW FIXTURES TO BE RECESSED - TYP.

EXISTING FRAME TO REMAIN - SEE VT DRAWINGS FOR FULL SCOPE OF WORK - PROTECT EXISTING METAL PANEL COVER DURING CONSTRUCTION. PREP EXISTING DOORS AND FRAMES TO RECEIVE NEW PAINT - FILL IN ANY SCRATCHES / DINGS IN FRAMES AS REQUIRED. TYPICAL ALL DOORS / FRAMES

PROVIDE CUSTOM SIZED BACKPLATE FOR NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS EXCEPT MAIN LOBBY.

PROTECT IN PLACE EXISTING FINISHES.

9 IMAGE 9

PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

REMOVE, SALVAGE AND REINSTALL CARD ACCESS CONTROL.

PROVIDE NEW DUAL ELEVATOR CONTROL PANEL (BRONZE FINISH) IN CAB - STYLE AND LAYOUT TO MATCH OTHER CABS IN SHARED ELEVATOR LOBBY.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.

10 IMAGE 10

REMOVE AND PROVIDE NEW CODE COMPLIANT ELEVATOR PIT LADDER.

EXISTING PIT DETECTION - SEE ELECTRICAL.

PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE ELECTRICAL.

EXISTING SUMP TO REMAIN.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

11 IMAGE 11

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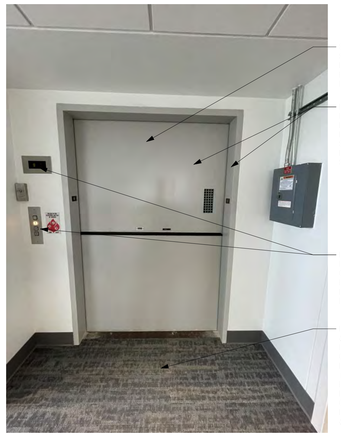

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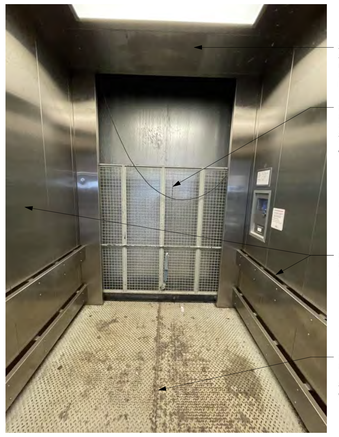

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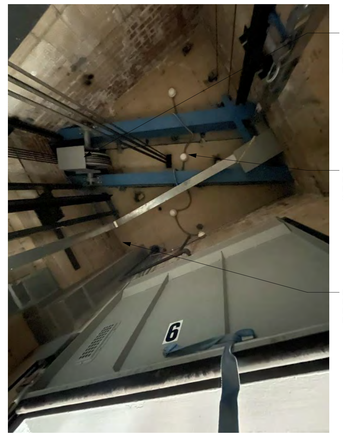

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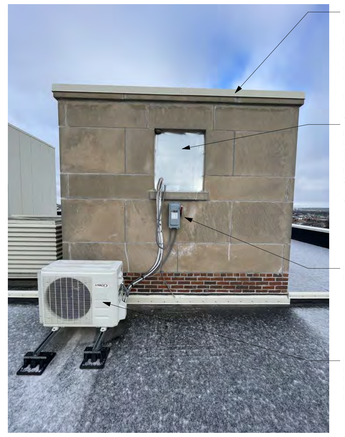

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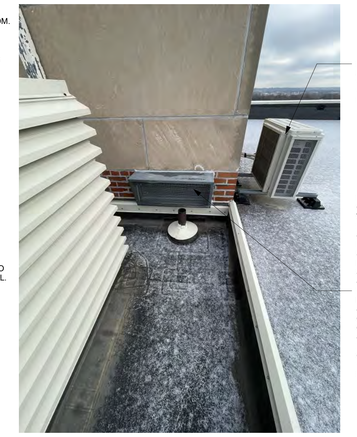

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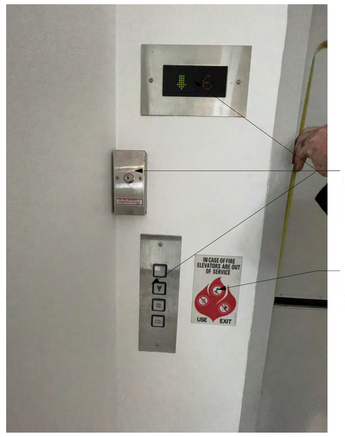
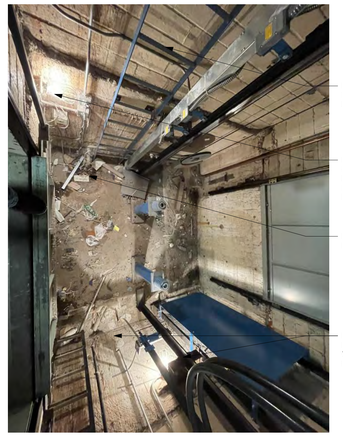


17 IMAGE 17

18 IMAGE 18



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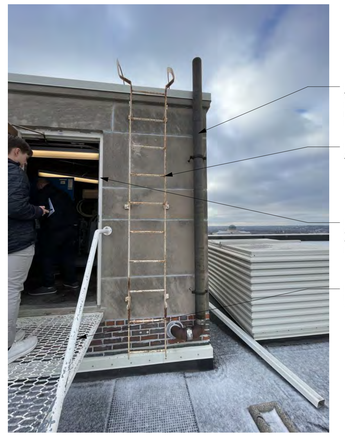

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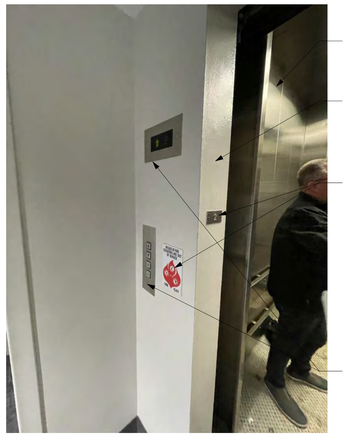
21 IMAGE 21



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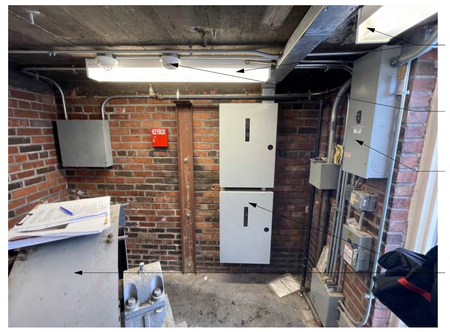
23 IMAGE 23



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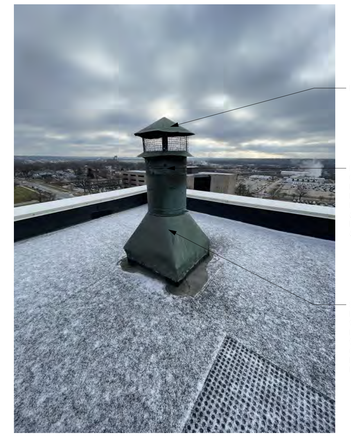

25 IMAGE 25

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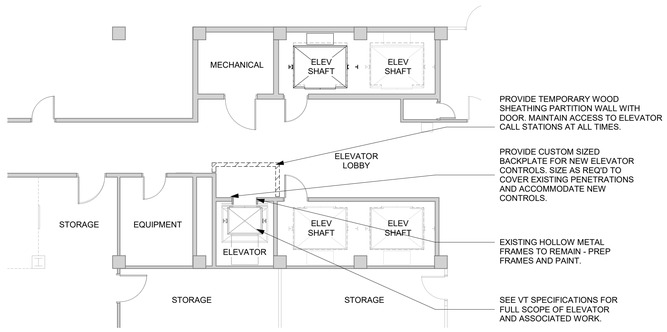
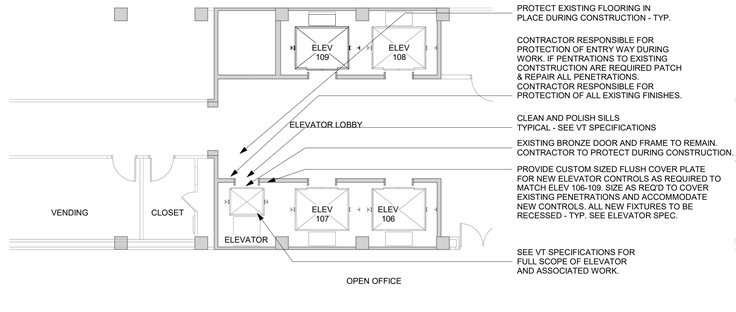
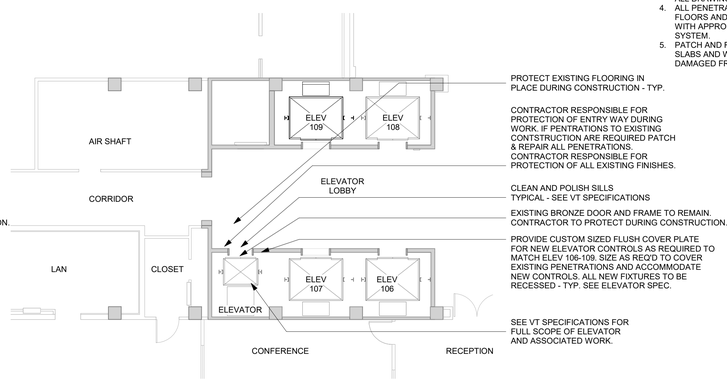


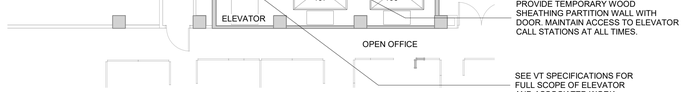
P1 LOWER LEVEL PLAN
1/8" = 1'-0"



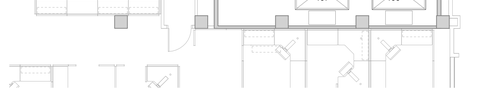
P9 GROUND LEVEL PLAN
1/8" = 1'-0"



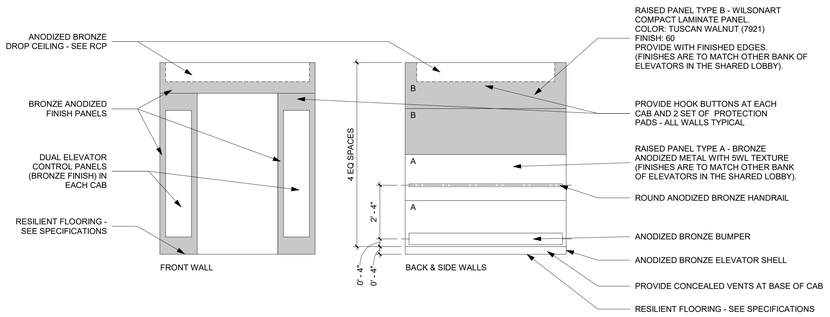
P16 LEVEL 1 FLOOR PLAN
1/8" = 1'-0"



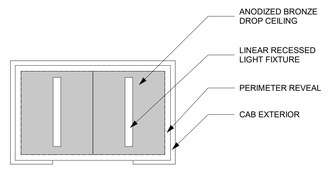
J1 LEVEL 2 FLOOR PLAN
1/8" = 1'-0"



J9 LEVEL 6 FLOOR PLAN
1/8" = 1'-0"



A1 ELEVATOR CAB FINISHES - HYDRAULIC ELEVATOR
3/8" = 1'-0"



A11 ELEVATOR CAB FINISHES - RCP - HYDRAULIC ELEVATOR
3/8" = 1'-0"

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.

