

# Michigan State University

## Anthony Hall

### Replace Elevators EP1, EP2, EP3, and EP4

CAPITAL PROJECT NO. : CP23041

474 South Shaw Lane  
East Lansing, Michigan

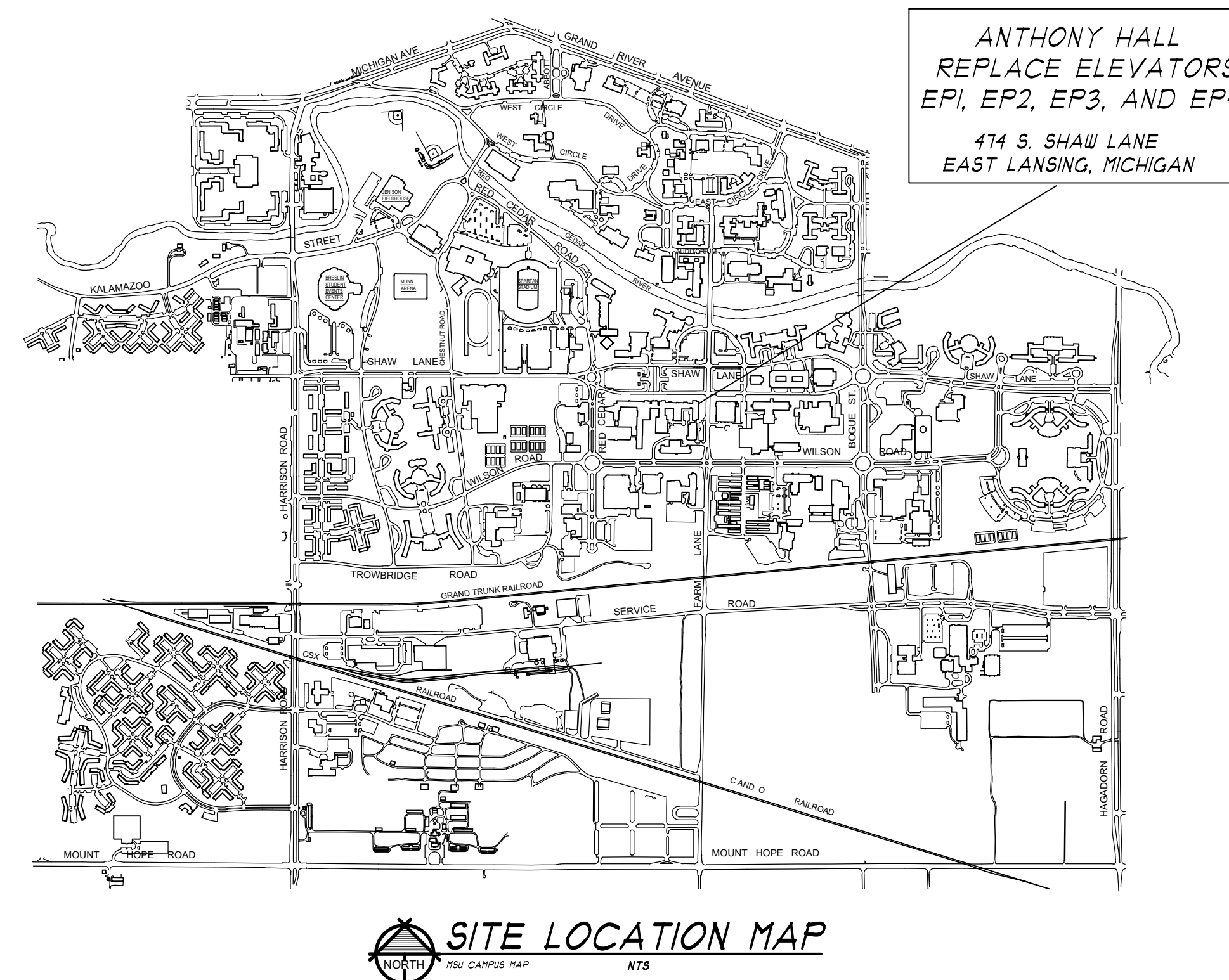
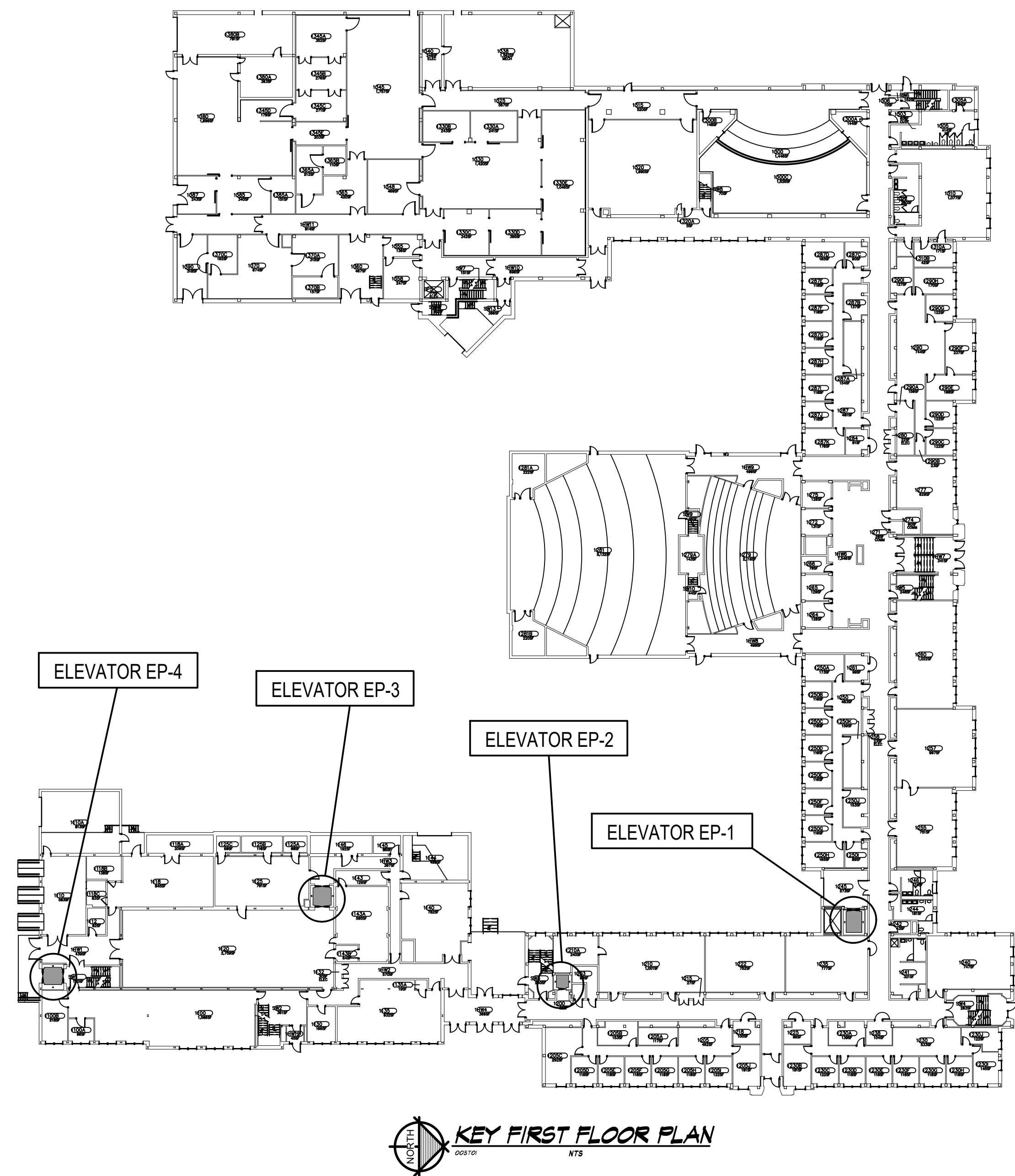
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ANTHONY HALL  
REPLACE ELEVATORS 1, 2, 3, and 4

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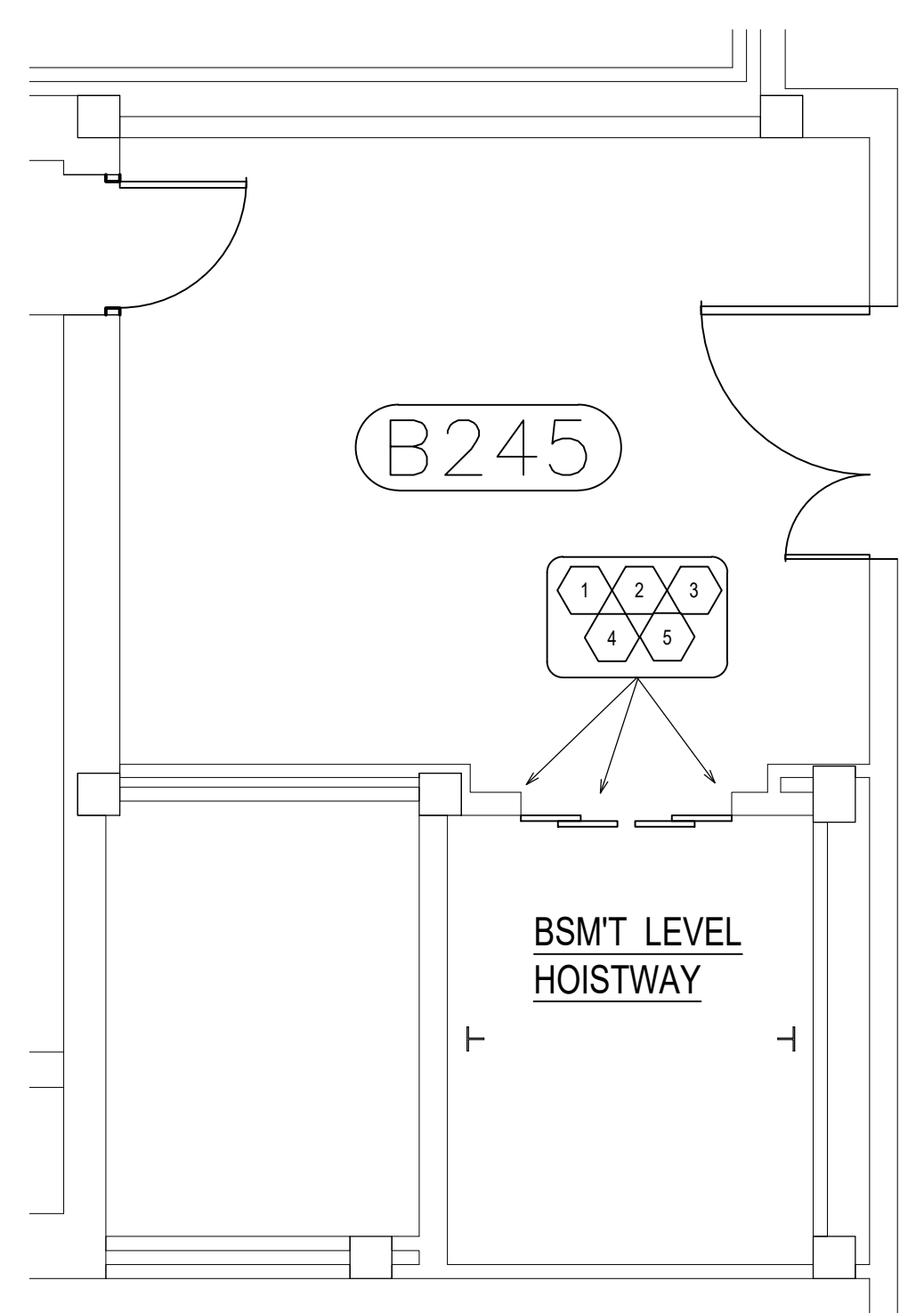
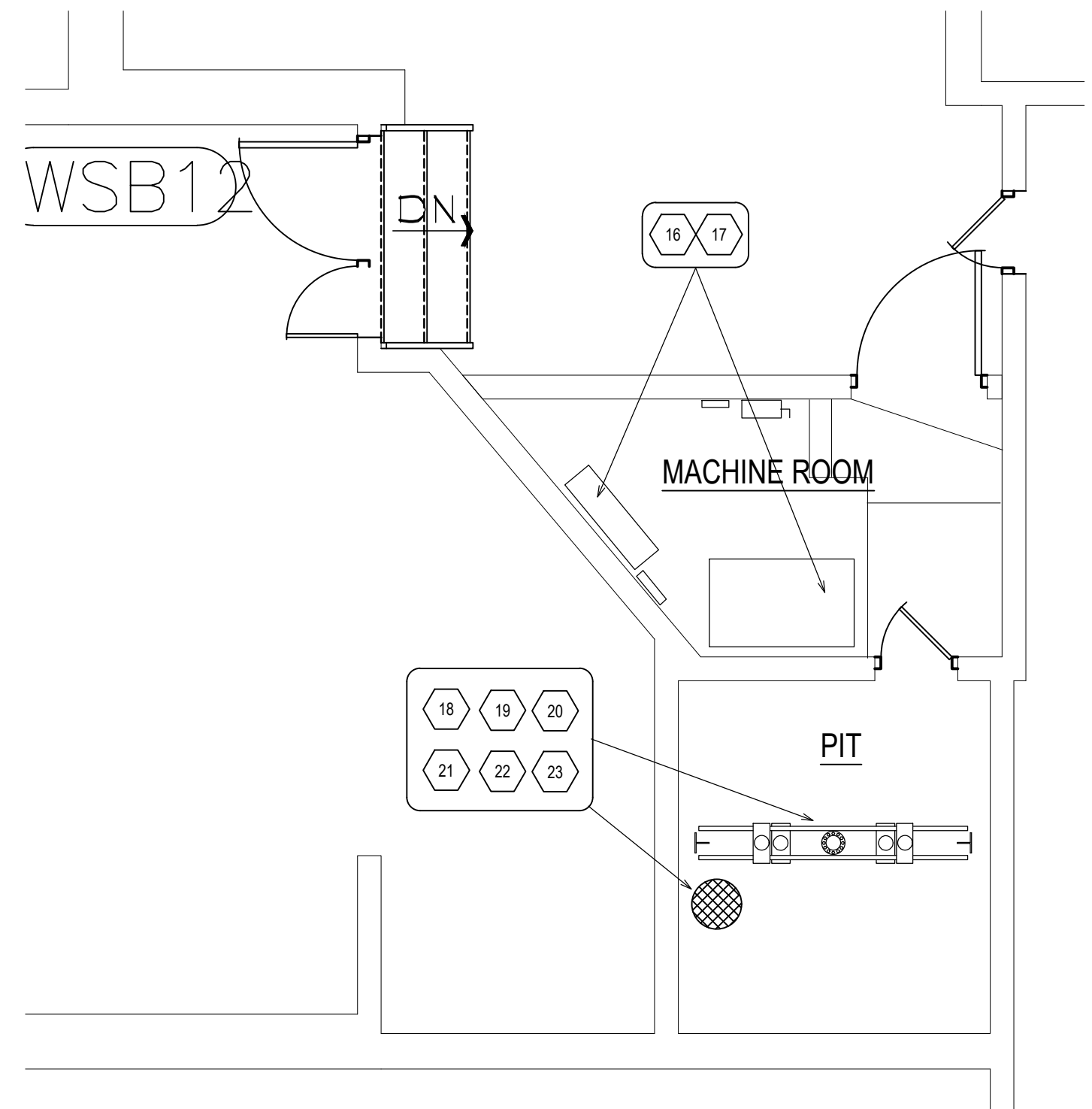


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SCALE	AS NOTED
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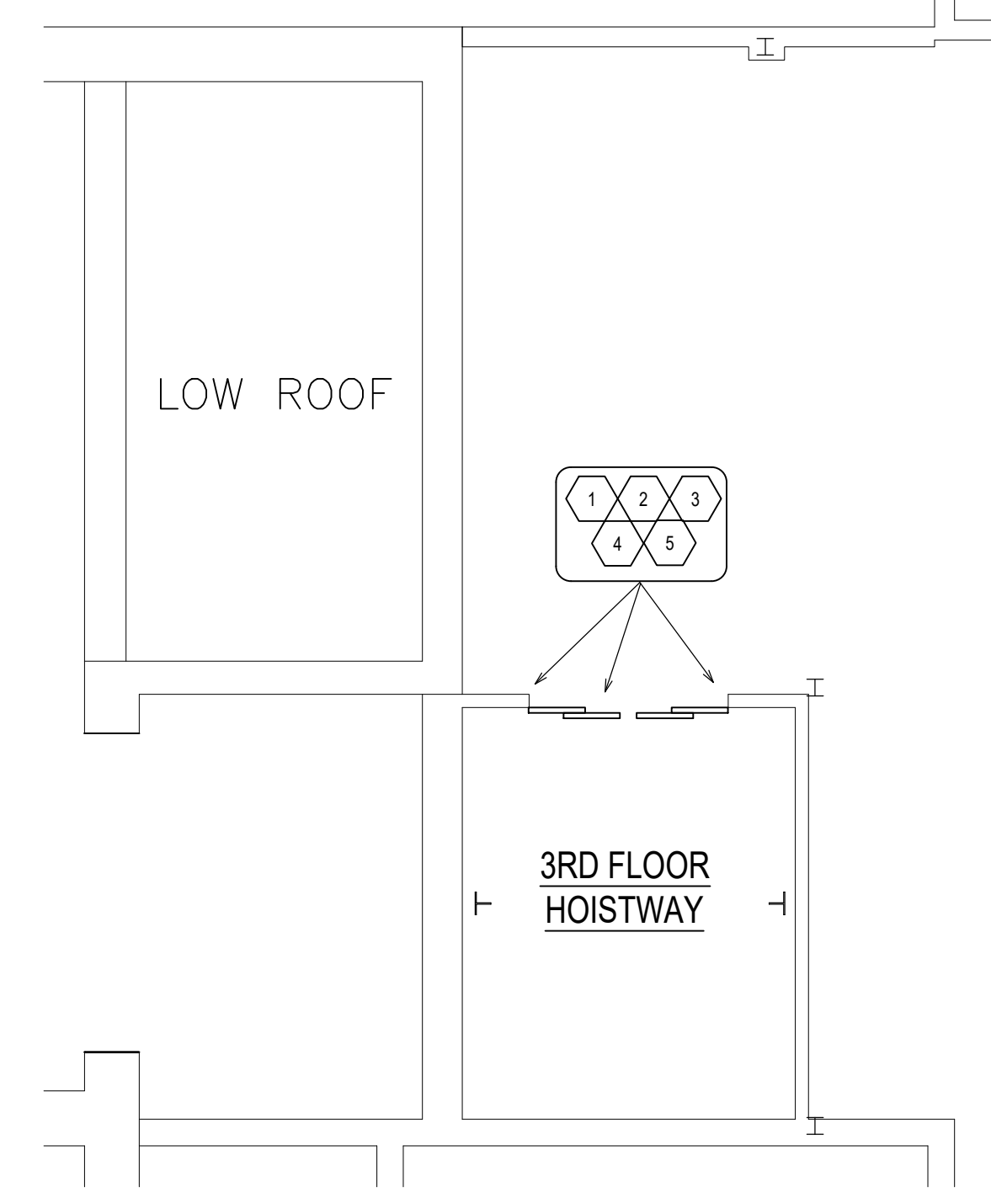
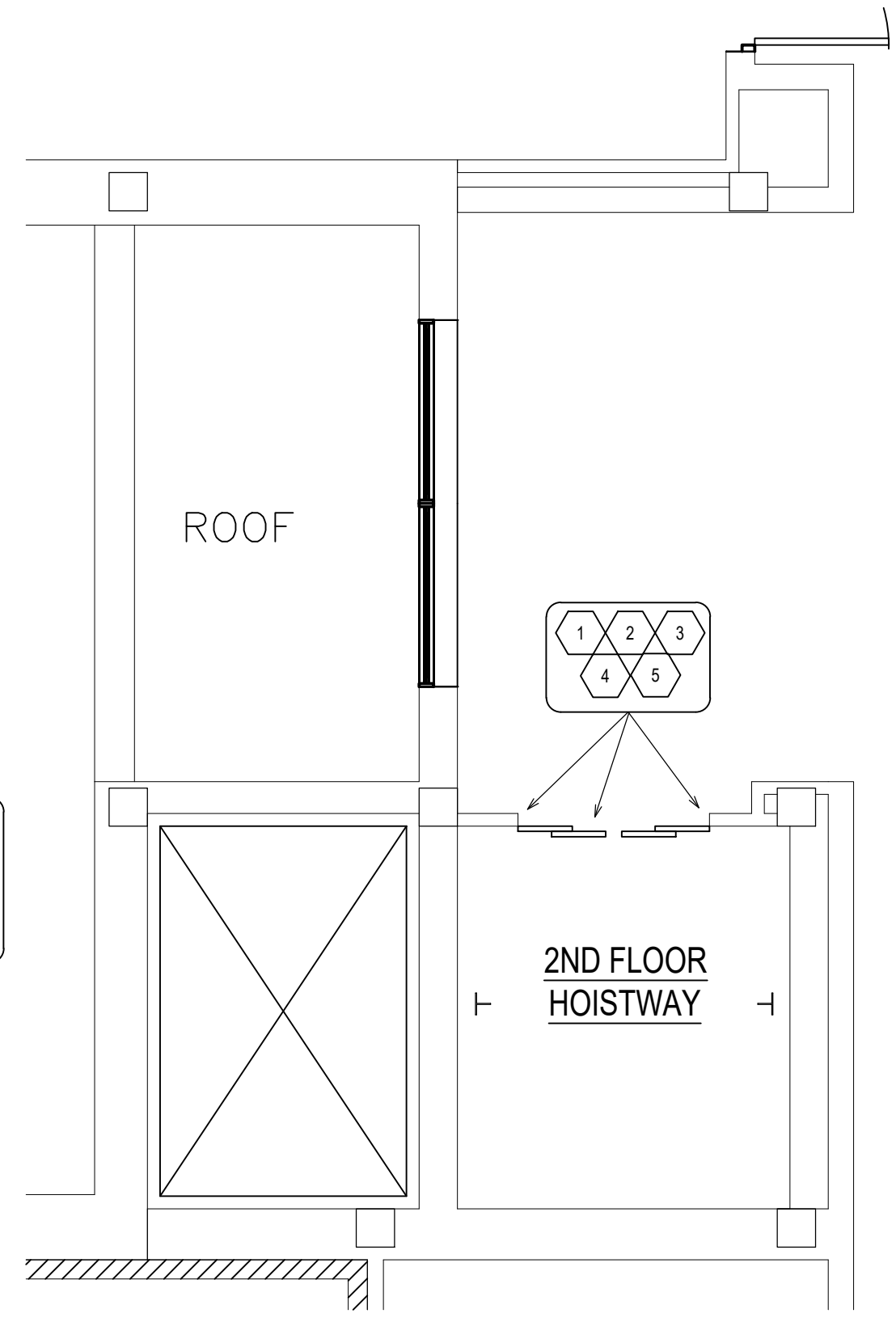
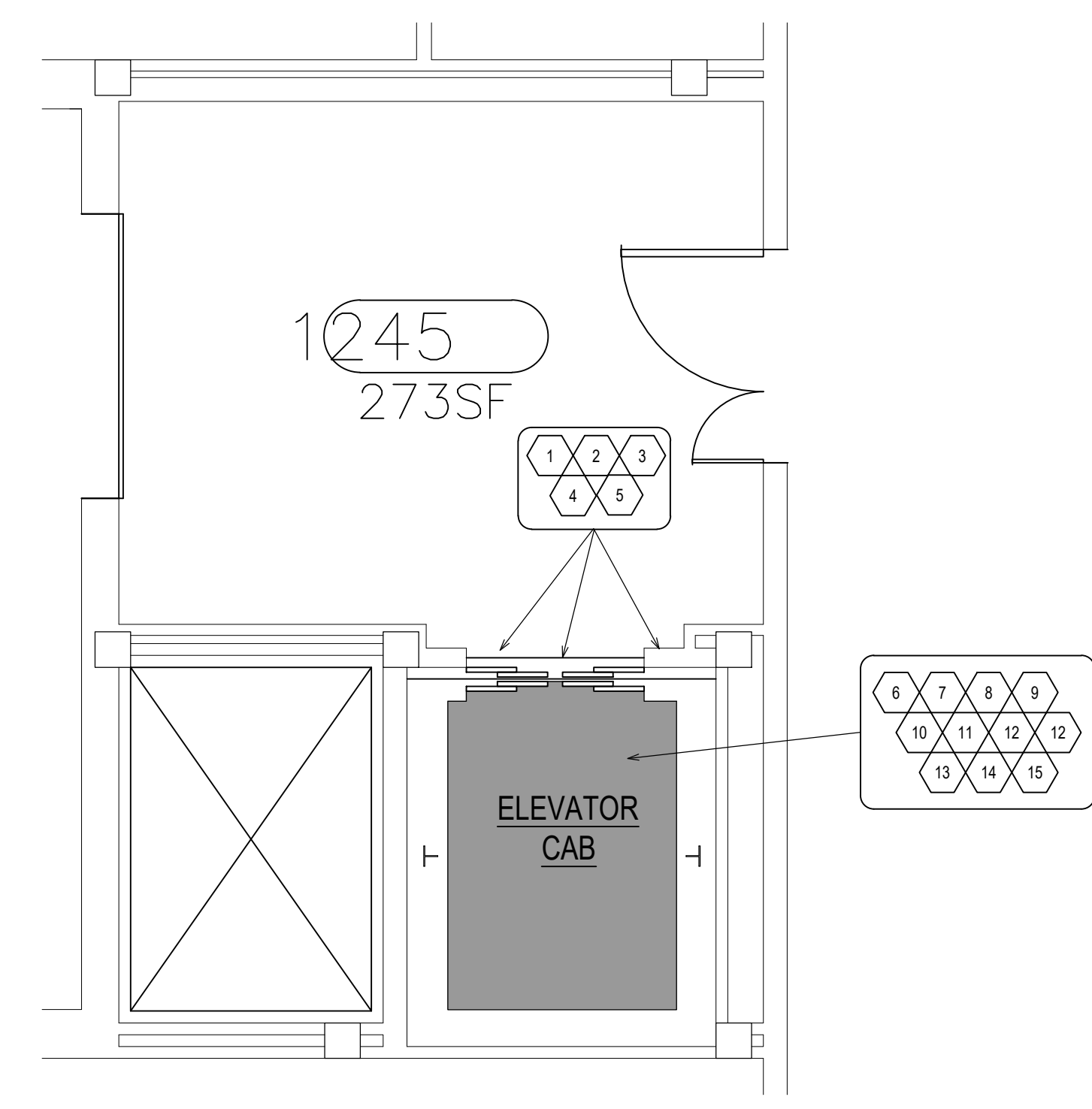
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T1



**DEMO ELEVATOR EPI**  
**SUB-BASEMENT LEVEL**  
 1/4"=1'-0"

**DEMO ELEVATOR EPI**  
**BASEMENT LEVEL**  
 1/4"=1'-0"



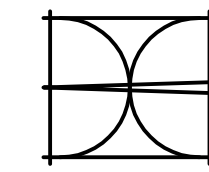
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 1/4"=1'-0"

**DEMO ELEVATOR EPI**  
**THIRD FLOOR LEVEL**  
 1/4"=1'-0"

<b>KEY DEMOLITION NOTES</b> <b>ELEVATORS EPI</b>	
<b>ELEVATOR LOBBIES AT ALL LEVELS</b>	
1	PREP WALL ABOVE HOISTWAY DOOR FOR NEW LANTERN. (NO HALL LANTERN CURRENTLY EXISTS)
2	REMOVE EXISTING CALL STATIONS AND PREP WALL AS REQUIRED FOR NEW CALL STATIONS
3	REMOVE EXISTING HOISTWAY DOORS, DOOR OPERATING HARDWARE, AND TRACK. EXISTING HOISTWAY THRESHOLD TO BE RETAINED.
4	REMOVE EXIST FLOOR DESIGNATION SIGNAGE ON HOISTWAY DOOR JAMBS
5	EXISTING HOISTWAY DOOR FRAMES TO REMAIN.
<b>ELEVATOR CABS:</b>	
6	REMOVE EXISTING CAB DOOR, DOOR OPERATING HARDWARE AND TRACK
7	EXISTING S.S. CAB CEILING TO REMAIN. REMOVE RECESSED 2X4 LIGHT FIXTURE. REMOVE EXHAUST FAN ABOVE CEILING. PREP S.S. CEILING FOR PAINTING AND INSTALLATION OF NEW 2X4 RECESSED LIGHT FIXTURE. TEMPORARILY REMOVE OTHER DEVICES ON CEILING FOR REFINISHING OF CEILING.
8	EXISTING ALUMINUM CHECKER PLATE FLOORING TO REMAIN. CLEAN AND BUFF EXISTING ALUM. FLOOR. CAB PLATFORM AND THRESHOLD TO REMAIN.
9	EXISTING STAINLESS STEEL WALL PANELS, RAISED WALL PANEL ACCENTS, AND STAINLESS STEEL RETURNS AT DOOR TO REMAIN. TEMPORARILY REMOVE WALL PANELS AS REQUIRED TO FACILITATE INSTALLATION OF NEW HANDRAILS AND AUXILIARY COP.
10	REMOVE CAB RAILINGS. (NOTE: NEW CAB RAILINGS ARE TO REPLACE EXISTING RAILINGS AND WILL REQUIRE STAINLESS STEEL MOUNTING PLATES ON WALL PANELS TO CONCEAL OBSOLETE MOUNTING HOLES.)
11	REMOVE MAIN CAR OPERATING PANEL AND AUXILIARY COP ALONG WITH ASSOCIATED CONTROL WIRING.
12	REMOVE TRAVELING CONTROL CABLES BETWEEN CONTROLLER AND CAB.
13	REMOVE CAB DOORS, AND CAB DOOR OPERATING HARDWARE, AND DOOR TRACK
14	REMOVE CAR TOP INSPECTION STATION
15	REMOVE ALL ROLLER GUIDES ROLLERS
<b>MACHINE ROOM:</b>	
16	REMOVE EXISTING CONTROLLER AND ASSOCIATED CONTROL AND POWER WIRING TO CAB, COP, AUXILIARY COP, AND PUMP.
17	REMOVE EXISTING HYDRAULIC PUMP - RETAIN PIPING WHERE POSSIBLE.
<b>ELEVATOR PIT AREA:</b>	
18	REMOVE EXISTING HYDRAULIC CYLINDER
19	EXISTING FABRICATED STEEL SUPPORT STRUCTURE FOR ELEVATED SUPPORT OF CYLINDER AND BUFFERS TO BE RETAINED. TEMPORARILY DISASSEMBLE AS REQUIRED FOR REPLACEMENT OF CYLINDER.
20	EXIST GUIDE RAILS AND SUPPORT STRUCTURE AT WALLS FOR GUIDE RAILS TO REMAIN
21	INSPECT EXISTING CASING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE ALTERNATE PRICE FOR REPLACEMENT OF CASING SEPARATE FROM BASE BID.
22	CLEAN DIRT AND DEBRIS FROM PIT FLOOR AND WALLS. TREAT CONCRETE FLOOR WITH "PULL IT OUT" OIL REMOVER PER MANUFACTURERS DIRECTIONS. PH: 1 (430) 462-5945
23	CLEAN OUT EXISTING DRY SUMP. REMOVE GRATE AND FABRICATE NEW STEEL GRATING TO ACCOMMODATE PIPING FOR NEW SUMP PUMP.

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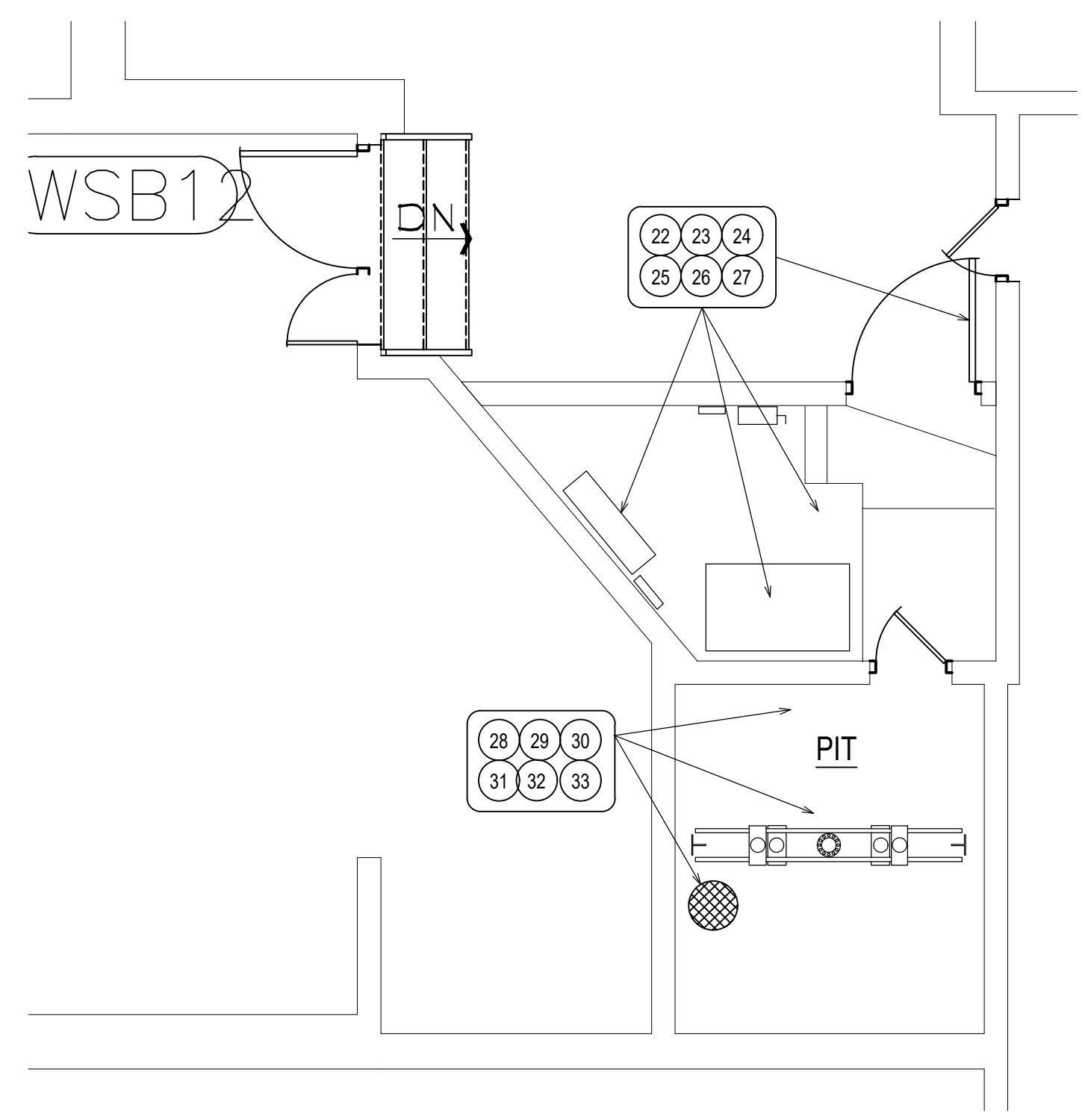


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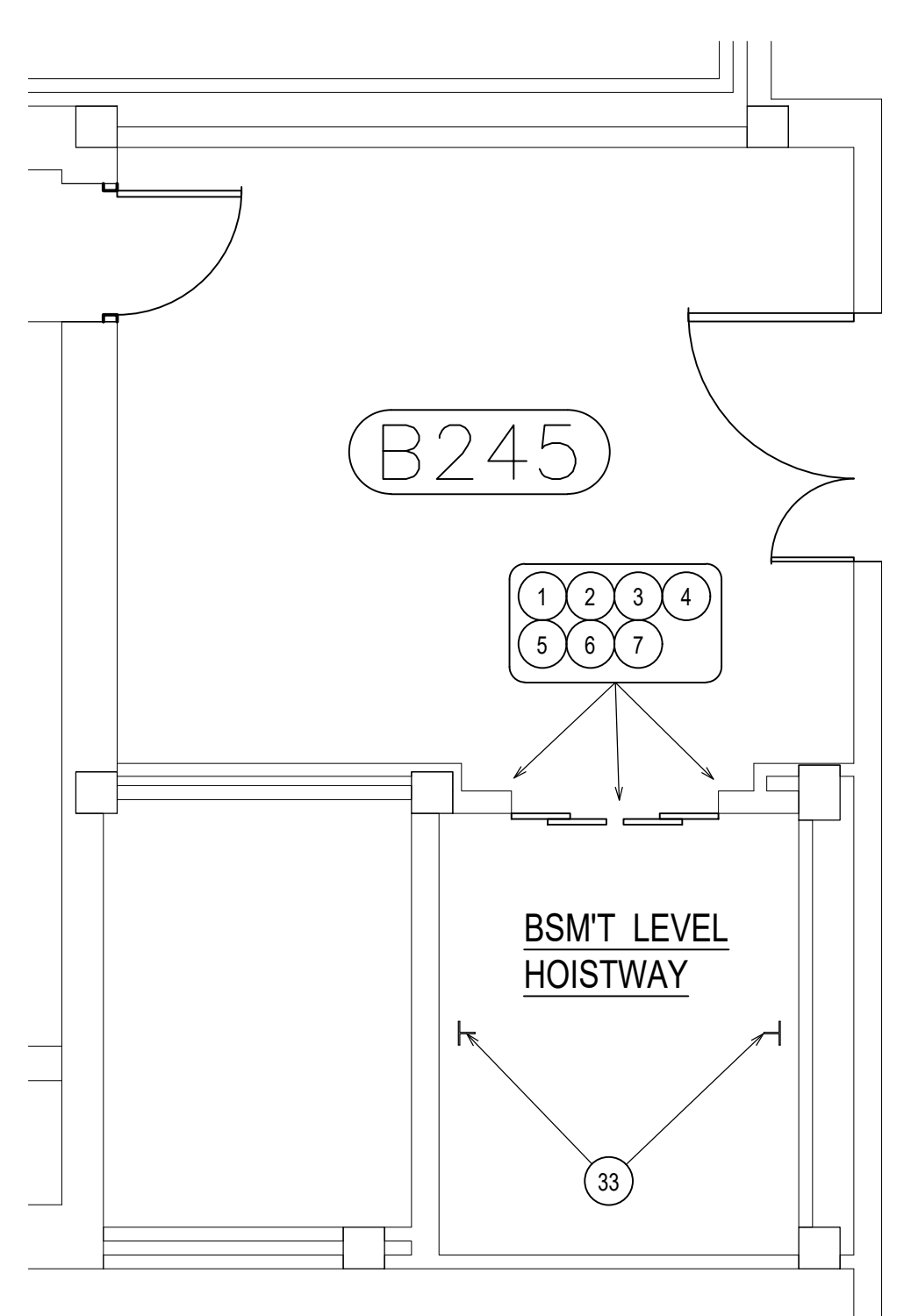
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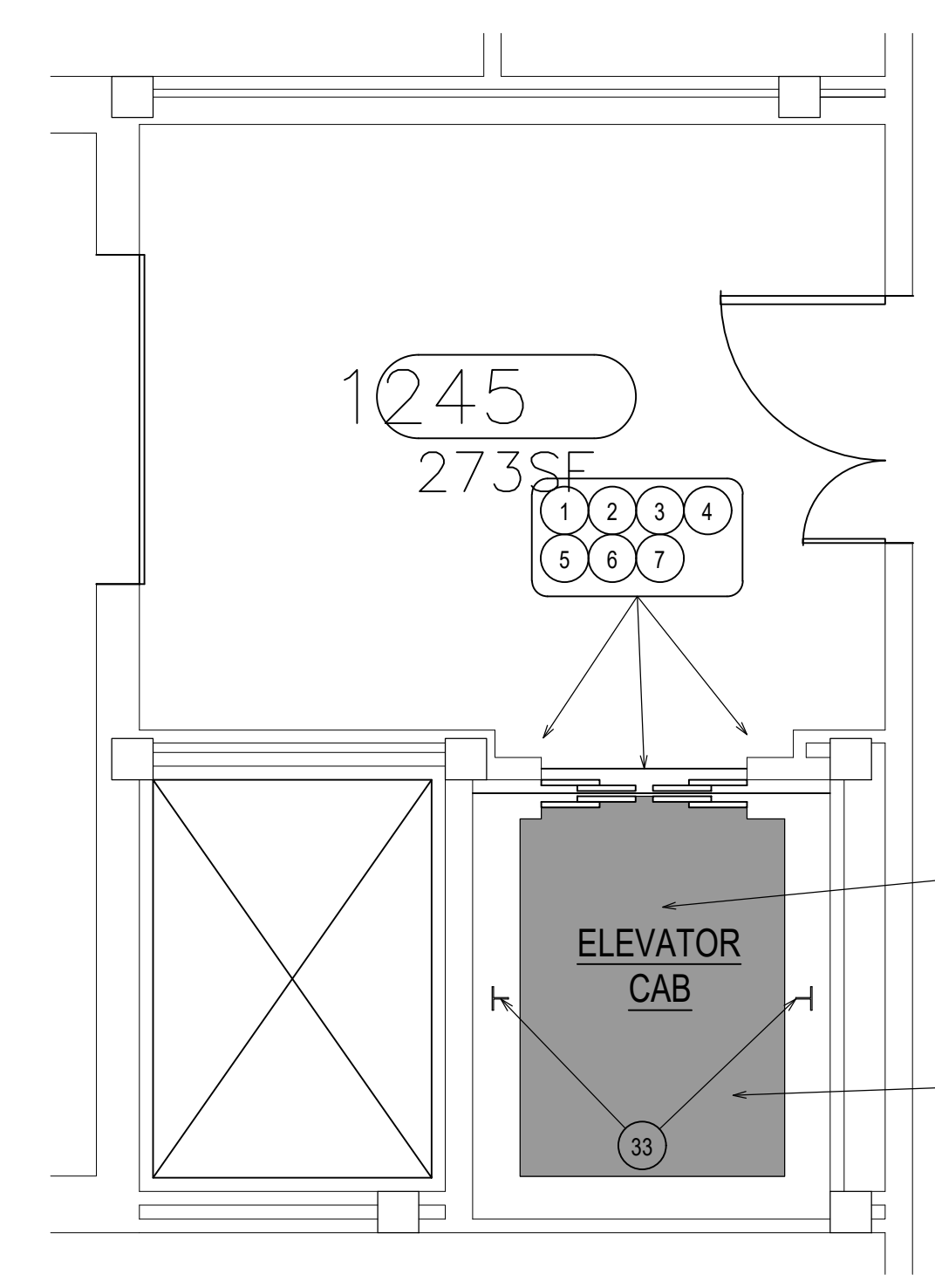
**NEW ELEVATOR EP1  
SUB-BASEMENT LEVEL**  
1/4"=1'-0"



**NEW ELEVATOR EP1  
BASEMENT LEVEL**  
1/4"=1'-0"

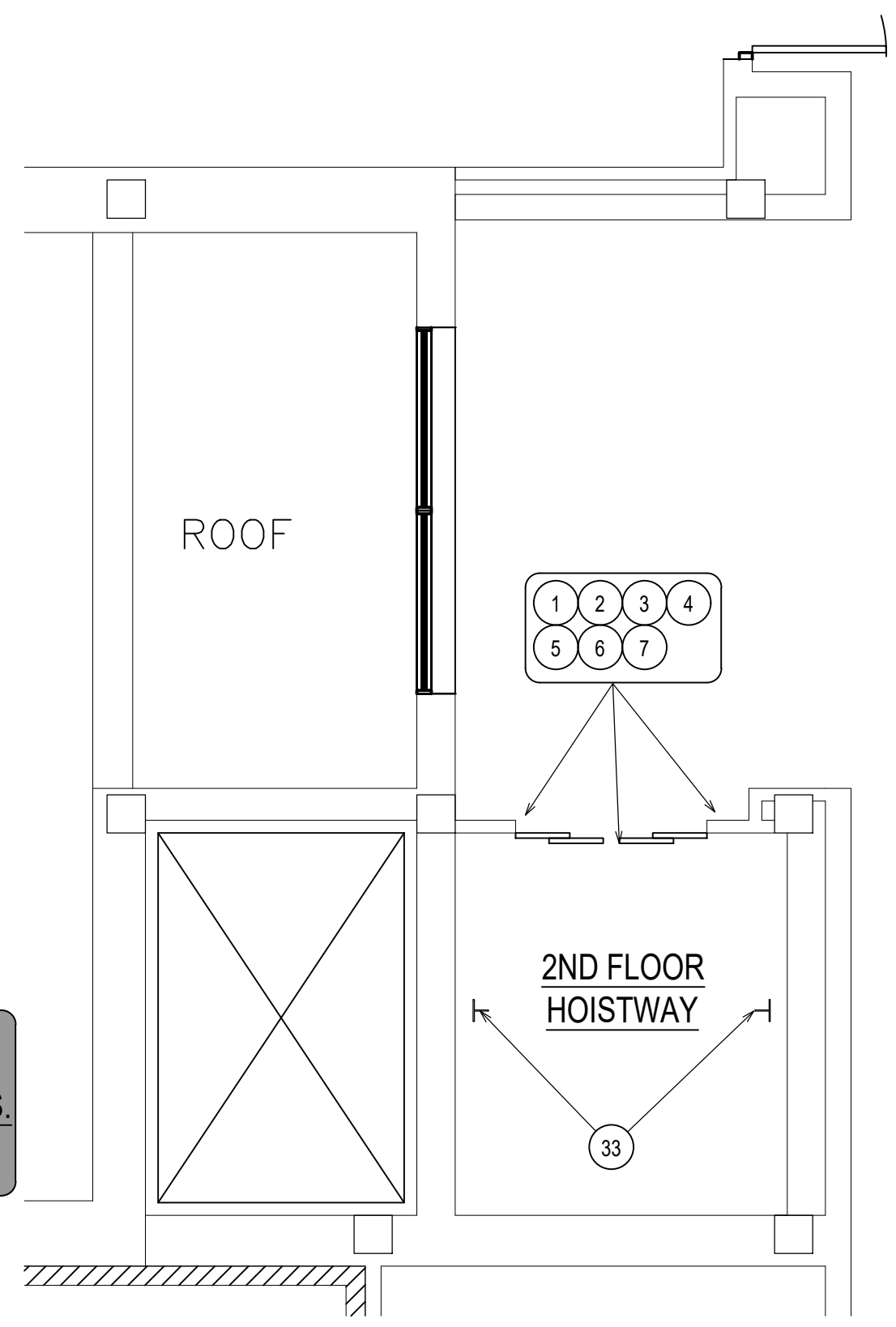
KEY RENOVATION WORK ELEVATOR EP1	
ELEVATOR LOBBIES AT ALL STOPS PROVIDE THE FOLLOWING:	
1	DIGITAL HALL LANTERNS WITH ILLUMINATED FLOOR INDICATORS AND DIRECTIONAL ARROWS WITH STAINLESS STEEL FINISH
2	CALL STATIONS AT EACH LANDING WITH ILLUMINATED CALL BUTTONS WITH KEYPAD ACCESS AT TOP AND BOTTOM LEVELS WITH STAINLESS STEEL FINISH
3	PROVIDE SUFFICIENT SIZE S.S. PLATES W/ #4 BRUSHED FINISH TO COVER PREVIOUS OPENINGS AT CALL STATIONS & LANTERNS AS REQUIRED.
4	PROTECT FLOORS FROM CONSTRUCTION OPERATIONS. REPAIR WALL AND FLOOR SURFACES DAMAGED OR SOILED RESULTING FROM CONSTRUCTION OPERATIONS.
5	CLEAN, WIRE BRUSH, AND POLISH EXISTING HOISTWAY THRESHOLDS.
6	STAINLESS STEEL HOISTWAY DOORS WITH 50L FINISH WITH COMPLETE DOOR OPERATING HARDWARE
7	TACTICAL/BRILLE FLOOR NUMBER SIGNS ON EACH JAMB AT ALL HOISTWAY OPENINGS
ELEVATOR CAB: PROVIDE THE FOLLOWING:	
8	ELEVATOR PLATFORM TO REMAIN. CAB WALLS TO REMAIN EXCEPT FOR TEMPORARY WALL PANEL REMOVAL AS REQUIRED TO INSTALL NEW HAND RAILS, ILLUMINATED FLOOR INDICATORS, AND NEW MAIN AND AUXILIARY CAR OPERATING PANELS.
9	CLEAN, BUFF, AND POLISH EXISTING STAINLESS STEEL WALL PANELS, STAINLESS STEEL BASE, AND STAINLESS STEEL ACCENT PANELS AT WALLS.
10	CLEAN, BUFF, AND POLISH EXISTING CHECKER PLATE ALUMINUM CAB FLOOR
11	PREP STAINLESS STEEL CEILING WITH EPOXY PAINT WITH AN EGG SHELL SHEEN. COLOR: BENJAMIN MOORE "ATRIUM WHITE" OC-MS". INSTALL NEW 2X4 RECESSED LED LIGHT FIXTURE WITH 3X4 CORE PARABOLIC DIFFUSER.
12	MAIN CAR OPERATING PANEL LOCATED WITH #4 STAINLESS STEEL FINISH LOCATED AT SAME LOCATION AS OBSOLETE COP. AUXILIARY CAR OPERATING PANEL WITH #4 STAINLESS STEEL FINISH LOCATED IN HANDRAIL OPPOSITE FROM THE MAIN COP.
13	8" WIDE S.S. CAB RAILINGS WITH #4 BRUSHED FINISH ON BOTH SIDE WALLS AND REAR CAB WALL AND FABRICATED TO ACCOMMODATE AUXILIARY CAR PANEL ON RAILING OPPOSITE THE WALL WHERE THE MAIN COP IS LOCATED. PROVIDE #4 STAINLESS STEEL PLATES BEHIND NEW HANDRAILS OF SUFFICIENT HEIGHT AND WIDTH TO COVER OBSOLETE MOUNTING HOLES OF PREVIOUS HANDRAILS.

ELEVATOR CAB: (CONTINUED)	
14	MAIN CAR OPERATING PANEL LOCATED AT THE SIDE WALL OF CAB AT THE SAME LOCATION AS THE OBSOLETE MAIN COP.
15	AUXILIARY CAR OPERATING PANEL LOCATED AT THE SIDE WALL OF CAB IN THE HANDRAIL OPPOSITE FROM THE MAIN COP.
16	STAINLESS STEEL FRONT WALL PANELS AND RETURNS WITH #4 BRUSHED FINISH. (BRUSHED GRAIN - VERTICAL)
17	STAINLESS STEEL CAB DOOR OF SAME DESIGN AS EXISTING OBSOLETE DOOR EXCEPT NEW DOORS TO HAVE 50L FINISH (VERTICAL PATTERN) COMPLETE WITH NEW DOOR OPERATING HARDWARE
18	TRAVELING CABLES AND CONNECTIONS CONNECTING CAR OPERATING PANELS AND ELEVATOR CONTROLLER.
19	NICKEL/ALUMINUM CAB DOOR THRESHOLDS
20	COMPLETE CAR TOP INSPECTION STATION
21	ROLLER GUIDES ALL LOCATIONS.
MACHINE ROOM: PROVIDE THE FOLLOWING:	
22	PROGRAMMABLE SOLID STATE HYDRAULIC ELEVATOR CONTROLLER AND PROGRAMMING FOR ELEVATOR OPERATION TO MEET REQUIREMENTS OF MICHIGAN ELEVATOR CODE AND MSU SPECIFICATION STANDARDS.
23	CABLES, CONDUITS, FITTINGS, ETC. FOR CONNECTING CONTROLLER TO PUMP AND CAR OPERATING PANELS.
24	HYDRAULIC ELEVATOR PUMP (CAPACITY AND ELECTRICAL CHARACTERISTICS TO BE SIMILAR TO EXISTING PUMP AND CAPABLE OF PROVIDING TRAVEL SPEED OF 125 FPM) PROVIDE NECESSARY ELECTRICAL AND PIPING MODIFICATIONS FOR CONNECTING PUMP AND CYLINDERS.
25	PREP AND PAINT MACHINE ROOM WALLS BENJAMIN MOORE PAINT COLOR "WINTER WHEAT #232"
26	PREP AND PAINT MACHINE ROOM FLOOR, STEPS, AND RISERS WITH BENJAMIN MOORE PAINT COLOR "DECK GRAY" PF-11
27	PREP AND PAINT MACHINE ROOM DOOR AND FRAME (BOTH SIDES) WITH BENJAMIN MOORE PAINT COLOR "WINTER WHEAT #232"
HOISTWAY AND PIT AREA: PROVIDE THE FOLLOWING:	
28	GALVANIZED STEEL GRATING TO FIT EXISTING SUMP. SUMP PUMP, PIPING, FITTINGS, FOR CONNECTION TO OIL SEPARATOR. SUMP PUMP INSTALLED BELOW GRATING - SEE MECHANICAL/ELECTRICAL DRAWINGS.
29	HYDRAULIC CYLINDER AT EACH HOISTWAY
30	INSPECT EXISTING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE BASE COST FOR CASING REPLACEMENT AS AN ALTERNATE COST IN BID.
31	CLEAN AND TOUCH UP PAINT EXISTING STRUCTURAL STEEL SUPPORT STRUCTURE FOR HYDRAULIC JACK AND SPRING BUMPERS. MATCH EXISTING PAINT COLOR
32	CLEAN, PREP, AND PAINT ELEVATOR PIT FLOOR SHERWIN WILLIAMS COLOR "GRAY MATTERS" - #50204. PREP PIT WALLS UP TO THE FIRST FLOOR LINE AND TOUCH UP PAINT WITH COLOR AND SHEEN TO MATCH EXISTING PAINTED PIT WALLS. PAINT WALLS UP TO THE FIRST FLOOR LINE.
33	CHECK GUIDE RAILS FOR STRAIGHT AND UNIFORMLY VERTICAL ALIGNMENT. ADJUST AS NECESSARY TO ALIGN RAILS.

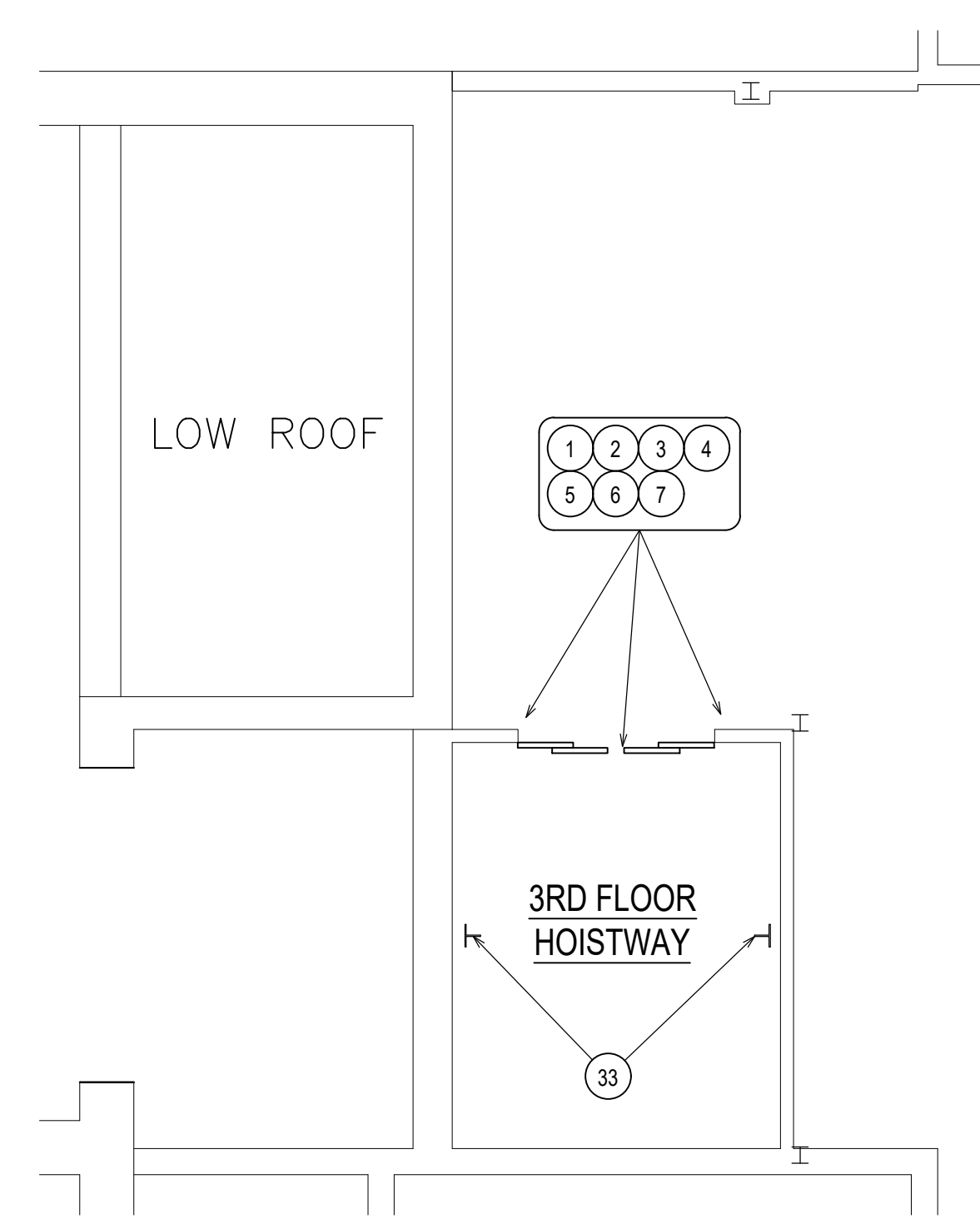


**NEW ELEVATOR EP1  
FIRST FLOOR LEVEL**  
1/4"=1'-0"

ELEVATOR -EP1  
CAPACITY - 4,500 LBS.  
SPEED - 125 FPM



**NEW ELEVATOR EP1  
SECOND FLOOR LEVEL**  
1/4"=1'-0"



**NEW ELEVATOR EP1  
THIRD FLOOR LEVEL**  
1/4"=1'-0"

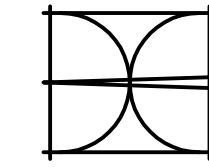
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A1.2



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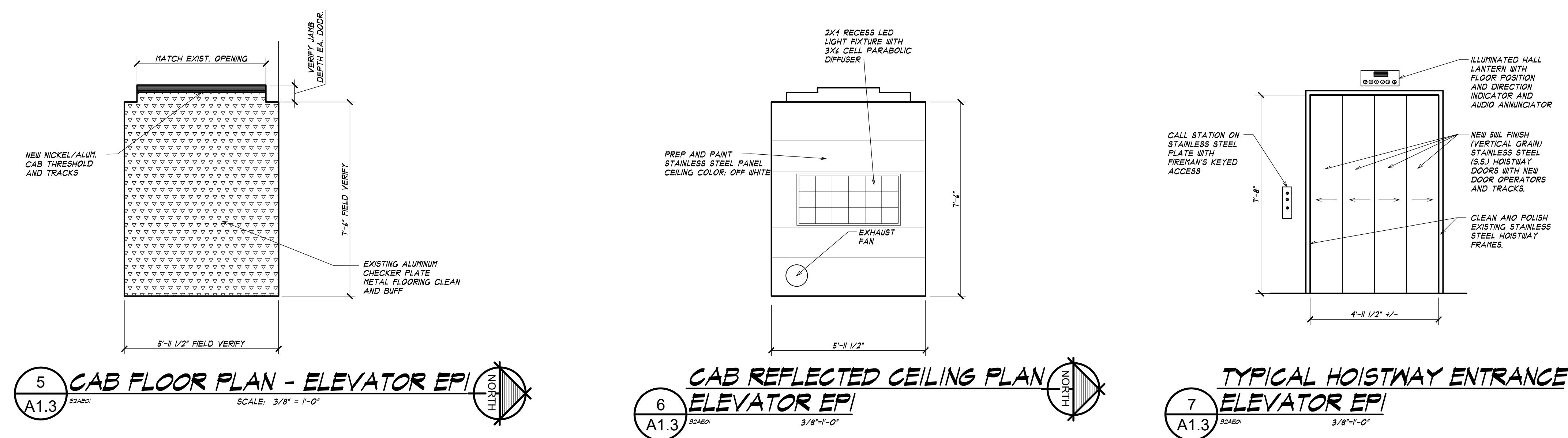
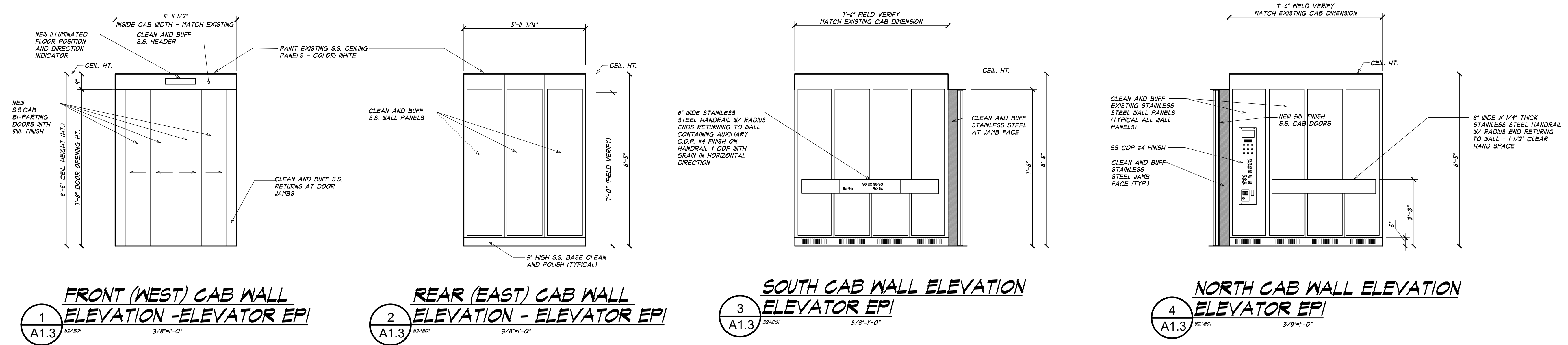
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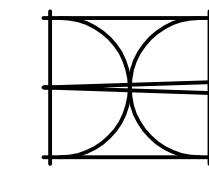
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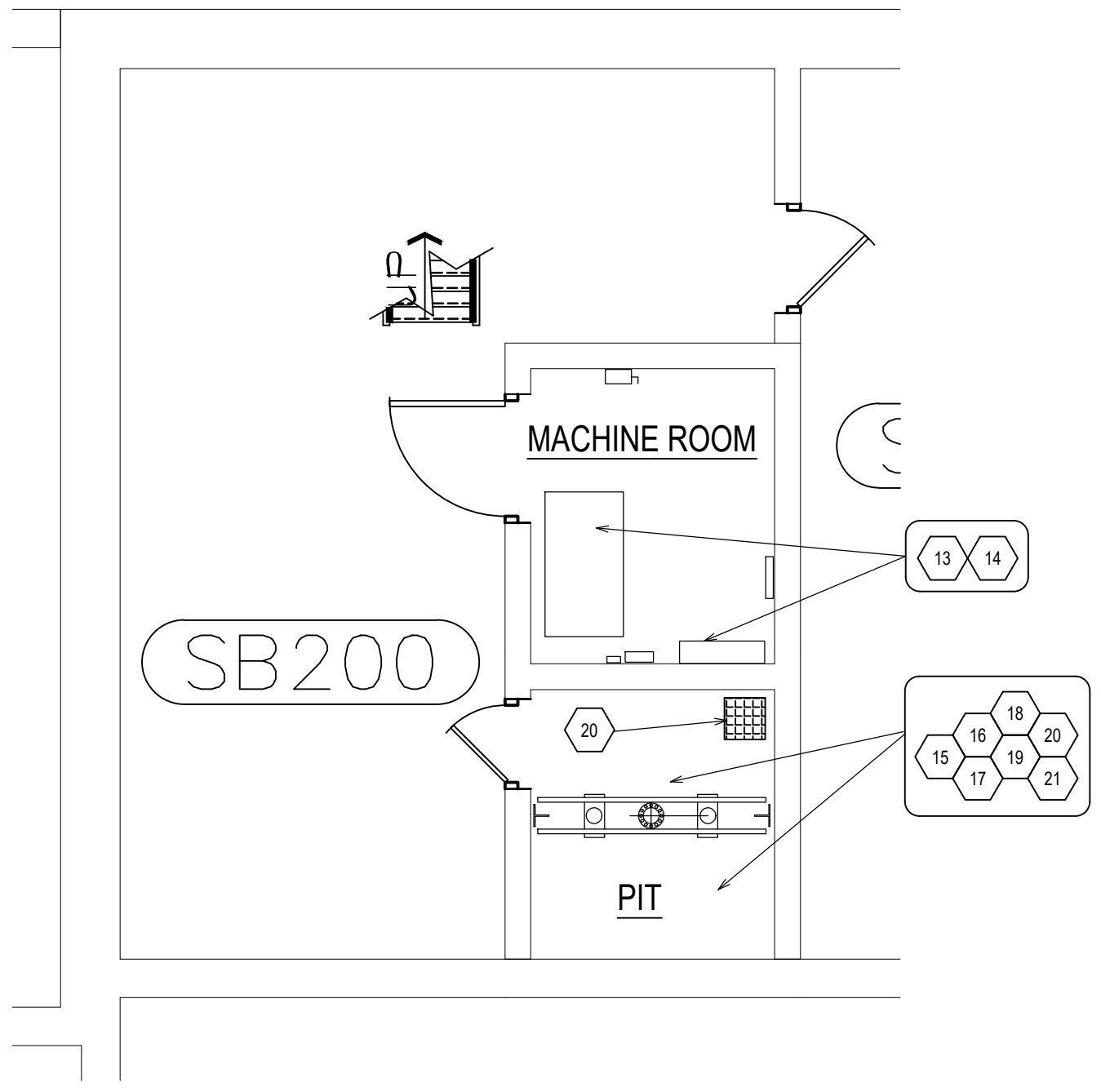


