LIGHTING DEMOLITION LEGEND

- REMOVE PENDANT SUSPENDED FLUORESCENT FIXTURE (LENGTH VARIES, CONFIRM LENGTH ON-SITE), CONDUIT AND WIRING TO REMAIN AND BE REWORKED TO SUIT NEW LAYOUT. MAKE CIRCUIT GOOD. REMOVE REDUNDANT CONDUIT AND WIRING.
- REMOVE 150mm RECESSED DOWNLIGHT, CONDUIT AND WIRING TO REMAIN AND BE REWORKED TO SUIT NEW LAYOUT. MAKE CIRCUIT GOOD. REMOVE REDUNDANT CONDUIT AND WIRING.
- REMOVE EXIT SIGN. CONDUIT AND WIRING TO REMAIN AND BE REWORKED TO SUIT NEW LAYOUT. MAKE CIRCUIT GOOD. REMOVE REDUNDANT CONDUIT AND WIRING.
- REMOVE LIGHTING TOGGLE SWITCH C/W ASSOCIATED CONDUIT AND WIRING.
- EXISTING DECORATIVE WALL SCONCE TO REMAIN.
- EXISTING LIGHTING TOGGLE SWITCH TO REMAIN.
- EXISTING PENDANT SUSPENDED FIXTURE (LENGTH VARIES) TO REMAIN.
- EXISTING RECESSED DOWNLIGHT FIXTURE TO REMAIN.
- HATCHING DENOTES FIXTURES ARE CONNECTED TO EMERGENCY POWER.

POWER DEMOLITION LEGEND

- REMOVE 15A-120V DUPLEX RECEPTACLE C/W CONDUIT AND WIRING BACK TO SOURCE UNLESS INDICATED OTHERWISE
- REMOVE 15A-120V SIMPLEX RECEPTACLE C/W CONDUIT AND WIRING BACK TO SOURCE
- REMOVE 20A-120V FLOOR BOX C/W TWO DUPLEX RECEPTACLES C/W CONDUIT AND WIRING BACK TO SOURCE
- REMOVE/RELOCATE EQUIPMENT CONNECTION C/W CONDUIT AND WIRING BACK TO SOURCE UNLESS NOTED OTHERWISE
- RELOCATE DISCONNECT SWITCH AND REWORK CONDUIT AND WIRING AS REQUIRED TO SUIT NEW LOCATION
- P — REMOVE FURNITURE POWER CONNECTION C/W CONDUIT AND WIRING BACK TO SOURCE
- EXISTING 15A-120V DUPLEX RECEPTACLE TO REMAIN
- EXISTING 15A-120V QUAD RECEPTACLE TO REMAIN
- EXISTING 20A-120V FLOOR BOX C/W TWO DUPLEX RECEPTACLES TO REMAIN
- EXISTING EQUIPMENT CONNECTION TO REMAIN
- P — EXISTING FURNITURE POWER CONNECTION TO REMAIN
- EXISTING COMBINATION STARTER/DISCONNECT SWITCH TO REMAIN

SYSTEMS DEMOLITION LEGEND

- REMOVE DATA/TELEPHONE OUTLET C/W CONDUIT AND WIRING BACK TO SOURCE
- RELOCATE TELEPHONE OUTLET AND REWORK CONDUIT AND WIRING AS REQUIRED
- REMOVE TV OUTLET C/W CONDUIT AND WIRING BACK TO SOURCE
- D/T — REMOVE DATA/TELEPHONE FURNITURE CONNECTION C/W CONDUIT AND WIRING BACK TO SOURCE
- WAP — RELOCATE WIRELESS ACCESS POINT
- SD — RELOCATE FIRE ALARM SMOKE DETECTOR
- S — RELOCATE FIRE ALARM SPEAKER
- EXISTING DATA/TELEPHONE OUTLET TO REMAIN
- EXISTING TELEPHONE OUTLET TO REMAIN
- WAP — EXISTING WIRELESS ACCESS POINT TO REMAIN
- SD — EXISTING FIRE ALARM SMOKE DETECTOR TO REMAIN
- F — EXISTING FIRE ALARM MANUAL PULL STATION TO REMAIN
- SL — EXISTING FIRE ALARM STROBE LIGHT TO REMAIN
- S — EXISTING FIRE ALARM SPEAKER TO REMAIN
- CR — EXISTING CARD READER TO REMAIN
- EXISTING CAMERA TO REMAIN

ABBREVIATIONS LEGEND

CH	COUNTER HEIGHT
HL	HIGH LEVEL
R	RELOCATED DEVICE
RR	REMOVE AND REINSTALL. REUSE EXISTING CIRCUIT AND CONTROLS SERVING AREA.

LIGHTING LEGEND

- A1, A2, A3 — PROVIDE PENDANT SUSPENDED LINEAR FIXTURE C/W PHILIPS LAMPS INSTANTFIT TYPE C 13T8/MAS/48-835/IF20/P/DIM/10/1 AND PHILIPS TYPE C LED BALLAST ADVANCE 1ZT-232-SC@120
  TYPE A1 = AXIS LT-VL-4FT-T8LED-2-W-0-0-120-D-1-C-D-C
  TYPE A2 = AXIS LT-VL-8FT-T8LED-2-W-0-0-120-D-1-C-D-C
  TYPE A3 = AXIS LT-VL-12FT-T8LED-2-W-0-0-120-D-1-C-D-C
- B — PROVIDE 300 x 1200mm T-BAR RECESSED TROFFER FIXTURE C/W PHILIPS LAMPS INSTANTFIT TYPE C 13T8/MAS/48-835/IF20/P/DIM/10/1 AND PHILIPS TYPE C LED BALLAST ADVANCE 1ZT-232-SC@120 AXIS D/A-14-VL-T8LED-2-W-120-D-1-TB15-C
- C — PROVIDE 150MM RECESSED LED DOWNLIGHT 3G LIGHTING 3G-DL45RF-15-580-35K-60D-120-DIM-WT-WI-NCF
- PROVIDE UNIVERSAL MOUNT PICTOGRAM EXIT SIGN. LUMACELL LA1WS. WIRE TO EXISTING EXIT LIGHT CIRCUIT. PROVIDE LOCK-ON DEVICE FOR BREAKER.
- OS — PROVIDE CEILING MOUNTED OCCUPANCY SENSOR C/W POWER PACK LUTRON LOS-CDT-2000-WH
- OS — PROVIDE WALL MOUNTED 120V OCCUPANCY C/W COVERPLATE. LUTRON MAESTRO MS-B102-WH
- OSD — PROVIDE WALL MOUNTED 120V OCCUPANCY C/W 120V (0-10V) SLIDE DIMMER AND COVERPLATE. LUTRON MAESTRO MS-Z101-WH.
- D — PROVIDE WALL MOUNTED 120V (0-10V) DIMMER C/W COVERPLATE. LUTRON DIVA DVSCTV
- 3 — 3-WAY TOGGLE SWITCH
- HATCHING DENOTES FIXTURE IS CONNECTED TO EMERGENCY POWER

POWER LEGEND

- PROVIDE 15A-120V DUPLEX RECEPTACLE
- PROVIDE 15A-120V QUAD RECEPTACLE
- PROVIDE 20A-120V DUPLEX RECEPTACLE
- PROVIDE 20A-120V GFCI DUPLEX RECEPTACLE
- PROVIDE RECESSED FLOOR BOX C/W 20A-120V QUAD RECEPTACLE
- PROVIDE RECESSED FLOOR BOX C/W 20A-120V QUAD RECEPTACLE AND 4 KEYSTONE DATA OUTLETS
- BF — PROVIDE BARRIER FREE DOOR OPERATOR CONNECTION
- PROVIDE MOTOR CONNECTION

SYSTEMS LEGEND

- PROVIDE DATA OUTLET CAT6.
- PROVIDE FLUSH MOUNT RECESSED FLOOR BOX C/W 20A-120V QUAD RECEPTACLE AND 4 KEYSTONE DATA OUTLETS WITH FLUSH COVER.
- ET — PROVIDE EMERGENCY TELEPHONE
- PB — PROVIDE EMERGENCY CALL SYSTEM COMBINATION PUSH BUTTON AND INDICATOR
- EDL — PROVIDE EMERGENCY CALL SYSTEM BUZZER/DOME LIGHT
- PROVIDE OCCUPIED LIGHT
- PTL — PROVIDE PUSH-TO-LOCK BUTTON
- FDD — PROVIDE FIRE SMOKE DAMPER COORDINATE EXACT LOCATION ON SITE.
- SL — PROVIDE FIRE ALARM STROBE LIGHT.
- EB — PROVIDE ELECTRIC STRIKE, ELECTRICAL CONTRACTOR TO CARRY ALLOWANCE AS PER FRONT END SPECIFICATION AND ELECTRICAL CONTRACTOR TO PROVIDE 21mm CONDUIT C/W FISHCORD TO ACCESSIBLE CABLE TRAY.
- DC — PROVIDE DOOR CONTACT, ELECTRICAL CONTRACTOR TO CARRY ALLOWANCE AS PER FRONT END SPECIFICATION AND ELECTRICAL CONTRACTOR TO PROVIDE 21mm CONDUIT C/W FISHCORD TO ACCESSIBLE CABLE TRAY.
- SECURITY CAMERA, ELECTRICAL CONTRACTOR TO CARRY ALLOWANCE AS PER FRONT END SPECIFICATION AND ELECTRICAL CONTRACTOR TO PROVIDE 21mm CONDUIT C/W FISHCORD TO ACCESSIBLE CABLE TRAY.
- CR — CARD READER, ELECTRICAL CONTRACTOR TO CARRY ALLOWANCE AS PER FRONT END SPECIFICATION AND ELECTRICAL CONTRACTOR TO PROVIDE 21mm CONDUIT C/W FISHCORD TO ACCESSIBLE CABLE TRAY.
- RTE — REQUEST-TO-EXIT DEVICE, ELECTRICAL CONTRACTOR TO CARRY ALLOWANCE AS PER FRONT END SPECIFICATION AND ELECTRICAL CONTRACTOR TO PROVIDE 21mm CONDUIT C/W FISHCORD TO ACCESSIBLE CABLE TRAY.
- S — PROVIDE FIRE ALARM SPEAKER.
- WAP — WIRELESS ACCESS POINT, ELECTRICAL CONTRACTOR TO CARRY ALLOWANCE AS PER FRONT END SPECIFICATION AND ELECTRICAL CONTRACTOR TO PROVIDE CAT6 TO IT ROOM 072A.

NOTES:

1. PROVIDE BARRIER FREE DOOR OPERATOR CONNECTIONS. PROVIDE 21mm CONDUIT FROM DOOR OPERATOR TO EXISTING ACCESS CONTROL PANEL ATC AREA C/W ONE READER CABLE (6C-22AWG, SHIELDED STRANDED), ONE STRIKE CABLE (2C-18AWG STRANDED), ONE DOOR CONTACT CABLE (4C-24AWG, SHIELDED SOLID) AND ONE INTEGRATION CABLE (4C-22AWG STRANDED). THIS IS A 12VDC SYSTEM.
2. EXISTING ACCESS CONTROL PANEL ATC.
3. PROVIDE TWO NEW ATC ACCESS CONTROL PANEL TO MATCH EXISTING SYSTEM. WIRE TO MAIN SYSTEM TO ALLOW FOR A COMPLETE OPERABLE SYSTEM.

