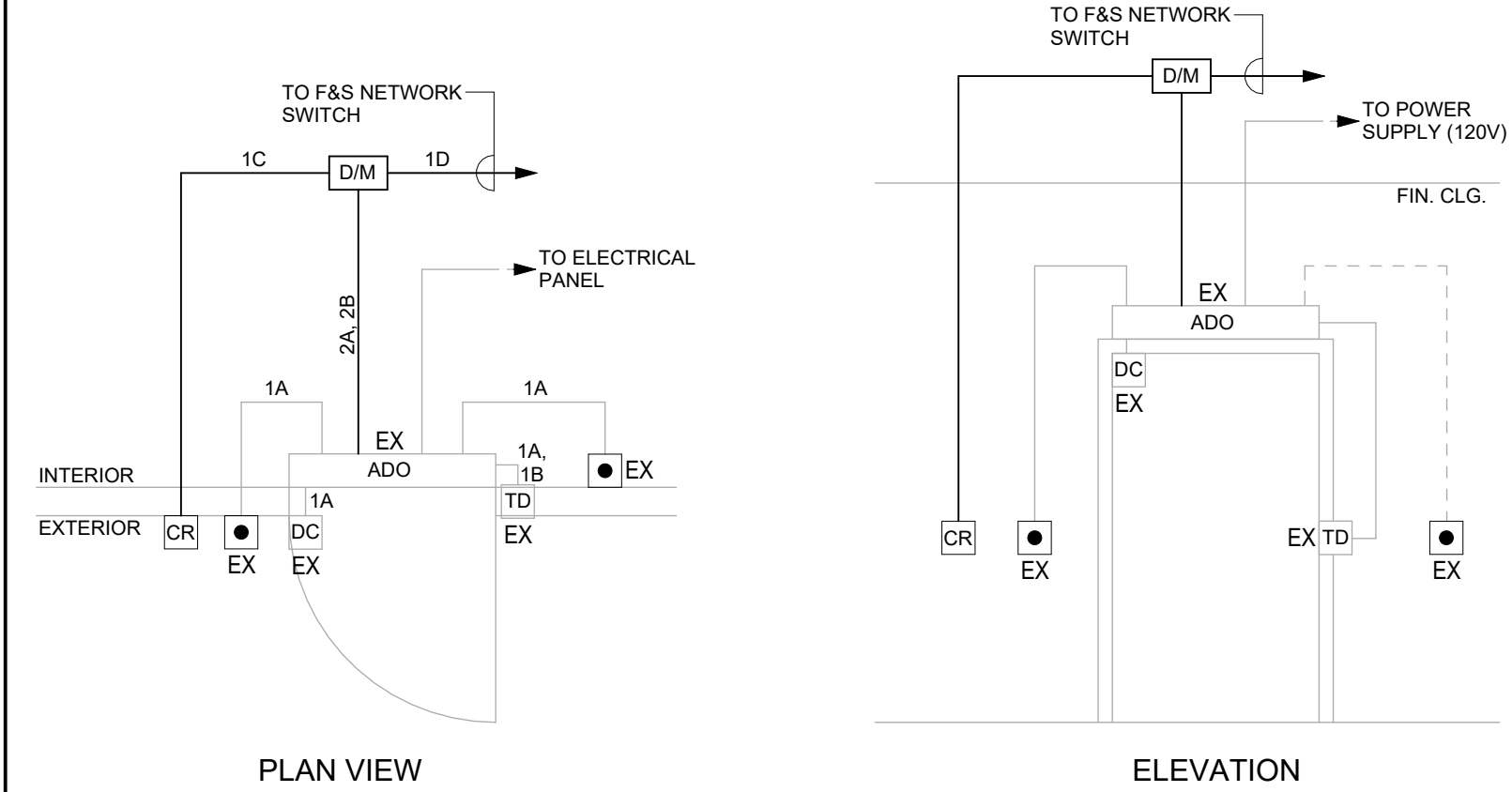


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ENTERPRISE BUILDINGS INTEGRATOR  
FAULT TOLERANT SERIES EXTERIOR DOOR WIRING SCHEMATIC FOR  
SINGLE DOOR WICARD READER & DOOR ACTIVATION DEVICE