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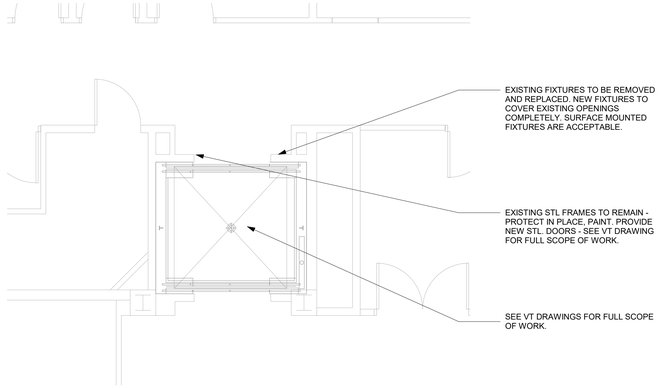
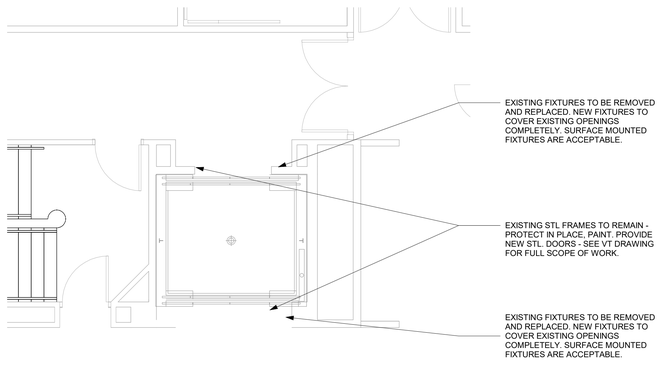
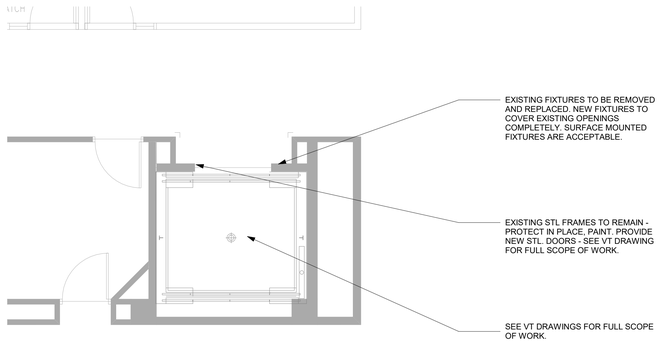


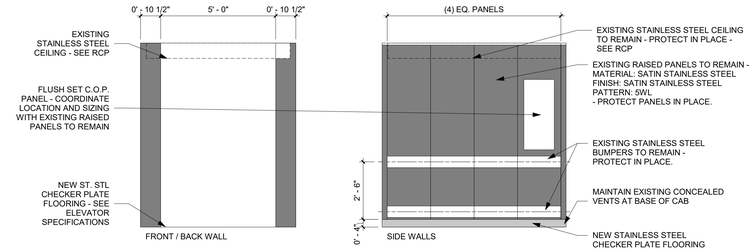
Q1 LOWER LEVEL FREIGHT PLAN
1/4" = 1'-0"



K1 LEVEL 2 FREIGHT PLAN
1/4" = 1'-0"

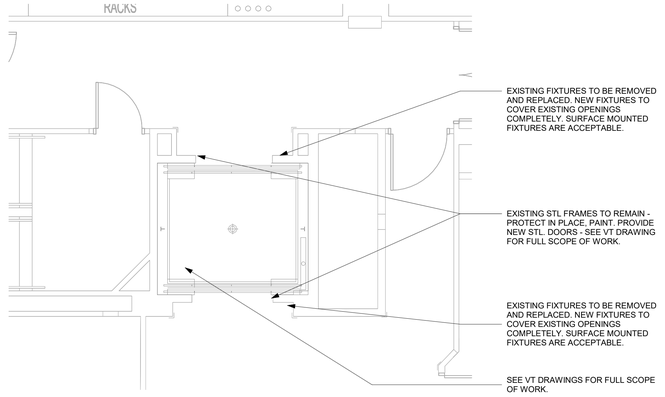


E1 LEVEL 5 FREIGHT PLAN
1/4" = 1'-0"

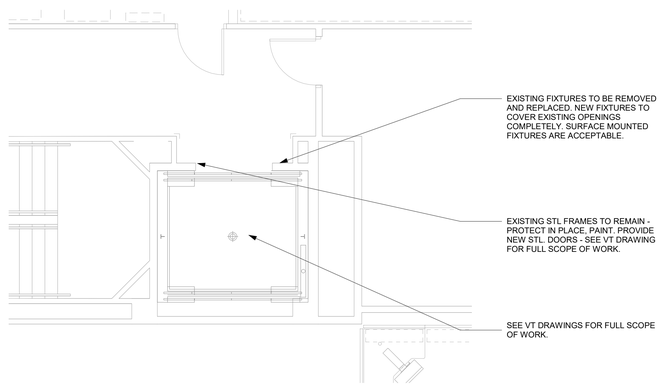


A1 ELEVATOR CAB FINISHES
3/8" = 1'-0"

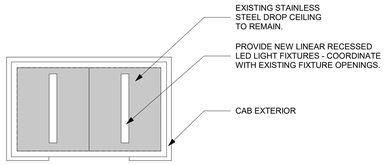
Q9 GROUND LEVEL FREIGHT PLAN
1/4" = 1'-0"



J9 LEVEL 3 FREIGHT PLAN
1/4" = 1'-0"

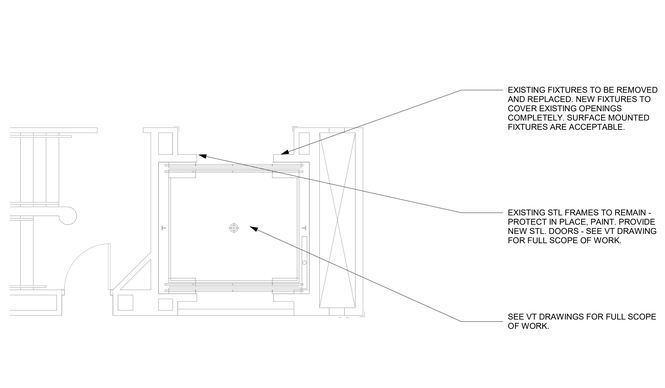


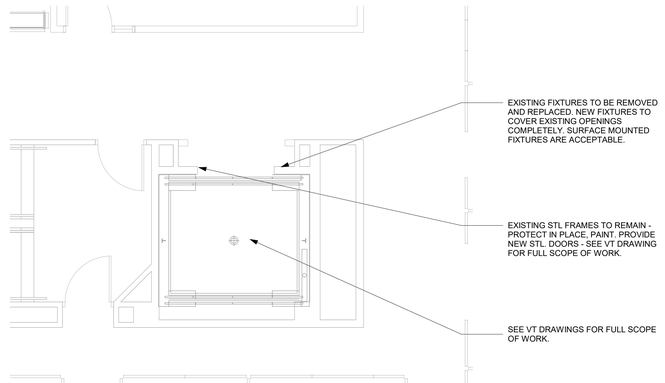
E9 LEVEL 6 FREIGHT PLAN
1/4" = 1'-0"



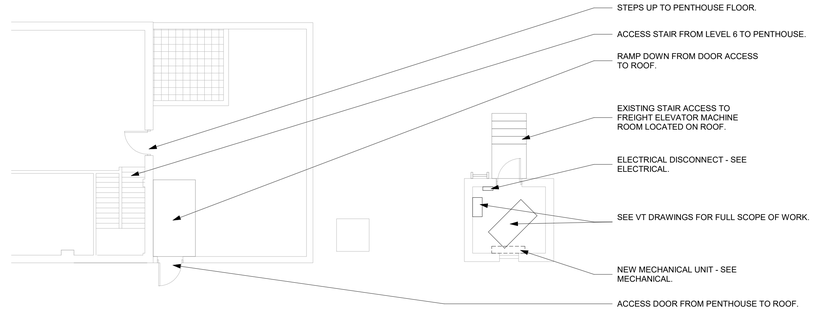
A10 ELEVATOR CAB FINISHES - RCP
3/8" = 1'-0"

Q16 LEVEL 1 FREIGHT PLAN
1/4" = 1'-0"





J16 LEVEL 4 FREIGHT PLAN
1/4" = 1'-0"



E16 UPPER PENTHOUSE FREIGHT PLAN
1/8" = 1'-0"

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FLOOR PLANS

Sheet Number
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MECHANICAL - GENERAL NOTES

1. 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.
2. INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
3. 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.
4. EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
5. COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
6. CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
7. 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.
8. PROVIDE WARRANTIES FOR ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS, PARTS ONLY, NON-PRORATED, FROM THE DATE OF OCCUPANCY OR SUBSTANTIAL COMPLETION, OR WHICHEVER OCCURS FIRST. THE WARRANTY SHALL COVER COMPRESSORS, EVAPORATORS, CONDENSER COILS, HIGH AND LOW SIDE PIPING, AND PIPING SPECIALTIES INCLUDING EXPANSION AND SOLENOID VALVES, RELIEF VALVES, FILTER-DRYER, AND SIGHT GLASSES. PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY DOES NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM THE OWNER'S ACCIDENT, IMPROPER OPERATION, OR FAILURE TO PROVIDE MAINTENANCE. WARRANTY COVERS DEFECTIVE MATERIAL AND INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

MECHANICAL – DEMOLITION NOTES

1. 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.
2. 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.
3. 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.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

HVAC - NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. PROVIDE MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.
3. PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.
4. CONTINUE PIPE INSULATION THROUGH WALLS, FLOORS, AND CEILING PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED IN DUCTWORK.

ELECTRICAL ABBREVIATIONS

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

GENERAL NOTES - ELECTRICAL

1. 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.
2. 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

1. INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
2. 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.
3. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
4. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
5. 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)
6. 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

1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
2. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
3. INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG –AMERICANS WITH DISABILITIES ACT.
4. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
5. 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

1. PROVIDE NORMAL WIRING DEVICES AS GRAY UNLESS OTHERWISE NOTED.
2. PROVIDE EMERGENCY WIRING DEVICES AS ORANGE UNLESS OTHERWISE NOTED.
3. PROVIDE DEVICES COVER PLATES AS STAINLESS STEEL. MATCH WIRING DEVICES COLOR.
4. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
5. INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED.
6. AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

FIRE DETECTION & ALARM NOTES

1. INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
2. INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
3. FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
4. ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN ¾" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
5. ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER SPECIFICATION.

COMMUNICATION NOTES

1. REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT LOCATIONS.
2. INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

LIGHTING SYMBOLS

- RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
- ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
- SURFACE MOUNTED STRIP FIXTURE
- LINEAR PENDANT MOUNTED FIXTURE
- INDUSTRIAL STRIP LIGHT 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
- EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- ETD — EMERGENCY TRANSFER DEVICE

TECHNOLOGY RESPONSIBILITY MATRIX

PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI
COMMUNICATIONS - TELECOM SYSTEMS:			
ROUGH-IN, PATHWAYS AND SLEEVES			●
RACKS, FRAMES AND ENCLOSURES	REUSE EXISTING		
COPPER HORIZONTAL CABLING			●
DATA COMMUNICATIONS SWITCHES AND HUBS	REUSE EXISTING		
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			●
SECURITY - VIDEO SURVEILLANCE:			
ROUGH-IN, PATHWAYS AND SLEEVES	N/A	N/A	N/A
CAMERA(S)	N/A	N/A	N/A
HEAD END EQUIPMENT AND COMPONENTS	N/A	N/A	N/A
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)			●

● 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 APPERTUNANCES 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.
B.

GENERAL SYMBOLS

- CONDUIT SLEEVE
- CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
- CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
- 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 ELEVATION DRAWING REFERENCE TAG
- DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNTED
- DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT
- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE.
- DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT
- 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
- SPD — SURGE PROTECTIVE DEVICE
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - RECESSED IN WALL
- DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

TEMPERATURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C

- T — THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- H — HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- C — CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- S — TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

REFERENCE	SSI-1
MANUFACTURER	MITSUBISHI
MODEL #	PKA-A24
TYPE	WALL MOUNT
SERVES	HOOVER PENTHOUSE
WEIGHT (LBS)	46
DIMENSIONS - L x W x D (INCHES)	46x14x11
NOMINAL CAPACITY (TONS)	2.00
MAX UNIT AIRFLOW (CFM)	775
EXTERNAL STATIC PRESSURE (IN. W.G.)	0.2
COOLING CAPACITY - RATED (BTU/H)	24
SEER	21.1
REFRIGERANT TYPE	R454B
VOLTAGE - PH	208 - 1
ELECTRICAL DATA	
MCA	1.00
MOCP	SEE SSO SCHEDULE
NOTES	1 THROUGH 5

NOTES:
1. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C.
2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING INSTALLATION AND DISCONNECT BY E.C.
3. COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°FF, OUTDOOR: 95°F/75°F
4. PROVIDE FILTER AND CONDENSATE PUMP WITH UNIT.
5. UNIT IS COOLING ONLY.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

REFERENCE	SSO-1
MANUFACTURER	MITSUBISHI
MODEL #	PUY-A24NHA7
SERVES	SSI-1
WEIGHT (LBS)	151
DIMENSIONS W/ CURB & ACCESSORIES - L x W x H (INCHES)	37x37x13
NOMINAL CAPACITY (TONS)	2.00
COOLING CAPACITY - RATED (BTU/H)	24,000
REFRIGERANT TYPE	R454B
COMPRESSOR QUANTITY	1
EFFICIENCY	
SEER	17.5
ELECTRICAL DATA	
VOLTAGE - PH	208 - 1
MCA	19
MOCP	26
NOTES	1,2,3,4

NOTES:
1. DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.
2. UNIT TO BE MOUNTED ON INTERIOR MECH ROOM WALL. REFER TO INSTALLATION DETAIL ON PLANS.
3. REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS.
4. SYSTEM REQUIRES LOW AMBIENT AIR COOLING OPERATION (-20 °F), PROVIDE LOW AMBIENT WIND BAFFLES.

