



UNITED ENGINEERING INC
Mechanical and Electrical Consulting Engineers

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ADDENDUM

PROJECT: Forestside Estates
Attmar & Palleschi Drive
Brampton, Ontario

PROJECT NO.: 18-017

CONTRACT: Electrical

DATE: FEB 08, 2021

ADDENDUM NO. E-4

CONTRACTORS ARE TO REVIEW ALL CHANGES, DELETIONS AND ADDITIONS TO THE WORK LISTED IN THIS DOCUMENT AND THE REVISED DRAWINGS AND INCORPORATE THESE ITEMS IN THE TENDER PRICE.

PURPOSE: To suit Arch Addendum #8 and clarification.

1.0 Reference Drawings E-1 (Site Plan - Electrical) Issued

1.1 Revise: Site Plan background suit latest arch drawings as shown.

**2.0 Reference Drawings E-2A (Parking Level Part A - Electrical) Issued
E-2B (Parking Level Part B - Electrical)
E-2C (Parking Level - Electrical Room)**

2.1 Revise: Parking level background to suit latest arch drawings as shown.

**3.0 Reference Drawings E-3 (Ground Floor - Electrical) Issued
E-4 (2nd Floor- Electrical)
E-5 (3rd Floor- Electrical)
E-6 (4th Floor- Electrical)**

3.1 Revise: Floor plan background suit latest arch drawings as shown.

3.2 Delete: Split system blower & coil 'E-5' & condenser units 'E-6' for lobby area.

4.0 Reference Drawings E-10 (Risers - Electrical) Issued

4.1 Revise: Riser diagram as shown.

Project #17-009
91 Broadway Avenue

5.0 Reference Drawings E-11 (Fire Alarm System - Electrical) Issued

5.1 Revise: Fire alarm schedule as shown.

Note: Drawings for background change no bubble edition.

PREPARED BY:

Susan Pan

Susan Pan
Electrical Department

ISSUED TO ROYAL PINE HOMES,
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FOR DISTRIBUTION TO ALL AFFECTED PARTIES.

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FOR CONTINUATION —> FOR REF
REFER TO DWG. E-2B

- KEY NOTES:**
- ◇ WHEN CONNECTING GARAGE LIGHTS TO "OSS", EACH SENSOR TO BE AS A LIGHT BAY.
 - ◇ CO AUDIO/VISUAL REMOTE INDICATOR LIGHT.
 - ◇ GENERATOR BLOCK HEATER (CONFIRM LOCATION ON SITE) EBI-19/21
 - ◇ GENERATOR BATTERY CHARGER EBI-17
 - ◇ INSULATE AND ELECTRICALLY TRACE ALL SPRINKLER PIPES AND HEADS IN GENERATOR ROOM FED FROM PANEL EF
 - ◇ TOP OF LOWER STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
 - ◇ GARBAGE COMPACTOR TRISORT, EXACT LOCATION TBC FED FROM DP26
 - ◇ 20A TRISORTER CONTROL PANEL
 - ◇ ALL ELECTRICAL DEVICES LOCATED IN GARBAGE ROOM SHOULD BE WEATHER PROOF (TYPICAL)
 - ◇ 1/2" CONDUIT OUTLETS FOR:
 - TELEPHONE
 - ELEVATOR RECALL
 - SECURITY/INTERCOM
 - GEN. HOMING SIGNALCONFIRM EXACT QUANTITY AND TERMINATE ON SITE, AS PER THE LOCATION OF CONTROLLER SHOWN IN ELEVATOR SHOP DRAWINGS. COORDINATE WITH ELEVATOR INSTALLER PRIOR TO ROUGH IN.
 - ◇ DISCONNECTS FOR ELEVATOR POWER SUPPLY FED FROM ELEVATOR SPITER SP81
 - ◇ DISCONNECTS FOR GAS LIGHTS ETC. REFER TO SINGLE LINE DIAGRAM FOR DETAILS. EXACT LOCATION PER ELEVATOR SHOP DRAWINGS.
 - ◇ VANDAL PROOF ELEVATOR SUMP PIT "P-4" (DUPLEX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL. EXACT CIRCUITS AS SHOWN
 - ◇ GARAGE EXHAUST FAN, FED FROM M0P1
 - ◇ PROVIDE VANDAL PROOF CONTROL EQUIPMENT, TO BE INTERLOCKED WITH CO SYSTEM (ONE UNIT IN TOP OF THE OTHER)
 - ◇ VANDAL PROOF SANITARY SUMP PIT C/W PUMP "P-2" (DUPLEX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL
 - ◇ NOT USED
 - ◇ PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL DOMESTIC COLD WATER PIPING OUTSIDE HEATED PLENUM (TYPICAL) FED FROM PANEL EF
 - ◇ PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL NON FREEZE HOSE BIB PIPING OUTSIDE HEATED PLENUM (TYPICAL FOR 12) FED FROM PANEL EF
 - ◇ INSULATED AND ELECTRICALLY TRACE EXPOSED PIPING FED FROM PANEL EF
 - ◇ NOT USED
 - ◇ VANDAL PROOF STORM SUMP PIT C/W PUMP "P-3" (DUPLEX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL
 - ◇ NOT USED
 - ◇ 1KW HEATER C/W BUILT IN THERMOSTAT IN HEATED PIPE SPACE. BUILDING A AND BUILDING D FED FROM PANEL H1. BUILDING B AND BUILDING C FED FROM PANEL H2. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION, QUANTITY AND DETAILS.
 - ◇ NOT USED
 - ◇ WIRELESS SIGNAL RECEIVER TO ACTIVATE Q/H DOOR AND OR CATAWING WEATHERPROOF
 - ◇ Q/H DOOR CONTROL PANEL TO BE INTERCONNECTED TO FIRE ALARM SYSTEM TO OPEN UPON ACTIVATE OF FIRE ALARM
 - ◇ 20# NON FREEZE HOSE BIB PIPE TO ABOVE PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL NON FREEZE HOSE BIB PIPE TO ABOVE UP TO NFHB (TYPICAL OF 16) FED FROM PANEL EF
 - ◇ SMOKE DETECTOR C/W RELAY FOR ELEVATOR RECALL
 - ◇ NET SPRINKLERED PIPING TO BE ELECTRICALLY TRACED AND INSULATED, FED FROM PANEL EF
 - ◇ AIR COMPRESSOR FED FROM PANEL DP61
 - ◇ CONFIRM EXACT LOCATION ON SITE
 - ◇ DISCONNECT SWITCH AND 4"x4" JUNCTION BOX
 - ◇ 1-1/4" CONDUIT FOR POWER TO MAIN ELECTRICAL ROOM
 - ◇ 3/4" CONDUIT FOR COMMUNICATION TO COMMUNICATION ROOM
 - ◇ ROUGH-IN FOR PROVISION FOR FUTURE GAS CHARGING SYSTEM PLUG CONFIGURATION TO SUIT SUPPLIER TYPE. PROVIDE SEPARATE CHECK METER. REFER TO KSI CHARGING SYSTEMS. FED FROM DP-25.

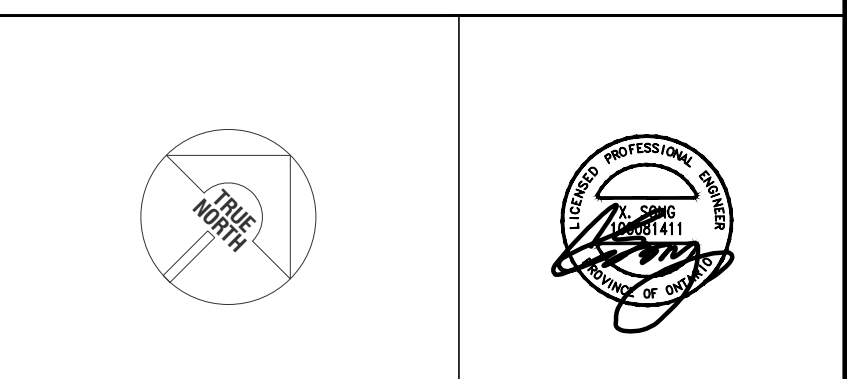
- NOTES:**
1. ALL INSULATE AND ELECTRICALLY HEAT TRACING TO BE READ IN CONJUNCTION WITH MECHANICAL AND SPRINKLER DRAWINGS.
 2. PROVIDE 120V POWER SUPPLIER FOR IRRIGATION CONTROLLER FED FROM M1-36
 - EXACT IRRIGATION CONTROLLER LOCATION AND POWER REQUIREMENT FOR IRRIGATION PUMP "P-4" TBC BY LANDSCAPE DESIGNER.