LIGHTING SCHEDULE

TYPE	MANUFACTURER	DESCRIPTION	CAT. NO.	DIMMING	NO. LAMPS	WATTS	LUMENS
A1	AXIS	4' SUSPENDED LINEAR FIXTURE C/W PHILIPS INSTANT FIT LAMPS	PHILIPS INSTANT FIT 13T8/MAS/48-835/IF20/P/DIM/10/1 PHILIPS TYPE C LED BALLAST ADVANCE 1ZT-232-SC@120 AXIS LT-VL-4FT-T8LED-2-W-0-0-120-D-1-C-D-C	0-10V	2	26	2100
A2	AXIS	8' SUSPENDED LINEAR FIXTURE C/W PHILIPS INSTANT FIT LAMPS	PHILIPS INSTANT FIT 13T8/MAS/48-835/IF20/P/DIM/10/1 PHILIPS TYPE C LED BALLAST ADVANCE 1ZT-232-SC@120 AXIS LT-VL-8FT-T8LED-2-W-0-0-120-D-1-C-D-C	0-10V	4	52	4200
A3	AXIS	12' SUSPENDED LINEAR FIXTURE C/W PHILIPS INSTANT FIT LAMPS	PHILIPS INSTANT FIT 13T8/MAS/48-835/IF20/P/DIM/10/1 PHILIPS TYPE C LED BALLAST ADVANCE 1ZT-232-SC@120 AXIS LT-VL-12FT-T8LED-2-W-0-0-120-D-1-C-D-C	0-10V	6	78	6300
B	AXIS	1X4' RECESSED TROFFER,FOR T - BAR C/W PHILIPS INSTANT FIT LAMPS	PHILIPS INSTANT FIT 13T8/MAS/48-835/IF20/P/DIM/10/1 PHILIPS TYPE C LED BALLAST ADVANCE 1ZT-232-SC@120 AXIS D/A-14-VL-T8LED-2-W-120-D-1-TB15-C	0-10V	2	26	2100
C	3G	150MM RECESSED LED DOWNLIGHT	3G LIGHTING 3G-DL45RF-15-580-35K-60D-120-DIM-WT-WI-NCF	0-10V	1	14	1405

A0 (33.1" x 46.8" | 841mm x 1189mm)

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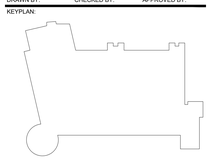

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DRAWING TITLE

LEGEND

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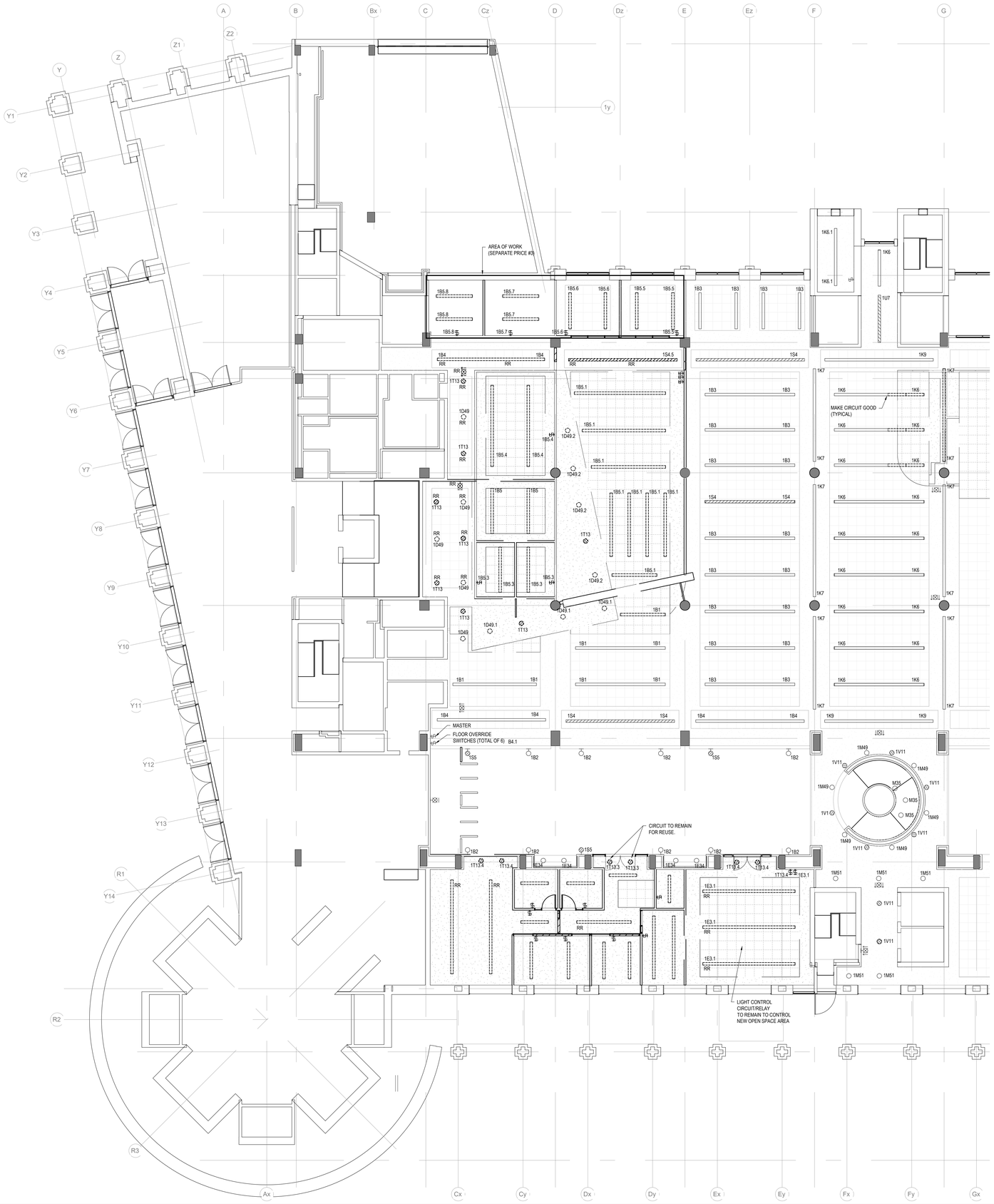

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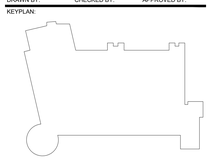

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GROUND FLOOR LIGHTING DEMOLITION PART 1

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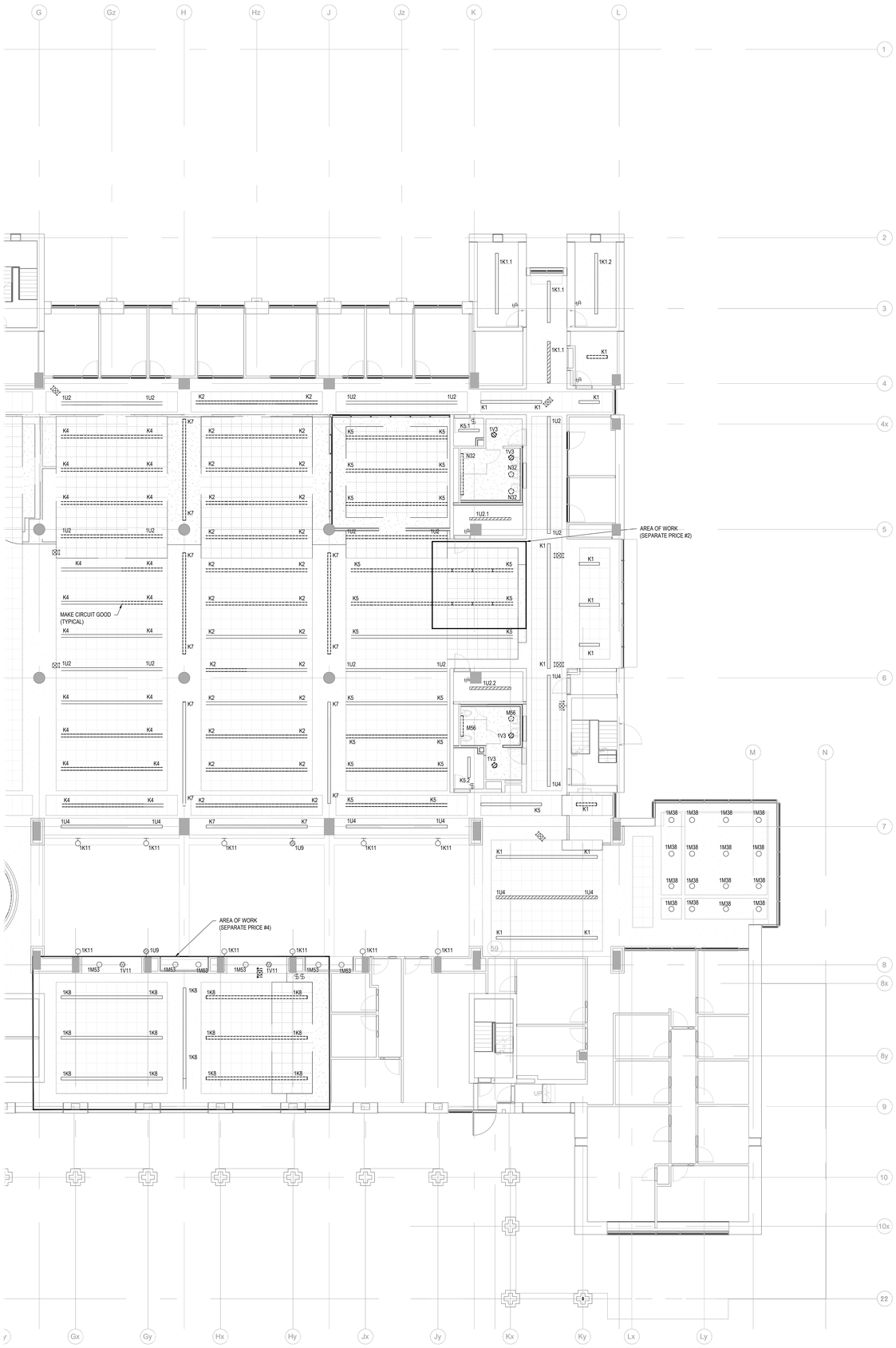

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GROUND FLOOR LIGHTING DEMOLITION PART 2