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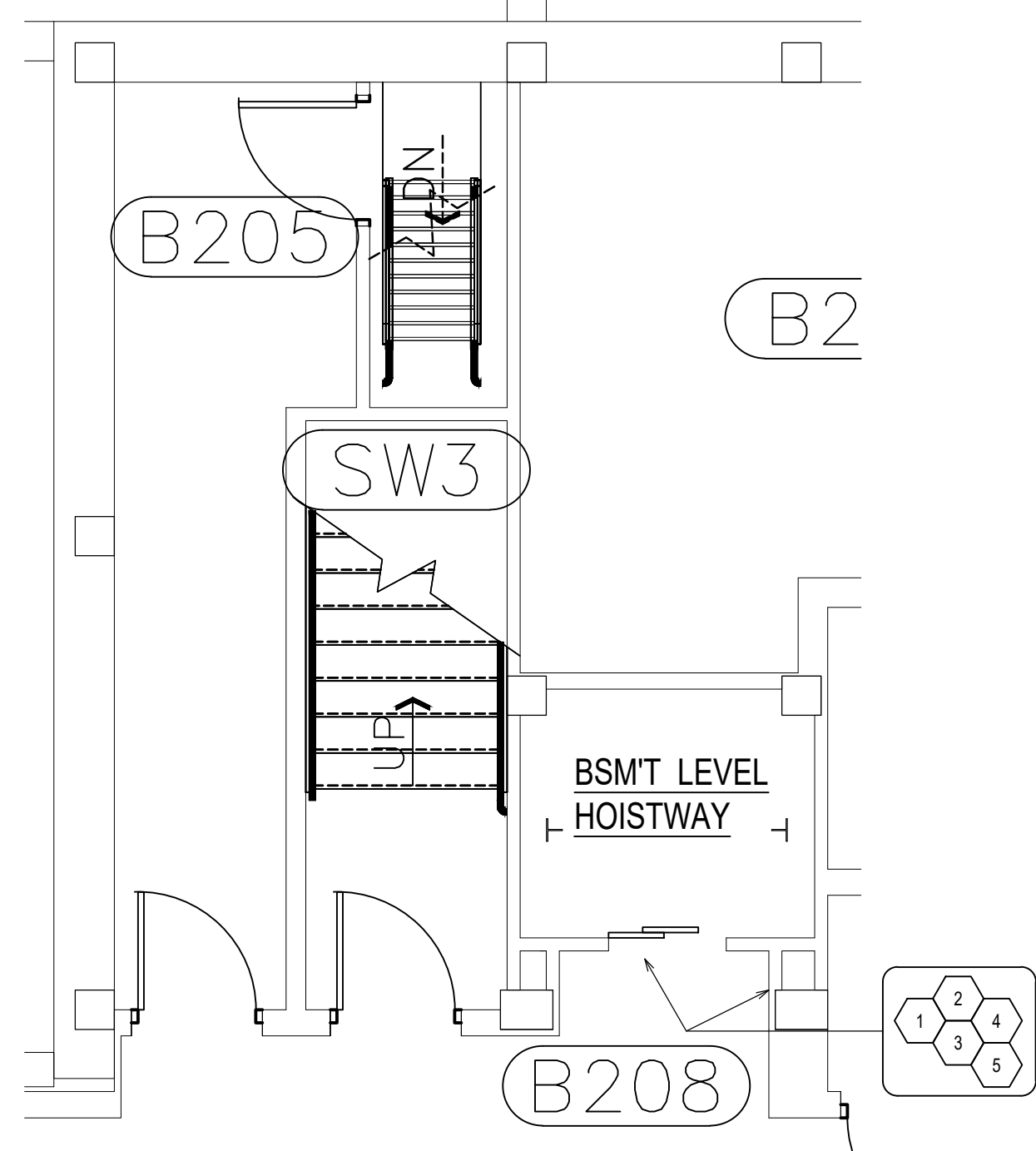
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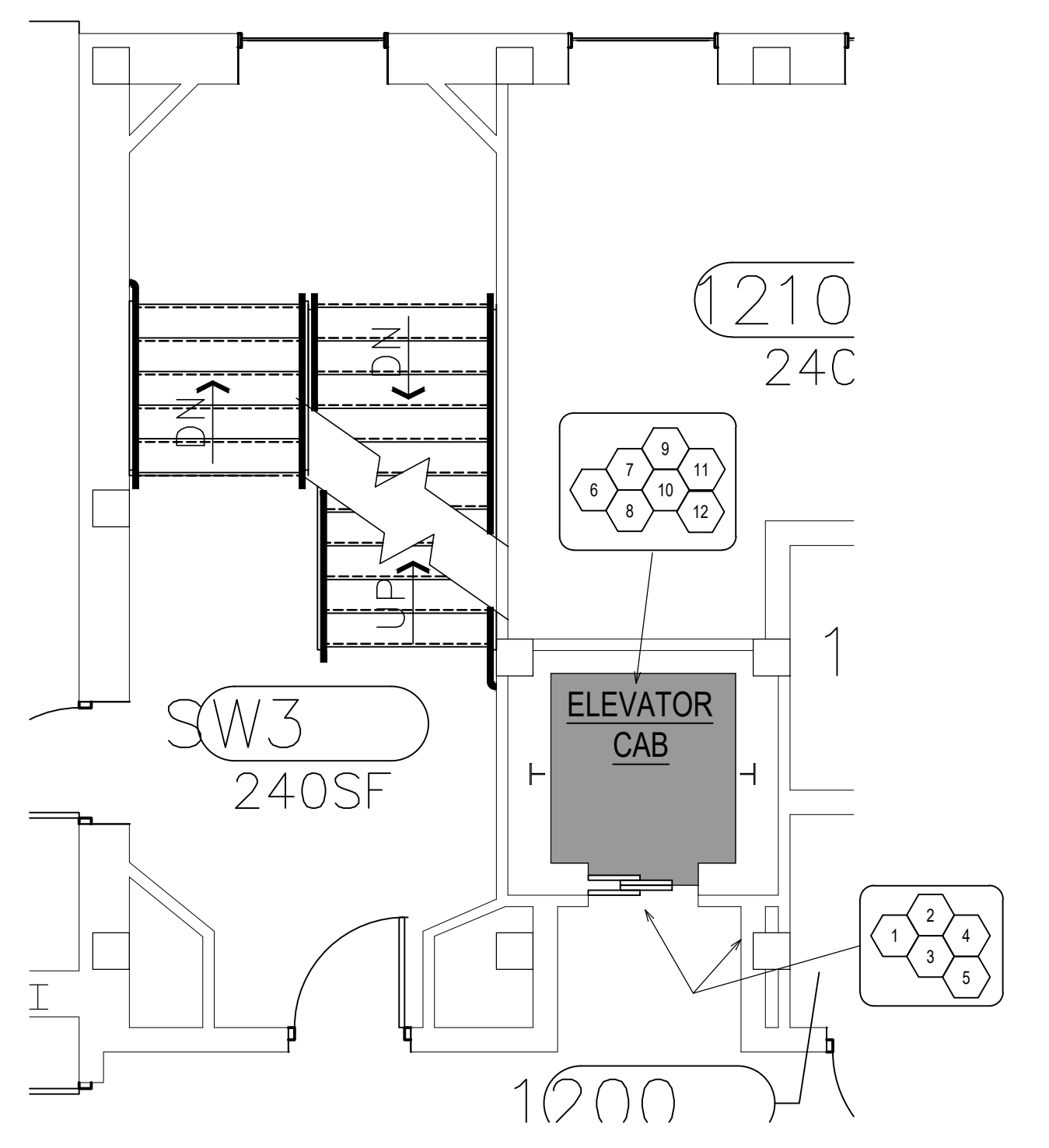
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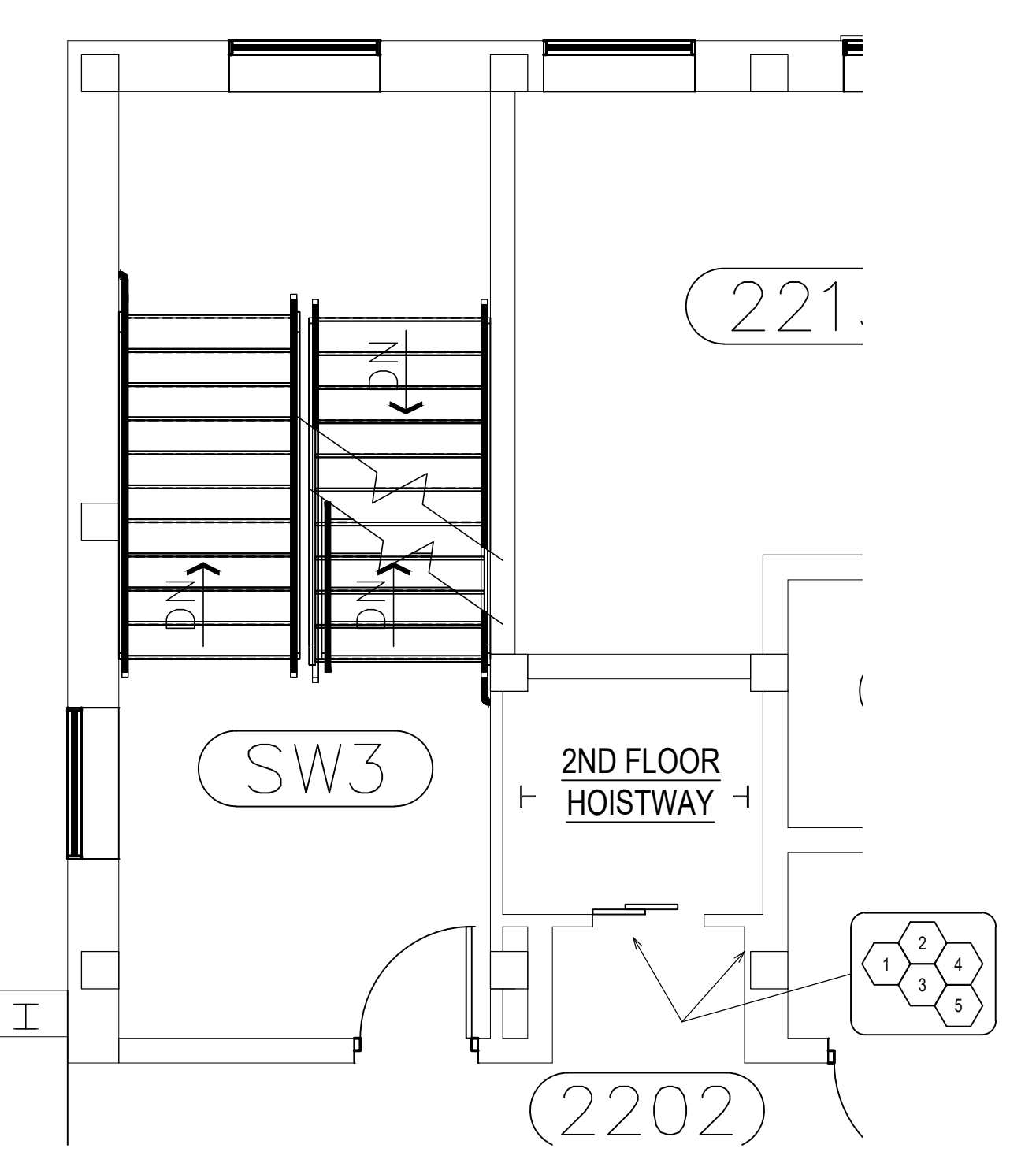
**DEMO ELEVATOR EP2**  
**SUB-BASEMENT LEVEL**  
1/4"=1'-0"



**DEMO ELEVATOR EP2**  
**BASEMENT LEVEL**  
1/4"=1'-0"



**DEMO ELEVATOR EP2**  
**FIRST FLOOR LEVEL**  
1/4"=1'-0"



**DEMO ELEVATOR EP2**  
**SECOND FLOOR LEVEL**  
1/4"=1'-0"

**KEY DEMOLITION NOTES**  
**ELEVATORS EP3**

ELEVATOR LOBBIES AT ALL LEVELS	
1	PREP WALL ADJACENT TO HOISTWAY DOORS (7'-4" A.F.F.) FOR NEW LANTERN. (NO HALL LANTERN CURRENTLY EXISTS)
2	REMOVE EXISTING CALL STATIONS AND PREP WALL AS REQUIRED FOR NEW CALL STATIONS (WHERE DUPLICATE CALL STATIONS EXIST SIDE BY SIDE ONLY ONE CALL STATION REQ. ON NEW PLAN)
3	REMOVE EXISTING HOISTWAY DOORS DOORS FOR REFINISHING AND REINSTALLATION. REMOVE HOISTWAY DOOR OPERATING HARDWARE, AND TRACK. EXISTING HOISTWAY THRESHOLD TO BE RETAINED.
4	REMOVE EXIST FLOOR DESIGNATION SIGNAGE ON HOISTWAY DOOR JAMBS
5	EXISTING HOISTWAY DOOR FRAMES TO REMAIN.
ELEVATOR CABS:	
6	REMOVE EXISTING CAB DOORS, DOOR OPERATING HARDWARE AND TRACK
7	REMOVE EXISTING CAB CEILING, LIGHTING, AND EXHAUST FAN
8	REMOVE CAB FLOOR MATERIAL. CAB PLATFORM AND FRAMING TO REMAIN. REMOVE ROLLER GUIDES.
9	REMOVE STAINLESS STEEL CAB CAB WALLS AND DECORATIVE LAMINATED PLASTIC WALL PANELS
10	REMOVE CAB RAILINGS
11	REMOVE MAIN CAR OPERATING PANEL AND AUXILIARY COP ALONG WITH ASSOCIATED CONTROL WIRING.
12	REMOVE TRAVELING CONTROL CABLES BETWEEN CONTROLLER AND CAB.
MACHINE ROOM:	
13	REMOVE EXISTING CONTROLLER AND ASSOCIATED CONTROL AND POWER WIRING TO CAB, COP, AUXILIARY COP, AND PUMP.
14	REMOVE EXISTING HYDRAULIC PUMP - RETAIN PIPING WERE POSSIBLE.
ELEVATOR PIT AREA:	
15	REMOVE EXISTING HYDRAULIC CYLINDER
16	EXISTING FABRICATED STEEL SUPPORT STRUCTURE FOR ELEVATED SUPPORT OF CYLINDER AND BUMPERS TO BE RETAINED. TEMPORARILY DISASSEMBLE AS REQUIRED FOR REPLACEMENT OF CYLINDER.
17	EXIST GUIDE RAILS AND SUPPORT STRUCTURE AT WALLS FOR GUIDE RAILS TO REMAIN - CHECK RAILS FOR PLUM AND ALIGNMENT. CORRECT AS REQUIRED
18	INSPECT EXISTING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE ALTERNATE PRICE FOR REPLACEMENT OF CASING SEPARATE FROM BASE BID.
19	CLEAN DIRT AND DEBRIS FROM PIT FLOOR AND WALLS. TREAT CONCRETE FLOOR WITH "PULL IT OUT" OIL REMOVER PER MANUFACTURERS DIRECTIONS. PH: 1 (430) 482-5945
20	CUT OUT PORTION OF EXISTING PIT FLOOR FOR INSTALLATION OF NEW FORMED CONCRETE SUMP
21	CLEAN DIRT AND DEBRIS FROM PIT FLOOR AND WALLS. TREAT CONCRETE FLOOR WITH "PULL IT OUT" OIL REMOVER PER MANUFACTURERS DIRECTIONS. PH: 1 (430) 482-5945

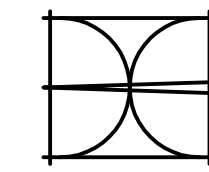
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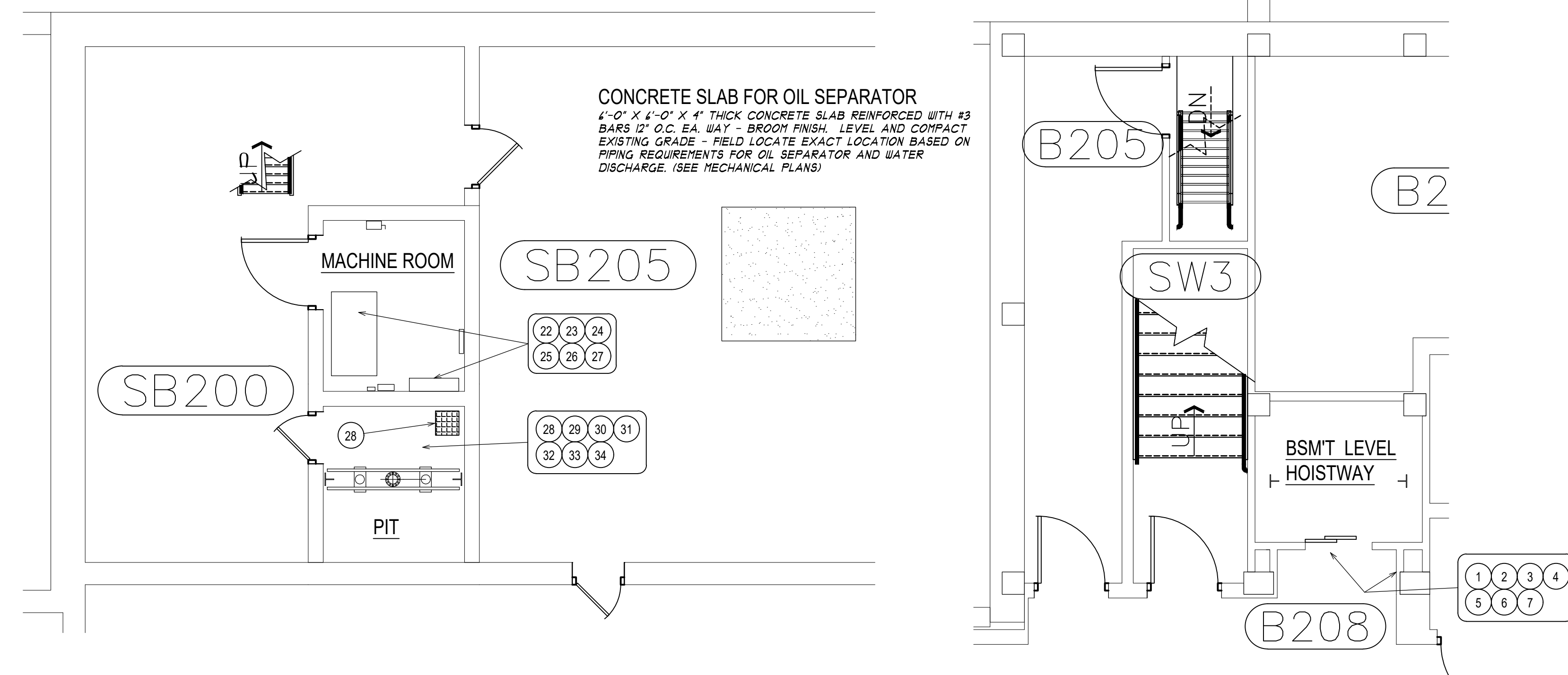
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A2.2

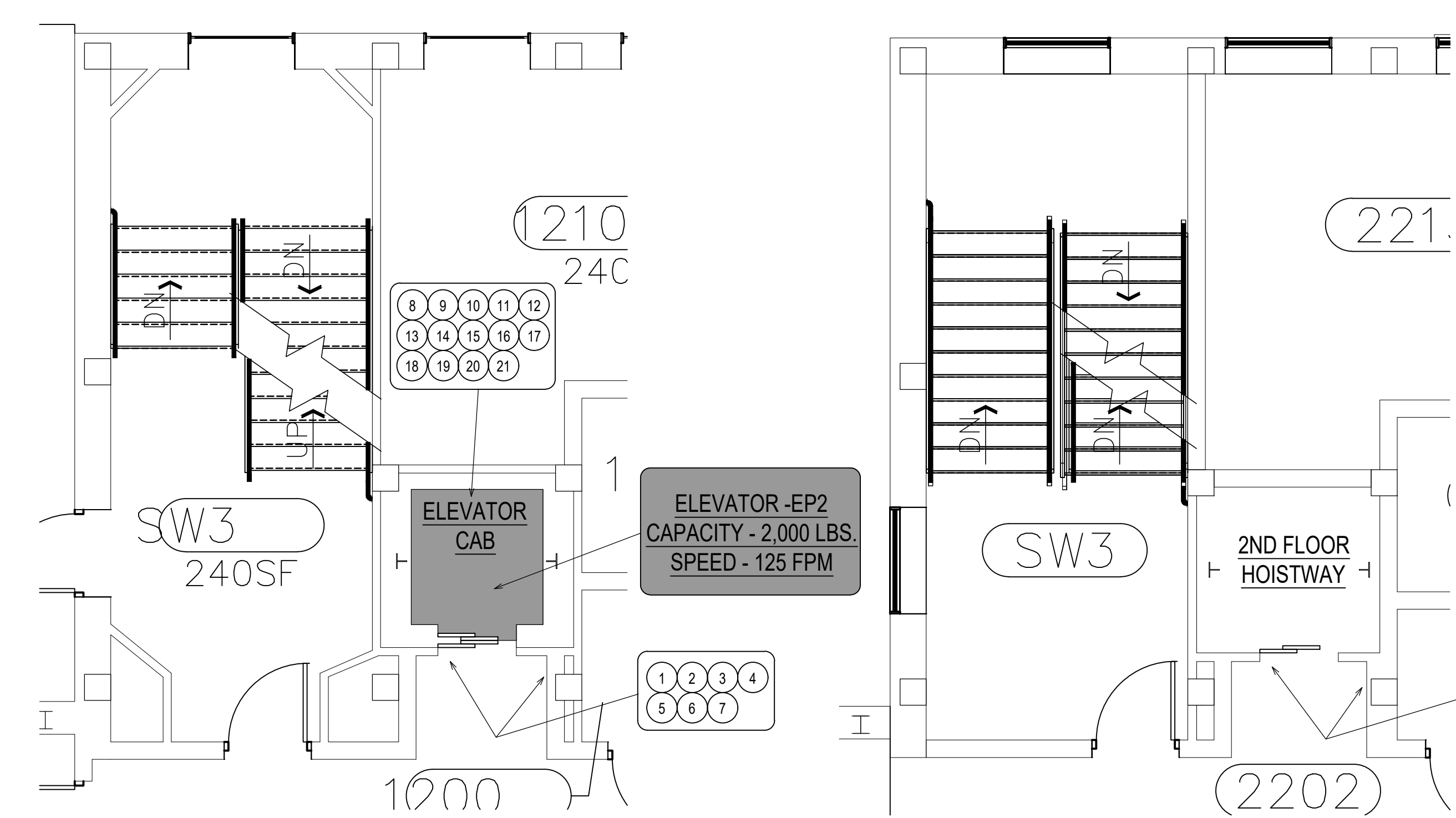
**KEY RENOVATION WORK  
ELEVATOR EP3** Comm. No. 2208

ELEVATOR LOBBIES AT ALL STOPS PROVIDE THE FOLLOWING:	
1	DIGITAL HALL LANTERNS WITH ILLUMINATED FLOOR INDICATORS AND DIRECTIONAL ARROWS AND AUDIO ANNUNCIATORS WITH STAINLESS STEEL FINISH. LOCATE ON WALL NEXT TO DOOR 1'-4" A.F.F.
2	CALL STATIONS AT EACH LANDING WITH ILLUMINATED CALL BUTTONS WITH KEYS ACCESS AT TOP AND BOTTOM LEVELS WITH STAINLESS STEEL FINISH
3	PROVIDE SUFFICIENT SIZE S.S. PLATES W/ #4 BRUSHED FINISH TO COVER PREVIOUS OPENINGS AT CALL STATIONS & LANTERNS AS REQUIRED.
4	PROTECT FLOORS FROM CONSTRUCTION OPERATIONS. REPAIR WALL AND FLOOR SURFACES DAMAGED OR SOILED RESULTING FROM CONSTRUCTION OPERATIONS.
5	CLEAN, WIRE BRUSH, AND POLISH EXISTING HOISTWAY THRESHOLDS.
6	STAINLESS STEEL HOISTWAY DOORS WITH #4 BRUSHED FINISH WITH COMPLETE DOOR OPERATING HARDWARE
7	TACTICAL/BRAILLE FLOOR NUMBER SIGNS ON EACH JAMB AT ALL HOISTWAY OPENINGS
ELEVATOR CAB: PROVIDE THE FOLLOWING:	
8	COMPLETE ELEVATOR PLATFORM FRAMING WITH NEW CAB. ALIGN PLATFORM FRAMING MEMBERS TO UTILIZE LOCATION OF EXISTING SPRING BUMPERS TO REMAIN. (GUIDE RAILS TO BE RETAINED) CAB DIMENSION REQUIREMENTS: MATCH EXISTING CAB WIDTH, DEPTH, AND CEILING HEIGHT (FIELD VERIFY)
9	ALUMINUM CHECKER PLATE FLOOR
10	4' HIGH STAINLESS STEEL VENTILATED BASE WITH #4 BRUSHED FINISH
11	PREFINISHED "OFF WHITE" STEEL PANEL CEILING. PANELS ORIENTED FROM FRONT TO REAR OF CAB WITH CENTER PANEL CUT OUT FOR A 2X4 RECESSED LED LIGHT FIXTURE WITH 3X4 CELL PARABOLIC DIFFUSER
12	A. 5/8" FINISH STAINLESS STEEL SIDE AND REAR WALL PANELS WITH SAFETY PAD HOOKS B. #4 BRUSHED FINISH STAINLESS STEEL FRONT WALL PANEL AND RETURNS TO CAB DOOR. C. #4 BRUSHED FINISH STAINLESS STEEL WALL PANEL CONTAINING MAIN COP.
13	8" WIDE S.S. CAB RAILINGS WITH #4 BRUSHED FINISH ON BOTH SIDE WALLS AND REAR CAB WALL AND FABRICATED TO ACCOMMODATE AUXILIARY CAR PANEL ON RAILING OPPOSITE THE WALL WHERE THE MAIN COP IS LOCATED.
14	MAIN CAR OPERATING PANEL WITH #4 BRUSHED STAINLESS STEEL FINISH LOCATED AT THE SIDE WALL OF CAB AT THE SAME LOCATION AS THE OBSOLETE MAIN COP.
15	AUXILIARY CAR OPERATING PANEL WITH #4 BRUSHED STAINLESS STEEL FINISH LOCATED AT THE SIDE WALL OF CAB IN THE HANDRAIL OPPOSITE FROM THE MAIN COP.
16	(4) PANEL BIPARTING STAINLESS STEEL CAB DOOR OF SAME DESIGN AS EXISTING OBSOLETE DOOR EXCEPT NEW DOORS TO HAVE 5/8" FINISH (VERTICAL PATTERN) COMPLETE WITH NEW DOOR OPERATING HARDWARE
17	TRAVELING CABLES AND CONNECTIONS CONNECTING CAR OPERATING PANELS AND ELEVATOR CONTROLLER.
18	NICKEL/ALUMINUM CAB DOOR THRESHOLDS
19	COMPLETE CAR TOP INSPECTION STATION
20	ROLLER GUIDES ALL LOCATIONS
21	ILLUMINATED FLOOR INDICATOR AND ANNUNCIATOR
MACHINE ROOM: PROVIDE THE FOLLOWING:	
22	PROGRAMMABLE SOLID STATE HYDRAULIC ELEVATOR CONTROLLER AND PROGRAMMING FOR ELEVATOR OPERATION TO MEET REQUIREMENTS OF MICHIGAN ELEVATOR CODE AND MSU SPECIFICATION STANDARDS.
23	CABLES, CONDUITS, FITTINGS, ETC. FOR CONNECTING CONTROLLER TO PUMP AND CAR OPERATING PANELS.
24	HYDRAULIC ELEVATOR PUMP (CAPACITY AND ELECTRICAL CHARACTERISTICS TO BE SIMILAR TO EXISTING PUMP AND CAPABLE OF PROVIDING TRAVEL SPEED OF 125 FPM) PROVIDE NECESSARY ELECTRICAL AND PIPING MODIFICATIONS FOR CONNECTING PUMP AND CYLINDERS.
25	PREP AND PAINT MACHINE ROOM WALLS BENJAMIN MOORE PAINT COLOR "WINTER WHEAT #232"
26	PREP AND PAINT MACHINE ROOM FLOOR, STEPS, AND RISERS WITH BENJAMIN MOORE PAINT COLOR "DECK GRAY PF-11" -
27	PREP AND PAINT MACHINE ROOM DOOR AND FRAME (MACHINE ROOM SIDE ONLY) WITH BENJAMIN MOORE PAINT COLOR "WINTER WHEAT #232"
HOISTWAY AND PIT AREA: PROVIDE THE FOLLOWING:	
28	FORMED CONCRETE SUMP. GALVANIZED STEEL GRATING. SUMP PUMP, PIPING, FITTINGS, FOR CONNECTION TO OIL SEPARATOR. SUMP PUMP INSTALLED BELOW GRATING - SEE MECHANICAL/ELECTRICAL DRAWINGS.
29	HYDRAULIC CYLINDER AT EACH HOISTWAY
30	INSPECT EXISTING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE BASE COST FOR CASING REPLACEMENT AS AN ALTERNATE COST IN BID.
31	PREP AND PAINT EXISTING STRUCTURAL STEEL SUPPORTS FOR HYDRAULIC JACK AND SPRING BUMPERS. MATCH EXISTING PAINT COLOR
32	CLEAN, PREP, AND PAINT ELEVATOR PIT FLOOR SHERWIN WILLIAMS COLOR "GRAY MATTERS - #50704. PREP PIT WALLS UP TO THE FIRST FLOOR LINE AND TOUCH UP PAINT WITH COLOR AND SHEEN TO MATCH EXISTING PAINTED PIT WALLS. PAINT WALLS UP TO THE FIRST FLOOR LINE.
33	CHECK GUIDE RAILS FOR STRAIGHT AND UNIFORMLY VERTICAL ALIGNMENT. ADJUST AS NECESSARY TO ALIGN RAILS.
34	NEW 12" WIDE STEEL LADDER FOR PIT ACCESS EXTENDING 4 FEET ABOVE IMMEDIATE FLOOR LEVEL ADJACENT TO PIT FLOOR



**NEW ELEVATOR EP12  
SUB-BASEMENT LEVEL**  
482701 1/4"=1'-0"

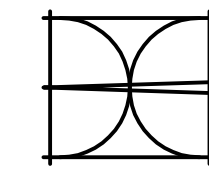
**NEW ELEVATOR EP2  
BASEMENT LEVEL**  
482701 1/4"=1'-0"



**NEW ELEVATOR EP2  
FIRST FLOOR LEVEL**  
482701 1/4"=1'-0"

**NEW ELEVATOR EP2  
SECOND FLOOR LEVEL**  
482701 1/4"=1'-0"

ELEVATOR -EP2  
CAPACITY - 2,000 LBS.  
SPEED - 125 FPM

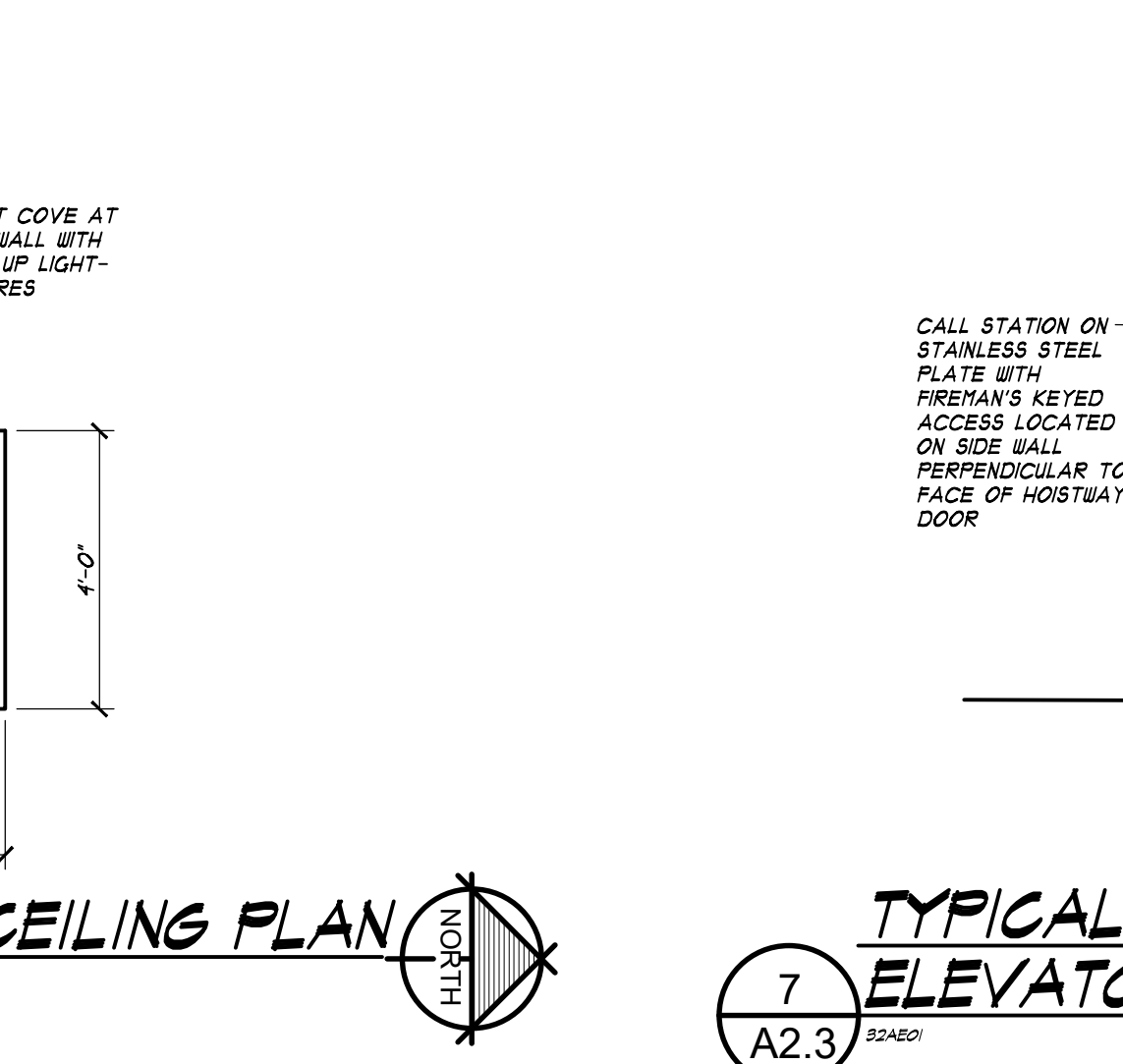
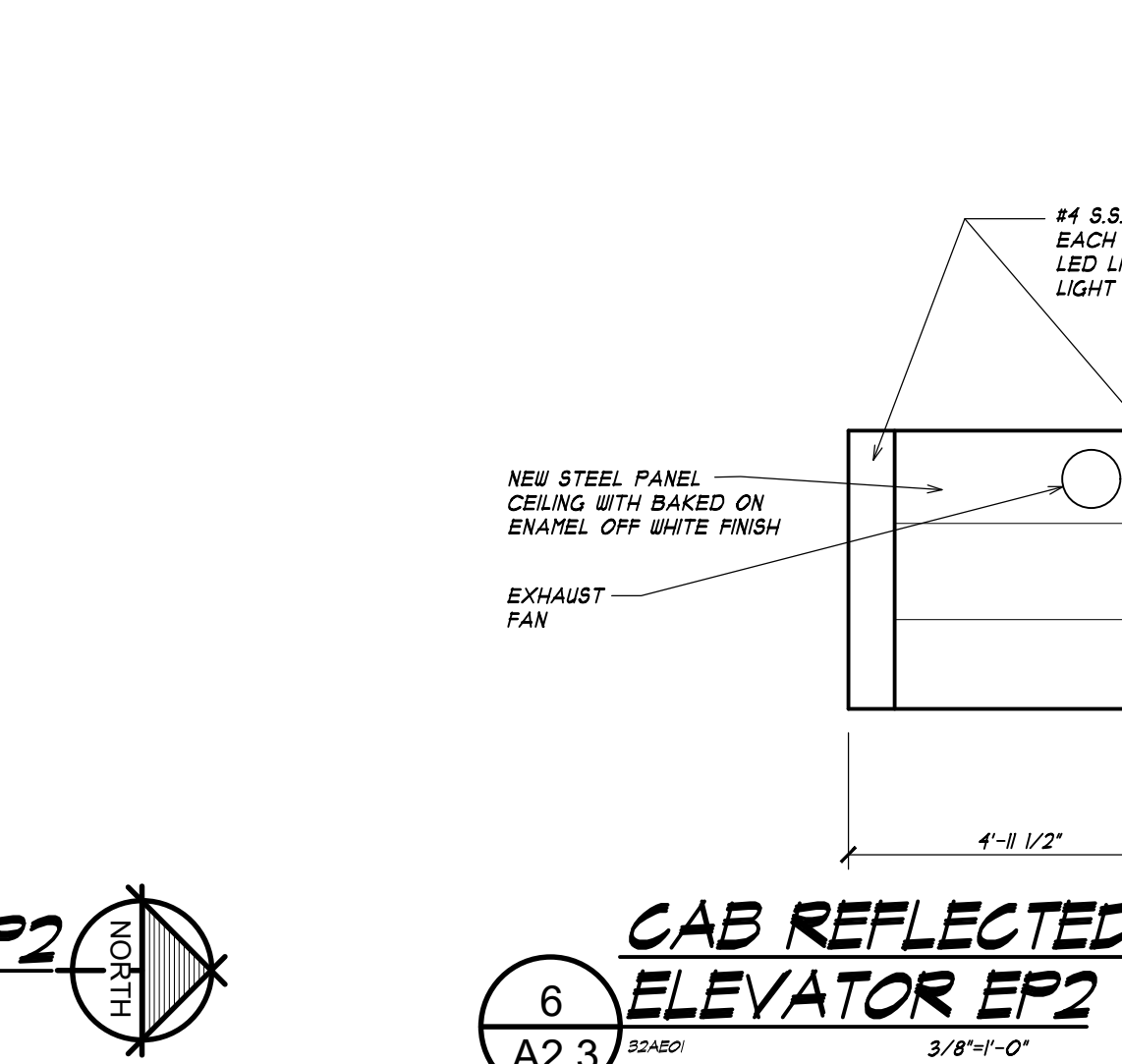
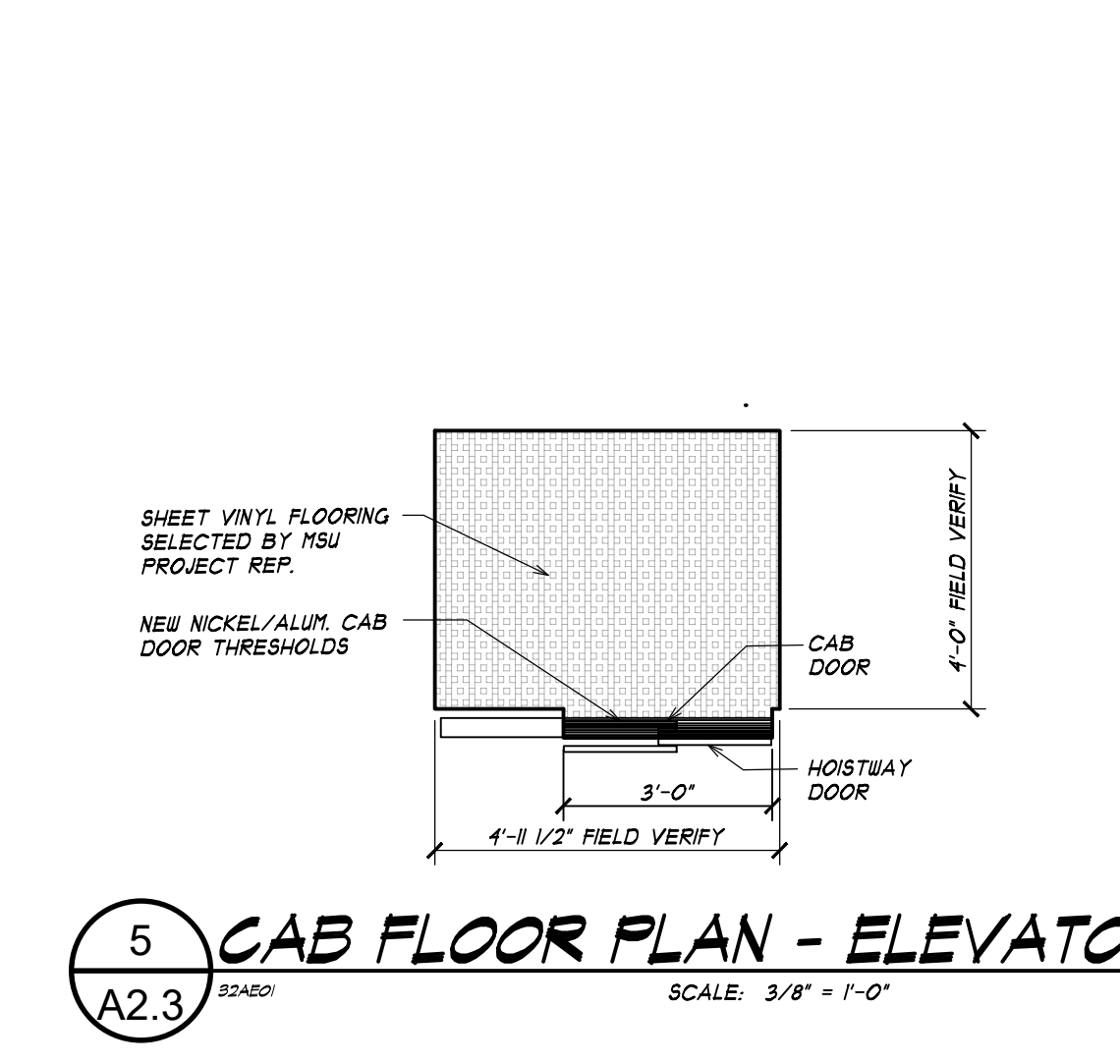
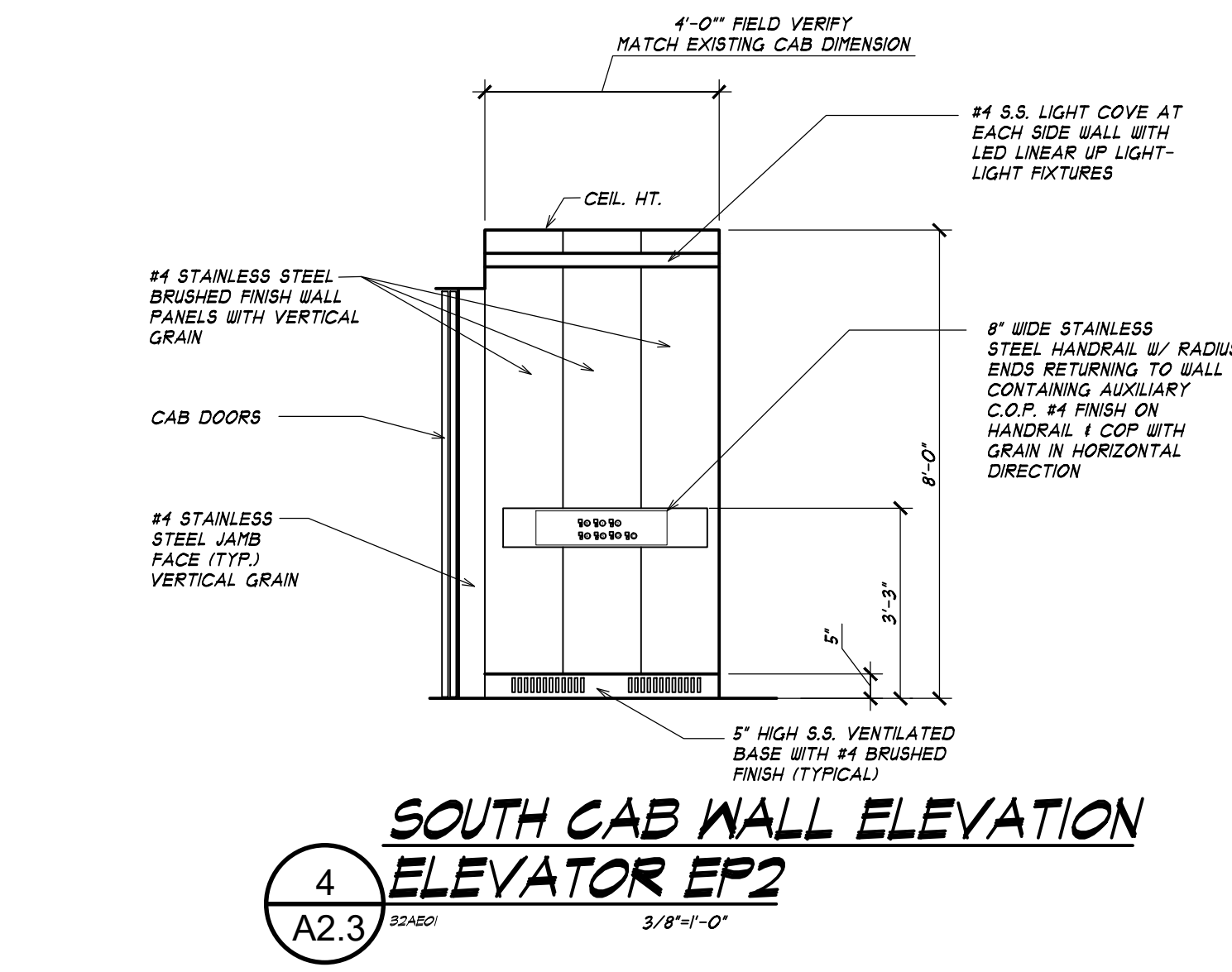
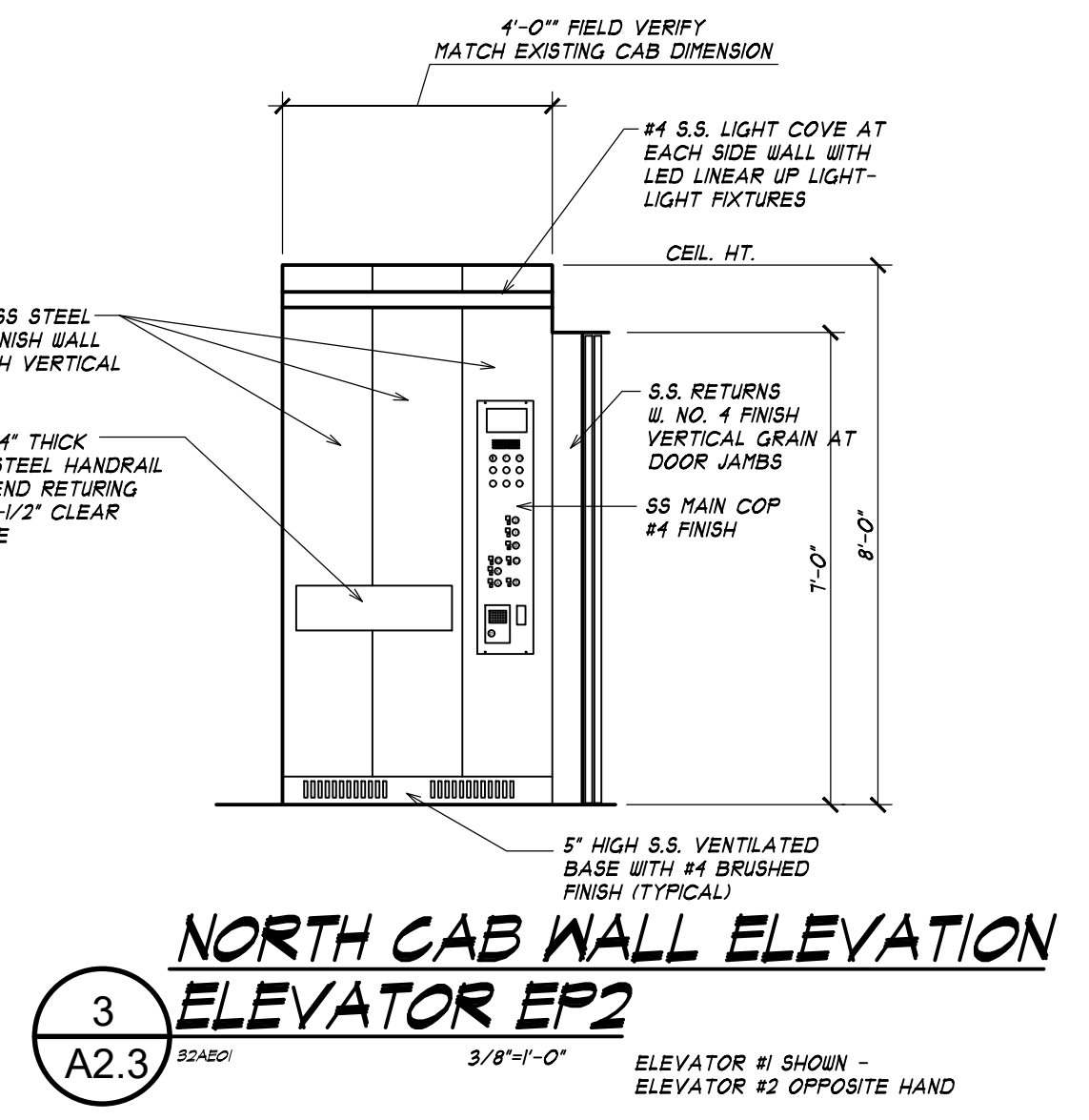
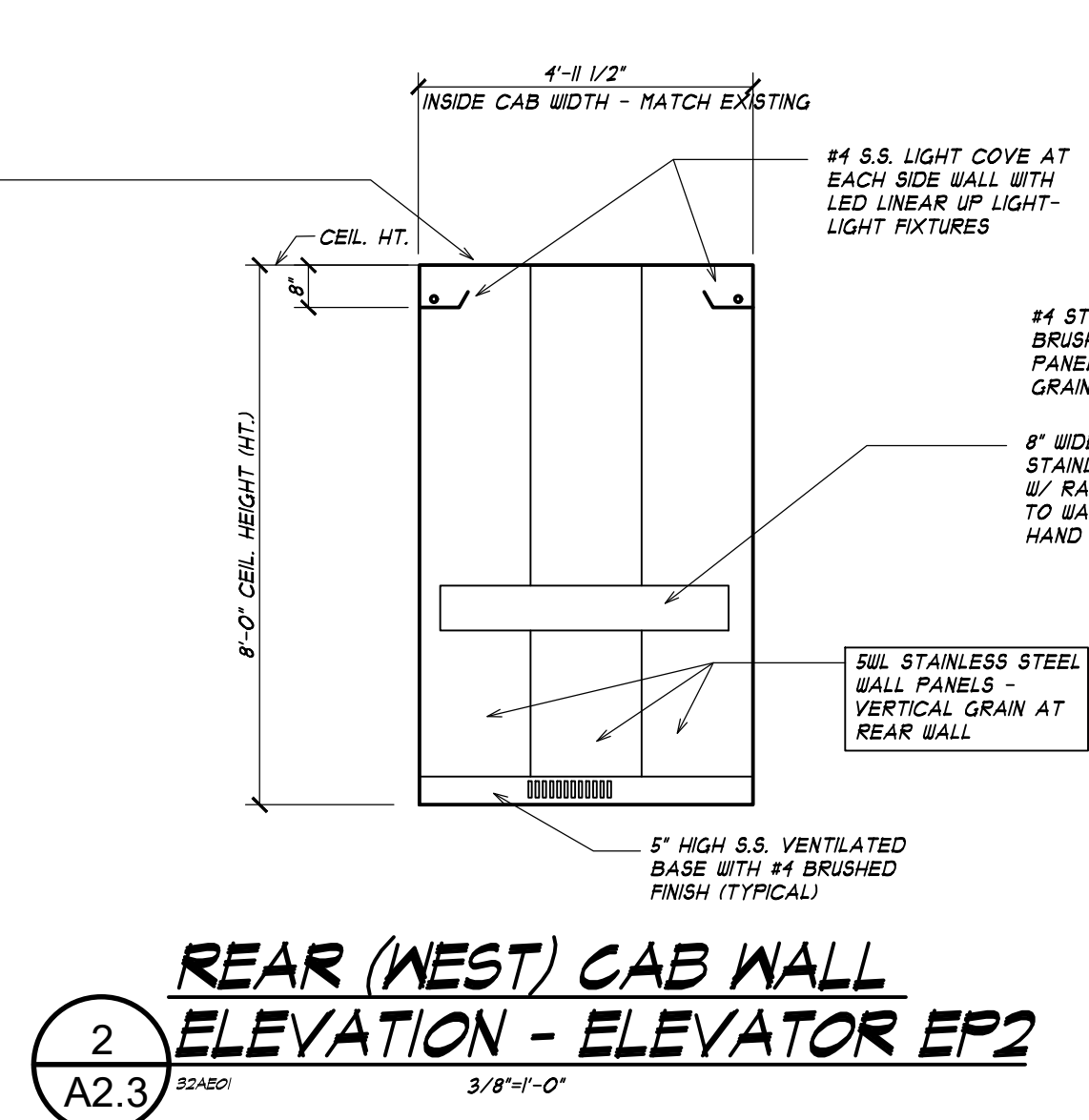
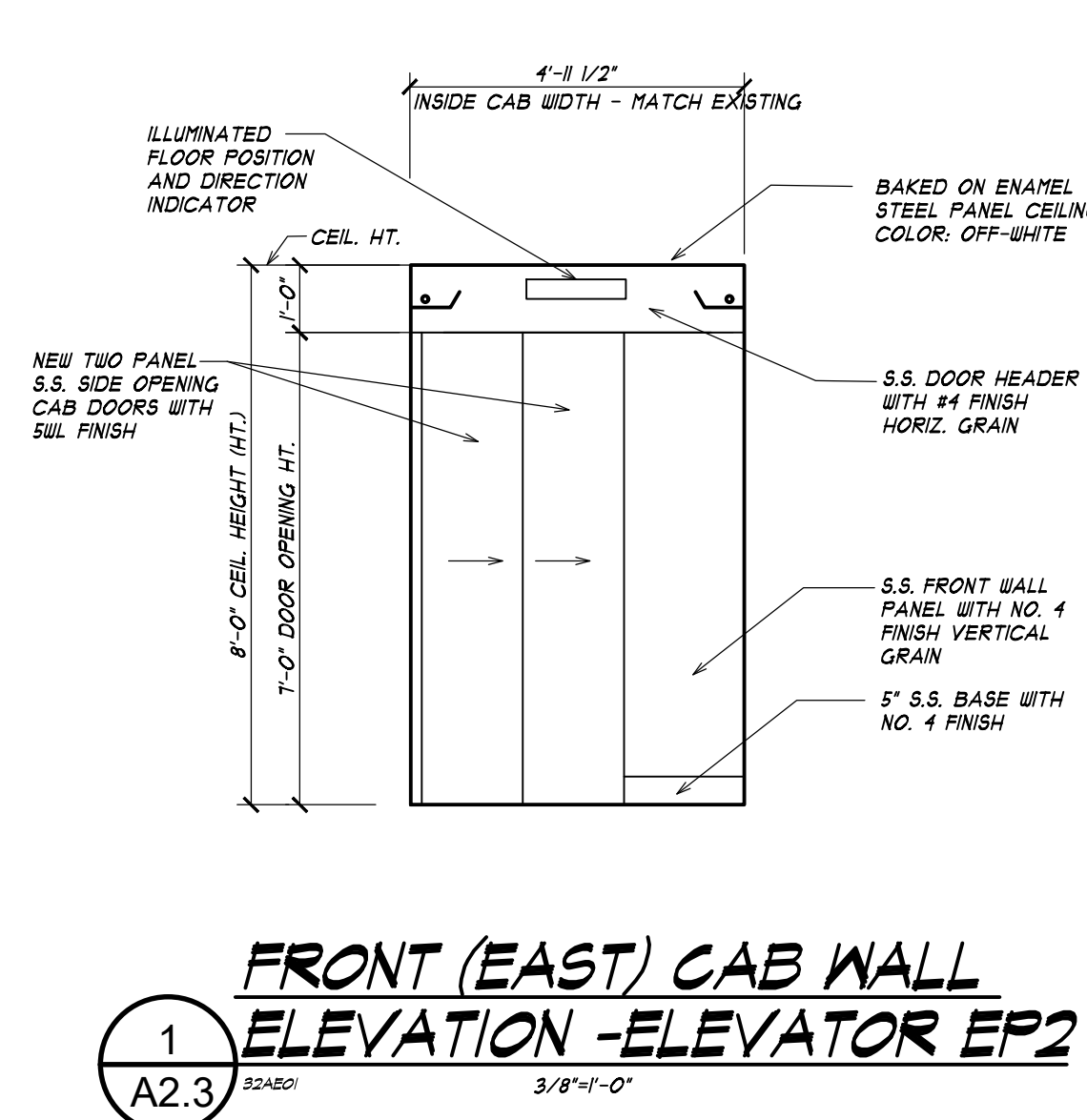


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Planning and Facilities

MICHIGAN STATE  
UNIVERSITY

ANTHONY HALL  
REPLACE ELEVATORS 1, 2, 3, and 4



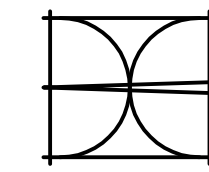
CAPITAL PROJ. NO.  
CP23041

LEAD	T. Pacifico
ARCH.	B. Charland
MECH.	S. George
ELEC.	K. Howard
CIVIL	
L.A.	
INT. DES.	
CONST REP	T. Pacifico
APPR.	J. Bonk
DATE	9/27/2023

SCALE AS NOTED  
REVISIONS

RELEASED FOR BIDS

A2.3

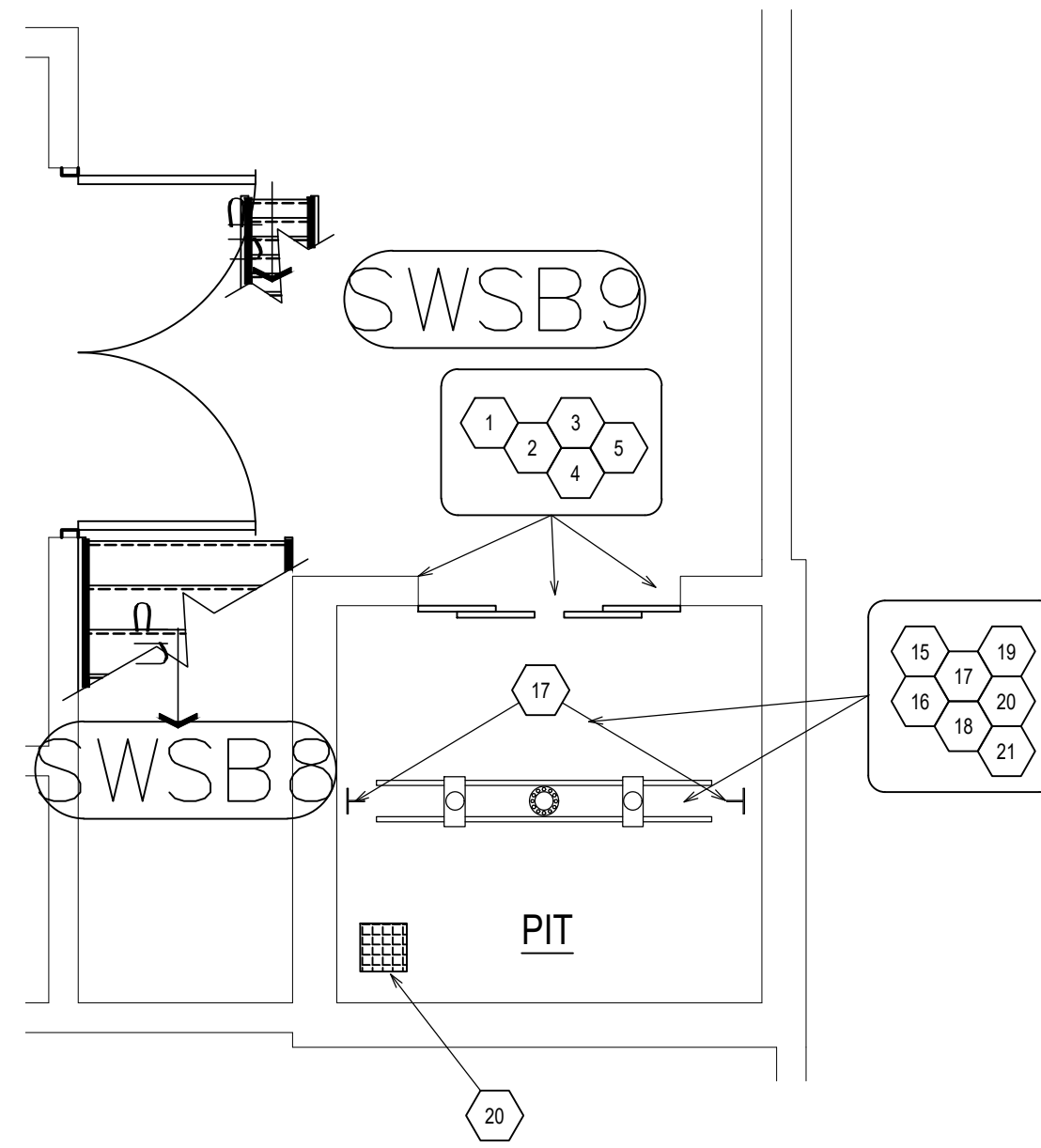


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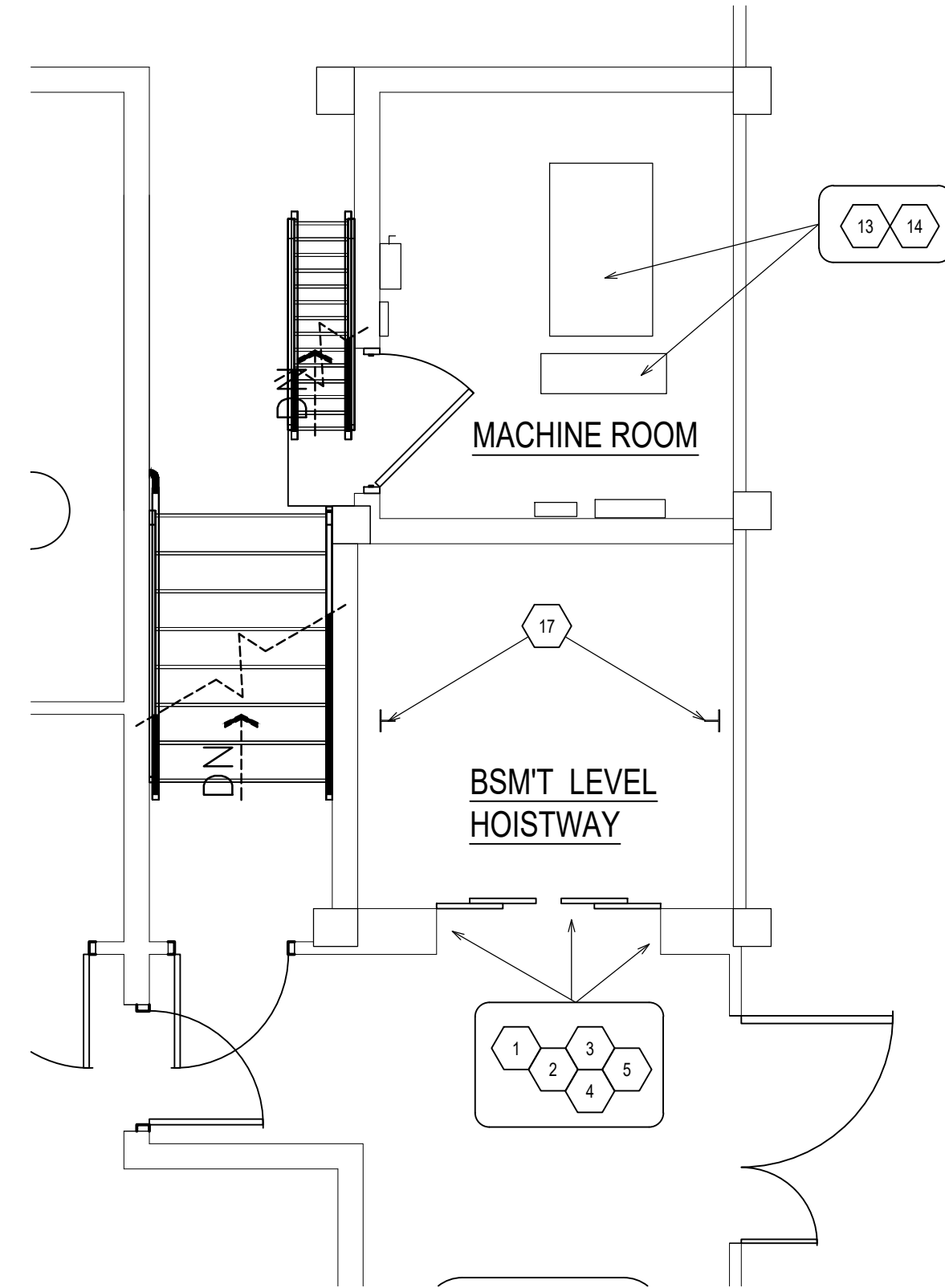
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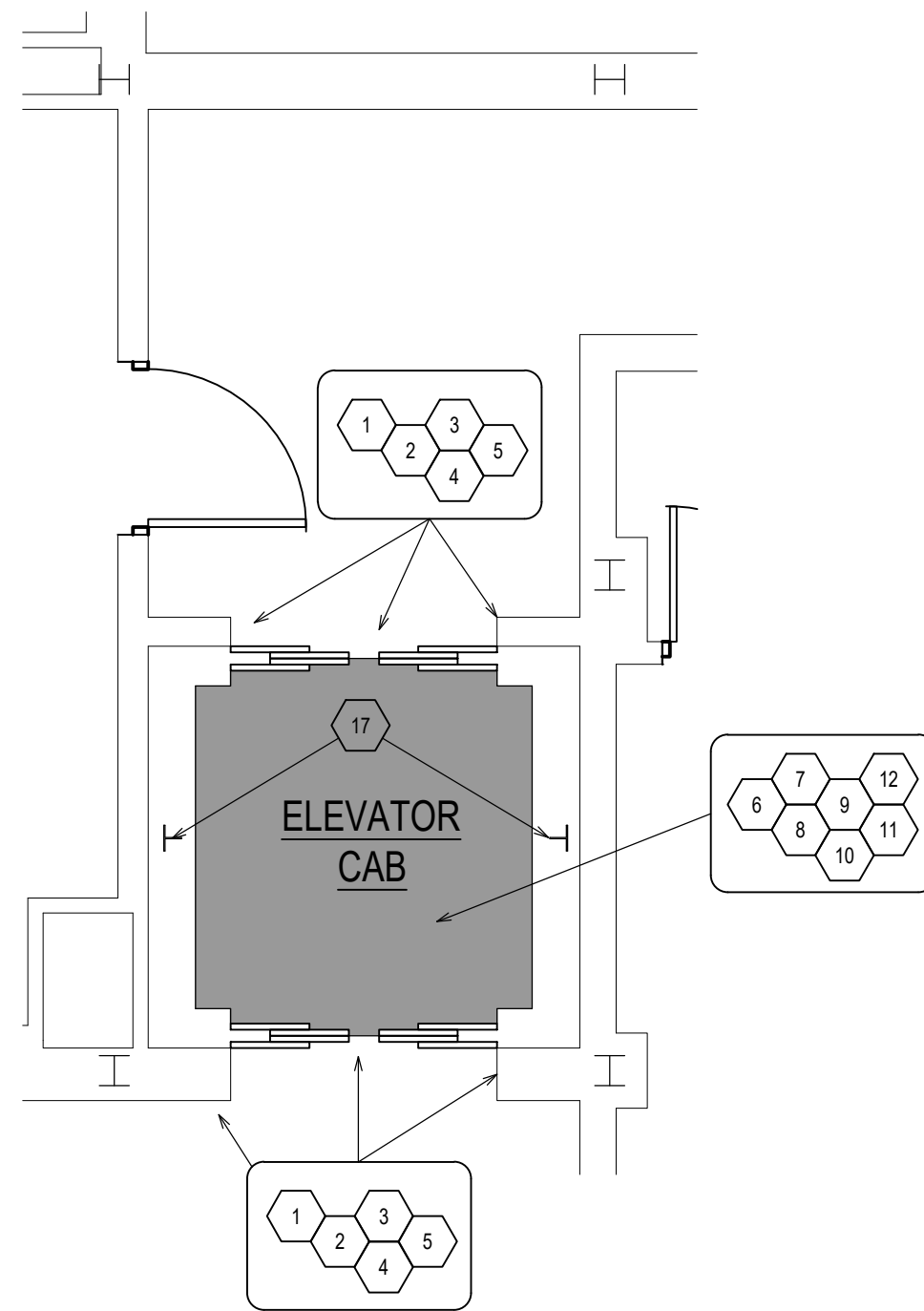
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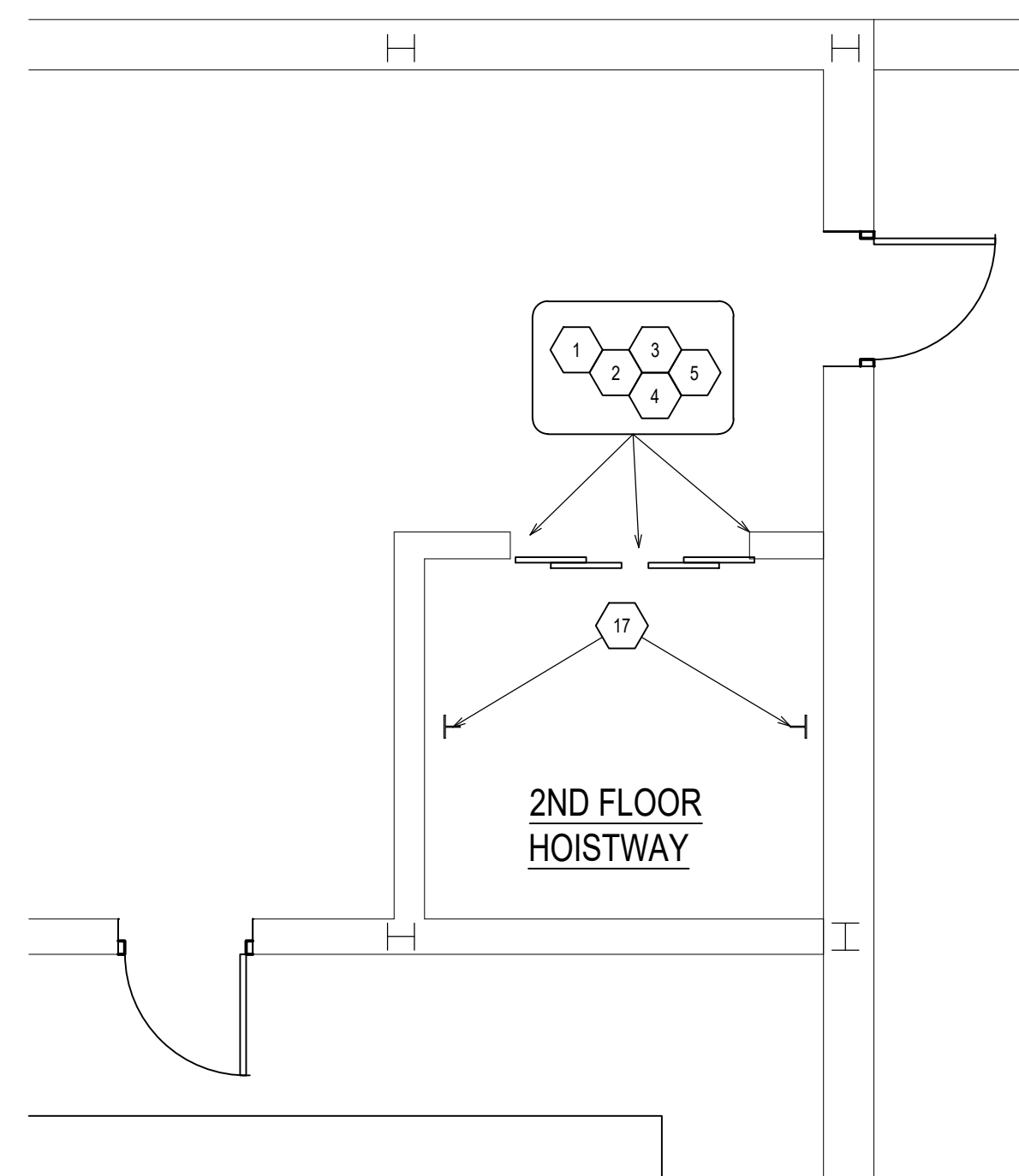
**DEMO ELEVATOR EP3  
SUB-BASEMENT LEVEL**  
1/4"=1'-0"



**DEMO ELEVATOR EP3  
BASEMENT LEVEL**  
1/4"=1'-0"



**DEMO ELEVATOR EP3  
FIRST FLOOR LEVEL**  
1/4"=1'-0"



**DEMO ELEVATOR EP3  
SECOND FLOOR LEVEL**  
1/4"=1'-0"

**KEY DEMOLITION NOTES  
ELEVATORS EP3**

ELEVATOR LOBBIES AT ALL LEVELS	
1	PREP WALL ADJACENT HOISTWAY DOORS (7'-4" A.F.F.) FOR NEW LANTERN. (NO HALL LANTERN CURRENTLY EXISTS)
2	REMOVE EXISTING CALL STATIONS AND PREP WALL AS REQUIRED FOR NEW CALL STATIONS
3	REMOVE EXISTING HOISTWAY DOORS, DOOR OPERATING HARDWARE, AND TRACK. EXISTING HOISTWAY THRESHOLD TO BE RETAINED.
4	REMOVE EXIST FLOOR DESIGNATION SIGNAGE ON HOISTWAY DOOR JAMBS
5	EXISTING HOISTWAY DOOR FRAMES TO REMAIN.
ELEVATOR CABS:	
6	REMOVE EXISTING CAB DOORS, DOOR OPERATING HARDWARE AND TRACK
7	EXISTING S.S. CAB CEILING TO REMAIN. REMOVE RECESSED 2X4 LIGHT FIXTURE. REMOVE EXHAUST FAN ABOVE CEILING. PREP S.S. CEILING FOR PAINTING AND INSTALLATION OF NEW 2X4 RECESSED LIGHT FIXTURE. TEMPORARILY REMOVE OTHER DEVICES ON CEILING FOR REFINISHING OF CEILING.
8	REMOVE CAB FLOOR AND PLATFORM, FRAMING, ROLLER GUIDES.
9	REMOVE ENTIRE STAINLESS STEEL CAB, INCLUDING FLOORS, WALLS, CEILING, LIGHTING, EXHAUST FAN, AND CAR TOP INSPECTION STATION.
10	REMOVE CAB RAILINGS
11	REMOVE MAIN CAR OPERATING PANELS AND AUXILIARY COP ALONG WITH ASSOCIATED CONTROL WIRING.
12	REMOVE TRAVELING CONTROL CABLES BETWEEN CONTROLLER AND CAB.
MACHINE ROOM:	
	REMOVE EXISTING CONTROLLER AND ASSOCIATED CONTROL AND POWER WIRING TO CAB, COP, AUXILIARY COP, AND PUMP.
	REMOVE EXISTING HYDRAULIC PUMP - RETAIN PIPING WERE POSSIBLE.
ELEVATOR PIT AREA:	
15	REMOVE EXISTING HYDRAULIC CYLINDER
16	TEMPORARILY REMOVE SUPPORT STRUCTURE FOR CYLINDER AND BUMPERFS AS REQUIRED FOR REPLACEMENT OF CYLINDER.
17	EXIST GUIDE RAILS AND SUPPORT STRUCTURE AT WALLS FOR GUIDE RAILS TO REMAIN - CHECK RAILS FOR PLUMB AND ALIGNMENT. CORRECT AS REQUIRED
18	INSPECT EXISTING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE ALTERNATE PRICE FOR REPLACEMENT OF CASING SEPARATE FROM BASE BID.
19	CLEAN DIRT AND DEBRIS FROM PIT FLOOR AND WALLS. TREAT CONCRETE FLOOR WITH "PULL IT OUT" OIL REMOVER PER MANUFACTURERS DIRECTIONS. PH.: 1 (430) 482-5945
20	CUT OUT PORTION OF EXISTING PIT FLOOR FOR INSTALLATION OF NEW FORMED CONCRETE SUMP
21	TEMPORARILY REMOVE PIT LADDER FOR REFINISHING.