- GENERAL NOTES:**
1. A COMPLETE NETWORKED GAS DETECTION AND CONTROL SYSTEM TO BE PROVIDED AND INSTALLED WHERE THE VENTILATION SYSTEM MAY BE HOOD UP DIRECTLY TO THE GAS DETECTION SYSTEM. (REFER TO GAS MONITOR SYSTEM TYPICAL INSTALLATION DETAIL FOR MORE INFORMATION).
 2. FINAL DRIFT DWP AND TEST POINTS LOCATIONS MUST BE CO-ORDINATED WITH THE FIRE PROTECTION CONTRACTOR ON SITE. ALL DRIFT DWP AND TEST POINTS TO BE ELECTRICALLY TRACED AND INSULATED. FED FROM PANEL EF (TYPICAL)
 3. FINAL EXPOSED F-TRAPS MUST BE CO-ORDINATED WITH MECHANICAL CONTRACTOR ON SITE. ALL EXPOSED F-TRAPS TO BE ELECTRICALLY TRACED AND INSULATED. FED FROM PANEL EF (TYPICAL)
 4. PROVIDE LIGHT SENSORS/OCCUPANCY SENSORS WHICH IS (ARE) INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN SERVING THE ROOM FOR MECHANICAL ROOMS AND STORAGE ROOMS. ELSE PROVIDE SENSORS OPERATION FOR THOSE FANS (TYPICAL)
 5. ALL OCCUPANCY SENSOR INSTALLATION TO BE AS PER MANUFACTURER RECOMMENDATION.
 6. EXIT SIGNS TO BE 5W OR LESS PER FACE.

NO.	BY	DESCRIPTION	DATE
06	SP	ISSUED FOR ADD E-4	FEB. 08, 2021
05	SP	ISSUED FOR ADD E-3	JAN. 18, 2021
04	SP	ISSUED FOR PERMIT	SEP. 28, 2020
03	SP	ISSUED FOR ADD E-2	JUN. 15, 2020
02	SP	ISSUED FOR ADD E-1	SEP. 16, 2019
01	SP	ISSUED FOR TENDER	AUG. 02, 2019

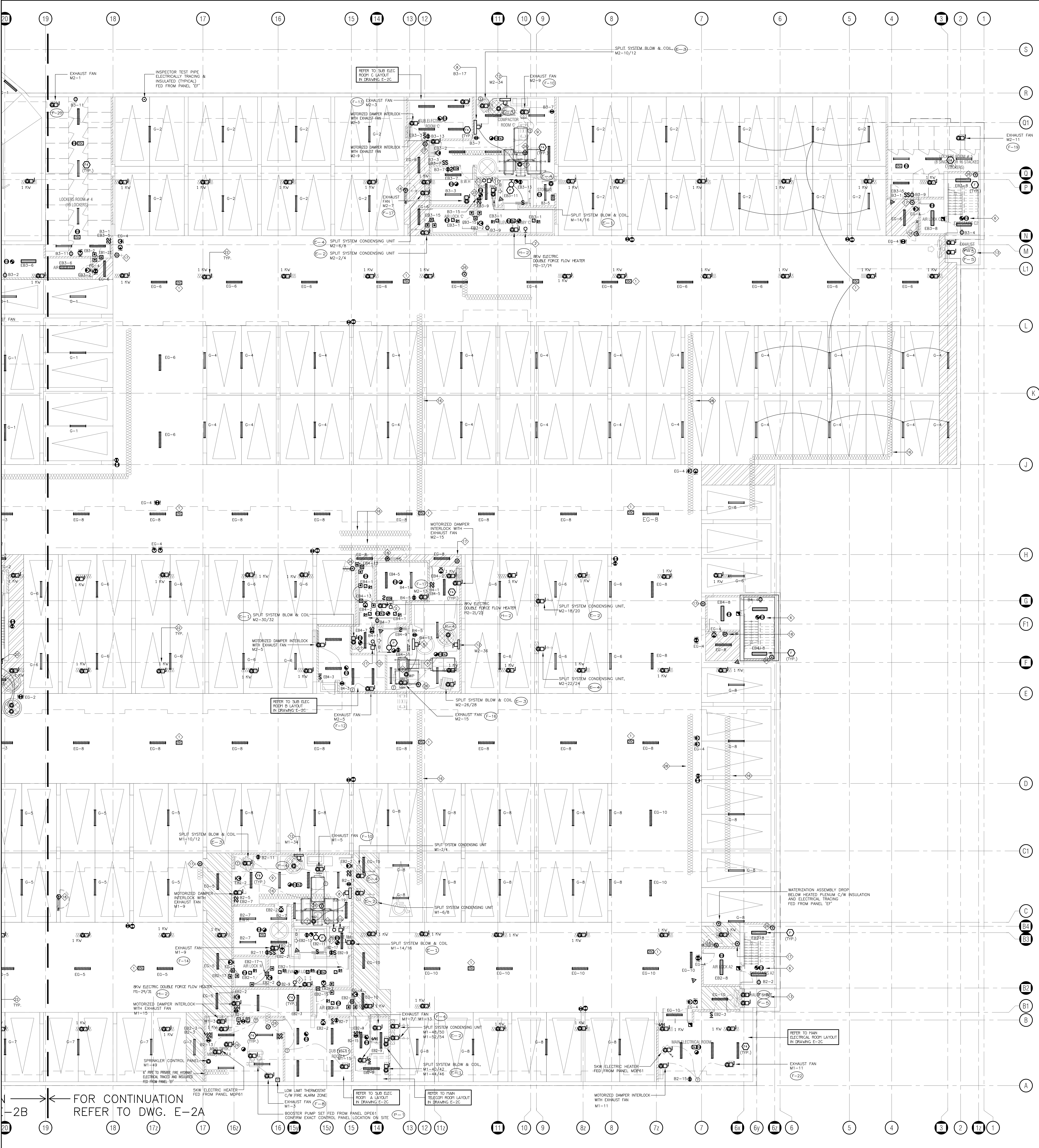
REVISIONS

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TITLE PARKING LEVEL PART A ELECTRICAL			
PROJECT BRAMPTON STACKED FORESTSIDE ESTATES			
ATTMAY + PALLESCHI DRIVE BRAMPTON, ONTARIO			
DRAWN SP	CHECKED MG	SCALE 1:100	DRAWING E-2A OF 16
DATE MAY, 2019	PROJECT 18-017		



- KEY NOTES:**
- ◇ WHEN CONNECTING GARAGE LIGHTS TO "OSC", EACH SENSOR TO BE AS A LIGHT BAY.
 - ◇ CO AUDIO/VISUAL REMOTE INDICATOR LIGHT.
 - ◇ NOT USED
 - ◇ NOT USED
 - ◇ NOT USED
 - ◇ TOP OF LOWER STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE.
 - ◇ GARAGE COMPACTOR TRISORT. EXACT LOCATION TBC FED FROM DP24.
 - ◇ 20A TRISORTER CONTROL PANEL.
 - ◇ ALL ELECTRICAL DEVICES LOCATED IN GARAGE ROOM SHOULD BE WEATHER PROOF (TYPICAL).
 - ◇ 1/2" CONDUIT OUTLETS FOR:
 - TELEPHONE
 - ELEVATOR RECALL
 - SECURITY/INTERCOM
 - GEN. HOMING SIGNAL
 - ◇ CONFIRM EXACT QUANTITY AND TERMINATE ON SITE, AS PER THE LOCATION OF CONTROLLER SHOWN IN ELEVATOR SHOP DRAWINGS. COORDINATE WITH ELEVATOR INSTALLER PRIOR TO ROUGH IN.
 - ◇ DISCONNECTS FOR ELEVATOR POWER SUPPLY FED FROM ELEVATOR SPLITTER SP1. DISCONNECTS FOR CAB LIGHTS ETC. REFER TO SINGLE LINE DIAGRAM FOR DETAILS. EXACT LOCATION FOR ELEVATOR SHOP DRAWINGS.
 - ◇ VANDAL PROOF ELEVATOR SUMP PIT "P-4" (SIMPLE) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM DP22.
 - ◇ GARAGE EXHAUST FAN FED FROM MDPE1. PROVIDE VANDAL PROOF CONTROL EQUIPMENT, TO BE INTERLOCKED WITH CO SYSTEM (ONE UNIT IN TOP OF THE OTHER).
 - ◇ VANDAL PROOF SANITARY SUMP PIT C/W PUMP "P-2" (DUPLX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM DP21.
 - ◇ NOT USED
 - ◇ PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL DOMESTIC COLD WATER PIPING OUTSIDE HEATED PLENUM (TYPICAL) FED FROM PANEL "EF".
 - ◇ PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL NON FREEZE HOSE BIB PIPING OUTSIDE HEATED PLENUM (TYPICAL FOR 12") FED FROM PANEL "EF".
 - ◇ INSULATED AND ELECTRICALLY TRACE EXPOSED PIPING FED FROM PANEL "EF".
 - ◇ NOT USED
 - ◇ VANDAL PROOF STORM SUMP PIT C/W PUMP "P-3" (DUPLX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM DP23.
 - ◇ NOT USED
 - ◇ 1KW HEATER C/W BUILT IN THERMOSTAT IN HEATED PIPE SPACE. BUILDING A AND BUILDING D FED FROM PANEL M1. BUILDING B AND BUILDING C FED FROM PANEL M2. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION, QUANTITY AND DETAILS.
 - ◇ NOT USED
 - ◇ NOT USED
 - ◇ NOT USED
 - ◇ 20K NON FREEZE HOSE BIB PIPE TO ABOVE PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL NON FREEZE HOSE BIB PIPE TO ABOVE UP TO NFHB (TYPICAL OF 16) FED FROM PANEL "EF".
 - ◇ SMOKE DETECTOR C/W RELAY FOR ELEVATOR RECALL.
 - ◇ WET SPRINKLERED PIPING TO BE ELECTRICALLY TRACED AND INSULATED, FED FROM PANEL "EF".
 - ◇ AIR COMPRESSOR FED FROM PANEL DP61. CONFIRM EXACT LOCATION ON SITE.

