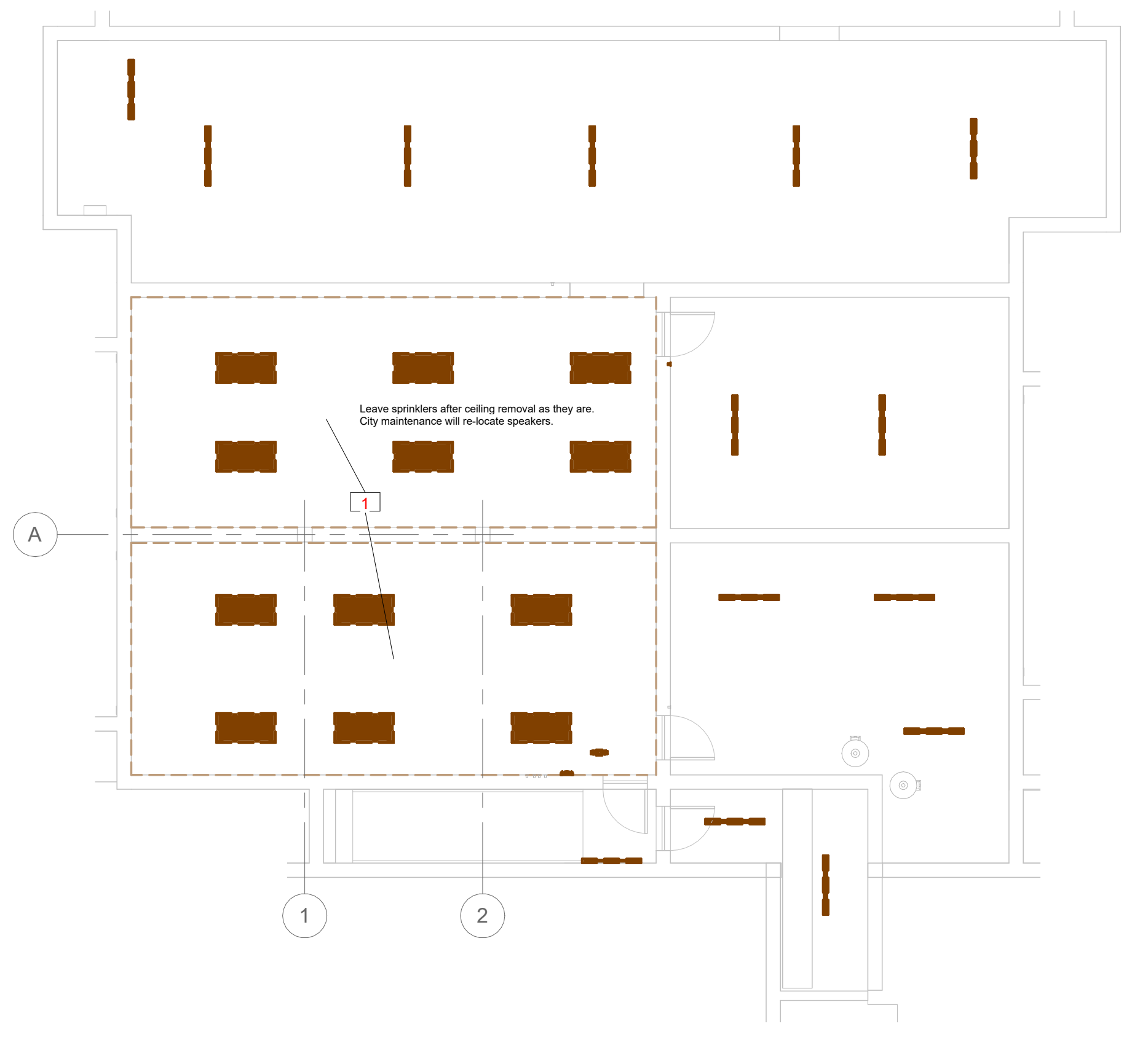


Revisions

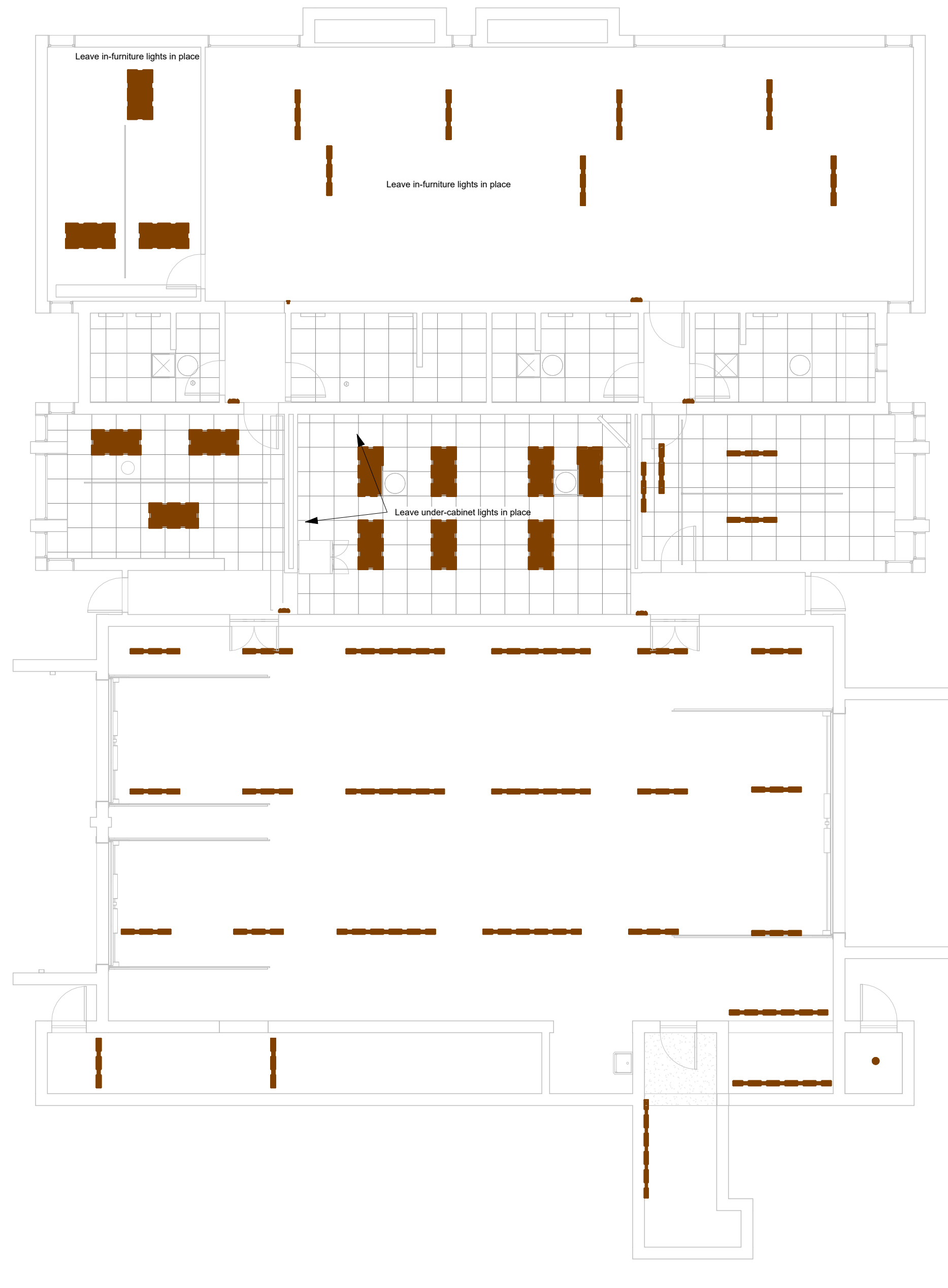
No.	Description

General
Lighting &
Demolition

EL 001



3 ED - Level 0 - Basement 1/8" = 1'-0"



4 ED - Level 1 - Ground Floor 1/8" = 1'-0"

Key Value	Keynote Text
1	Remove entire suspended ceiling. Include all elements. No wall or ceiling repair required.