WIRE & CABLE LEGEND			
CABLE	DESCRIPTION	BELDEN #	DESCRIPTION
A	2PR, 22AWG, STRANDED, SHIELDED, TWISTED PR.	8723	DOOR CONTACT / REX / LOCK STATUS
B	1 PR, 18AWG, STRANDED, TWISTED PR.	9740	ELECTRIC LOCK / AUDIBLE ALARM
C	3PR, 22AWG, STRANDED, SHIELDED, TWISTED PR.	8777	CARD READER
D	CAT. 6		

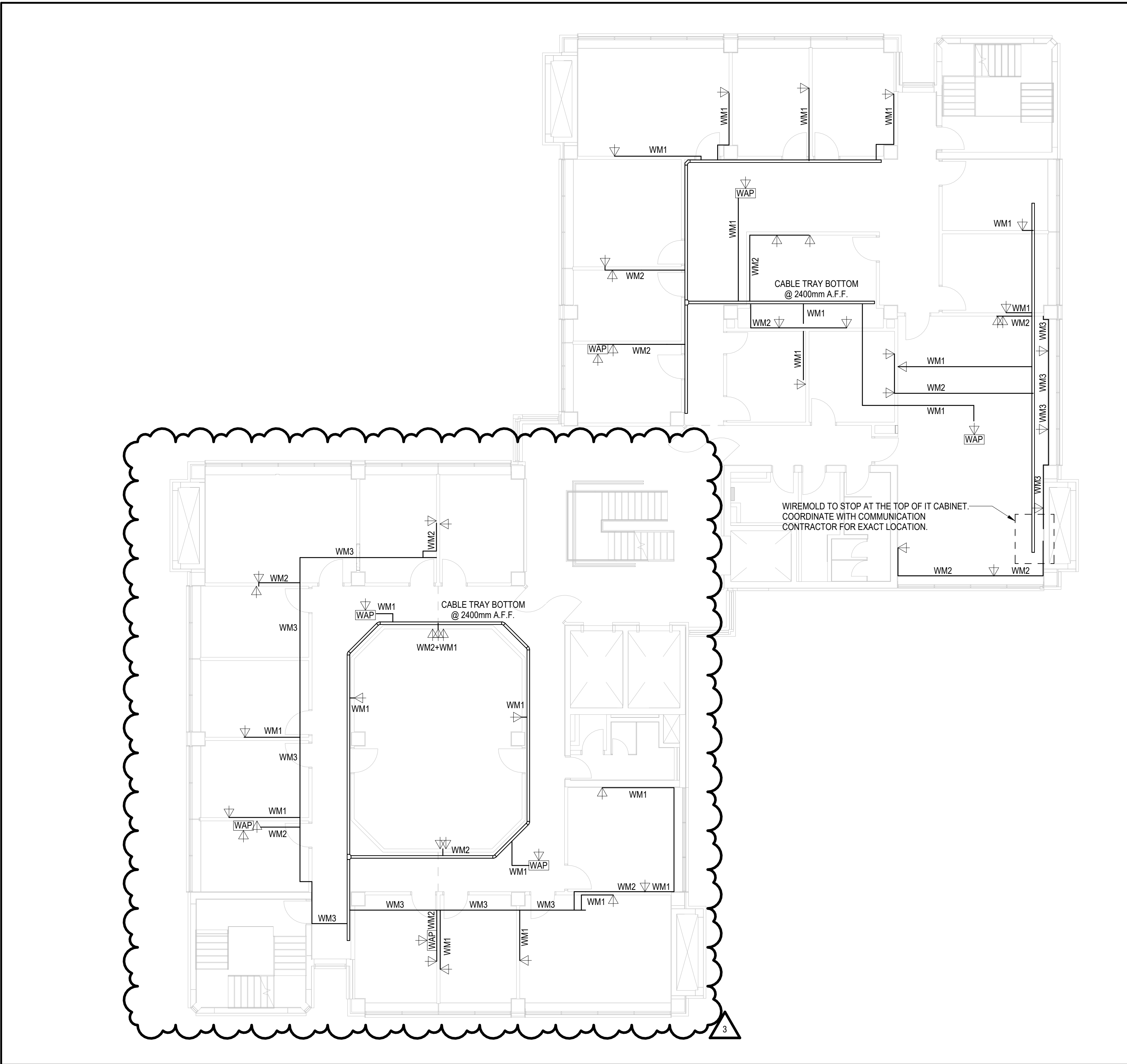
FIELD DEVICE LEGEND			
SYM.	DESCRIPTION	BELDEN #	DESCRIPTION
CR	CARD READER		DOOR ACTIVATION DEVICE
DC	DOOR CONTACT	DM	DOOR MODULE
TD	ELECTRIC TRANSFER DEVICE	EX	EXISTING TO REMAIN
ADO	DOOR OPERATOR		