- NOTES:**
- ALL INSULATE AND ELECTRICALLY HEAT TRACING TO BE READ IN CONJUNCTION WITH MECHANICAL AND SPRINKLER DRAWINGS.
 - PROVIDE 120V POWER SUPPLIER FOR IRRIGATION CONTROLLER FED FROM M1-38. EXACT IRRIGATION CONTROLLER LOCATION AND POWER REQUIREMENT FOR IRRIGATION PUMP "P-X" TBC BY LANDSCAPE DESIGNER.

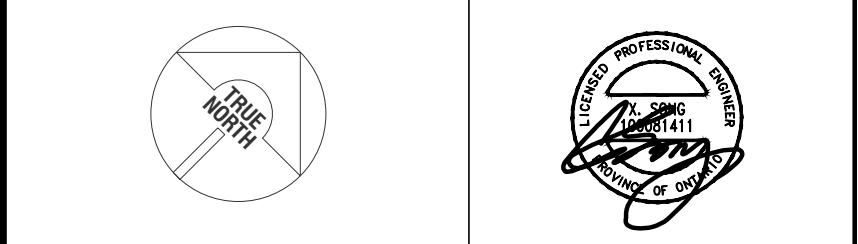
GENERAL NOTES:

- A COMPLETE NETWORKED GAS DETECTION AND CONTROL SYSTEM TO BE PROVIDED AND INSTALLED WHERE THE VENTILATION SYSTEM WILL BE HOOKED UP DIRECTLY TO THE GAS DETECTION SYSTEM. (REFER TO CO PONTOR SYSTEM TYPICAL INSTALLATION DETAIL FOR MORE INFORMATION).
- FINAL DRIFT DPT AND TEST POINTS LOCATIONS MUST BE CO-ORDINATED WITH THE FIRE PROTECTION CONTRACTOR ON SITE. ALL DRIFT DPTs AND TEST POINTS TO BE ELECTRICALLY TRACED AND INSULATED. (REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATION FOR DRIFT DPTs, TEST CONNECTIONS, TBC AND OTHER PIPE TRACING REQUIREMENT IN THE PROTECTION SYSTEM, AS NOT AVAILABLE AT THE TIME OF TENDER).
- FINAL DRIFT DPT AND TEST POINTS LOCATIONS MUST BE CO-ORDINATED WITH MECHANICAL CONTRACTOR ON SITE. ALL EXPOSED P-TRAPS TO BE ELECTRICALLY TRACED AND INSULATED. (REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATION FOR DRIFT DPTs, TEST CONNECTIONS, TBC AND OTHER PIPE TRACING REQUIREMENT IN THE PROTECTION SYSTEM, AS NOT AVAILABLE AT THE TIME OF TENDER).
- PROVIDE LIGHT SENSORS/OCCUPANCY SENSORS WHICH IS (ARE) INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN. SENSING THE ROOMS FOR MECHANICAL ROOMS AND STORAGE ROOMS. ELSE PROVIDE SENSORS OPERATION FOR THESE FANS. (TYPICAL).
- ALL OCCUPANCY SENSOR INSTALLATION TO BE AS PER MANUFACTURER RECOMMENDATION.
- EXIT SIGNS TO BE ON OR LESS PER FACE.

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05	SP	ISSUED FOR ADD E-3	JAN. 18, 2021
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01	SP	ISSUED FOR TENDER	AUG. 02, 2019

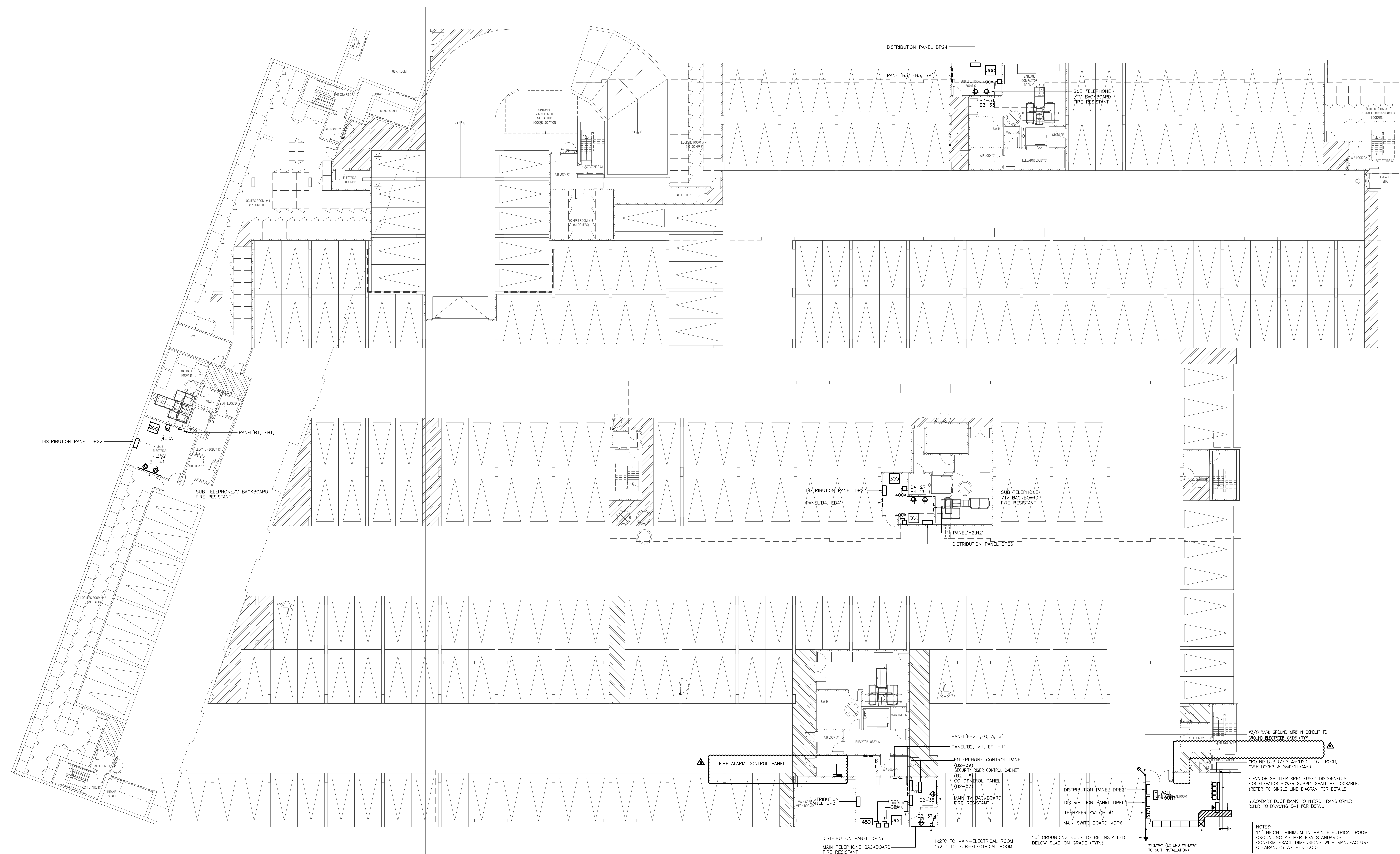
REVISIONS

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TITLE		PROJECT	
PARKING LEVEL PART B ELECTRICAL		BRAMPTON STACKED FORESTSIDE ESTATES	
DRAWN		CHECKED	
SP	MG	SCALE	
DATE		PROJECT	
MAY, 2019		18-017	
		DRAWING	
		E-2B	
		OF	
		16	