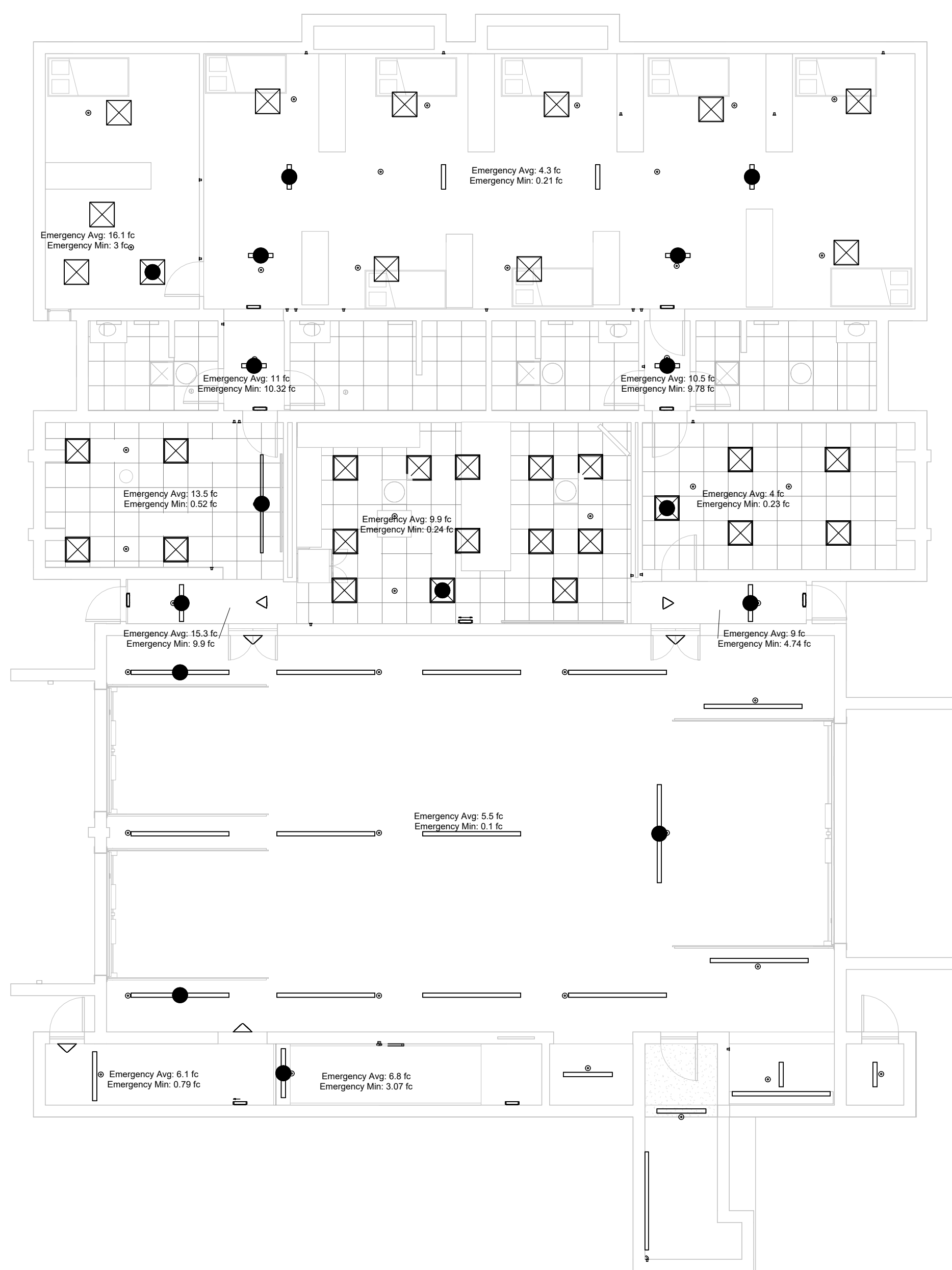
Type Mark	Space Number	Space Name	Apparent Load
EX-2-AC	102	Storage	4 VA
EX-2-AC	100	Garage	4 VA
EX-2-AC	100	Garage	4 VA
EX-2-AC	100	Garage	4 VA
EX-3-AC	001	Gym	4 VA
EX-3-AC	107	Corridor	4 VA
EX-3-AC	106	Corridor	4 VA
EX-AC	001	Gym	1 VA
EX-AC	006	Stairs	1 VA
EX-AC	102	Storage	1 VA
EX-AC	106	Corridor	1 VA
EX-AC	107	Corridor	1 VA
EX-AC	104A	Kitchen	1 VA
EX-AC	113	Passage	1 VA
EX-AC	112	Passage	1 VA
EX-AC	114	Dorm	1 VA
EX-AC	114	Dorm	1 VA
PB-AS-7K	103	Watch	72 VA
PR22-2K	105	TV	16 VA
PR22-3.4K	104A	Kitchen	27 VA
PR22-3.4K	115A	Private Bedroom Office	27 VA
S2-2K	112	Passage	17 VA
S2-2K	114	Dorm	13 VA
S2-2K	113	Passage	13 VA
S2-2K	114	Dorm	13 VA
S2-2K	114	Dorm	13 VA
S2-2K	114	Dorm	13 VA
S3-3K	106	Corridor	20 VA
S3-3K	107	Corridor	20 VA
S4-4K	006	Stairs	25 VA
S4-4K	006	Stairs	25 VA
S4-4K	002	Mechanical 1	32 VA
S8-8K	003	Mechanical 2	36 VA
S8-8K	003	Mechanical 2	36 VA
S8-8K	001	Gym	36 VA
S8-8K	001	Gym	36 VA
S8-8K	100	Garage	49 VA
S8-8K	100	Garage	49 VA
S8-10K	100	Garage	61 VA
			717 VA