DRAWING NO. **E503**

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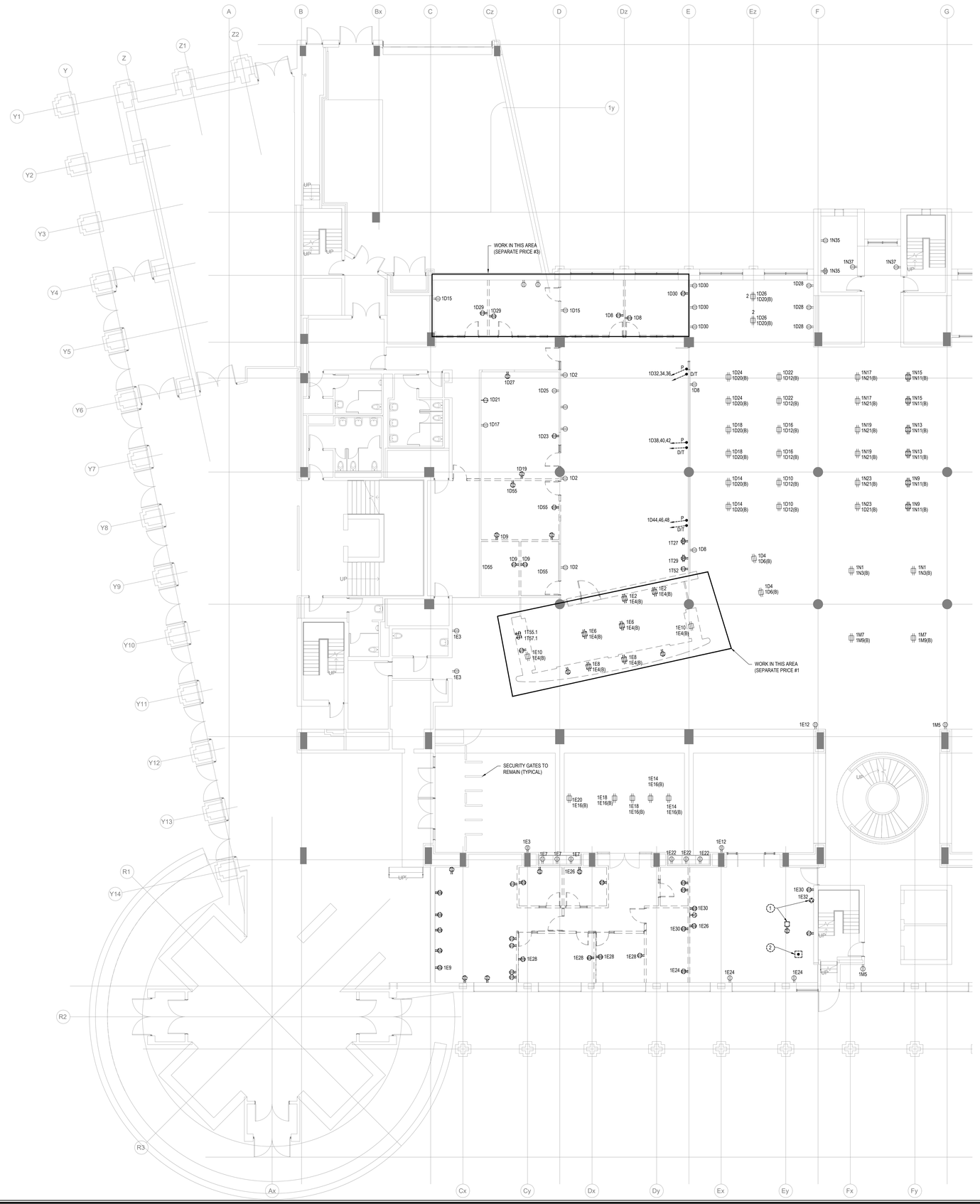

DRAWING NOTES

1. REMOVE RECEPTACLES/DATA OUTLETS FOR PROJECTOR/PROJECTOR SCREEN AND REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE
2. REMOVE 2-27mmC FROM PODIUM INCLUDING RECEPTACLES/DATA OUTLETS AND REMOVED CONDUIT AND WIRING BACK TO SOURCE
3. REMOVE HAND DRYER AND REMOVE CONDUIT AND WIRING BACK TO SOURCE
4. RELOCATE DISCONNECT SWITCH SERVING D.H.W.H AND REWORK CONDUIT AND WIRING AS REQUIRED

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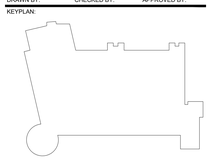

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GROUND FLOOR POWER DEMOLITION PART 1

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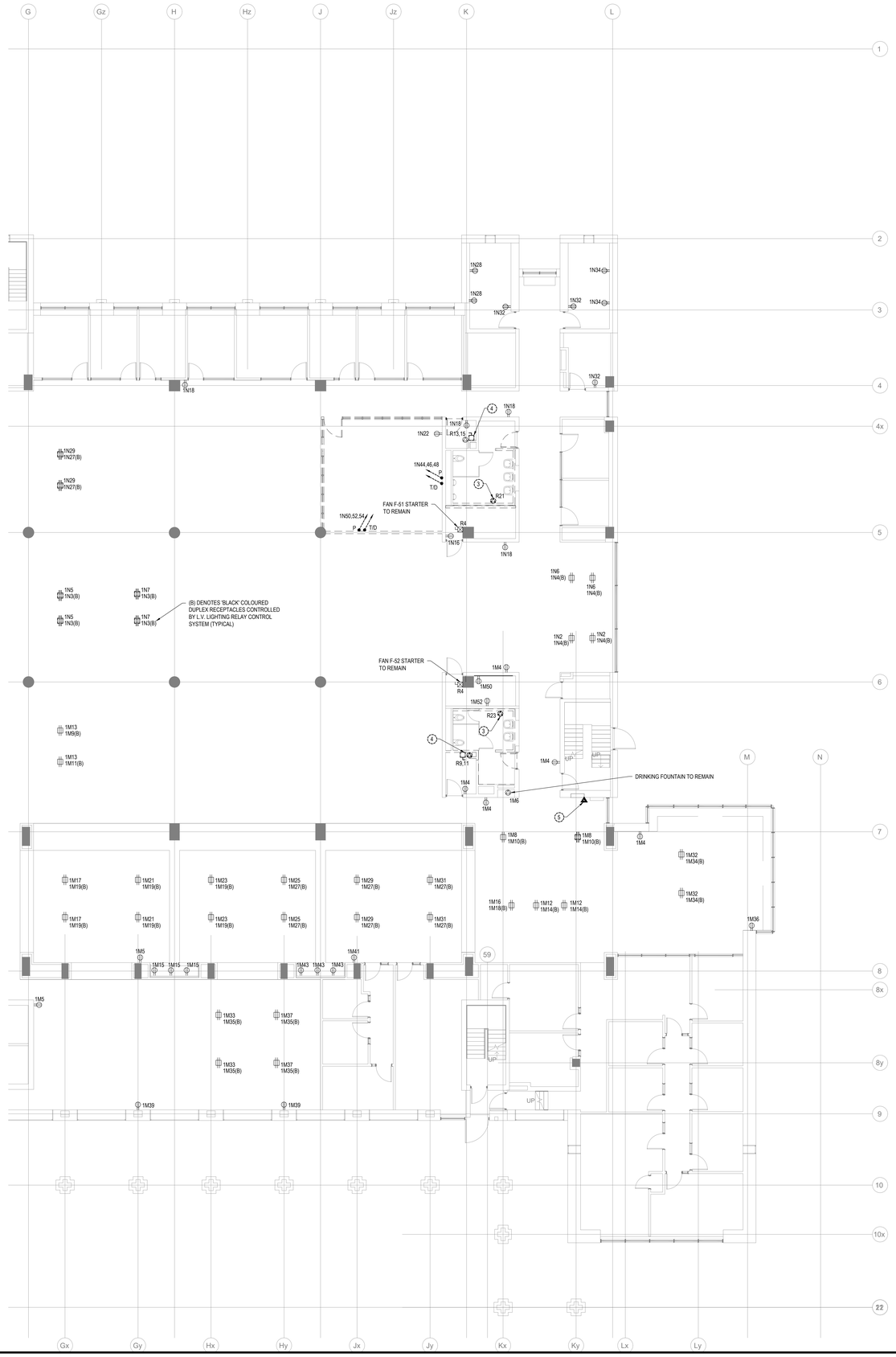

DRAWING NOTES

1. REMOVE RECEPTACLES/DATA OUTLETS FOR PROJECTOR/PROJECTOR SCREEN AND REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE
2. REMOVE 2-27mmC FROM PODIUM INCLUDING RECEPTACLES/DATA OUTLETS AND REMOVED CONDUIT AND WIRING BACK TO SOURCE
3. REMOVE HAND DRYER AND REMOVE CONDUIT AND WIRING BACK TO SOURCE
4. RELOCATE DISCONNECT SWITCH SERVING D.H.W.H AND REWORK CONDUIT AND WIRING AS REQUIRED

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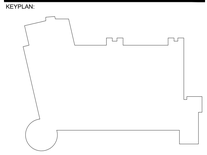

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GROUND FLOOR POWER DEMOLITION PART 2

DRAWING NO. **E505**

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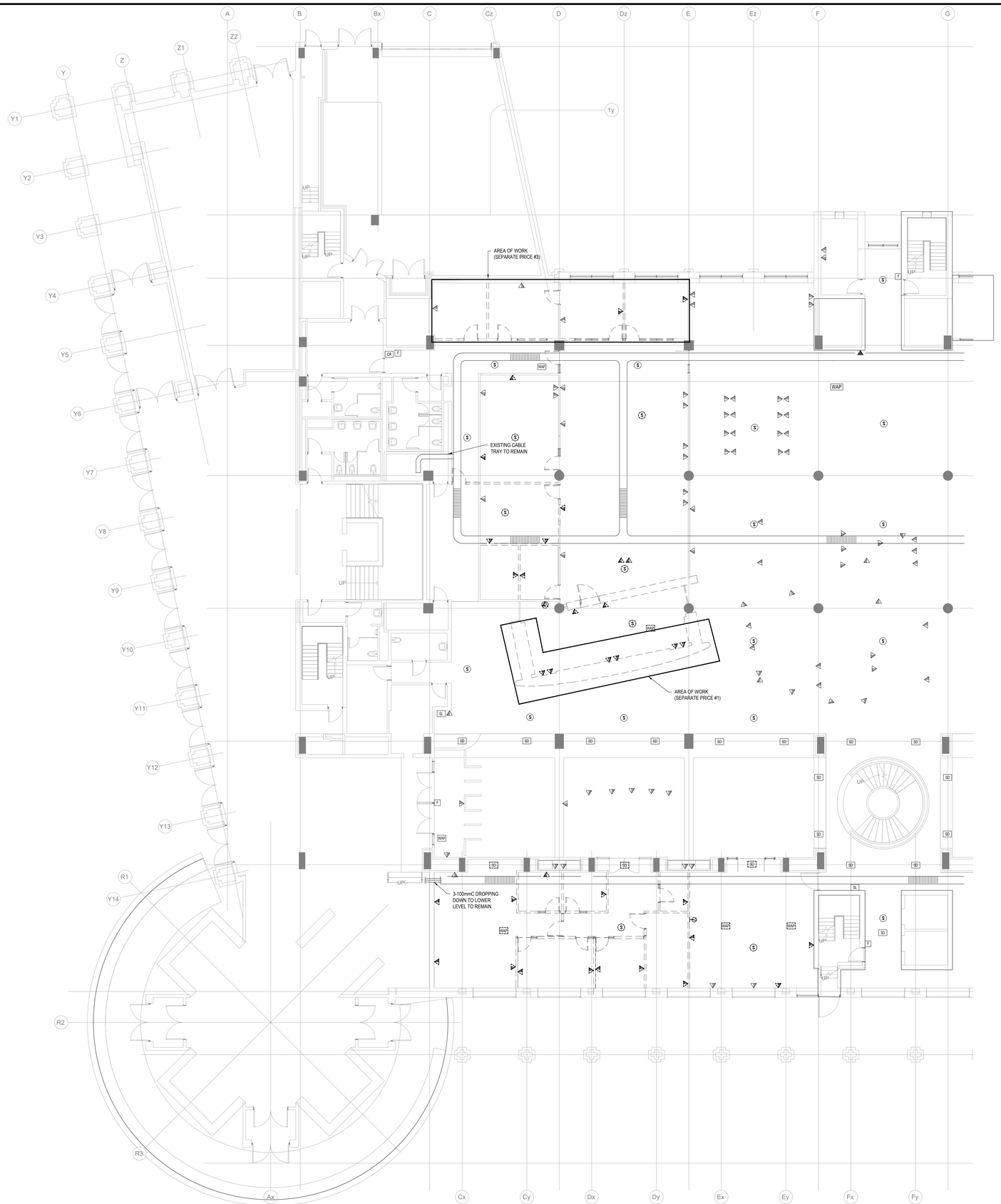