CAPITAL PROJ. NO.  
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DATE 9/27/2023

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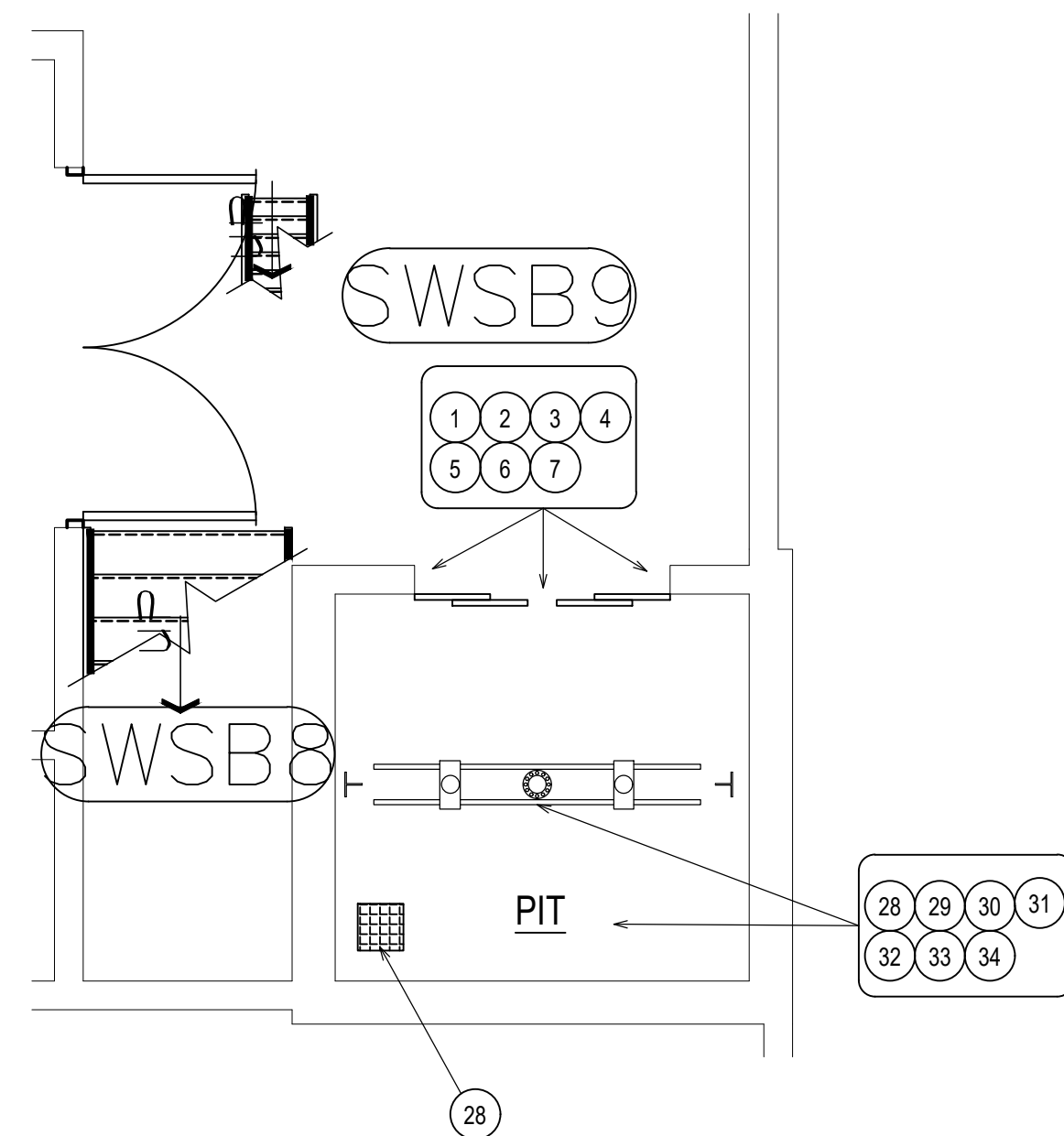
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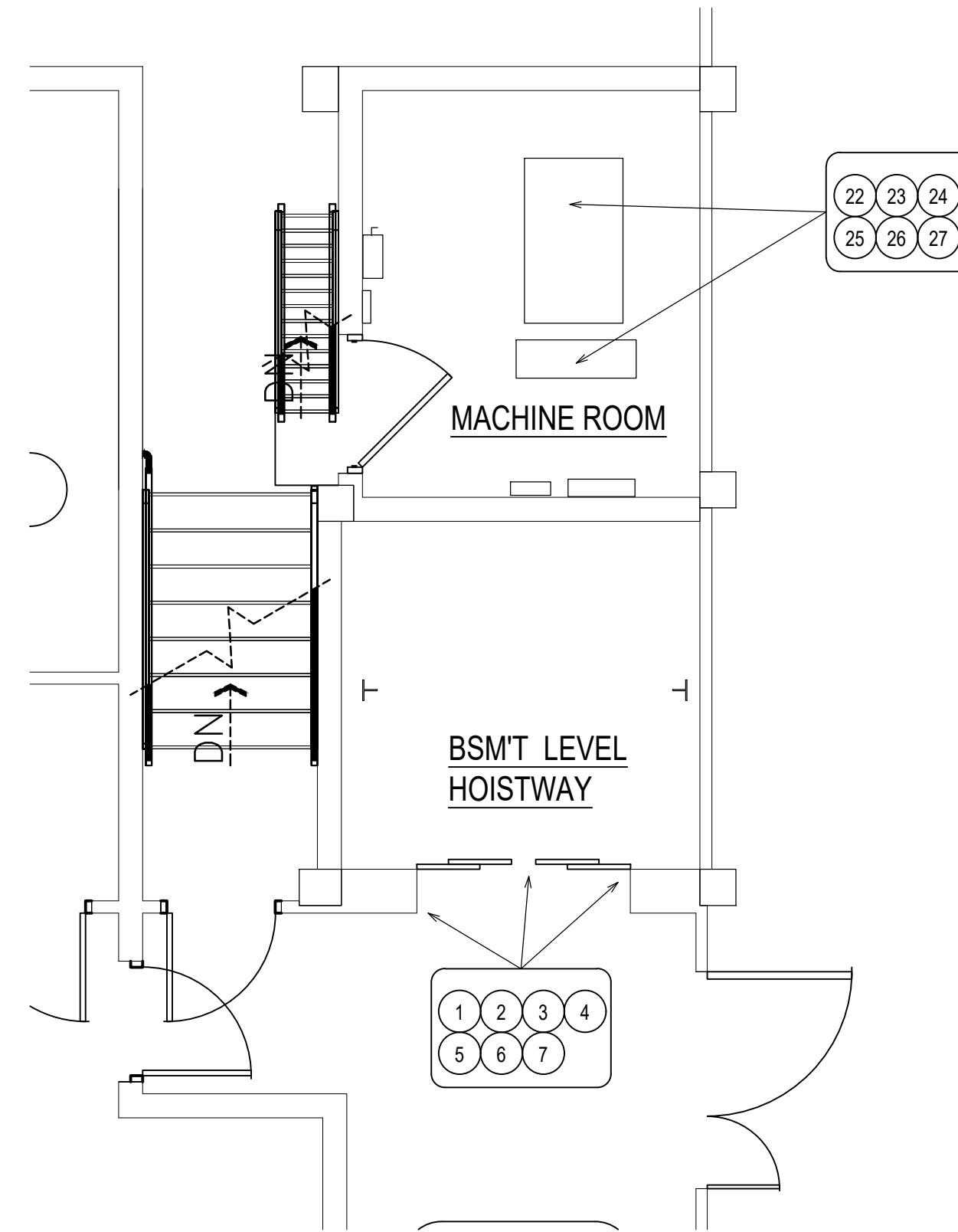


**KEY RENOVATION WORK  
ELEVATOR EP3**

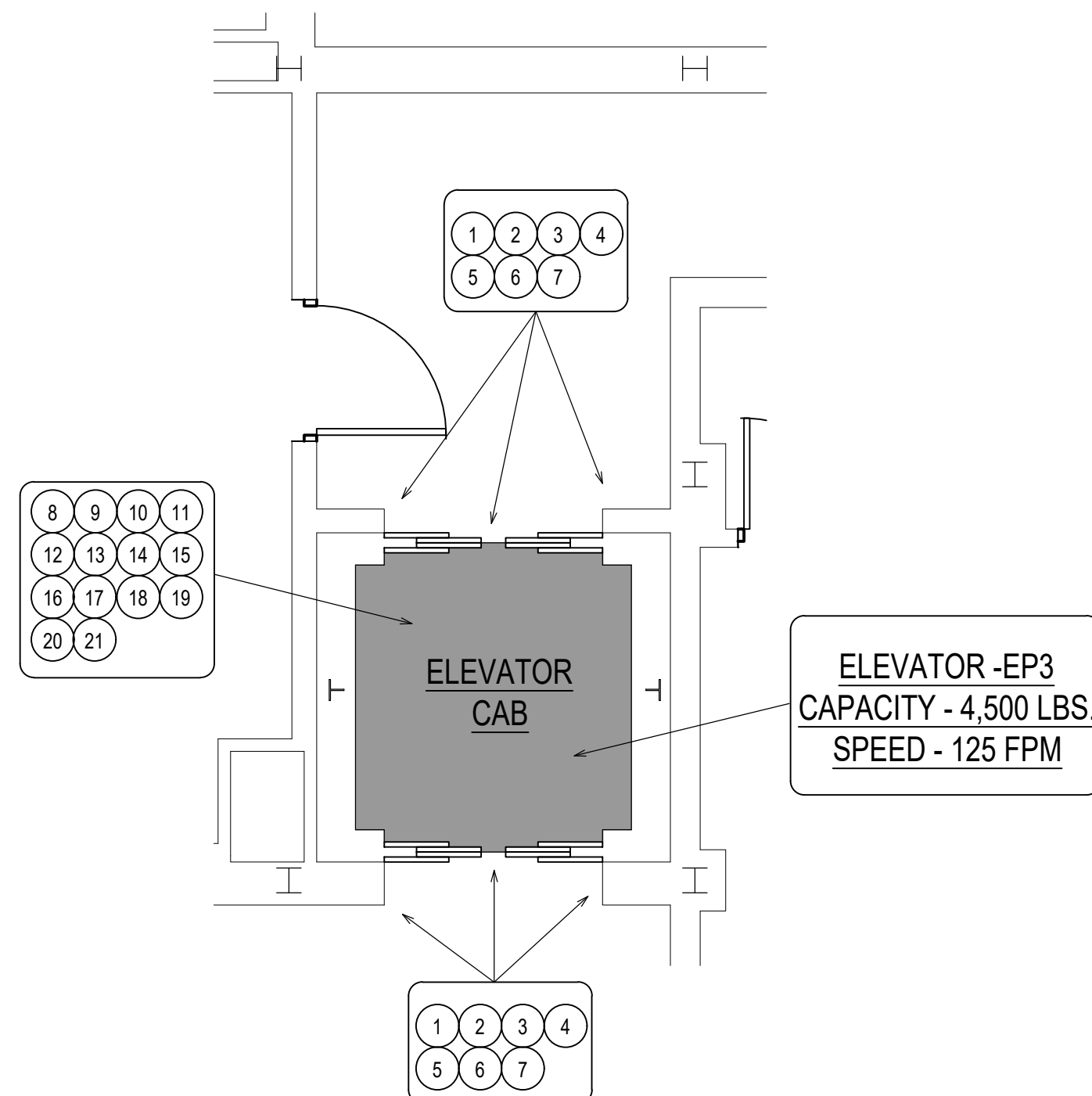
ELEVATOR LOBBIES AT ALL STOPS PROVIDE THE FOLLOWING:	
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2	CALL STATIONS AT EACH LANDING WITH ILLUMINATED CALL BUTTONS WITH KEYED ACCESS AT TOP AND BOTTOM LEVELS WITH STAINLESS STEEL FINISH
3	PROVIDE SUFFICIENT SIZE S.S. PLATES W/ #4 BRUSHED FINISH TO COVER PREVIOUS OPENINGS AT CALL STATIONS 1 LANTERNS AS REQUIRED.
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14	MAIN CAR OPERATING PANEL AND SECONDARY COP WITH #4 BRUSHED STAINLESS STEEL FINISH LOCATED AT THE SIDE WALLS OF CAB AT THE SAME LOCATION AS THE OBSOLETE MAIN COPS
15	AUXILIARY CAR OPERATING PANEL WITH #4 BRUSHED STAINLESS STEEL FINISH LOCATED AT THE SIDE WALL OF CAB IN THE HANDRAIL OPPOSITE FROM THE MAIN COP.
16	1/4" PANEL BIPARTING STAINLESS STEEL CAB DOOR OF SAME DESIGN AS EXISTING, OBSOLETE DOOR EXCEPT NEW DOORS TO HAVE 5/8" FINISH (VERTICAL PATTERN) COMPLETE WITH NEW DOOR OPERATING HARDWARE
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19	COMPLETE CAR TOP INSPECTION STATION
20	ROLLER GUIDES ALL LOCATIONS
21	ILLUMINATED FLOOR INDICATOR AND ANNUNCIATOR
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26	PREP AND PAINT MACHINE ROOM FLOOR, STEPS, AND RISERS WITH BENJAMIN MOORE PAINT COLOR 'DECK GRAY PF-1'
27	PREP AND PAINT MACHINE ROOM DOOR AND FRAME (MACHINE ROOM SIDE ONLY) WITH BENJAMIN MOORE PAINT COLOR 'WINTER WHEAT #232'
HOISTWAY AND PIT AREA: PROVIDE THE FOLLOWING:	
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31	PREP AND PAINT EXISTING STRUCTURAL STEEL SUPPORTS FOR HYDRAULIC JACK AND SPRING BUMPERS. HATCH EXISTING PAINT COLOR
32	CLEAN, PREP, AND PAINT ELEVATOR PIT FLOOR SHERWIN WILLIAMS COLOR 'GRAY MATTERS - #501044. PREP PIT WALLS UP TO THE FIRST FLOOR LINE AND TOUCH UP PAINT WITH COLOR AND SHEEN TO MATCH EXISTING PAINTED PIT WALLS. PAINT WALLS UP TO THE FIRST FLOOR LINE.
33	CHECK GUIDE RAILS FOR STRAIGHT AND UNIFORMLY VERTICAL ALIGNMENT. ADJUST AS NECESSARY TO ALIGN RAILS.
34	NEW 4" WIDE STEEL LADDER FOR PIT ACCESS EXTENDING 4 FEET ABOVE IMMEDIATE FLOOR LEVEL ADJACENT TO PIT FLOOR



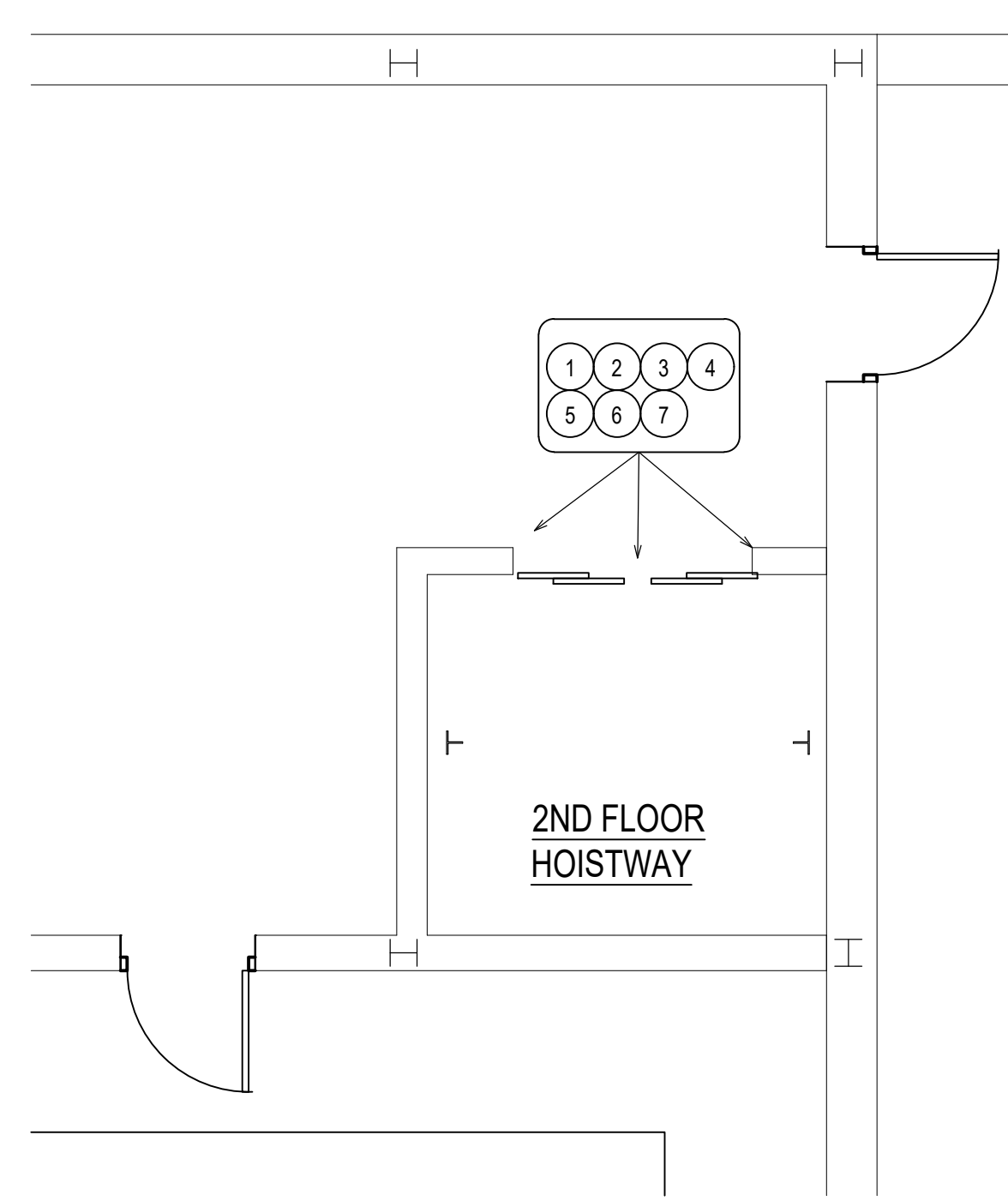
**NEW ELEVATOR EP3  
SUB-BASEMENT LEVEL**  
1/4"=1'-0"



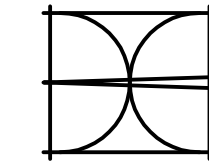
**NEW ELEVATOR EP3  
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1/4"=1'-0"



**NEW ELEVATOR EP3  
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**NEW ELEVATOR EP3  
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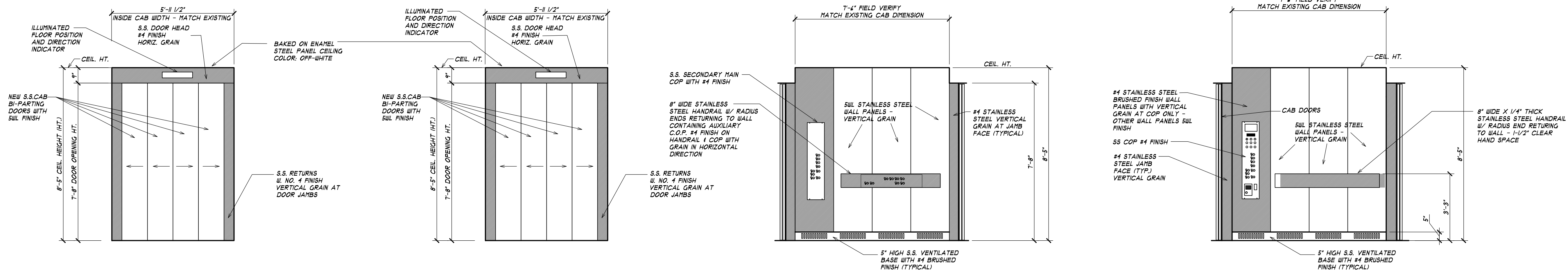
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ANTHONY HALL  
REPLACE ELEVATORS 1, 2, 3, and 4

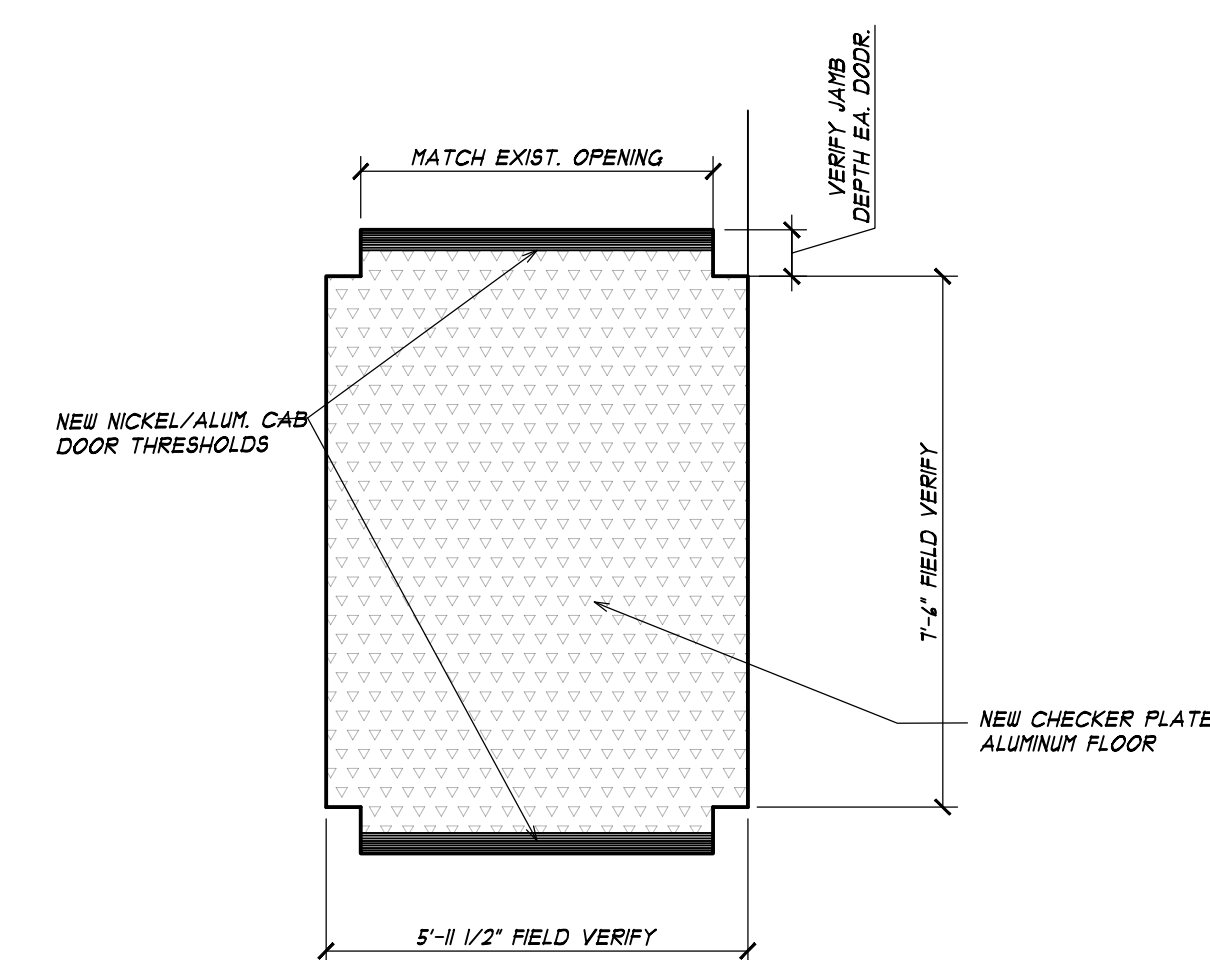


1  
A3.3  
FRONT (WEST) CAB WALL  
ELEVATION - ELEVATOR EP3  
3/8"=1'-0"

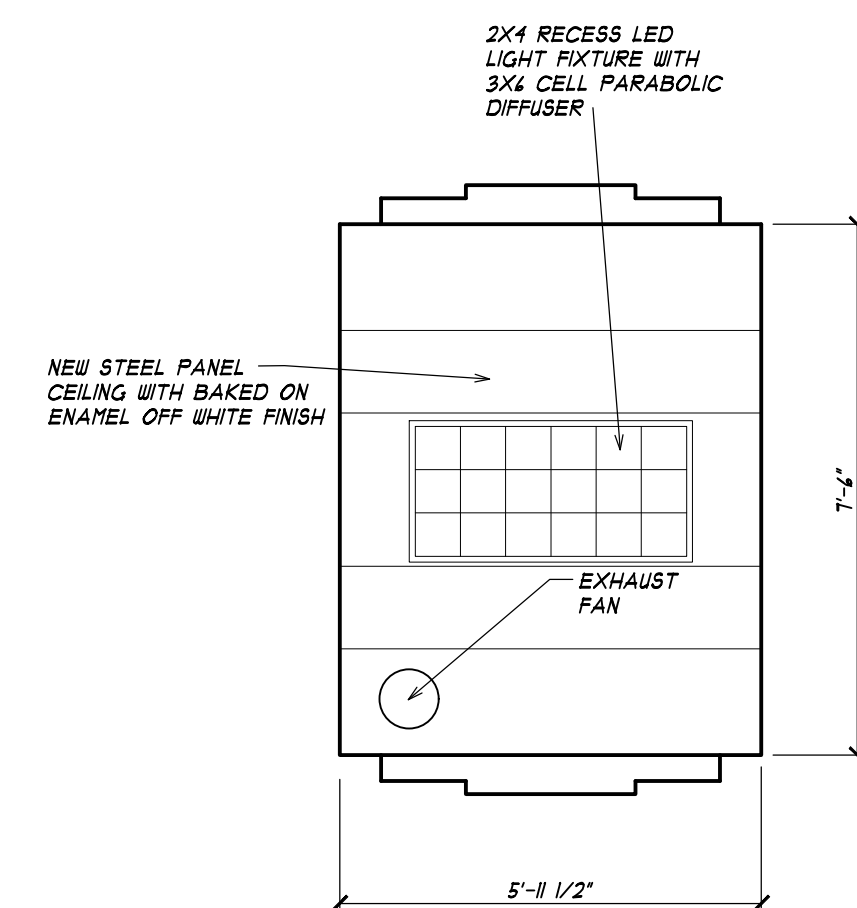
2  
A3.3  
REAR (EAST) CAB WALL  
ELEVATION - ELEVATOR EP3  
3/8"=1'-0"

3  
A3.3  
NORTH CAB WALL ELEVATION  
ELEVATOR EP3  
3/8"=1'-0" ELEVATOR #1 SHOWN -  
ELEVATOR #2 OPPOSITE HAND

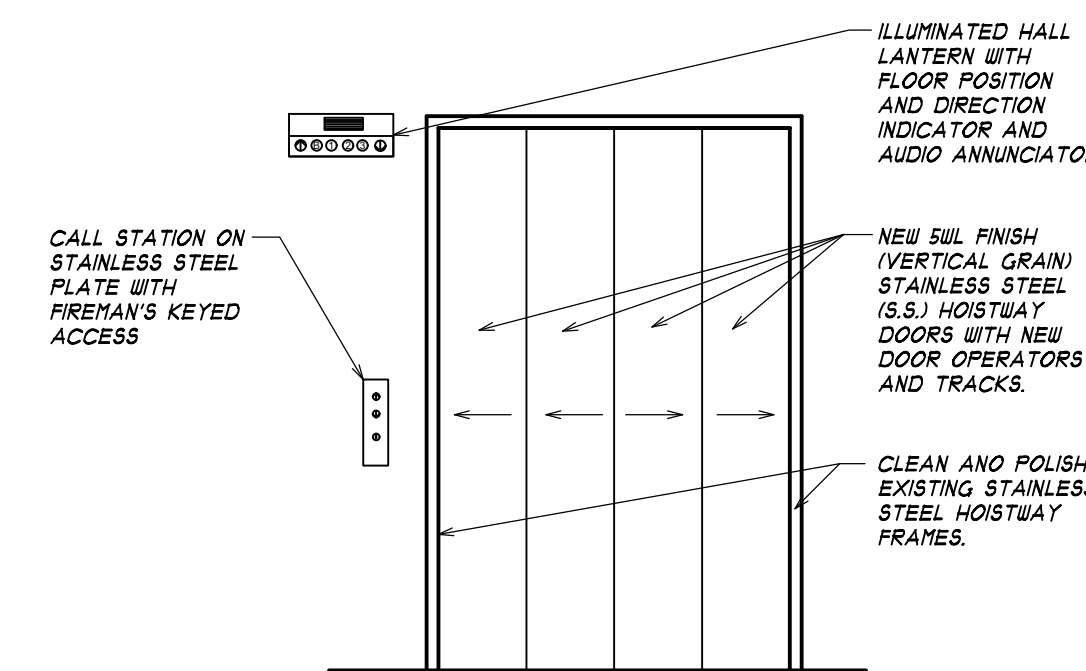
4  
A3.3  
SOUTH CAB WALL ELEVATION  
ELEVATOR EP3  
3/8"=1'-0"



5  
A3.3  
CAB FLOOR PLAN - ELEVATOR EP3  
SCALE: 3/8" = 1'-0"



6  
A3.3  
CAB REFLECTED CEILING PLAN  
ELEVATOR EP3  
3/8"=1'-0"



7  
A3.3  
TYPICAL HOISTWAY ENTRANCE  
ELEVATOR EP3  
3/8"=1'-0"

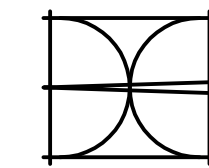
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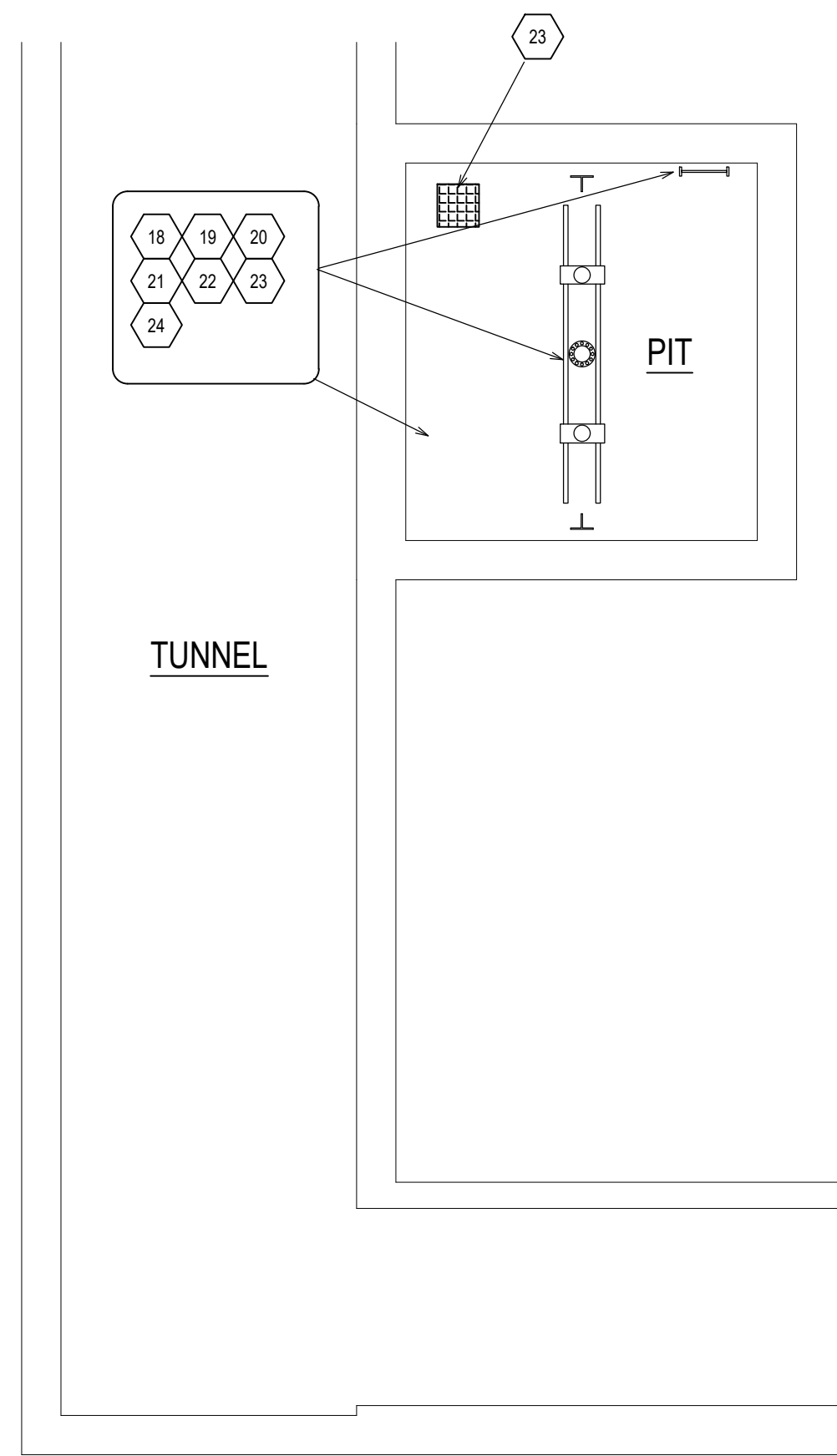


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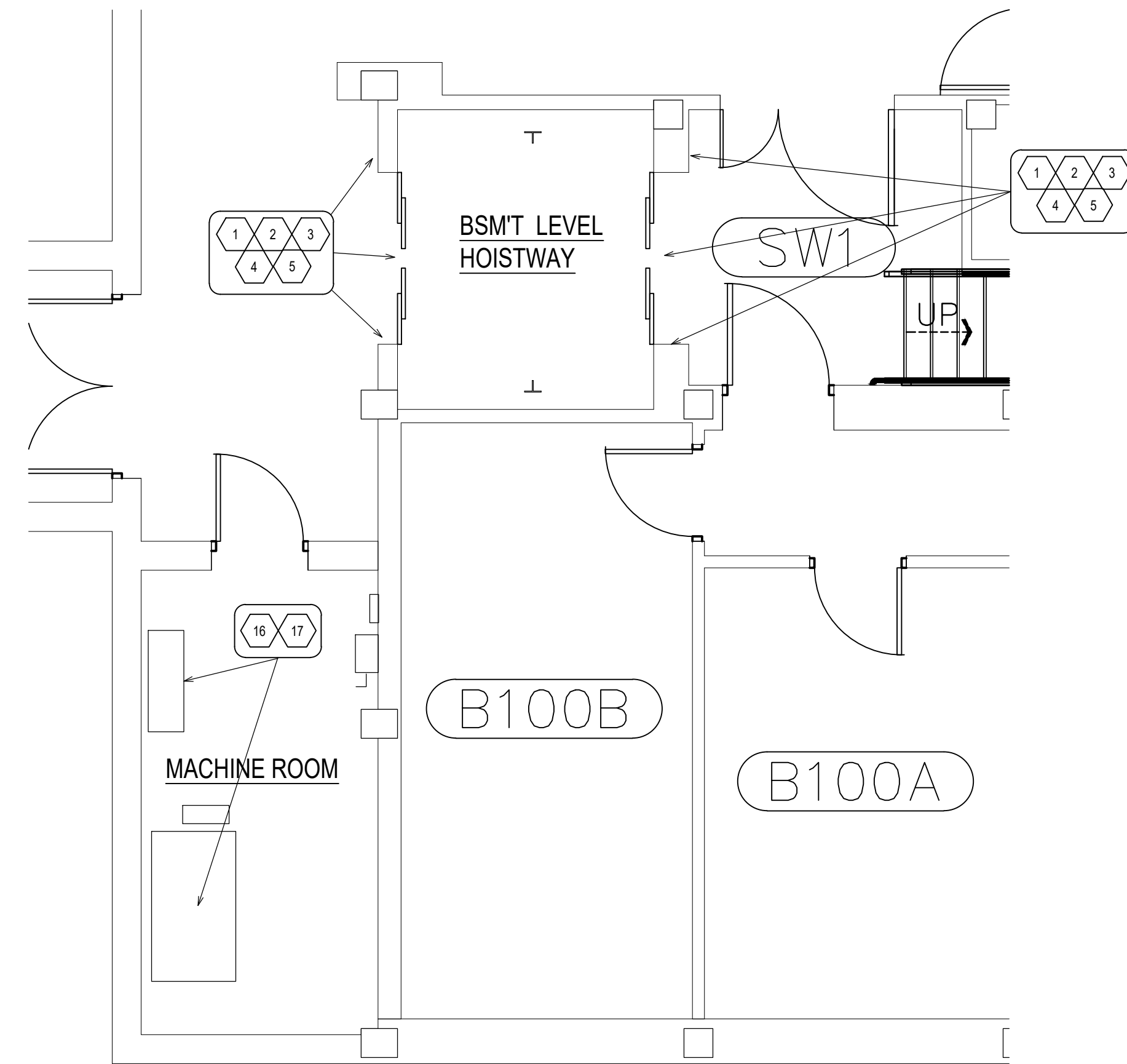
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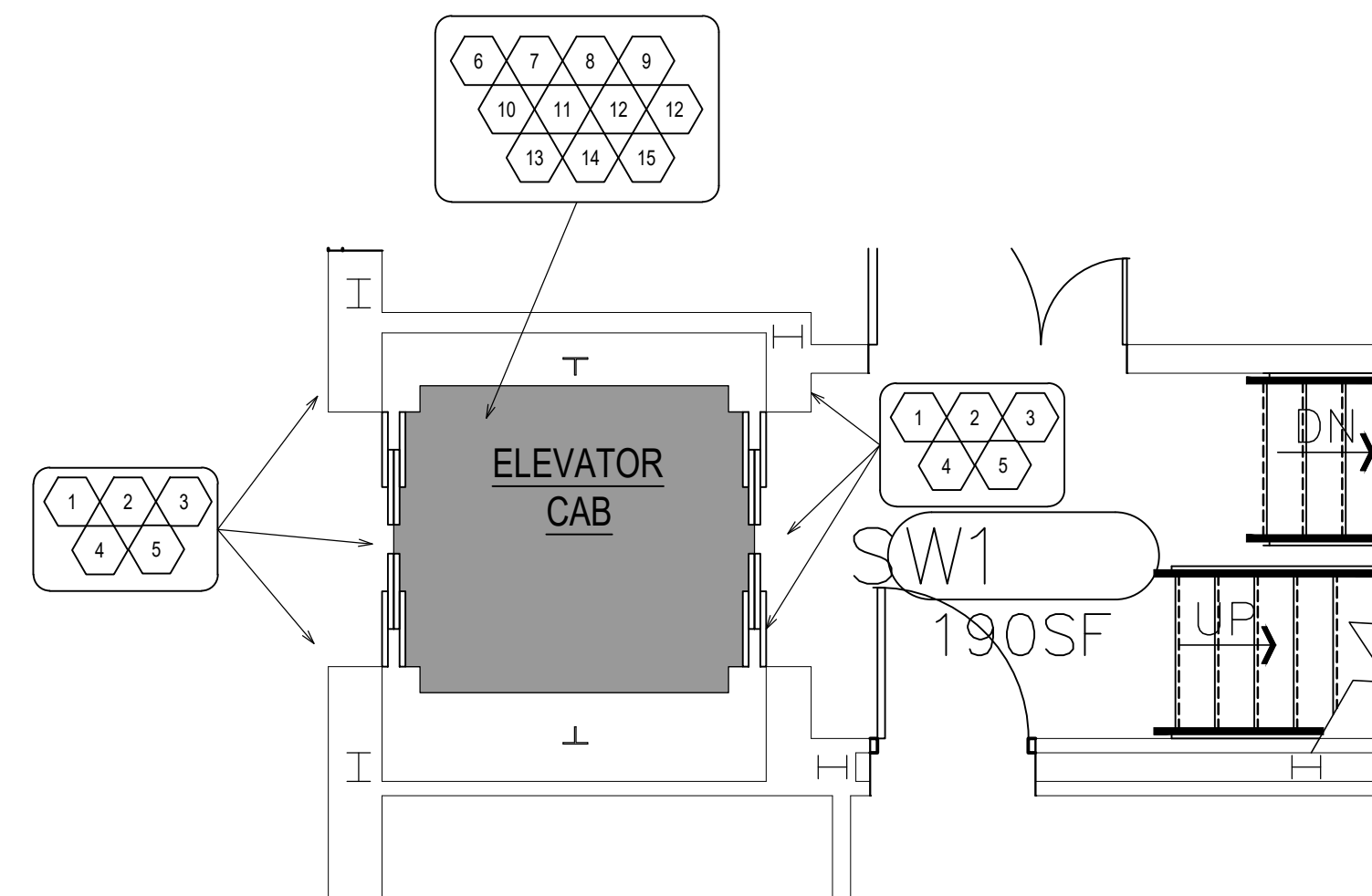
ANTHONY HALL  
REPLACE ELEVATORS 1, 2, 3, and 4



**DEMO ELEVATOR EP4  
SUB-BASEMENT LEVEL**  
1/4"=1'-0"



**DEMO ELEVATOR EP4  
BASEMENT LEVEL**  
1/4"=1'-0"



**DEMO ELEVATOR EP4  
FIRST FLOOR LEVEL**  
1/4"=1'-0"

**KEY DEMOLITION NOTES  
ELEVATORS EP4**

**ELEVATOR LOBBIES AT ALL LEVELS**

- 1 PREP WALL ADJACENT HOISTWAY DOORS (7'-4" A.F.F.) FOR NEW LANTERN. (NO HALL LANTERN CURRENTLY EXISTS)
- 2 REMOVE EXISTING CALL STATIONS AND PREP WALL AS REQUIRED FOR NEW CALL STATIONS
- 3 REMOVE EXISTING HOISTWAY DOORS, DOOR OPERATING HARDWARE, AND TRACK. EXISTING HOISTWAY THRESHOLD TO BE RETAINED.
- 4 REMOVE EXIST FLOOR DESIGNATION SIGNAGE ON HOISTWAY DOOR JAMBS
- 5 EXISTING HOISTWAY DOOR FRAMES TO REMAIN.

**ELEVATOR CABS:**

- 6 REMOVE EXISTING CAB DOORS, DOOR OPERATING HARDWARE AND TRACK
- 7 EXISTING S.S. CAB CEILING TO REMAIN. REMOVE RECESSED 2X4 LIGHT FIXTURE. REMOVE EXHAUST FAN ABOVE CEILING. PREP S.S. CEILING FOR PAINTING AND INSTALLATION OF NEW 2X4 RECESSED LIGHT FIXTURE. TEMPORARILY REMOVE OTHER DEVICES ON CEILING FOR REFINISHING OF CEILING.
- 8 CAB PLATFORM AND THRESHOLD TO REMAIN. CONCRETE FLOOR TO BE FINISHED WITH EPOXY GARAGE FLOOR COATING - SEE RENOVATION WORK REQUIREMENTS.
- 9 EXISTING STAINLESS STEEL WALL PANELS, RAISED WALL PANEL ACCENTS, AND STAINLESS STEEL RETURNS AT DOOR TO REMAIN. TEMPORARILY REMOVE WALL PANELS AS REQUIRED TO FACILITATE INSTALLATION OF NEW HANDRAILS AND AUXILIARY COP.
- 10 REMOVE CAB RAILINGS. (NOTE: NEW CAB RAILINGS ARE TO RE-PLACE EXISTING RAILINGS AND WILL REQUIRE STAINLESS STEEL MOUNTING PLATES ON WALL PANELS TO CONCEAL OBSOLETE MOUNTING HOLES.)
- 11 REMOVE MAIN CAR OPERATING PANELS AND AUXILIARY COP ALONG WITH ASSOCIATED CONTROL WIRING.
- 12 REMOVE TRAVELING CONTROL CABLES BETWEEN CONTROLLER AND CAB.
- 13 REMOVE CAB DOORS, AND CAB DOOR OPERATING HARDWARE, AND DOOR TRACK
- 14 REMOVE CAR TOP INSPECTION STATION
- 15 REMOVE ALL ROLLER GUIDES ROLLERS

**MACHINE ROOM:**

- 16 REMOVE EXISTING CONTROLLER AND ASSOCIATED CONTROL AND POWER WIRING TO CAB, COP, AUXILIARY COP, AND PUMP.
- 17 REMOVE EXISTING HYDRAULIC PUMP - RETAIN PIPING WHERE POSSIBLE.

**ELEVATOR PIT AREA:**

- 18 REMOVE EXISTING HYDRAULIC CYLINDER
- 19 TEMPORARILY REMOVE SUPPORT STRUCTURE FOR CYLINDER AND BUMPERFS AS REQUIRED FOR REPLACEMENT OF CYLINDER.
- 20 EXIST GUIDE RAILS AND SUPPORT STRUCTURE AT WALLS FOR GUIDE RAILS TO REMAIN
- 21 INSPECT EXISTING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE ALTERNATE PRICE FOR REPLACEMENT OF CASING SEPARATE FROM BASE BID.
- 22 CLEAN DIRT AND DEBRIS FROM PIT FLOOR AND WALLS. TREAT CONCRETE FLOOR WITH "PULL IT OUT" OIL REMOVER PER MANUFACTURERS DIRECTIONS. PH: 1 (430) 462-5995
- 23 CUT OUT PORTION OF EXISTING PIT FLOOR FOR INSTALLATION OF NEW FORMED CONCRETE SUMP
- 24 TEMPORARILY REMOVE PIT LADDER FOR REFINISHING.

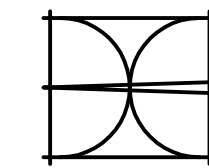
CAPITAL PROJ. NO.  
CP23041

LEAD T. Pacifico  
ARCH. B. Charland  
MECH. S. George  
ELEC. K. Howard  
CIVIL \_\_\_\_\_  
L.A. \_\_\_\_\_  
INT. DES. \_\_\_\_\_  
CONST REP T. Pacifico  
APPR. J. Bonk  
DATE 9/27/2023

SCALE AS NOTED  
REVISIONS

RELEASED FOR BIDS

A4.1



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LEAD ARCH.	T. Pacifico
MECH. ELEC.	B. Charland
CIVIL	S. George
INT. DES.	K. Howard
CONST REP	
APPR.	T. Pacifico
DATE	J. Bonk
SCALE	9/27/2023
REVISIONS	AS NOTED

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## KEY RENOVATION WORK ELEVATOR EP4

ELEVATOR LOBBIES AT ALL STOPS PROVIDE THE FOLLOWING:

- 1 DIGITAL HALL LANTERNS WITH ILLUMINATED FLOOR INDICATORS AND DIRECTIONAL ARROWS AND AUDIO ANNUNCIATORS WITH STAINLESS STEEL FINISH. LOCATE ON WALL NEXT TO DOORS 7'-4" A.F.F.
- 2 CALL STATIONS AT EACH LANDING WITH ILLUMINATED CALL BUTTONS WITH KEYS ACCESS AT TOP AND BOTTOM LEVELS WITH STAINLESS STEEL FINISH
- 3 PROVIDE SUFFICIENT SIZE S.S. PLATES W/ #4 BRUSHED FINISH TO COVER PREVIOUS OPENINGS AT CALL STATIONS + LANTERNS AS REQUIRED.
- 4 PROTECT FLOORS FROM CONSTRUCTION OPERATIONS. REPAIR WALL AND FLOOR SURFACES DAMAGED OR SOILED RESULTING FROM CONSTRUCTION OPERATIONS.
- 5 CLEAN, WIRE BRUSH, AND POLISH EXISTING HOISTWAY THRESHOLDS.
- 6 STAINLESS STEEL HOISTWAY DOORS WITH 50L FINISH WITH COMPLETE DOOR OPERATING HARDWARE
- 7 TACTICAL/BRILLE FLOOR NUMBER SIGNS ON EACH JAMB AT ALL HOISTWAY OPENINGS

ELEVATOR CAB: PROVIDE THE FOLLOWING:

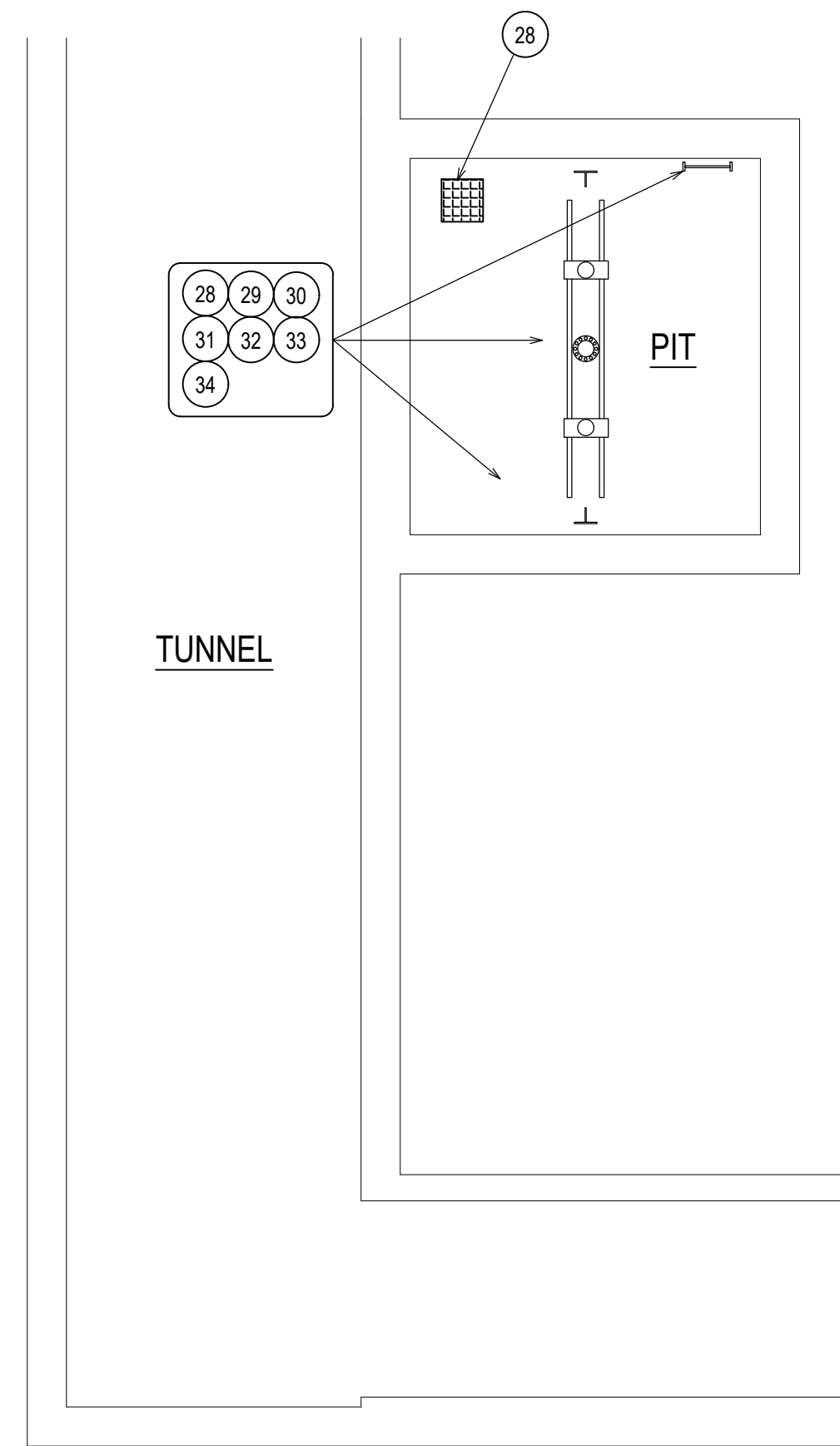
- 8 ELEVATOR PLATFORM TO REMAIN. CAB WALLS TO REMAIN EXCEPT FOR TEMPORARY WALL PANEL REMOVAL AS REQUIRED TO INSTALL NEW HAND RAILS, ILLUMINATED FLOOR INDICATORS, AND NEW MAIN AND AUXILIARY CAR OPERATING PANELS.
- 9 CLEAN, BUFF, AND POLISH EXISTING STAINLESS STEEL WALL PANELS, STAINLESS STEEL BASE, AND STAINLESS STEEL ACCENT PANELS AT WALLS.
- 10 ETCH AND PREP. EXISTING CONCRETE FLOOR SURFACE AND RESURFACE WITH EPOXY FLOOR FINISH WITH DECORATIVE CHIPS - COLOR SELECTED BY MSU PROJECT REP.
- 11 PREP STAINLESS STEEL CEILING AND FINISH WITH EPOXY PAINT WITH AN EGGSHELL SHEEN - COLOR: BENJAMIN MOORE "ATRIUM WHITE, GC-46". INSTALL NEW 2X4 RECESSED LED LIGHT FIXTURE WITH 3X4 CORE PARABOLIC DIFFUSER.
- 12 MAIN CAR OPERATING PANEL LOCATED WITH #4 STAINLESS STEEL FINISH LOCATED AT SAME LOCATION AS OBSOLETE COP. AUXILIARY CAR OPERATING PANEL WITH #4 STAINLESS STEEL FINISH LOCATED IN HANDRAIL OPPOSITE SIDE FROM THE MAIN COP.
- 13 8" WIDE S.S. CAB RAILINGS WITH #4 BRUSHED FINISH ON BOTH SIDE WALLS AND REAR CAB WALL AND FABRICATED TO ACCOMMODATE AUXILIARY CAR PANEL ON RAILING OPPOSITE THE WALL WHERE THE MAIN COP IS LOCATED. PROVIDE #4 - STAINLESS STEEL PLATES BEHIND NEW HANDRAILS OF SUFFICIENT HEIGHT AND WIDTH TO COVER OBSOLETE MOUNTING HOLES OF PREVIOUS HANDRAILS.
- 14 MAIN CAR OPERATING PANEL AND SECONDARY MAIN COP LOCATED AT THE SIDE WALLS OF CAB AT THE SAME LOCATION AS THE OBSOLETE MAIN COPS.
- 15 AUXILIARY CAR OPERATING PANEL LOCATED AT THE SIDE WALL OF CAB IN THE HANDRAIL OPPOSITE FROM THE MAIN COP.
- 16 STAINLESS STEEL FRONT WALL PANELS AND RETURNS WITH #4 BRUSHED FINISH. (BRUSHED GRAIN - VERTICAL)
- 17 STAINLESS STEEL CAB DOOR OF SAME DESIGN AS EXISTING OBSOLETE DOOR EXCEPT NEW DOORS TO HAVE 50L FINISH (VERTICAL PATTERN) COMPLETE WITH NEW DOOR OPERATING HARDWARE
- 18 TRAVELING CABLES AND CONNECTIONS CONNECTING CAR OPERATING PANELS AND ELEVATOR CONTROLLER.
- 19 NICKEL/ALUMINUM CAB DOOR THRESHOLDS
- 20 COMPLETE CAR TOP INSPECTION STATION
- 21 ROLLER GUIDES ALL LOCATIONS.

MACHINE ROOM: PROVIDE THE FOLLOWING:

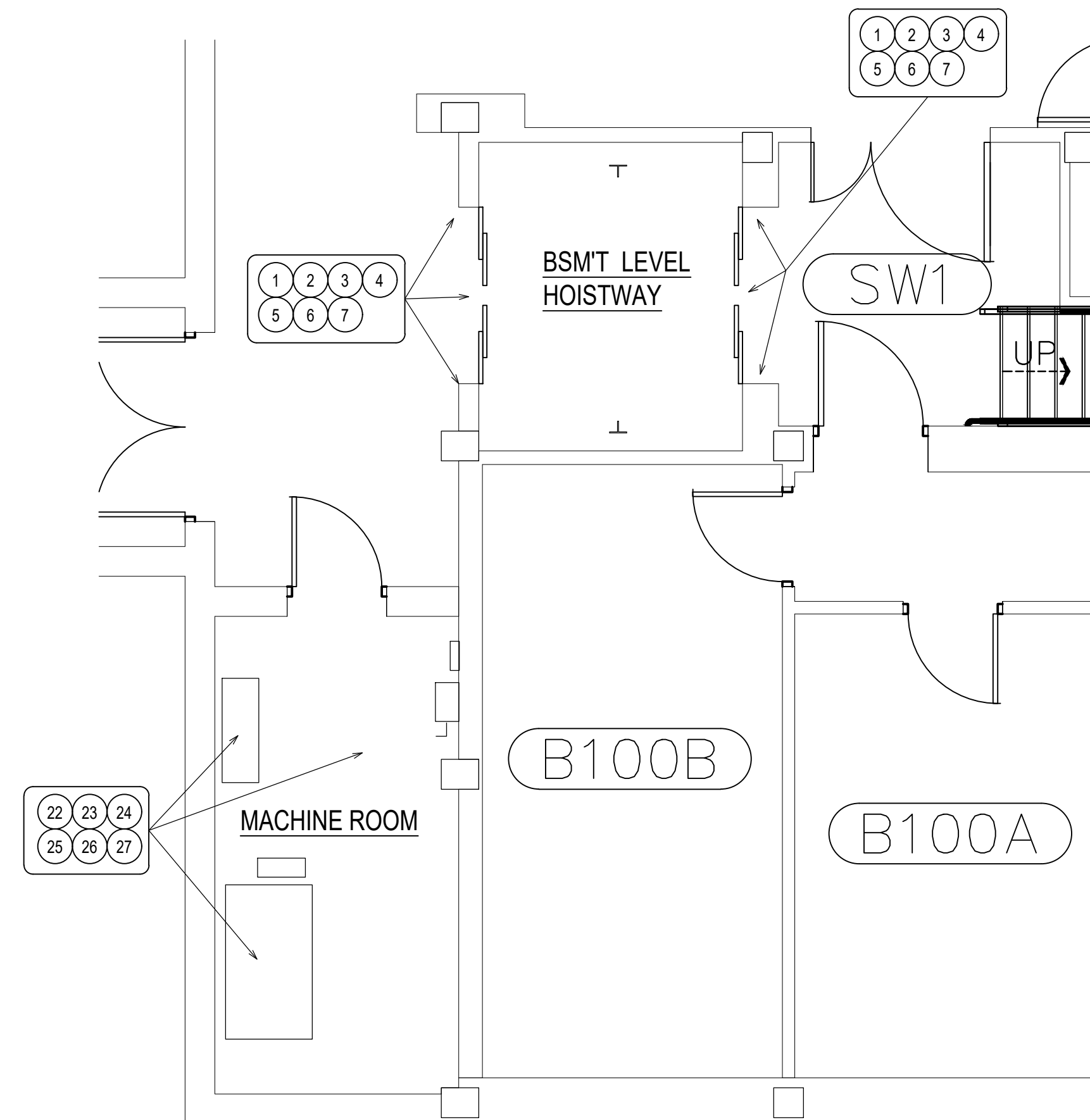
- 22 PROGRAMMABLE SOLID STATE HYDRAULIC ELEVATOR CONTROLLER AND PROGRAMMING FOR ELEVATOR OPERATION TO MEET REQUIREMENTS OF MICHIGAN ELEVATOR CODE AND MSU SPECIFICATION STANDARDS.
- 23 CABLES, CONDUITS, FITTINGS, ETC. FOR CONNECTING CONTROLLER TO PUMP AND CAR OPERATING PANELS.
- 24 HYDRAULIC ELEVATOR PUMP (CAPACITY AND ELECTRICAL CHARACTERISTICS TO BE SIMILAR TO EXISTING PUMP AND CAPABLE OF PROVIDING TRAVEL SPEED OF 125 FPM) PROVIDE NECESSARY ELECTRICAL AND PIPING MODIFICATIONS FOR CONNECTING PUMP AND CYLINDERS.
- 25 PREP AND PAINT MACHINE ROOM WALLS BENJAMIN MOORE PAINT COLOR "WINTER WHEAT #232)
- 26 PREP AND PAINT MACHINE ROOM FLOOR, STEPS, AND RISERS WITH BENJAMIN MOORE PAINT COLOR "DECK GRAY FF-11" -
- 27 PREP AND PAINT MACHINE ROOM DOOR AND FRAME (MACHINE ROOM SIDE ONLY) WITH BENJAMIN MOORE PAINT COLOR "WINTER WHEAT #232)

HOISTWAY AND PIT AREA: PROVIDE THE FOLLOWING:

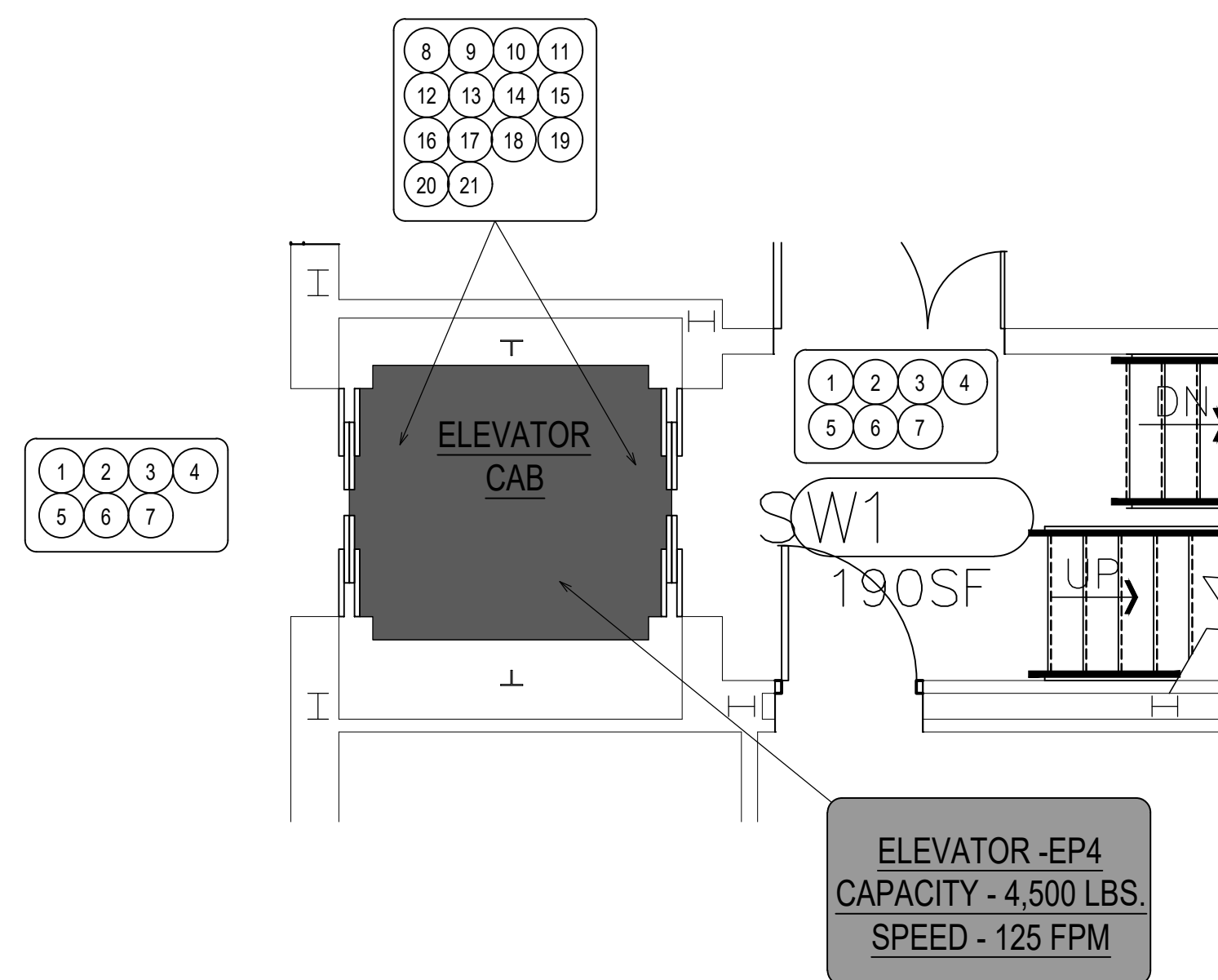
- 28 FORMED CONCRETE SUMP GALVANIZED STEEL GRATING, SUMP PUMP, PIPING, FITTINGS, FOR CONNECTION TO OIL SEPARATOR, SUMP PUMP INSTALLED BELOW GRATING - SEE MECHANICAL/ELECTRICAL DRAWINGS.
- 29 HYDRAULIC CYLINDER AT EACH HOISTWAY
- 30 INSPECT EXISTING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE BASE COST FOR CASING REPLACEMENT AS AN ALTERNATE COST IN BID.
- 31 PREP AND PAINT EXISTING STRUCTURAL STEEL SUPPORTS FOR HYDRAULIC JACK AND SPRING BUMPERS. MATCH EXISTING PAINT COLOR
- 32 CLEAN, PREP, AND PAINT ELEVATOR PIT FLOOR SHERWIN WILLIAMS COLOR "GRAY MATTERS - EXISTING" PREP PIT WALLS UP TO THE FIRST FLOOR LINE AND TOUCH UP PAINT WITH COLOR AND SHEEN TO MATCH EXISTING PAINTED PIT WALLS. PAINT WALLS UP TO THE FIRST FLOOR LINE.
- 33 CHECK GUIDE RAILS FOR STRAIGHT AND UNIFORMLY VERTICAL ALIGNMENT. ADJUST AS NECESSARY TO ALIGN RAILS.
- 34 REMOVE RUST, PREP AND PAINT EXISTING LADDER AND REINSTALL AT ORIGINAL LOCATION