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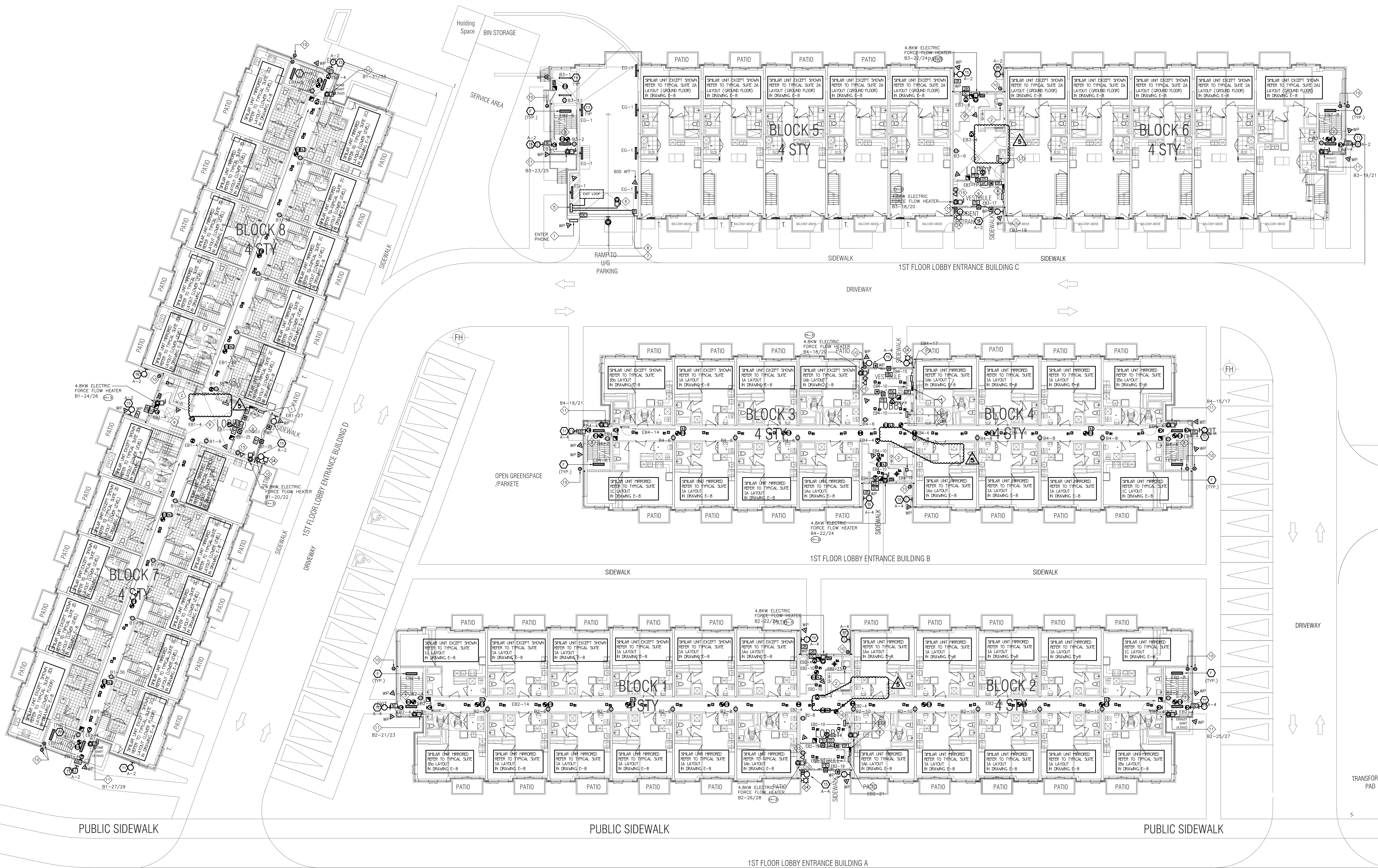


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**BRAMPTON STACKED
FORESTSIDE ESTATES**
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

KEY NOTES

- INTERPHONE PANEL C/W TIE INTO BUILDING CCTV SYSTEM, CARD READER, AND SYSTEM DIALLER. CONFIRM EXACT LOCATION ON SITE. WEATHER PROOF
- JUNCTION BOX FOR TR-SORT GARBAGE SYSTEM
- TOP OF STAIR
- SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- FIRE ALARM ANNUNCIATOR (ALL FIRE ALARM ANNUNCIATOR TO BE STAINLESS STEEL - TYPICAL)
- Q/H DOOR CONTROL PANEL TO BE INTERCONNECTED TO FIRE ALARM SYSTEM TO OPEN UPON ACTIVATION OF FIRE ALARM
- Q/H DOOR OPERATOR FED FROM DPE21
- 'DO NOT ENTER' SIGNAGE INTERCONNECTED TO FIRE ALARM FED FROM B3-10
- WIRELESS SIGNAL RECEIVER TO ACTIVATE Q/H DOOR AND/OR GATEARMS, WEATHERPROOF
- FOR CEILING LAYOUT LIGHT/FIRE ALARM REFER TO 2ND FLOOR
- 20W NON FREEZE HOSE DR PIPING FROM BELOW COMPLETE WITH ELECTRICAL TRACING AND INSULATION
- 120V ELECTRIC 'H-T' HEATER
- NOT USED
- SMILING STATUS ANNUNCIATOR
- FIRE DEPT APPROVED FIRE STROBE LIGHTS TO BE INTERCONNECTED TO FIRE ALARM SYSTEM TO IDENTIFY ACTIVATED BUILDING
- SMART BOXES FOR SPECIAL DELIVERIES, CIRCULATS B1-34/ B2-34/ B3-33/ B4-30
- SMOKE DETECTOR C/W RELAY FOR ELEVATOR RECALL



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01	SP	ISSUED FOR TENDER	AUG. 02, 2019

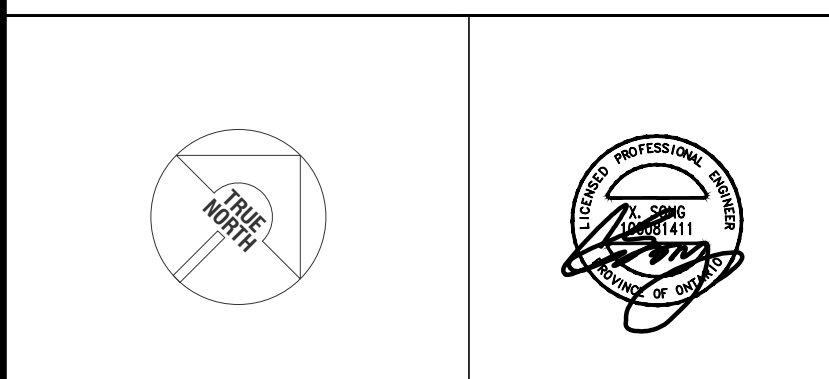
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TITLE
**GROUND FLOOR PLAN
ELECTRICAL**

PROJECT

**BRAMPTON STACKED
FORETSIDE ESTATES**

**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

DRAWN SP	CHECKED MG	SCALE 1:150
DATE MAY, 2019	PROJECT 18-017	DRAWING E-3
		OF 16

KEY NOTES

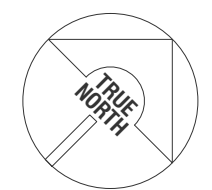
- ◇ SMOKE DETECTOR C/W RELAY FOR ELEVATOR RECALL
◇ JUNCTION BOX FOR THH-SORT GARBAGE SYSTEM



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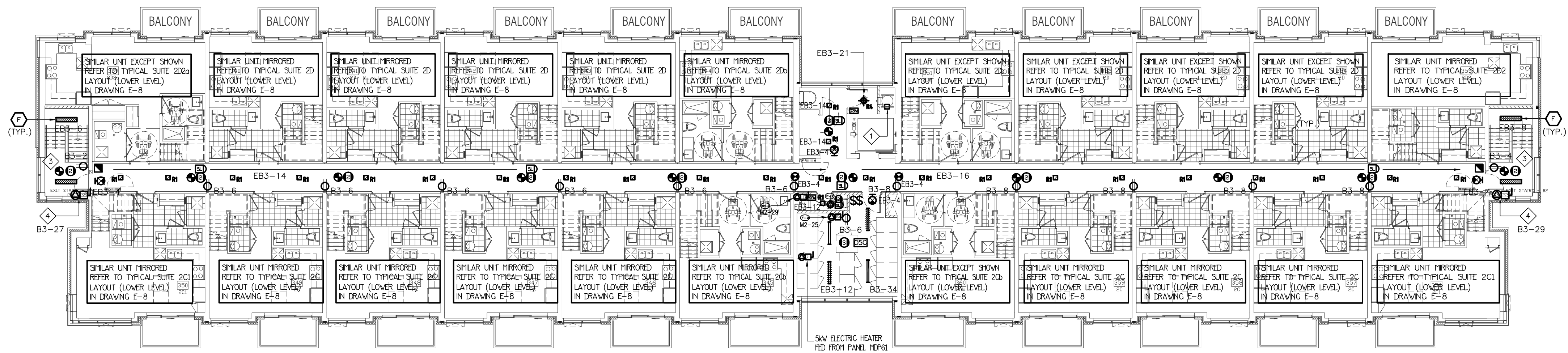
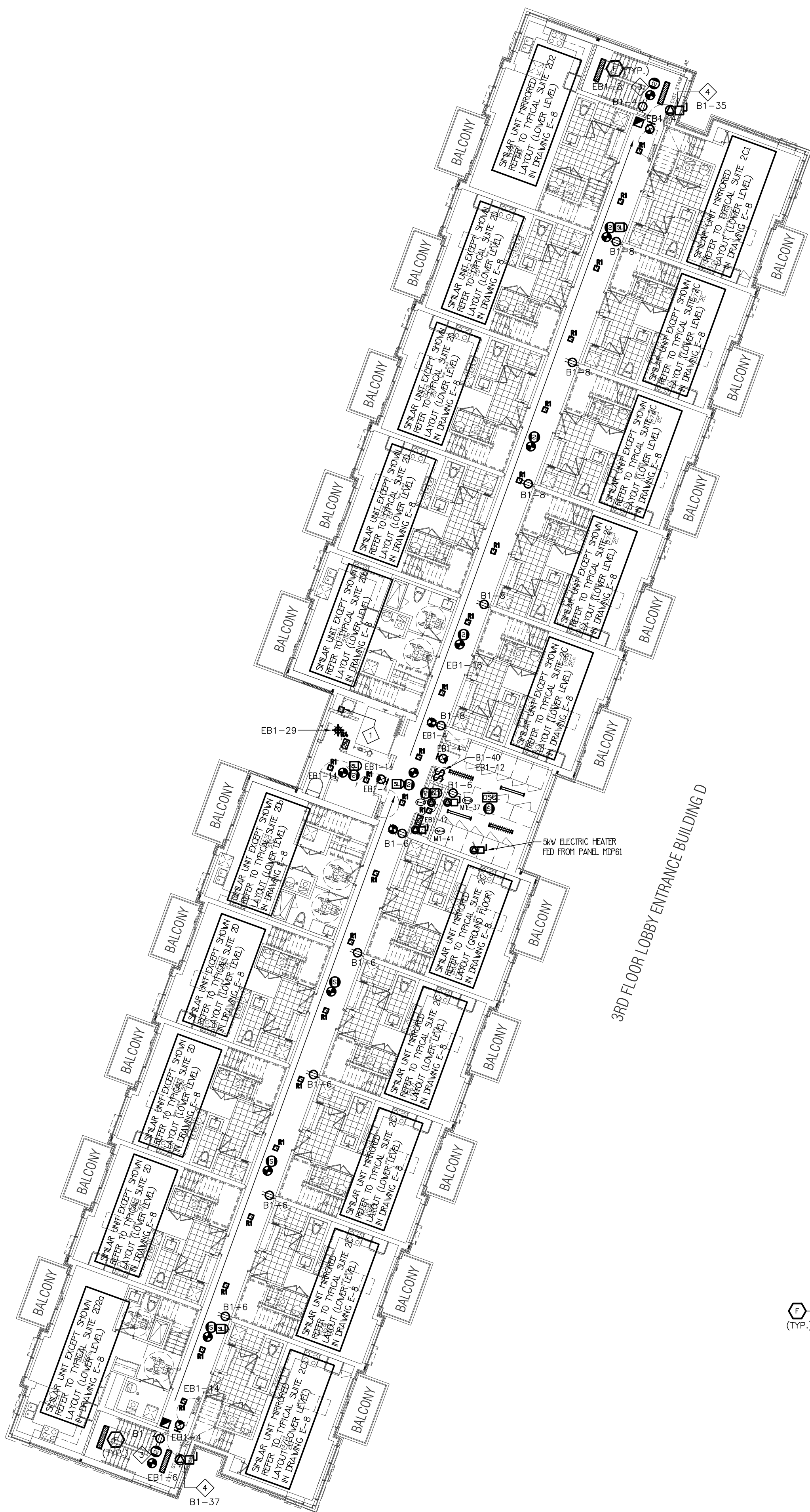
TITLE
**2ND FLOOR PLAN
ELECTRICAL**

PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**
**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

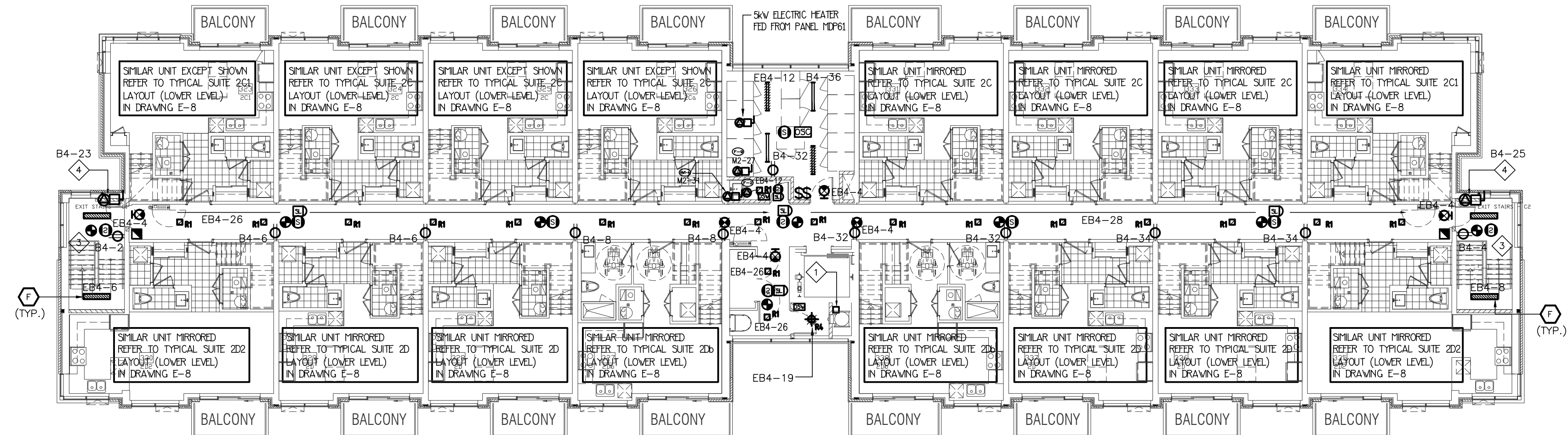
DRAWN	CHECKED	SCALE
SP	MG	1:150
DATE	PROJECT	DRAWING
MAY, 2019	18-017	E-4
		OF 16

KEY NOTES

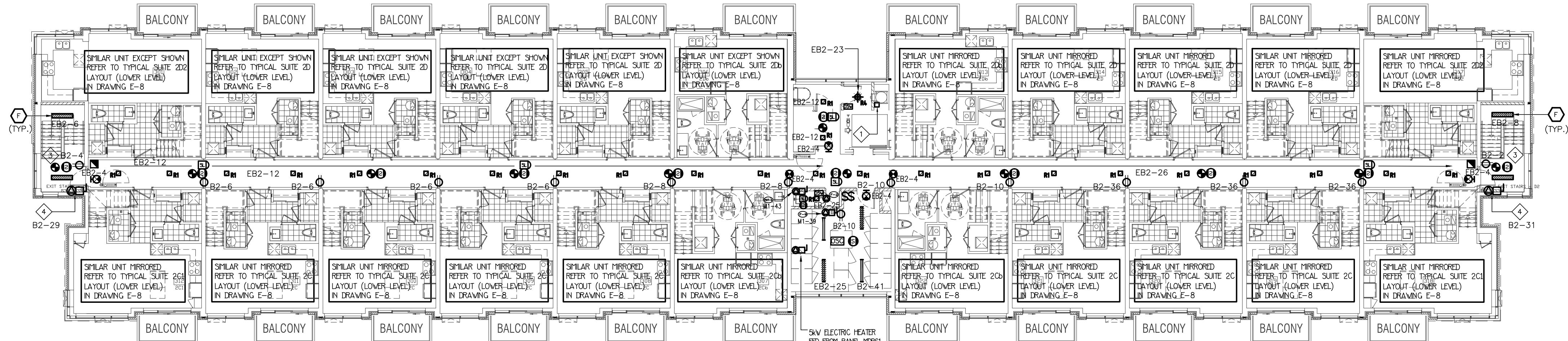
- JUNCTION BOX FOR TR-SORT GARBAGE SYSTEM
- NOT USED
- TOP OF STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- 1.0KW ELECTRIC BASEBOARD HEATER



3RD FLOOR LOBBY ENTRANCE BUILDING C



3RD FLOOR LOBBY ENTRANCE BUILDING B



3RD FLOOR LOBBY ENTRANCE BUILDING A

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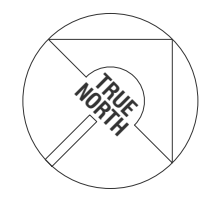
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TITLE
**3RD FLOOR PLAN
ELECTRICAL**