EQUIPMENT CONNECTION SCHEDULE

ABBREVIATIONS:
1 NEMA 1 ENCLOSURE
3R NEMA 3R ENCLOSURE
CB CIRCUIT BREAKER IN PANEL
FAR FIRE ALARM SHUTDOWN RELAY
FDS FUSED DISCONNECT SWITCH, HEAVY DUTY
INT INTEGRAL WITH EQUIPMENT FROM FACTORY
NFD NON-FUSED DISCONNECT SWITCH, HEAVY DUTY
ST SHUNT TRIP
TS TOGGLE SWITCH

NOTES:
1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL SYSTEMS.
2. REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY.
3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R OUTDOORS.
4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

	ELECTRICAL CHARACTERISTICS					DISCONNECT				
TAG	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	REMARKS
SSI-1	208 V	1	-	-	1	NFD	30	1	-	-
SSO-1	208 V	1	-	-	19	NFD	30	3R	-	-

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,...
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 FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: ERIC HEYNEN

TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	DRIVER TYPE	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
EM	HUBBELL DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT REQUIRED	WHITE	300	LED	LED - 4000K	120 V	2 VA	SURE-LITES, LIGHTALARMS, LITHONIA
F1	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS, MULTI-VOLT REQUIRED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F2	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	SAME AS F1 BUT WALL MOUNTED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F3	ALPHABET	NU4E4-RD-SW-15LM-3-5K-90-60D-CL-WH-WH-RET-UNV	4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN SPACE	WHITE	1500	LED	LED - 3500K	120 V	16 VA	GOTHAM, PORTFOLIO

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Key Plan

Revision	Description	Date

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ELECTRICAL/MECHANICAL GENERAL NOTES & SYMBOLS LUCAS

ME000.5

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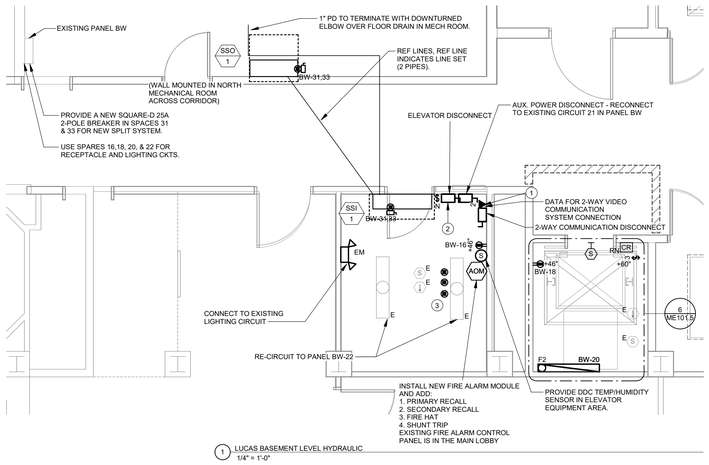
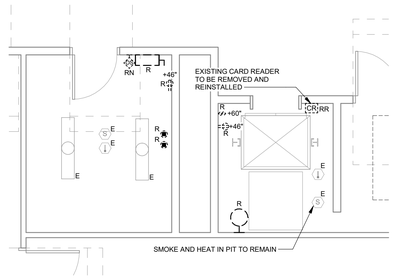


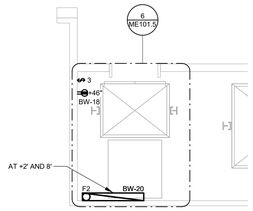
1 LUCAS BASEMENT LEVEL HYDRAULIC
1/4" = 1'-0"



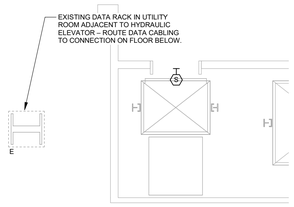
2 LUCAS BASEMENT LEVEL HYDRAULIC - DEMO
1/4" = 1'-0"

TAP-BOX FOR HYDRAULIC ELEVATOR.

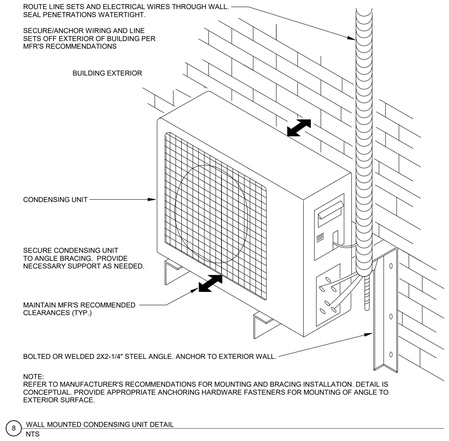
10 LUCAS HYDRAULIC TAP-BOX
NOT TO SCALE



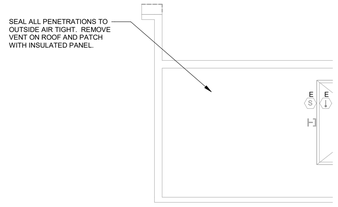
3 LUCAS LEVEL 1 HYDRAULIC
1/4" = 1'-0"



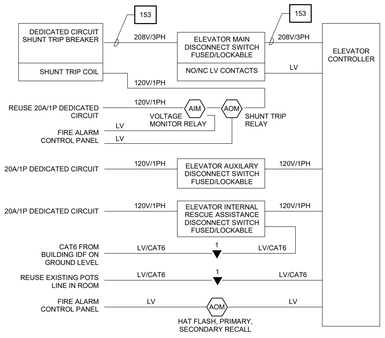
9 LUCAS GROUND LEVEL HYDRAULIC
1/4" = 1'-0"



8 WALL MOUNTED CONDENSING UNIT DETAIL
NTS

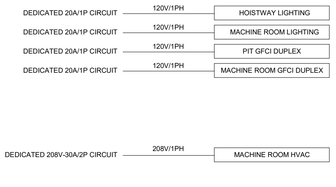


5 LUCAS LEVEL 6 HYDRAULIC - DEMO
1/4" = 1'-0"



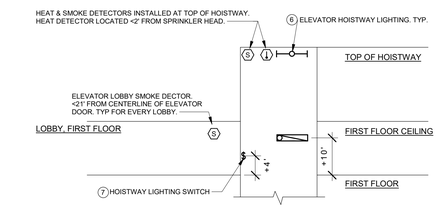
FEEDER SCHEDULE

TAG	PHASE	GROUND	CONDUCTOR MATERIAL	CONDUIT
103	1- SET (3) #3	#8	COPPER	(1) 1"
153	1- SET (3) #1/0	#6	COPPER	(1) 2"

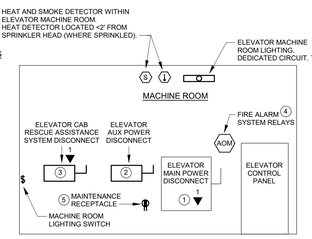


TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

7 ELEVATOR SYSTEM DETAIL
NOT TO SCALE



TYPICAL ELEVATOR HOISTWAY ELEVATION



TYPICAL ELEVATOR MACHINE ROOM

6 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

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 CEILINGS TILES DAMAGED DURING DEMOLITION.
- d. KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECCESARY 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

POWER GENERAL NOTES

A. 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.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

LIGHTING GENERAL NOTES

A. 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, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT

B. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

KEYNOTES (#)

1 ROUTE DATA CABLING TO DATA RACK LOCATED IN UILITY ROOM DIRECTLY ABOVE MACHINE ROOM.

2 EXISTING ELEVATOR FED FROM TAP-BOX LOCATED IN ELECTRICAL ROOM ACROSS FROM ELEVATOR ON BASEMENT LEVEL. ELEVATOR TO BE RE-FEED USING EXISTING TAP-BOX.

3 FIELD VERIFY LOCATIONS OF ELEVATOR CONNECTION, AUX. POWER CONNECTION, AND 2-WAY COMMUNICATION CONNECTION.

KEY NOTES:

1. FUSED, LOCKABLE 200A MAIN DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR MAIN POWER. PROVIDED WITH NO/NC LOW VOLTAGE CONTACTS.
2. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILIARY LIGHTING/VENTILATION.
3. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
4. FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.
5. DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO DISCONNECTS.
6. 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.
7. 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
8. PROVIDE A TOTAL OF 5 F1/F2 LIGHTING FIXTURES FOR SHAFT.

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Key Plan

Revision Description Date

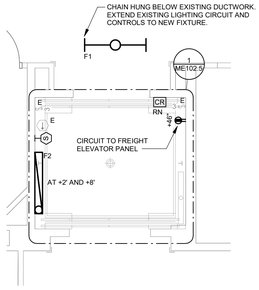
OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

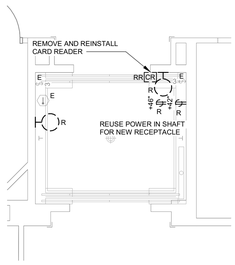
Sheet Name
ELECTRICAL/MECHANICAL LUCAS HYDRAULIC

Sheet Number
ME101.5

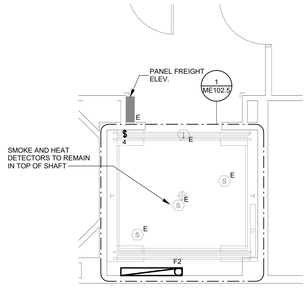
PRINTED: 3/14/2025 4:03:09 PM



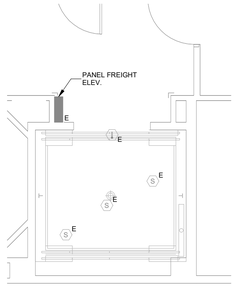
3 LUCAS BASEMENT LEVEL FREIGHT
1/4" = 1'-0"



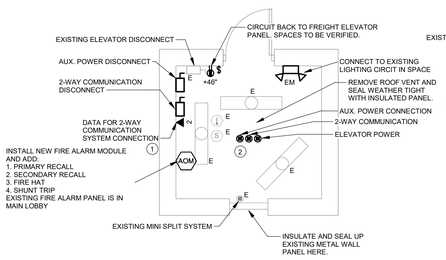
7 LUCAS BASEMENT LEVEL FREIGHT - DEMO
1/4" = 1'-0"



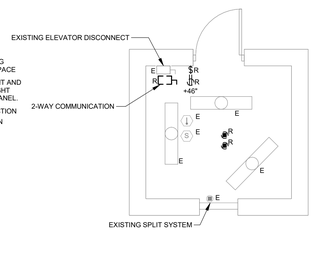
5 LUCAS TOP OF HOISTWAY FREIGHT
1/4" = 1'-0"



8 LUCAS TOP OF HOISTWAY FREIGHT - DEMO
1/4" = 1'-0"

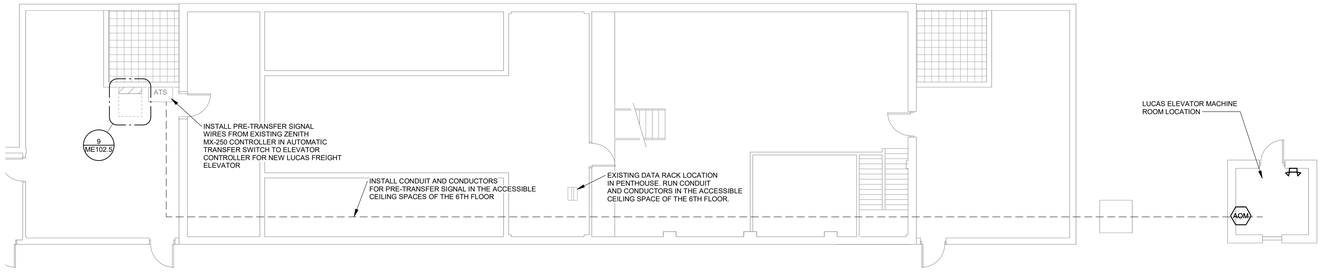


6 LUCAS MACH. RM. FREIGHT
1/4" = 1'-0"

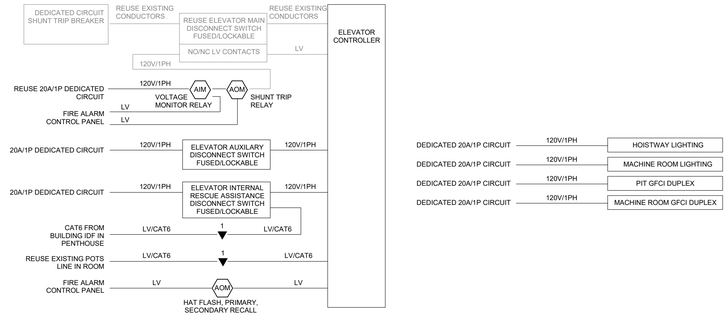


4 LUCAS MACH. RM. FREIGHT - DEMO
1/4" = 1'-0"

9 LUCAS FREIGHT ELEV DISCONNECT
1/4" = 1'-0"



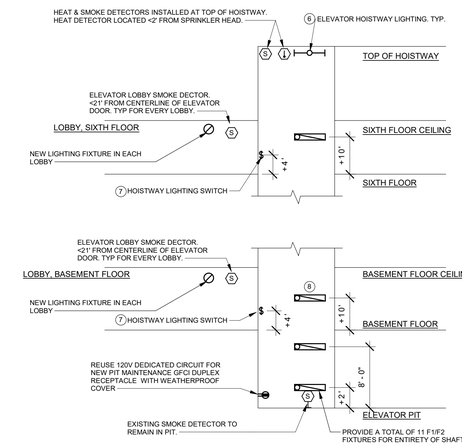
10 LUCAS PENTHOUSE
1/8" = 1'-0"



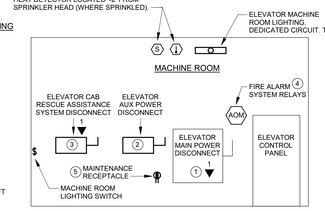
TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

DEDICATED 20A/1P CIRCUIT	120V/1PH	HOISTWAY LIGHTING
DEDICATED 20A/1P CIRCUIT	120V/1PH	MACHINE ROOM LIGHTING
DEDICATED 20A/1P CIRCUIT	120V/1PH	PIT GFCI DUPLEX
DEDICATED 20A/1P CIRCUIT	120V/1PH	MACHINE ROOM GFCI DUPLEX

2 ELEVATOR SYSTEM DETAIL
NOT TO SCALE



TYPICAL ELEVATOR HOISTWAY ELEVATION



TYPICAL ELEVATOR MACHINE ROOM

1 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

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.

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   a. REMOVE ALL CONDUIT, WIRE, BOXES, ETC., AS REQUIRED BY WALL AND CEILING DEMOLITION.
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   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.