**NEW ELEVATOR EP4  
SUB-BASEMENT LEVEL**  
1/4"=1'-0"

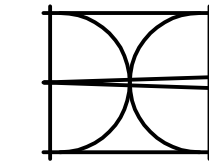


**NEW ELEVATOR EP4  
BASEMENT LEVEL**  
1/4"=1'-0"



**NEW ELEVATOR EP4  
FIRST FLOOR LEVEL**  
1/4"=1'-0"

ELEVATOR -EP4  
CAPACITY - 4,500 LBS.  
SPEED - 125 FPM



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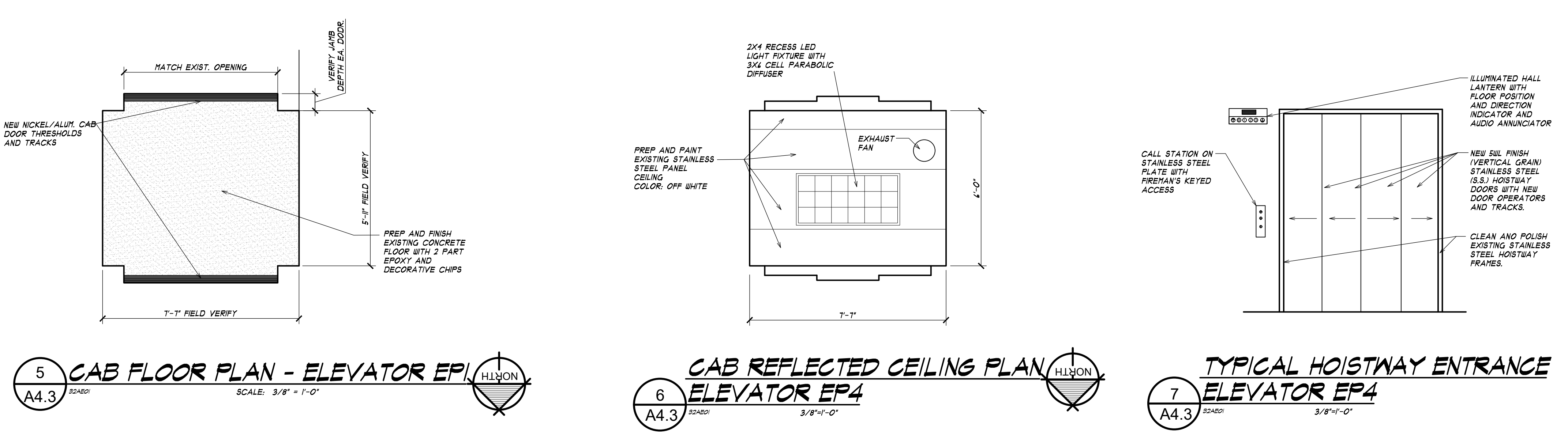
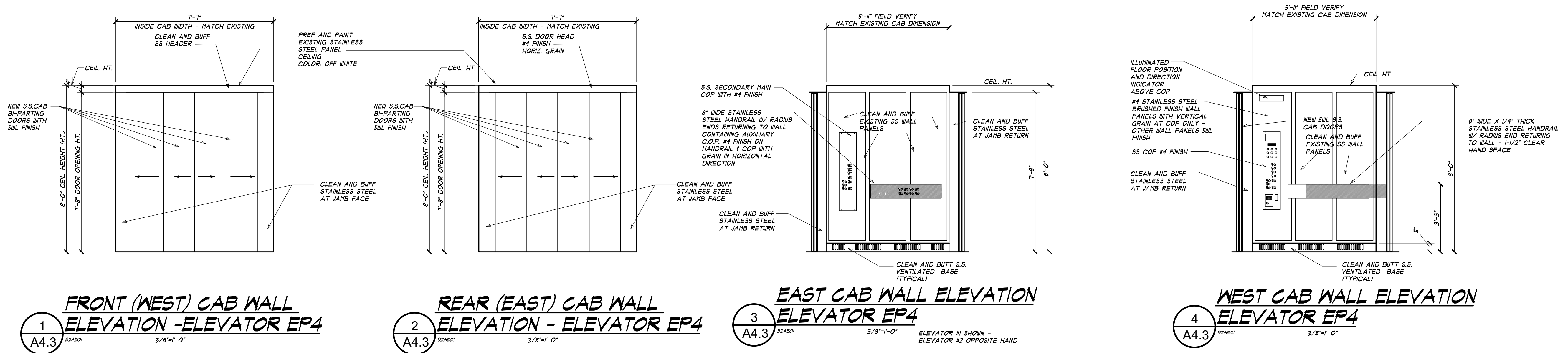
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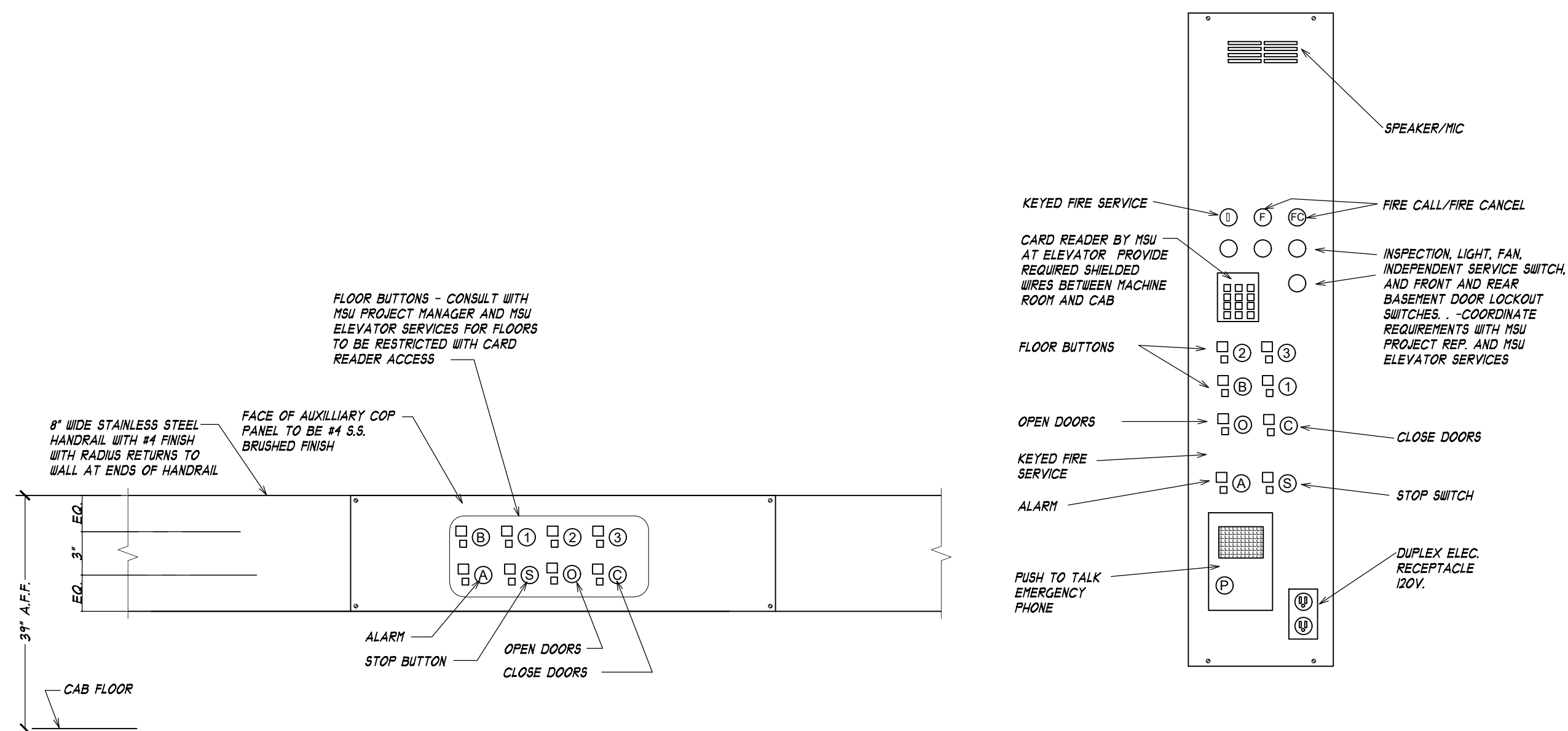
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SCALE AS NOTED  
REVISIONS

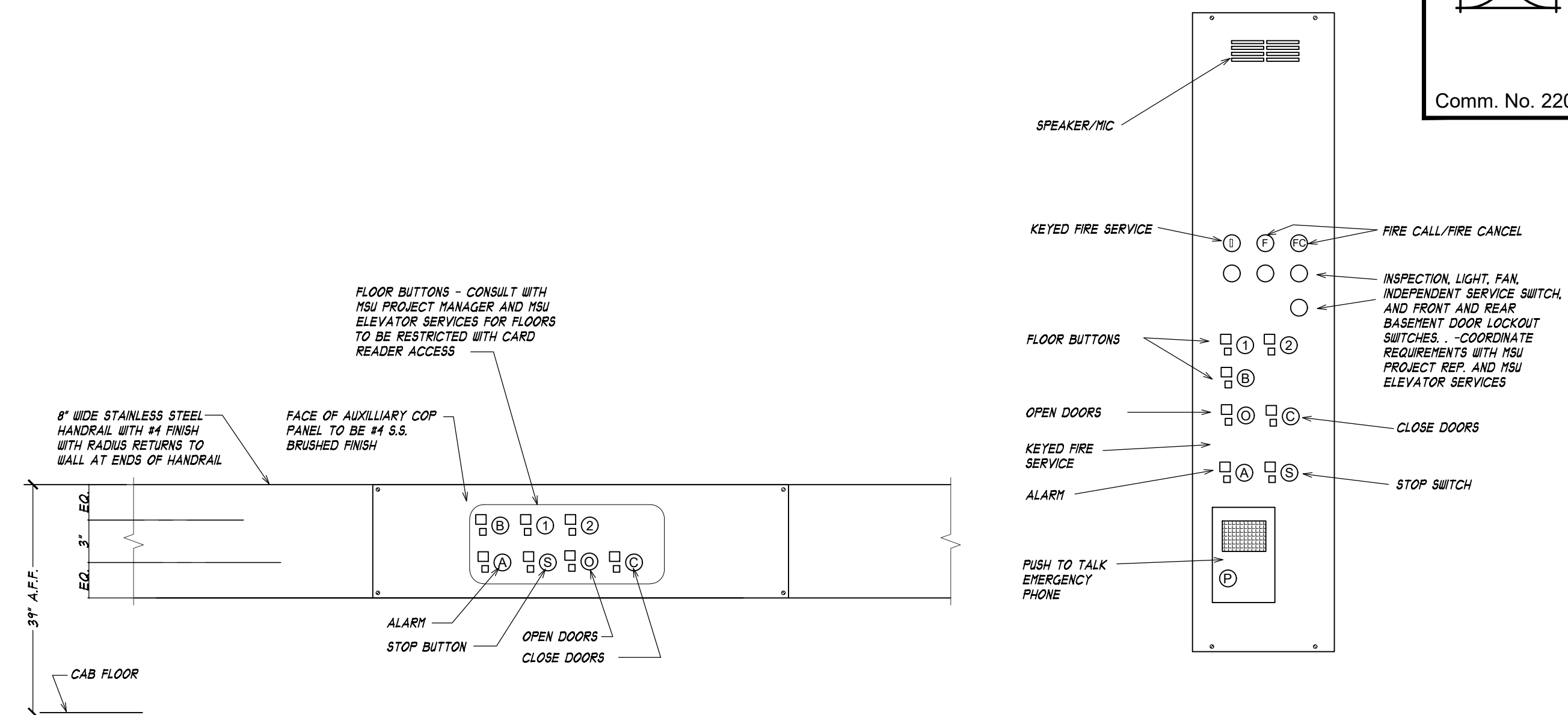
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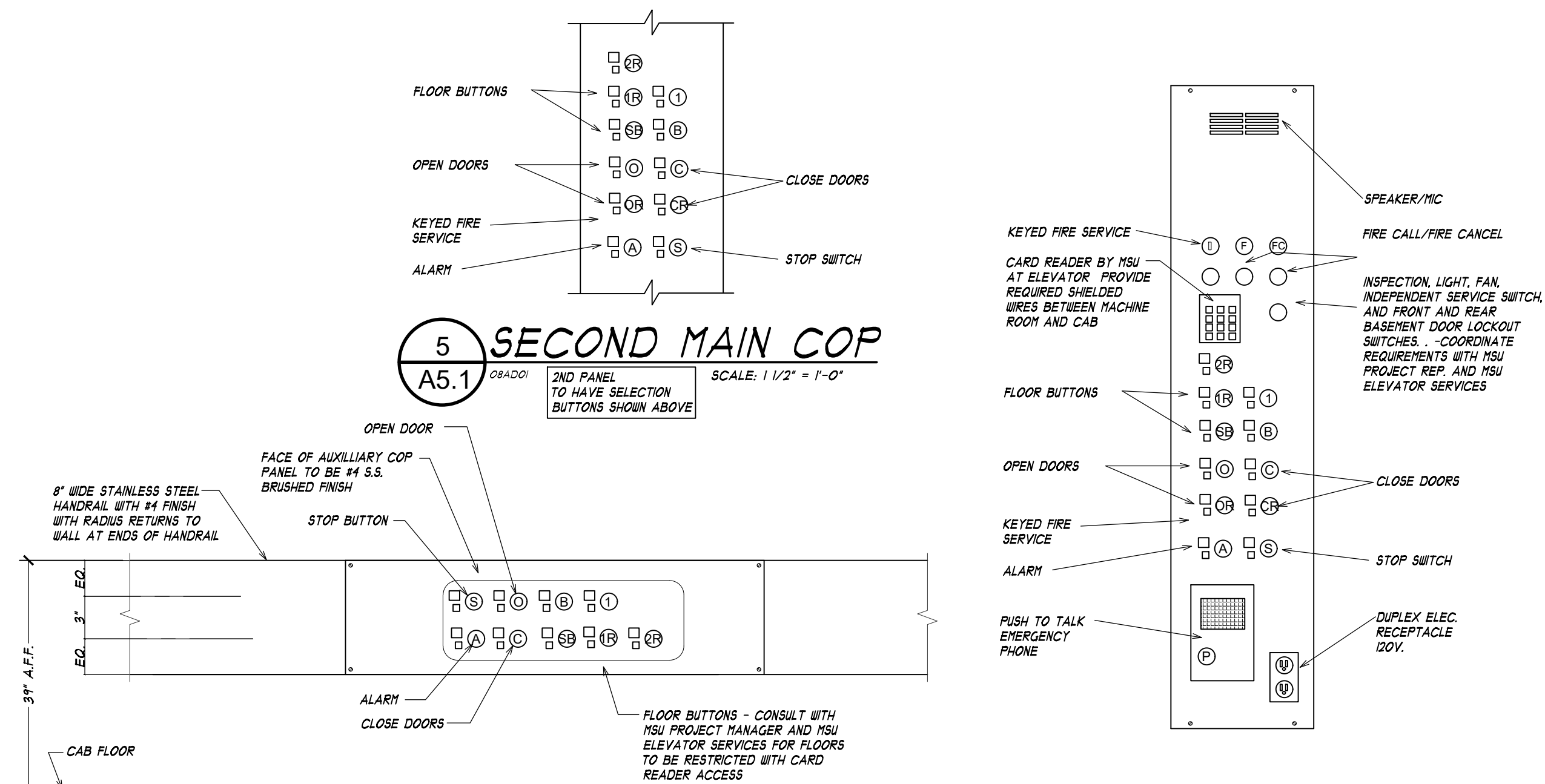




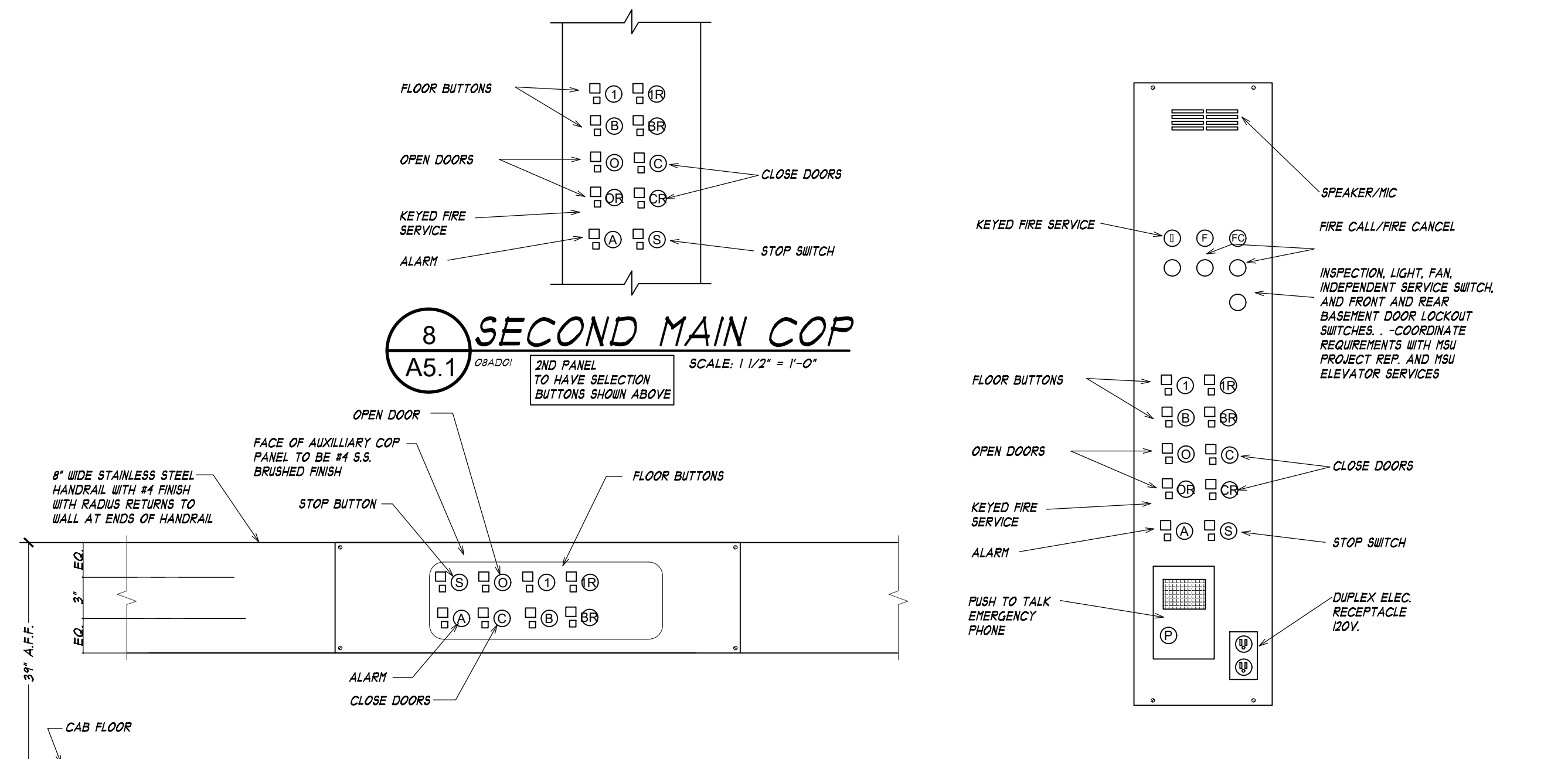
ELEVATOR - EP1



ELEVATOR - EP2



ELEVATOR - EP3



ELEVATOR - EP4

**1 BARRIER-FREE AUXILIARY CONTROL PANEL**

SCALE: 1 1/2" = 1'-0"

- NOTES:  
1. SEE CAB ELEVATIONS FOR CONTROL PANEL LOCATION.  
2. VERIFY BUTTON LAYOUT WITH MSU CONSTRUCTION REPRESENTATIVE FROM MSU ELEVATOR SERVICES - SUBMIT SHOP DRAWINGS WITH FINAL LAYOUT.

**2 MAIN CAR OPERATING PANEL**

SCALE: 1 1/2" = 1'-0"

- NOTES:  
1. SEE CAB ELEVATIONS FOR CONTROL PANEL LOCATION.  
2. VERIFY BUTTON LAYOUT WITH MSU CONSTRUCTION REPRESENTATIVE FROM MSU ELEVATOR SERVICES - SUBMIT SHOP DRAWING WITH FINAL LAYOUT.  
3. THIS ELEVATOR TO BE EQUIPPED WITH CARD READER.

**3 BARRIER-FREE AUXILIARY CONTROL PANEL**

SCALE: 1 1/2" = 1'-0"

- NOTES:  
1. SEE CAB ELEVATIONS FOR CONTROL PANEL LOCATION.  
2. VERIFY BUTTON LAYOUT WITH MSU CONSTRUCTION REPRESENTATIVE FROM MSU ELEVATOR SERVICES - SUBMIT SHOP DRAWINGS WITH FINAL LAYOUT.

**4 MAIN CAR OPERATING PANEL**

SCALE: 1 1/2" = 1'-0"

- NOTES:  
1. SEE CAB ELEVATIONS FOR CONTROL PANEL LOCATION.  
2. VERIFY BUTTON LAYOUT WITH MSU CONSTRUCTION REPRESENTATIVE FROM MSU ELEVATOR SERVICES - SUBMIT SHOP DRAWING WITH FINAL LAYOUT.

**5 SECOND MAIN COP**

SCALE: 1 1/2" = 1'-0"

2ND PANEL TO HAVE SELECTION BUTTONS SHOWN ABOVE

**8 SECOND MAIN COP**

SCALE: 1 1/2" = 1'-0"

2ND PANEL TO HAVE SELECTION BUTTONS SHOWN ABOVE

**6 BARRIER-FREE AUXILIARY CONTROL PANEL**

SCALE: 1 1/2" = 1'-0"

- NOTES:  
1. SEE CAB ELEVATIONS FOR CONTROL PANEL LOCATION.  
2. VERIFY BUTTON LAYOUT WITH MSU CONSTRUCTION REPRESENTATIVE FROM MSU ELEVATOR SERVICES - SUBMIT SHOP DRAWINGS WITH FINAL LAYOUT.

**7 MAIN CAR OPERATING PANEL (2 MAIN COP'S REQ.)**

SCALE: 1 1/2" = 1'-0"

- NOTES:  
1. SEE CAB ELEVATIONS FOR CONTROL PANEL LOCATION.  
2. VERIFY BUTTON LAYOUT WITH MSU CONSTRUCTION REPRESENTATIVE FROM MSU ELEVATOR SERVICES - SUBMIT SHOP DRAWING WITH FINAL LAYOUT.  
3. THIS ELEVATOR TO BE EQUIPPED WITH CARD READER.

**9 BARRIER-FREE AUXILIARY CONTROL PANEL**

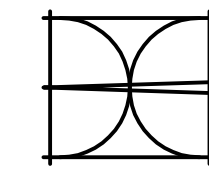
SCALE: 1 1/2" = 1'-0"

- NOTES:  
1. SEE CAB ELEVATIONS FOR CONTROL PANEL LOCATION.  
2. VERIFY BUTTON LAYOUT WITH MSU CONSTRUCTION REPRESENTATIVE FROM MSU ELEVATOR SERVICES - SUBMIT SHOP DRAWINGS WITH FINAL LAYOUT.

**10 MAIN CAR OPERATING PANEL (2 MAIN COP'S REQ.)**

SCALE: 1 1/2" = 1'-0"

- NOTES:  
1. SEE CAB ELEVATIONS FOR CONTROL PANEL LOCATION.  
2. VERIFY BUTTON LAYOUT WITH MSU CONSTRUCTION REPRESENTATIVE FROM MSU ELEVATOR SERVICES - SUBMIT SHOP DRAWING WITH FINAL LAYOUT.  
3. THIS ELEVATOR TO BE EQUIPPED WITH CARD READER.

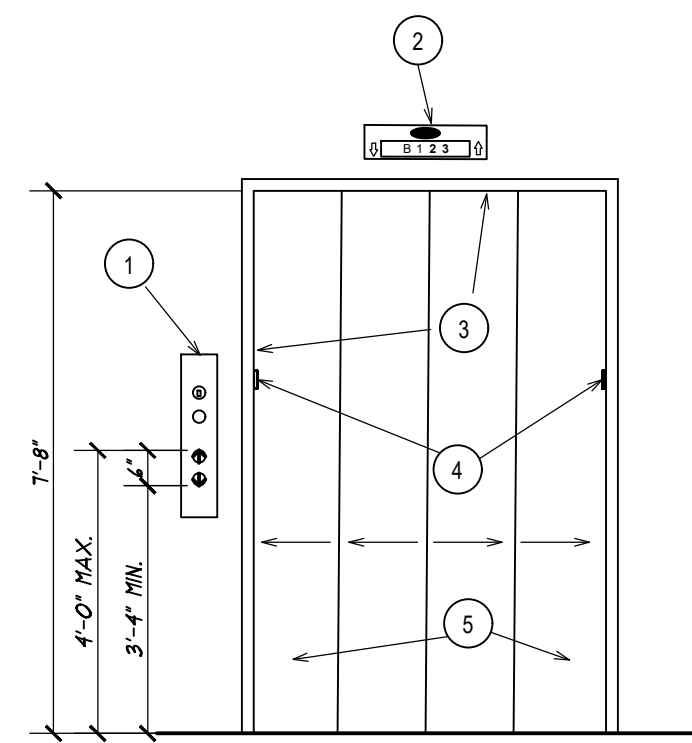


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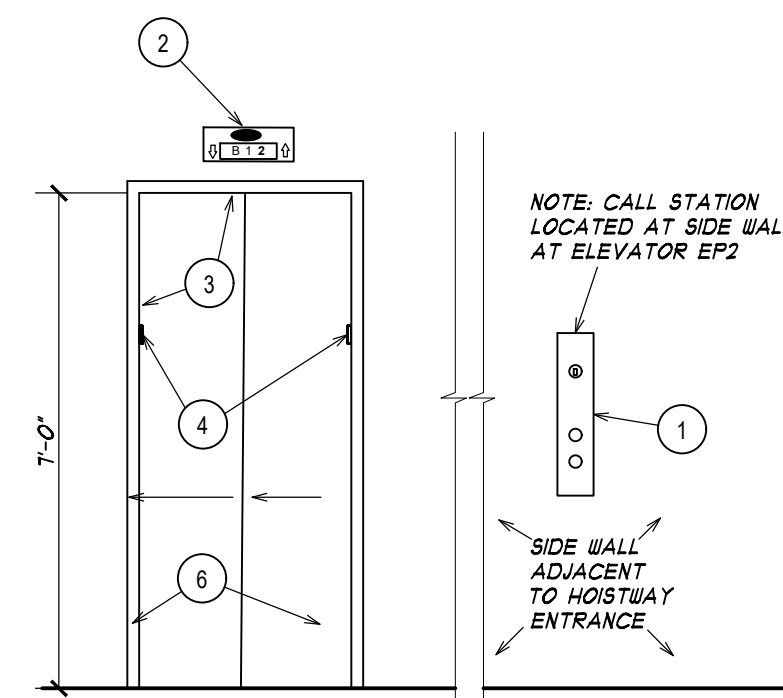


**ELEVATOR EP1**

TYPICAL AT (4) STOPS:  
BASEMENT, 1st FL., 2nd FL., 1 3rd FL.

**HOISTWAY ENTRANCE REMODEL  
ELEVATION - ELEVATOR EP1**

3/24/2021 3/8"=1'-0"

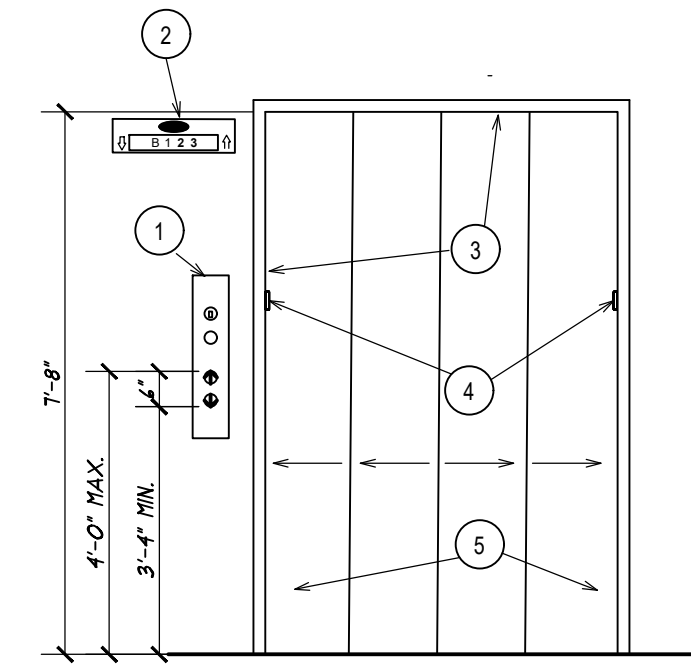


**ELEVATOR EP2**

TYPICAL AT (3) STOPS:  
BASEMENT, 1st FL., 1 2nd FL.

**HOISTWAY ENTRANCE REMODEL  
ELEVATION - ELEVATOR EP2**

3/24/2021 3/8"=1'-0"

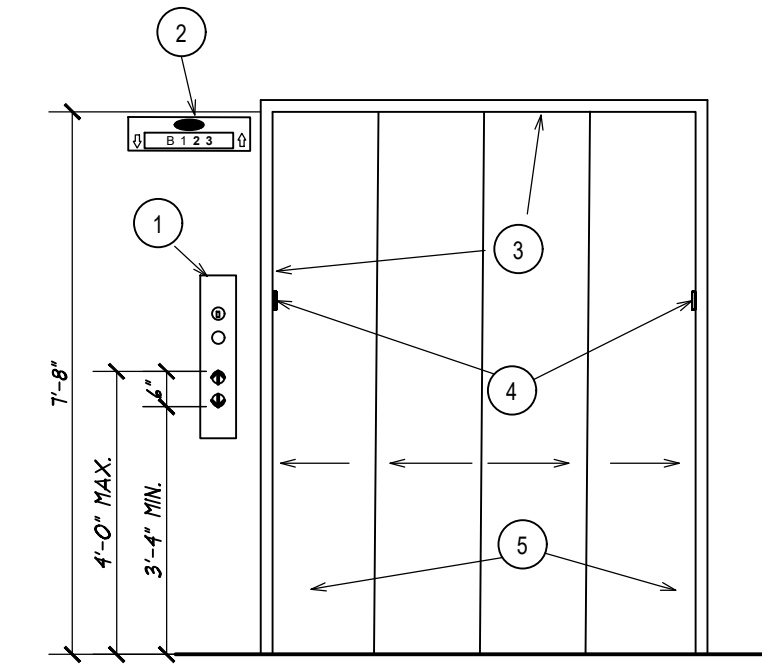


**ELEVATOR EP3**

TYPICAL AT (5) STOPS:  
SUB-BASEMENT, BASEMENT, 1st FL., 1st FL. REAR, AND 2nd FL.

**HOISTWAY ENTRANCE REMODEL  
ELEVATION - ELEVATOR EP3**

3/24/2021 3/8"=1'-0"



**ELEVATOR EP4**

TYPICAL AT (4) STOPS:  
BASEMENT, BASEMENT REAR, 1st FL., 1 1st FL. REAR

**HOISTWAY ENTRANCE REMODEL  
ELEVATION - ELEVATOR EP4**

3/24/2021 3/8"=1'-0"

**FINISH REQUIREMENTS**

- PRIOR TO PAINTING OPERATIONS, CLEAN DUST, GREASE, AND DIRT FROM ALL SURFACES.
- PREP, PRIME, AND APPLY (2) COATS OF PAINT TO THE FOLLOWING SURFACES WITHIN THE HOISTWAY:
  - ELEVATOR PIT FLOOR COLOR: "SW7046-GRAY MATTERS"
  - HOISTWAY WALLS FROM PIT FLOOR TO GROUND FLOOR LEVEL ABOVE PIT FLOOR COLOR: "SW7046-GRAY MATTERS"
  - GUIDE RAILS PIT FL. LINE TO GROUND FLOOR LEVEL COLOR: "SW7046-GRAY MATTERS"
  - ELEVATOR PIT LADDER COLOR: "SAFETY YELLOW"
  - COUNTERWEIGHT SHIELDS COLOR: "SW7046-GRAY MATTERS"
  - BUFFERS AND STEEL SUPPORT COLOR: "MATCH EXISTING"
- PREP, PRIME, AND APPLY (2) COATS OF PAINT TO THE FOLLOWING MACHINE ROOM SURFACES:
  - ALL NEW MACHINE MOTORS & FRAMES, AND GOVERNORS (IF MOTORS HAVE "FACTORY FINISH" - DO NOT PAINT) COLOR: "SW7046-GRAY MATTERS"
  - MACHINE ROOM FLOOR COLOR: "SW7046-GRAY MATTERS"
  - H.M. DOOR AND FRAME COLOR: "B/M 232-WINTER WHEAT"
  - ALL WALLS COLOR: "B/M 232-WINTER WHEAT"
  - EXISTING CEILINGS & JOISTS TO REMAIN AS IS
- CAB FLOOR FINISHES: (VERIFY ALL CAB FINISHES WITH MSU ELEVATOR SERVICES PRIOR TO ORDERING)
  - ELEVATOR EP1 CLEAN AND BUFF EXISTING ALUM CHECKER PLATE
  - ELEVATOR EP2 SHEET VINYL DETERMENT BY MSU
  - ELEVATOR EP3 NEW ALUM. CHECKER PLATE
  - ELEVATOR EP4 2 PART EPOXY W/ CHIPS ON EX. CONC.

**GENERAL NOTES**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE MSU PROJECT REPRESENTATIVE.
- CAB DIMENSIONS ARE FROM FACE OF PRIMARY STAINLESS STEELWALL SURFACE TO FACE OF PRIMARY STAINLESS STEEL WALL SURFACE IN THE ELEVATOR CAB.
- FIELD VERIFY SIZES OF EXISTING CAR PLATFORMS. NEW CAR PLATFORMS TO BE SIZED TO FIT THE SPECIFIED CAB DIMENSIONS AND CAPACITY SPECIFIED UTILIZING EXISTING GUIDE RAILS. MAINTAIN EXISTING INTERIOR CAB DIMENSIONS.
- WHERE NEW WORK AFFECTS EXISTING CONSTRUCTION, PATCH AND PAINT AS REQUIRED TO PROVIDE AN ACCEPTABLE TRANSITION BETWEEN THE EXISTING AND NEW CONSTRUCTION. PAINT COLOR OF PATCHED AREAS SHALL MATCH EXISTING PAINT COLOR.
- CONTRACTOR SHALL INSPECT HOISTWAY WALLS AND REPAIR ANY VOIDS OR HOLES IN WALLS. ALL NEW HOLES MADE IN EXISTING HOISTWAY WALLS ARE ALSO TO BE FILLED, FULL DEPTH OF WALL. NON-COMPLIANT EXISTING EXPOSED LEDGES IN HOISTWAYS ARE TO BE BEVELED (WHICH ARE NOT CURRENTLY BEVELED) WITH SHEET METAL AT PROPER ANGLE, AS REQUIRED BY THE STATE OF MICHIGAN ELEVATOR CODE RULES.
- CONTRACTOR SHALL PROVIDE PROTECTION OF EXISTING BUILDING COMPONENTS DURING STORAGE OR TRANSPORTATION OF ELEVATOR EQUIPMENT TO FINAL LOCATION, AND OF ANY MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR WILL BEAR ALL COSTS TO REPAIR ANY DAMAGE CAUSED TO ROOF OR BUILDING DURING CONSTRUCTION OPERATIONS.
- ALL NEW ELEVATOR WORK TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE OF MICHIGAN ELEVATOR CODE RULES, ASME/ANSI A17.1 - SAFETY CODE FOR ELEVATORS AND ESCALATORS, AND ALSO IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
- ALL PIPES RUNNING THRU MASONRY WALLS OR FLOORS TO BE SLEEVED AND FIRE PROTECTED.
- CONTRACTOR SHALL INSPECT HOISTWAY AND PROVIDE SHEET METAL ENCLOSURE OVER ANY EXISTING PIPES OR CONDUITS NOT RELATED TO ELEVATOR OPERATIONS.

KEY NOTES REMODELED HOISTWAY ENTRANCES	
1	REMOVE EXISTING CALL STATIONS AND INSTALL NEW STAINLESS STEEL CALL STATION WITH #4 FINISH - SIZE TO COVER EXISTING OPENING IN WALL. PROVIDE ILLUMINATED CALL BUTTONS AND KEYED FIRE ACCESS AS REQUIRED BY ELEVATOR CODE - EXACT LOCATIONS VARY
2	REMOVE EXISTING HALL LANTERNS AT EP2 AND INSTALL NEW HALL LANTERNS AT ALL STOPS ON EPI, EP2, EP3, AND EP4 WITH ILLUMINATED FLOOR INDICATORS, ILLUMINATED DIRECTION ARROWS AND AUDIO ENUNCIATORS TO SIGNAL CAB ARRIVAL MOUNTED ON STAINLESS STEEL PLATES
3	EXISTING STAINLESS STEEL HOISTWAY DOOR FRAMES TO REMAIN. CLEAN AND BUFF.
4	REMOVE EXISTING FLOOR NUMBERS AT DOOR JAMBS AND INSTALL NEW RAISED CHARACTER FLOOR NUMBERS WITH BRASS AT EA. JAMB EA. LANDING
5	REMOVE EXISTING HOISTWAY DOORS, OPERATING HARDWARE, AND TRACKS AND INSTALL NEW S.S. HOISTWAY DOORS WITH NEW COMPLETE NEW OPERATING HARDWARE
6	REMOVE ALL EXISTING HOISTWAY DOORS AND DOOR OPERATORS AT ALL LEVELS. INSTALL NEW DOOR OPERATING HARDWARE AND TRACKS. PREP AND PAINT EXISTING HOISTWAY DOORS AND REINSTALL. PAINT COLOR TO MATCH ADJACENT WALL COLOR.

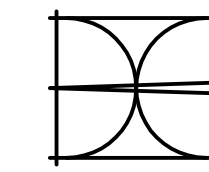
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MECH.	S. George
ELEC.	K. Howard
CIVIL	
L.A.	
INT. DES.	
CONST REP	T. Pacifico
APPR.	J. Bonk
DATE	9/27/2023

SCALE AS NOTED  
REVISIONS

RELEASED FOR BIDS

**A5.2**

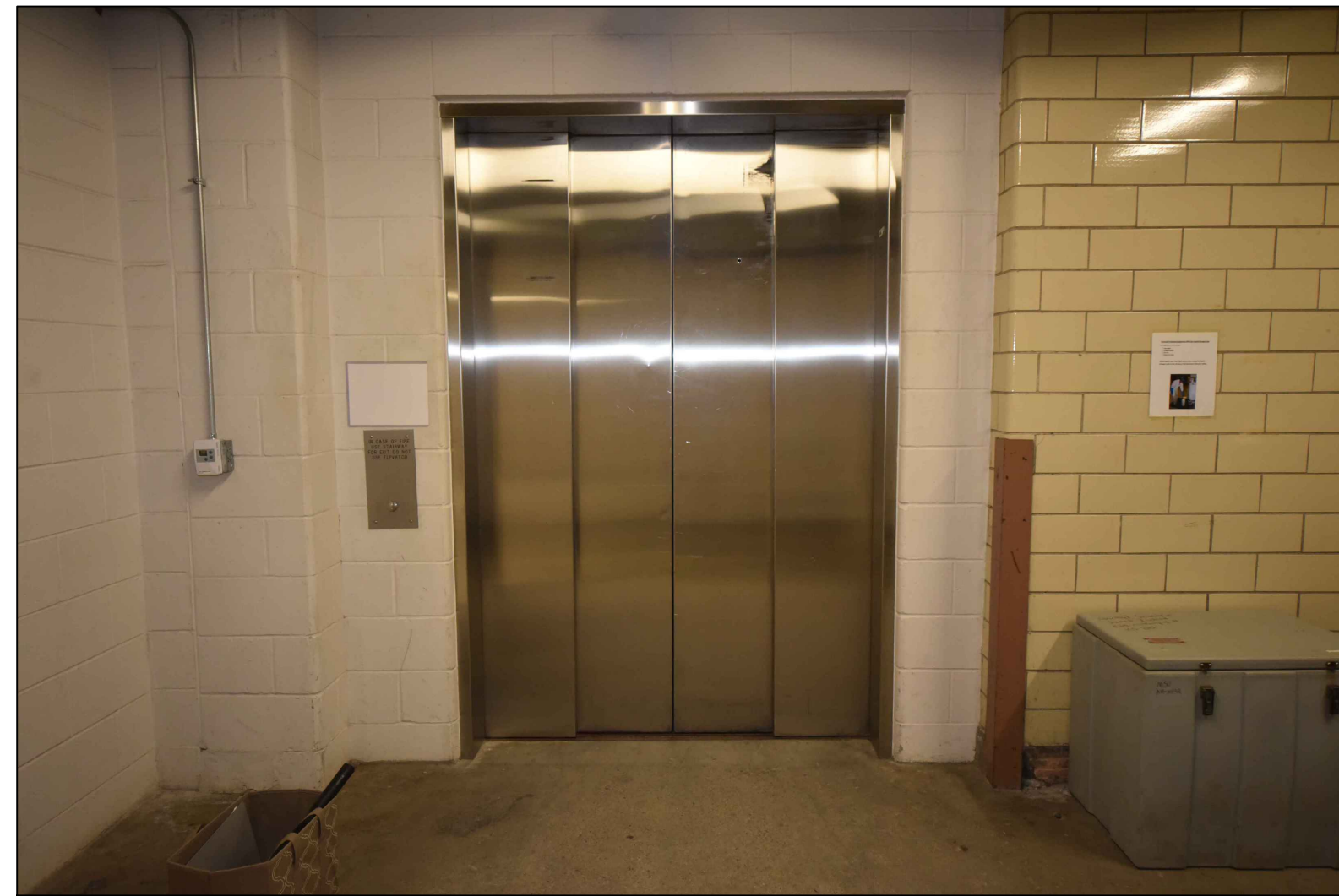


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MICHIGAN STATE  
UNIVERSITY

ANTHONY HALL  
REPLACE ELEVATORS 1, 2, 3, and 4



1  
A5.1  
TYPICAL EXISTING HOISTWAY  
OPENING AT ELEVATOR EPI  
NO SCALE



2  
A5.1  
EXISTING MACHINE ROOM  
AT ELEVATOR EPI  
NO SCALE



3  
A5.1  
ELVTR. EPI STEEL FRAMING FOR ELEVATED JACK  
AND BUMPERS WITH SLING AND FLOOR FRAMING  
NO SCALE



4  
A5.1  
EXISTING ENTRANCE TO MACHINE ROOM  
AND PIT AT SUB-BSMT. - ELEVATOR EPI  
NO SCALE



4  
A5.1  
EXISTING STEEL FRAMING FOR ELEVATED JACK  
AND BUMPERS AT PIT FLOOR - ELEVATOR EPI  
NO SCALE

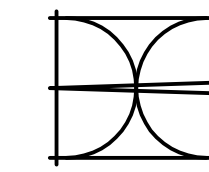
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A6.1





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REPLACE ELEVATORS 1, 2, 3, and 4

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LEAD ARCH.	T. Pacifico
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SCALE	AS NOTED
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**A6.2**



**1**  
A5.2  
*TYPICAL EXISTING HOISTWAY  
OPENING AT ELEVATOR EP2*  
NO SCALE



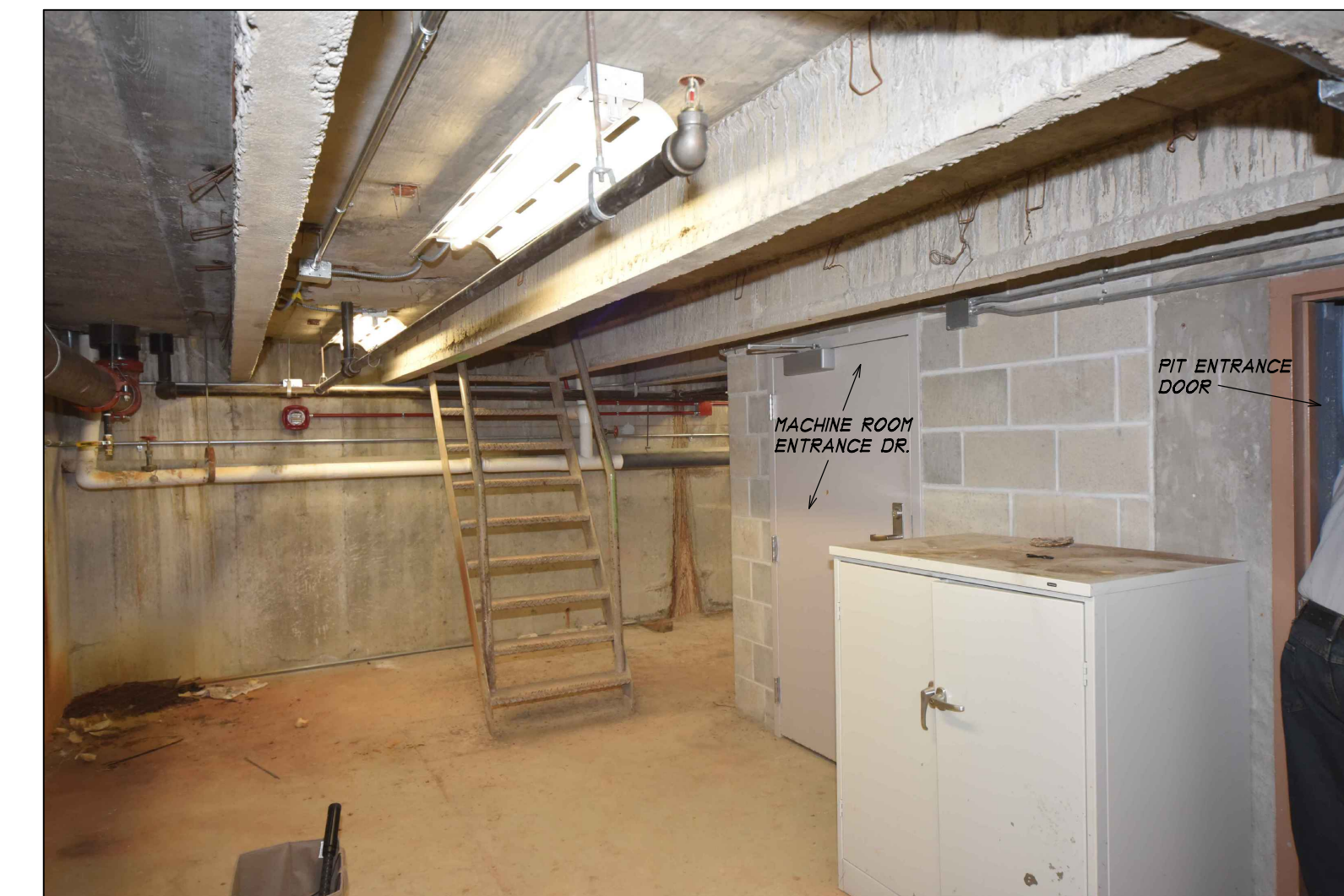
**2**  
A5.2  
*EXISTING MACHINE ROOM  
AT ELEVATOR EP2*  
NO SCALE



**3**  
A5.2  
*ELVTR. EP2 STEEL FRAMING FOR ELEVATED  
JACK AND BUMPERS AT PIT*  
NO SCALE



**4**  
A5.1  
*EXISTING HOISTWAY  
AT ELEVATOR EP2*  
NO SCALE



**5**  
A5.2  
*SUB-BASEMENT LEVEL ACCESS TO  
MACHINE RM. AND PIT - LEVATOR EP2*  
NO SCALE



1  
A5.3  
TYPICAL EXISTING HOISTWAY  
OPENING AT ELEVATOR EP3  
NO SCALE



2  
A5.3  
ELVTR. EP3 PIT AREA  
JACK AND BUMPERS  
NO SCALE



3  
A5.3  
EXISTING MACHINE ROOM  
AT ELEVATOR EP3  
NO SCALE



5  
A5.3  
SUB-BASEMENT LEVEL ACCESS TO  
MACHINE RM. AND PIT - LEVATOR EP3  
NO SCALE



4  
A5.3  
EXISTING MACHINE ROOM  
AT ELEVATOR EP3  
NO SCALE

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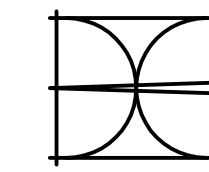
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A6.3



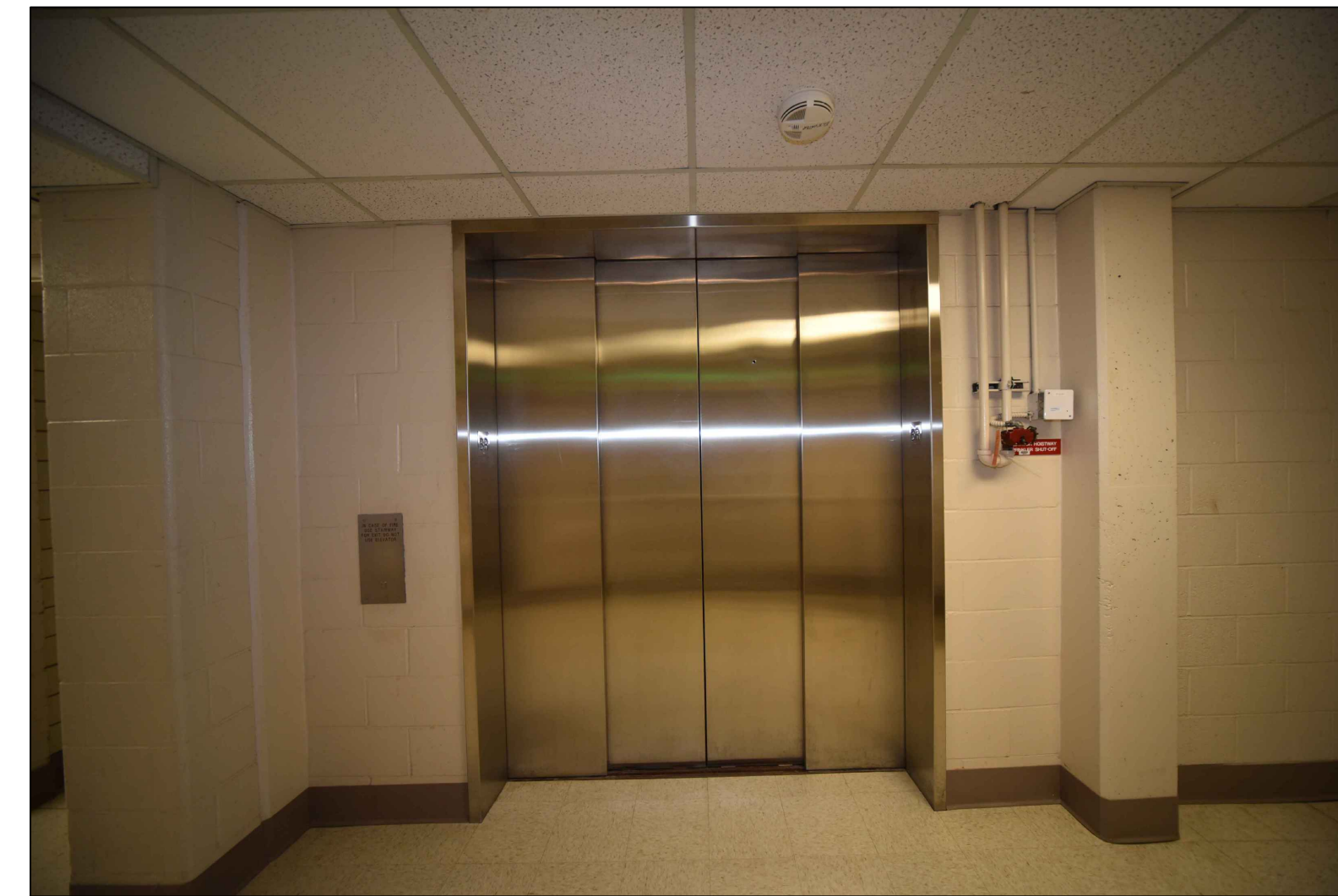
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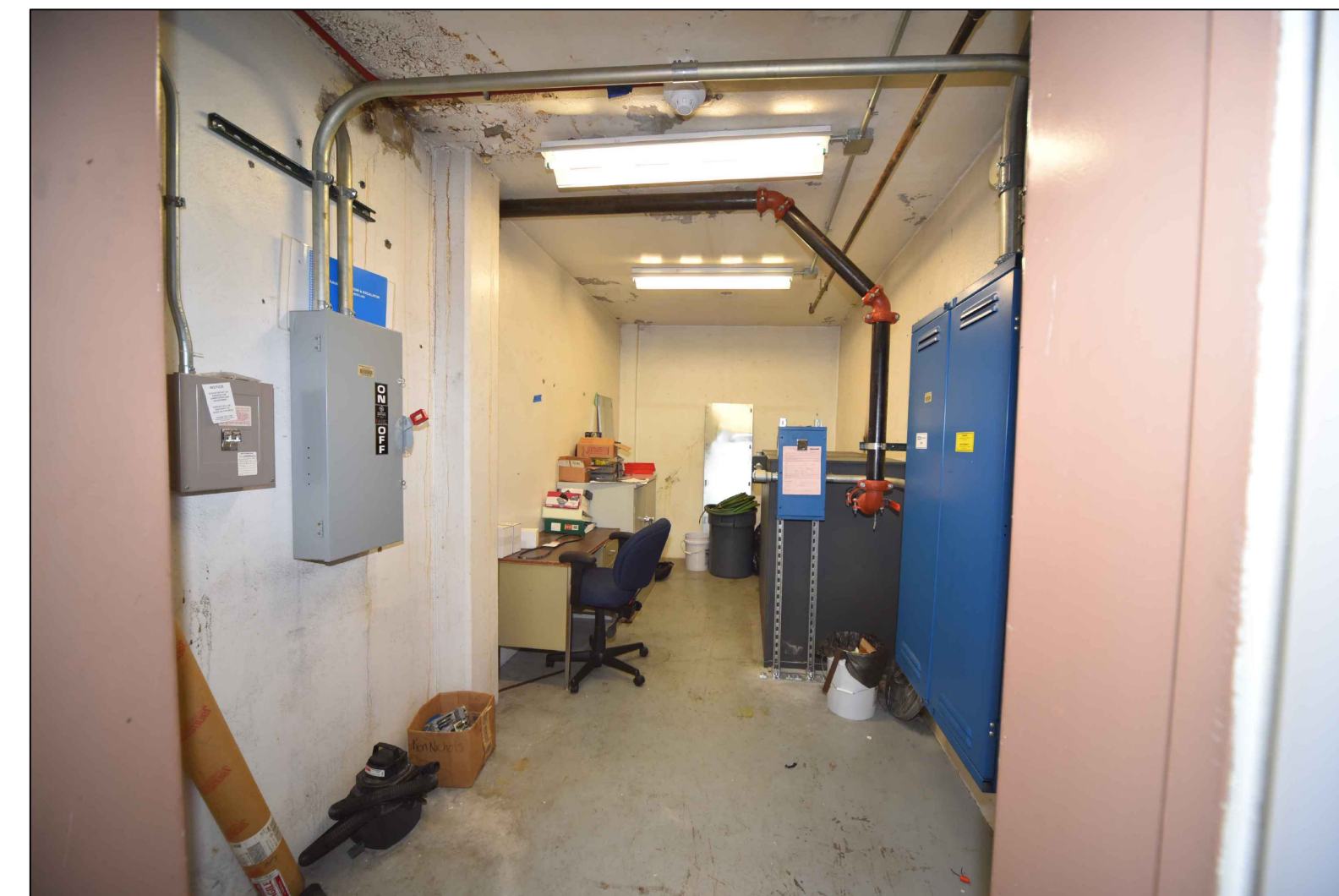
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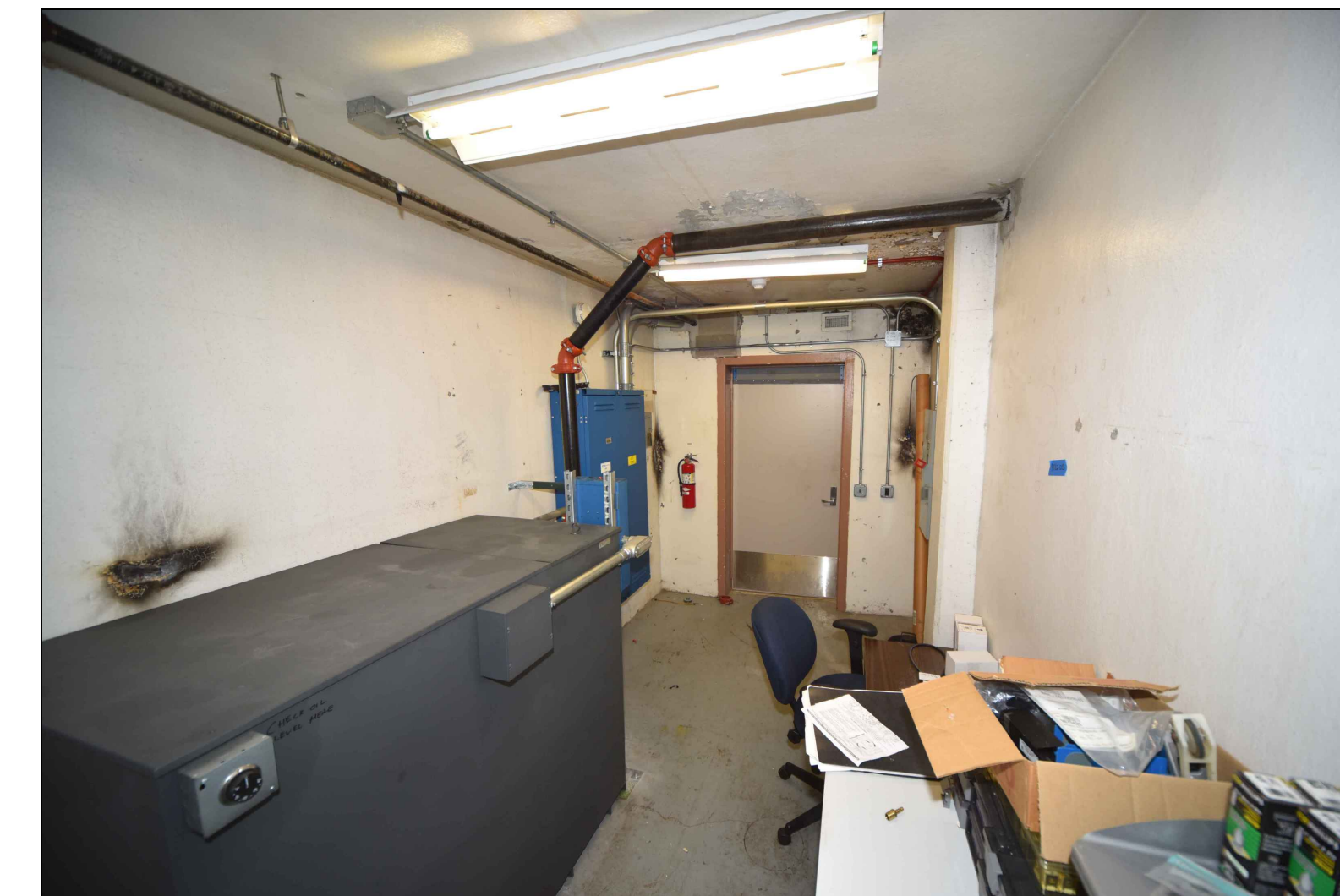
1  
A5.4  
TYPICAL EXISTING HOISTWAY  
OPENING AT ELEVATOR EP4  
NO SCALE



2  
A5.4  
EXISTING PIT, JACK, AND  
BUMPERS AT ELEVATOR EP4  
NO SCALE



3  
A5.4  
EXISTING MACHINE ROOM  
AT ELEVATOR EP4  
NO SCALE



4  
A5.4  
EXISTING MACHINE ROOM  
AT ELEVATOR EP4  
NO SCALE

CAPITAL PROJ. NO.  
GP23041

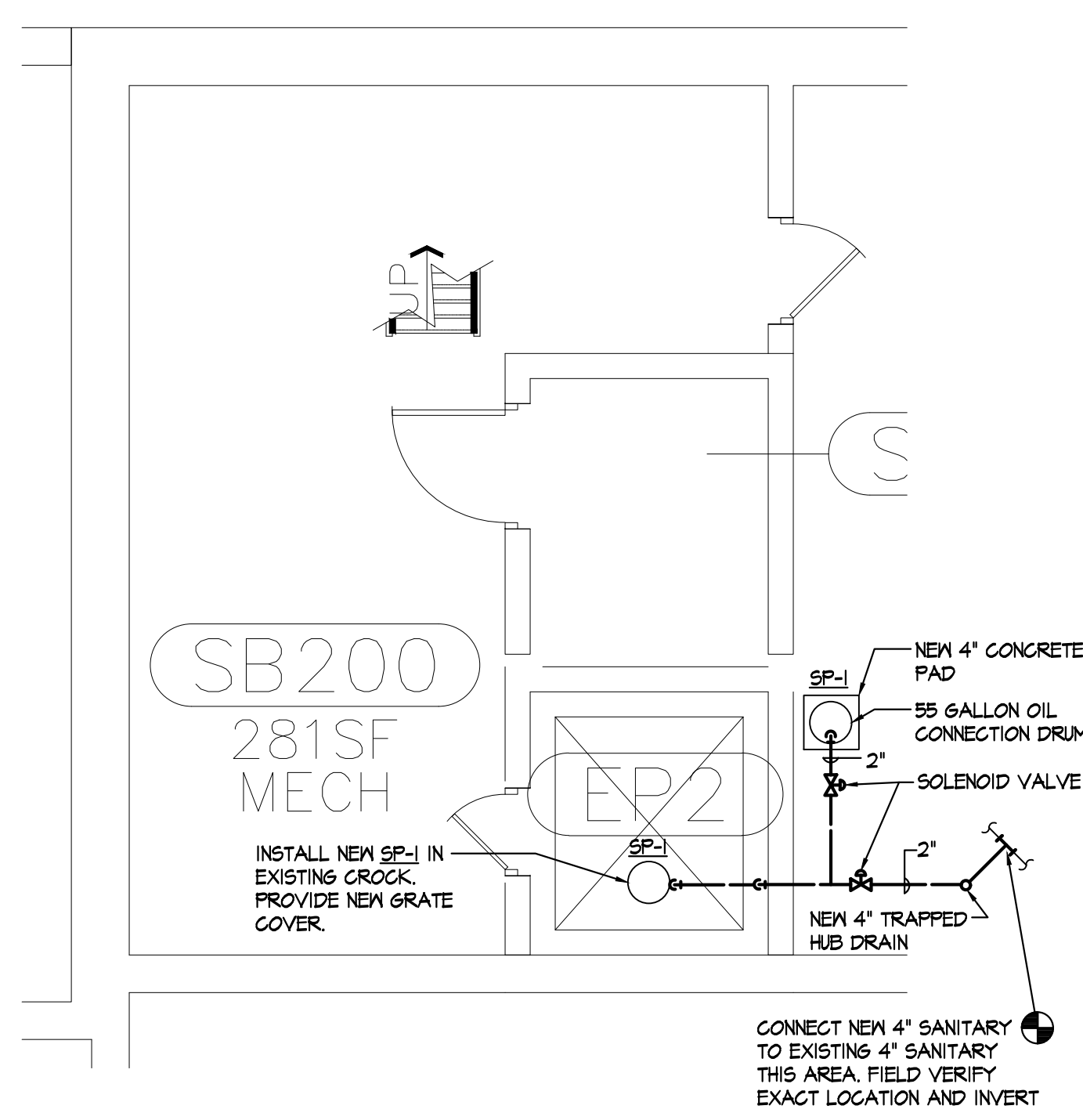
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SCALE AS NOTED

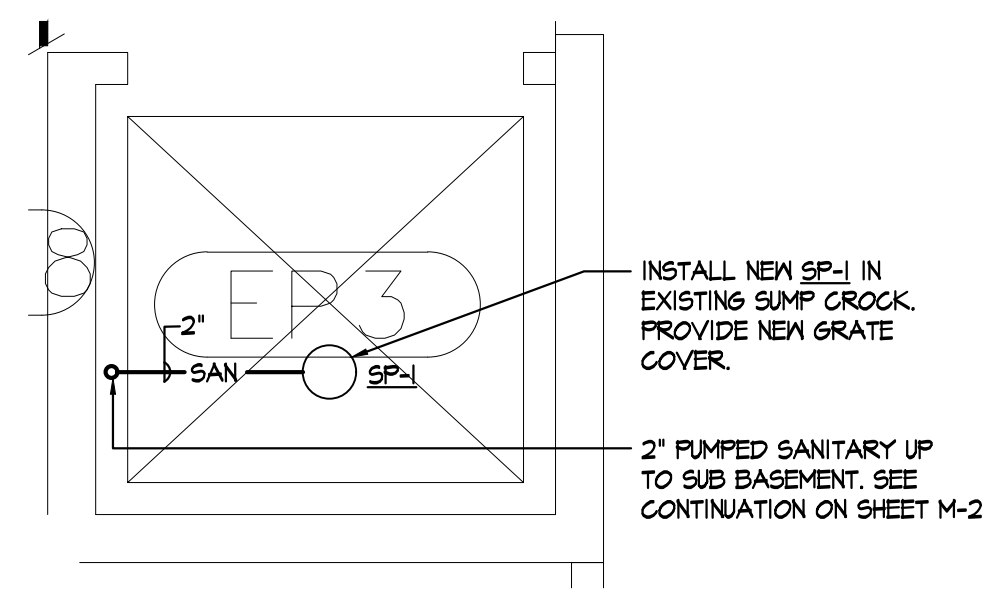
REVISIONS

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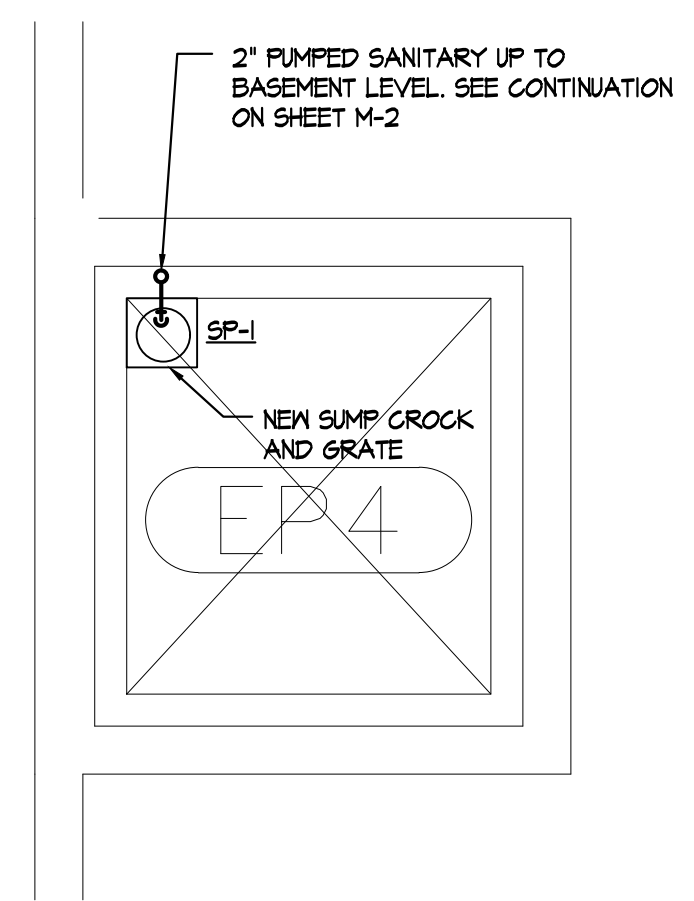
A6.4



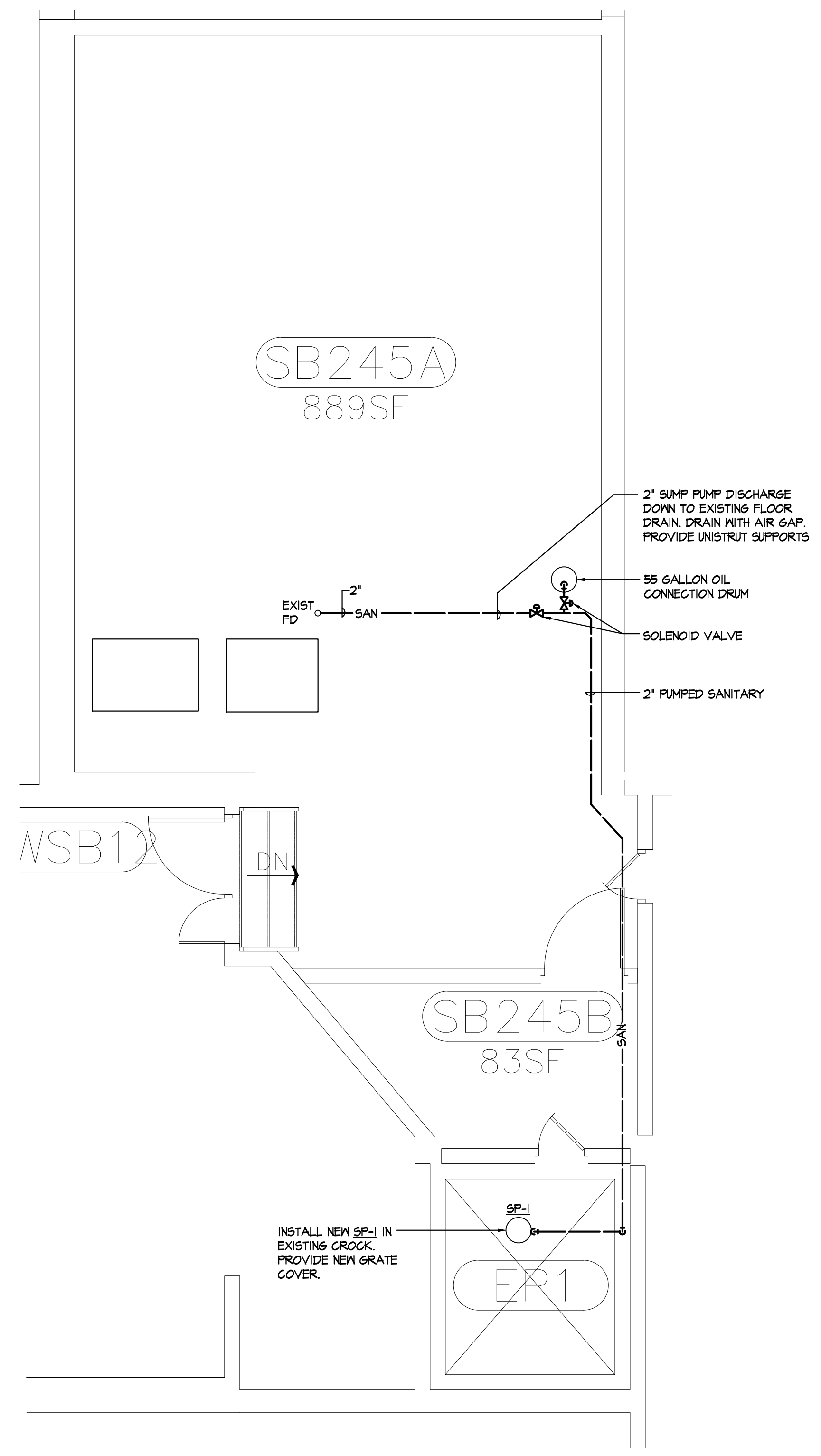
**ELEVATOR EP2 PIT LEVEL PLUMBING PLAN**  
 SCALE: 1/4" = 1'-0"



**ELEVATOR EP3 PIT LEVEL PLUMBING PLAN**  
 SCALE: 1/4" = 1'-0"



**ELEVATOR EP4 PIT LEVEL PLUMBING PLAN**  
 SCALE: 1/4" = 1'-0"



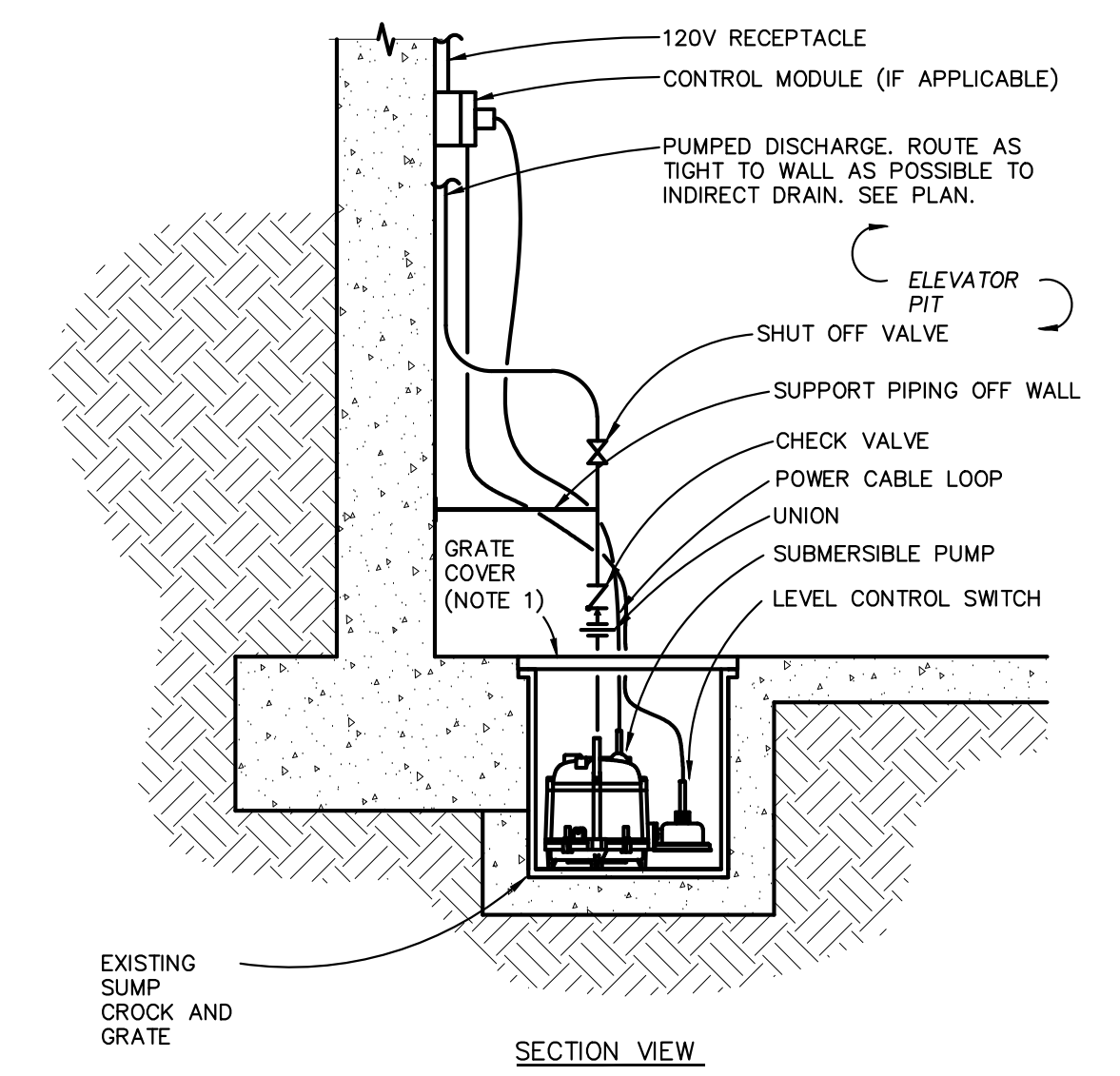
**ELEVATOR EPI PIT LEVEL PLUMBING PLAN**  
 SCALE: 1/4" = 1'-0"

**PLUMBING EQUIPMENT SCHEDULE**

SP-1	WEIL MODEL 1411 SUBMERSIBLE SUMP PUMP WITH 50 GPM, 25 FT HD, 2" DISCHARGE, 1/2HP, 120 VAC. PROVIDE MODEL AISEES SIMPLEX SINGLE PHASE PANEL OIL REMOVAL KIT WITH CONTROL PANEL, LIQUID SMART SENSOR, AND OIL SMART SWITCH. PROVIDE (1) MODEL 95-18 2" CLOSED SOLENOID VALVE, AND A 55 GALLON OIL CONTAINMENT DRUM. PROVIDE A HIGH LEVEL SWITCH FOR INSTALLATION IN THE 55 GALLON DRUM. PROVIDE A FIBERGLASS 18" DIAMETER X 24" DEEP (MINIMUM) SUMP CROCK.
------	--

**SP-1 SEQUENCE OF OPERATION**

SYSTEM SHALL START THE PUMP AND INDICATOR LIGHT WHEN WATER LEVEL IS SENSED AND TURN THE PUMP OFF AFTER PUMP DOWN. IF THE SYSTEM SENSES OIL IT SHALL CLOSE THE NORMALLY OPEN WATER SOLENOID VALVE AND OPEN THE NORMALLY CLOSED OIL VALVE. OIL WILL BE PUMPED TO STORAGE TANK UNTIL THE PRESENCE OF OIL IS GONE AT WHICH POINT THE SOLENOID VALVES WILL REVERSE. IF THE OIL IN THE STORAGE TANK GETS TO A LEVEL THAT THE TANK MIGHT OVERFLOW, THE TANK SWITCH WILL SENSE THIS AND STOP THE PUMP WHILE ACTIVATING THE ALARM AND ALARM LIGHT.