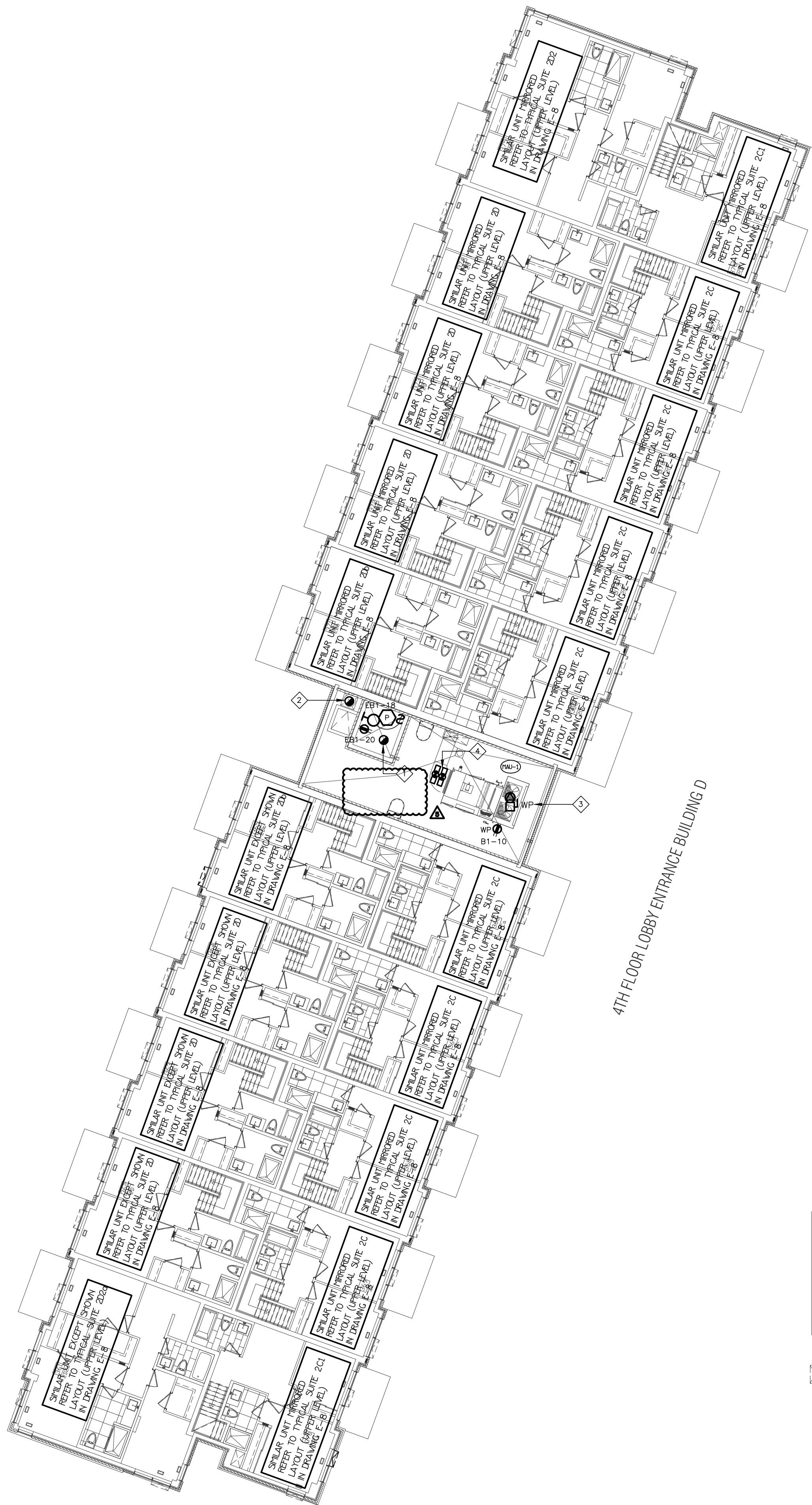
PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

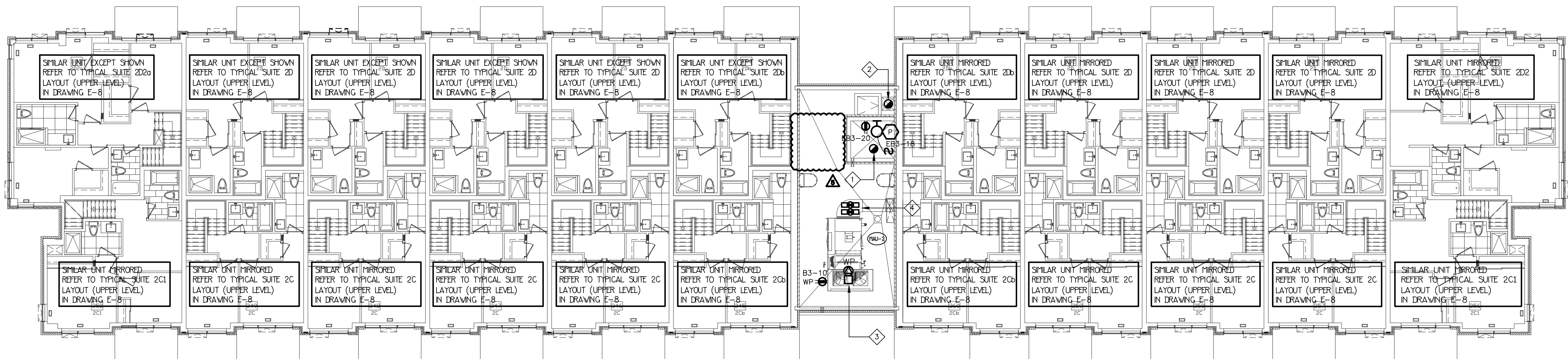
DRAWN	CHECKED	SCALE
SP	MG	1:150
DATE	PROJECT	DRAWING
MAY, 2019	18-017	E-5
		OF 16

KEY NOTES

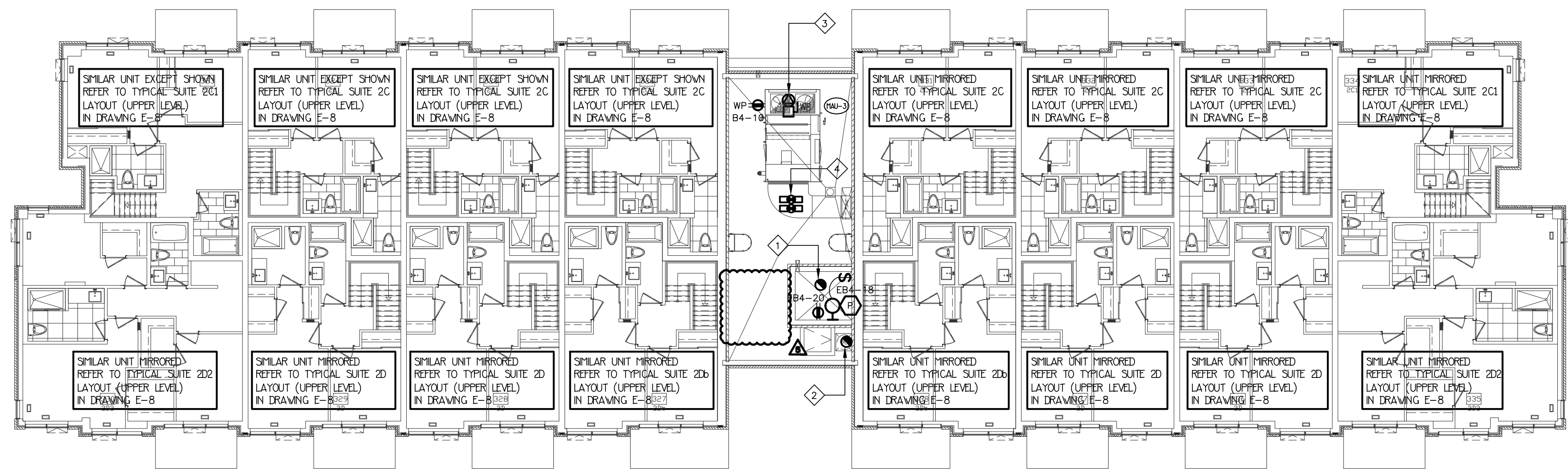
- ELEVATOR SHAFT HEAT DETECTOR AT TOP OF SHAFT
- HEAT DETECTOR AT THE TOP OF GARBAGE CHUTE C/W FIRE ALARM ZONE
- MAKE UP AIR UNIT (MOUNTED ON ROOF) FED FROM MOIST
- DUCT MOUNTED SMOKE DETECTOR C/W FIRE ALARM ZONE



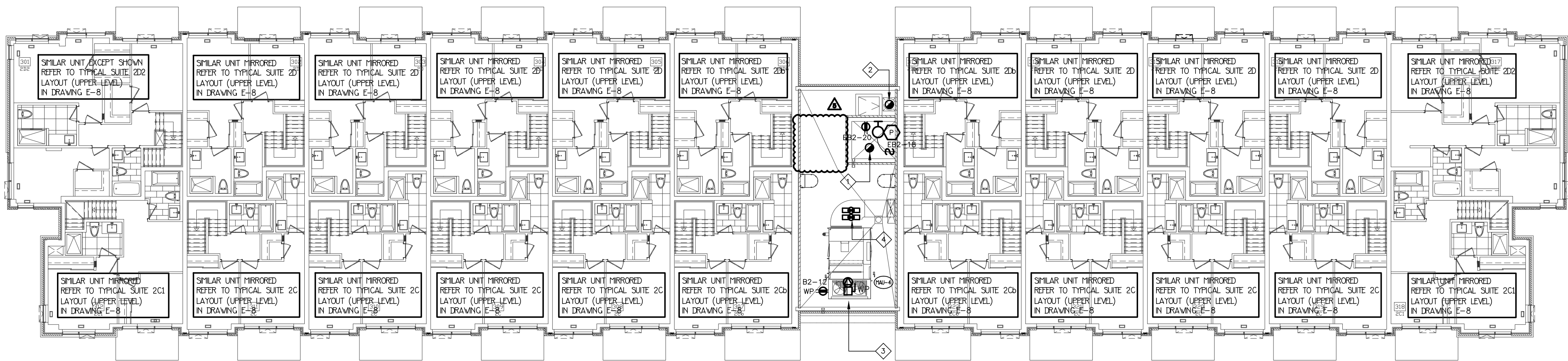
4TH FLOOR LOBBY ENTRANCE BUILDING D



4TH FLOOR LOBBY ENTRANCE BUILDING C



4TH FLOOR LOBBY ENTRANCE BUILDING B



4TH FLOOR LOBBY ENTRANCE BUILDING A

NO.	BY	DESCRIPTION	DATE
05	SP	ISSUED FOR ADD E-4	FEB. 08, 2021
04	SP	ISSUED FOR ADD E-3	JAN. 19, 2021
03	SP	ISSUED FOR PERMIT	SEP. 28, 2020
02	SP	ISSUED FOR ADD E-2	JUN. 15, 2020
01	SP	ISSUED FOR TENDER	AUG. 02, 2019