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B. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

KEYNOTES (#)

1 DATA TO BE FEED FROM 5TH FLOOR EAST UTILITY ROOM.
2 FIELD VERIFY LOCATIONS OF ELEVATOR CONNECTION, AUX. POWER CONNECTION, AND 2-WAY COMMUNICATION CONNECTION.

KEY NOTES:

1. REUSE EXISTING BREAKER. REPLACE PLUG AS SHOWN ON DETAIL #9
2. FUSED, LOCKABLE 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILLIARY LIGHTING/VENTILATION.
3. FUSED, LOCKABLE 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
4. FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.
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8. PROVIDE A TOTAL OF 11 F1/F2 LIGHTING FIXTURES FOR SHAFT.

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Key Plan

Revision	Description	Date

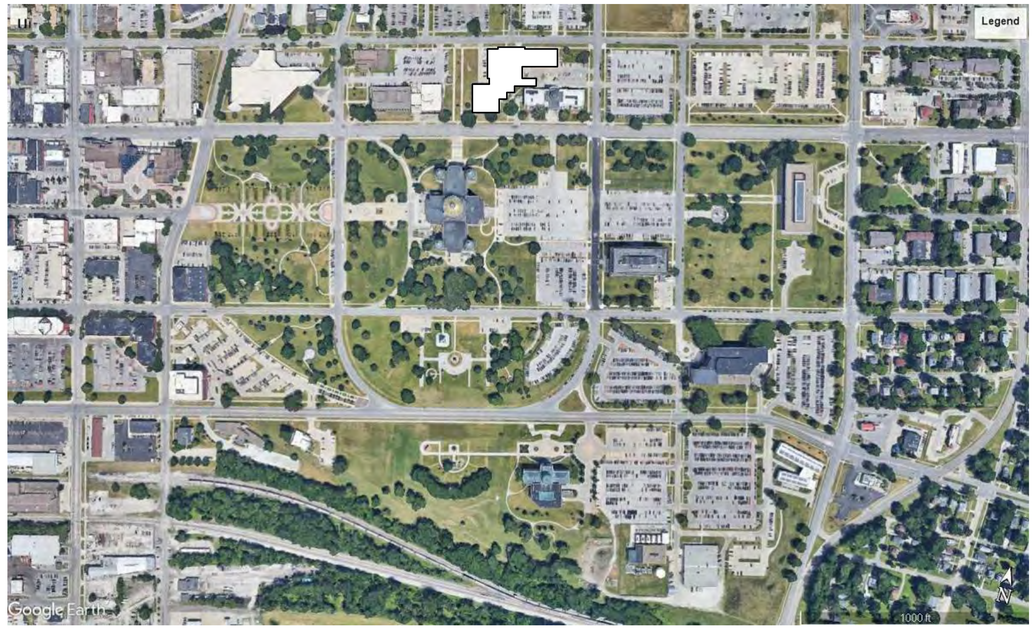
OPN Project No.
24850000

Sheet Issue Date
BID SET 03/14/2025

Sheet Name
ELECTRICAL/MECHANICAL LUCAS FREIGHT

Sheet Number
ME102.5

PROJECT LOCATION MAP



SHEET INDEX

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

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.
IBE 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 is not required per 72.13(3).
NFPA-13 Chapter 8 - Section 8.15.5
Traction Elevators:
Building is fully sprinklered. In accordance with NFPA 13-2013, sprinkler coverage will not be provided in the new elevator machine room nor at the bottom of the elevator pit (traction elevators). A sprinkler is not required a the top of the hoistway due to compliance with 8.15.5.6.

Hydraulic Elevators:
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 a the top of the hoistway due to compliance with 8.15.5.6.

STATE OF IOWA - JESSIE PARKER ELEVATOR MOD.

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1 SITE ARIEL
1" = 30'-0"

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Key Plan

Revision Description Date

OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
SITE LOGISTICS PLAN

Sheet Number
AG002.6

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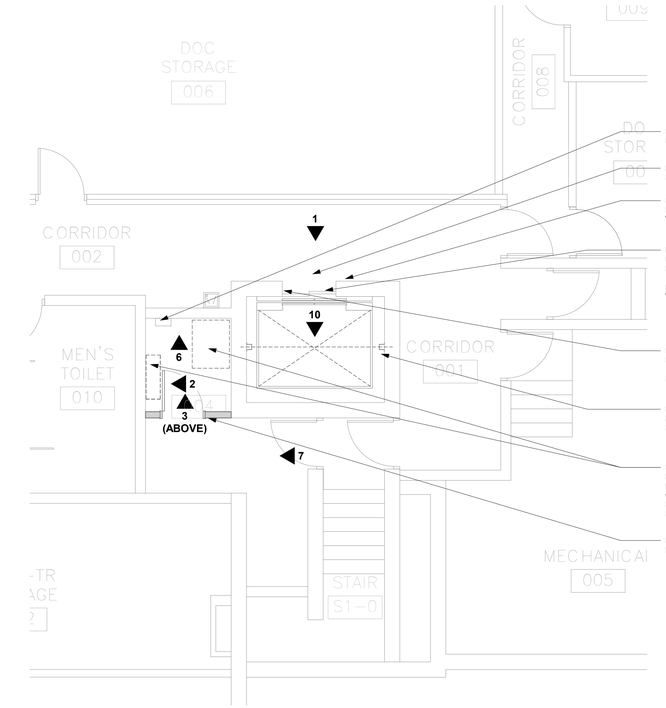


EXISTING ELECTRICAL DISCONNECT - SEE ELECTRICAL

PROTECT EXISTING FINISHES FLOOR IN PLACE

REMOVE EXISTING ELEVATOR FIXTURES AS REQ'D - SEE NEW WORK

DEMO EXISTING ELEVATOR DOORS AND ELEVATOR AS REQ'D FOR NEW ELEVATOR INSTALLATION - SEE VT DRAWINGS FOR ADDITIONAL WORK AND ANY EXISTING ITEMS TO REMAIN.

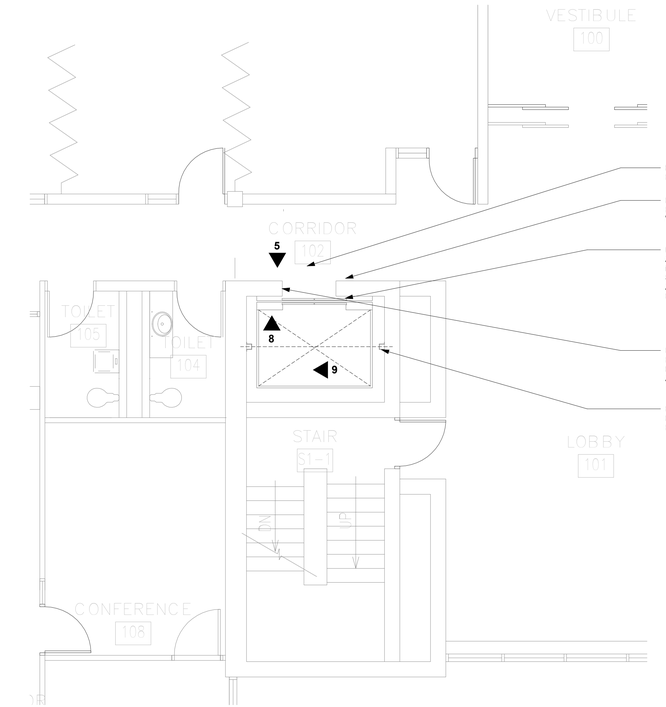
EXISTING ELEVATOR DOOR FRAMES TO REMAIN, PROTECT IN PLACE - SEE VT DRAWINGS FOR ADDITIONAL WORK

EXISTING ELEVATOR RAILS TO REMAIN - SEE VT DRAWINGS FOR ADDITIONAL WORK

EXISTING ELEVATOR EQUIPMENT TO BE REMOVED, PROTECT IN PLACE - SEE VT DRAWINGS FOR ADDITIONAL WORK. CONTRACTOR TO MAKE SURE THAT EXISTING PHONE LINE IS MAINTAINED FOR REUSE IN MODERNIZATION.

EXISTING WALL AND DOOR TO REMAIN - PROTECT IN PLACE.

1 DEMO GROUND FLOOR PLAN - NORTH
1/4" = 1'-0"



PROTECT EXISTING FINISHES FLOOR IN PLACE

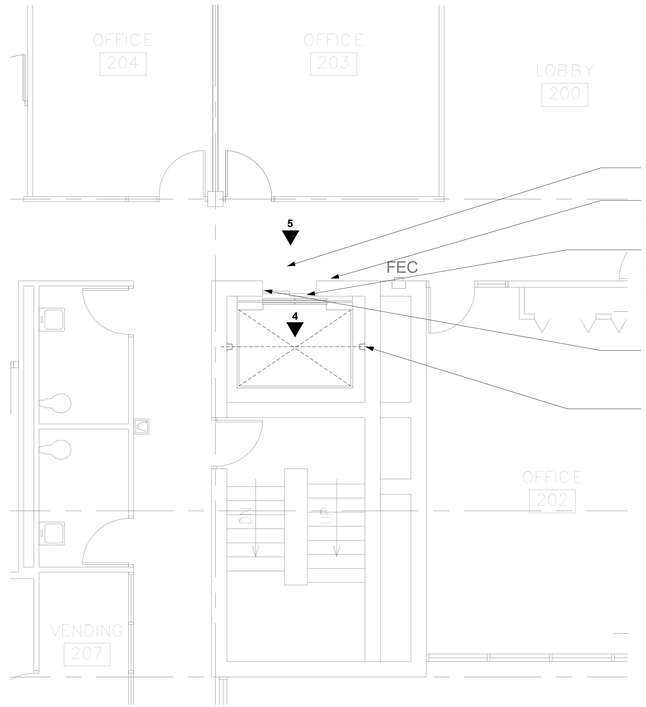
REMOVE EXISTING ELEVATOR FIXTURES COMPLETE- SEE NEW WORK

DEMO EXISTING ELEVATOR DOORS AND ELEVATOR AS REQ'D FOR NEW ELEVATOR INSTALLATION - SEE VT SPECIFICATIONS FOR ADDITIONAL WORK AND ANY EXISTING ITEMS TO REMAIN.

EXISTING ELEVATOR DOOR FRAMES TO REMAIN, PROTECT IN PLACE - SEE VT DRAWINGS FOR ADDITIONAL WORK

EXISTING ELEVATOR RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR ADDITIONAL WORK

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



PROTECT EXISTING FINISHES FLOOR IN PLACE

REMOVE EXISTING ELEVATOR FIXTURES AS REQ'D - SEE NEW WORK

DEMO EXISTING ELEVATOR DOORS AND ELEVATOR AS REQ'D FOR NEW ELEVATOR INSTALLATION - SEE VT DRAWINGS FOR ADDITIONAL WORK AND ANY EXISTING ITEMS TO REMAIN.

EXISTING ELEVATOR DOOR FRAMES TO REMAIN, PROTECT IN PLACE - SEE VT DRAWINGS FOR ADDITIONAL WORK

EXISTING ELEVATOR RAILS TO REMAIN - SEE VT DRAWINGS FOR ADDITIONAL WORK

3 DEMO LEVEL 2 FLOOR PLAN - NORTH
1/4" = 1'-0"

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Key Plan

Revision Description Date

OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
DEMO FLOOR PLANS - NORTH

Sheet Number
AD100.6

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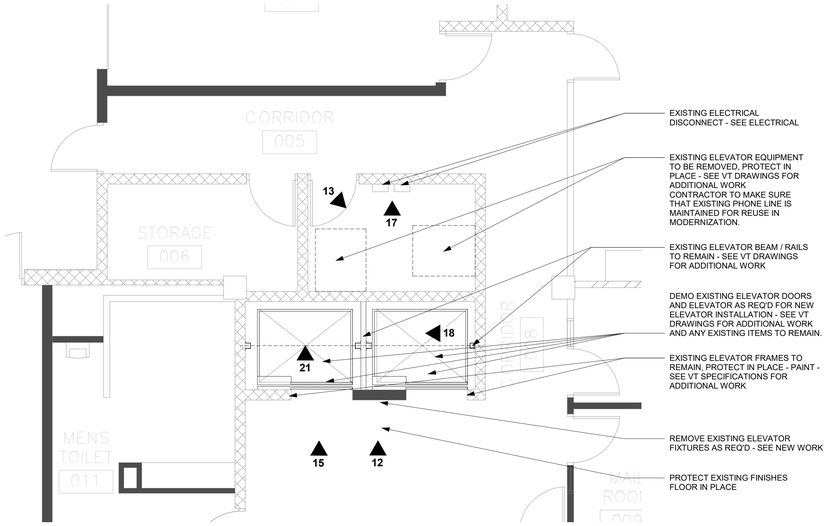
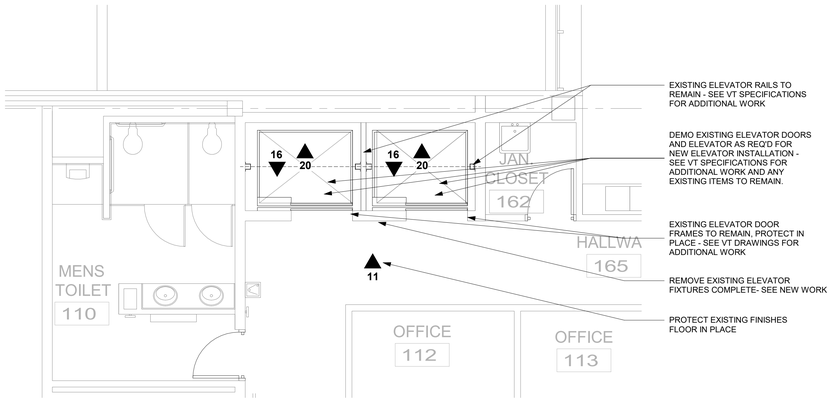
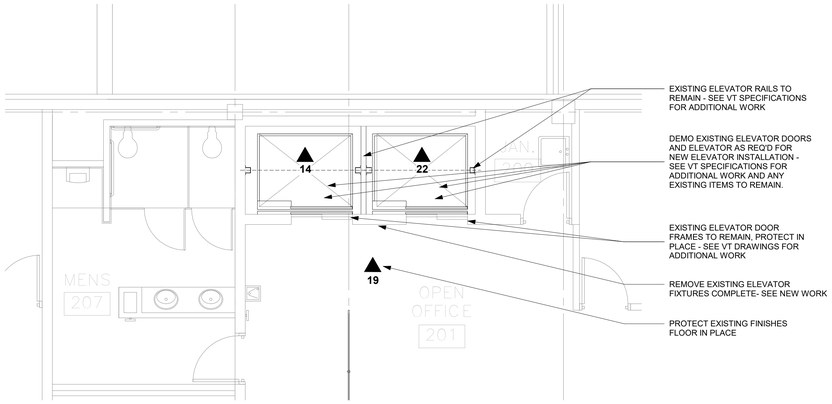