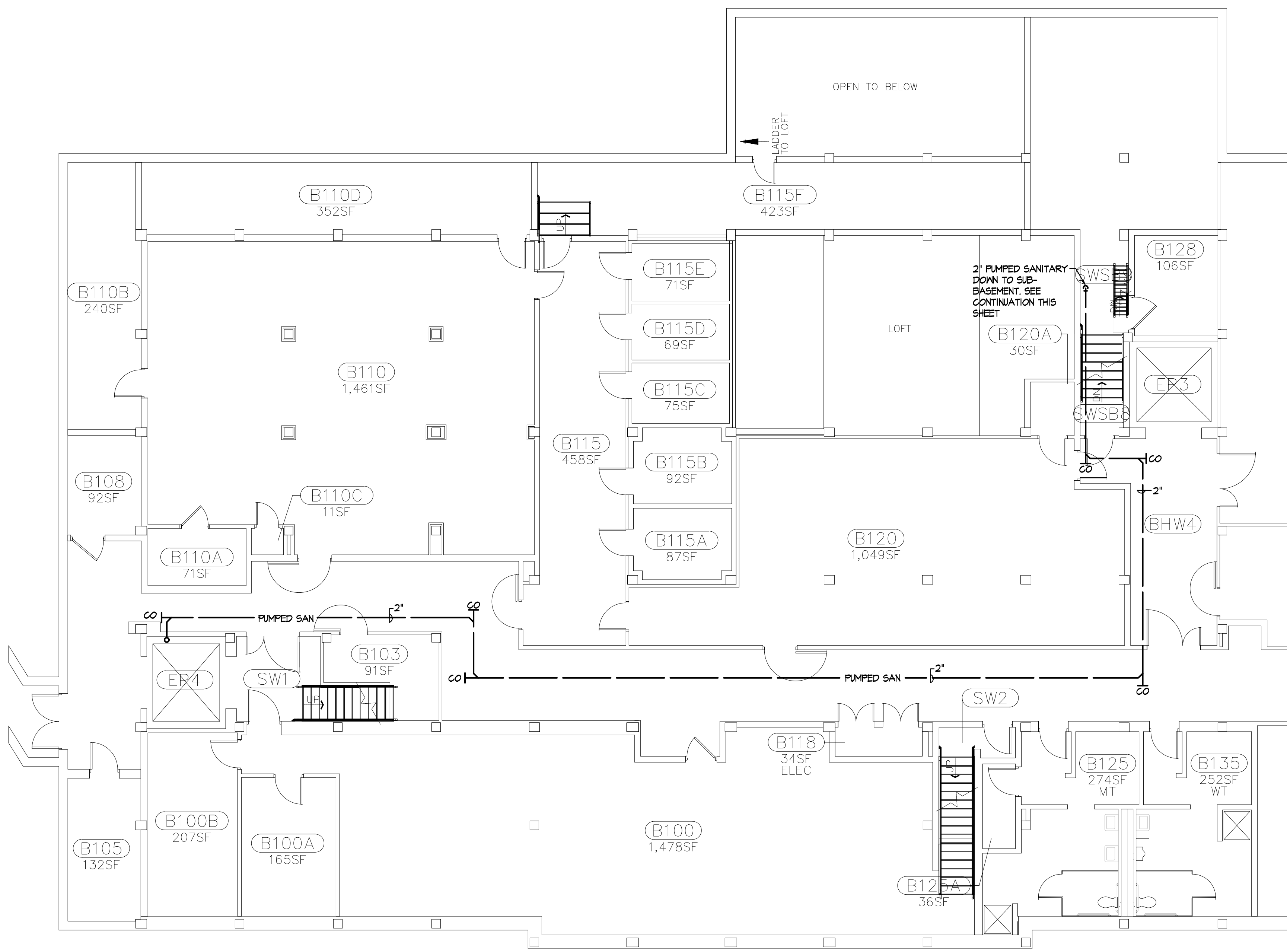


**ELEVATOR SUBMERSIBLE SIMPLEX SUMP PUMP PIPING DIAGRAM**  
 NO SCALE

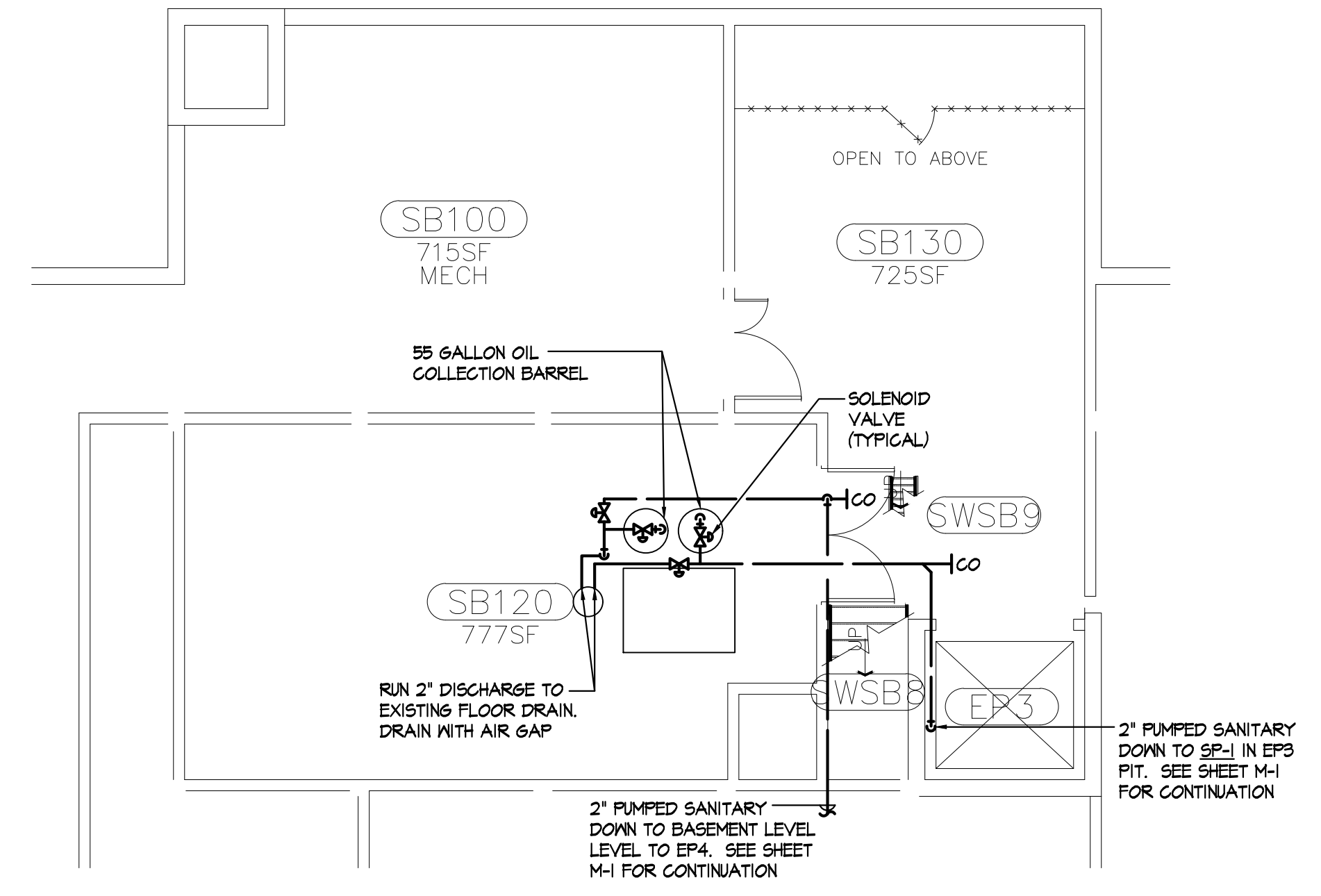
NOTES:  
 1. PROVIDE 1 INCH GALVANIZED STEEL GRATE. INSTALL FLUSH WITH ELEVATOR PIT FLOOR.

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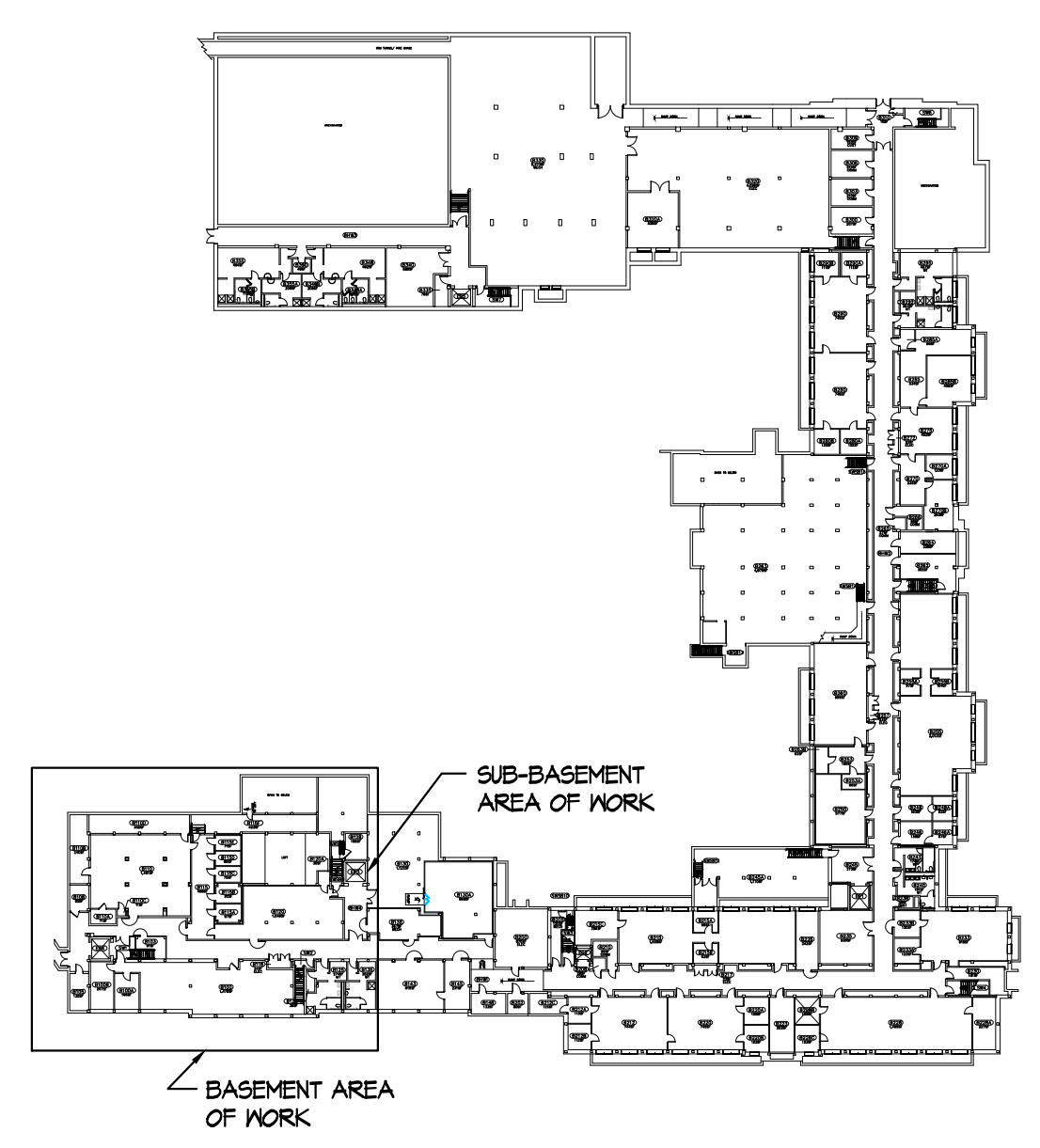
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**PARTIAL BASEMENT PLUMBING PLAN**  
 NORTH SCALE: 1/8" = 1'-0"



**PARTIAL SUB-BASEMENT PLUMBING PLAN**  
 NORTH SCALE: 1/8" = 1'-0"



**KEY PLAN**  
 NORTH SCALE: NONE

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EXISTING PANELBOARD "ERP-CBA"

CKT NO.	LOAD SERVED	REMARKS	120/208V-3PH-4W			200A MAIN LUGS			SURFACE MOUNTING			LOAD SERVED	REMARKS	CKT NO.
			VA Phase A	VA Phase B	VA Phase C	VA Phase A	VA Phase B	VA Phase C	VA Phase A	VA Phase B	VA Phase C			
1	SPARE	①	20	-				800				EM SHOWER 242, 245	①②	2
3	B210 SECURITY	①②	20	400				600				EM SHOWER	①②	4
5	SPARE	①	20		200					600		B243 WATER HORN	①②	6
7	FLOOR COMM. ROOM B210 COMM	①②	20	200				200				FLOOR COMM ROOM B266 COMM	①②	8
9	FLOOR COMM. ROOM 2203 COMM	①②	20	200				200				FLOOR COMM ROOM B266 COMM	①②	10
11	FLOOR COMM. ROOM 2203 COMM	①②	20		200				200			FLOOR COMM ROOM 1203 SIEMENS SECURITY	①②	12
13	NIGHT LIGHTS ROOMS 1140, 120, 1100, 1132	①②	20	1540				200				FLOOR COMM ROOM 1203	①②	14
15	FLOOR COMM ROOM 3215	①②	20	200				800				SECOND FLOOR EM SHOWERS	①②	16
17	FLOOR COMM ROOM 3215	①②	20		200				200			FLOOR COMM ROOM B260	①②	18
19	FLOOR COMM ROOM 1214 SIEMENS SECURITY	①②	20	400				200				FLOOR COMM ROOM B260	①②	20
21	FLOOR COMM ROOM 1214	①②	20	400				200				FLOOR COMM ROOM 3212	①②	22
23	SECOND FLOOR EM SHOWERS	①②	20		400				200			FLOOR COMM ROOM 3212	①②	24
25	SPARE	①	20	-				600				EM SHOWER CONDUIT CAPPED OFF WEST END	①②	26
27	ELEVATOR EP2 CAB LIGHTS	①④	20	200				200				ELEVATOR EP4 CAB LIGHTS	①④	28
29	ELEVATOR EP2 CAB SUMP PUMP	①④	20		1176				1176			ELEVATOR EP4 CAB SUMP PUMP	①④	30
31	ELEVATOR EP2 MACHINE RM LIGHTS, RECEPT.	①④	20	-				-	-			ELEVATOR EP4 MACHINE RM LIGHTS, RECEPT.	①④	32
33	ELEVATOR EP2 PIT/SHAFT LIGHTS, RECEPT.	①④	20	-				-	-			ELEVATOR EP4 PIT/SHAFT LIGHTS, RECEPT.	①④	34
35	ELEVATOR EP2 CAB LIGHTS	①④	20		200				200			ELEVATOR EP3 CAB LIGHTS	①④	36
37	ELEVATOR EP2 CAB SUMP PUMP	①④	20	1176				1176				ELEVATOR EP3 CAB SUMP PUMP	①④	38
39	ELEVATOR EP2 MACHINE RM LIGHTS, RECEPT.	①④	20	-				-	-			ELEVATOR EP3 MACHINE RM LIGHTS, RECEPT.	①④	40
41	ELEVATOR EP2 PIT/SHAFT LIGHTS, RECEPT.	①④	20	-				-	-			ELEVATOR EP3 PIT/SHAFT LIGHTS, RECEPT.	①④	42
TOTAL VA											TOTAL VA			
												TOTAL PHASE A =		
												TOTAL PHASE B =		
												TOTAL PHASE C =		

PANEL NOTES:  
 ① EXISTING CIRCUIT BREAKER  
 ② EXISTING LOAD  
 ③ NEW CIRCUIT BREAKER  
 ④ NEW OR RELOCATED LOAD

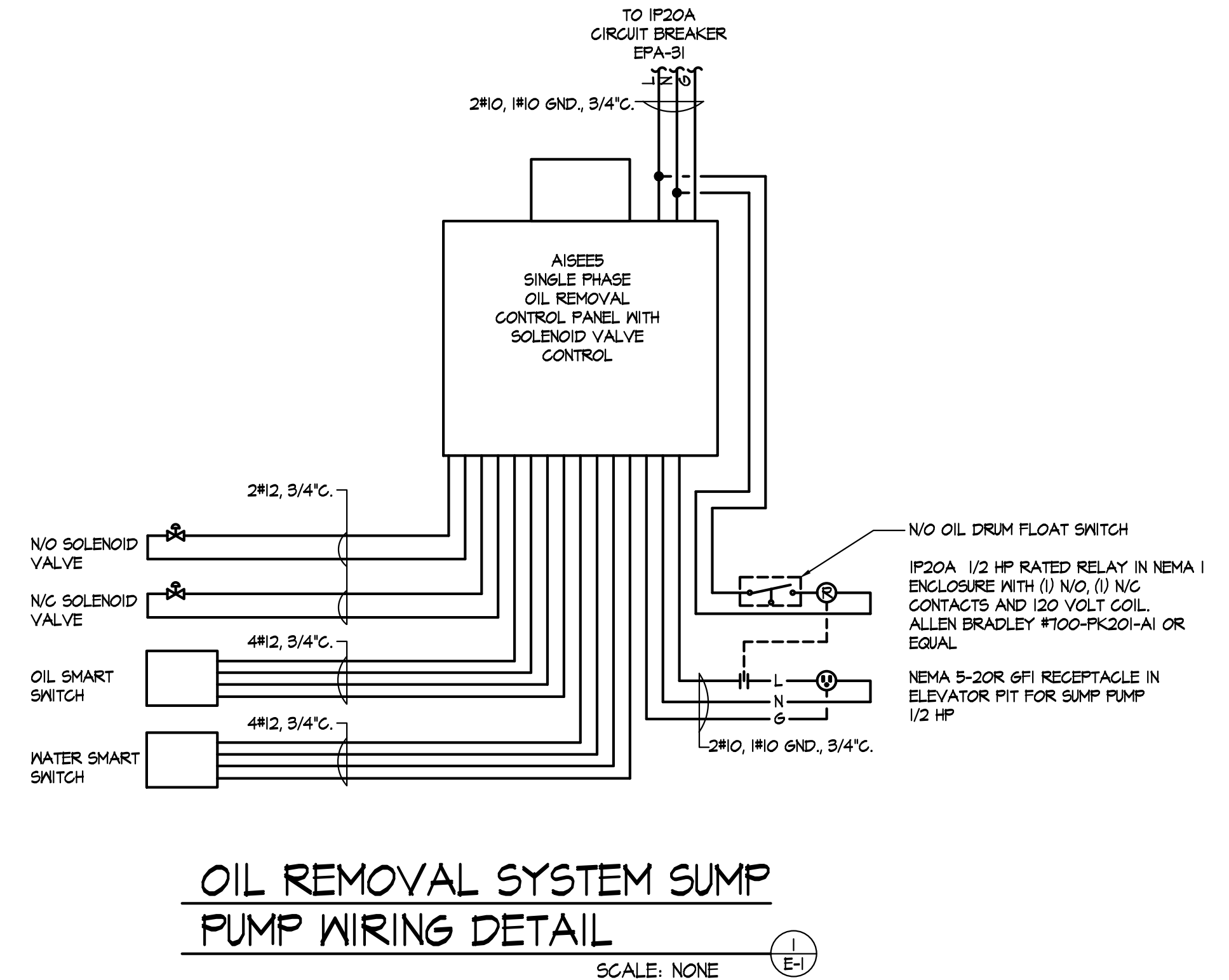
GENERAL ELECTRICAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL STATE AND LOCAL CODES, AND MSJ STANDARDS.
- OBTAIN AND PAY FOR ALL PERMITS.
- COORDINATE THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT AND CONNECTIONS WITH ARCHITECTURAL AND MECHANICAL PLANS AND EQUIPMENT DRAWINGS.
- BACK TO BACK OR THRU THE WALL BOXES SHALL NOT BE USED. BOXES INSTALLED ON OPPOSITE SIDES OF A FIRE RATED PARTITION SHALL BE SEPARATED BY 24" MINIMUM.
- IN FINISHED AREAS, ALL CONDUIT SHALL BE CONCEALED AND SWITCHES, RECEPTACLES, STARTERS SHALL BE RECESSED WITH STAINLESS STEEL COVERS.
- ALL CONDUCTORS SHALL BE COPPER ALUMINUM CONDUCTORS WILL NOT BE ACCEPTABLE.
- MOTOR LOADS WHICH ARE LESS THAN 60 AMPS SHALL BE PROTECTED BY A 15 AMP CIRCUIT BREAKER.
- WIRING SHALL BE TYPE THIN OR THIN INSTALLED IN CONDUIT. CONDUIT UP TO 4" SHALL BE TYPE ENT. 2-1/2" CONDUIT SIZES ARE BASED ON TYPE THIN WIRE. IF THIN WIRE IS USED, ALL WIRE AND CONDUIT SIZES SHALL BE ADJUSTED ACCORDINGLY.
- FINAL CONNECTION TO ITEMS SUBJECT TO VIBRATION SHALL BE MADE WITH FLEXIBLE METALLIC OR LIQUIDTITE FLEXIBLE METALLIC CONDUIT. INSTALL LIQUIDTITE FLEXIBLE CONDUIT IN WET, DAMP OR CORROSIVE ATMOSPHERE LOCATIONS. FLEXIBLE METALLIC CONDUIT OR LIQUIDTITE FLEXIBLE METALLIC CONDUIT WILL NOT BE APPROVED FOR USE AS A GROUNDING CONDUCTOR. A SEPARATE GREEN GROUND WIRE SHALL BE INSTALLED IN ALL FLEXIBLE METALLIC CONDUIT AND LIQUIDTITE FLEXIBLE METALLIC CONDUIT.
- ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE. DISCONNECT SWITCHES INSTALLED INDOORS SHALL BE NEMA TYPE 1 WEATHERPROOF DISCONNECT SWITCHES SHALL BE NEMA TYPE 4X STAINLESS STEEL.
- ALL COMMUNICATIONS WIRING SHALL BE FLEMN RATED.
- ALL CIRCUIT BREAKERS CONTROLLING OR SWITCHING LIGHT FIXTURES SHALL BE "SUD" RATED. ALL CIRCUIT BREAKERS CONTROLLING HVAC EQUIPMENT SHALL BE "HACR" RATED.
- ALL MOTORS SHALL HAVE PROPER THERMAL OVERLOAD PROTECTION SIZE OVERLOADS IN FIELD ACCORDING TO MOTOR NAMEPLATE DATA.
- PROVIDE BLANK STAINLESS STEEL COVER PLATES AT ALL SWITCHES BEING REMOVED OR DISCONNECTED.
- SURFACE MOUNTED WIREMOLD MAY BE USED ON WALLS AND CEILING WHERE IT IS NOT POSSIBLE TO CONCEAL WIREWAY. PAINT TO MATCH BACKGROUND.
- ALL DEVICE MOUNTING HEIGHTS SHALL COMPLY WITH THE STATE OF MICHIGAN BARRIER FREE REQUIREMENTS.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY COMPONENTS AND PARTS FOR A COMPLETE AND OPERATING INSTALLATION OF ALL DEVICES, EQUIPMENT, LIGHT FIXTURES, FURNITURE PANELS, ETC. ACCORDING TO THE MANUFACTURER'S WIRING DIAGRAM, INSTALLATION INSTRUCTIONS, AND RECOMMENDATIONS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ACCURATE AS-BUILT FOR THE ENTIRE ELECTRICAL PROJECT.
- PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL LIGHTS, ELECTRICAL, AND MECHANICAL EQUIPMENT.
- ALL EXTERIOR CONDUIT PENETRATIONS SHALL BE SEALED WATERTIGHT BY A MECHANICAL SEALING DEVICE SUCH AS LINKSEAL.
- GROUND BONDING BUSHINGS SHALL BE USED IN ALL CONDUITS WITH A CONDUITS WITH A GROUND OR EQUIPMENT WITH GROUND WIRE WIRE.

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**Infrastructure Planning and Facilities**  
**MICHIGAN STATE UNIVERSITY**

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OIL REMOVAL SYSTEM SUMP PUMP WIRING DETAIL  
 SCALE: NONE

**ELECTRICAL SYMBOLS**

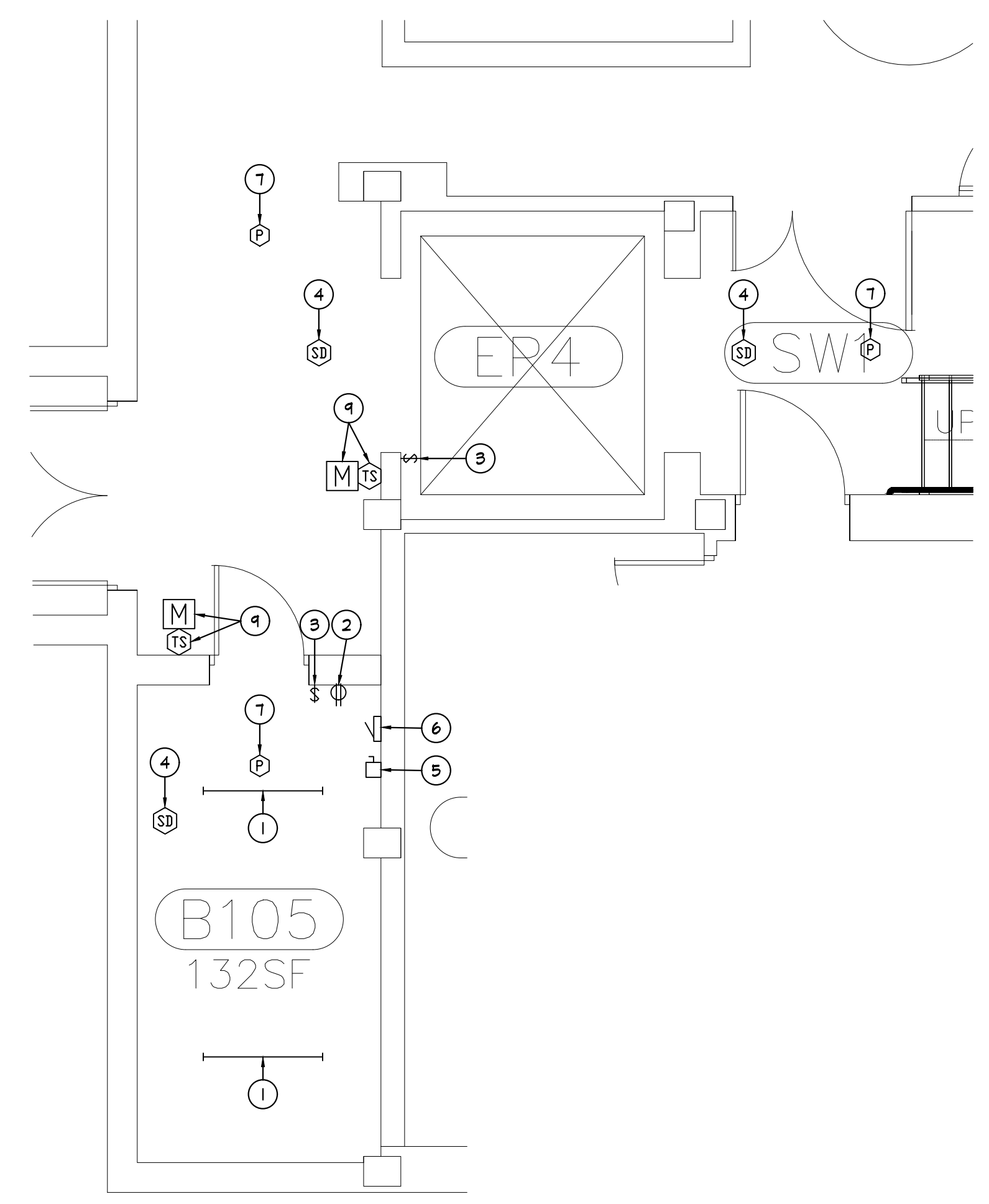
SYMBOLS	DESCRIPTIONS
A	METALUX MODEL 4VT3-LD5-4-G-UNV-L840-CDI LED VAPOR TITE FIXTURE WITH 32M, 4428 LUMENS, 4000K COLOR TEMPERATURE, 80 CRI, 120-277V ELECTRONIC DRIVER, IMPACT RESISTANT POLYCARBONATE HOUSING, AND DIFFUSE POLYCARBONATE LENS.
EM	SURE-LITES MODEL SEL-M-60-R4-SD BATTERY OPERATED EMERGENCY LIGHT WITH (2) LED LAMPS WITH ADJUSTABLE OPTICS, 300 LUMEN OUTPUT, SEALED MAINTENANCE FREE LEAD NICKEL CADMIUM BATTERY, SOLID STATE CHARGER AND SWITCHING DEVICE, AUTOMATIC OVERLOAD DISCONNECT, AUTOMATIC BROWN OUT FEATURE, HIGH CHARGE - READY INDICATOR LIGHT, AND PUSH TO TEST SWITCH. MOUNT TOP 8'-0" A.F.F. UNLESS NOTED OTHERWISE.
\$	SINGLE POLE SWITCH, 20A, 120/277V VOLT
\$3	3-WAY SWITCH, 20A, 120/277V VOLT
\$4	4-WAY SWITCH, 20A, 120/277V VOLT
GFI	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE, 20A, 125 VOLT, SPECIFICATION GRADE
⊙	JUNCTION BOX
□	DISCONNECT SWITCH
●	EQUIPMENT CONNECTION
A-15	HOMERUN w/ 2 #12, 3/4\"/>

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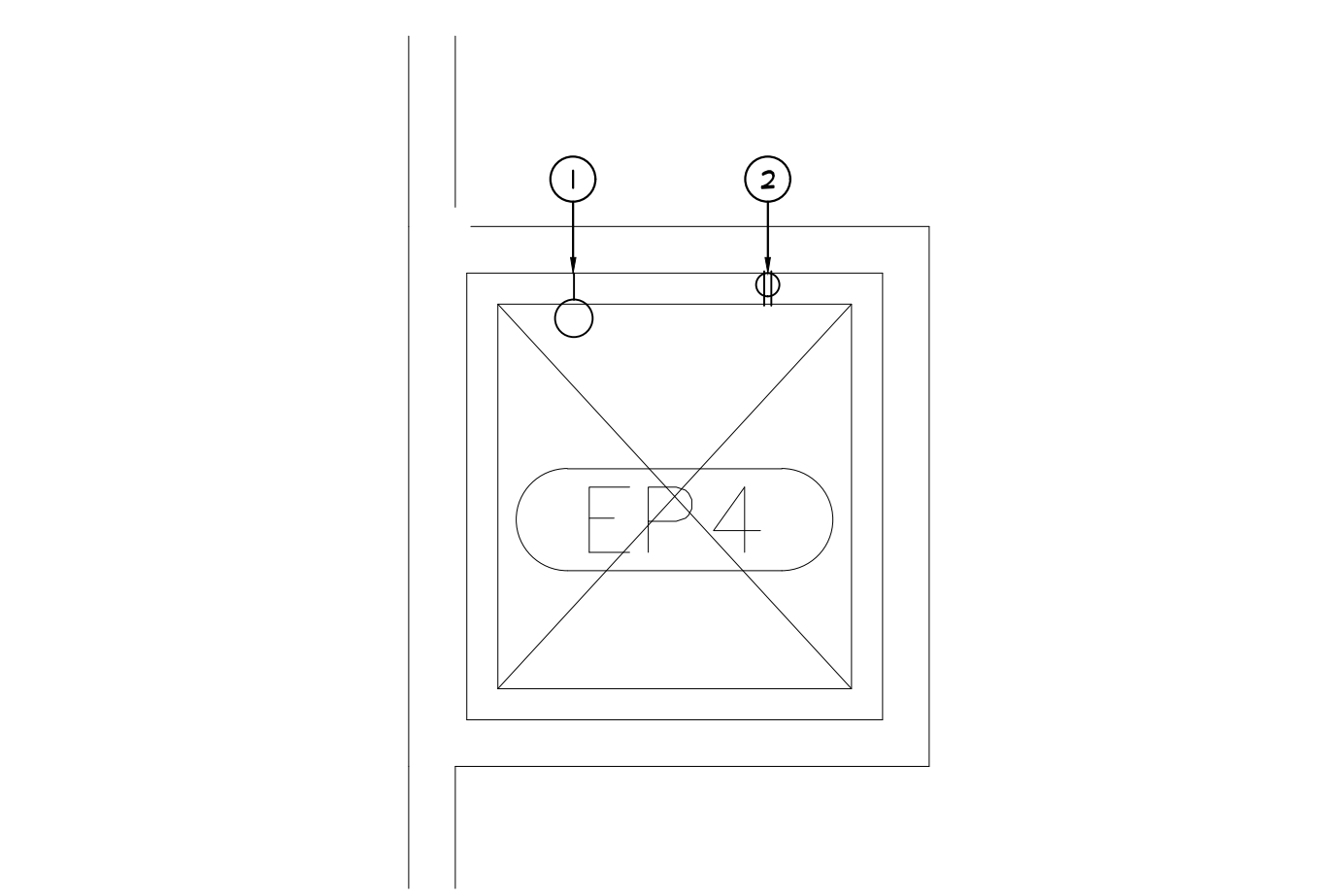
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**ELECTRICAL DEMOLITION NOTES**

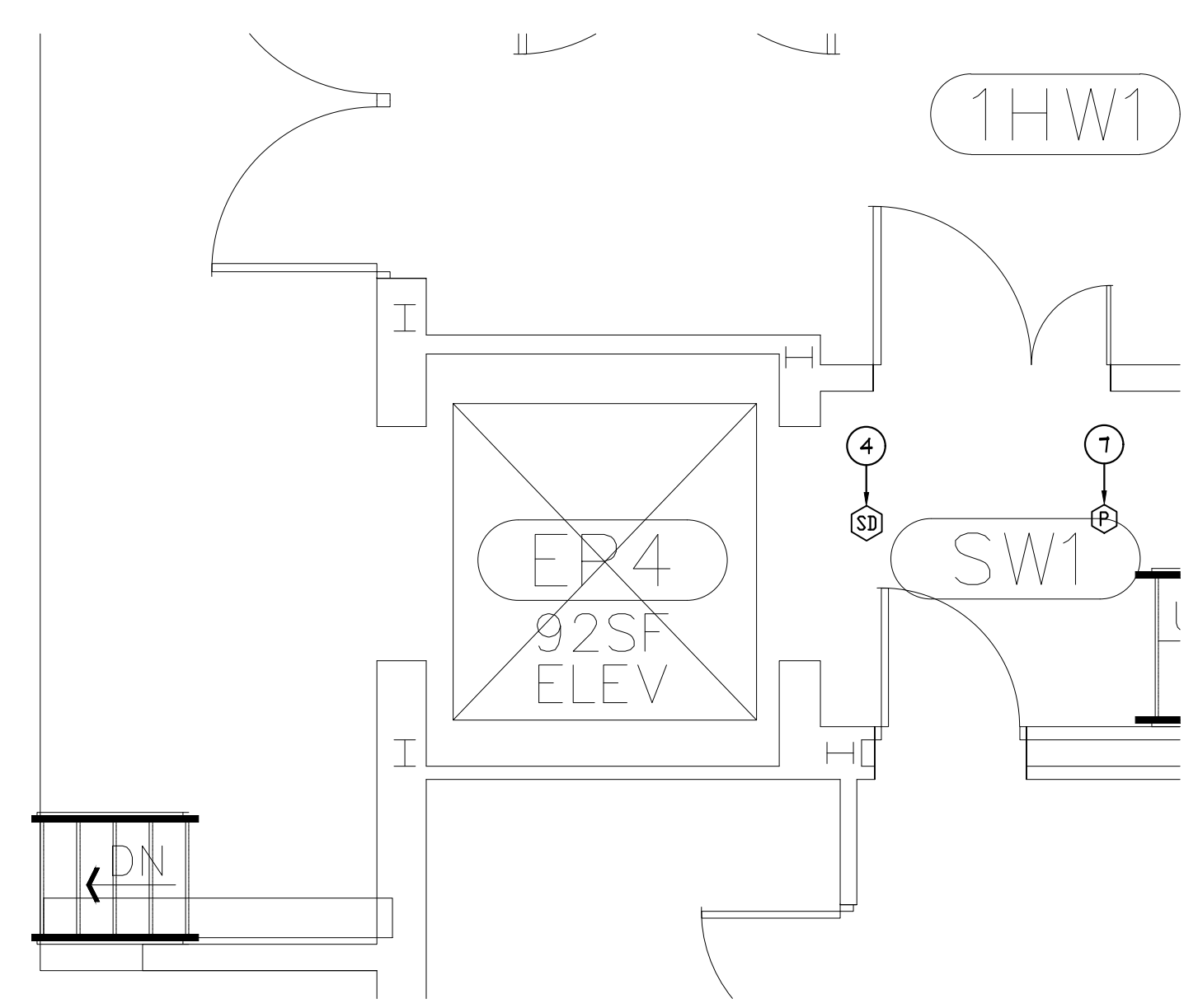
- GENERAL:**
1. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS FOR REMOVAL OF ALL COMPONENTS NECESSARY FOR COORDINATION WITH NEW INSTALLATION. THESE DRAWINGS ARE FOR GENERAL DEMOLITION ONLY. THEY ARE NOT INTENDED TO BE SHOP DRAWINGS. ALL WORK THAT INTERFERES WITH NEW CONSTRUCTION, WHETHER SHOWN OR NOT SHOWN, SHALL BE REMOVED OR RELOCATED AS DIRECTED BY ARCHITECT/ENGINEER.
  2. COORDINATE WITH MECHANICAL PLANS FOR ELECTRICAL DEMOLITION OF MECHANICAL EQUIPMENT.
  3. CONTRACTOR TO TURN OVER ALL DEMOLISHED ELECTRICAL MATERIALS, CONDUIT, AND WIRE TO MSJ SURPLUS
- SPECIFIC:**
- 1 REMOVE EXISTING LIGHT FIXTURE, RACEWAY, AND WIRE BACK TO SOURCE.
  - 2 REMOVE EXISTING RECEPTACLE, RACEWAY, AND WIRE BACK TO SOURCE.
  - 3 REMOVE EXISTING LIGHT SWITCH, RACEWAY, AND WIRE BACK TO SOURCE.
  - 4 ELEVATOR SMOKE DETECTOR AND RACEWAY TO BE REMOVED BY ELEVATOR CONTRACTOR.
  - 5 REMOVE EXISTING ELEVATOR DISCONNECT SWITCH, RACEWAY AND WIRE BACK TO SOURCE.
  - 6 REMOVE EXISTING 2-CIRCUIT PANEL FOR PIT LIGHTS, RECEPTACLE, MACHINE ROOM, AND CAB LIGHTS.
  - 7 EXISTING BUILDING SMOKE DETECTORS TO REMAIN.
  - 8 EXISTING SECURITY PANELS TO REMAIN.
  - 9 EXISTING TAMPER SWITCH AND INTERFACE MODULE TO REMAIN.



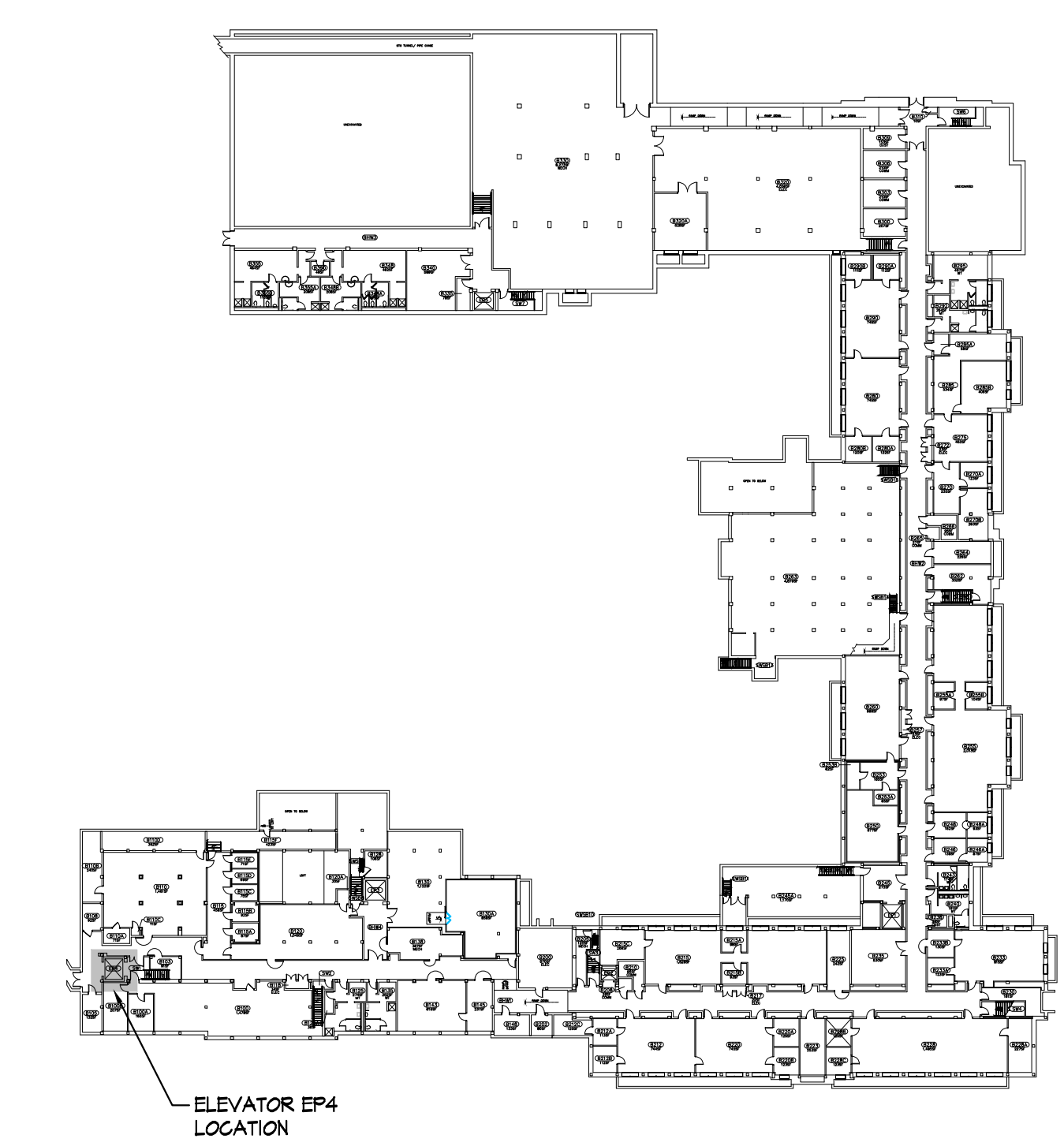
 **ELEVATOR EP4 BASEMENT LEVEL  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



 **ELEVATOR EP4 PIT LEVEL  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



 **ELEVATOR EP4 FIRST FLOOR  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



 **ELEVATOR EP4  
 KEY PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

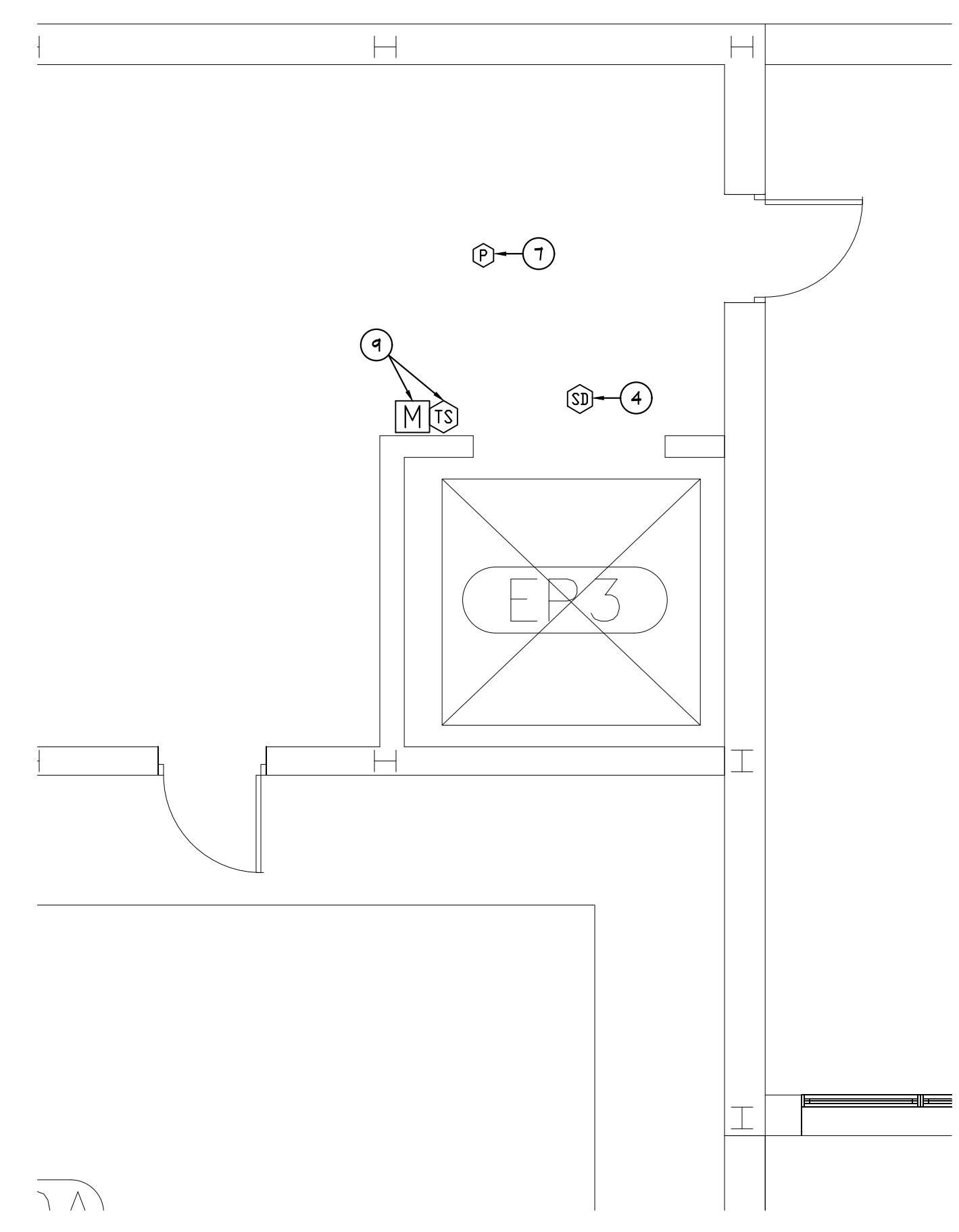
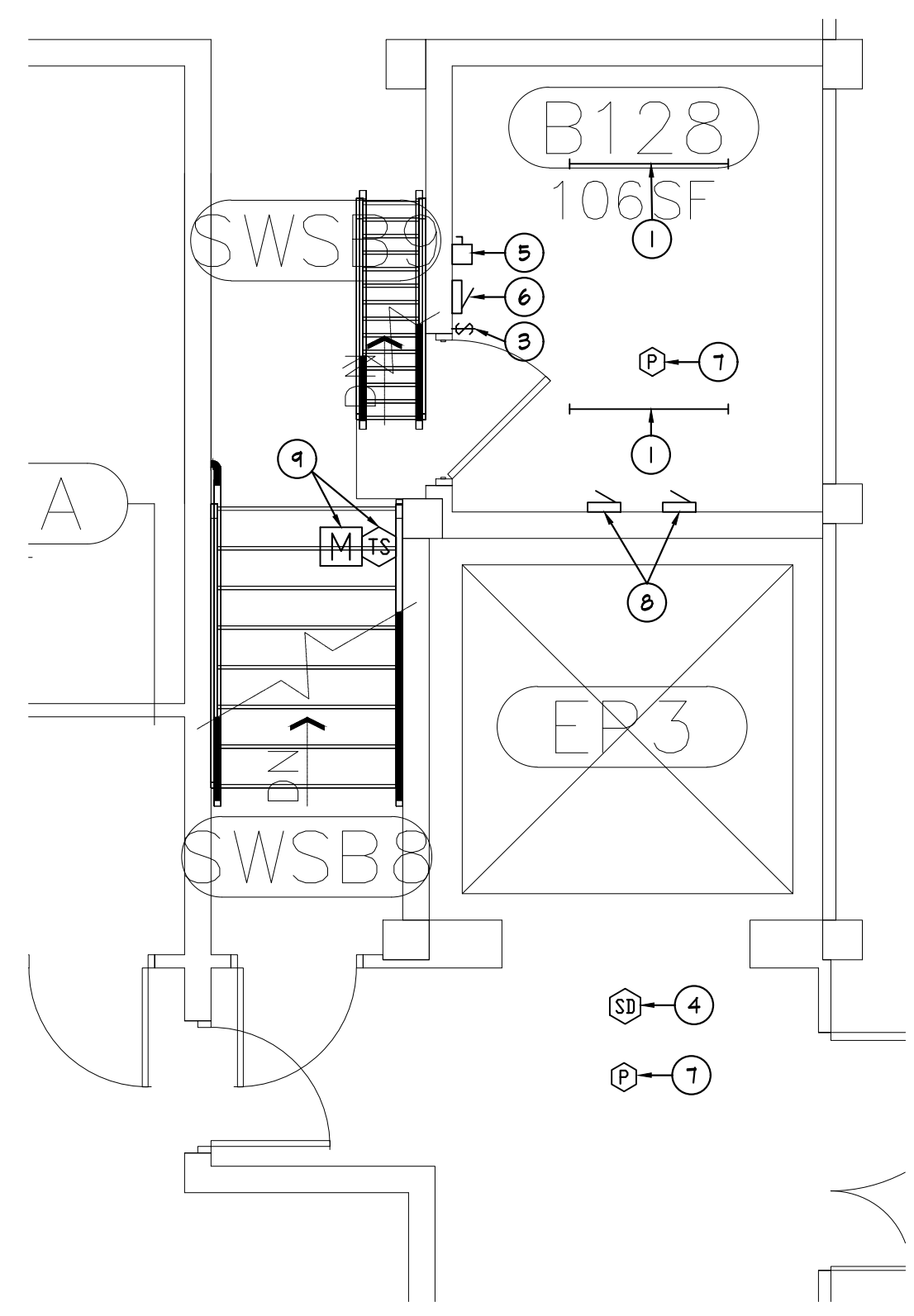
CAPITAL PROJ. NO.  
 CP23041

LEAD	T. Pacifico
ARCH.	B. Charland
MECH.	S. Goerge
ELEC.	K. Howard
CIVIL	
L.A.	
INT.DES	
CONST REP	T. PACIFICO
APPR.	J. Bonk
DATE	9/27/2023
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REVISIONS	
RELEASED FOR BIDS	

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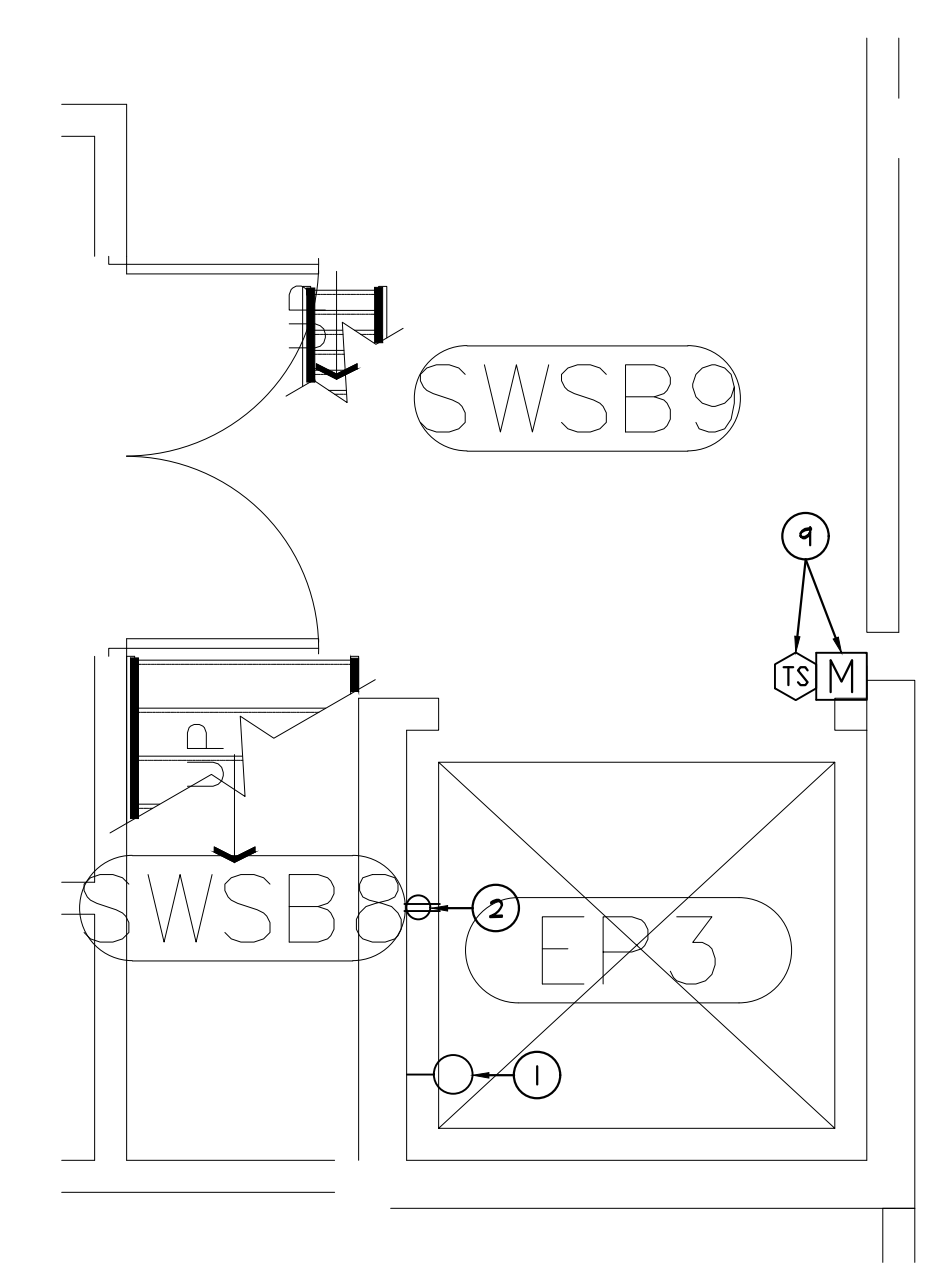
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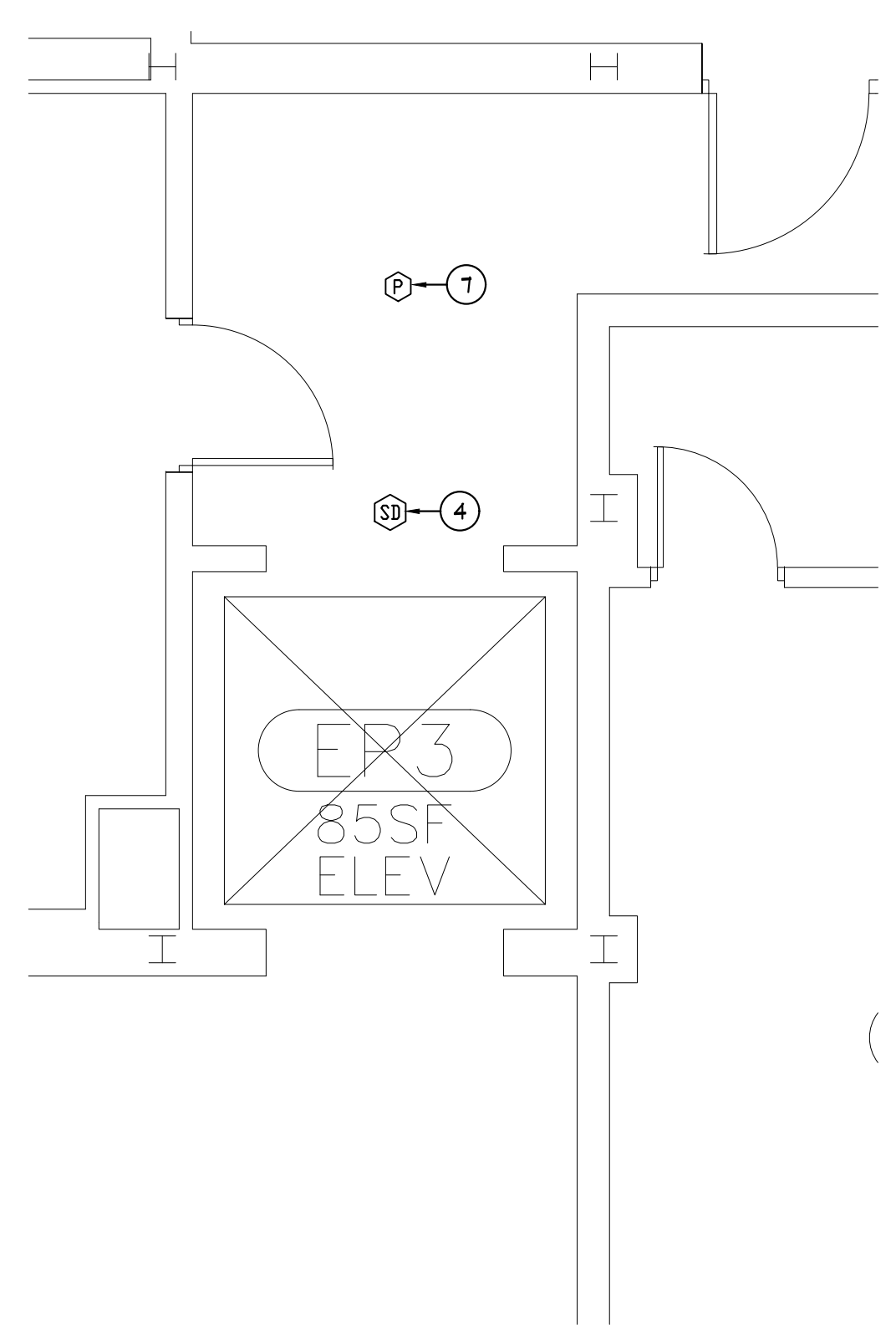


**ELEVATOR EP3 SECOND FLOOR ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

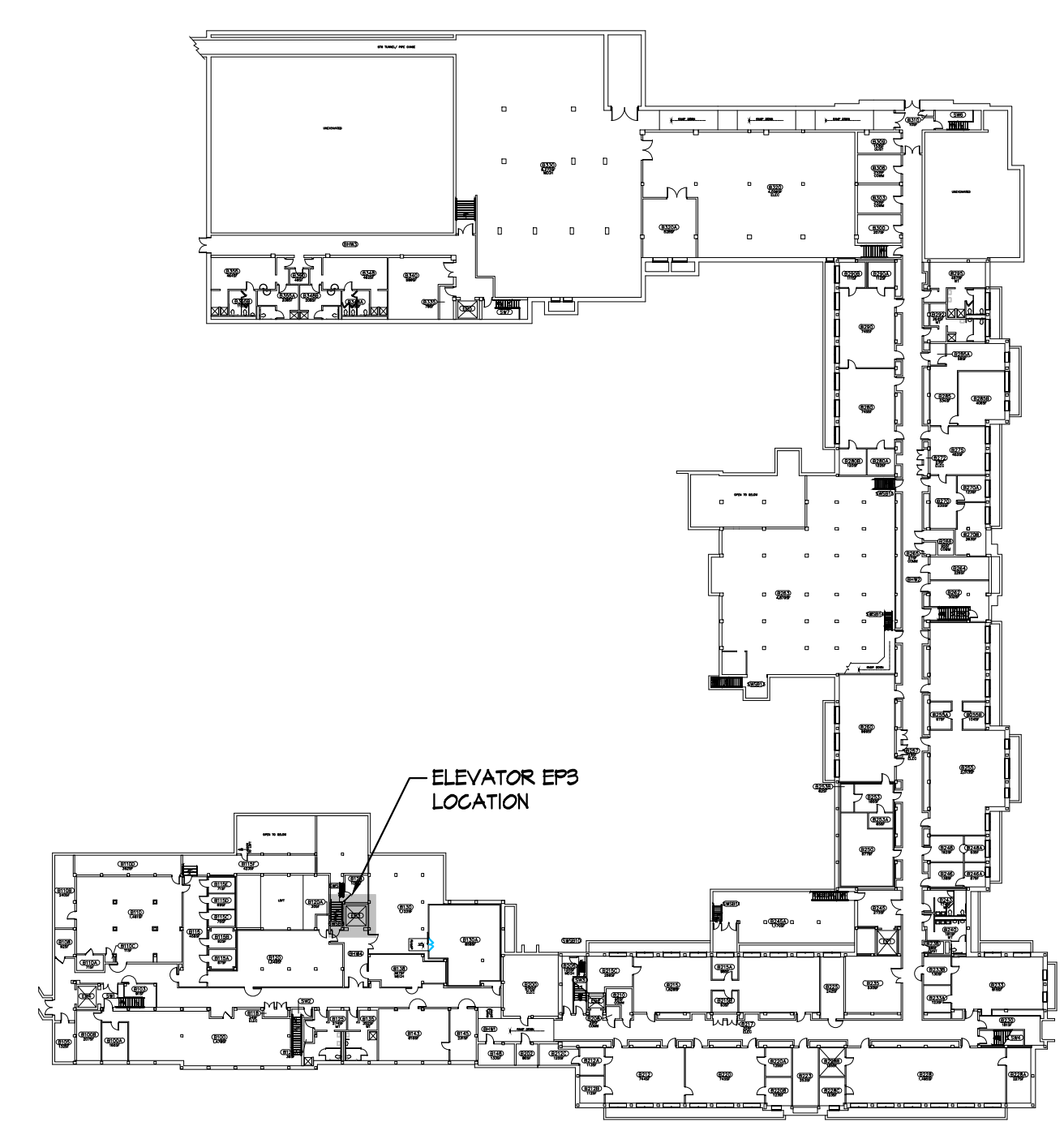
**ELEVATOR EP3 BASEMENT LEVEL ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP3 PIT LEVEL ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP3 FIRST FLOOR ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

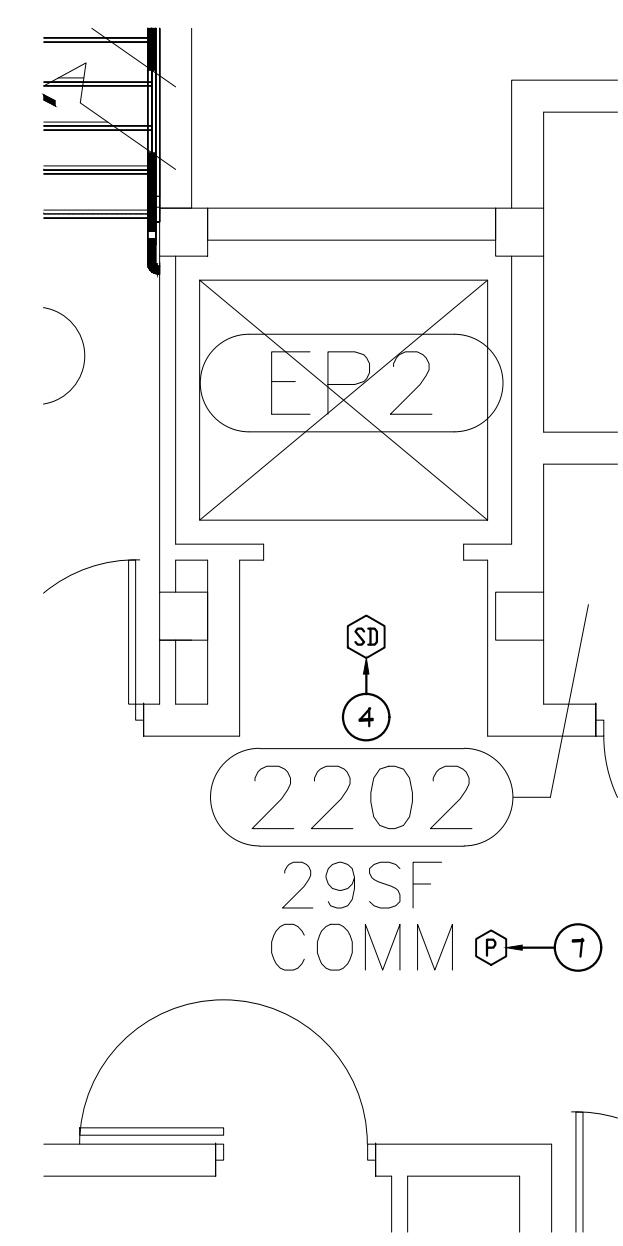
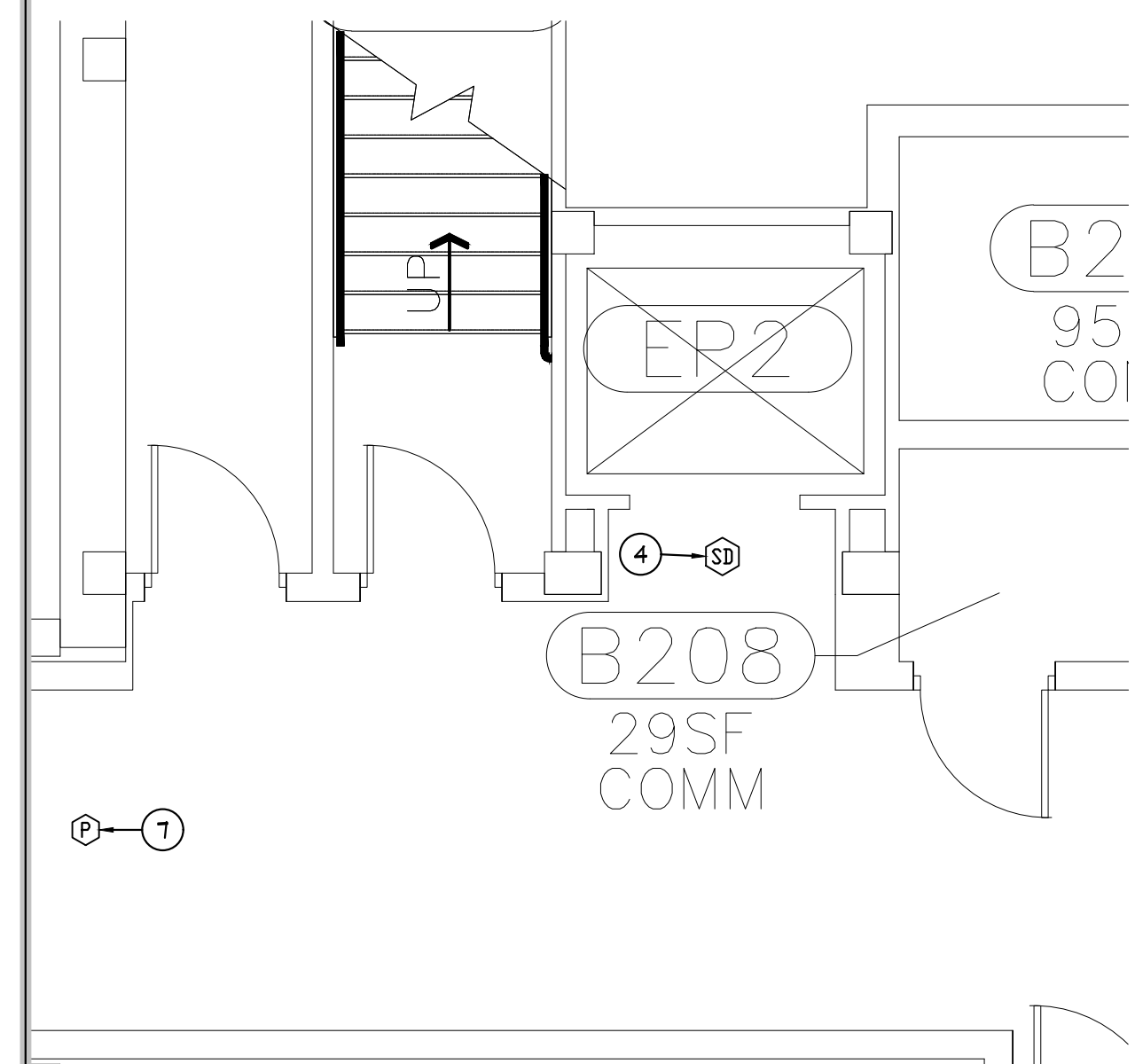