DRAWING NOTES

1. RELOCATE TELEPHONE OUTLET FOR EMERGENCY PHONE AND REWORK CONDUIT AND WIRING AS REQUIRED

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DRAWN BY: CHECKED BY: APPROVED BY:

KEYPLAN:

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GROUND FLOOR SYSTEM DEMOLITION PART 1

DRAWING NO. **E506**

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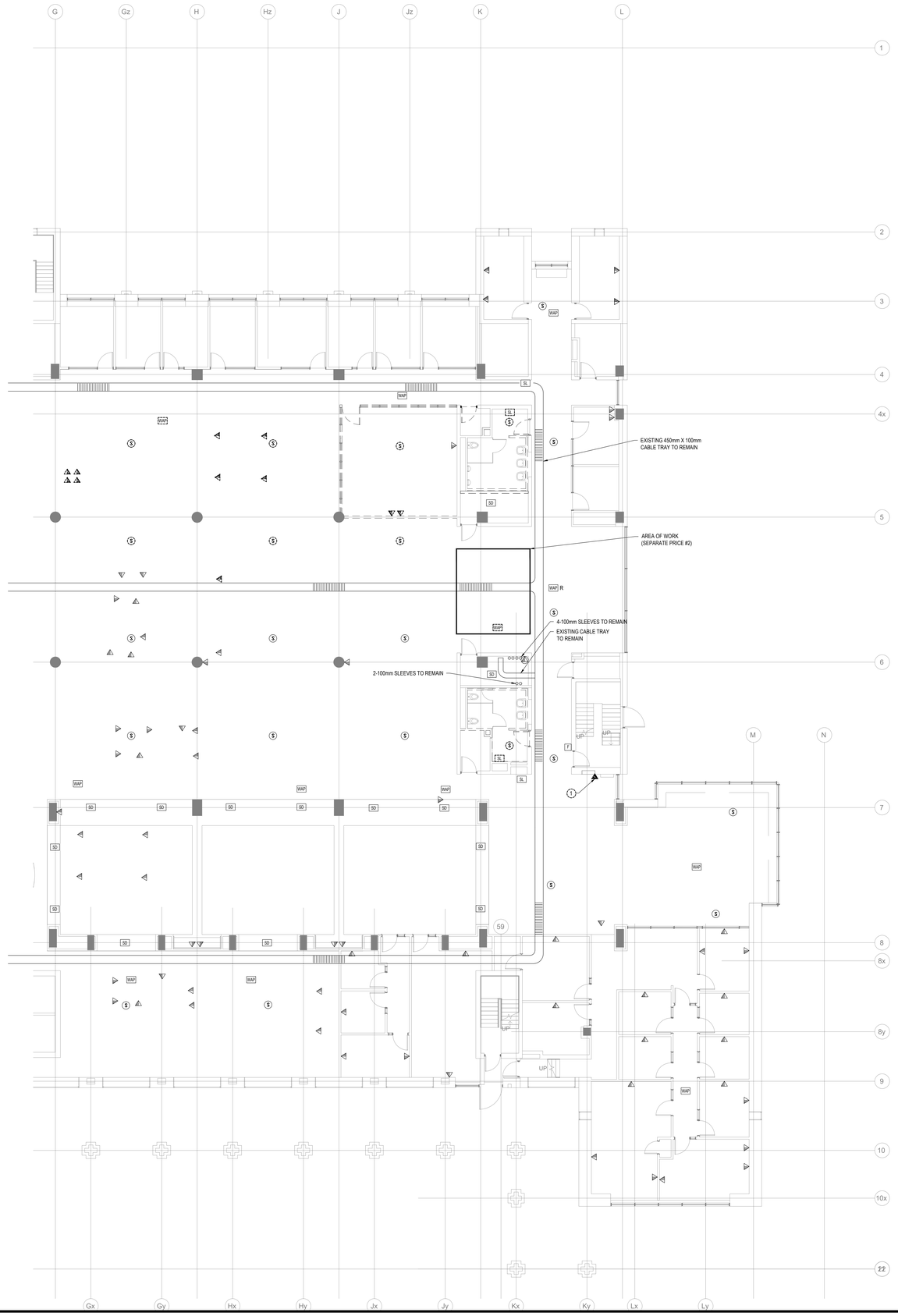

DRAWING NOTES

1. RELOCATE TELEPHONE OUTLET FOR EMERGENCY PHONE AND REWORK CONDUIT AND WIRING AS REQUIRED

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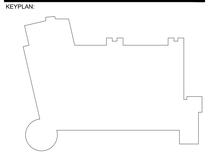
KEYPLAN:



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DRAWING TITLE

GROUND FLOOR SYSTEM DEMOLITION PART 2

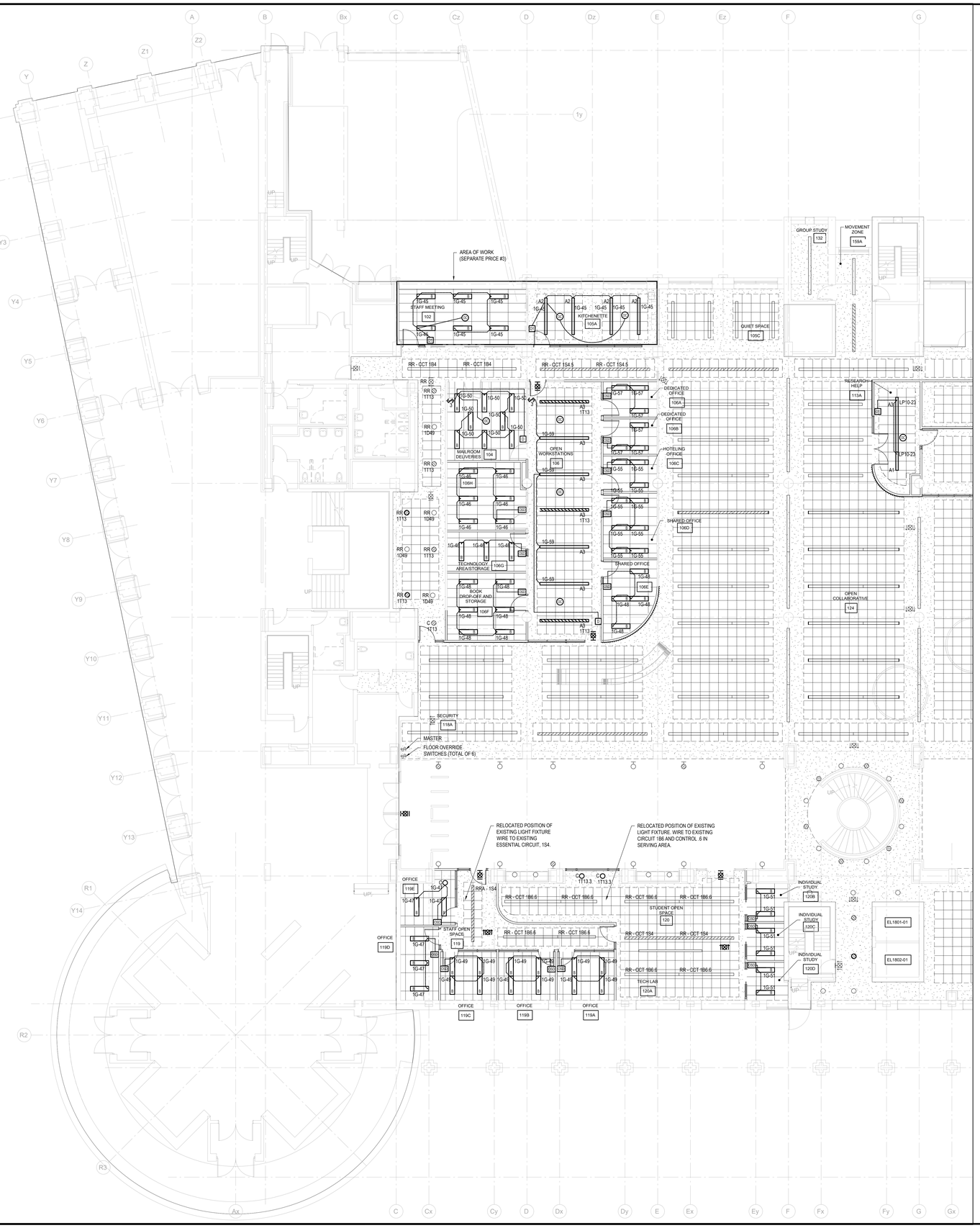
DRAWING NO. **E507**

PRINT DATE:

A0 (33.1" x 46.8" | 841mm x 1189mm)

1. CONTRACTOR TO ARRANGE AND PAY FOR 3RD PARTY TESTING OF ALL LIGHTING CONTROLS.
2. SUSPENSION LENGTHS TO BE DETERMINED ON SITE.
3. CONTRACTOR TO ALLOW FOR CUTTING AND RETHREADING OF ALL SUSPENSION RODS.

LIGHTING NOTES



A0 (33.1" x 46.8" | 841mm x 1189mm)

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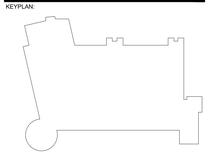
KEYPLAN:



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DRAWING TITLE

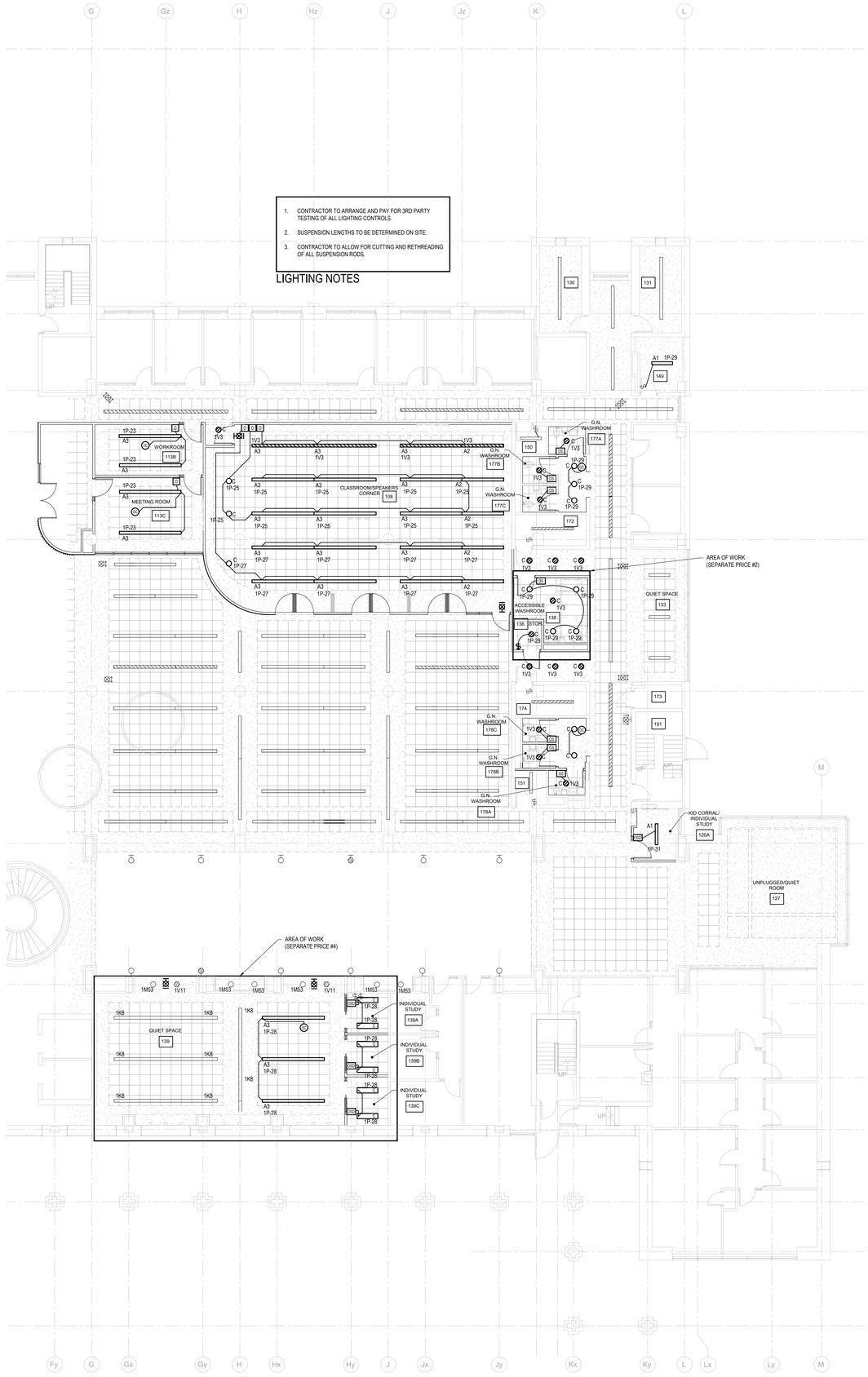
GROUND FLOOR LIGHTING LAYOUT PART 1

DRAWING NO. E510

PRINT DATE:

1. CONTRACTOR TO ARRANGE AND PAY FOR 3RD PARTY TESTING OF ALL LIGHTING CONTROLS.
2. SUSPENSION LENGTHS TO BE DETERMINED ON SITE.
3. CONTRACTOR TO ALLOW FOR CUTTING AND RETHREADING OF ALL SUSPENSION RODS.

LIGHTING NOTES



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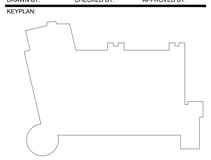

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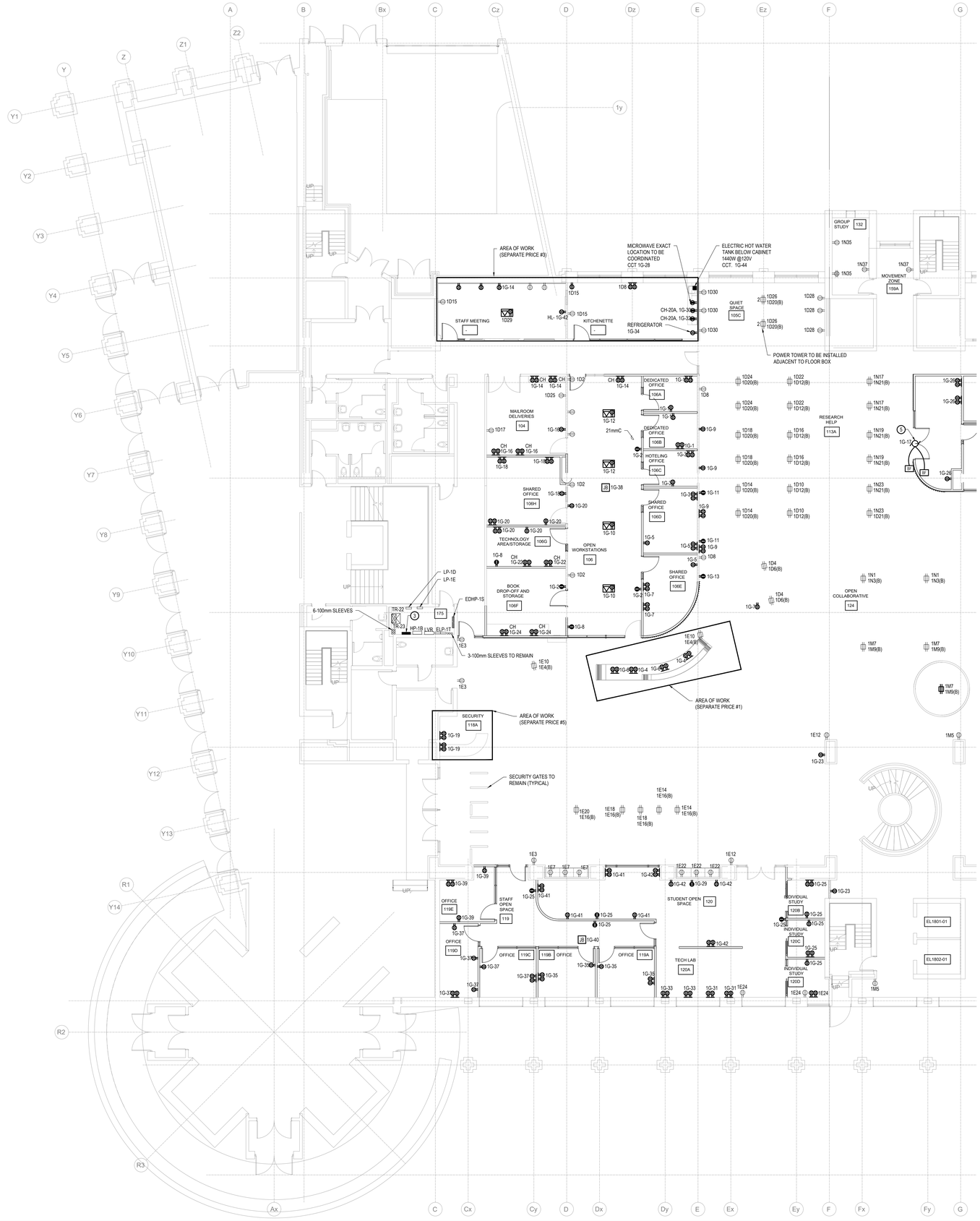
DRAWING TITLE

GROUND FLOOR LIGHTING LAYOUT PART 2

DRAWING NO. **E511**

PRINT DATE:



DRAWING NOTES

1. RELOCATED DISCONNECT SWITCH SERVING D.H.W.H
2. RELOCATED TELEPHONE OUTLET FOR EMERGENCY PHONE
3. PROVIDE 100A-120/208V-3PH-4W PANEL LP-1G FED FROM LP-1D. FEED USING 4#1 & 1#6BD CU IN 53 EMT
4. PROVIDE 100A-120/208V-3PH-4W PANEL LP-1P FED FROM LP-1M. FEED USING 4#1 & 1#6BD CU IN 53 EMT
5. PROJECTOR SUPPORTS BY PROJECTOR SUPPLIER. COORDINATE LOCATION OF PROJECTOR WITH ARCHITECT AND PROJECTOR SUPPLIER.

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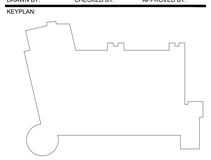

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DRAWING TITLE

GROUND FLOOR POWER LAYOUT PART 1

DRAWING NO. **E512**

PRINT DATE:

A0 (33.1" x 46.8" | 841mm x 1189mm)

DRAWING NOTES

1. RELOCATED DISCONNECT SWITCH SERVING D.H.W.H
2. RELOCATED TELEPHONE OUTLET FOR EMERGENCY PHONE
3. PROVIDE 125A-120/208V-3PH-4W PANEL LP-1G FED FROM LP-1D
4. PROVIDE 125A-120/208V-3PH-4W PANEL LP-1P FED FROM LP-1M
5. PROJECTOR SUPPORTS BY PROJECTOR SUPPLIER. COORDINATE LOCATION OF PROJECTOR WITH ARCHITECT AND PROJECTOR SUPPLIER.

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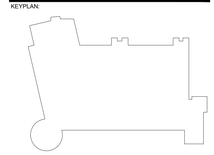

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QUEEN'S UNIVERSITY STAUFFER LIBRARY RENOVATION

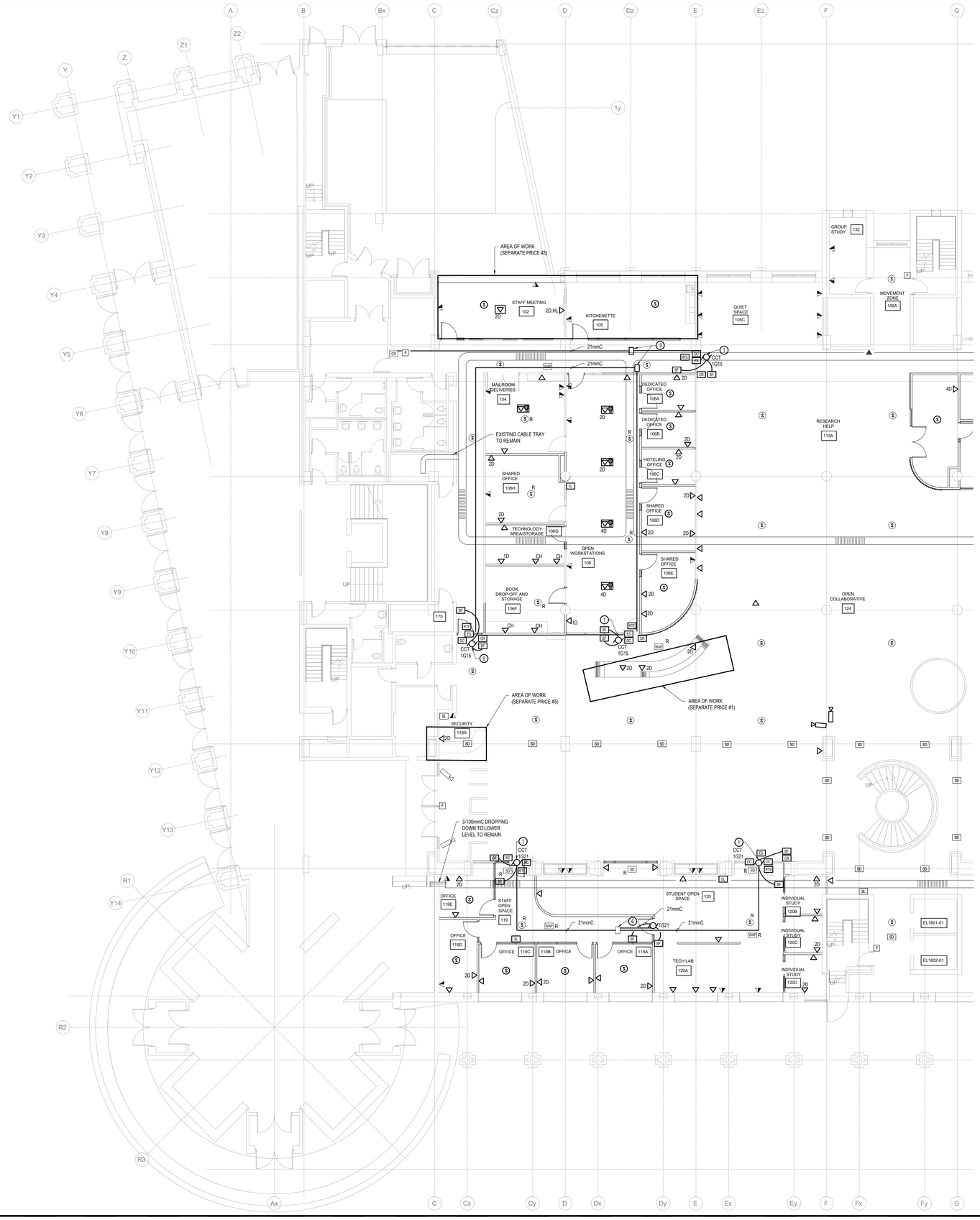
DRAWING TITLE

GROUND FLOOR POWER LAYOUT PART 2

DRAWING NO. **E513**

PRINT DATE:

A0 (33.1" x 46.8" | 841mm x 1189mm)



AD (33.1" x 46.8" | 841mm x 1189mm)

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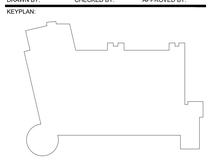
KEYPLAN:



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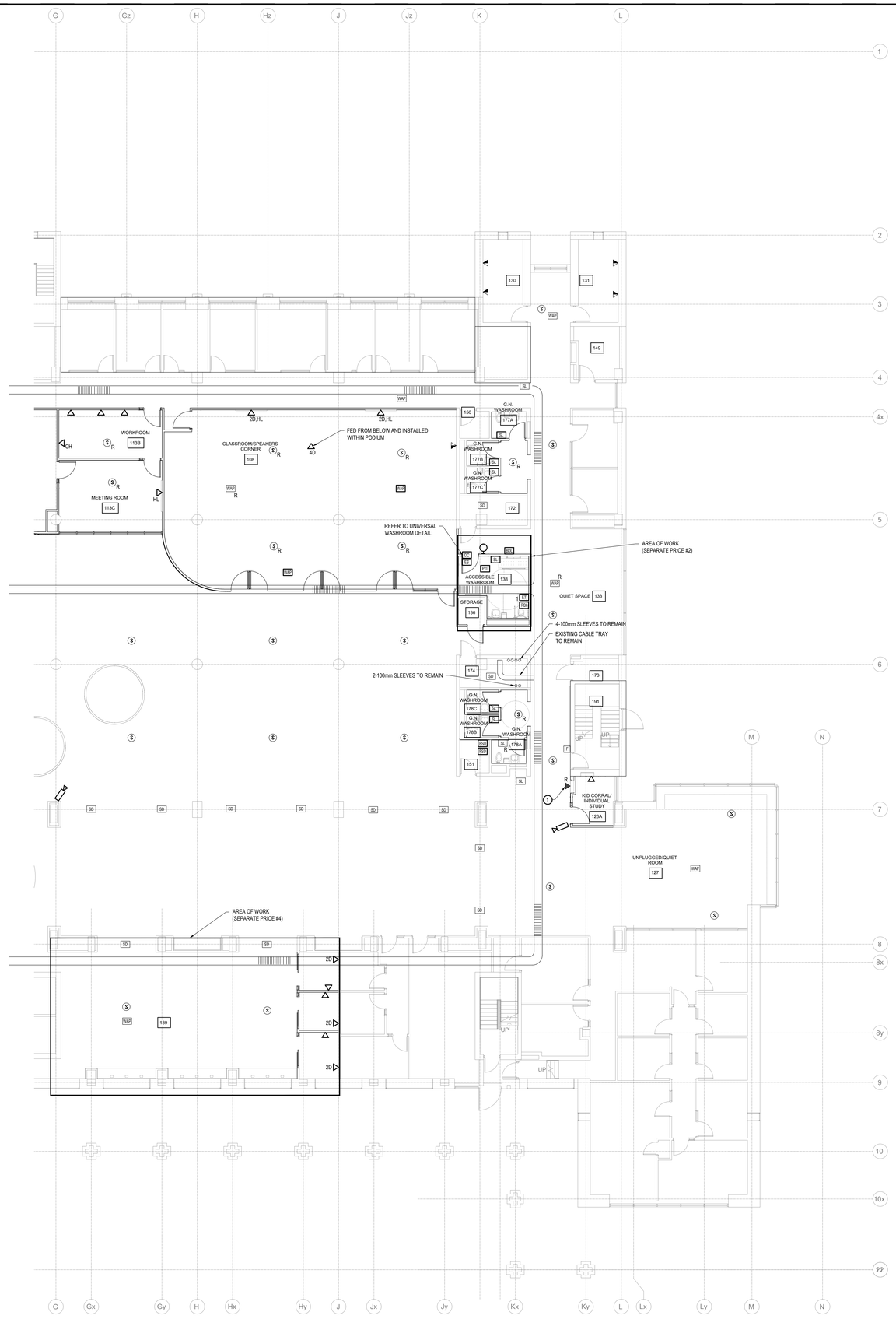
DRAWING TITLE

GROUND FLOOR SYSTEM LAYOUT PART 1

DRAWING NO. **E514**

PRINT DATE:



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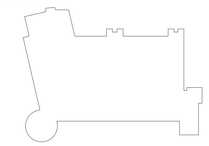
KEYPLAN:



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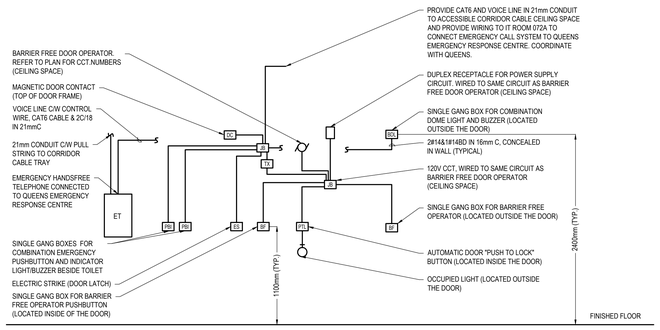
DRAWING TITLE

GROUND FLOOR SYSTEM LAYOUT PART 2

DRAWING NO. **E515**

PRINT DATE:

A0 (33.1" x 46.8" | 841mm x 1189mm)



1. POWER SUPPLY TO BE MOUNTED IN THE CEILING WHERE POSSIBLE.
2. ALL WALL MOUNTED MATERIAL IS TO HAVE WIRING BROUGHT BACK TO THE POWER SUPPLY BOX.
3. LOW VOLTAGE AND HIGH VOLTAGE WIRING ARE NOT TO BE RAN TOGETHER.
4. ONE 15A CIRCUIT IS NEEDED FOR THE POWER SUPPLY BOX.
5. BUTTON LOCATIONS ARE TO BE CENTERED 1100mm FROM FINISHED FLOOR LEVEL OR AS INDICATED ON ARCHITECTURAL DRAWINGS/DETAILS.
6. INTERIOR BUTTONS ARE TO BE NO CLOSER THAN 600mm FROM THE DOOR ON EITHER SIDE OF THE ROOM.
8. BACKBOXES, CONDUITS AND 120V CIRCUIT BY THIS TRADE.
9. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND ELEVATION.
10. ENSURE ENTRANCE DOOR CAN BE OVER RIDDEN FROM THE EXTERIOR USING A SIMPLE TOOL.
11. IF ALTERNATE DOOR CONTROLS ARE PROVIDED AND APPROVED IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL CONDUIT AND WIRING REQUIREMENTS WITH MANUFACTURER SPECIFICATIONS.
12. COMBINATION DOME LIGHT AND BUZZER STANDARD OF ACCEPTANCE: CAMDEN DOOR CONTROLS MODEL# CM-AF1415O OR APPROVED EQUIVALENT. FOR USE OUTSIDE THE WASHROOM. WEATHER AND VANDAL RESISTANT, RED LED ILLUMINATION, 93DB PIEZO SOUNDER WITH VOLUME ADJUSTMENT.

COMBINATION EMERGENCY PUSHBUTTON AND INDICATOR LIGHT/BUZZER STANDARD OF ACCEPTANCE: CAMDEN DOOR CONTROLS MODEL# CM-AF540SO OR APPROVED EQUIVALENT.

ADVANCED LOGIC RELAY CONTROLLER STANDARD OF ACCEPTANCE: CAMDEN DOOR CONTROLS MODEL# CX-33 OR APPROVED ALTERNATE. MINIMUM 5 INPUTS INCLUDING A 'WET' INPUT, CAN BE USED WITH NORMALLY LOCKED OR UNLOCKED WASHROOMS

POWER SUPPLY STANDARD OF ACCEPTANCE: LAB-PS241F-12-24VDC/1.0A POWER SUPPLY C/W BUILT-IN GELL CELL BATTERY CHARGER, AUTOMATIC SWITCHOVER TO STANDBY BATTERY IN CASE OF AC POWER FAILURE & JUNCTION BOX, OR APPROVED EQUIVALENT.

TRANSFORMER STANDARD OF ACCEPTANCE: TP4016 PLUG-IN TRANSFORMER 120/16VAC 40VA OR APPROVED EQUIVALENT.

OCCUPIED LIGHT STANDARD OF ACCEPTANCE: CAMDEN DOOR CONTROLS MODEL# CM-AF500 OR APPROVED EQUIVALENT.

AUTOMATIC DOOR "PUSH TO LOCK" BUTTON STANDARD OF ACCEPTANCE: CAMDEN DOOR CONTROLS MODEL# CM-AF45/8 OR APPROVED EQUIVALENT.

MAGNETIC DOOR CONTACT STANDARD OF ACCEPTANCE: CAMDEN DOOR CONTROLS MODEL# CX-MDA

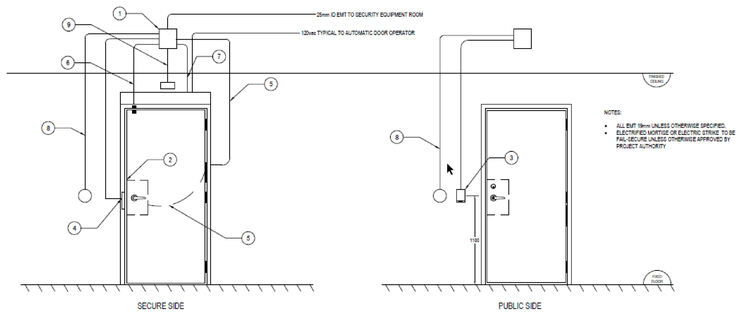
UNIVERSAL ELECTRIC STRIKE STANDARD OF ACCEPTANCE: CAMDEN DOOR CONTROLS MODEL# CX-ED2079

EMERGENCY TELEPHONE STANDARD OF ACCEPTANCE: GAI-TRONICS MODEL# 397-001

EMERGENCY RESPONSE CENTRE TIE-IN SEQUENCE

1. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUIT AND WIRING FROM UNIVERSAL WASHROOM CALL SYSTEM AND EMERGENCY TELEPHONE TO IT ROOM.
2. ELECTRICAL CONTRACTOR TO PROGRAM AND TEST EMERGENCY ALARMS AND DOOR CONTROLS.
3. ELECTRICAL CONTRACTOR TO COORDINATE WITH QUEENS ITS' CAMPUS SECURITY TO ACTIVATE AND TEST TO PUT EMERGENCY CALL SYSTEM IN SERVICE WITH EMERGENCY RESPONSE CENTRE (ERC) AND COORDINATE SECURITY.
4. EMERGENCY CALL TO BE PLACED IF EITHER THE EMERGENCY TELEPHONE IS PRESSED OR THE EMERGENCY PUSHBUTTON IS PRESSED. EMERGENCY SIGNAL TO BE SENT AND DOOR TO BE UNLOCKED.