M2 DEMO GROUND FLOOR PLAN - SOUTH
1/4" = 1'-0"



D2 DEMO LEVEL 1 FLOOR PLAN - SOUTH
1/4" = 1'-0"



D16 DEMO LEVEL 2 FLOOR PLAN - SOUTH
1/4" = 1'-0"

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Key Plan

Revision Description Date

OPN Project No.
24850000

Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
DEMO FLOOR PLANS - SOUTH

Sheet Number
AD101.6

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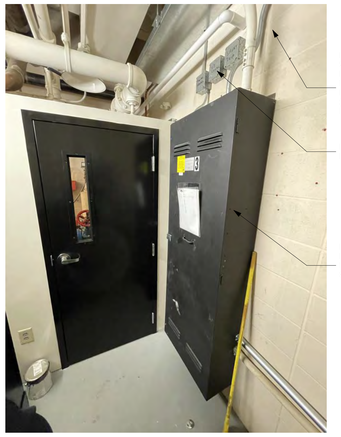
EXISTING FRAME TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK - PROTECT EXISTING METAL FRAME DURING CONSTRUCTION. PREP FRAMES TO RECEIVE NEW PAINT - FILL IN ANY SCRATCHES / DINGS IN FRAMES AS REQUIRED. TYPICAL ALL FRAMES. PROVIDE NEW DOORS TO MATCH.

REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP. ALL DOORS.

PROVIDE NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE.

PROTECT IN PLACE EXISTING FLOORING & WALL BASE AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP

1 IMAGE 1

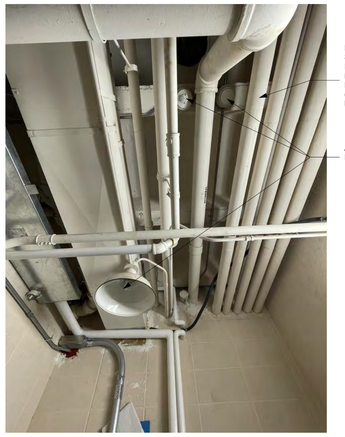


PROVIDE NEW DRYWALL CEILING IN SPACE TO SEPARATE MACHINE ROOM FROM PIPING DUCTWORK ABOVE. SIZE METAL FRAMING TO BE SIZED TO PROVIDE A 300 LB LIVE LOAD. PROVIDE (1) LAYER EACH SIDE OF STUDS WITH LAYER OF DRYWALL ON TOP.

REVISE CONNECTIONS AS REQUIRED FOR NEW MACHINE ROOM CEILING.

DEMO EXISTING ELEVATOR EQUIPMENT COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS FOR COMPLETE SCOPE.

2 IMAGE 2



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ADJUST DETECTION AND LIGHTING AS REQUIRED FOR NEW CEILING.

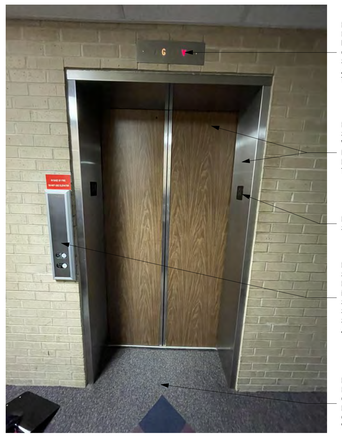
3 IMAGE 3

PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE ELECTRICAL.

EXISTING DETECTION - SEE ELECTRICAL FOR SCOPE.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

4 IMAGE 4



REMOVE AND REPLACE EXISTING ELEVATOR SIGNALS - COORDINATE LOCATION OF NEW SIGNAGE WITH CURRENT LOCATION - STAINLESS STEEL FINISH.
ALL NEW FIXTURES TO BE RECESSED - TYP.

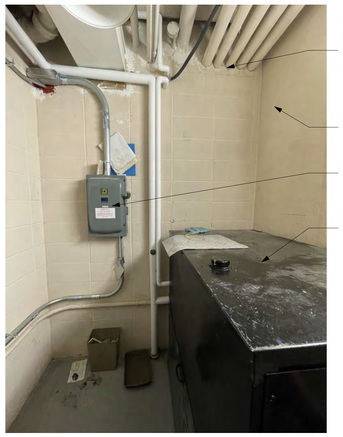
EXISTING FRAME TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK - PROTECT EXISTING METAL FRAME DURING CONSTRUCTION.
PROVIDE NEW ST. STL DOOR TO MATCH. TYPICAL AT BOTH UPPER FLOORS.

REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP. ALL DOORS.

PROVIDE NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE.

PROTECT IN PLACE EXISTING FLOORING AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP

5 IMAGE 5



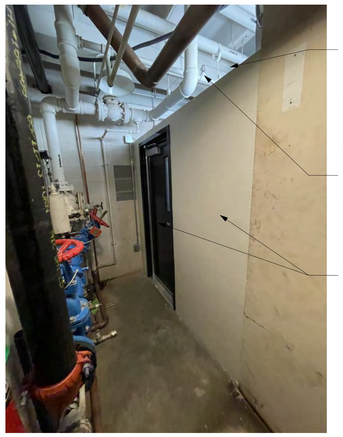
PROVIDE NEW DRYWALL CEILING IN SPACE TO SEPARATE MACHINE ROOM FROM PIPING DUCTWORK ABOVE. SIZE METAL FRAMING TO PROVIDE A 300 LB LIVE LOAD. PROVIDE (1) LAYER DRYWALL AT EACH SIDE OF STUDS WITH LAYER OF PLYWOOD ON TOP.

PROVIDE NEW MACHINE ROOM CONDITIONING - SEE MECHANICAL.

EXISTING ELECTRICAL DISCONNECTS - SEE ELECTRICAL.

DEMO EXISTING ELEVATOR EQUIPMENT COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS FOR COMPLETE SCOPE.

6 IMAGE 6



PROVIDE NEW DRYWALL CEILING IN SPACE TO SEPARATE MACHINE ROOM FROM PIPING DUCTWORK ABOVE. SIZE METAL FRAMING TO BE SIZED TO PROVIDE A 300 LB LIVE LOAD. PROVIDE (1) LAYER EACH SIDE OF STUDS WITH LAYER OF DRYWALL ON TOP.
HEIGHT TO ALIGN WITH TOP OF EXISTING WALL. VERIFY ALL CODE REQUIRED CLEARANCES ARE MET.

ADJUSTMENT AND LAYOUT OF SPRINKLER WORK WILL BE COORDINATED AND PERFORMED BY OWNER. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR SEALING ALL RELATED PENETRATIONS.

EXISTING ELEVATOR MACHINE ROOM DIVIDER WALL AND DOOR.

7 IMAGE 7

PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE VT SPECIFICATIONS FOR REQUIREMENTS.
MATCH FLOOR DESIGNATIONS.

PROVIDE NEW ST. STL ENTRY DOOR.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.

8 IMAGE 8

PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE VT SPECIFICATIONS FOR REQUIREMENTS.
MATCH FLOOR DESIGNATIONS.

PROVIDE NEW ST. STL ENTRY DOOR.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.

9 IMAGE 9

REMOVE AND PROVIDE NEW CODE COMPLIANT ELEVATOR PIT LADDER.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE ELECTRICAL.

10 IMAGE 10

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Key Plan

Revision	Description	Date

OPN Project No.
24850000

Sheet Issue Date
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Sheet Name
EXISTING CONDITIONS

Sheet Number
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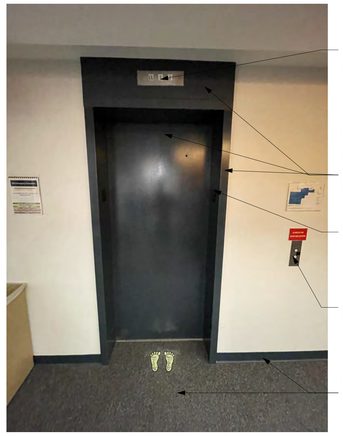


REMOVE AND REPLACE EXISTING ELEVATOR SIGNALS - COORDINATE LOCATION OF NEW SIGNAGE WITH CURRENT LOCATION - STAINLESS STEEL FINISH.
ALL NEW FIXTURES TO BE RECESSED - TYP.

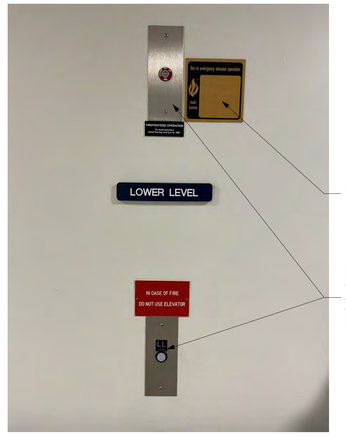
EXISTING FRAME TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK - PROTECT EXISTING METAL FRAME DURING CONSTRUCTION.
PREP FRAMES TO RECEIVE NEW PAINT - FILL IN ANY SCRATCHES / DINGS IN FRAMES AS REQUIRED. TYPICAL ALL FRAMES. PROVIDE NEW FINISHED DOORS TO MATCH.

REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP. ALL DOORS.

PROVIDE BACKPLATE FOR NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS.

PROTECT IN PLACE EXISTING FLOORING & WALL BASE AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP

11 IMAGE 11



REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP.

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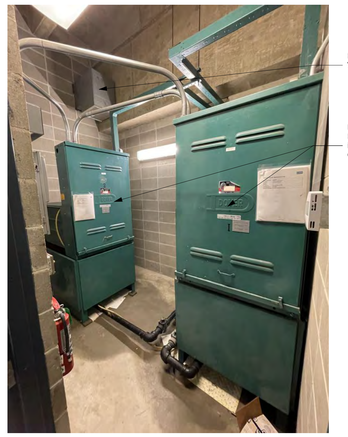
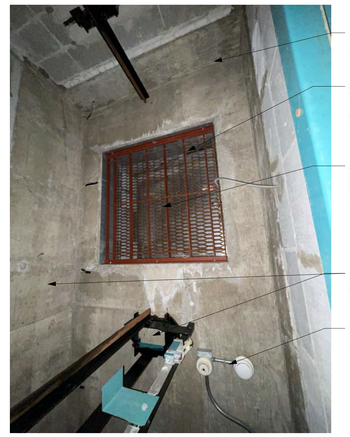
12 IMAGE 12



EXISTING MACHINE ROOM VENTILATION TO REMAIN.

DEMO EXISTING ELEVATOR EQUIPMENT COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS FOR COMPLETE SCOPE.

13 IMAGE 13



PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE ELECTRICAL.

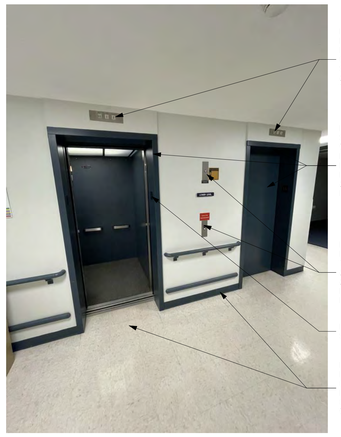
INTENT IS TO CLOSE OFF EXHAUST VENT. PROVIDE BREAK METAL CLOSURE AT INTERIOR OF SPACE, AND FILL CAVITY WITH RIGID INSULATION AND SPRAY FOAM.

AT ROOF, REMOVE VENT COVER, PROVIDE A WEATHER BARRIER AND WEATHER TIGHT SHEET METAL CAP.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

EXISTING ELEVATOR DETECTION - SEE ELECTRICAL.

14 IMAGE 14



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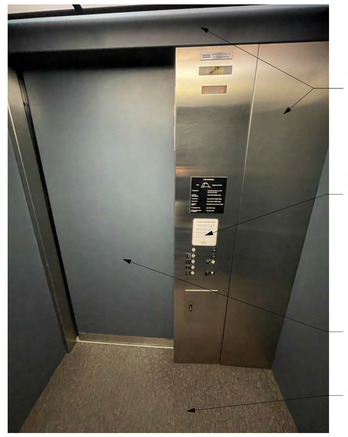
PROTECT IN PLACE EXISTING FLOORING & WALL BASE AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP

15 IMAGE 15



PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE VT SPECIFICATIONS FOR REQUIREMENTS.
MATCH FLOOR DESIGNATIONS.