**ELEVATOR EP3 KEY PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



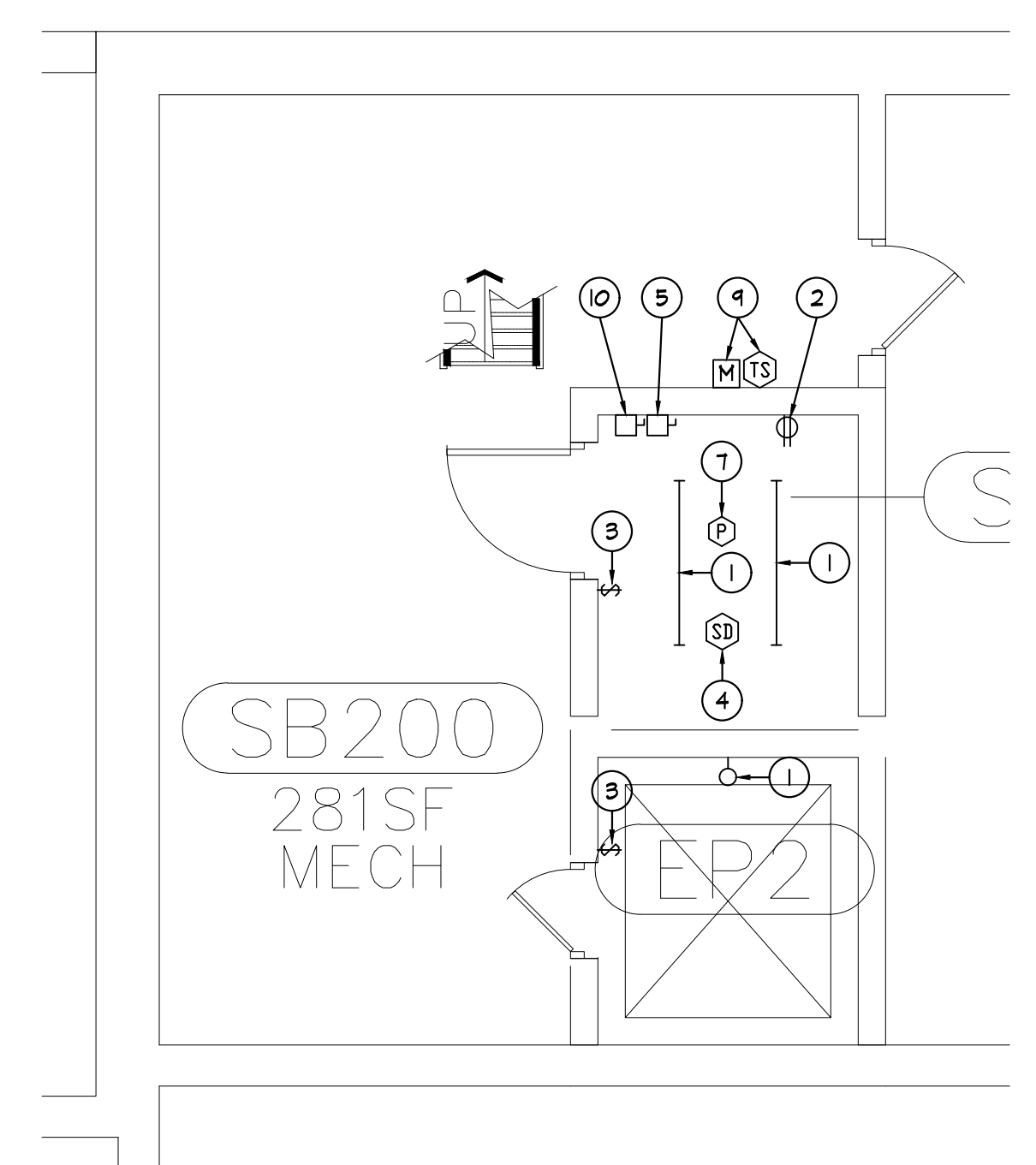
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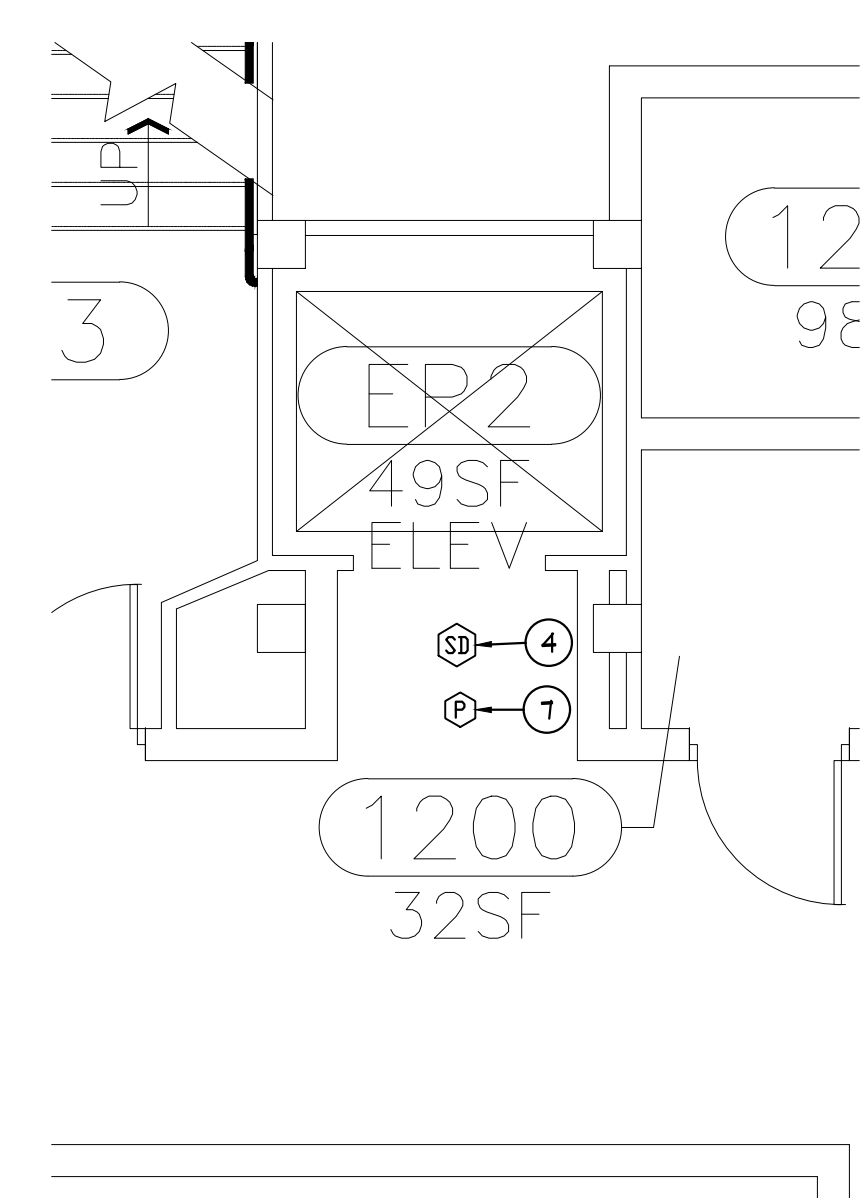


 **ELEVATOR EP2 SECOND FLOOR  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

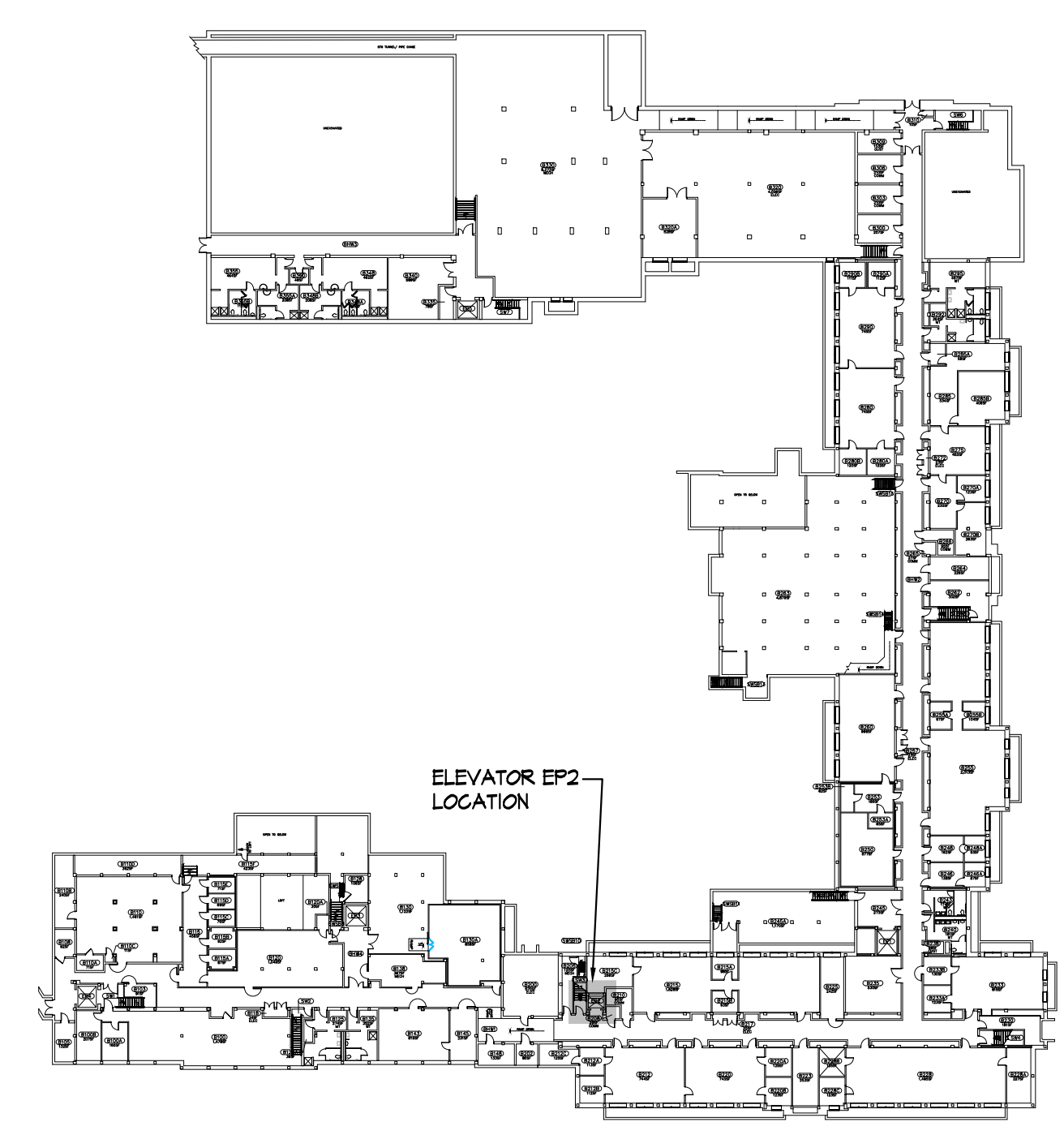
 **ELEVATOR EP2 BASEMENT LEVEL  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



 **ELEVATOR EP2 PIT LEVEL  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



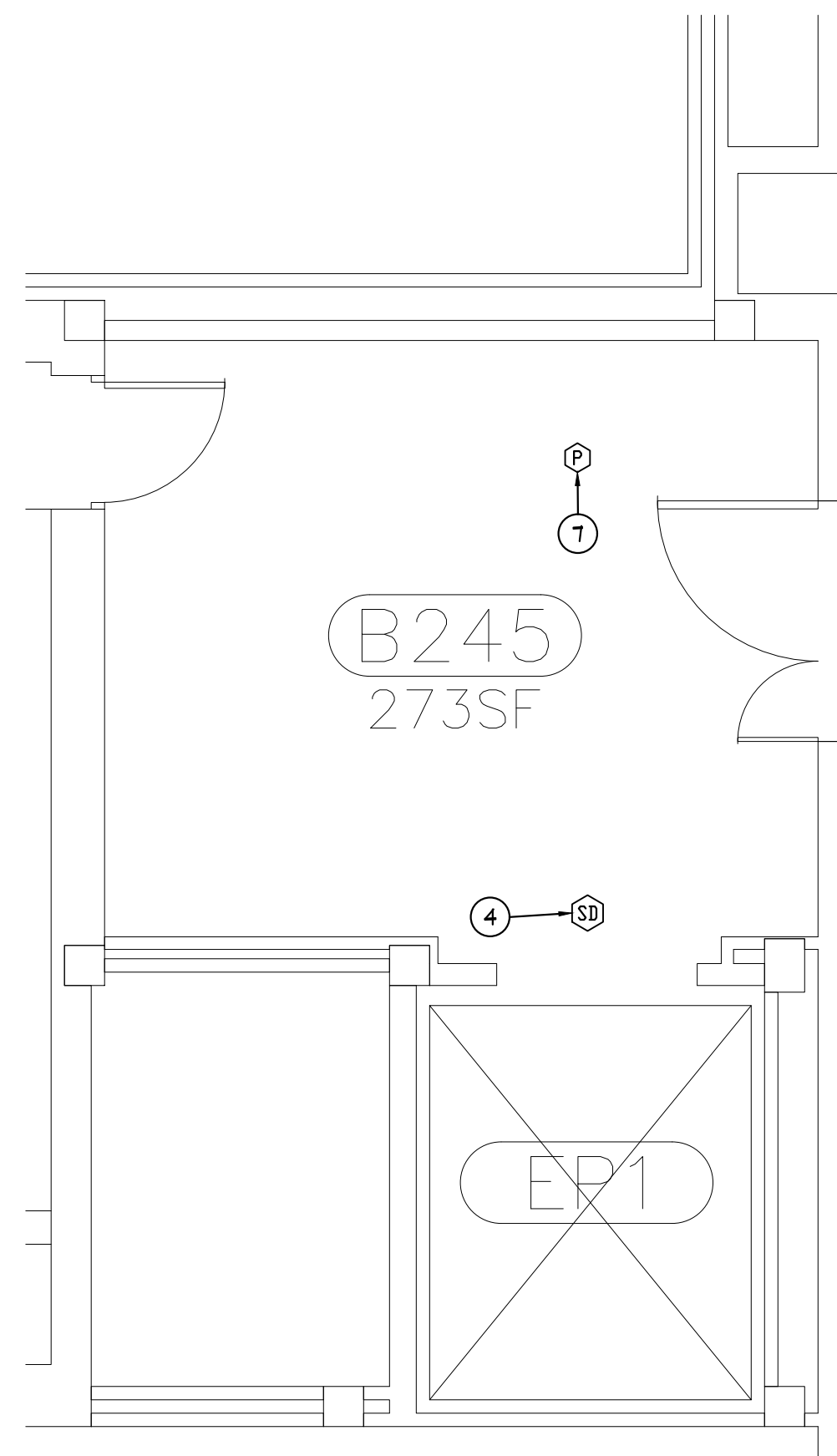
 **ELEVATOR EP2 FIRST FLOOR  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



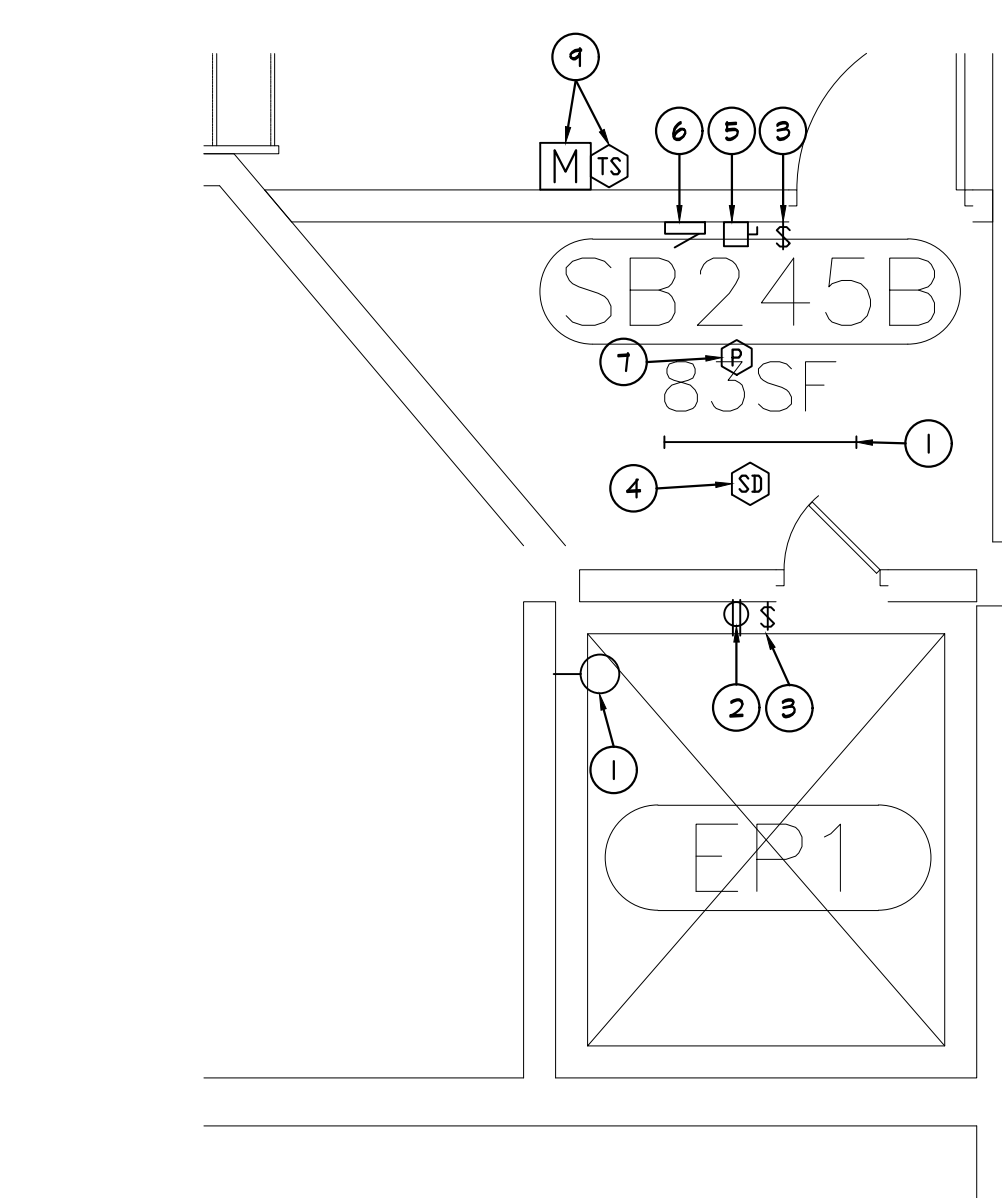
 **ELEVATOR EP2  
 KEY PLAN**  
 NORTH SCALE: NONE

CAPITAL PROJ. NO.  
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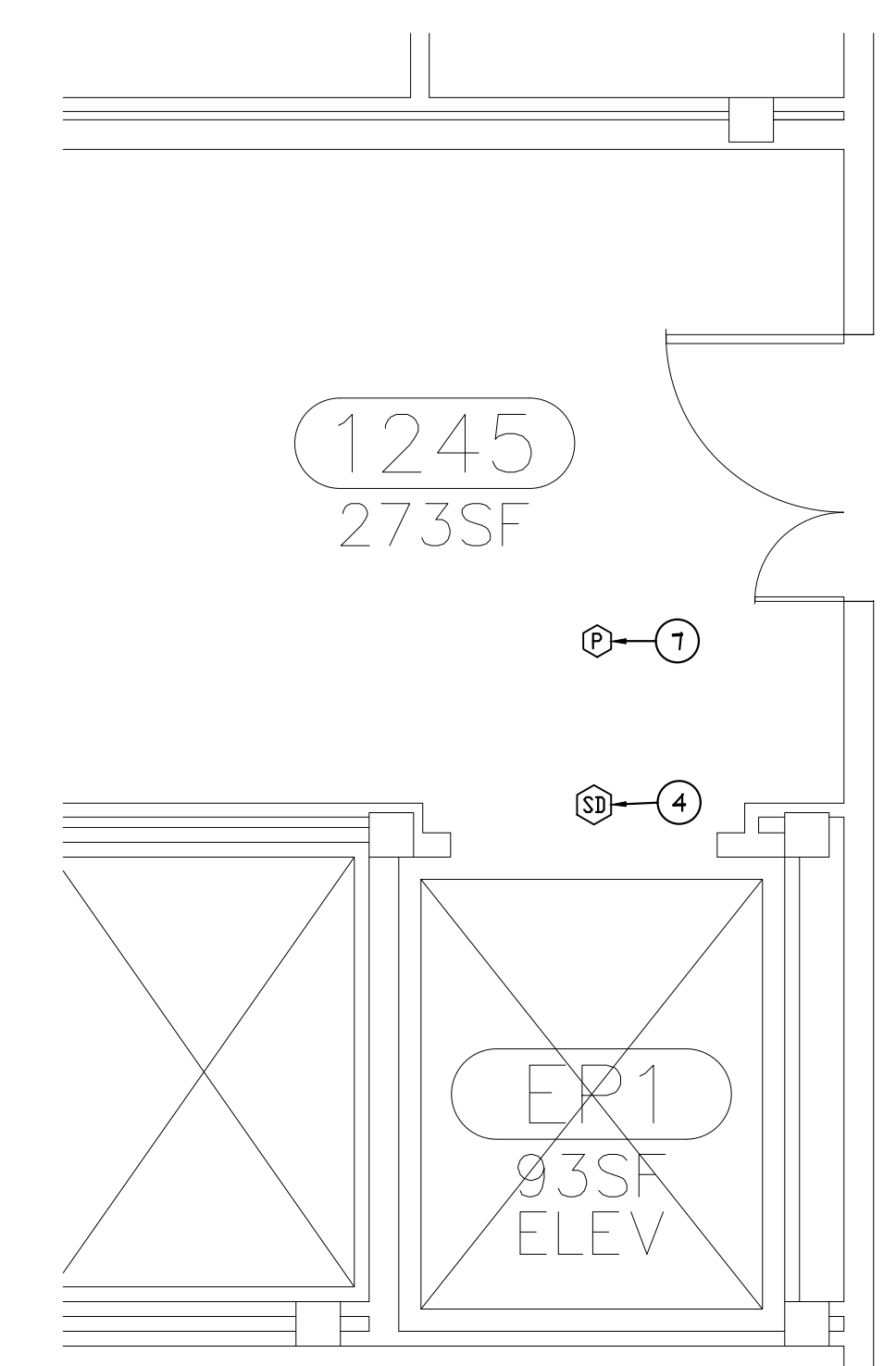
LEAD	T. Pacifico
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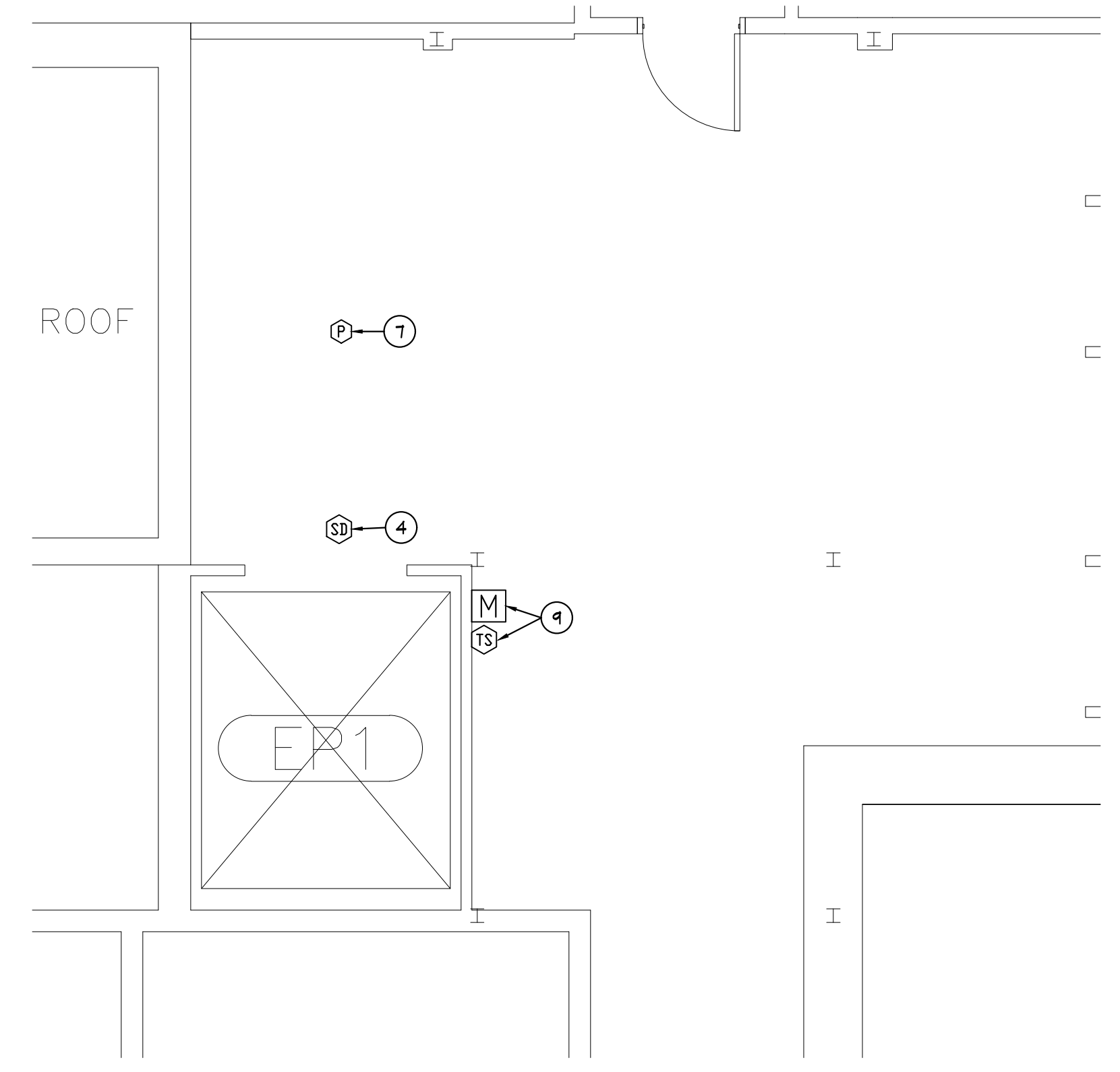
**ELEVATOR EPI BASEMENT LEVEL  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



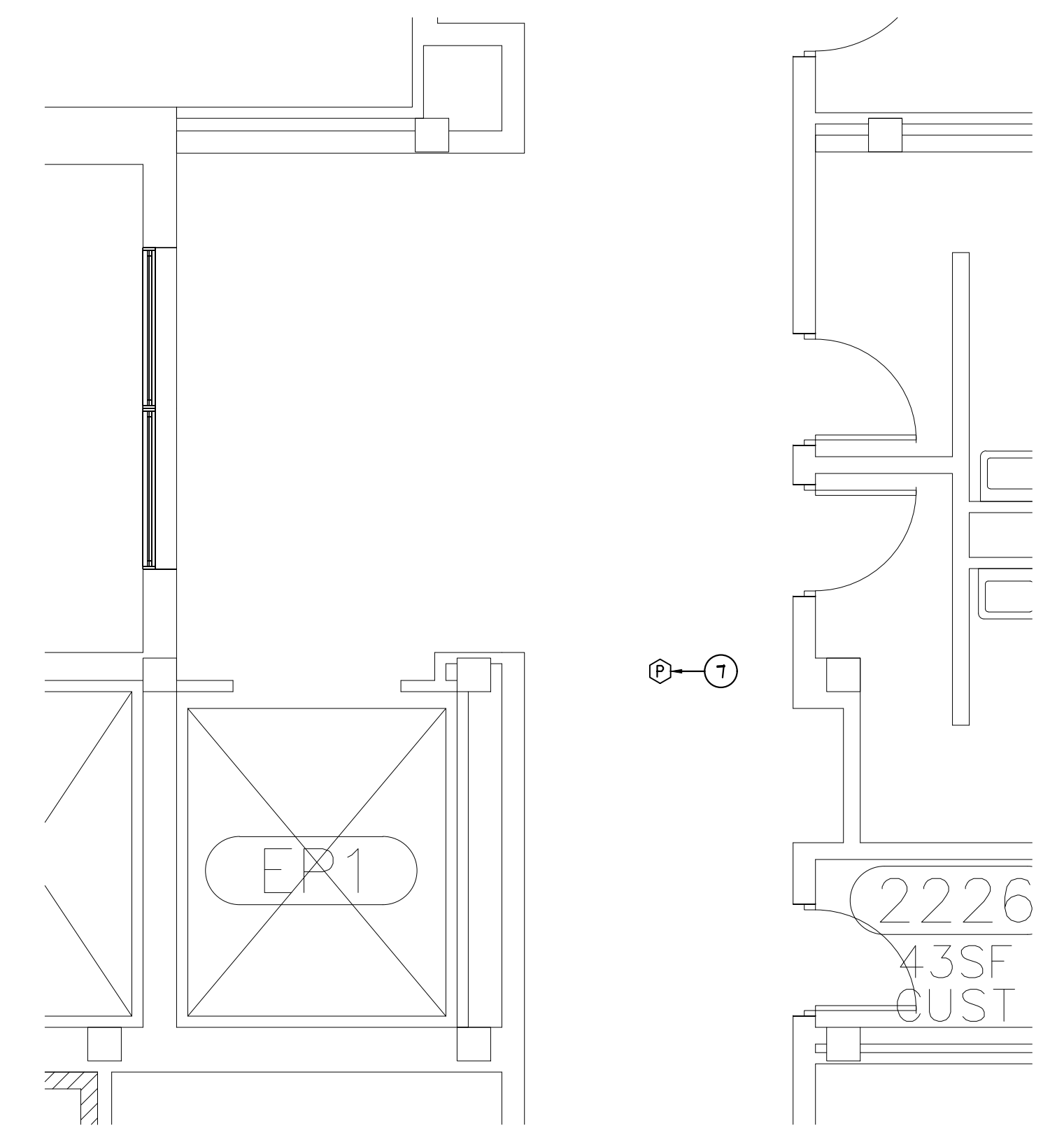
**ELEVATOR EPI PIT LEVEL  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



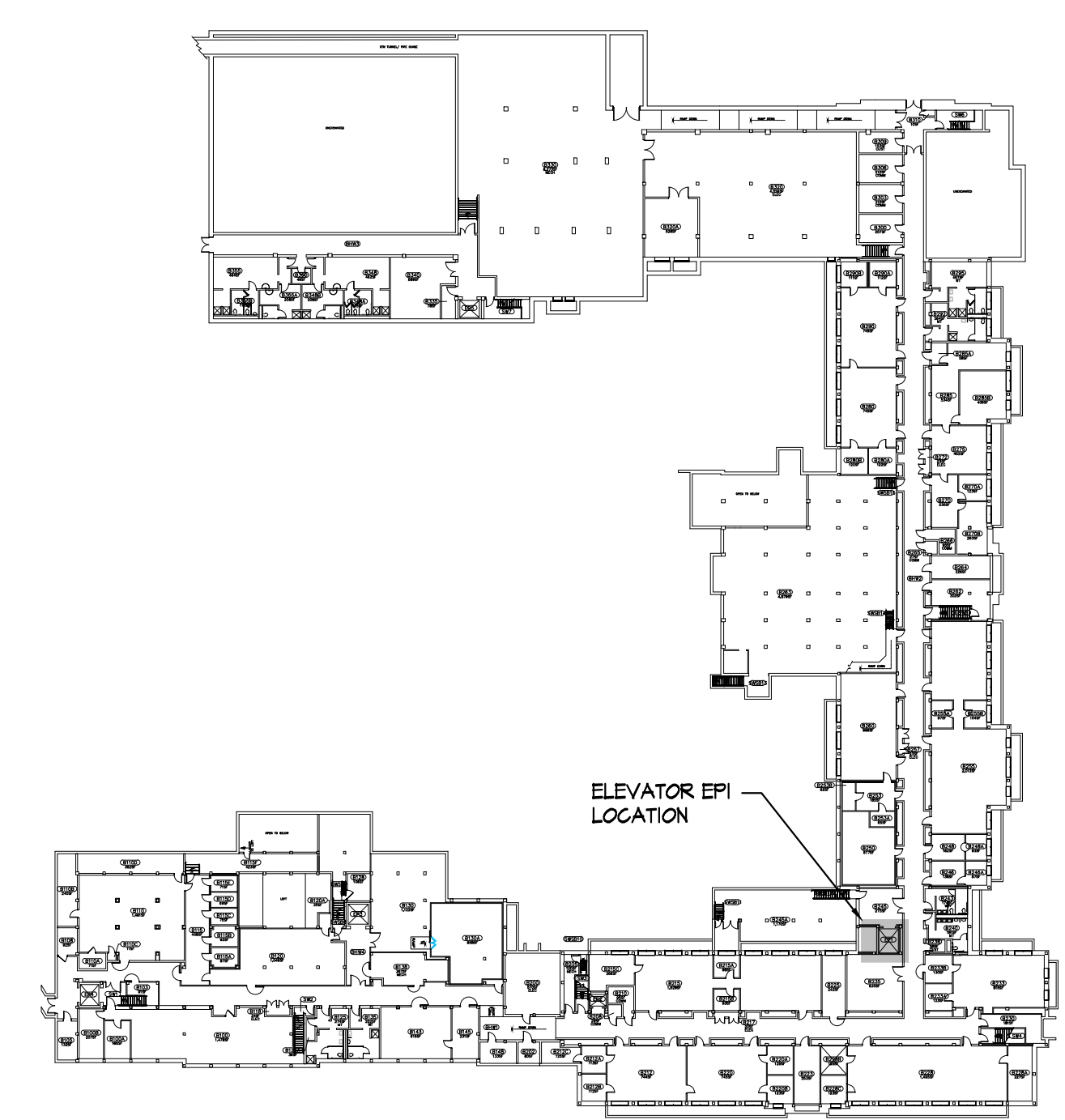
**ELEVATOR EPI FIRST FLOOR  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EPI THIRD FLOOR  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EPI SECOND FLOOR  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EPI  
 KEY PLAN**  
 NORTH SCALE: NONE

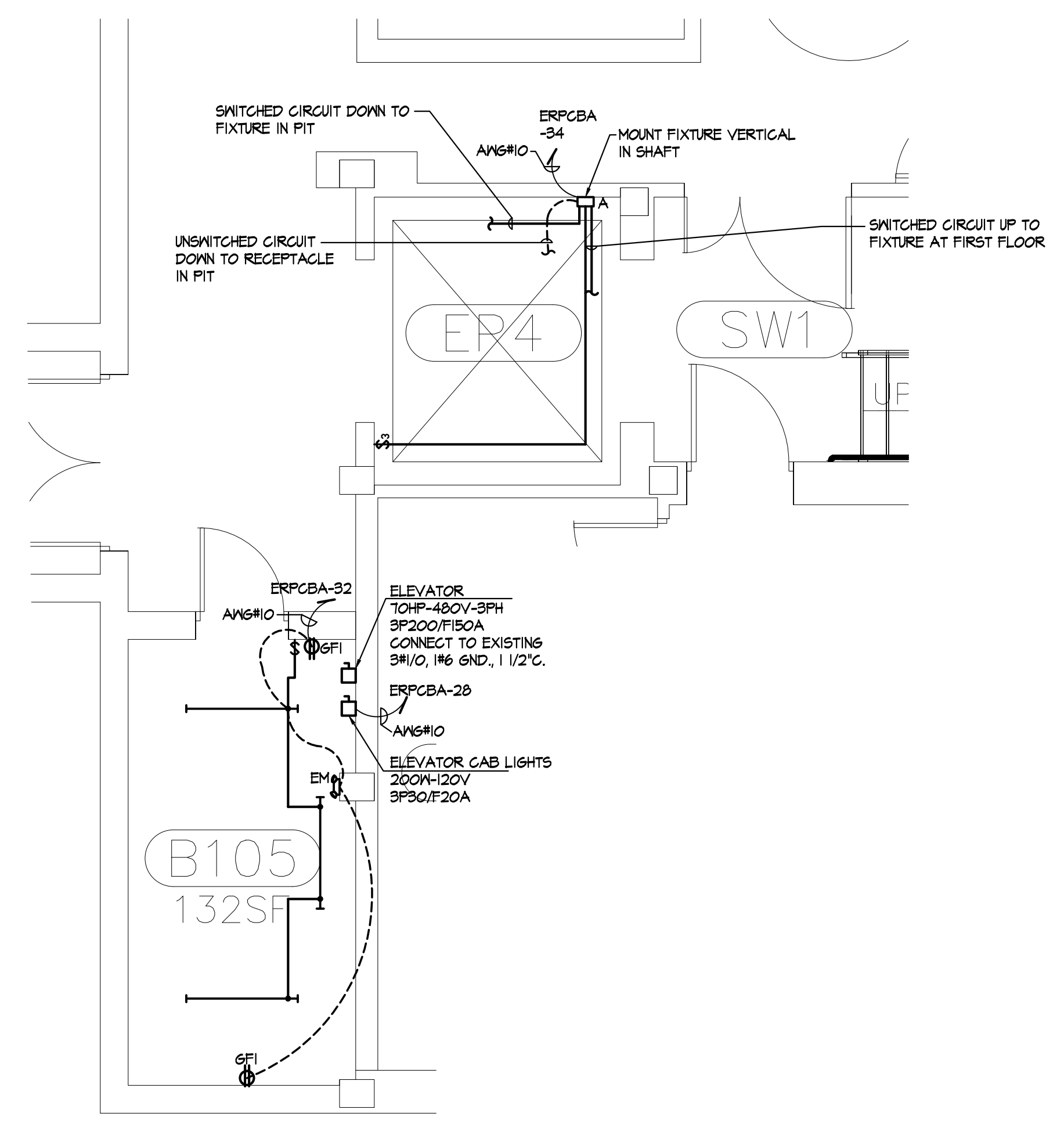
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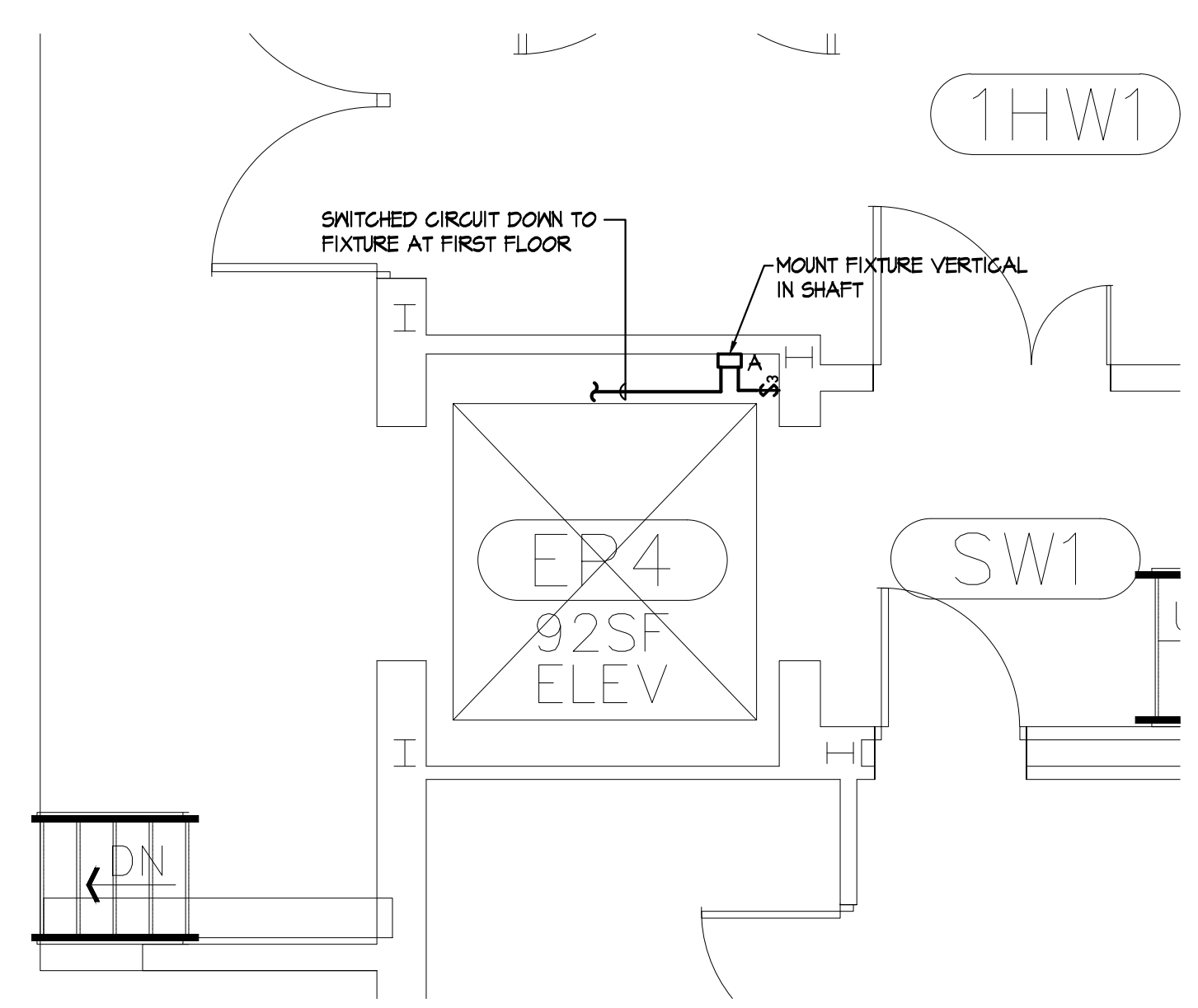
LEAD	T. Pacifico
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**ELECTRICAL DEMOLITION NOTES**

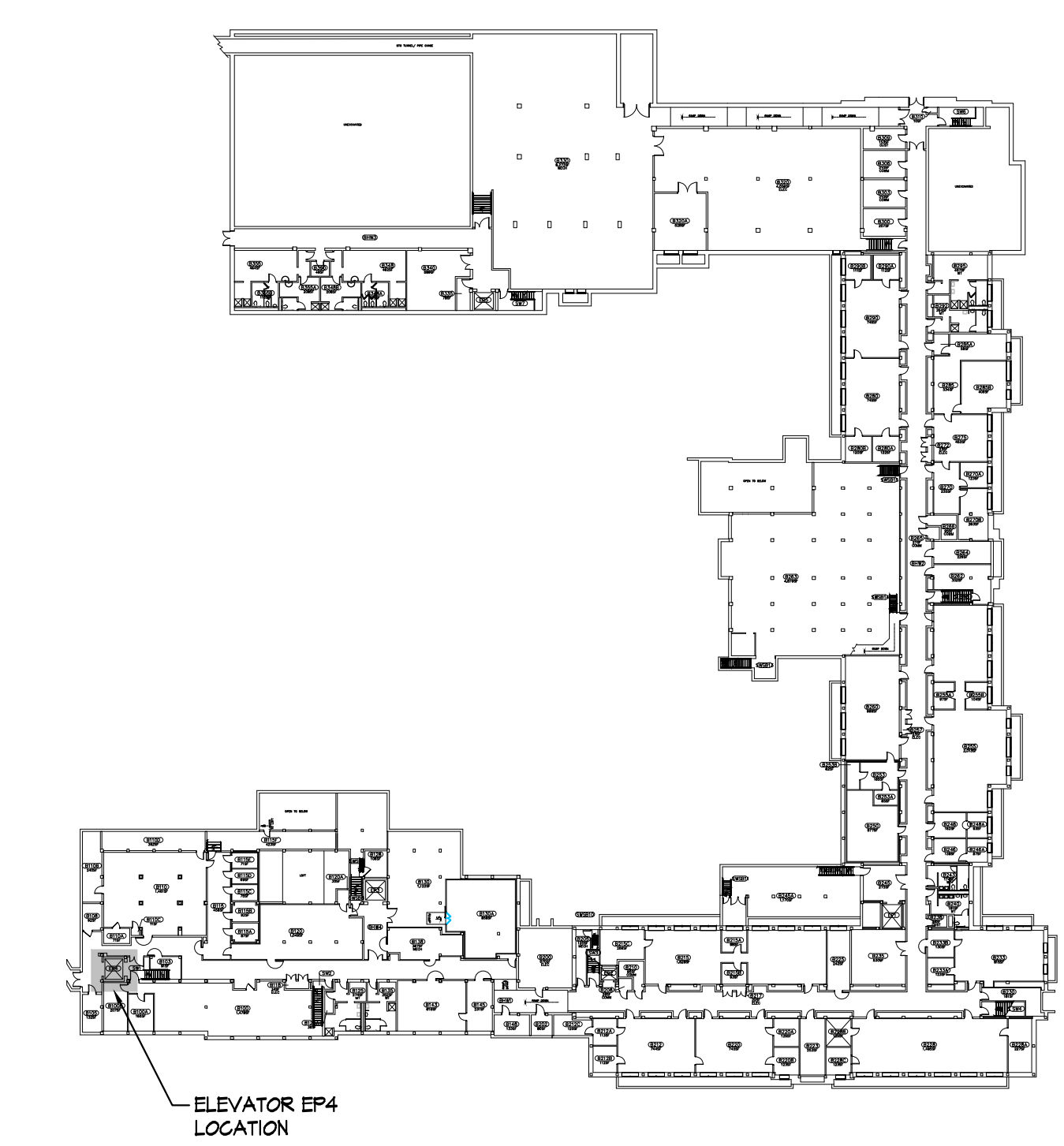
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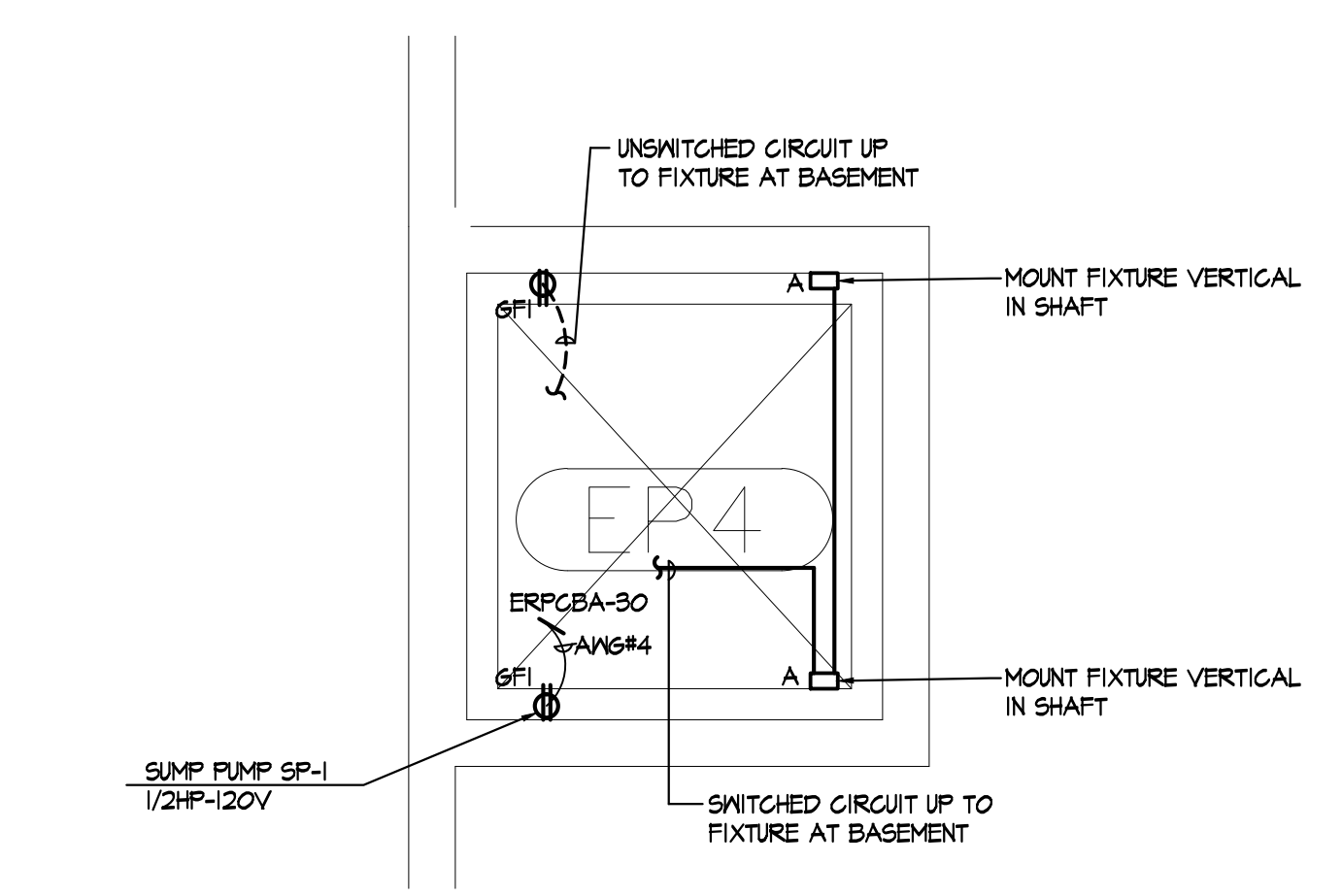
**ELEVATOR EP4 BASEMENT LEVEL  
 ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP4 FIRST FLOOR  
 ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP4  
 KEY PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



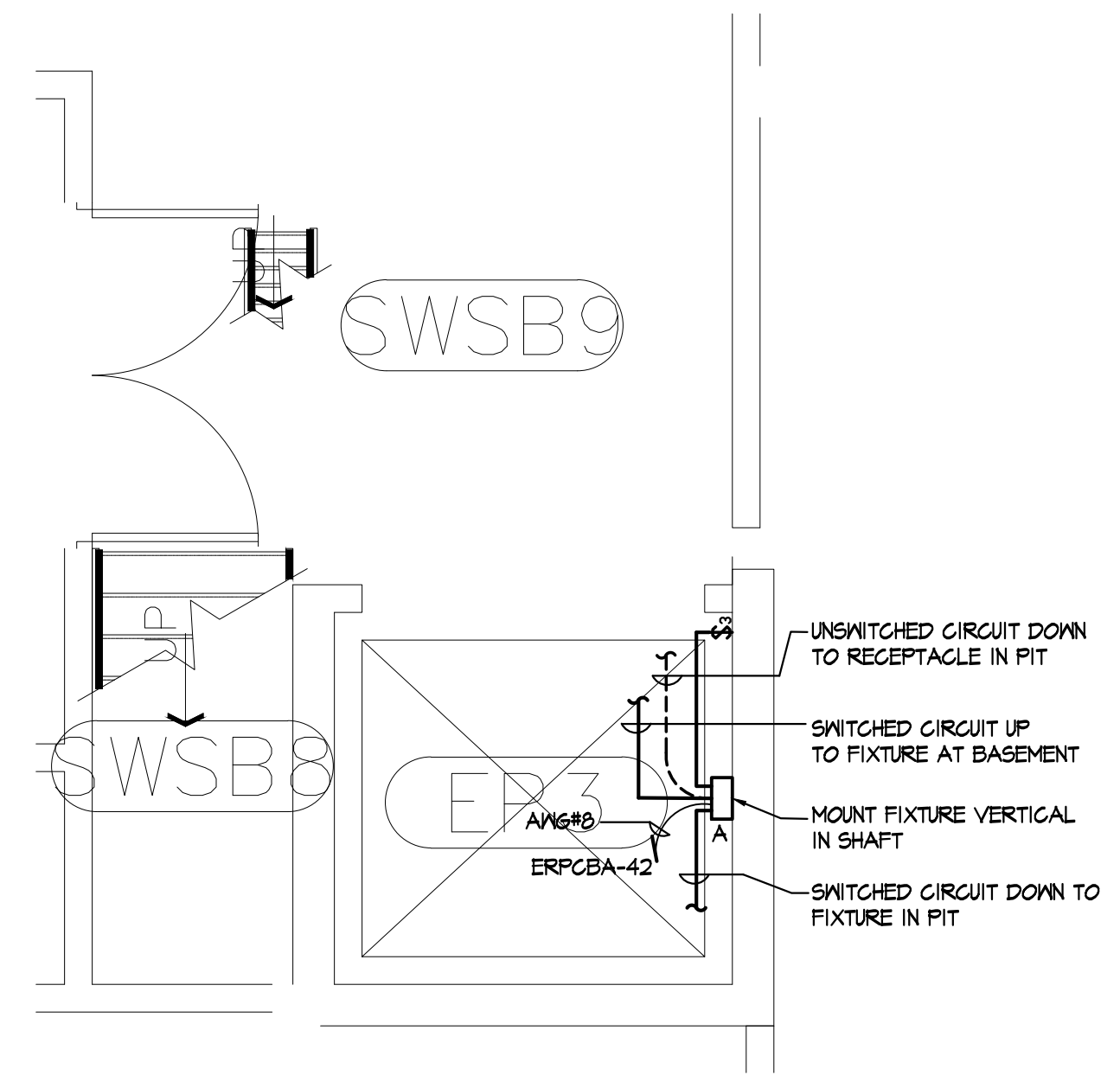
**ELEVATOR EP4 PIT LEVEL  
 ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

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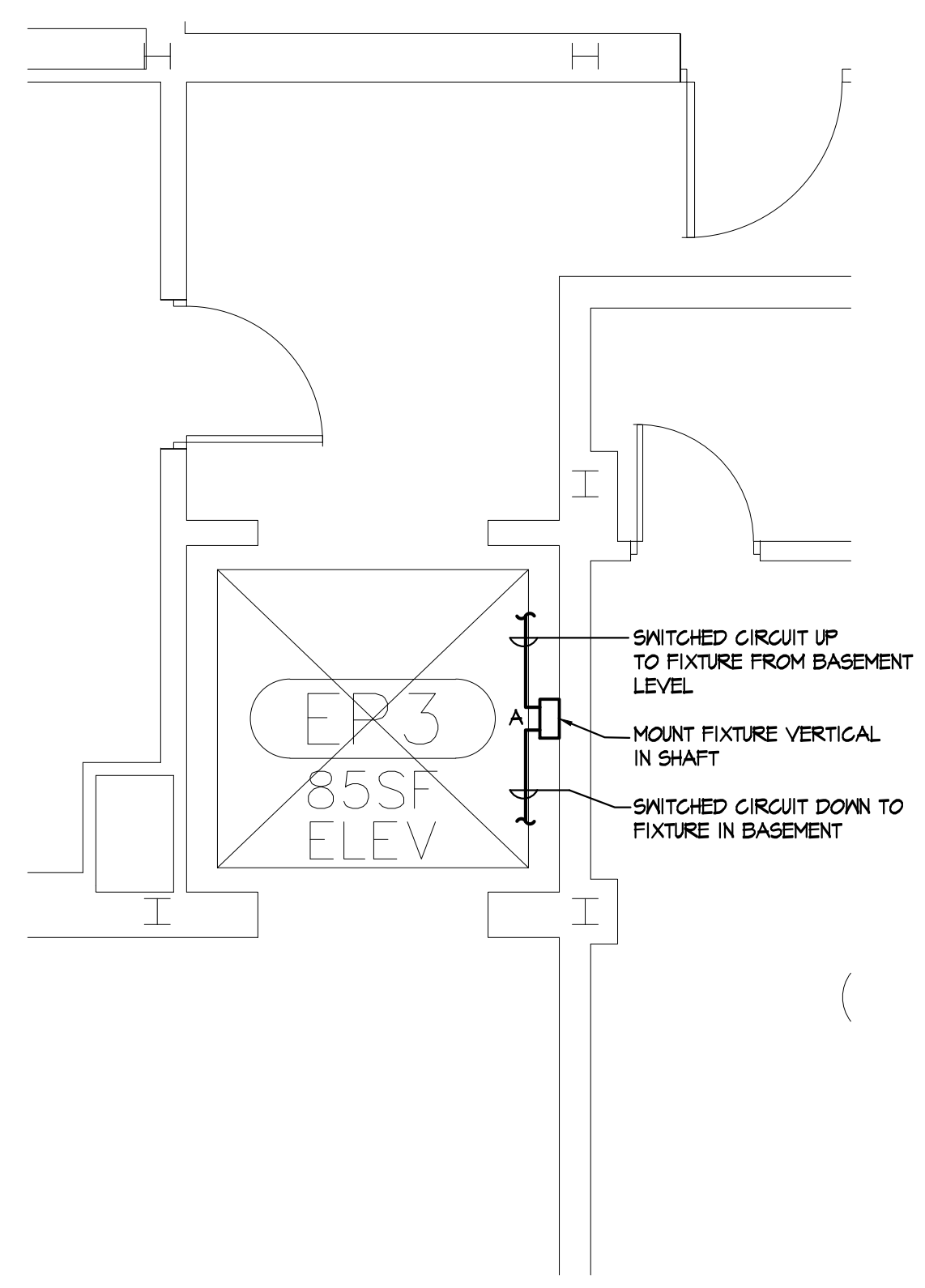
LEAD	T. Pacifico
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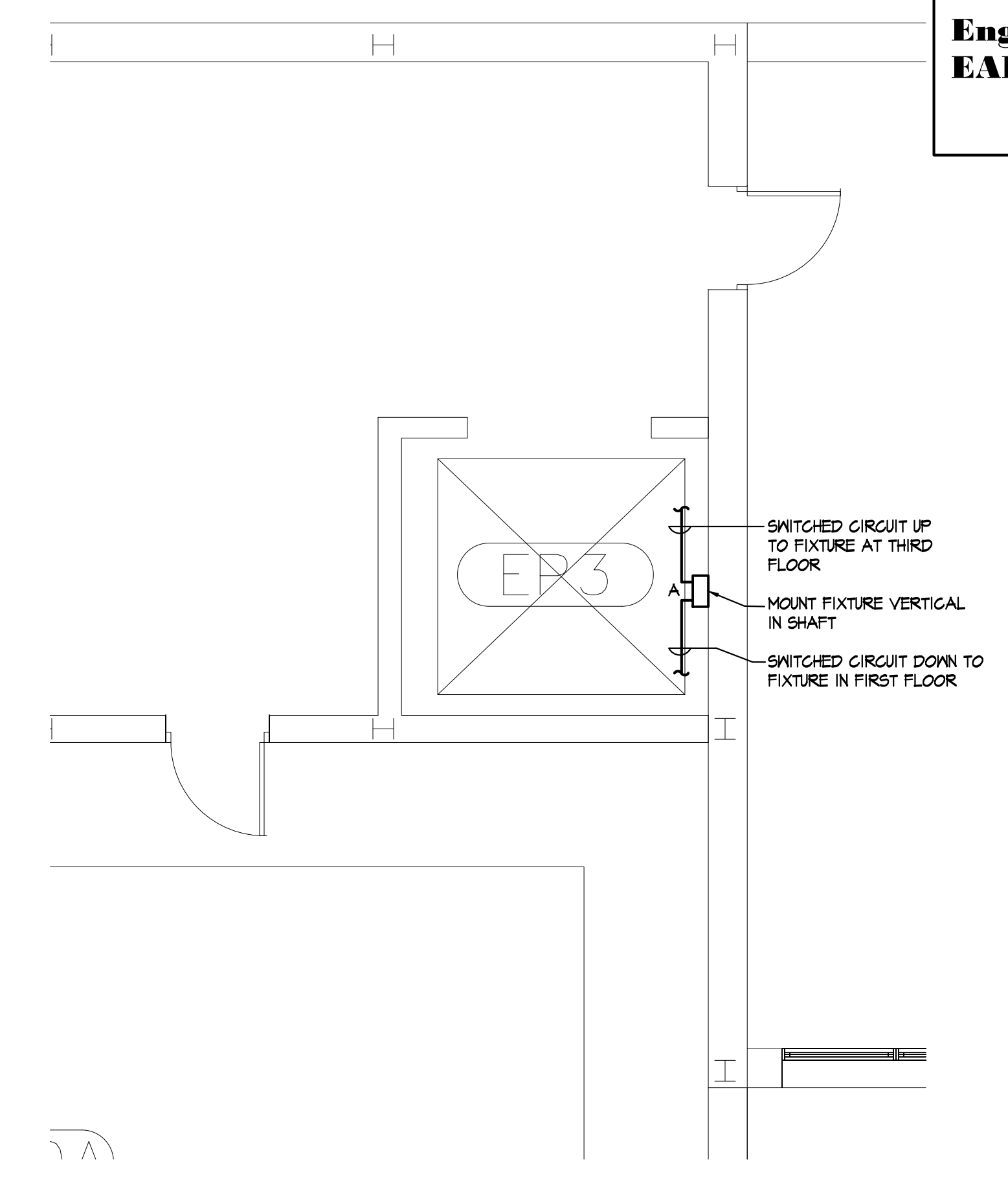
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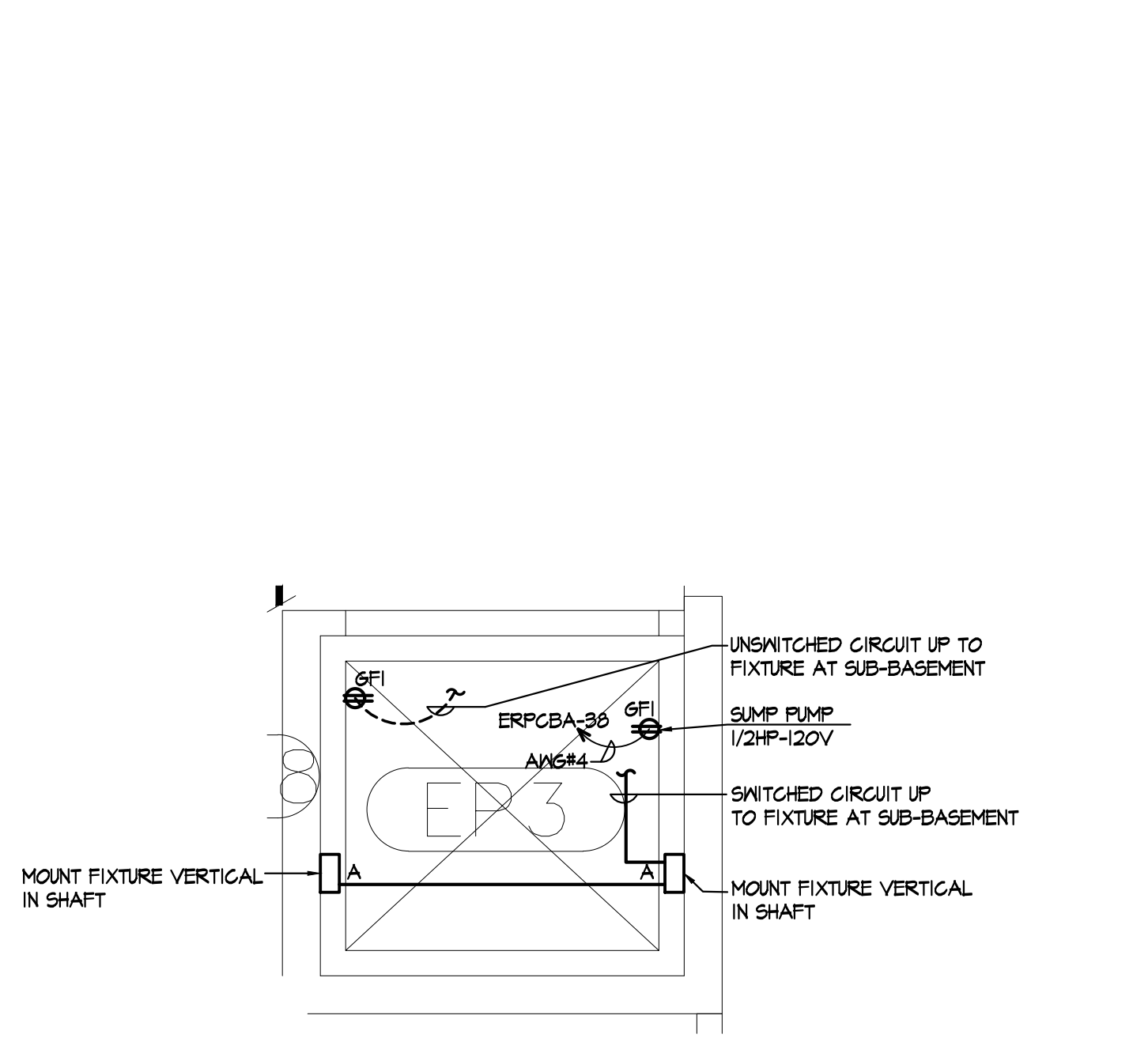
**ELEVATOR EP3 SUB BASEMENT ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



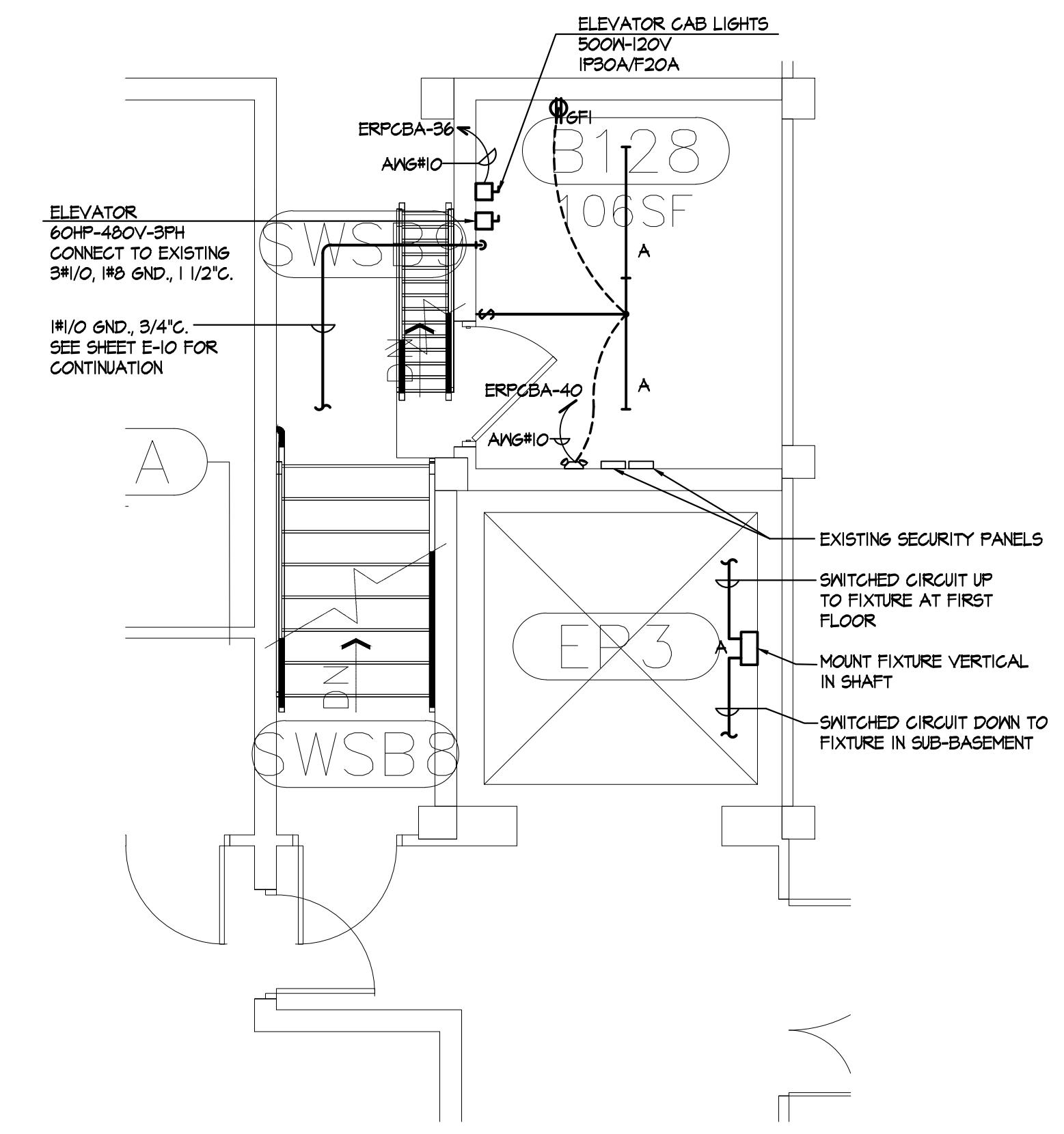
**ELEVATOR EP3 FIRST FLOOR ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