- NOTES: (EXTERIOR DOOR)
- FOR EXACT HEIGHTS, REFER TO AODA SPECIFICATIONS.
  - LOW VOLTAGE WIRING SHALL BE COPPER CONDUCTORS.
  - RUN WIRES IN TO HEADER OF AUTOMATIC DOOR OPERATOR OPPOSITE HINGE SIDE ABOVE DOOR JAMB TO ALLOW FOR ORGANIZED LOW VOLTAGE WIRING DUE TO LOCATION OF RELAY.
  - COORDINATE EXACT WIRING REQUIREMENTS WITH DOOR OPERATOR MANUFACTURER.
  - MINIMUM CONDUIT SIZE TO BE 3/4".

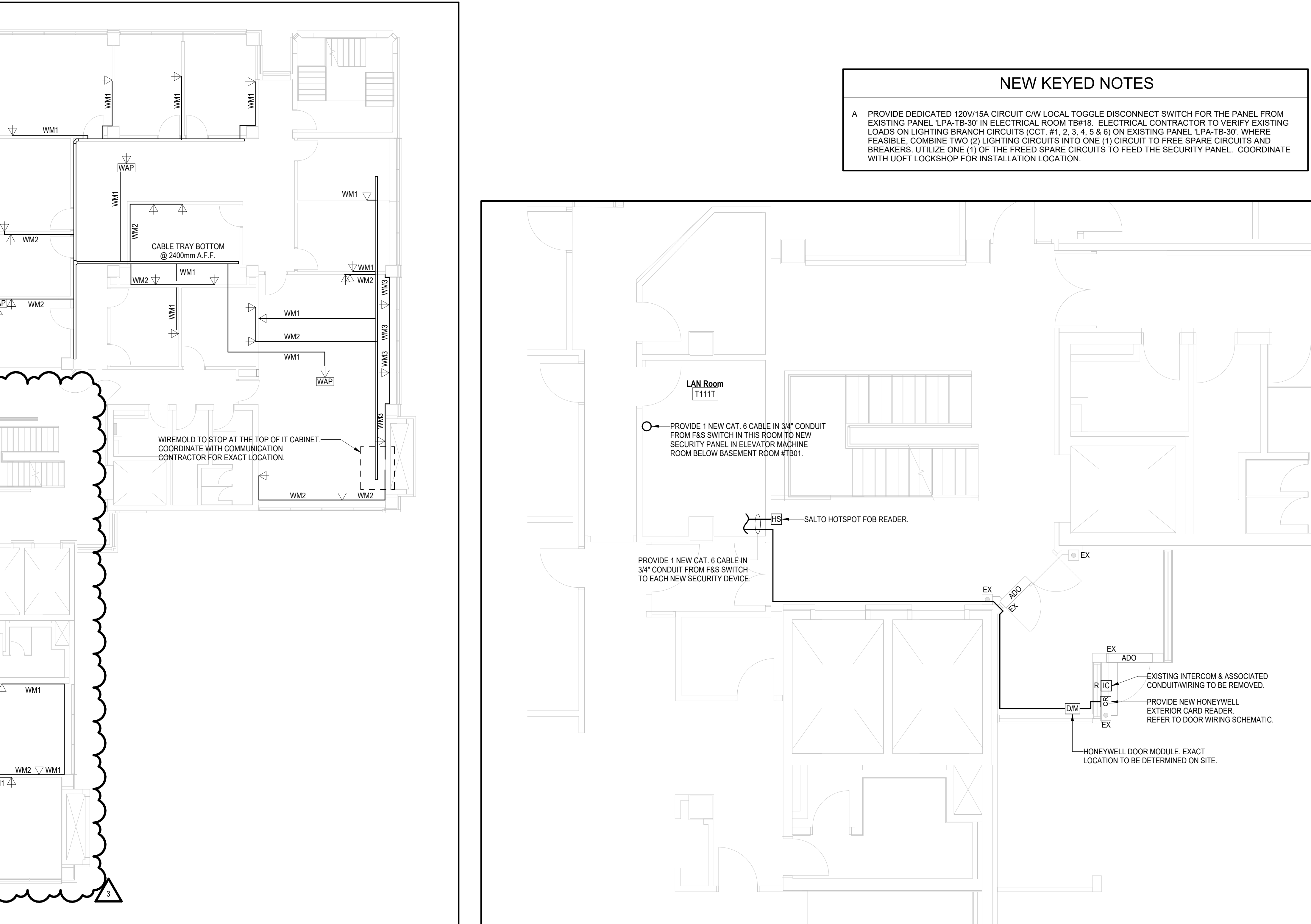
- SEQUENCE OF OPERATION (EXTERIOR DOOR W/ CARD READER):
- FOR LOCKED DOORS:
- EXTERIOR DOOR ACTIVATION DEVICE IS DISABLED. INTERIOR DOOR ACTIVATION DEVICE UNLOCKS & OPENS DOOR. CARD READER UNLOCKS DOOR & ENABLES DOOR OPERATOR.
  - WHEN DOOR IS UNLOCKED, ANY DOOR ACTIVATION DEVICE OPENS DOOR.
  - AFTER SET TIME, ELECTRIC LATCH RETRACTION CLOSSES THE DOOR. ONCE CLOSED, DOOR LOCKS.
- FOR UNLOCKED DOORS:
- ANY DOOR ACTIVATION DEVICE OPENS DOOR.
  - AFTER SET TIME, ELECTRIC LATCH RETRACTION CLOSSES THE DOOR.