PROVIDE NEW ST. STL ENTRY DOOR.

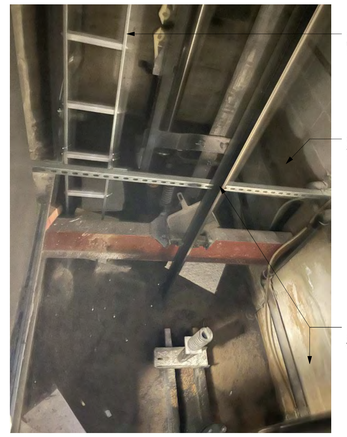
PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.

16 IMAGE 16

EXISTING MACHINE ROOM LIGHTING - SEE ELECTRICAL.

EXISTING ELECTRICAL DISCONNECTS - SEE ELECTRICAL.

17 IMAGE 17

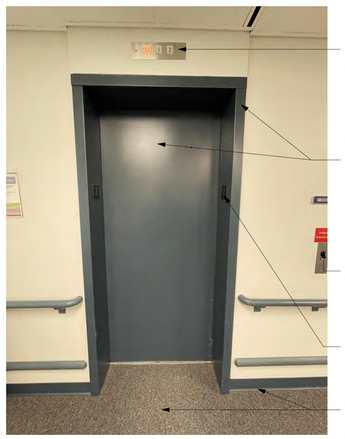


REMOVE AND PROVIDE NEW CODE COMPLIANT ELEVATOR PIT LADDER.

PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE ELECTRICAL.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

18 IMAGE 18



REMOVE AND REPLACE EXISTING ELEVATOR SIGNALS - COORDINATE LOCATION OF NEW SIGNAGE WITH CURRENT LOCATION - STAINLESS STEEL FINISH.
ALL NEW FIXTURES TO BE RECESSED - TYP.

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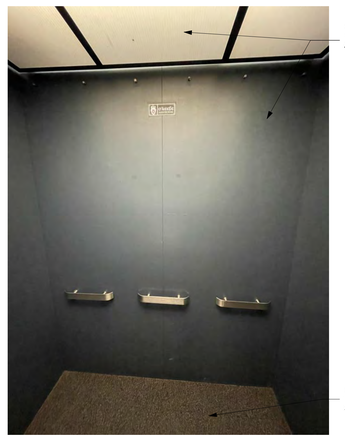
REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP. ALL DOORS.

PROTECT IN PLACE EXISTING FLOORING & WALL BASE AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP

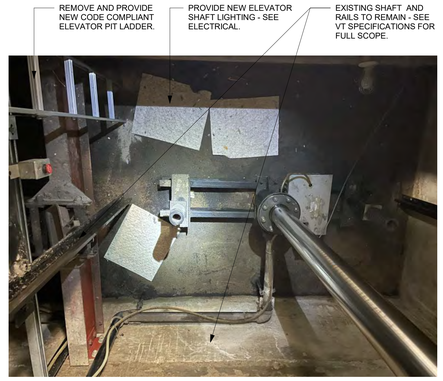
19 IMAGE 19



PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.

20 IMAGE 20

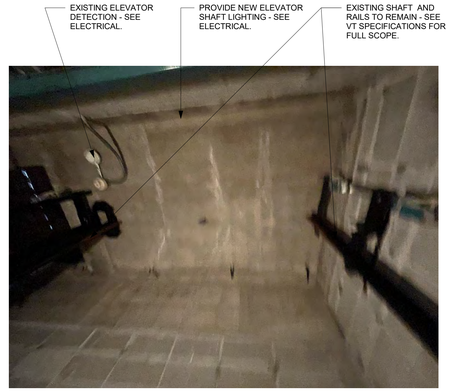


REMOVE AND PROVIDE NEW CODE COMPLIANT ELEVATOR PIT LADDER.

PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE ELECTRICAL.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

21 IMAGE 21



EXISTING ELEVATOR DETECTION - SEE ELECTRICAL.

PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE ELECTRICAL.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

22 IMAGE 22

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Key Plan

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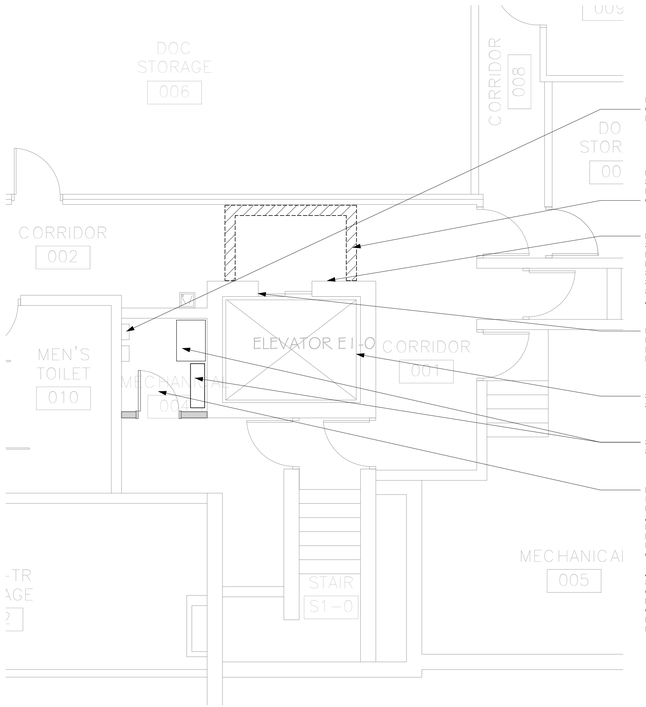


ELECTRICAL DISCONNECTS - COORDINATE LOCATION WITH ELEVATOR EQUIPMENT.

PROVIDE TEMPORARY WOOD SHEATHING PARTITION WALL WITH DOOR. MAINTAIN ACCESS TO ELEVATOR CALL STATIONS AT ALL TIMES.

PROVIDE NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE.

ELECTRO-STATICALLY PAINT ENTIRE EXISTING ELEVATOR FRAME TO MATCH NEW ELEVATOR DOORS

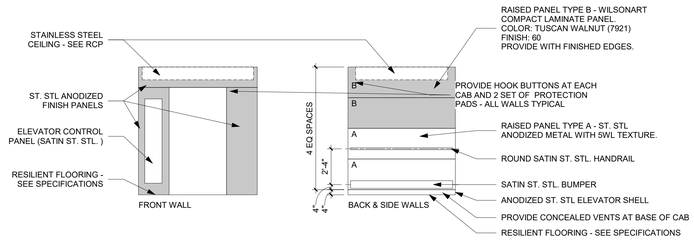
SEE VT DRAWINGS FOR FULL SCOPE OF WORK

SEE VT DRAWINGS FOR FULL SCOPE OF WORK

PROVIDE NEW DRYWALL CEILING IN SPACE TO SEPARATE MACHINE ROOM FROM PIPING DUCTWORK ABOVE. SIZE METAL FRAMING TO PROVIDE A 300 LB LIVE LOAD. PROVIDE (1) LAYER DRYWALL AT EACH SIDE OF STUDS WITH LAYER OF PLYWOOD ON TOP.

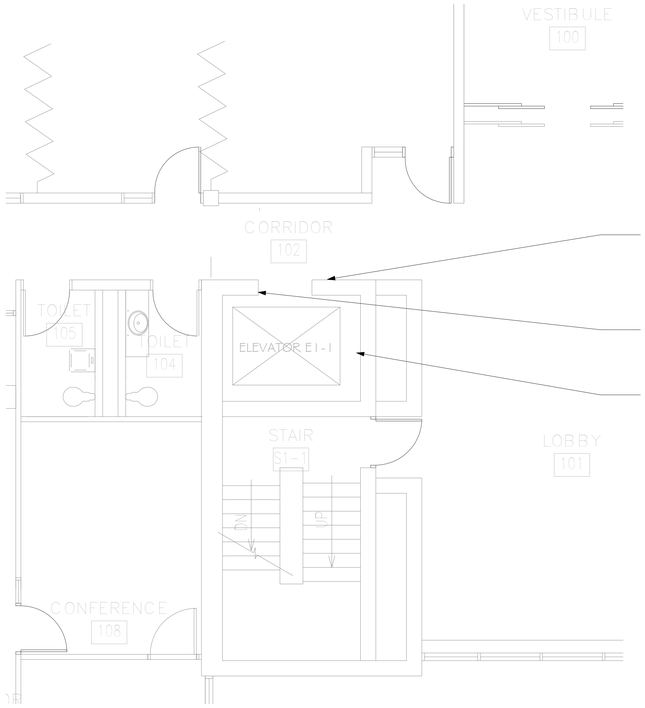
ADJUSTMENT AND LAYOUT OF SPRINKLER WORK WILL BE COORDINATED AND PERFORMED BY OWNER. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR SEALING ALL RELATED PENETRATIONS.

L2 DEMO GROUND FLOOR PLAN Copy 2
1/4" = 1'-0"



R12 ELEVATOR CAB ELEVATION - NORTH
1/4" = 1'-0"

N12 ELEVATOR CAB REFLECTED CEILING PLAN - NORTH
1/4" = 1'-0"



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ELECTRO-STATICALLY PAINT ENTIRE EXISTING ELEVATOR FRAME TO MATCH NEW ELEVATOR DOORS

SEE VT DRAWINGS FOR FULL SCOPE OF WORK

B2 DEMO LEVEL 1 FLOOR PLAN Copy 2
1/4" = 1'-0"

PROVIDE TEMPORARY WOOD SHEATHING PARTITION WALL WITH DOOR. MAINTAIN ACCESS TO ELEVATOR CALL STATIONS AT ALL TIMES.

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ELECTRO-STATICALLY PAINT ENTIRE EXISTING ELEVATOR FRAME TO MATCH NEW ELEVATOR DOORS

SEE VT DRAWINGS FOR FULL SCOPE OF WORK

B12 DEMO LEVEL 2 FLOOR PLAN Copy 2
1/4" = 1'-0"

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Key Plan

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FLOOR PLANS - NORTH

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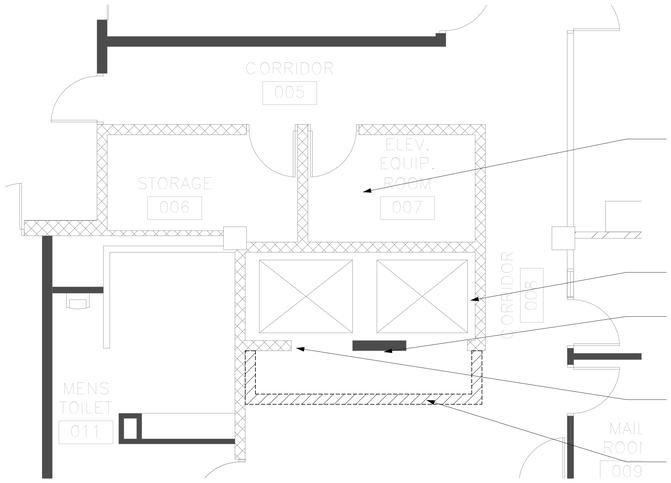

SEE VT DRAWINGS FOR FULL SCOPE OF WORK

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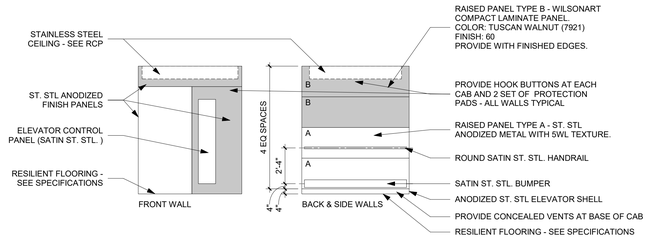
ELECTRO-STATICALLY PAINT ENTIRE EXISTING ELEVATOR FRAME TO MATCH NEW ELEVATOR DOORS

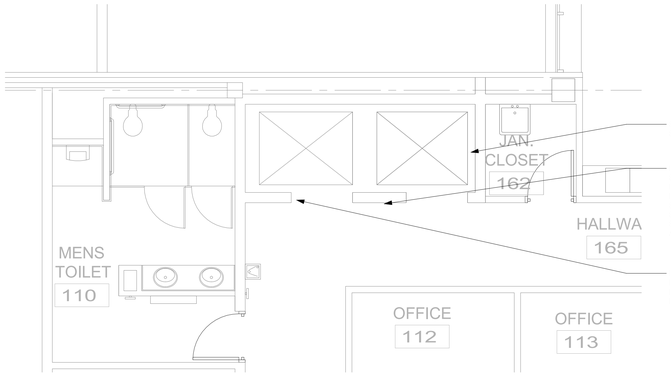
PROVIDE TEMPORARY WOOD SHEATHING PARTITION WALL WITH DOOR. MAINTAIN ACCESS TO ELEVATOR CALL STATIONS AT ALL TIMES.