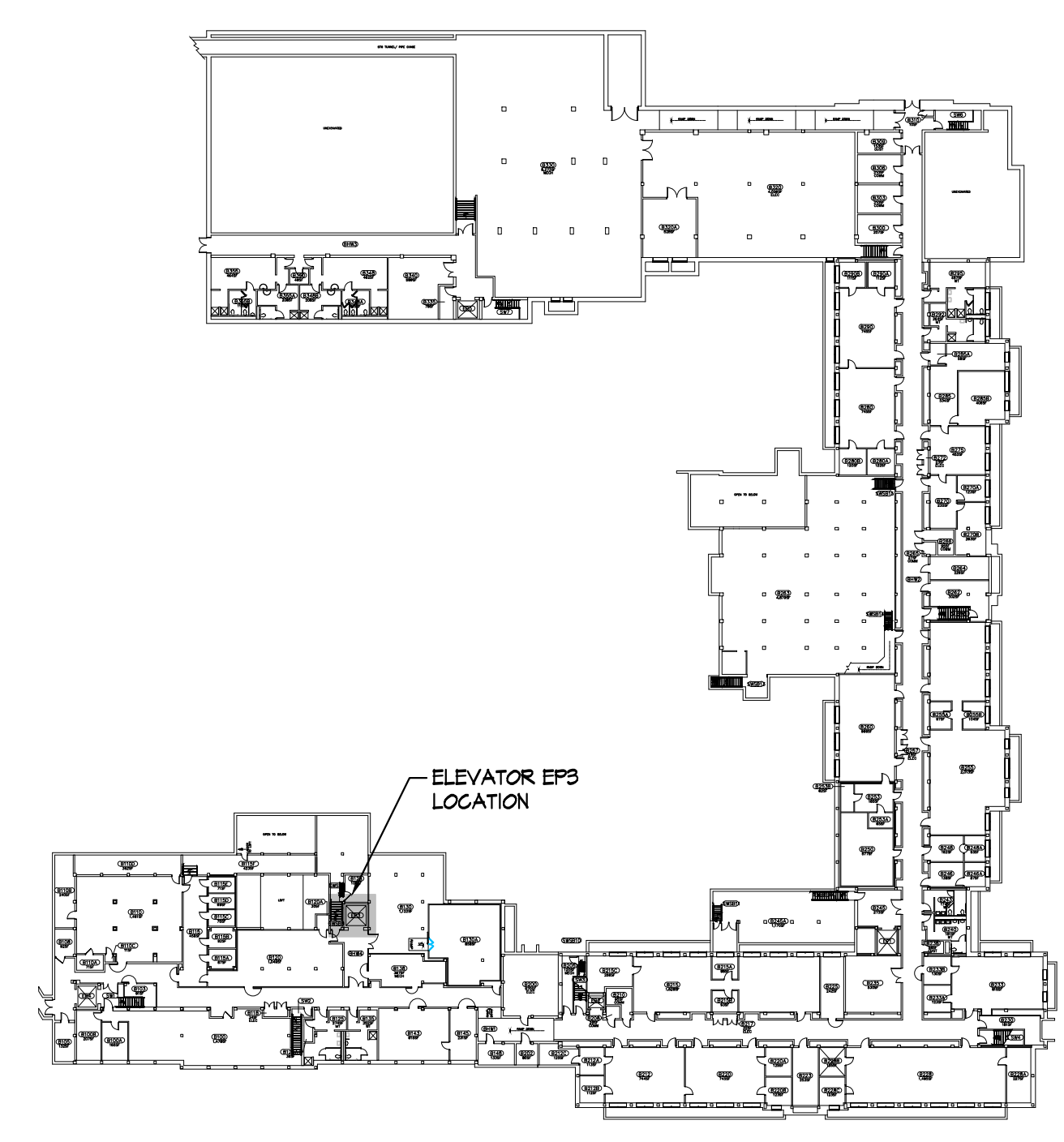
**ELEVATOR EP3 SECOND FLOOR ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP3 PIT LEVEL ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



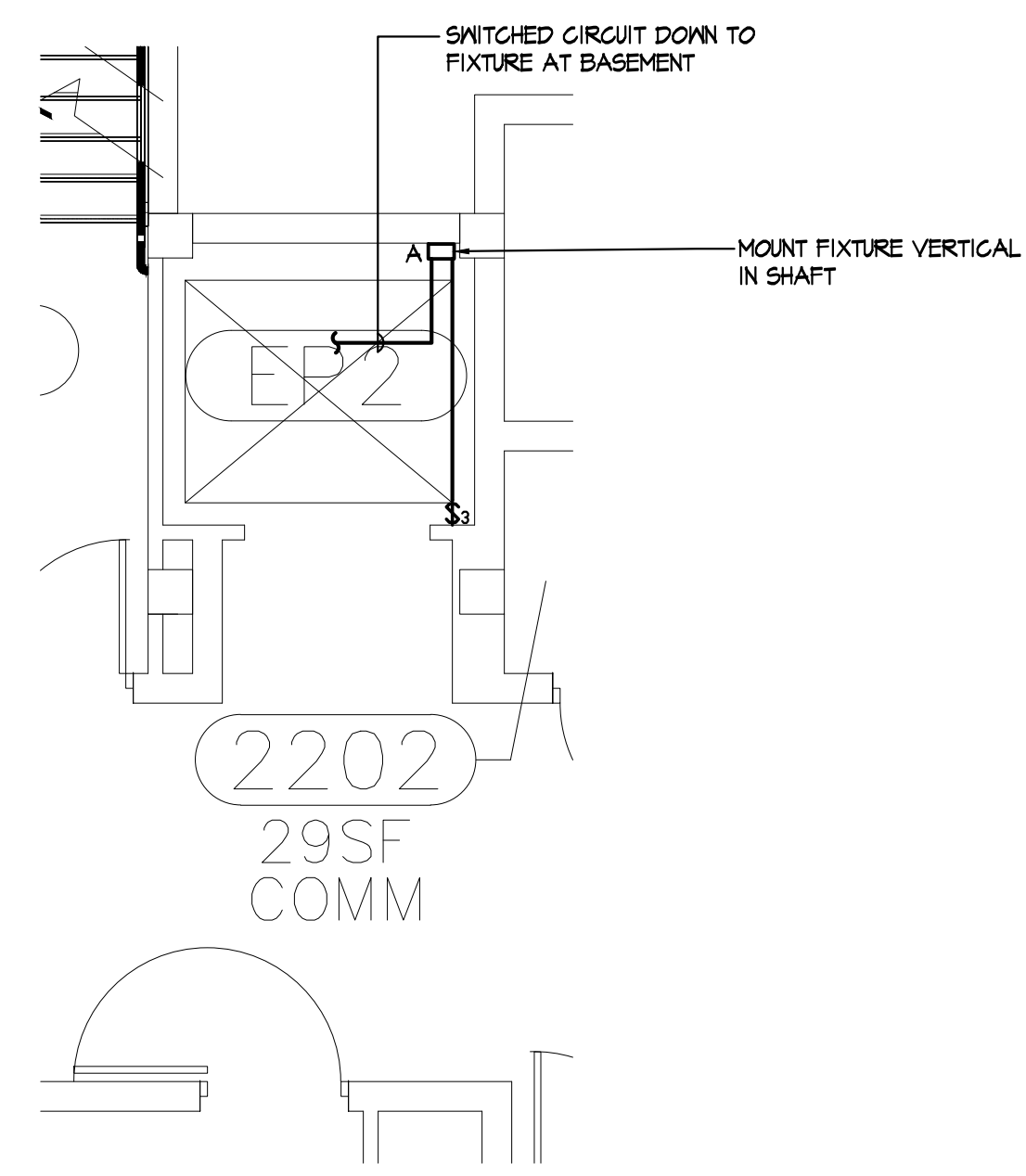
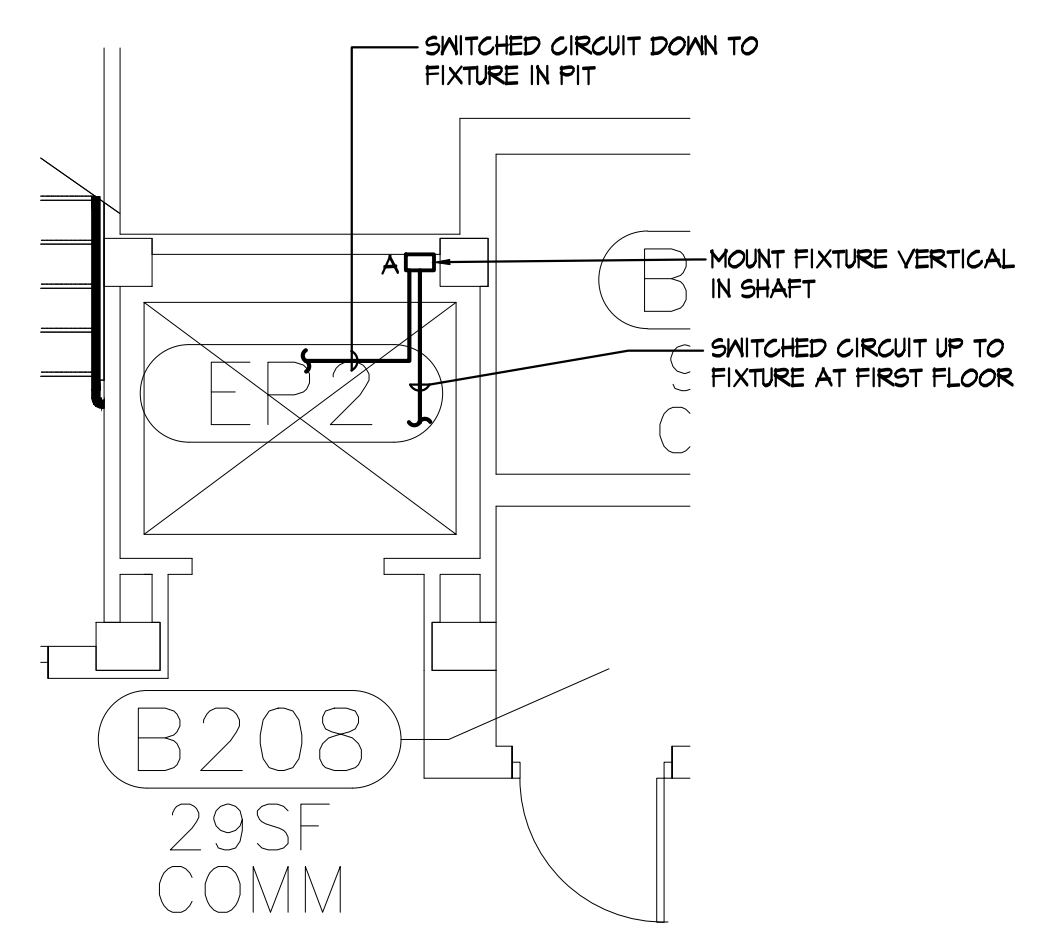
**ELEVATOR EP3 BASEMENT LEVEL ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP3 KEY PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

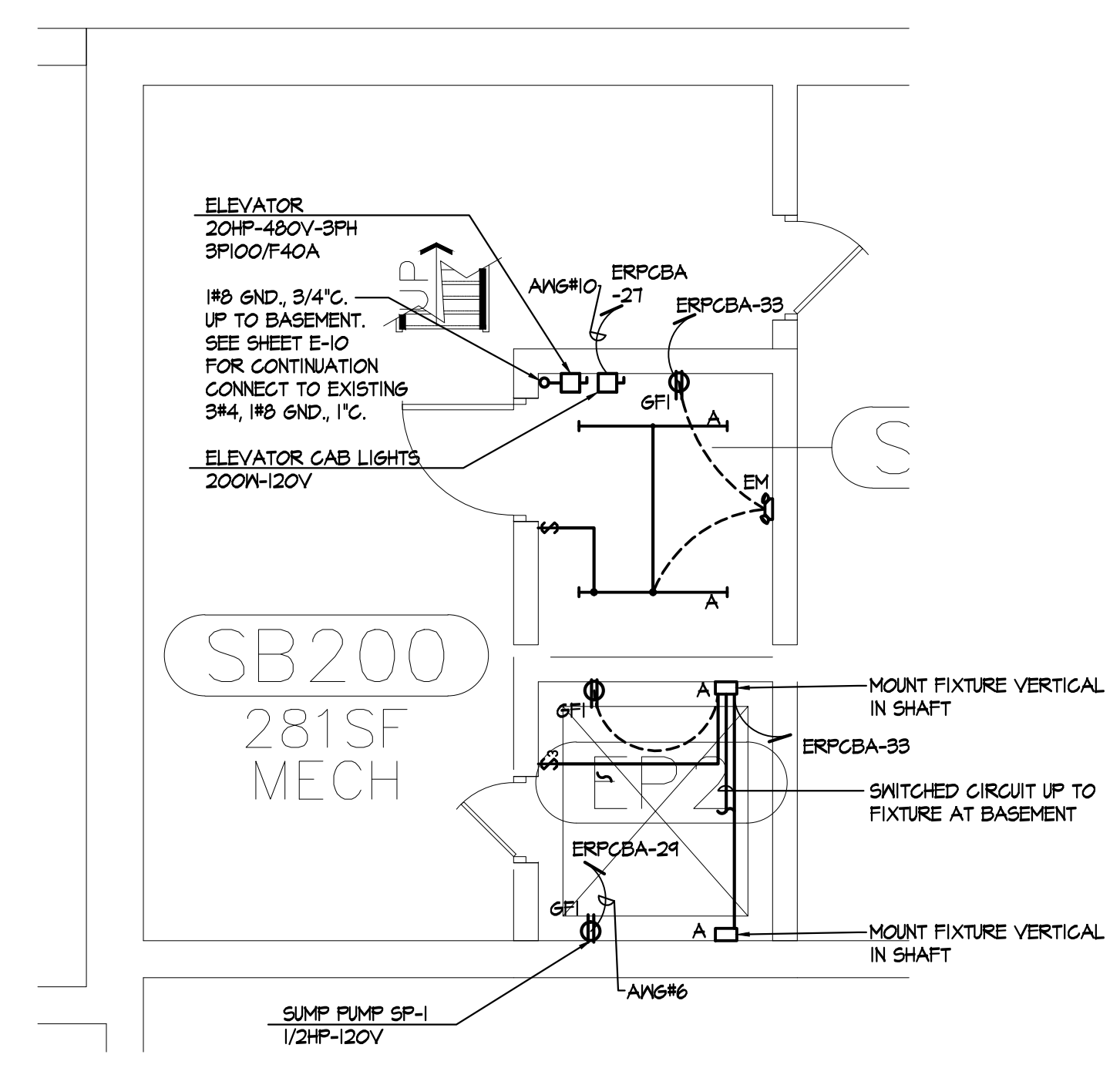
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  6. REMOVE EXISTING CAB LIGHTING DISCONNECT SWITCH, RACEWAY, AND WIRE BACK TO SOURCE.
  7. REMOVE EXISTING TANK HEATER DISCONNECT SWITCH, RACEWAY, AND WIRE BACK TO SOURCE.
  8. REMOVE EXISTING EMERGENCY LIGHT, RACEWAY, AND WIRE BACK TO SOURCE.
  9. EXISTING EXHAUST FAN AND THERMOSTAT TO REMAIN.

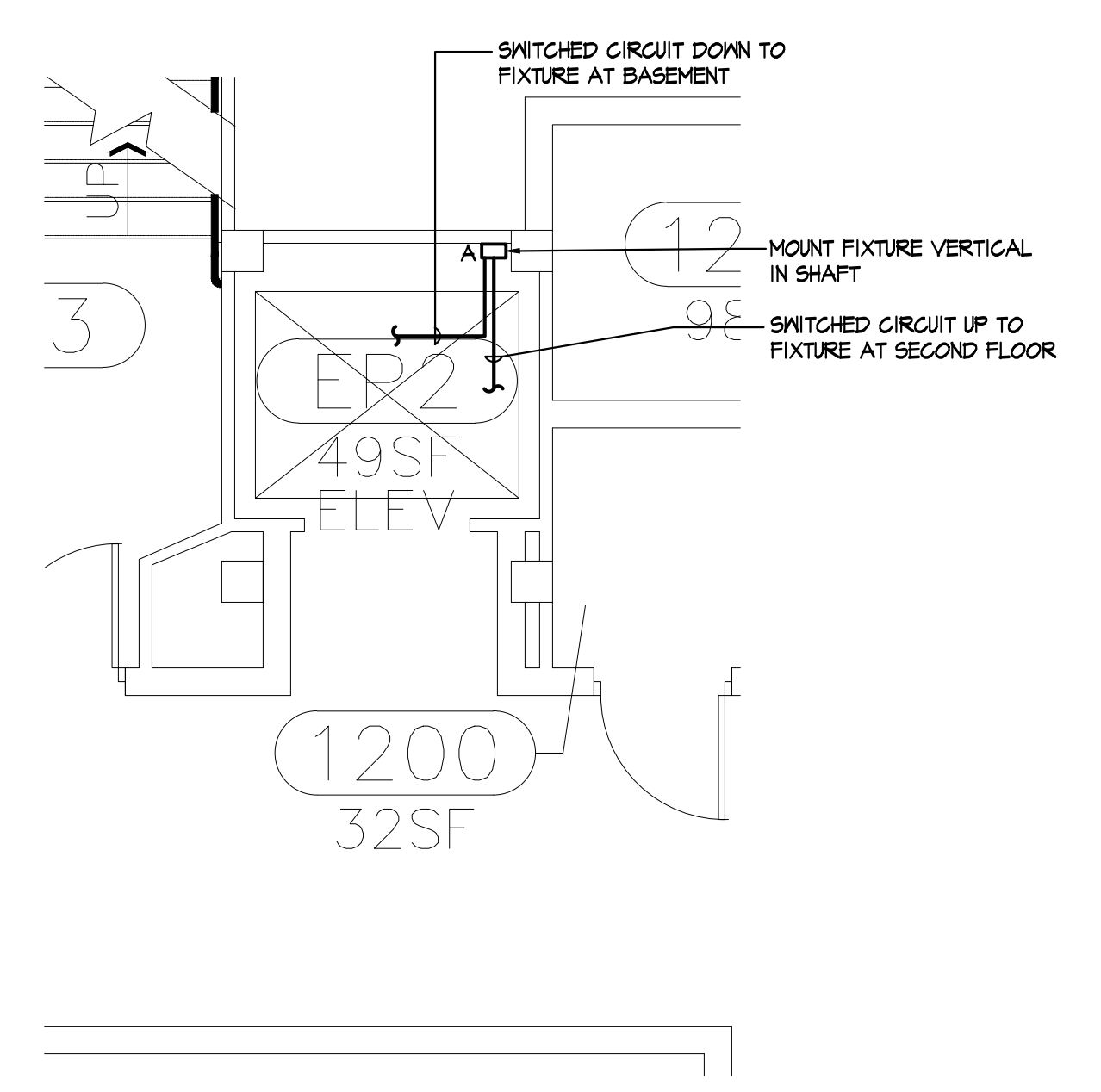


**ELEVATOR EP2 SECOND FLOOR ELECTRICAL PLAN**  
 SCALE: 1/4" = 1'-0"

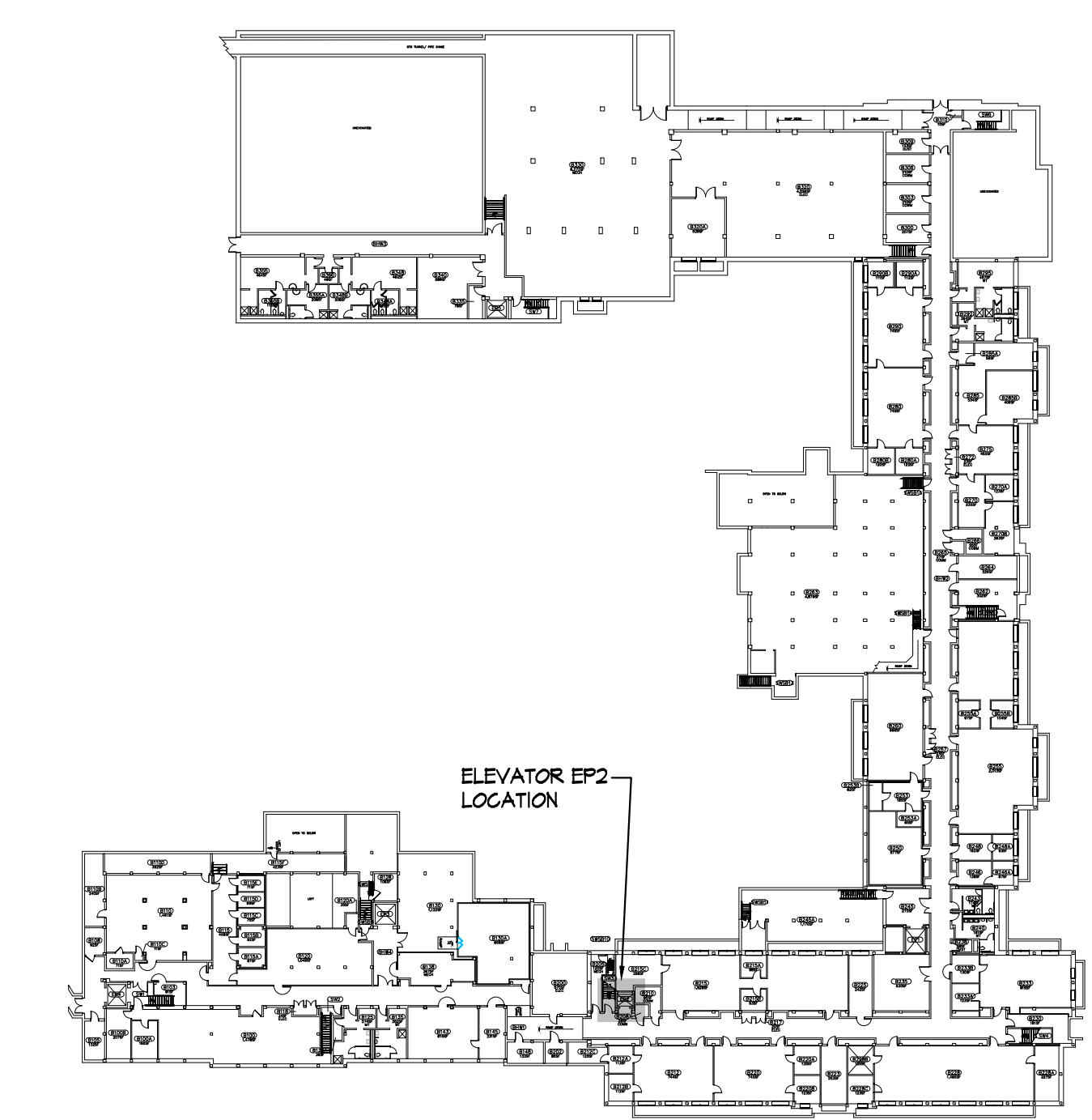
**ELEVATOR EP2 BASEMENT LEVEL ELECTRICAL PLAN**  
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**ELEVATOR EP2 PIT LEVEL ELECTRICAL PLAN**  
 SCALE: 1/4" = 1'-0"



**ELEVATOR EP2 FIRST FLOOR ELECTRICAL PLAN**  
 SCALE: 1/4" = 1'-0"



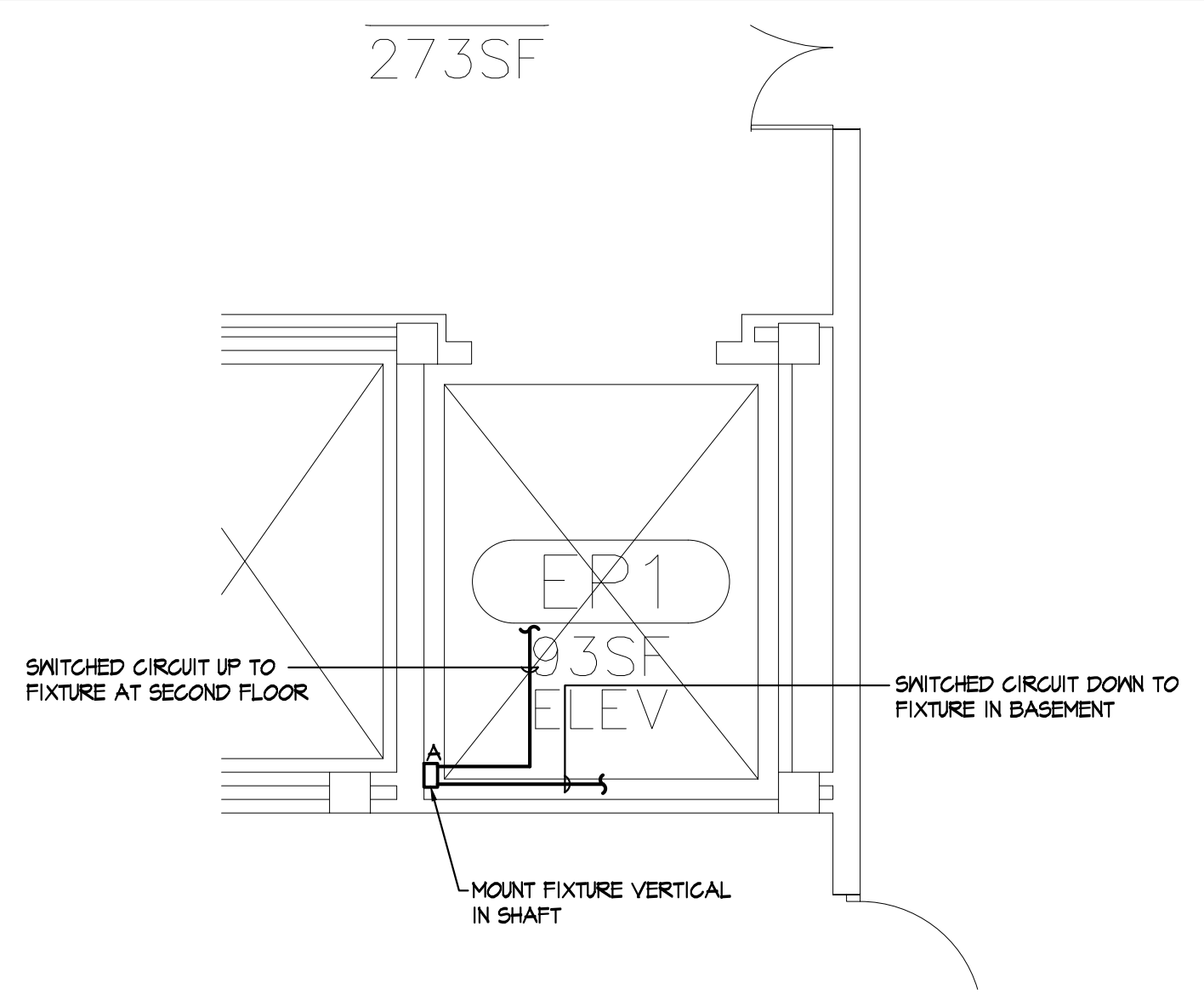
**ELEVATOR EP2 KEY PLAN**  
 SCALE: NONE

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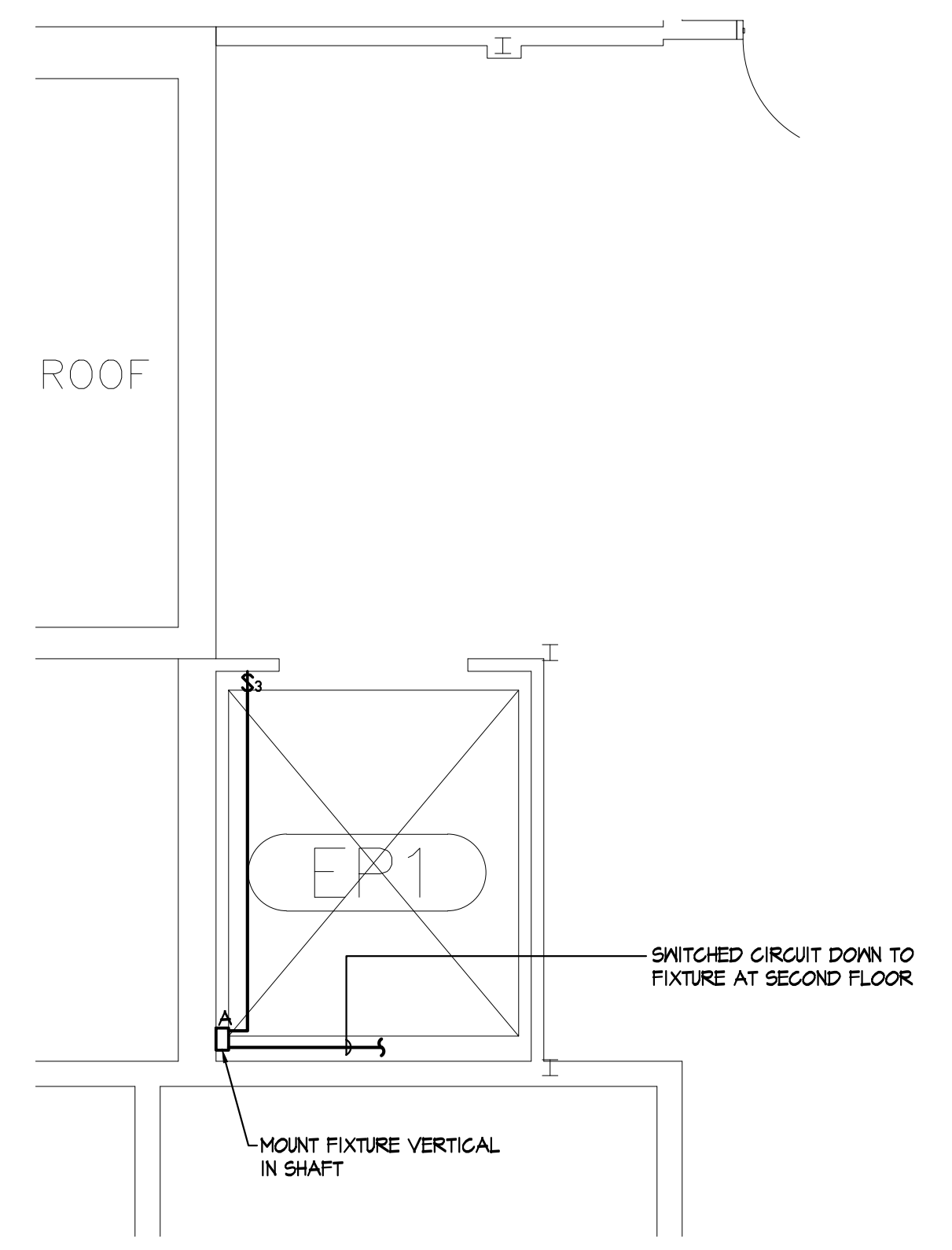
LEAD	T. Pacifico
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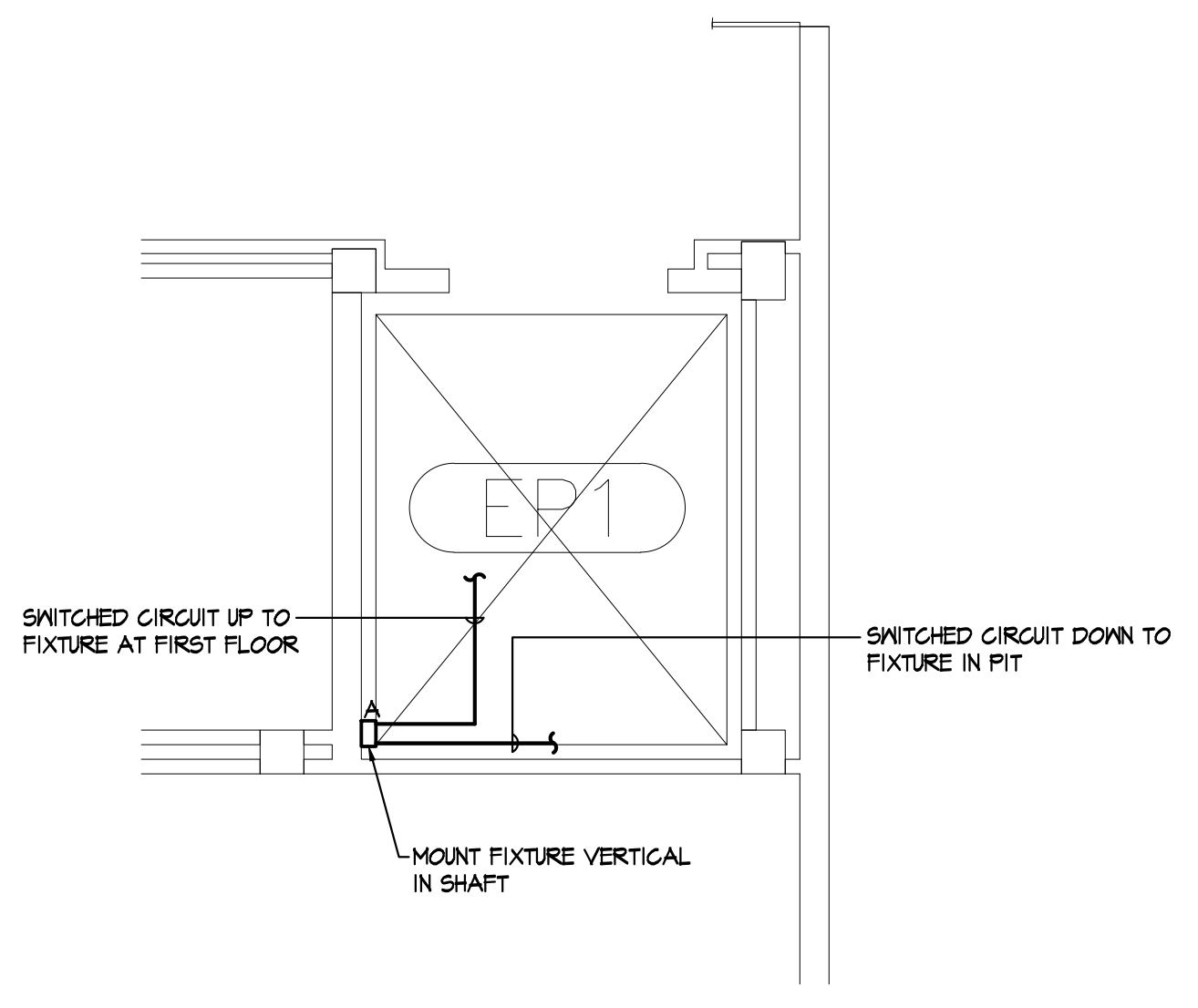
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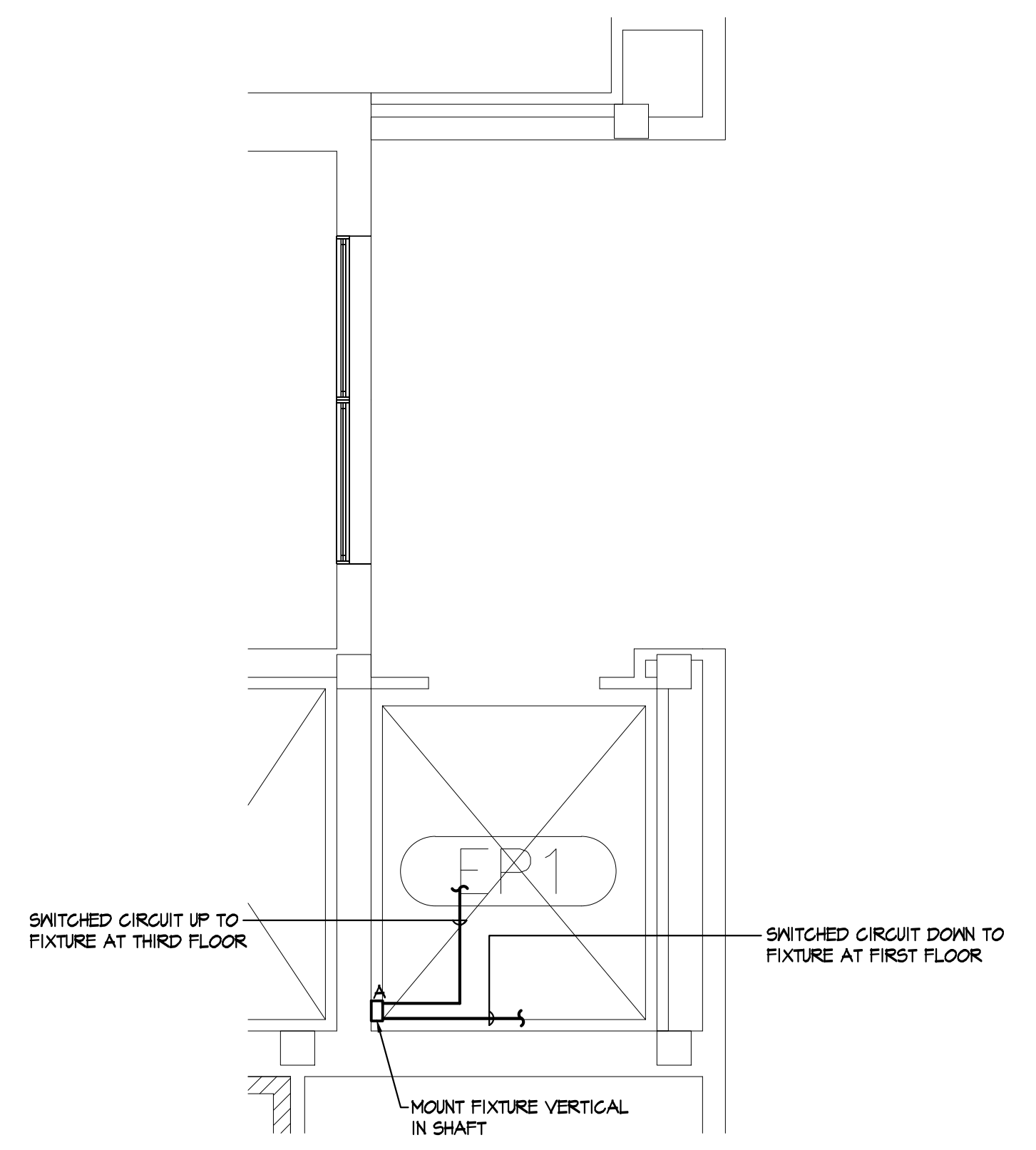
**ELEVATOR EPI FIRST FLOOR  
 ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



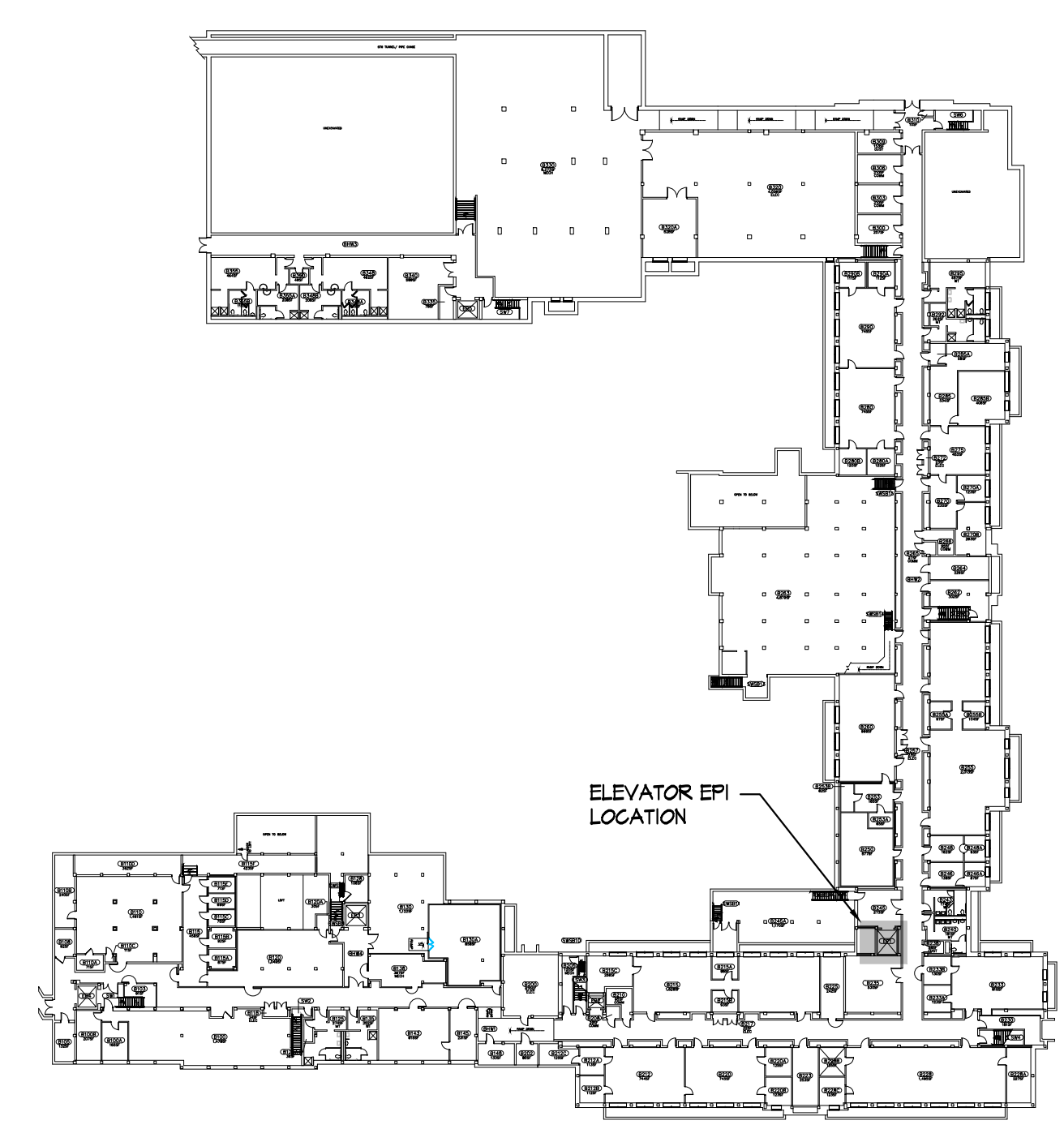
**ELEVATOR EPI THIRD FLOOR  
 ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



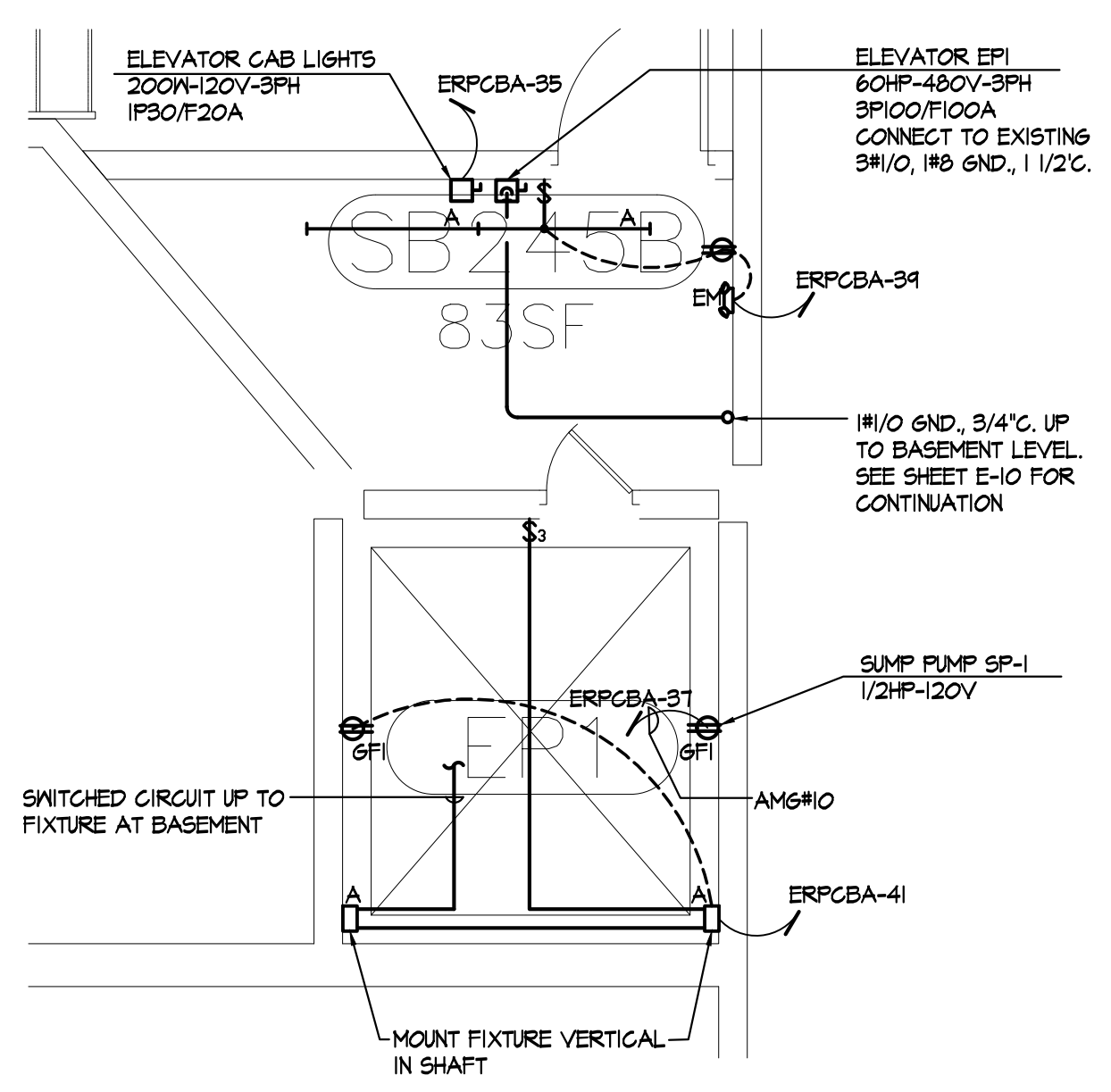
**ELEVATOR EPI BASEMENT LEVEL  
 ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



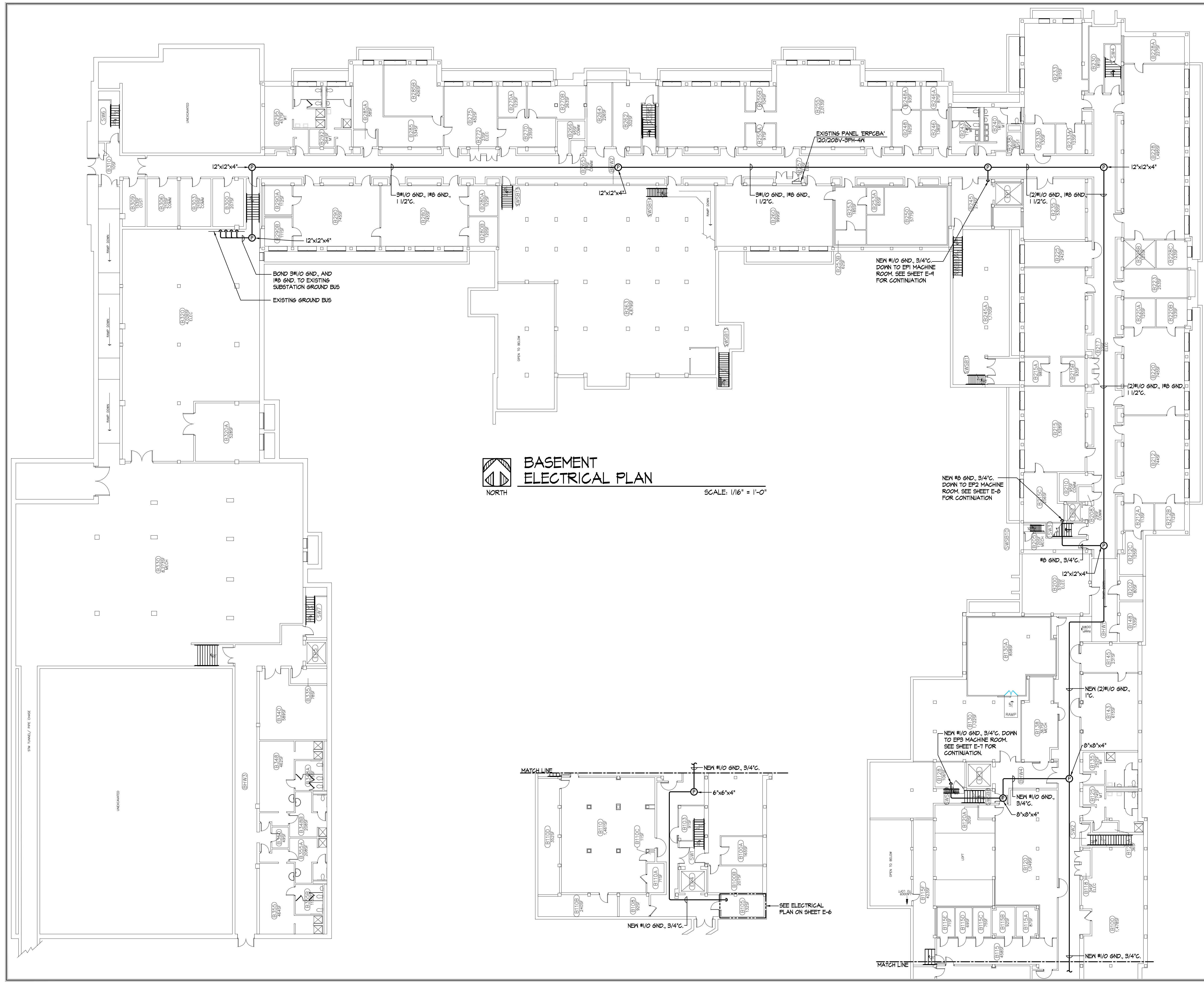
**ELEVATOR EPI SECOND FLOOR  
 ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EPI  
 KEY PLAN**  
 NORTH SCALE: NONE



**ELEVATOR EPI PIT LEVEL  
 ELECTRICAL PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

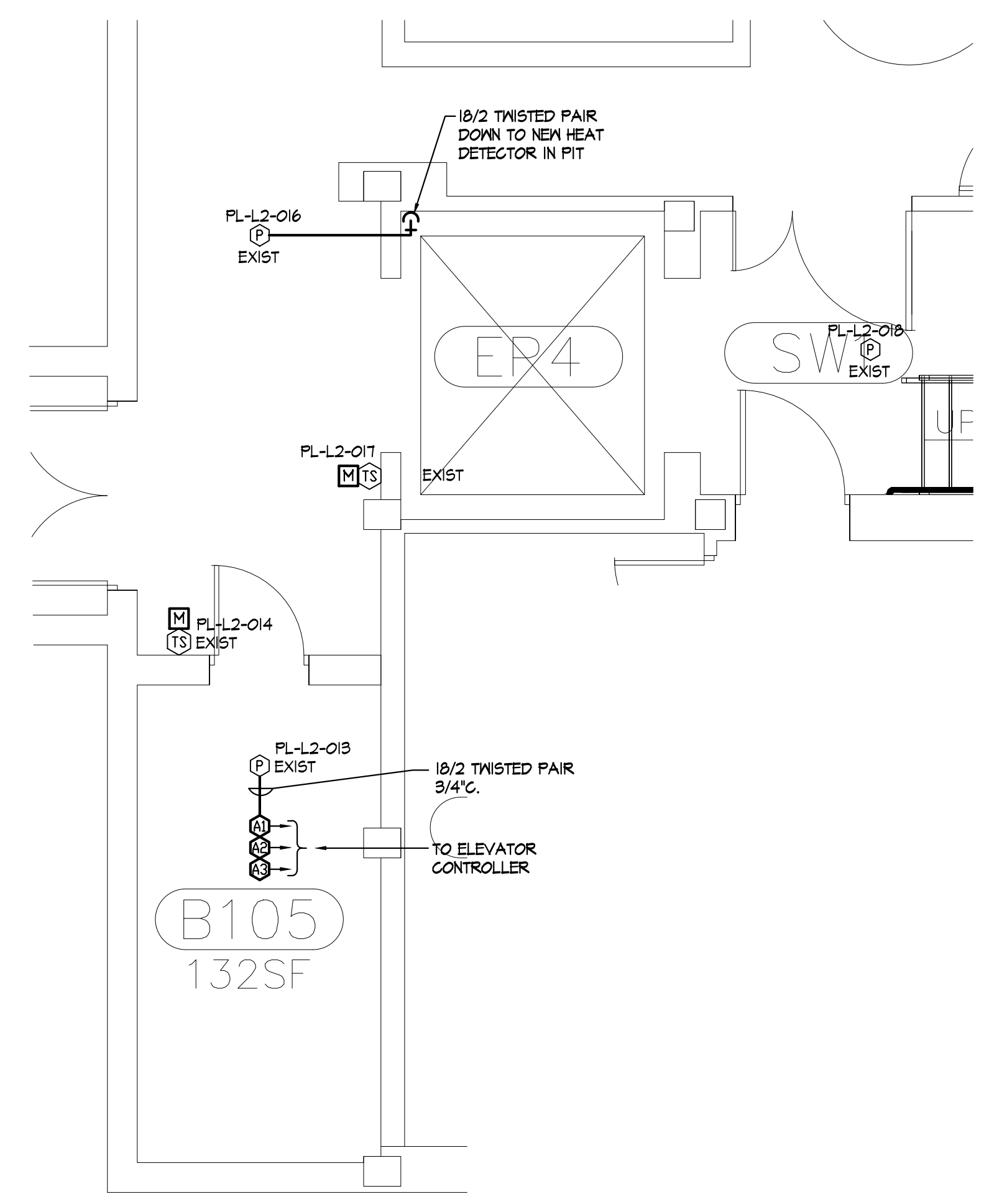


 **BASEMENT ELECTRICAL PLAN**  
 SCALE: 1/16" = 1'-0"

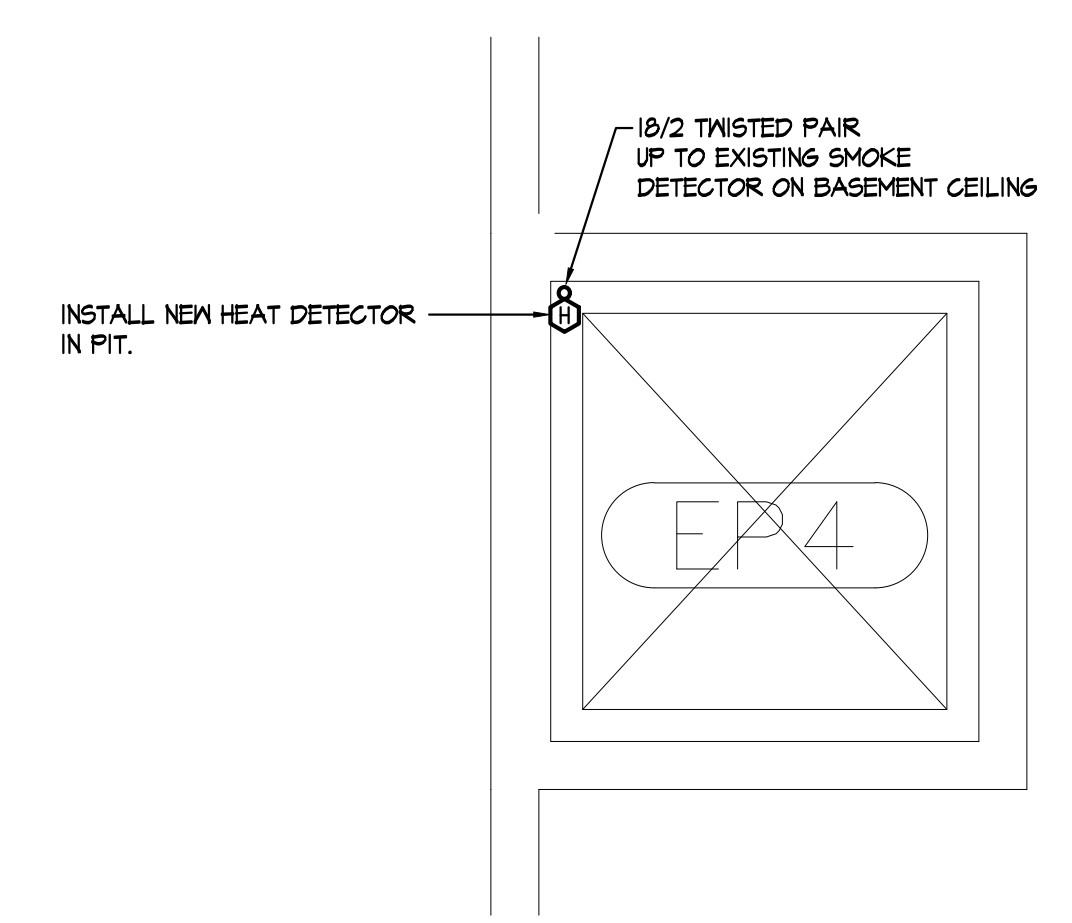
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ELEC.	K. Howard
CIVIL	
L.A.	
INT.DES	
CONST REP	T. PACIFICO
APPR.	J. Bonk
DATE	9/27/2023
SCALE	AS NOTED
REVISIONS	
RELEASED FOR BIDS	

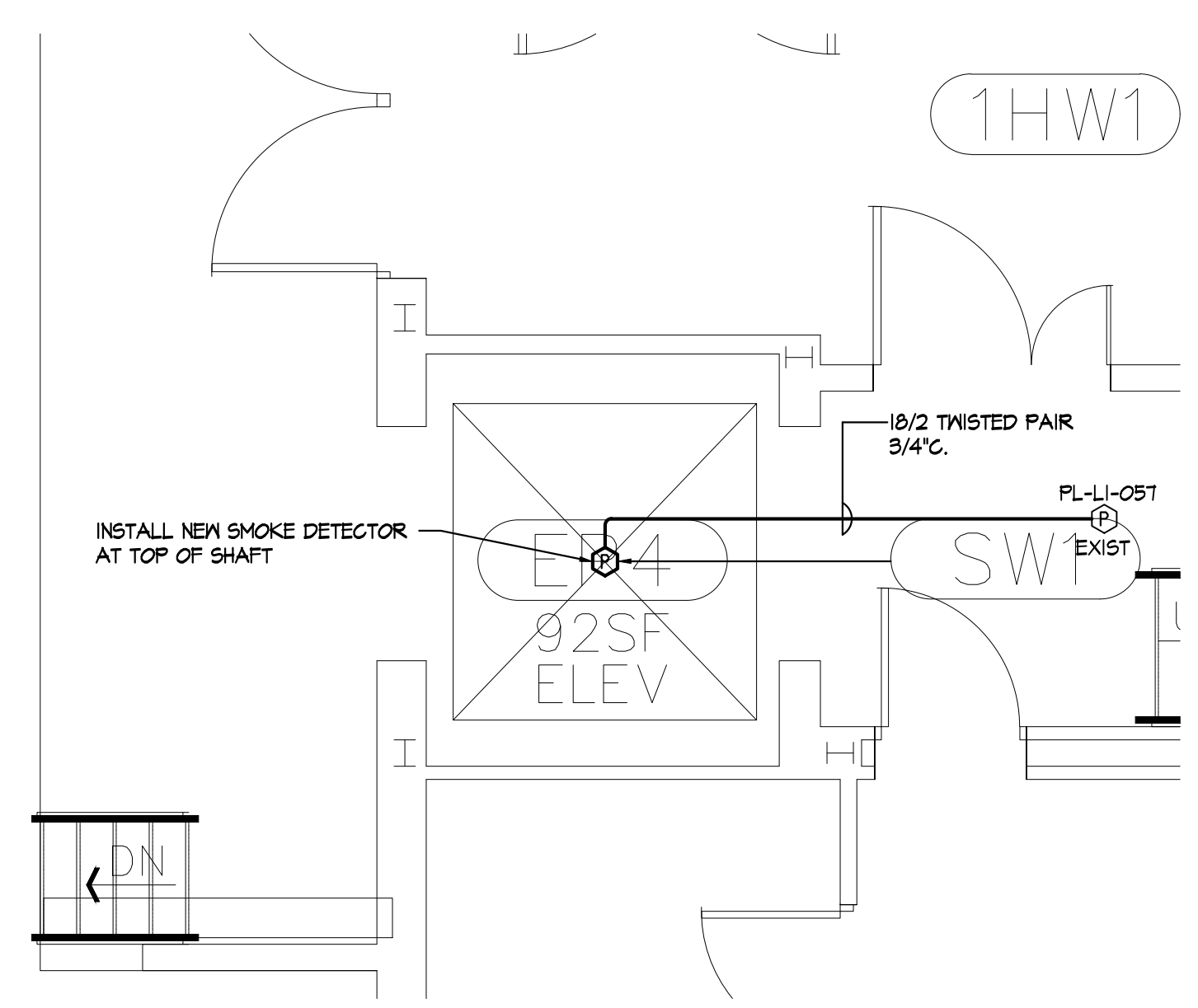
FIRE ALARM SYMBOLS	
	SMOKE DETECTOR
	FIRE ALARM RELAY
	TAMPER SWITCH
	JUNCTION BOX
	HEAT DETECTOR



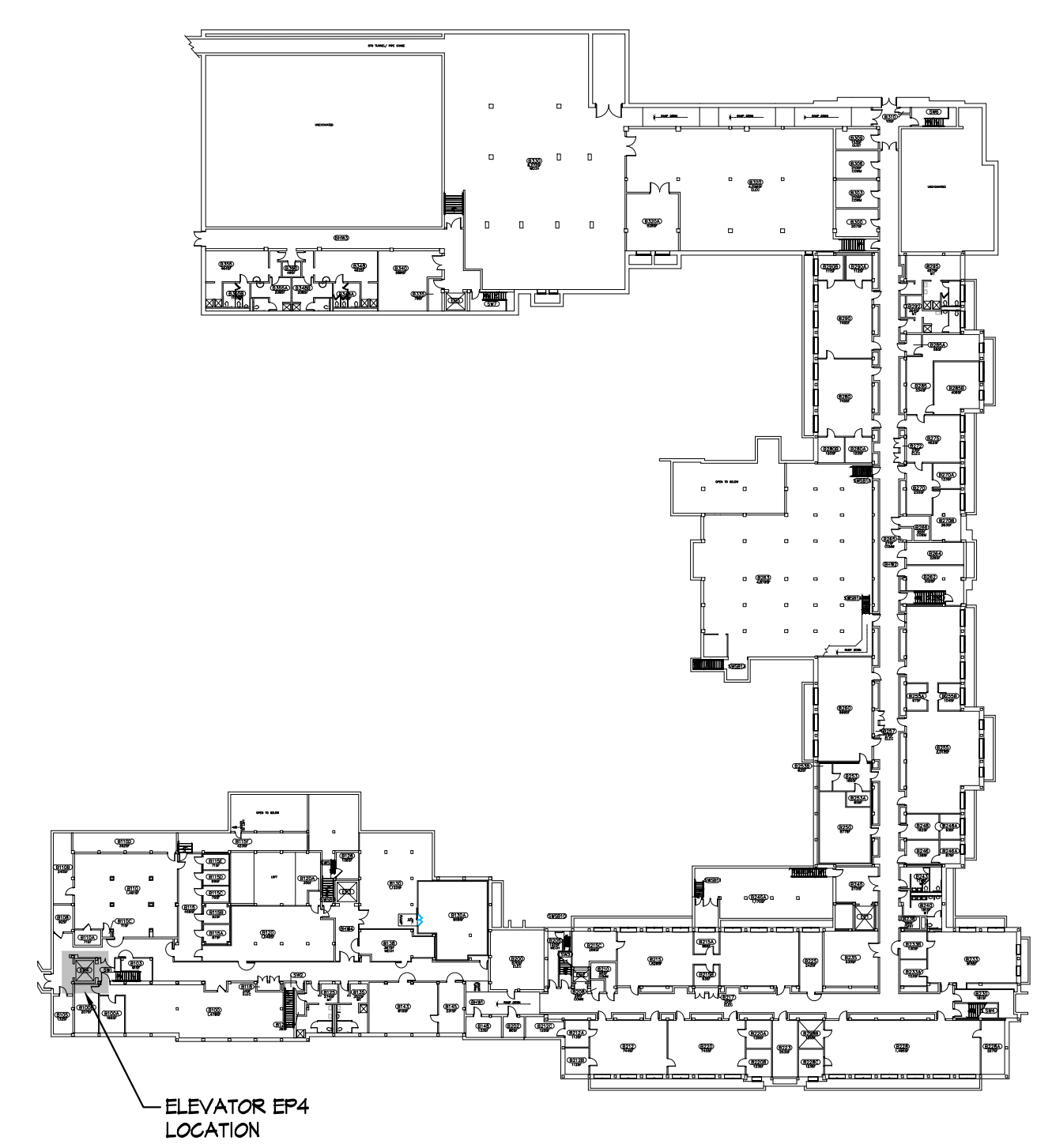
**ELEVATOR EP4 BASEMENT LEVEL FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP4 PIT LEVEL FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP4 FIRST FLOOR FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP4 KEY PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

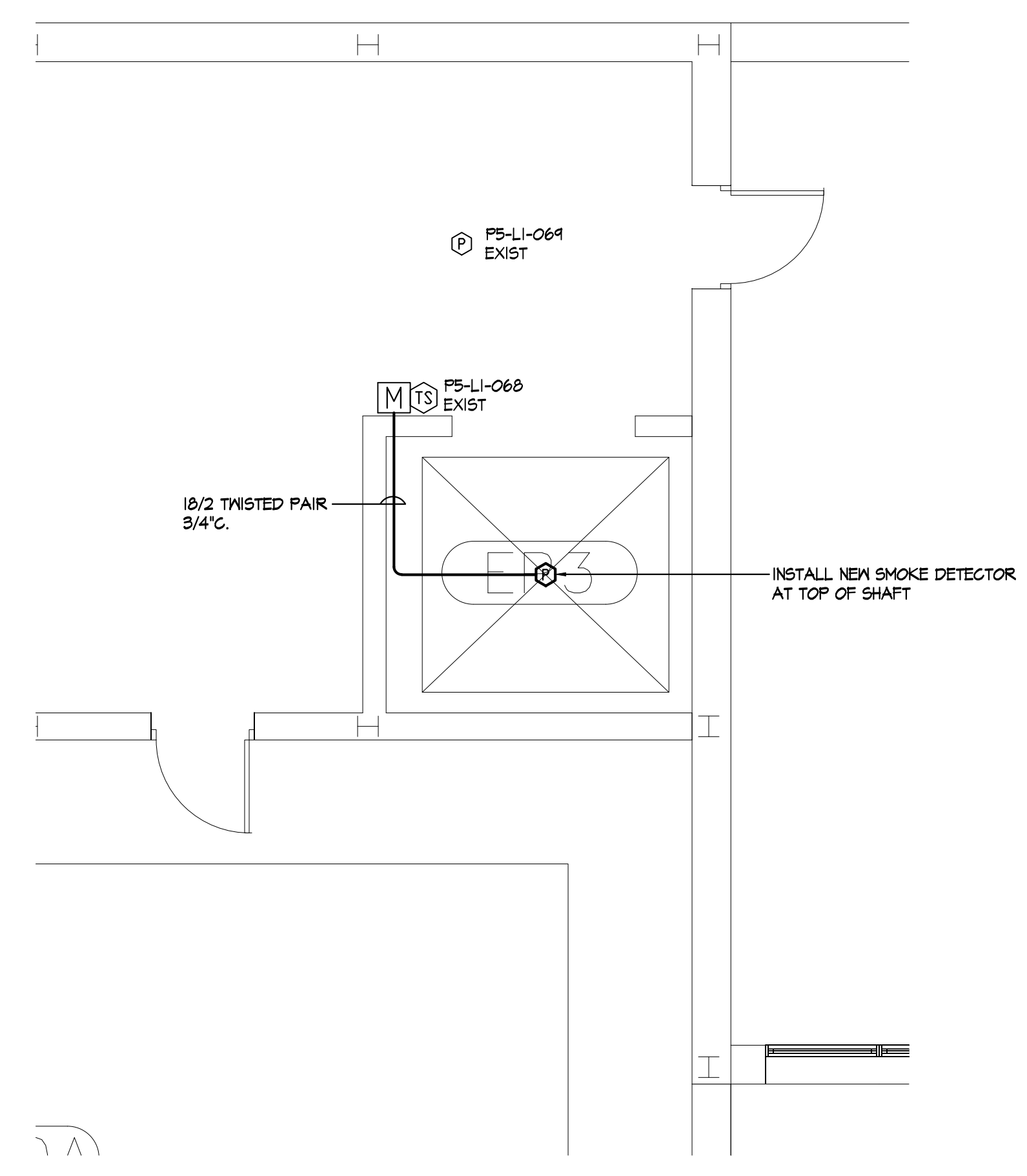
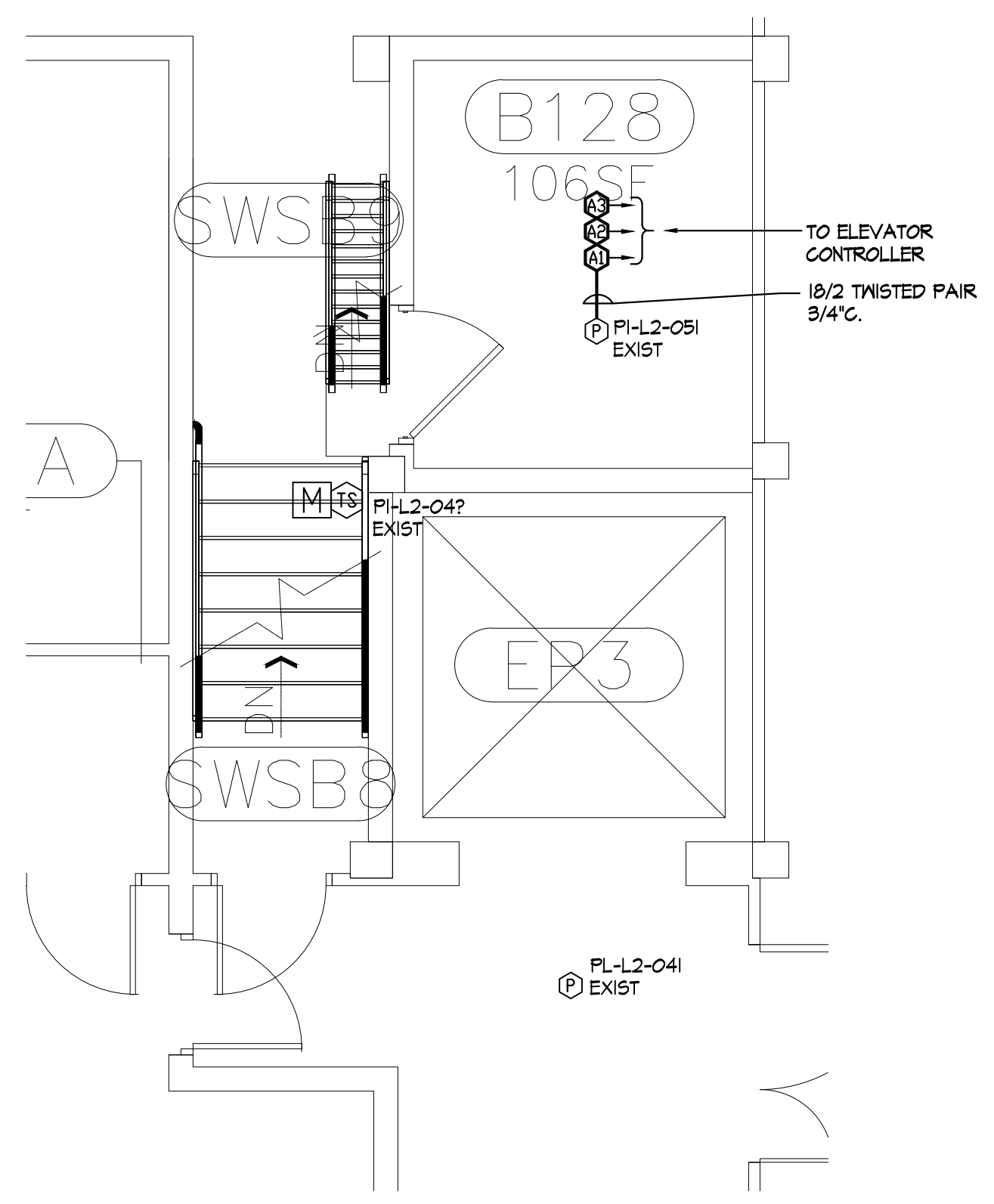
**ANTHONY HALL**  
 REPLACE ELEVATORS 1, 2, 3 AND 4