Space Number	Space Name	Area	Space Type	Workplane Height	Min. Required Illumination	Actual Illumination	Illumination Goal	Max. Allowed Power Density IECC 2015	Actual Power Density	Allowed Lighting Load	Actual Lighting Load
001	Gym	1,147 ft²	Fitness Exercise Area	2'-0"	30 fc	44.1 fc	147%	0.72 W/ft²	0.372 W/ft²	59%	828 VA
002	Mechanical 1	411 ft²	Electrical / Mechanical	2'-0"	30 fc	30.9 fc	103%	0.95 W/ft²	0.335 W/ft²	35%	391 VA
003	Mechanical 2	1,114 ft²	Electrical / Mechanical	2'-0"	30 fc	32.1 fc	107%	0.95 W/ft²	0.287 W/ft²	30%	1,058 VA
004	Storage	350 ft²	Warehouse - bulky items palletized	2'-0"	20 fc	25.5 fc	128%	0.58 W/ft²	0.278 W/ft²	48%	208 VA
005	Storage	118 ft²	Storage	2'-0"	10 fc	22.1 fc	221%	0.63 W/ft²	0.339 W/ft²	54%	74 VA
006	Storage	113 ft²	Stairwell	0'-0"	10 fc	20.3 fc	203%	0.69 W/ft²	0.529 W/ft²	77%	73 VA
100	Garage	2,013 ft²	Emergency Vehicle Garage	2'-0"	30 fc	32.2 fc	107%	0.56 W/ft²	0.362 W/ft²	70%	1,128 VA
101	Storage	110 ft²	Storage	2'-0"	10 fc	24 fc	240%	0.63 W/ft²	0.548 W/ft²	87%	69 VA
102	Storage	94 ft²	Storage	2'-0"	10 fc	18.1 fc	181%	0.63 W/ft²	0.283 W/ft²	45%	59 VA
103	Watch	229 ft²	Office - open	2'-0"	40 fc	43.8 fc	110%	0.98 W/ft²	0.833 W/ft²	85%	225 VA
104A	Kitchen	290 ft²	Food Preparation	2'-0"	50 fc	59.1 fc	112%	1.21 W/ft²	0.662 W/ft²	55%	351 VA
104B	Drinking Area	162 ft²	Drinking Area	2'-0"	30 fc	37.9 fc	126%	0.96 W/ft²	0.481 W/ft²	50%	158 VA
105	TV	264 ft²	Lounge / Breakroom	2'-0"	20 fc	22.2 fc	111%	0.73 W/ft²	0.295 W/ft²	40%	193 VA
106	Corridor	51 ft²	Corridor - otherwise	0'-0"	10 fc	21.2 fc	212%	0.66 W/ft²	0.384 W/ft²	60%	33 VA
107	Corridor	48 ft²	Corridor - otherwise	0'-0"	10 fc	10.8 fc	108%	0.66 W/ft²	0.418 W/ft²	63%	32 VA
112	Passage	38 ft²	Corridor - otherwise	0'-0"	10 fc	11 fc	110%	0.66 W/ft²	0.536 W/ft²	81%	24 VA
113	Passage	27 ft²	Corridor - otherwise	0'-0"	10 fc	10.2 fc	102%	0.66 W/ft²	0.565 W/ft²	86%	15 VA
114	Dorm	1,210 ft²	Dormitory - Living Quarters	2'-0"	20 fc	23.2 fc	116%	0.38 W/ft²	0.272 W/ft²	72%	460 VA
115A	Private Bedroom Office	123 ft²	Office - enclosed	2'-0"	40 fc	46 fc	115%	1.11 W/ft²	0.646 W/ft²	58%	137 VA
115B	Private Bedroom Sleeping	139 ft²	Dormitory - Living Quarters	2'-0"	20 fc	21.6 fc	108%	0.38 W/ft²	0.223 W/ft²	60%	53 VA
116	Shed	23 ft²	Storage	2'-0"	10 fc	10.3 fc	103%	0.83 W/ft²	0.442 W/ft²	70%	15 VA
		8,082 ft²								5,586 VA	3,023 VA