M2 DEMO GROUND FLOOR PLAN Copy 1 Copy 1
1/4" = 1'-0"



Q16 ELEVATOR CAB ELEVATION - SOUTH
1/4" = 1'-0"

M16 ELEVATOR CAB REFLECTED CEILING PLAN - SOUTH
1/4" = 1'-0"

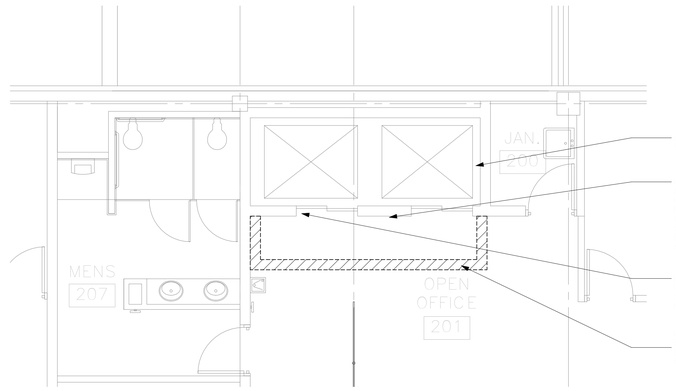


SEE VT DRAWINGS FOR FULL SCOPE OF WORK

PROVIDE NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE.

ELECTRO-STATICALLY PAINT ENTIRE EXISTING ELEVATOR FRAME TO MATCH NEW ELEVATOR DOORS

D2 DEMO LEVEL 1 FLOOR PLAN Copy 1 Copy 1
1/4" = 1'-0"



SEE VT DRAWINGS FOR FULL SCOPE OF WORK

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D16 DEMO LEVEL 2 FLOOR PLAN Copy 1 Copy 1
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Key Plan

Revision	Description	Date

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FLOOR PLANS - SOUTH

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MECHANICAL - GENERAL NOTES

1. 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.
2. INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
3. 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.
4. EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
5. COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
6. CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
7. 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.
8. PROVIDE WARRANTIES FOR ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS, PARTS ONLY, NON-PRORATED, FROM THE DATE OF OCCUPANCY OR SUBSTANTIAL COMPLETION, OR WHICHEVER OCCURS FIRST. THE WARRANTY SHALL COVER COMPRESSORS, EVAPORATORS, CONDENSER COILS, HIGH AND LOW SIDE PIPING, AND PIPING SPECIALTIES INCLUDING EXPANSION AND SOLENOID VALVES, RELIEF VALVES, FILTER-DRYER, AND SIGHT GLASSES. PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY DOES NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM THE OWNER'S ACCIDENT, IMPROPER OPERATION, OR FAILURE TO PROVIDE MAINTENANCE. WARRANTY COVERS DEFECTIVE MATERIAL AND INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

HVAC - NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. PROVIDE MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.
3. PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.
4. CONTINUE PIPE INSULATION THROUGH WALLS, FLOORS, AND CEILING PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED IN DUCTWORK.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

REFERENCE	SSI-1
MANUFACTURER	MITSUBISHI
MODEL #	PKA-A24
TYPE	WALL MOUNT
SERVES	HOOVER PENTHOUSE
WEIGHT (LBS)	46
DIMENSIONS - L x W x D (INCHES)	46x14x11
NOMINAL CAPACITY (TONS)	2.00
MAX UNIT AIRFLOW (CFM)	775
EXTERNAL STATIC PRESSURE (IN. W.G.)	0.2
COOLING CAPACITY - RATED (BTU/H)	24
SEER	21.1
REFRIGERANT TYPE	R454B
VOLTAGE - PH	208 - 1
ELECTRICAL DATA	
MCA	1.00
MOCP	SEE SSO SCHEDULE
NOTES	1 THROUGH 5

NOTES:
1. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C.
2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING INSTALLATION AND DISCONNECT BY E.C.
3. COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°FF, OUTDOOR: 95°F/75°F
4. PROVIDE FILTER WITH UNIT.
5. UNIT IS COOLING ONLY.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

REFERENCE	SSO-1
MANUFACTURER	MITSUBISHI
MODEL #	PUY-A24NHA7
SERVES	SSI-1
WEIGHT (LBS)	151
DIMENSIONS W/ CURB & ACCESSORIES - L x W x H (INCHES)	37x37x13
NOMINAL CAPACITY (TONS)	2.00
COOLING CAPACITY - RATED (BTU/H)	24,000
REFRIGERANT TYPE	R454B
COMPRESSOR QUANTITY	1
EFFICIENCY	
SEER	17.5
ELECTRICAL DATA	
VOLTAGE - PH	208 - 1
MCA	19
MOCP	26
NOTES	1,2,3,4

NOTES:
1. DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.
2. UNIT TO BE MOUNTED ON EXTERIOR SIDEWALL. REFER TO INSTALLATION DETAIL ON PLANS.
3. REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS.
4. SYSTEM REQUIRES LOW AMBIENT AIR COOLING OPERATION (-20 °F), PROVIDE LOW AMBIENT WIND BAFFLES.

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ELECTRICAL ABBREVIATIONS

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

GENERAL NOTES - ELECTRICAL

1. 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.
2. 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

1. INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
2. 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.
3. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
4. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
5. 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)
6. 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

1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
2. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
3. INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG –AMERICANS WITH DISABILITIES ACT.
4. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
5. 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

1. PROVIDE NORMAL WIRING DEVICES AS GRAY UNLESS OTHERWISE NOTED.
2. PROVIDE EMERGENCY WIRING DEVICES AS ORANGE UNLESS OTHERWISE NOTED.
3. PROVIDE DEVICES COVER PLATES AS STAINLESS STEEL. MATCH WIRING DEVICES COLOR.
4. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
5. INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED.
6. AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

FIRE DETECTION & ALARM NOTES

1. INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
2. INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
3. FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
4. ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN ¾" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
5. ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER SPECIFICATION.

COMMUNICATION NOTES

1. REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT LOCATIONS.
2. INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

LIGHTING SYMBOLS

- a — RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
- RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
- ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
- SURFACE MOUNTED STRIP FIXTURE
- LINEAR PENDANT MOUNTED FIXTURE
- INDUSTRIAL STRIP LIGHT 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
- EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- $ a — SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $3 b — THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $P c — PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- $D d — DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG
- S1 e — LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- ETD — EMERGENCY TRANSFER DEVICE

TECHNOLOGY RESPONSIBILITY MATRIX

PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI
COMMUNICATIONS - TELECOM SYSTEMS:			
ROUGH-IN, PATHWAYS AND SLEEVES			●
RACKS, FRAMES AND ENCLOSURES		REUSE EXISTING	
COPPER HORIZONTAL CABLING			●
DATA COMMUNICATIONS SWITCHES AND HUBS		REUSE EXISTING	
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			●
SECURITY - VIDEO SURVEILLANCE:			
ROUGH-IN, PATHWAYS AND SLEEVES	N/A	N/A	N/A
CAMERA(S)	N/A	N/A	N/A
HEAD END EQUIPMENT AND COMPONENTS	N/A	N/A	N/A
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)			●

● 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 APPERTUNANCES 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.
B.

GENERAL SYMBOLS

- CONDUIT SLEEVE
- CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
- CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
- J — JUNCTION BOX, CEILING OR FLOOR MOUNTED.
- J — JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
- # — KEYNOTE
- XXX / X — EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
- 1 / A101 SIM — DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
- 1 / A101 SIM — SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
- A101 / 1 ref — INTERIOR ELEVATION DRAWING REFERENCE TAG
- 1 — DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNTED
- DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT
- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE.
- W — DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT
- 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
- SPD — SURGE PROTECTIVE DEVICE
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - RECESSED IN WALL
- DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

TEMPERATURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C

- T — THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- H — HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- C — CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- S — TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

EQUIPMENT CONNECTION SCHEDULE

ABBREVIATIONS:

1	NEMA 1 ENCLOSURE	INT	INTEGRAL WITH EQUIPMENT FROM FACTORY
3R	NEMA 3R ENCLOSURE	NFD	NON-FUSED DISCONNECT SWITCH, HEAVY DUTY
CB	CIRCUIT BREAKER IN PANEL	ST	SHUNT TRIP
FAR	FIRE ALARM SHUTDOWN RELAY	TS	TOGGLE SWITCH
FDS	FUSED DISCONNECT SWITCH, HEAVY DUTY		

NOTES:
1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL SYSTEMS.
2. REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY.
3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R OUTDOORS.
4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

TAG	ELECTRICAL CHARACTERISTICS: VOLTAGE	PHASE	MOTOR HP	KW	MCA	DISCONNECT: TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	REMARKS
SSI-1	208 V	1	-	-	1	NFD	30	1	-	-
SSO-1	208 V	1	-	-	19	NFD	30	3R	-	-

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,...
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 FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: ERIC HEYNEN

TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	DRIVER TYPE	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
EM	HUBBELL DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT REQUIRED	WHITE	300	LED	LED - 4000K	120 V	2 VA	SURE-LITES, LIGHTALARMS, LITHONIA
F1	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS, MULTI-VOLT REQUIRED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F2	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	SAME AS F1 BUT WALL MOUNTED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F3	ALPHABET	NU4E4-RD-SW-15LM-35K-90-60D-CL-WH-WH-RET-UNV	4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN SPACE	WHITE	1500	LED	LED - 3500K	120 V	16 VA	GOTHAM, PORTFOLIO

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Key Plan

Revision Description Date

OPN Project No.
24850000

Sheet Issue Date
BID SET 03/14/2025

Sheet Name
ELECTRICAL/MECHANICAL GENERAL NOTES & SYMBOLS JESSIE PARKER

ME000.6

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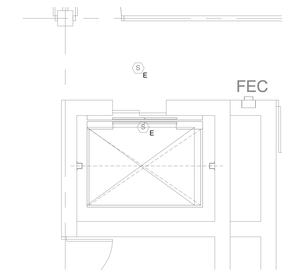
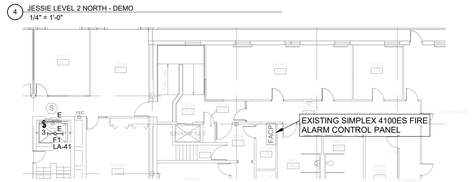


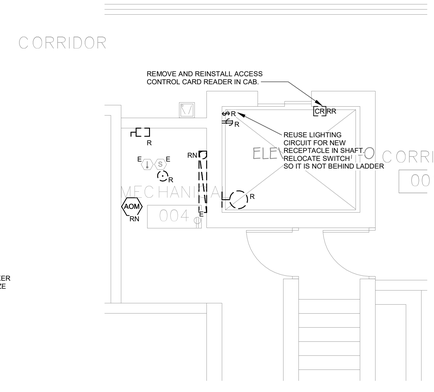
4 JESSIE LEVEL 2 NORTH - DEMO
1/4" = 1'-0"



3 JESSIE LEVEL 2 NORTH
1/16" = 1'-0"

REPLACE EXISTING BREAKER WITH NEW SHUNT TRIP BREAKER TO MATCH NEW ELEVATOR SIZE

8 JESSIE PARKER NORTH BREAKER
3/32" = 1'-0"



2 JESSIE LEVEL B NORTH - DEMO
1/4" = 1'-0"

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 CEILINGS TILES DAMAGED DURING DEMOLITION.
- d. KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECCESARY 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 SPECIFALLY 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

POWER GENERAL NOTES

A. 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.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.

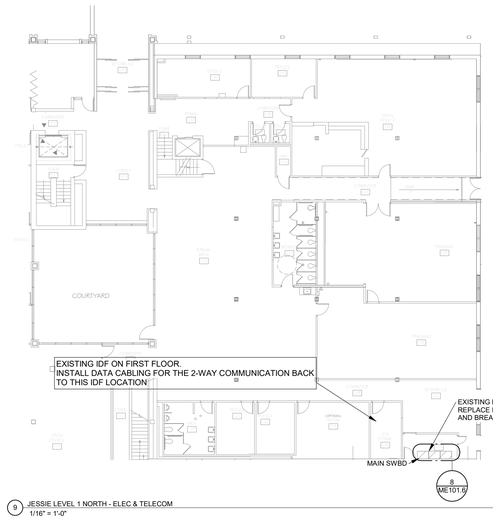
C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

LIGHTING GENERAL NOTES

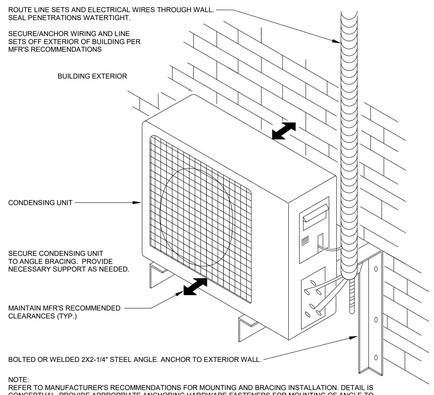
A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT

B. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

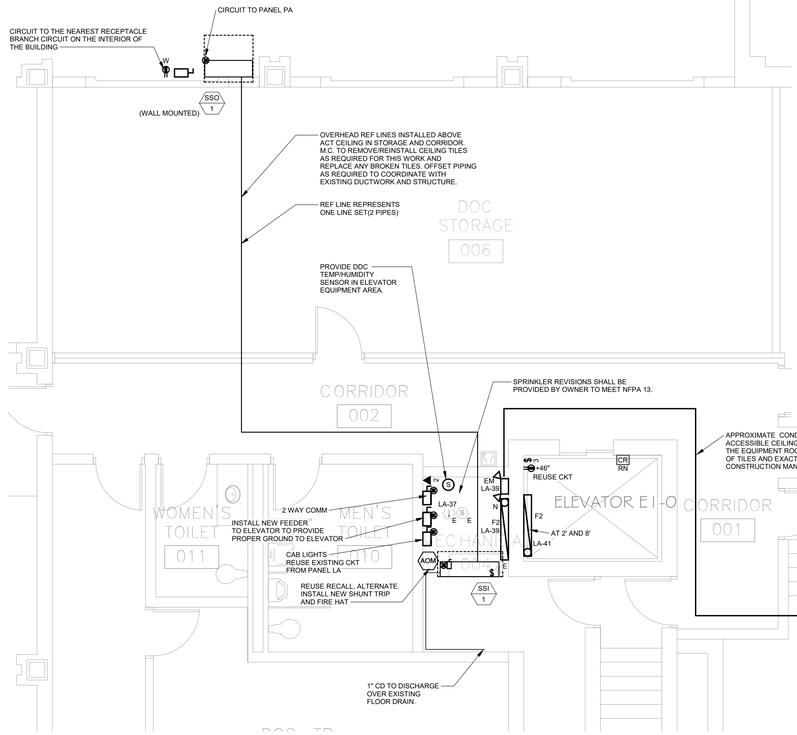
KEYNOTES (#)