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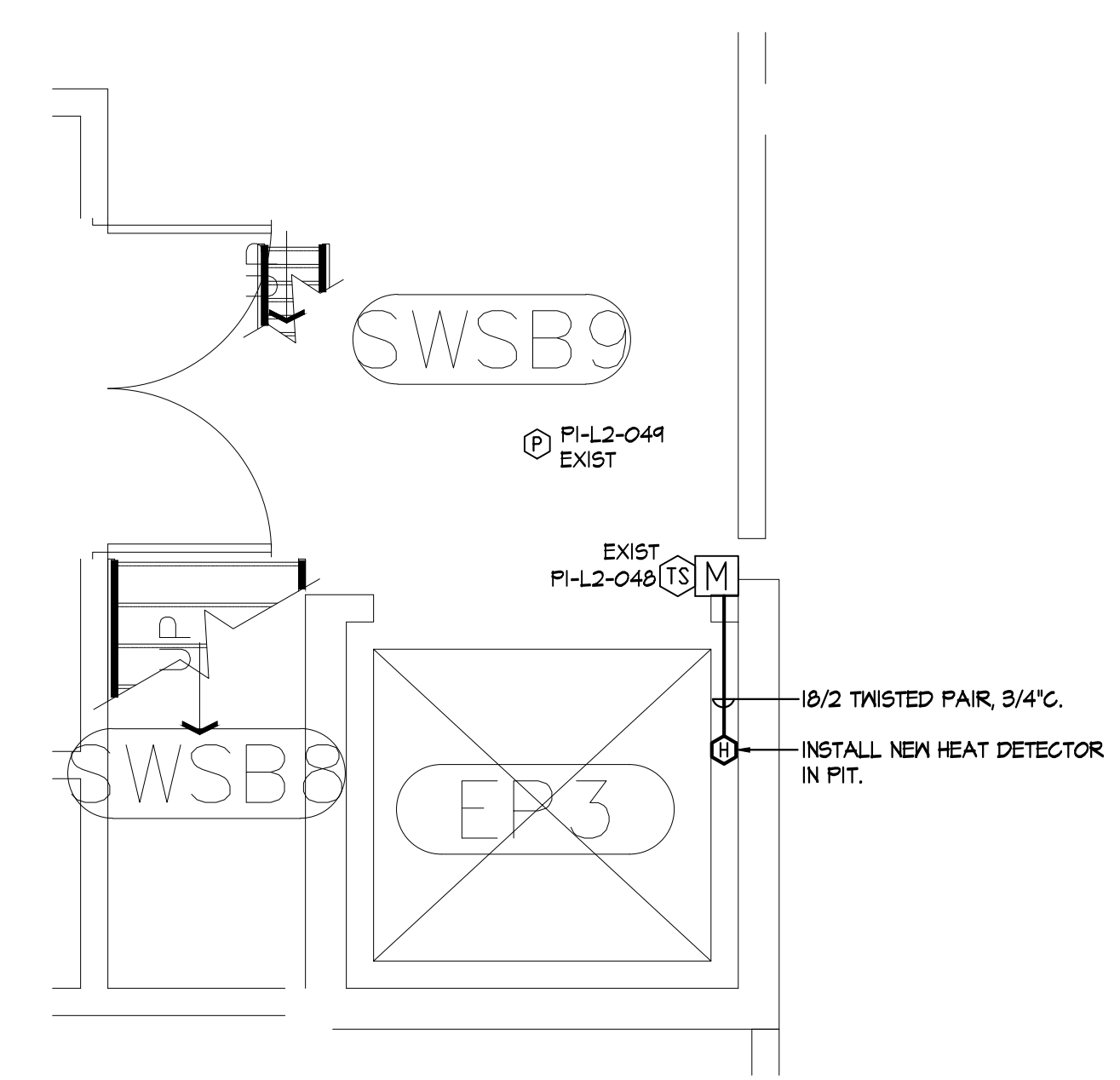


FIRE ALARM SYMBOLS	
	SMOKE DETECTOR
	FIRE ALARM RELAY
	TAMPER SWITCH
	JUNCTION BOX
	HEAT DETECTOR

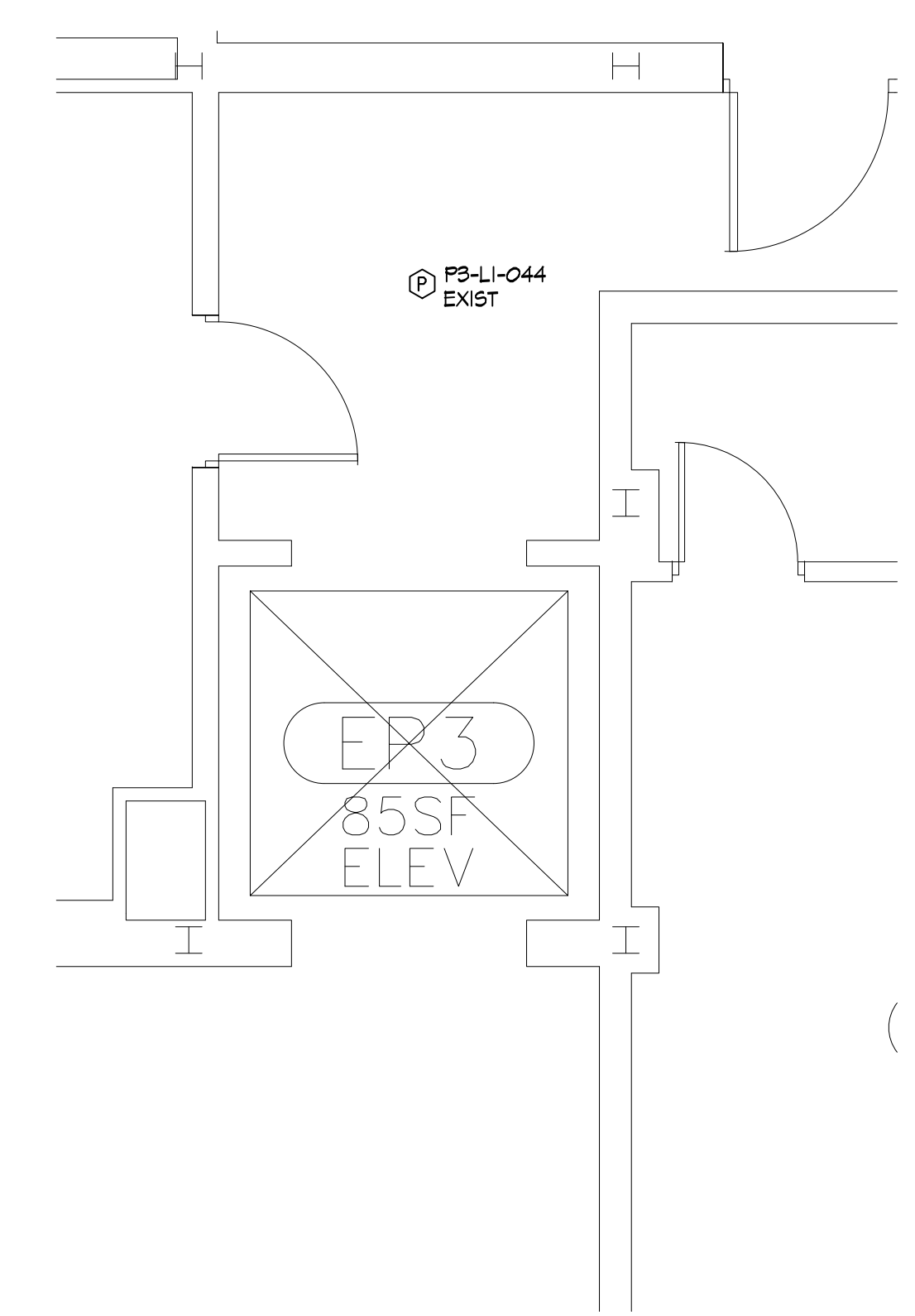


**ELEVATOR EP3 SECOND FLOOR FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

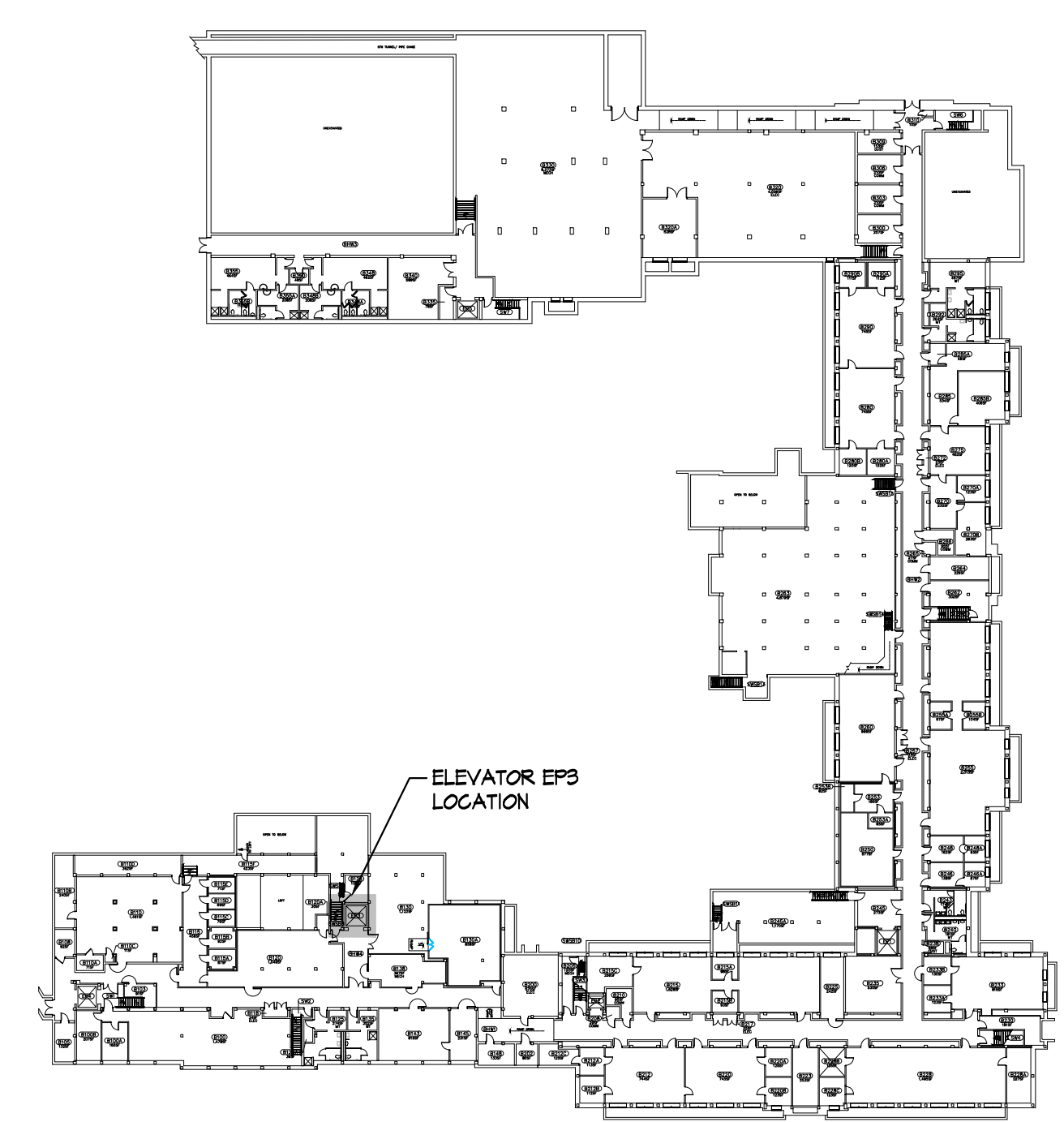
**ELEVATOR EP3 BASEMENT LEVEL FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP3 PIT LEVEL FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP3 FIRST FLOOR FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

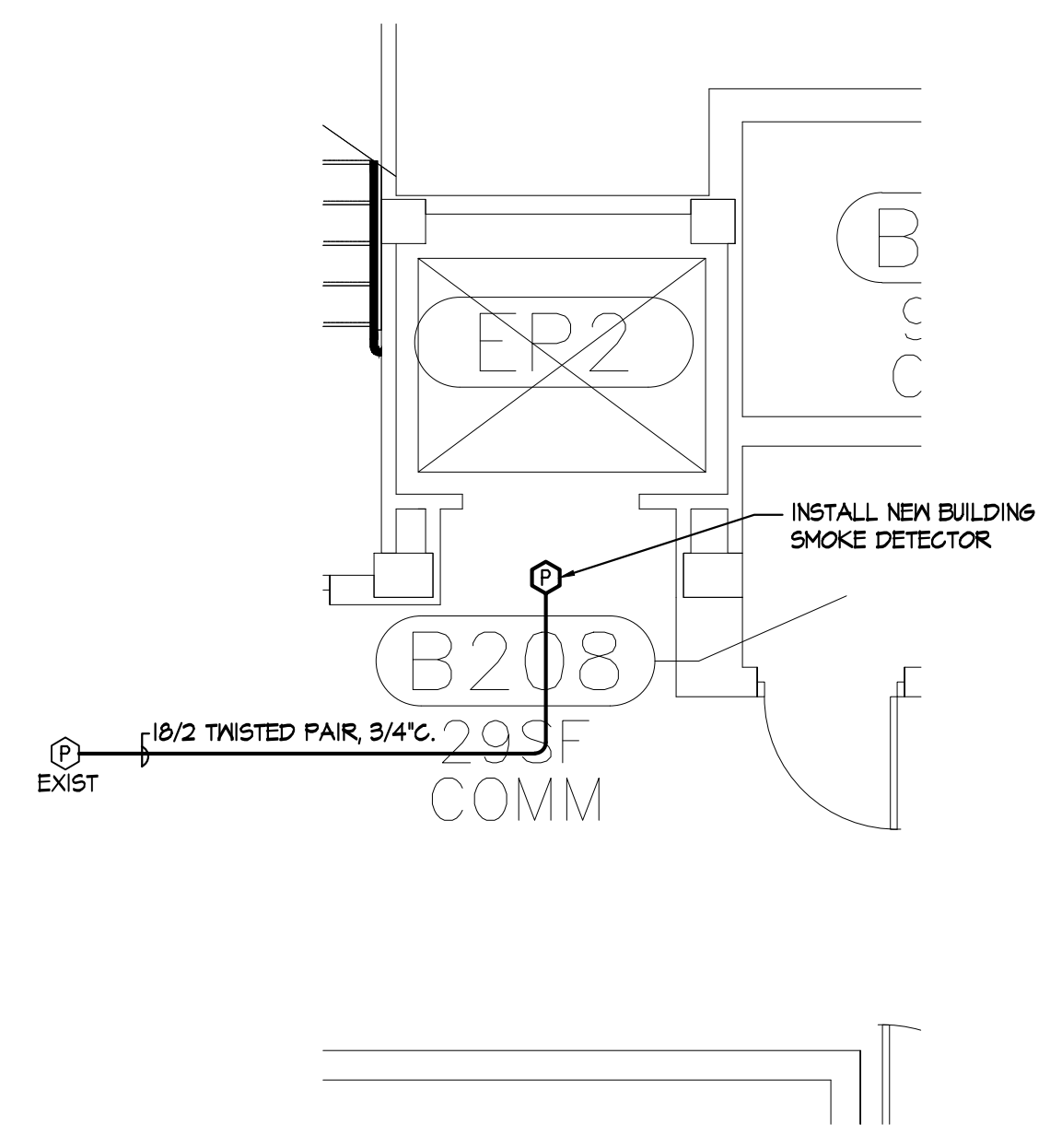


**ELEVATOR EP3 KEY PLAN**  
 NORTH SCALE: 1/4" = 1'-0"

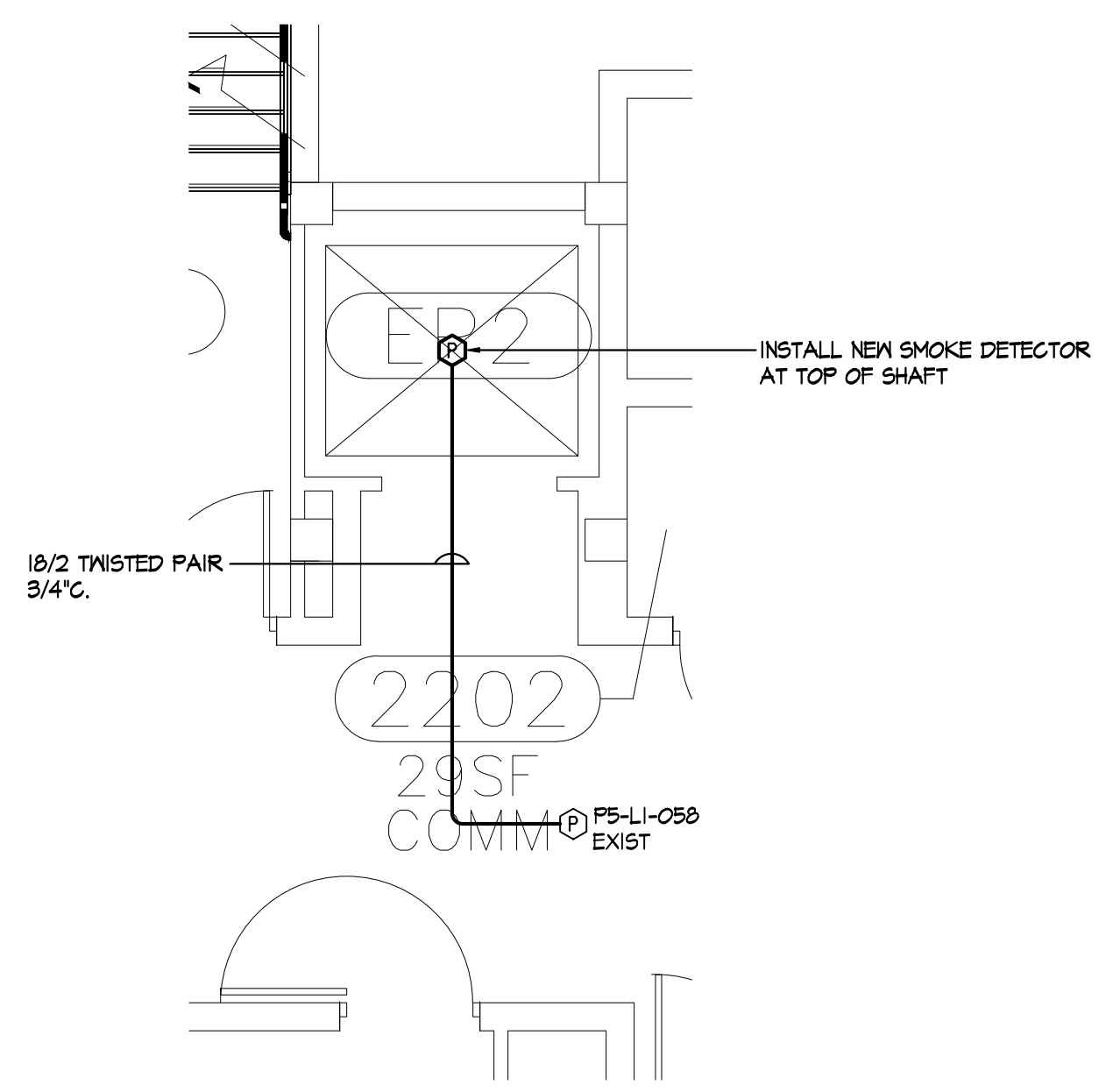
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FIRE ALARM SYMBOLS

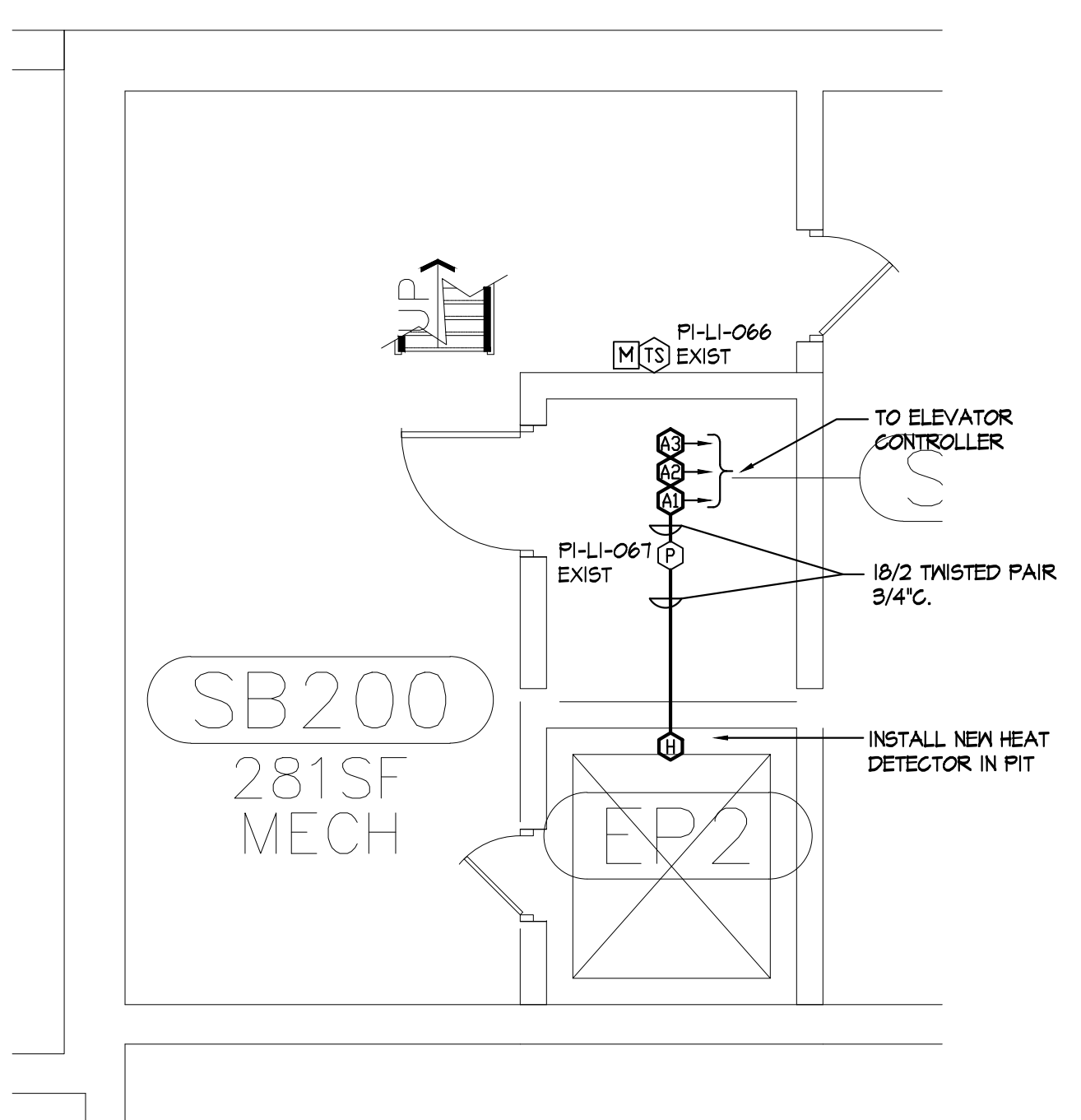
- ⊕ SMOKE DETECTOR
- ⊕ FIRE ALARM RELAY
- ⊕ TAMPER SWITCH
- ⊕ JUNCTION BOX
- ⊕ HEAT DETECTOR



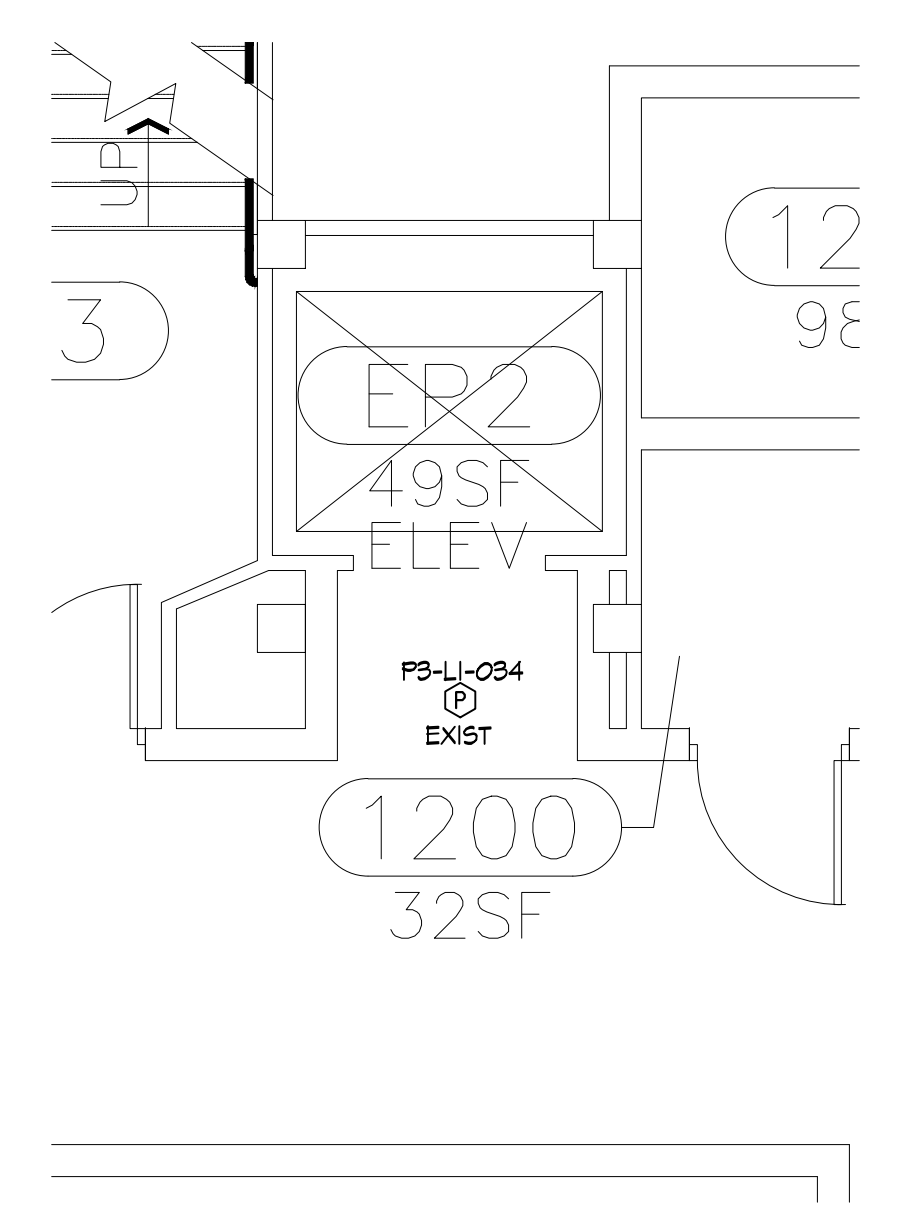
**ELEVATOR EP2 BASEMENT LEVEL  
 FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



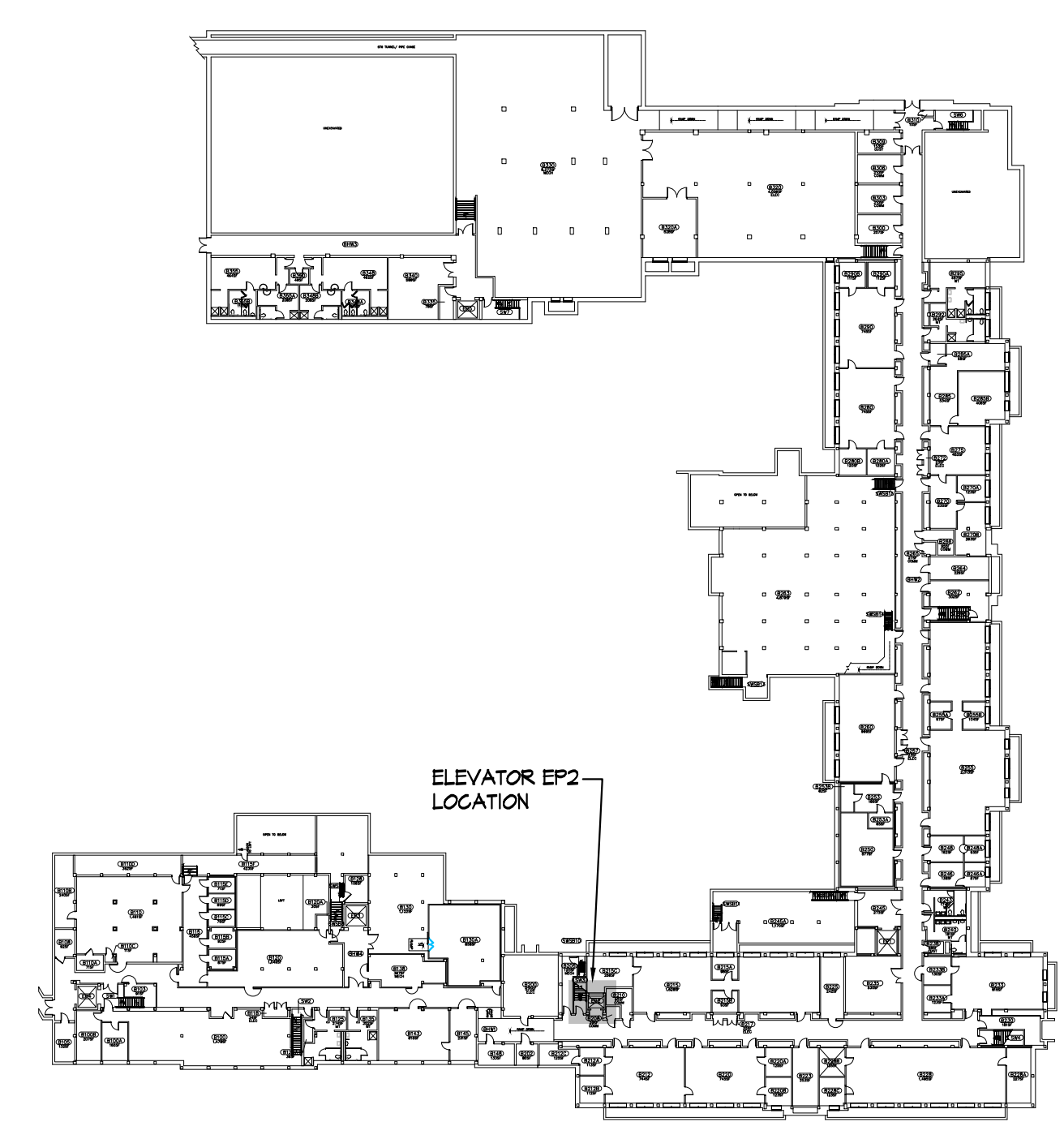
**ELEVATOR EP2 SECOND FLOOR  
 FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP2 PIT LEVEL  
 FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EP2 FIRST FLOOR  
 FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



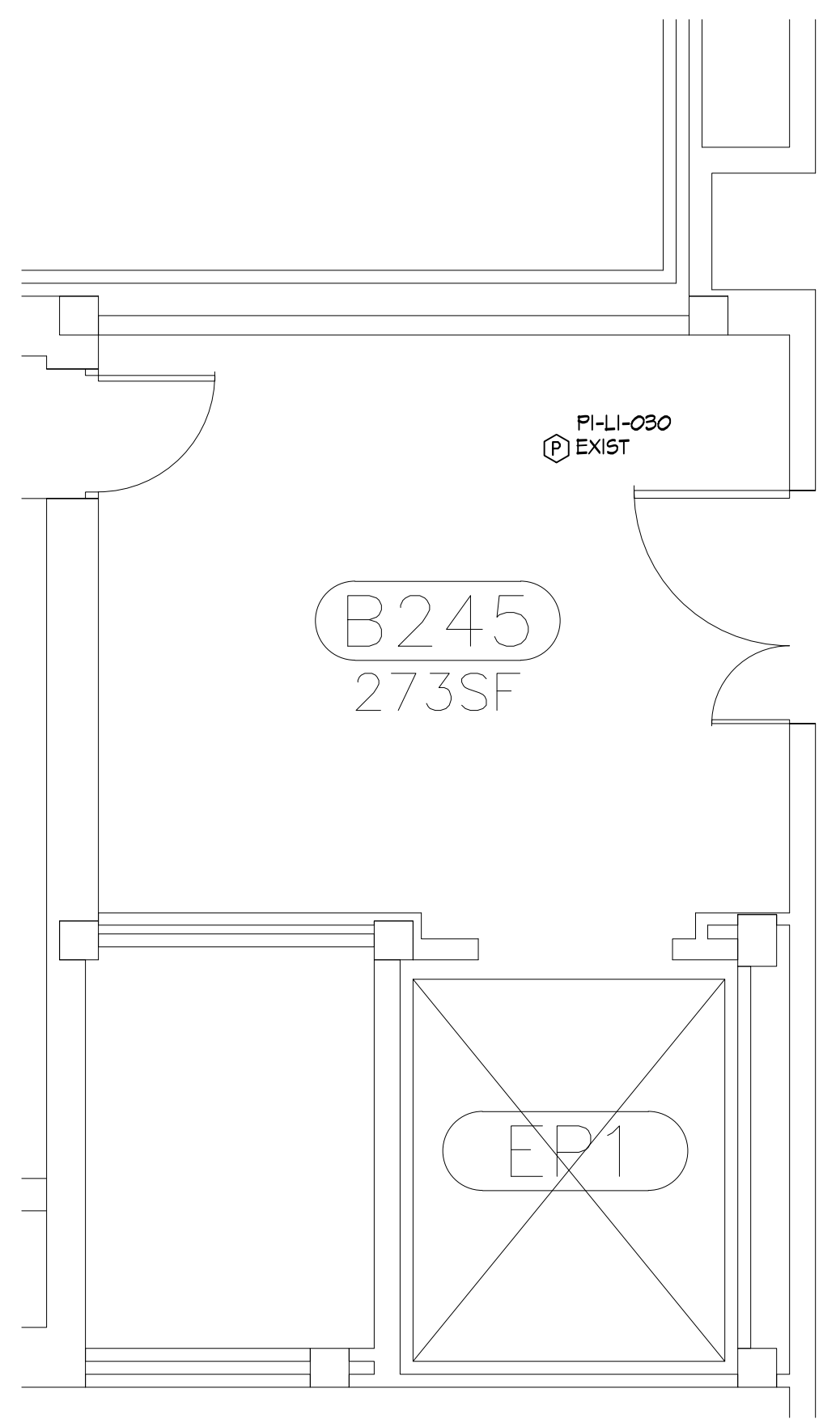
**ELEVATOR EP2  
 KEY PLAN**  
 NORTH SCALE: NONE

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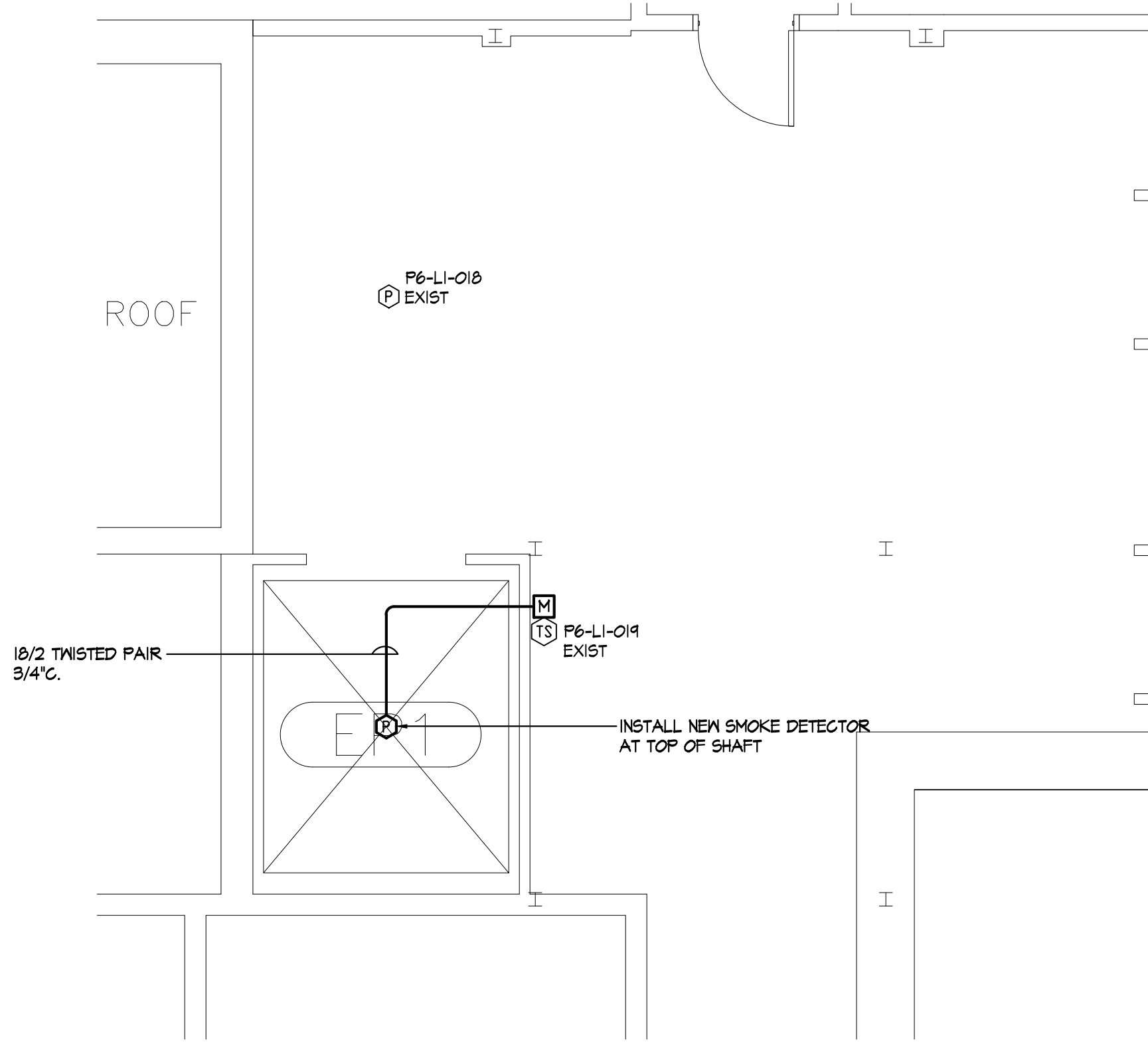
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**FIRE ALARM SYMBOLS**

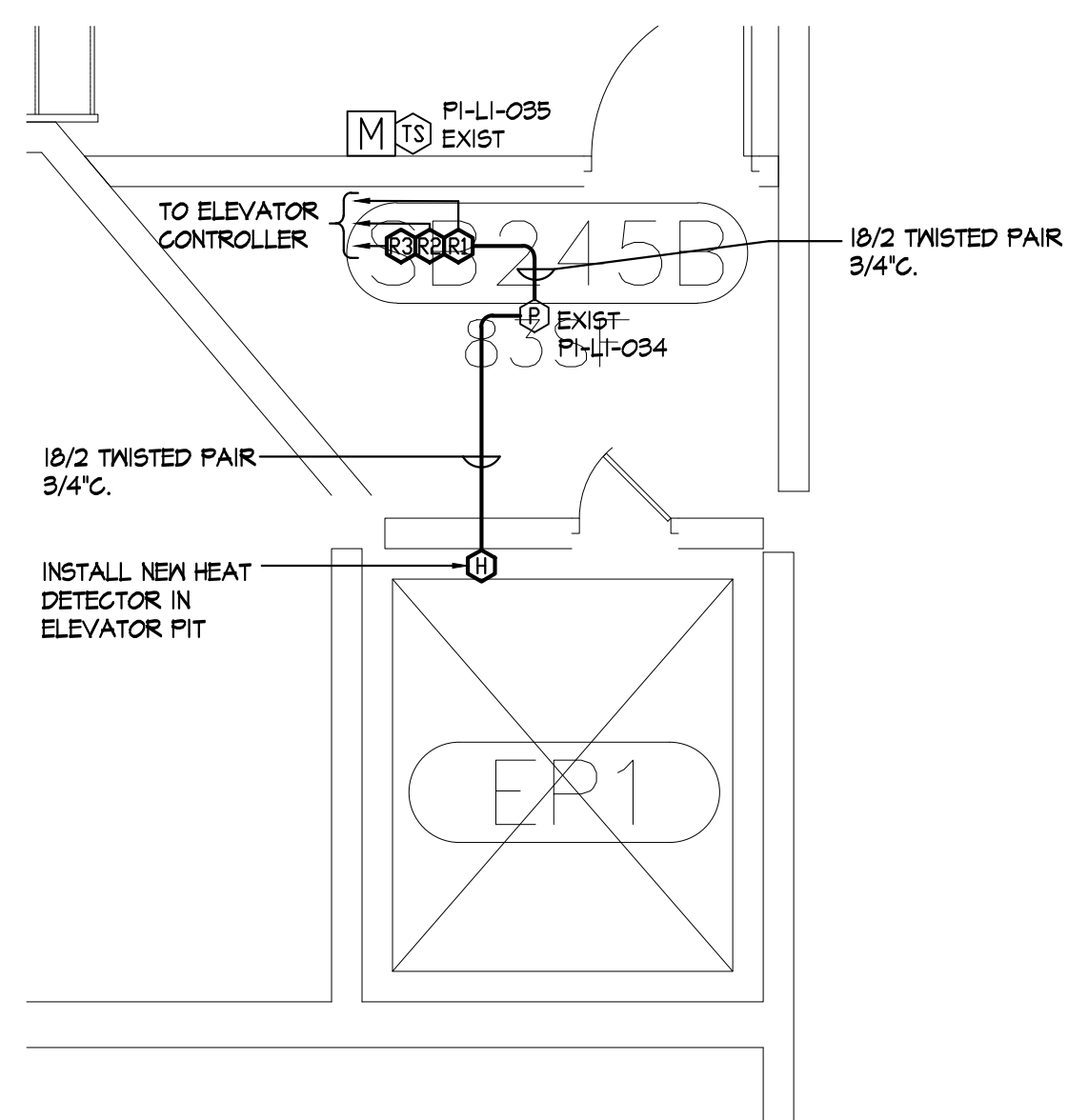
	SMOKE DETECTOR
	FIRE ALARM RELAY
	TAMPER SWITCH
	JUNCTION BOX
	HEAT DETECTOR



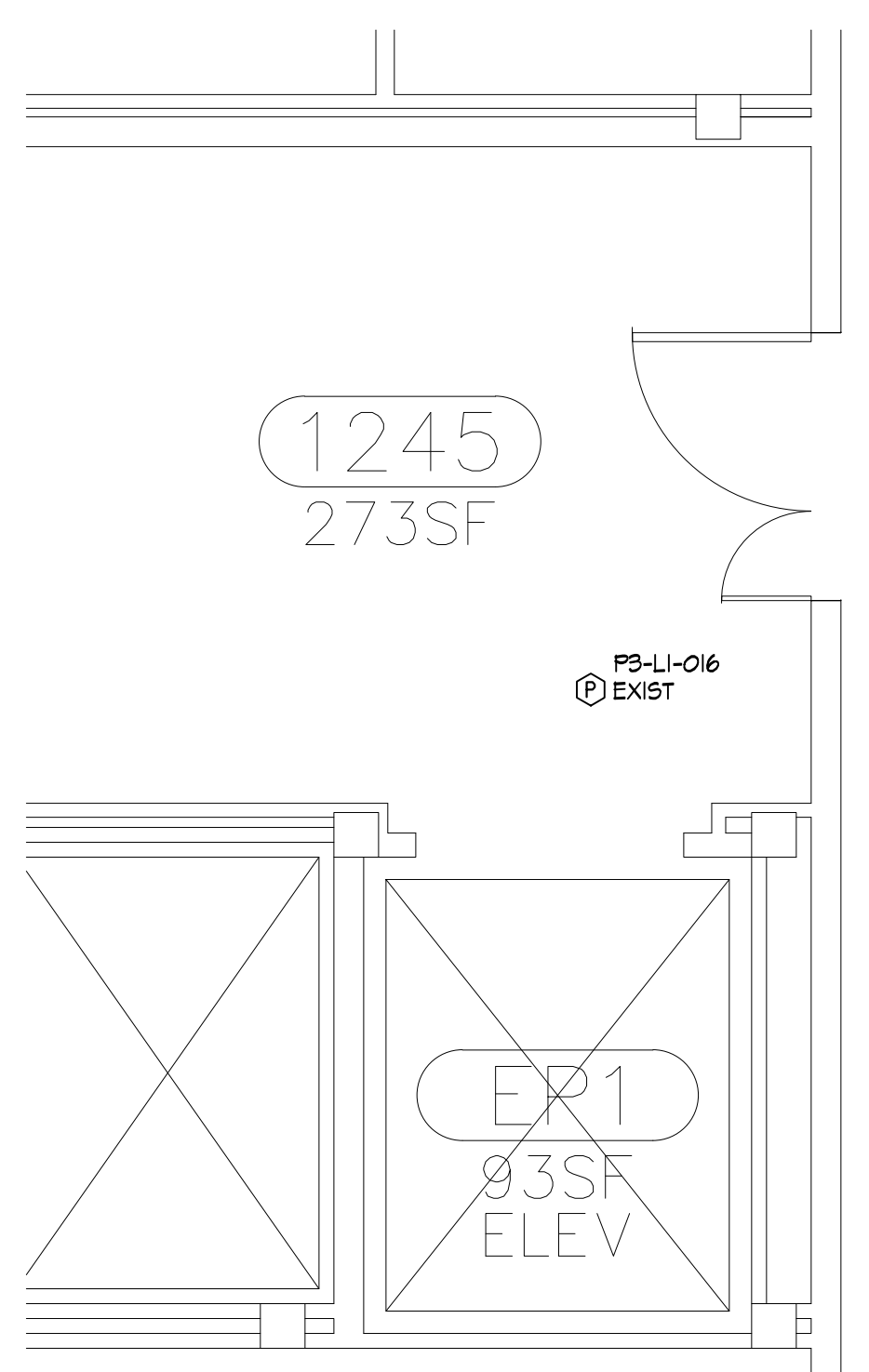
**ELEVATOR EPI BASEMENT LEVEL  
 FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



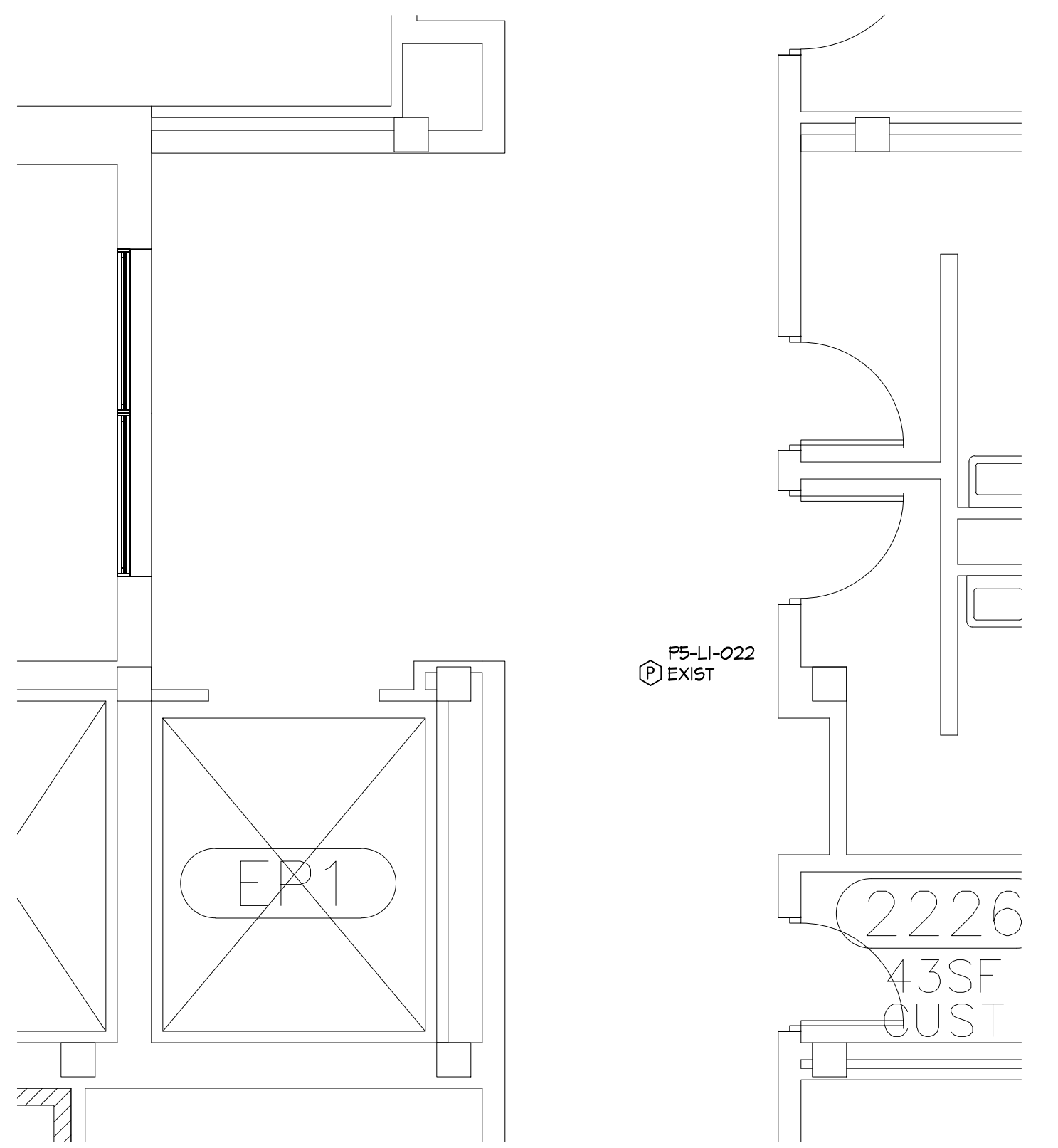
**ELEVATOR EPI THIRD FLOOR  
 FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



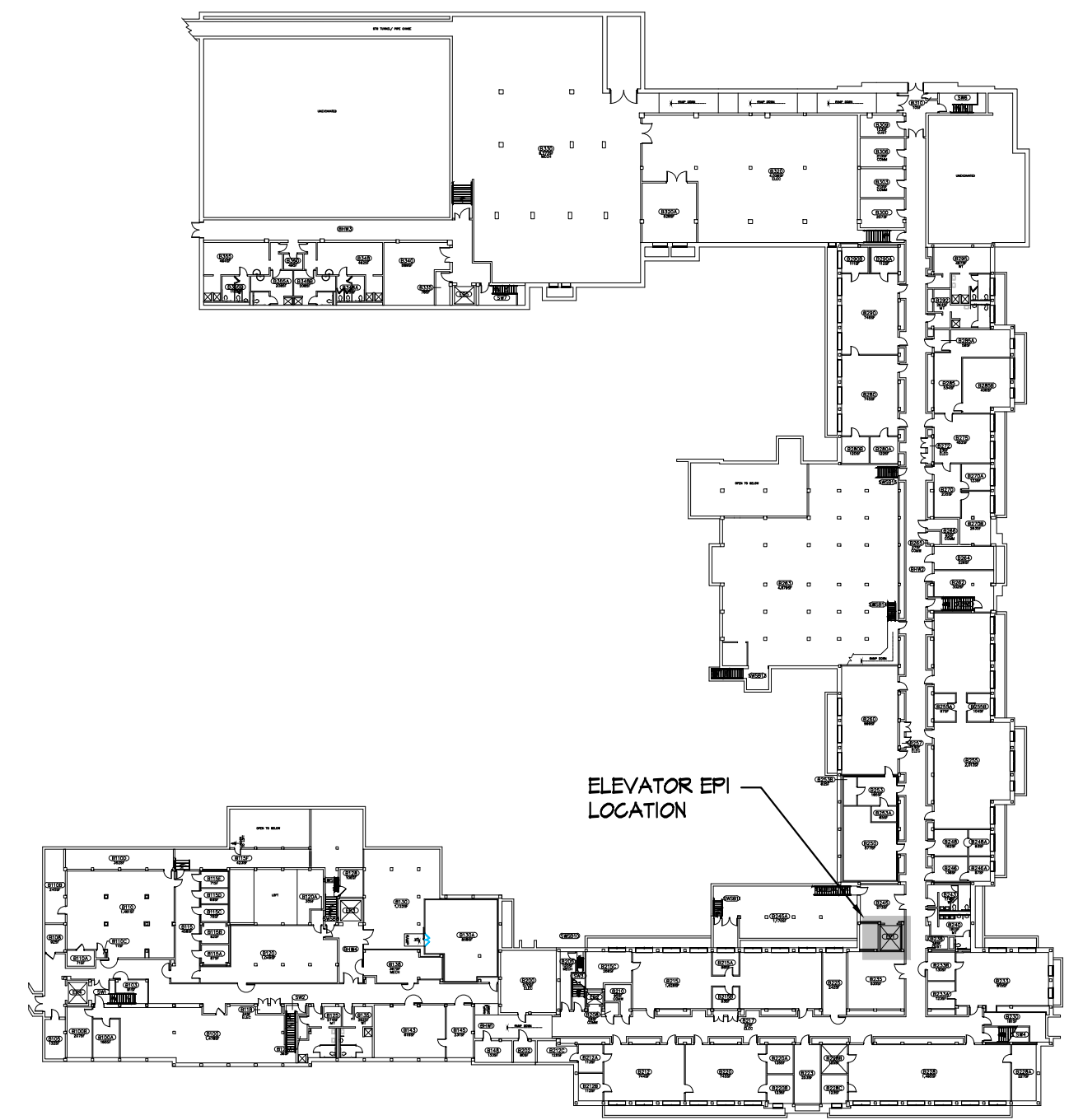
**ELEVATOR EPI PIT LEVEL  
 FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EPI FIRST FLOOR  
 ELECTRICAL DEMOLITION PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EPI SECOND FLOOR  
 FIRE ALARM PLAN**  
 NORTH SCALE: 1/4" = 1'-0"



**ELEVATOR EPI  
 KEY PLAN**  
 NORTH SCALE: NONE

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**ELEVATOR RECALL - FIRE ALARM MATRIX  
ELEVATOR #EP4**

SYSTEM INPUTS	SYSTEM OUTPUTS						
	R1 RELAY DESIGNATED RECALL	R2 RELAY ALTERNATE RECALL	R3 RELAY WARNING	ANNUNCIATOR RECALL STATUS	GENERAL ALARM	TROUBLE STATUS	SUPERVISORY STATUS
ELEVATOR PIT INITIATING DEVICE	●			●	●		
MACHINE ROOM INITIATING DEVICE	●		●	●	●		
BASEMENT LOBBY INITIATING DEVICE	●			●	●		
FIRST FLOOR LOBBY INITIATING DEVICE		●		●	●		
TOP OF ELEVATOR SHAFT INITIATING DEVICE	●			●	●		

**ELEVATOR RECALL - FIRE ALARM MATRIX  
ELEVATOR #EP3**

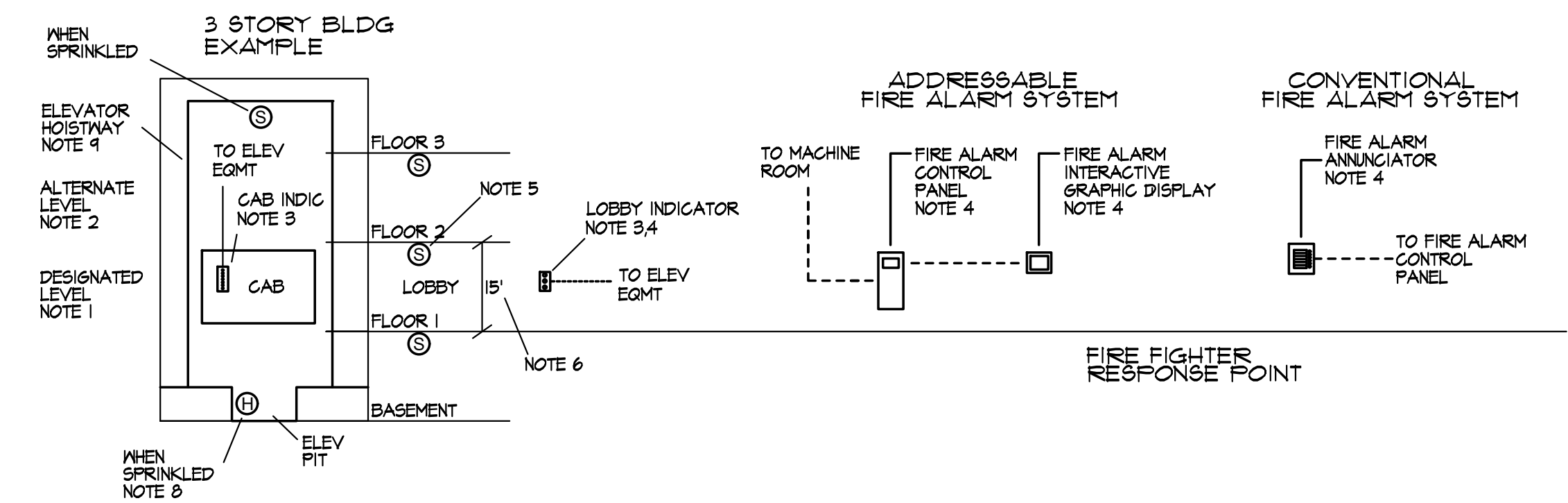
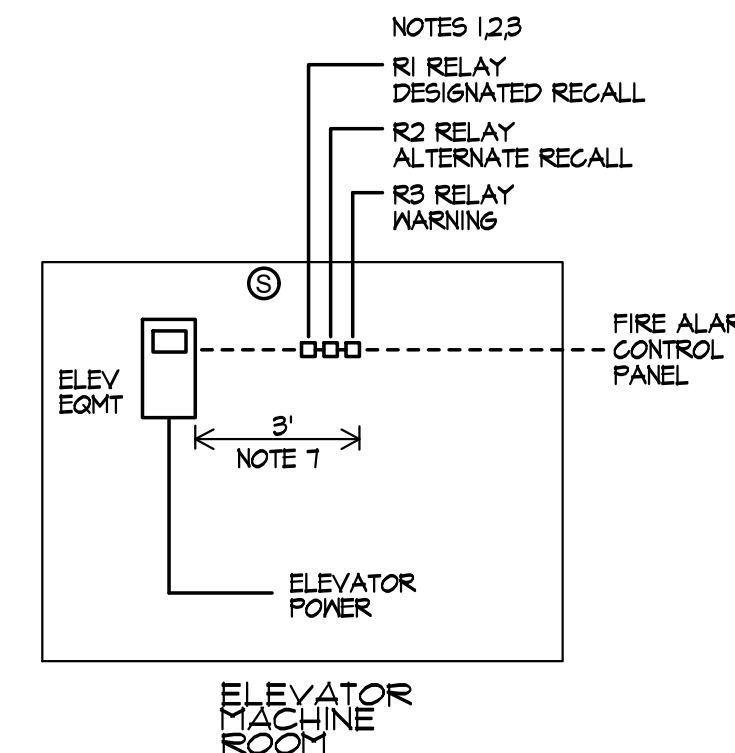
SYSTEM INPUTS	SYSTEM OUTPUTS						
	R1 RELAY DESIGNATED RECALL	R2 RELAY ALTERNATE RECALL	R3 RELAY WARNING	ANNUNCIATOR RECALL STATUS	GENERAL ALARM	TROUBLE STATUS	SUPERVISORY STATUS
ELEVATOR PIT INITIATING DEVICE	●			●	●		
MACHINE ROOM INITIATING DEVICE	●		●	●	●		
SUB-BASEMENT LOBBY INITIATING DEVICE	●			●	●		
BASEMENT LOBBY INITIATING DEVICE	●			●	●		
FIRST FLOOR LOBBY INITIATING DEVICE		●		●	●		
SECOND FLOOR LOBBY INITIATING DEVICE	●			●	●		
TOP OF ELEVATOR SHAFT INITIATING DEVICE	●			●	●		

**ELEVATOR RECALL - FIRE ALARM MATRIX  
ELEVATOR #EP2**

SYSTEM INPUTS	SYSTEM OUTPUTS						
	R1 RELAY DESIGNATED RECALL	R2 RELAY ALTERNATE RECALL	R3 RELAY WARNING	ANNUNCIATOR RECALL STATUS	GENERAL ALARM	TROUBLE STATUS	SUPERVISORY STATUS
ELEVATOR PIT INITIATING DEVICE	●			●	●		
MACHINE ROOM INITIATING DEVICE	●		●	●	●		
BASEMENT LOBBY INITIATING DEVICE	●			●	●		
FIRST FLOOR LOBBY INITIATING DEVICE		●		●	●		
SECOND FLOOR LOBBY INITIATING DEVICE	●			●	●		
TOP OF ELEVATOR SHAFT INITIATING DEVICE	●			●	●		

**ELEVATOR RECALL - FIRE ALARM MATRIX  
ELEVATOR #EP1**

SYSTEM INPUTS	SYSTEM OUTPUTS						
	R1 RELAY DESIGNATED RECALL	R2 RELAY ALTERNATE RECALL	R3 RELAY WARNING	ANNUNCIATOR RECALL STATUS	GENERAL ALARM	TROUBLE STATUS	SUPERVISORY STATUS
ELEVATOR PIT INITIATING DEVICE	●			●	●		
MACHINE ROOM INITIATING DEVICE	●		●	●	●		
BASEMENT LOBBY INITIATING DEVICE	●			●	●		
FIRST FLOOR LOBBY INITIATING DEVICE		●		●	●		
SECOND FLOOR LOBBY INITIATING DEVICE	●			●	●		
THIRD FLOOR LOBBY INITIATING DEVICE	●			●	●		
TOP OF ELEVATOR SHAFT INITIATING DEVICE	●			●	●		



**SHEET NOTES:**

- R1 RELAY - ELEVATOR RECALL TO DESIGNATED FLOOR WILL OCCUR IF SMOKE IS DETECTED IN ANY LOBBY (EXCEPT AT DESIGNATED LEVEL), HOISTWAY, OR MACHINE ROOM.
- R2 RELAY - ELEVATOR RECALL TO ALTERNATE FLOOR WILL OCCUR IF SMOKE IS DETECTED AT THE DESIGNATED FLOOR LOBBY.
- R3 RELAY WARNING FOR THE FIREFIGHTER HELMET LIGHT TO FLASH IN THE ELEVATOR CAB AND LOBBY IF SMOKE IS DETECTED IN THE ELEVATOR HOISTWAY OR MACHINE ROOM.
- THE ELEVATOR LOBBY ANNUNCIATOR, THE FIRE ALARM PANEL, AND THE FIRE ALARM ANNUNCIATOR WILL PROVIDE VISUAL INDICATION OF A RECALL. THE INDICATION WILL READ "ELEVATOR IN RECALL".
- THE LOBBY ELEVATOR SMOKE DETECTORS SHALL BE WITHIN 21' OF THE DOOR CENTERLINE.
- FOR LOBBIES WITH CEILINGS HIGHER THAN 15' THE SMOKE DETECTOR SHALL BE INSTALLED WITHIN 60" OF THE TOP OF THE ELEVATOR DOOR.
- THE ELEVATOR RECALL RELAYS SHALL BE LISTED, INSTALLED WITHIN 3' OF THE ELEVATOR EQUIPMENT, SUPERVISED, MONITORED FOR INTEGRITY, AND WILL INDICATE OPENSHORTED WIRES WITHIN 200 SEC. VERIFY REQUIREMENTS WITH LOCAL AHI.
- VERIFY MOUNTING LOCATION OF WATERPROOF HEAT THERMOCOUPLE WHEN REQUIRED WITH ELEVATOR SUPPLIER.
- VERIFY WITH MSJ FIRE PROTECTION IF A SMOKE EVACUATION SYSTEM IS REQUIRED.

**ELECTRICAL SCOPE OF WORK:**

**ELEVATOR SUPPLIER:**

- PROVIDE ELEVATOR EQUIPMENT WITH ELEVATOR CAB AND LOBBY VISUAL INDICATORS WITH THE ELEVATOR RECALL MESSAGES AND FLASHING FIRE FIGHTER HAT WARNING LIGHTS.
- PROVIDE CONDUIT / WIRING BETWEEN FIRE ALARM RELAYS R1 - R3 AND ELEVATOR EQUIPMENT.
- COORDINATE THE REQUIREMENTS OF THE SUPERVISION WIRING WITH THE FIRE ALARM CONTRACTOR FOR THE RELAYS R1 - R3.

**ELECTRICAL CONTRACTOR OR MSJ IFF ELECTRICIANS**

- MODERN ADDRESSABLE FACP:
  - PROVIDE CONDUIT FROM THE FACP TO THE SMOKE DETECTOR LOCATIONS IN THE LOBBY, ELEVATOR MACHINE ROOM, AND RELAY LOCATION.
  - INSTALL THE FIRE ALARM CABLING AND PROVIDE TERMINATIONS.
  - INSTALL THE SMOKE DETECTORS AND CONNECT TO INITIATION LOOP.
  - INSTALL ELEVATOR RECALL RELAYS R1-R3.
  - IF HOISTWAY IS SPRINKLED:
    - INSTALL SMOKE DETECTOR AT THE TOP OF THE SHAFT.
    - INSTALL WATERPROOF HEAT THERMOCOUPLE SET FOR 189F IN THE ELEVATOR PIT WITHIN 18" OF 165F SPRINKLER HEAD. VERIFY LOCATION WITH MSJ.
  - IF THE HOISTWAY IS NOT SPRINKLED:
    - SMOKE DETECTION IS NOT REQUIRED AT THE TOP OF THE SHAFT.
    - WATERPROOF HEAT THERMOCOUPLE MAY BE REQUIRED. VERIFY WITH MSJ.

**CONVENTIONAL FACP:**

- PROVIDE AN EQUIVALENT SYSTEM WITH THE CONVENTIONAL FACP OR A SMALL ADDRESSABLE FACP DEDICATED FOR THE PURPOSE OF ELEVATOR RECALL MAY BE USED WITH THE CONVENTIONAL SYSTEM.

**FIRE ALARM EQUIPMENT SUPPLIER:**

- PROVIDE PROGRAMMING FOR NEW INITIATION DEVICES AND NOTIFICATION DEVICES
- PROVIDE PROGRAMMING FOR THE ELEVATOR RECALL RELAYS R1-R3.
- PROVIDE AN ELEVATOR RECALL FIRE ALARM BYPASS.
- PROVIDE THE FOLLOWING VISUAL INDICATIONS FOR ELEVATOR RECALL:
  - MODERN ADDRESSABLE FACP
    - FIRE ALARM CONTROL PANEL DIGITAL DISPLAY.
    - INTERACTIVE GRAPHIC DISPLAY OR LED GRAPHIC ANNUNCIATOR.
  - CONVENTIONAL FACP
    - LED GRAPHIC ANNUNCIATOR OR WINDOW ANNUNCIATOR.

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