- A. Demolition:**
- Demolish all existing lighting fixtures and controls. This includes all items not needed for new installation function. This includes, but is not limited to emergency, exit, track, architectural and spot lights, switches, sensors, inverters, batteries and control panels. Demolition drawings may not show all existing items.
 - Remove all unused raceways, boxes, conduit and wiring.
 - Patch wall, ceiling and other surfaces damaged by removal. Use adjacent surface matching cover for electrical boxes.
- B. Installation:**
- Install new raceways, boxes, conduit and wiring as required for new lighting fixtures and controls.
 - Exception: in existing buildings with masonry walls or bare concrete ceiling, new conduit and boxes can be surface-mounted.
 - Modify Grid Ceiling to accommodate new fixtures. Fill in openings with new tiles of existing type. Contractor will provide grid elements and tiles. In some locations install in even pattern. Where sprinkler, diffuser or other permanent obstruction prevents even layout, relocate after consultation with engineer.
 - Install fixtures at indicated height and provide required suspension. A height typically applies to all fixtures in a space, even if only a single fixture has an indicated height shown. If no height is provided, ceiling surface height can be assumed.
 - Surface wiring raceway in finished areas is only allowed where the structure does not allow installation behind ceiling or wall. Raceway shall be neatly routed and hidden in corners to the greatest extent possible. Paint to match adjacent surface.
- C. Control:**
- Locate sensors to enable good detection within controlled zone and in between partitions. In enclosed rooms minimize detection of motion in adjacent rooms.
 - Lighting zones are indicated by wire annotations and/or switchleg (SL) numbering. Wire annotations are schematic only to indicate control relationships and don't necessarily equal actually required physical wire runs. Lighting zones can be shown by proximity of sensor and light fixture without wire or switchleg annotation (for example, garage lighting where each fixture has one sensor).
 - Spaces with electrical panels shall have at least one light be controlled by a manual switch only (no automatic control) per code requirement.
 - Fixture-mounted sensors shall be installed to allow 360° detection and bottom of sensor lens shall be at or below bottom of fixture.
 - Size analog 0-10V wiring to limit voltage drop. At 100% position the light fixture shall be 100% bright.
- D. Emergency Lighting:**
- Light fixtures with a black dot indicate emergency lights.
 - Control fixtures from central inverter or generator. Provide all wiring to emergency power source.