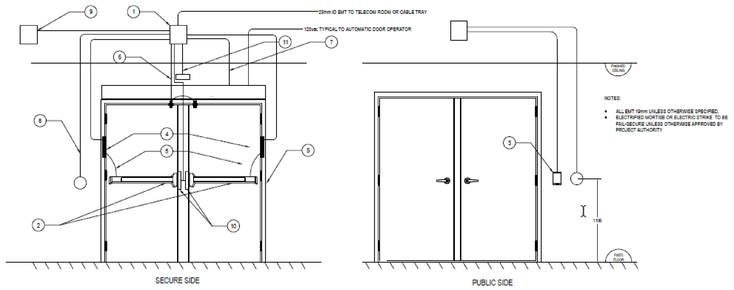
1 E520 UNIVERSAL WASHROOM SCHEMATIC DIAGRAM
SCALE: NTS



DOOR TYPE F1D - SINGLE DOOR WITH CARD ACCESS / ELECTRIFIED MORTISE SET - AUTOMATIC DOOR OPERATOR OPTION

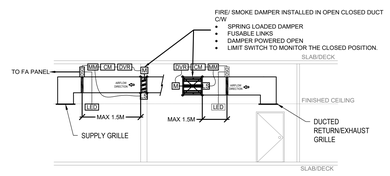
1. SECURITY JUNCTION BOX (SJB) PROVIDE 305x305x100mm JB W/ SCREW COVER ABVOVE DOOR ON SECURE SIDE FOR SECURITY CONTROLLER.
2. ELECTRIFIED MORTISE LOCK (IF EQUIPPED)
3. CARD READER - SINGLE GANG BACKBOX AT 1100mm AFF OR AS PER EXISTING.
4. ELECTRIC STRIKE (IF EQUIPPED). PROVIDE STRIKE GUARD IF DOOR IS OUT-SWINGING.
5. TO ELECTRIC TRANSFER HINGE (IF EQUIPPED) - PROVIDE PATH THROUGH DOOR @ 16mm MIN DIAMETER
6. PROVIDE CONDUIT AND PREP DOOR AND FRAME FOR FLUSH 1" DOOR CONTACT @ 25MM FROM LATCH SIDE
7. PROVIDE 19mm TIE BETWEEN SJB AND AUTOMATIC DOOR OPERATOR (IF EQUIPPED)
8. ADO ACTUATION PADDLES, PROVIDE DPDT PADDLE ON SECURE SIDE.
9. PROVIDE CONDUIT AND SINGLE GANG BOX MOUNTED HORIZONTALLY ABOVE DOOR FOR REQUEST TO EXIT MOTION DETECTOR (IF EQUIPPED)
10. PROVIDE FIRE ALARM CONTROL MODULE TO DE-ACTIVATE DOOR OPERATOR DURING A FIRE ALARM

2 E520 SINGLE DOOR ACCESS CONTROL DIAGRAM
SCALE: NTS



1. SECURITY JUNCTION BOX (SJB) PROVIDE 305x305x100mm JB W/ SCREW COVER ABOVE DOOR ON SECURE SIDE FOR SECURITY CONTROLLER.
2. EXIT DEVICE WITH ELECTRIC LATCH RETRACTION (x2) - (IF EQUIPPED)
3. CARD READER - SINGLE GANG BACKBOX AT 1100mm AFF OR AS PER EXISTING
4. ELECTRIFIED TRANSFER HINGE (IF EQUIPPED)
5. PROVIDE 16mm PATH TO ELECTRIFIED EXIT BAR (IF EQUIPPED) @ 16mm MIN DIAMETER
6. PROVIDE CONDUIT AND FACTORY PREP DOOR AND FRAME FOR FLUSH 1" DOOR CONTACT @ 25MM FROM LATCH SIDE
7. PROVIDE 19mm EMT TIE BETWEEN SJB AND AUTOMATIC DOOR OPERATOR (IF EQUIPPED)
8. ADO ACTUATION PADDLES, PROVIDE DPDT PADDLE ON SECURE SIDE.
9. LOCAL POWER SUPPLY REQUIRED FOR DOUBLE ELECTRIFIED LATCH RETRACTION. (IF EQUIPPED) SUPPLY AS PER MANUFACTURERS RECOMMENDATION. PROVIDE 120VAC DIRECTLY TO POWER SUPPLY.
10. ELECTRIC STRIKE (IF EQUIPPED)
11. PROVIDE SINGLE GANG BOX MOUNTED HORIZONTALLY FOR REQUEST TO EXIT MOTION DETECTOR.
12. PROVIDE FIRE ALARM CONTROL MODULE TO DE-ACTIVATE DOOR OPERATOR DURING A FIRE ALARM

3 E520 DOUBLE DOOR ACCESS CONTROL DIAGRAM
SCALE: NTS



GENERAL NOTES:

A. DEVICES SHOWN BELOW DO NOT IDENTIFY TOTAL QUANTITIES REQUIRED AND ARE SHOWN FOR GENERAL CONNECTION AND CONTROL INTENT. DEVICES AND LOCATIONS TO BE COORDINATED WITH DRAWINGS, SPECIFICATIONS, OBC, CAN/ULC S524 AND MECHANICAL CONTRACTOR.

NOTES:

1. FIRE/SMOKE DAMPERS IN HVAC SYSTEM TO CLOSE WHEN DE-ENERGIZED ON SMOKE DETECTOR, OR DUCT TYPE SMOKE DETECTOR ACTIVATION. ANY DETECTOR WITHIN AN HVAC SYSTEM SHALL SHUTDOWN HVAC EQUIPMENT WITHIN SYSTEM INCLUDING BUT NOT LIMITED TO AIR HANDLING UNITS, ROOF TOP UNITS, MAKE UP AIR UNITS, ETC.
2. FIRE/SMOKE DAMPER TO CLOSE ON LOSS OF POWER.
3. POWER TO HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO AIR HANDLING UNITS, ROOF TOP UNITS, MAKE UP AIR UNITS, ETC., TO DE-ENERGIZE ON SMOKE DETECTOR, OR DUCT TYPE SMOKE DETECTOR ACTIVATION.
4. MONITORING MODULES TO MONITOR END SWITCH FOR CLOSED POSITION STATUS OF COMBINATION FIRE/SMOKE DAMPER. WHEN DAMPER IS DETECTED IN CLOSED POSITION, FIRE ALARM SYSTEM SHALL SHUTDOWN HVAC EQUIPMENT WITHIN HVAC SYSTEM.
5. DUAL VOLTAGE RELAYS POWERED BY FIRE ALARM SYSTEM WITH 120V RATED CONTACTS SUITABLE FOR SWITCHING CONNECTED LOAD.
6. DUAL VOLTAGE RELAYS POWERED BY FIRE ALARM SYSTEM WITH 600V RATED CONTACTS SUITABLE FOR SWITCHING CONNECTED LOAD.

4 E520 FIRE SMOKE DAMPER DETAIL
SCALE: NTS

A0 (33.1" x 46.8" | 841mm x 1189mm)

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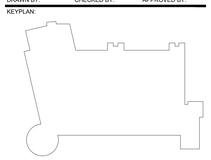
KEYPLAN:



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DRAWING TITLE

ELECTRICAL DETAILS

DRAWING NO. **E520**

PRINT DATE:

KW	LEG	DESCRIPTION	BKR	CCT #	CCT #	BKR	DESCRIPTION	LEG	KW
-	-	EXISTING CIRCUIT	15	1	2	15	REC. (3) 106	P	-
-	-	EXISTING CIRCUIT	15	3	4	15	REC. (2) FLOOR 123 CIRC. DESK	P	-
-	-	EXISTING CIRCUIT	15	5	6	15	LTG. 123	L	-
-	-	EXISTING CIRCUIT	15	7	8	20	REC. (4) 113/123/105A/105B PRINTER	P	-
-	-	EXISTING CIRCUIT	15	9	10	15	REC. FLOOR 113	P	-
-	P	REC. (3) 110/110/109	15	11	12	15	LTG. 113 FIR REC.	L	-
-	P	REC. (1) ELECT. RM. 117, 175	15	13	14	15	REC. FLOOR 113	P	-
-	P	REC. (5) 115/182A/116/117A	15	15	16	15	REC. FLOOR 113	P	-
-	P	REC. (4) 115/102/105A	15	17	18	15	REC. FLOOR 113	P	-
-	P	REC. (1) PHOTOCOPY RM.	15	19	20	15	LTG. 113	L	-
-	P	REC. (1) PHOTOCOPY RM.	20	21	22	15	REC. FLOOR 113	P	-
-	P	REC. (1) PHOTOCOPY RM.	15	23	24	15	REC. FLOOR 113	P	-
-	P	REC. (1) PHOTOCOPY RM., COMPUTER OUTLET IN SOUTH WALL	15	25	26	15	REC. FLOOR 105C/105D	P	-
-	P	REC. (1) PHOTOCOPY RM.	15	27	28	15	REC. (4) 105C/105D	P	-
-	H	REC. (5) 103/101C/189A/154 WEST UNIT HTR	15	29	30	15	REC. (4) 105B/105C	P	-
-	P	REC. (1) 117A	15	31	32	15	WEST SYSTEM FURNITURE	P	-
-	P	REC. (3) 117B	15	33	34	15	WEST SYSTEM FURNITURE	P	-
-	P	REC. (2) 117A	15	35	36	15	WEST SYSTEM FURNITURE	P	-
-	L	DIMMER PANEL DR-1	100	37	38	15	CENTRE SYSTEM FURNITURE	P	-
				39	40	15	CENTRE SYSTEM FURNITURE	P	-
			3P	41	42	15	SYSTEM FURNITURE	P	-
-	L	LTG. 115	15	43	44	15	NORTH SYSTEM FURNITURE - CIRC. WALL	P	-
-	L	LTG. LOGGIA	15	45	46	15	NORTH SYSTEM FURNITURE - CIRC. WALL	P	-
-	L	LTG. WASHROOM	15	47	48	15	NORTH SYSTEM FURNITURE - CIRC. WALL	P	-
-	P	REC. (9) 189A/166/187/106/112	15	49	50	100	PANEL LP-IE	-	-
-	P	DRINKING FOUNTAIN	15	51	52				
-	P	REC. (3) 117D/101B/101A	15	53	54	3P			
-	P	REC. (4) 1109/110/111	15	55	56	15	FRONT END OF CANOPY LTG. RELAY 31	L	-
-	P	REC. (1) 1TEL. RM. 176	15	57	58	15	PHOTOCOPIER FRONT ENTRANCE	P	-
-	P	REC. (1) 1TEL. RM. 176	15	59	60	15	SYSTEM FURNITURE CIRCULATION	P	-
-	L	PANEL IC	100	61	62	100	**TRANSFER EXISTING CIRCUIT TO NEW PANEL 1G PROVIDE 100A-3P BREAKER TO FEED NEW PANEL 1G FEED USING 4#1 & 1#6BD CU IN 53 EMT**	-	-
				63	64				
			3P	65	66	3P			

TYPE: SQUARED D QDL4664LCJ SER. 1 | SHORT CIRCUIT RATING: -

MAINS RATING: 400A | MAIN BREAKER C/W BARRIER: N/A

VOLTAGE RATING: 120/208v-3Ø-4W | FED FROM: TR-22 (112.5)

LEGEND:

P-POWER, H-HEATING, L-LIGHTING, M-MOTOR, *-GFCI BKR

EXISTING PANEL LDP-1D — LOCATION: ROOM #175

KW	LEG	DESCRIPTION	BKR	CCT #	CCT #	BKR	DESCRIPTION	LEG	KW
-	P	EXISTING CIRCUIT	15	1	2	15	REC. (1) ELECTRICAL ROOM	P	-
-	P	EXISTING CIRCUIT	15	3	4	15	REC. (3) 128/163/151	P	-
-	P	REC. (4) 123/125/126/165	15	5	6	15	DRINKING FOUNTAIN	P	-
-	P	REC. FLOOR 123	15	7	8	15	REC. FLOOR 164	P	-
-	L	LTG. 123	15	9	10	15	LTG. 164	L	-
-	P	LTG. 123	15	11	12	15	REC. FLOOR 127	P	-
-	P	REC. FLOOR 123	15	13	14	15	LTG. 127 & FLOOR REC	L/P	-
-	P	REC. (3) 123	15	15	16	15	REC. FLOOR 127	P	-
-	P	REC. FLOOR 125	15	17	18	15	LTG. 127 FLOOR REC.	L/P	-
-	L	LTG. 125	15	19	20	15	REC. (4) FLOOR 133P	L	-
-	P	REC. FLOOR 125	20	21	22	15	REC. (2) GRAD WING	P	-
-	P	REC. FLOOR 125	15	23	24	15	REC. FLOOR GRAD WING	P	-
-	P	REC. FLOOR 125	15	25	26	15	LTG. GRAD WING	L	-
-	L	LTG. 125	15	27	28	15	REC. FLOOR GRAD. WING	P	-
-	P	REC. FLOOR 125	15	29	30	15	LTG.. (4) 105B/105C	L	-
-	P	REC. FLOOR 125	15	31	32	15	REC. FLOOR GRAD WINGS	P	-
-	P	REC. FLOOR 126	15	33	34	15	LTG. GRAD WING	P	-
-	L	LTG. 126	15	35	36	15	REC. (3) GRAD WING	P	-
-	P	REC. FLOOR 126	15	37	38	15	LTG. GRAD WING POT	L	-
	P	REC. (3) 165/126	15	39	40	15	WASHROOM LTG	L	-
	P	REC. (3) 133C	15	41	42	15	EXISTING CIRCUIT	P	-
-	P	REC. (4) 125/133C	15	43	44	100	PANEL LP-1N	P	-
-	P	REC. PHOTOCOPIER	20	45	46				
-	P	EXISTING CIRCUIT	15	47	48	3P			
-	L	LTG. STAIR #9 CENTRE STAIRS	15	49	50	15	REC. (1) TELECOM RM. 174	P	-
-	L	LTG. ELEVATOR LOBBY	15	51	52	15	REC. (1) TELECOM RM. 174	P	
-	L	LTG. 125/192	15	53	54	15	SPARE		
-	P	EXISTING CIRCUIT	15	55	56	100	PANEL RP-D	P	-
-	P	EXISTING CIRCUIT	15	57	58				
-	-	SPACE	-	59	60	3P			
-	L	EXISTING CIRCUIT	15	61	62	100	**PANEL 1P PROVIDE 100A-3P BREAKER FEED USING 4#1 & 1#6BD CU IN 53 EMT**	P	-
	P	EXISTING CIRCUIT	15	63	64				
	P	EXISTING CIRCUIT	15	65	66	3P			

TYPE: SQUARED D QDL4664LCJ SER. 1 | SHORT CIRCUIT RATING: -

MAINS RATING: 400A | MAIN BREAKER C/W BARRIER: N/A

VOLTAGE RATING: 120/208v-3Ø-4W | FED FROM: HDP-1K CCT. 25,27,29 TR-25 (112.5)

LEGEND:

P-POWER, H-HEATING, L-LIGHTING, M-MOTOR, *-GFCI BKR

EXISTING PANEL LDP-1M — LOCATION: ROOM #172

KW	LEG	DESCRIPTION	BKR	CCT #	CCT #	BKR	DESCRIPTION	LEG	KW
0.6	P	OFFICE 106A AND 106B	15	1	2	20	HOUSEKEEPING OFFICE 106 AND 106F	P	0.3
0.5	P	OFFICE 106C AND 106D	15	3	4	15	RECEPTION DESK	P	0.4
0.4	P	OFFICE 106D AND 106E	15	5	6	15	RECEPTION DESK	P	0.4
0.5	P	OFFICE 106E AND OPEN AREA ON COLUMN	15	7	8	20	PRINTER IN OPEN OFFICE 106 & ROOM 106G	P	0.6
0.6	P	DESKS IN OPEN AREA	15	9	10	15	DESK OFFICE 106	P	0.4
0.6	P	PRINTER IN OPEN AREA	15	11	12	15	DESK OFFICE 106	P	0.4
0.6	P	PRINTER IN OPEN AREA	15	13	14	15	DESK OFFICE 106 AND ROOM 104	P	0.6
0.3	P	DOOR OPERATORS	15	15	16	15	ROOM 104	P	0.5
0.3	P	DOOR OPERATORS	15	17	18	15	OFFICE 106H	P	0.5
0.4	P	SECURITY AREA - DESK 118A	15	19	20	15	OFFICE 106H AND ROOM 106G	P	0.6
0.3	P	DOOR OPERATORS	15	21	22	15	ROOM 106G	P	0.4
0.2	P	OPEN AREA INTERACTIVE MAP	15	23	24	15	ROOM 106F	P	0.4
0.7	P	OFFICE 120B, 120C AND 120D	15	25	26	15	OFFICE 113A	P	0.5
0.4	P	HOUSEKEEPING IN CORR. 119 AND 120	20	27	28	15	KITCHENETTE MICROWAVE	P	0.5
0.1	P	PRINTER ROOM 120	20	29	30	20	KITCHENETTE COUNTER	P	0.2
0.4	P	OFFICE 120A	15	31	32	20	KITCHENETTE COUNTER	P	0.2
0.4	P	OFFICE 120A	15	33	34	15	KITCHENETTE REFRIGERATOR	P	0.7
0.6	P	OFFICE 119A AND 119B	15	35	36	15	STAFF MEETING	P	0.6
0.6	P	OFFICE 119C AND 119D	15	37	38	15	JUNCTION BOX FOR BAS/VAV OFFICE AREA	P	0.2
0.6	P	OFFICE 119E	15	39	40	15	JUNCTION BOX FOR BAS/VAV STUDENT SPACE	P	0.2
0.6	P	OFFICE 120	15	41	42	15	STAFF MEETING SCREEN	P	0.4
0.6	P	OFFICE 120	15	43	44	20	HOT WATER TANK UNDERCOUNTER LUNCHRM.	P	1.4
0.6	L	STAFF MEETING 102, KITCHENETTE 105A	15	45	46	15	106G, 106H	L	0.5
0.6	L	OFFICE 119D, E	15	47	48	15	106E, 106F	L	0.6
0.6	L	OFFICE 119A, B, C	15	49	50	15	MAIL DELIVERIES 104	L	0.5
0.6	L	INDIVIDUAL STUDY 120B, C, D	15	51	52	15	SPARE	-	-
-	-	SPARE	15	53	54	20	SPARE	-	-
0.5	L	106C, 106D	15	55	56	15	SPARE	-	-
0.5	L	106A, 106B	15	57	58	15	SPARE	-	-
0.6	L	OPEN WORK STATIONS 106	15	59	60	15	SPARE	-	-
	P	EXIST. CIRCUIT TRANSFERRED FROM PANEL 1D	15	61	62	15	SPARE	-	-
		SPARE	15	63	64	15	SPARE	-	-
		SPARE	15	65	66	15	SPARE	-	-
		SPARE	20	67	68	20	SPARE	-	-
		SPARE	20	69	70	20	SPARE	-	-
		SPARE	20	71	72	20	SPARE	-	-

TYPE: SQUARE 'D' NQOB SURFACE MOUNTED PANEL C/W DRIP HOOD | SHORT CIRCUIT RATING: 10KA

MAINS RATING: 100A | MAIN BREAKER C/W BARRIER: N/A

VOLTAGE RATING: 120/208-3Ø | FED FROM: PANEL 1D

LEGEND:

P-POWER, H-HEATING, L-LIGHTING, M-MOTOR, *-GFCI BKR

PANEL LP-1G — LOCATION: ELEC. RM. 175

KW	LEG	DESCRIPTION	BKR	CCT #	CCT #	BKR	DESCRIPTION	LEG	KW
0.5	P	HOUSEKEEPING	20	1	2	15	DOOR OPERATOR	P	0.4
0.3	P	HOUSEKEEPING	20	3	4	15	CLASSROOM TV/PROJECTOR	P	0.6
0.6	P	PRINTER OFFICE 113B	20	5	6	15	CLASSROOM 108 PODIUM	P	0.2
0.6	P	OFFICE 113B	15	7	8	15	CLASSROOM 108 RECEPTACLES	P	0.5
0.3	P	BOARDROOM 113C - TV	15	9	10	15	CLASSROOM 108 RECEPTACLES	P	0.5
0.4	P	BOARDROOM 113C TABLE	15	11	12	15	CLASSROOM 108 BEHIND PODIUM	P	0.4
0.2	P	BOARDROOM 113C	15	13	14	15	TABLES AT CLASSROOM ENTRANCE	P	0.6
0.3	P	WASHROOM 137, ROOM 136 AND HALLWAY	15	15	16	15	TABLE AT CLASSROOM ENTRANCE LV. RELAY	P	0.3
0.3	P	WASHROOM 138 AND HALLWAY	15	17	18	15	OPEN AREA 124	P	0.8
0.3	P	OFFICE 126A	15	19	20	15	OPEN AREA 124 ENTRANCE LV. RELAY	P	0.4
0.2	P	JUNCTION BOX FOR BAS/VAV CLASSRM. AREA	15	21	22	15	OPEN AREA 124	P	0.8
0.6	L	113A, 113B,113C	15	23	24	15	OPEN AREA 124 ENTRANCE LV. RELAY	P	0.4
0.8	L	CLASSROOM, SPEAKER CORNER 108	15	25	26	15	TRAP SEAL PRIMER	P	0.3
0.8	L	CLASSROOM, SPEAKER CORNER 108	15	27	28	15	OFFICE 139, 139A, 139B, 139C	L	0.6
0.8	L	150, 177A,B,C, 136, 137, 138, 149	15	29	30	15	OFFICE 139A	P	0.3
0.6	L	178A, B, C, 151, 126A	15	31	32	15	OFFICE 139B	P	0.3
-	-	SPARE	15	33	34	15	OFFICE 139C	P	0.3
-	-	SPARE	15	35	36	15	SPARE	-	-
-	-	SPARE	15	37	38	15	SPARE	-	-
-	-	SPARE	15	39	40	15	SPARE	-	-
-	-	SPARE	15	41	42	15	SPARE	-	-
-	-	SPARE	15	43	44	15	SPARE	-	-
-	-	SPARE	15	45	46	15	SPARE	-	-
-	-	SPARE	15	47	48	15	SPARE	-	-
-	-	SPARE	20	49	50	20	SPARE	-	-
-	-	SPARE	20	51	52	20	SPARE	-	-
-	-	SPARE	20	53	54	20	SPARE	-	-

TYPE: SQUARE 'D' NQOB SURFACE MOUNTED PANEL C/W DRIP HOOD | SHORT CIRCUIT RATING: 10KA

MAINS RATING: 100A | MAIN BREAKER C/W BARRIER: -

VOLTAGE RATING: 120/208V-3Ø | FED FROM: PANEL 1M

LEGEND:

P-POWER, H-HEATING, L-LIGHTING, M-MOTOR, *-GFCI BKR

PANEL LP-1P — LOCATION: ROOM 173

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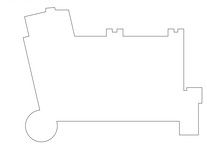

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