6 HONEYWELL EXTERIOR DOOR SECURITY WIRING SCHEMATIC  
SCALE: NTS

5 6TH FLOOR - MAIN ELECTRICAL CONDUIT & WIREMOLD LAYOUT  
SCALE: 1 : 100

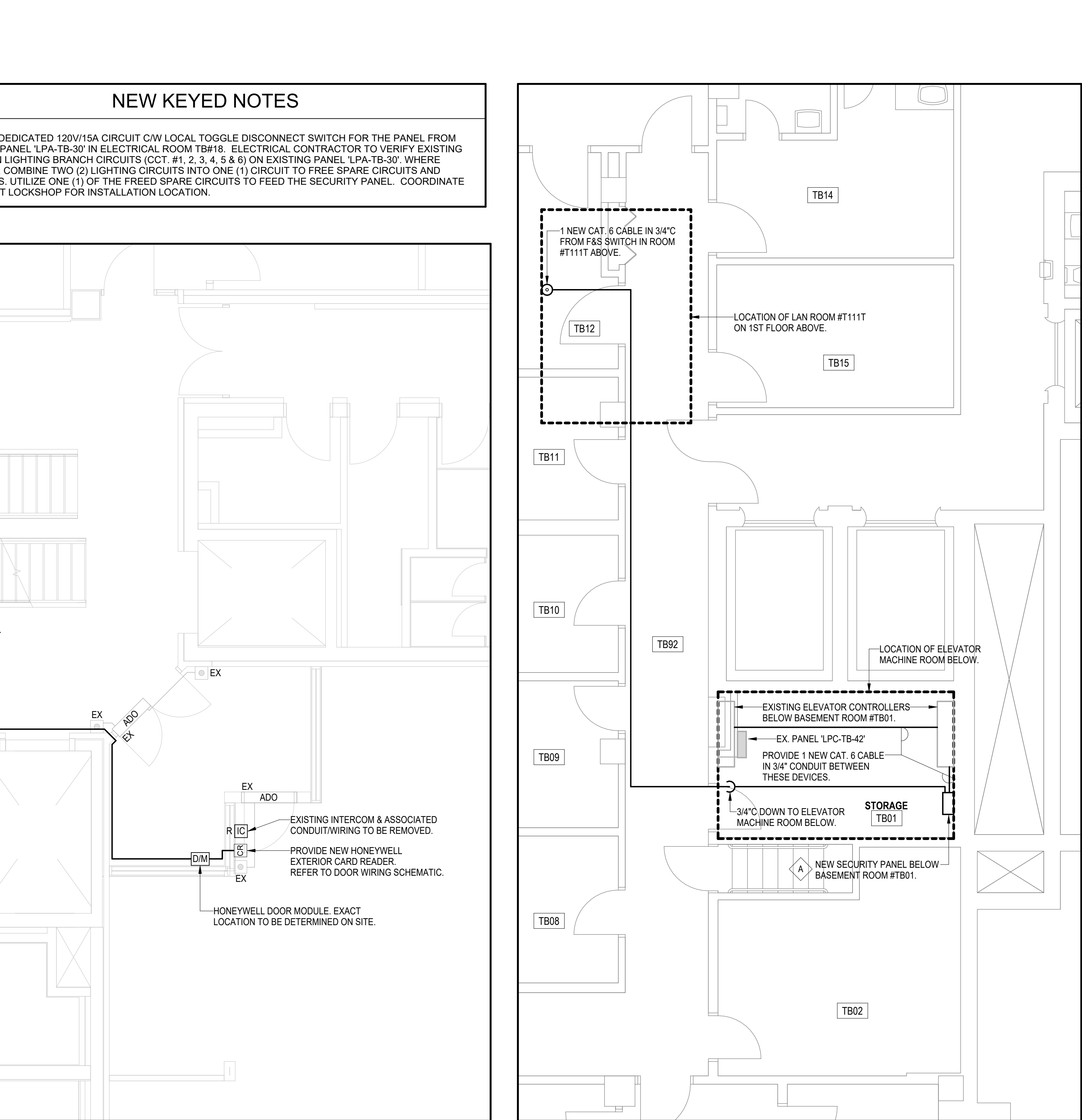


3 3RD FLOOR - MAIN ELECTRICAL CONDUIT & WIREMOLD LAYOUT  
SCALE: 1 : 100



2 1ST FLOOR PART PLAN - NEW DOOR SECURITY LAYOUT  
SCALE: 1 : 50

4 4TH FLOOR - MAIN ELECTRICAL CONDUIT & WIREMOLD LAYOUT  
SCALE: 1 : 100



1 BASEMENT PART PLAN - NEW ELEVATOR SECURITY LAYOUT  
SCALE: 1 : 50



University of Toronto  
UNIVERSITY PLANNING,  
DESIGN & CONSTRUCTION

Design & Engineering

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REV.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	2026-01-14
2	ISSUED FOR TENDER	2026-01-21
3	ISSUED FOR REVIEW	2026-01-16
4	ISSUED FOR REVIEW	2026-01-30
5	ADDITIONAL #2	2026-02-06
6	ADDITIONAL #3	2026-02-10

KEY PLAN (NTS)