1 EL Egress - Level 0 1/8" = 1'-0"



2 EL Egress - Level 1 1/8" = 1'-0"

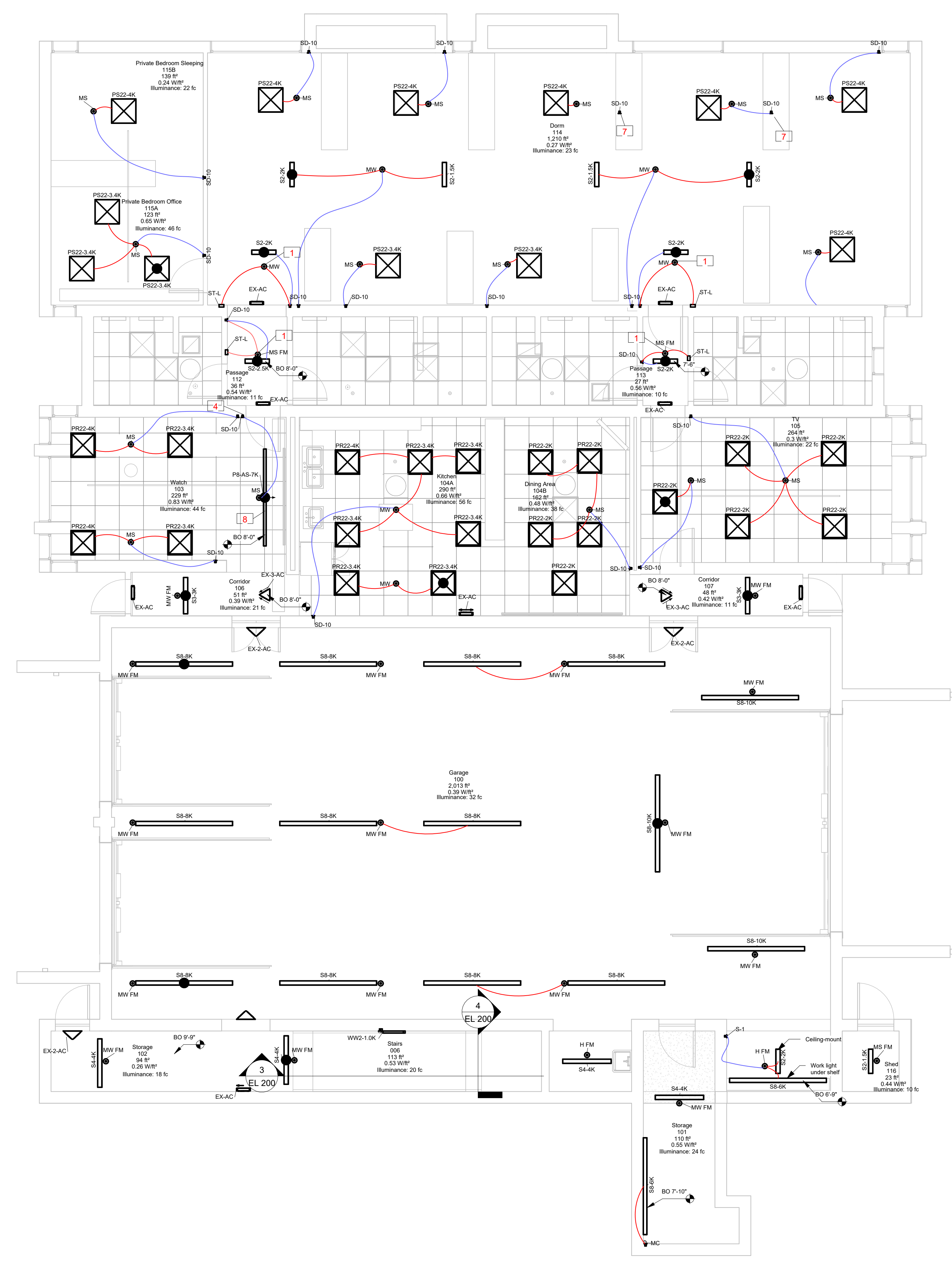
Revisions

No.	Description

Project North
TRUE

Lighting

EL 200



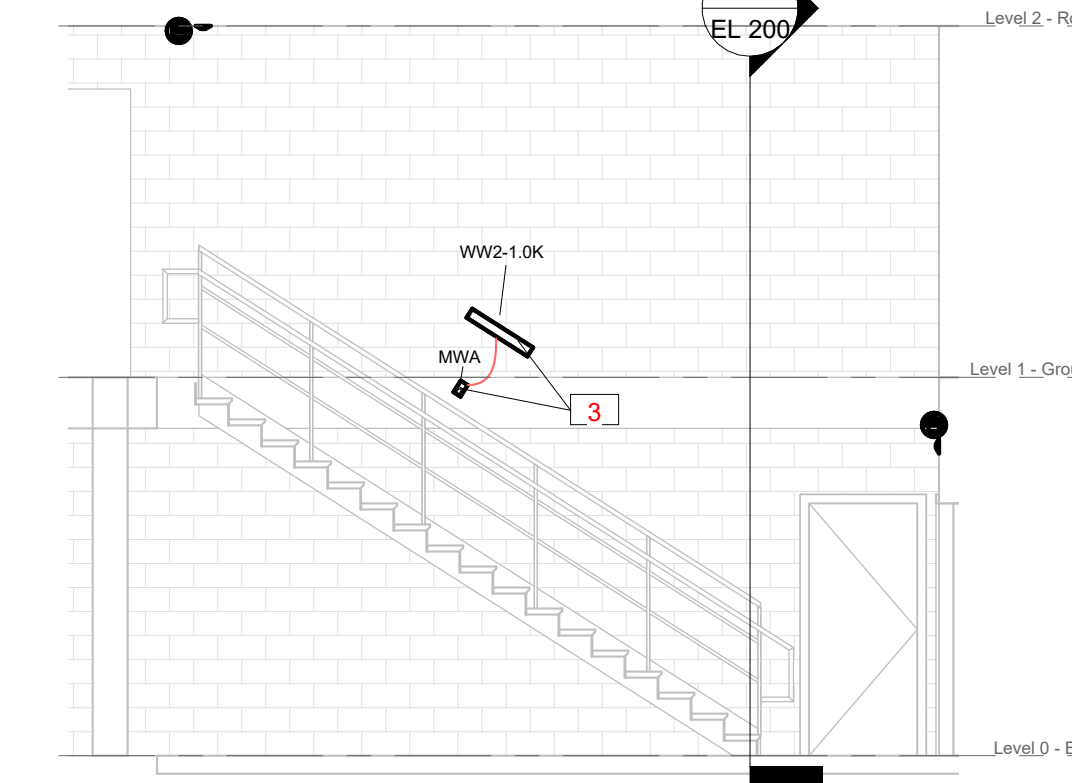
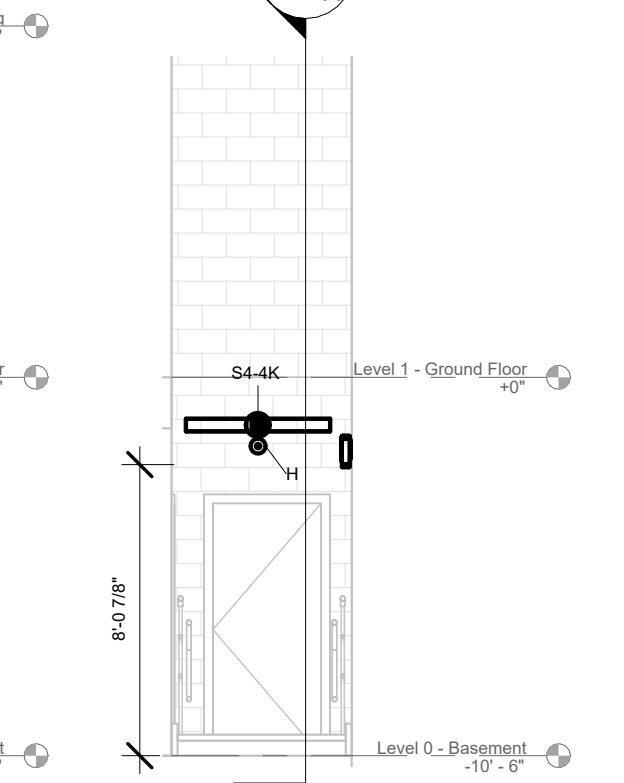
② EL Ceiling - Level 1 3/16" = 1'-0"

Keynote Legend

Key Value	Keynote Text
1	Motion sensor upstream of switch. Don't wire sensor dimming. All dimming by manual dimmer only.
2	Use Existing Switch
3	Rotate wall-sensor and light fixture to be parallel to stair-slope. Optimize detection of people coming from up- and downstairs. Review sensor coverage pattern.
4	Disable switching, Dimming function only.
5	Power all emergency lighting fixtures and exit signs from this battery power inverter.
6	XTO Fire Alarm Panel. Wire from here to the UL 524 relays in the spaces.
7	Install switch in office compartment of furniture: not conduit similar to existing conduit (on top of cabinet) to wall.
8	Install spotlight with asymmetric light distribution aimed towards map.

④ EL Section - Stair Face Wall 3/16" = 1'-0"

③ EL Section - Stairs 3/16" = 1'-0"



① EL Ceiling - Level 0 3/16" = 1'-0"