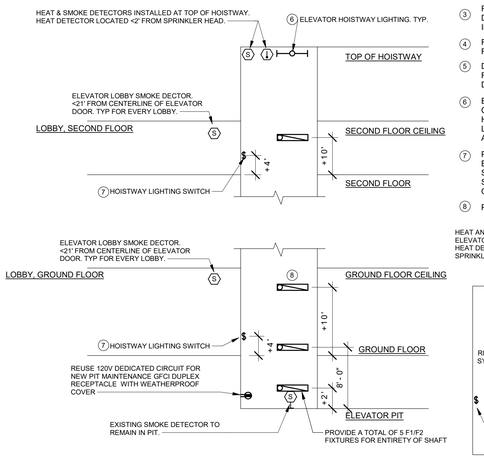
9 JESSIE LEVEL 1 NORTH - ELEC & TELECOM
1/16" = 1'-0"



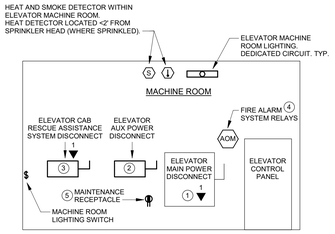
7 WALL MOUNTED CONDENSING UNIT DETAIL
NTS



1 JESSIE LEVEL B NORTH
1/4" = 1'-0"



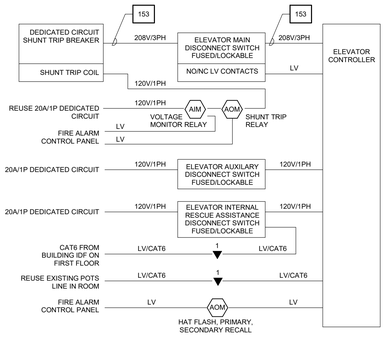
TYPICAL ELEVATOR HOISTWAY ELEVATION



TYPICAL ELEVATOR MACHINE ROOM

KEY NOTES:

1. FUSED, LOCKABLE 200A MAIN DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR MAIN POWER. PROVIDED WITH NO/NC LOW VOLTAGE CONTACTS.
2. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILIARY LIGHTING/VENTILATION.
3. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
4. FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.
5. DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO DISCONNECTS.
6. 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.
7. 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
8. PROVIDE A TOTAL OF 5 F1/F2 LIGHTING FIXTURES FOR SHAFT.



TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

FEEDER SCHEDULE

TAG	PHASE	GROUND	CONDUCTOR MATERIAL	CONDUIT
103	1- SET (3) #3	#8	COPPER	(1) 1"
153	1- SET (3) #1/0	#6	COPPER	(1) 2"

DEDICATED 20A/1P CIRCUIT	120V/1PH	HOISTWAY LIGHTING
DEDICATED 20A/1P CIRCUIT	277V/1PH	MACHINE ROOM LIGHTING
DEDICATED 20A/1P CIRCUIT	120V/1PH	PIT GFCI DUPLEX
DEDICATED 20A/1P CIRCUIT	120V/1PH	MACHINE ROOM GFCI DUPLEX
DEDICATED 208V-30A/2P CIRCUIT	208V/1PH	MACHINE ROOM HVAC

6 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

5 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

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Key Plan

Revision	Description	Date

OPN Project No.
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Sheet Issue Date
BID SET **03/14/2025**

Sheet Name
ELECTRICAL/MECHANICAL JESSIE PARKER NORTH

Sheet Number
ME101.6

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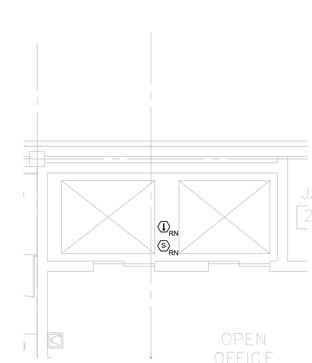
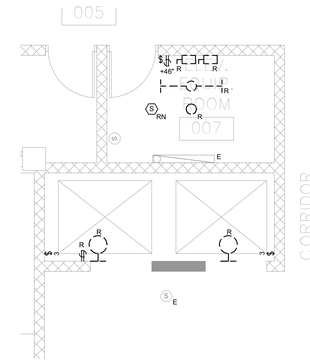
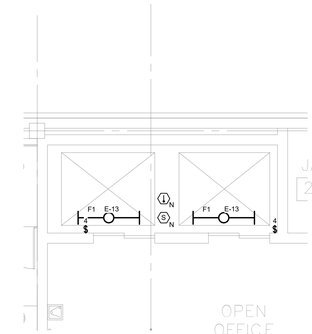


4 JESSIE LEVEL 2 SOUTH - DEMO
1/4" = 1'-0"



2 JESSIE LEVEL B SOUTH - DEMO
1/4" = 1'-0"



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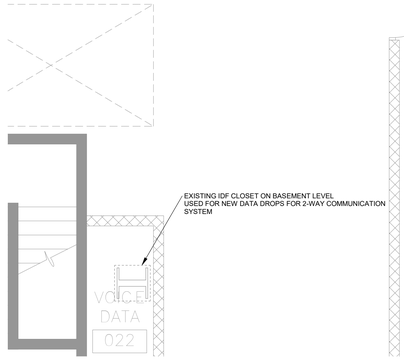
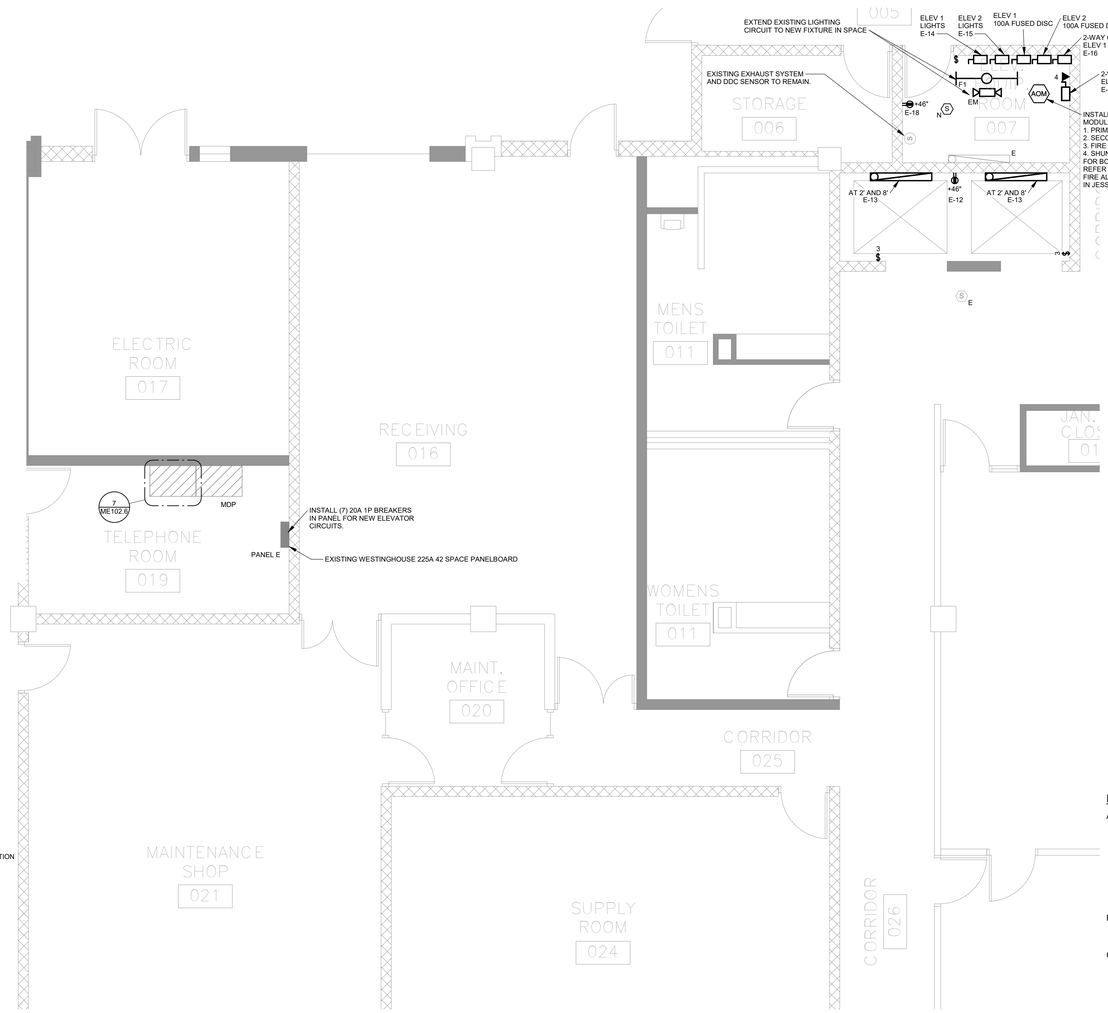
1/4" = 1'-0"





1 JESSIE LEVEL B SOUTH
1/4" = 1'-0"

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 CEILINGS TILES DAMAGED DURING DEMOLITION.
   d. KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECCESARY 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

POWER GENERAL NOTES

A. 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.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

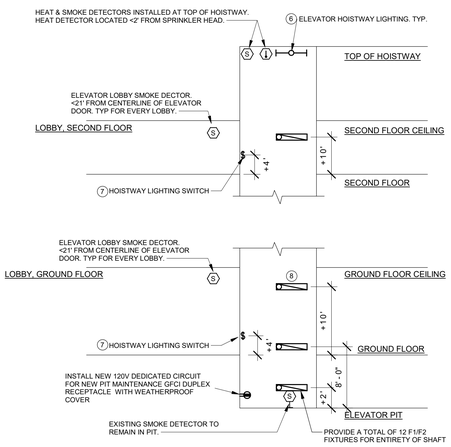
LIGHTING GENERAL NOTES

A. 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, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT

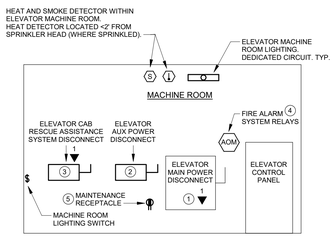
B. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

KEY NOTES:

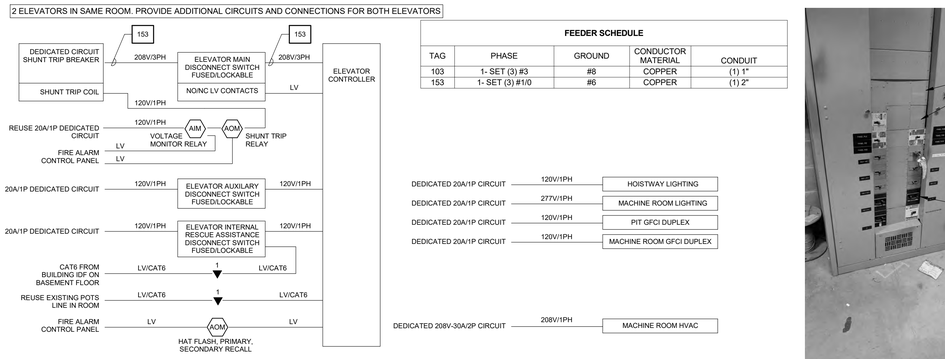
1. FUSED, LOCKABLE 200A MAIN DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR MAIN POWER. PROVIDED WITH NO/NC LOW VOLTAGE CONTACTS.
2. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILIARY LIGHTING/VENTILATION.
3. FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
4. FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.
5. DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO DISCONNECTS.
6. 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.
7. 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
8. PROVIDE A TOTAL OF 12 F1/F2 LIGHTING FIXTURES FOR SHAFTS.



TYPICAL ELEVATOR HOISTWAY ELEVATION



TYPICAL ELEVATOR MACHINE ROOM



TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

FEEDER SCHEDULE

TAG	PHASE	GROUND	CONDUCTOR MATERIAL	CONDUIT
103	1- SET (3) #3	#8	COPPER	(1) 1"
153	1- SET (3) #1/0	#6	COPPER	(1) 2"

DEDICATED 20A/1P CIRCUIT	120V/1PH	HOISTWAY LIGHTING
DEDICATED 20A/1P CIRCUIT	277V/1PH	MACHINE ROOM LIGHTING
DEDICATED 20A/1P CIRCUIT	120V/1PH	PIT GFCI DUPLEX
DEDICATED 20A/1P CIRCUIT	120V/1PH	MACHINE ROOM GFCI DUPLEX
DEDICATED 208V-30A/2P CIRCUIT	208V/1PH	MACHINE ROOM HVAC

5 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

6 ELEVATOR SYSTEM DETAIL
NOT TO SCALE

7 JESSIE PARKER SOUTH FEED
1/4" = 1'-0"

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Key Plan

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