SEAL

PROJECT TITLE  
UNIVERSITY OF TORONTO  
**Tower FOI Relocation**

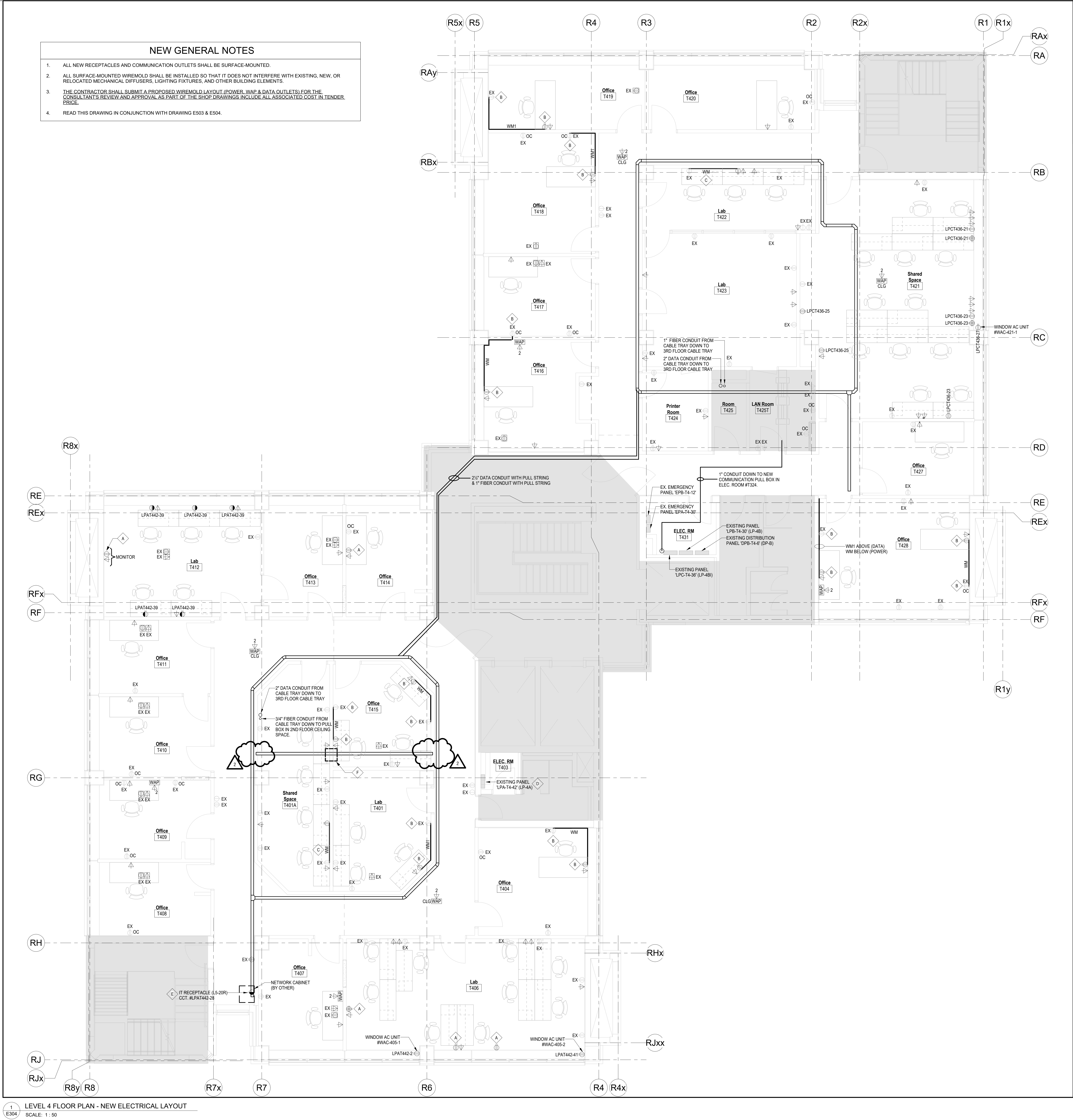
481 Spadina Ave  
DRAWING SHEET TITLE  
**ELECTRICAL RACEWAY  
ROUTING & SECURITY  
LAYOUT**