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Tel: (416) 398 1995, Fax: (416) 398 1933

TITLE
**4TH FLOOR PLAN
ELECTRICAL**

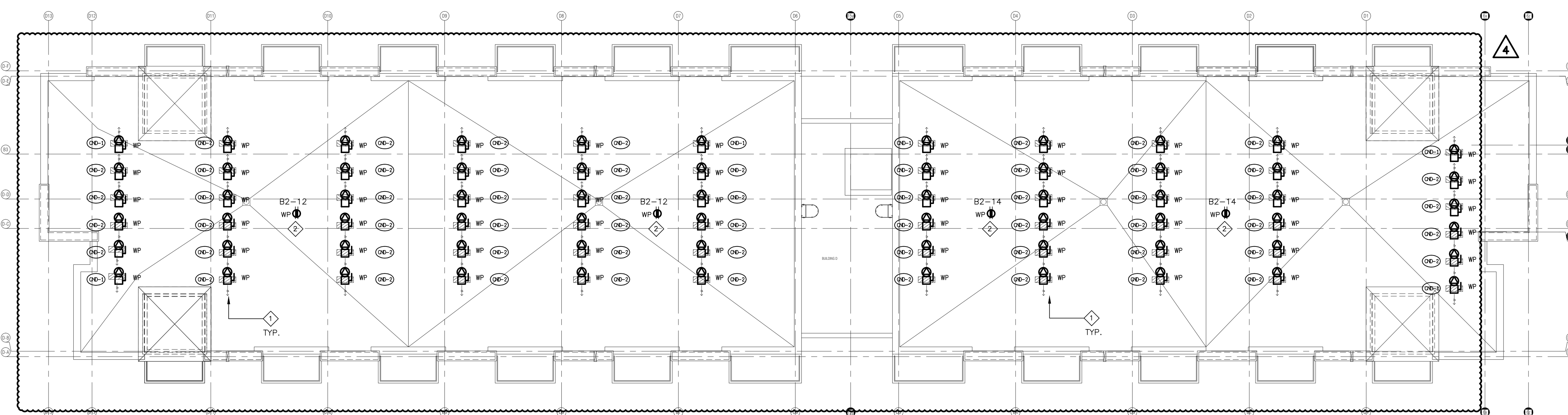
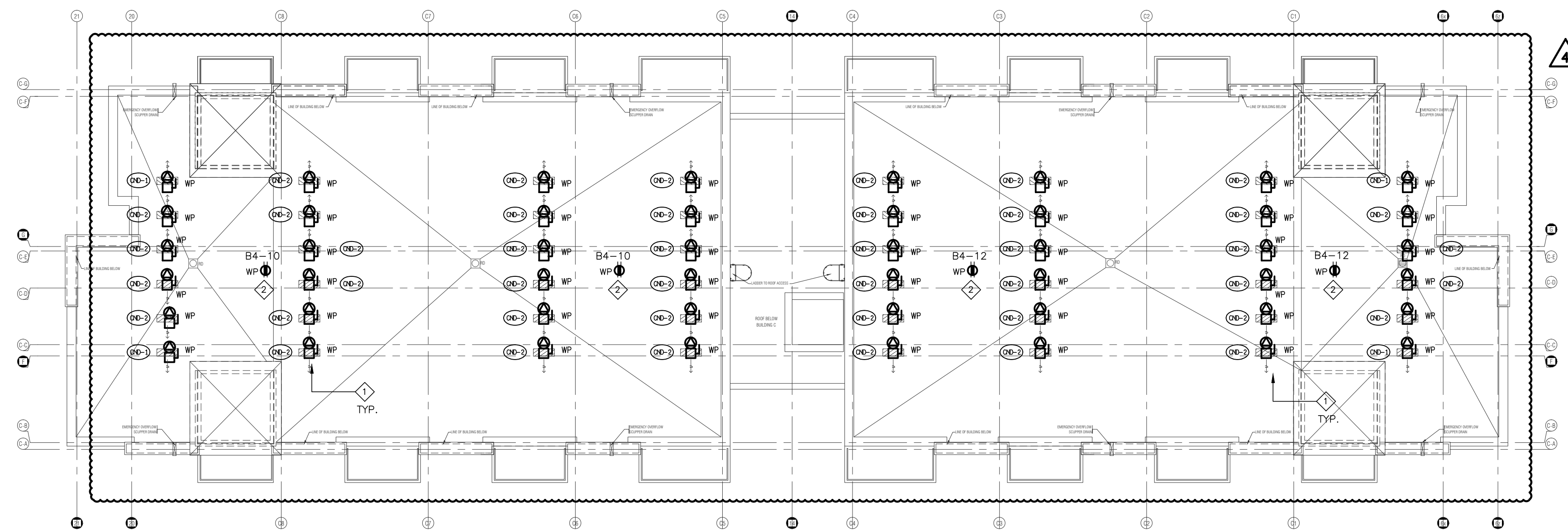
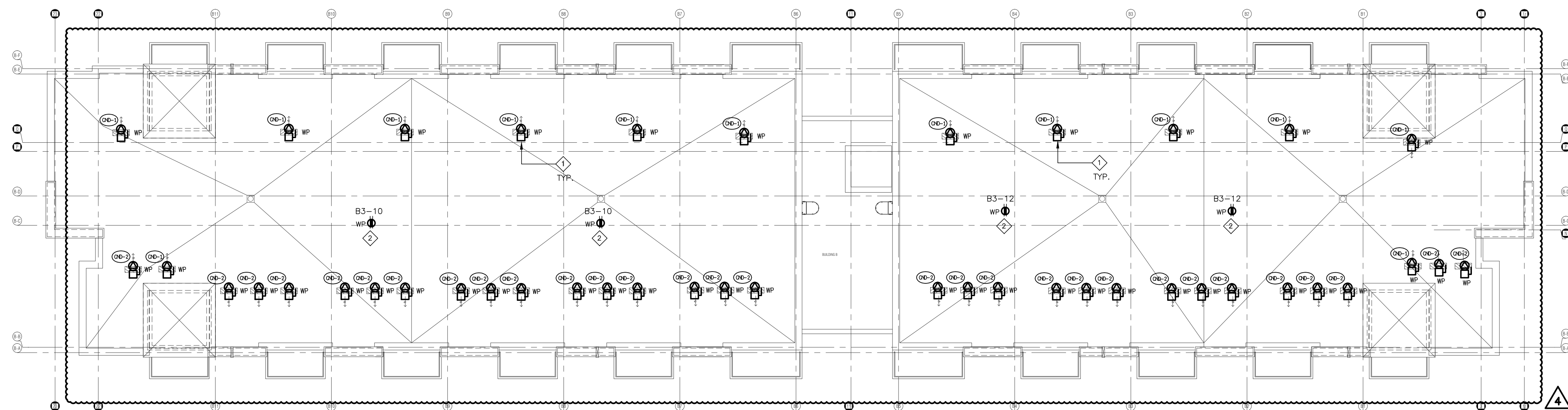
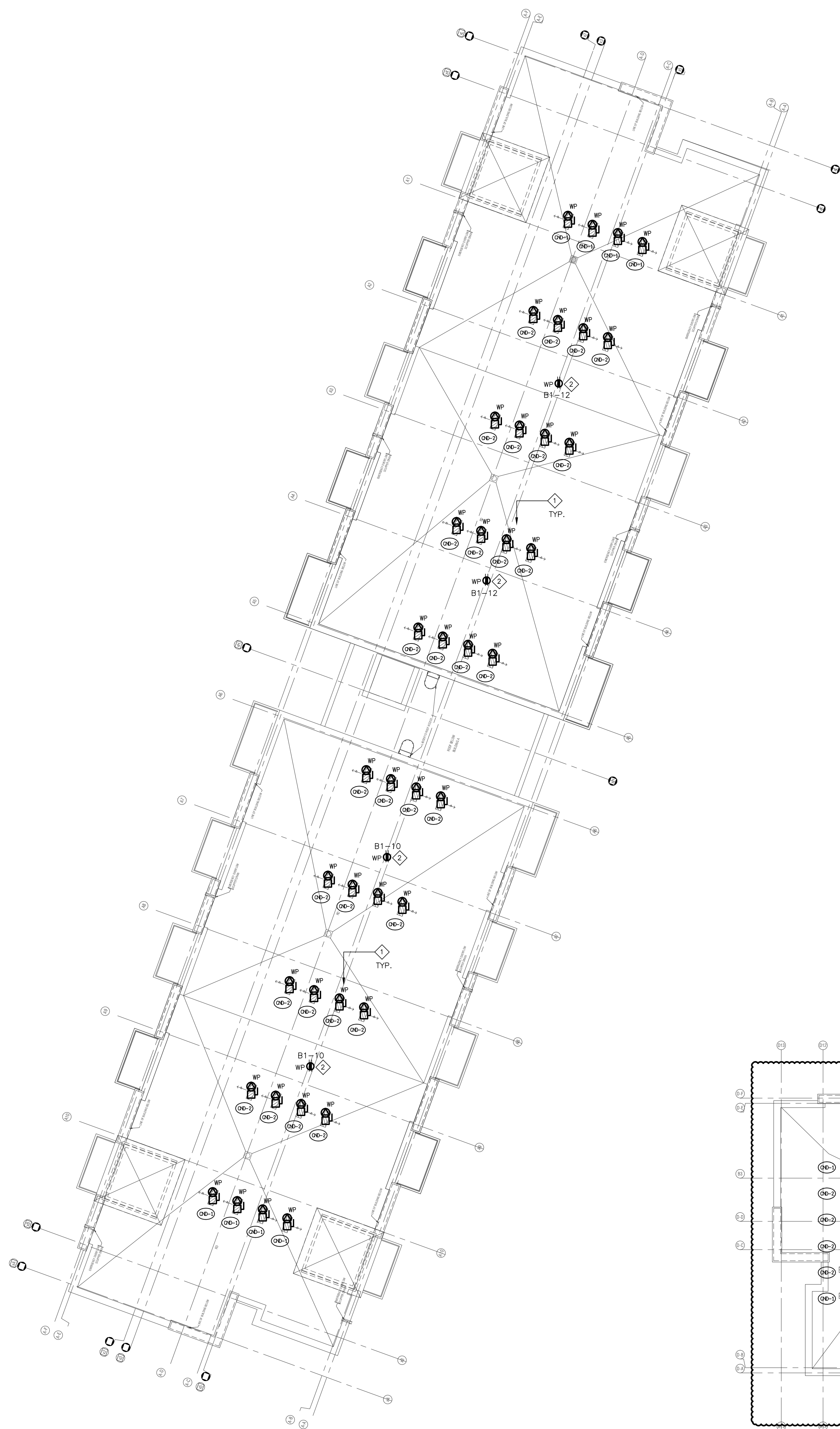
PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
SP	MG	1:150
DATE	PROJECT	DRAWING
MAY, 2019	18-017	E-6
		OF 16