DRAWN BY: JW/GDP  
REVIEWED BY: SG  
UNIVERSITY PROJECT NUMBER: NORTH POINT

P164-25-078

DRAWING NUMBER  
**E504**  
REV. NUMBER  
**3**

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1 E304 LEVEL 4 FLOOR PLAN - NEW ELECTRICAL LAYOUT  
SCALE: 1:50

NEW KEYED NOTES

- A CONNECT INDICATED RECEPTACLE TO EXISTING BRANCH WIRING AS REQUIRED.
- B UTILIZE EXISTING RECEPTACLE TO FEED THE NEW SURFACE-MOUNTED RECEPTACLE. CONTRACTOR TO SAFELY DISCONNECT EXISTING RECEPTACLE DEVICE. PROVIDE NEW SURFACE-MOUNTED DEVICE BOX WITH BLANK COVER PLATE OVER THE EXISTING BACKBOX & EXTEND EXISTING WIRING TO THE NEW RECEPTACLE C/W NEW WIREMOLD & DEVICE BOXES. PROVIDE PROPER LABELING FOR NEW RECEPTACLE AS REQUIRED. REFER TO FLOOR PLAN.
- C UTILIZE EXISTING RECEPTACLE TO FEED THE NEW SURFACE-MOUNTED RECEPTACLE. CONTRACTOR TO EXTEND EXISTING WIRING TO THE NEW RECEPTACLE C/W NEW WIREMOLD & DEVICE BOXES. PROVIDE PROPER LABELING FOR NEW RECEPTACLE AS REQUIRED. EXISTING RECEPTACLE IS TO REMAIN. REFER TO FLOOR PLAN.
- D ELECTRICAL CONTRACTOR TO VERIFY EXISTING LOADS ON LIGHTING BRANCH CIRCUITS (CCT. #2, 4, 6, 8, 10, 12, 14, & 16). WHERE FEASIBLE, COMBINE TWO (2) LIGHTING CIRCUITS INTO ONE (1) CIRCUIT TO FREE SPARE CIRCUITS AND BREAKERS. UTILIZE ONE (1) OF THE FREED SPARE CIRCUITS TO FEED THE NEW WINDOW AC UNIT IN LAB #405.
- E IT RECEPTACLE TO BE INSTALLED INSIDE THE IT ENCLOSURE. COORDINATE WITH COMMUNICATION CONTRACTOR PRIOR TO ROUGHINS & INSTALLATION.
- F PROVIDE SMOKE & ACOUSTICAL PATHWAY (EZ PATH, CAT.#/NEZ33-W) FOR WALL PENETRATION.



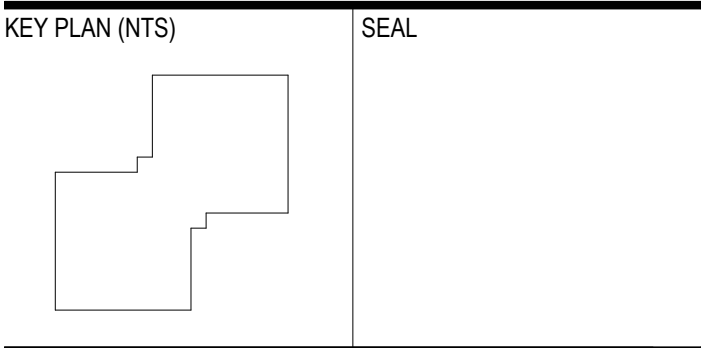
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2	ADDENDUM #3	2026-02-10
1	ADDENDUM #1	2026-01-30
	ISSUED FOR TENDER	2026-01-21
	ISSUED FOR FAS REVIEW	2026-01-16
	ISSUED FOR PERMIT	2026-01-14
	ISSUED FOR CD	2025-11-07
	ISSUED FOR 100% SCHEMATIC DESIGN	2025-09-25
REV.	DESCRIPTION	DATE



PROJECT TITLE  
UNIVERSITY OF TORONTO  
**Tower FOI Relocation**

481 Spadina Ave  
DRAWING SHEET TITLE  
**LEVEL 4 FLOOR PLAN -  
NEW ELECTRICAL  
LAYOUT**

DRAWN BY: JW/GDP  
REVIEWED BY: SG  
UNIVERSITY PROJECT NUMBER: NORTH POINT  
P164-25-078

DRAWING NUMBER  
**E304**  
REV. NUMBER  
**2**