KEY NOTES

- ◇ CONDENSING UNIT FED FROM STACKED HOUSE SUITE PANEL
REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITY
- ◇ WEATHER PROOF PEDESTAL MOUNTED RECEPTACLES



NO.	BY	DESCRIPTION	DATE
04	SP	ISSUED FOR ADD E-3	JAN. 19, 2021
03	SP	ISSUED FOR PERMIT	SEP. 28, 2020
02	SP	ISSUED FOR ADD E-2	JUN. 15, 2020
01	SP	ISSUED FOR TENDER	AUG. 02, 2019

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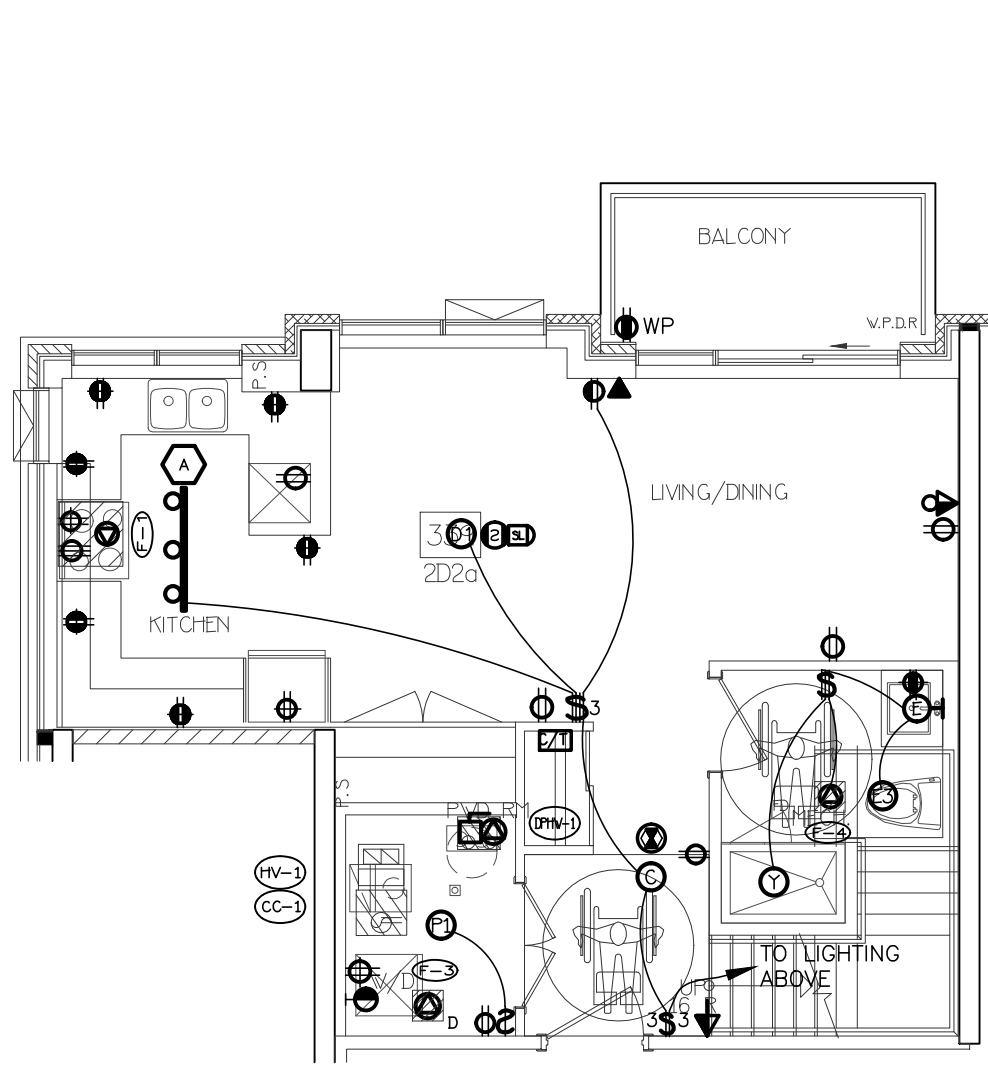


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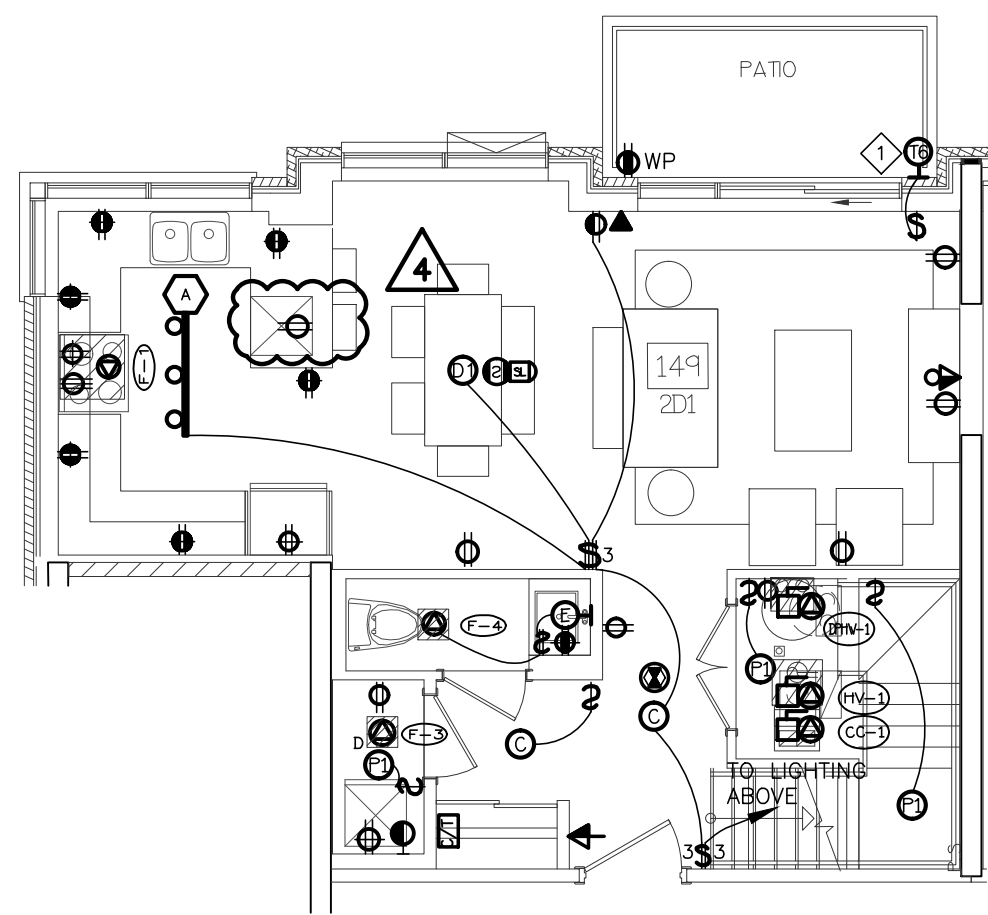
TITLE
**ROOF PLAN
ELECTRICAL**

PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**
**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

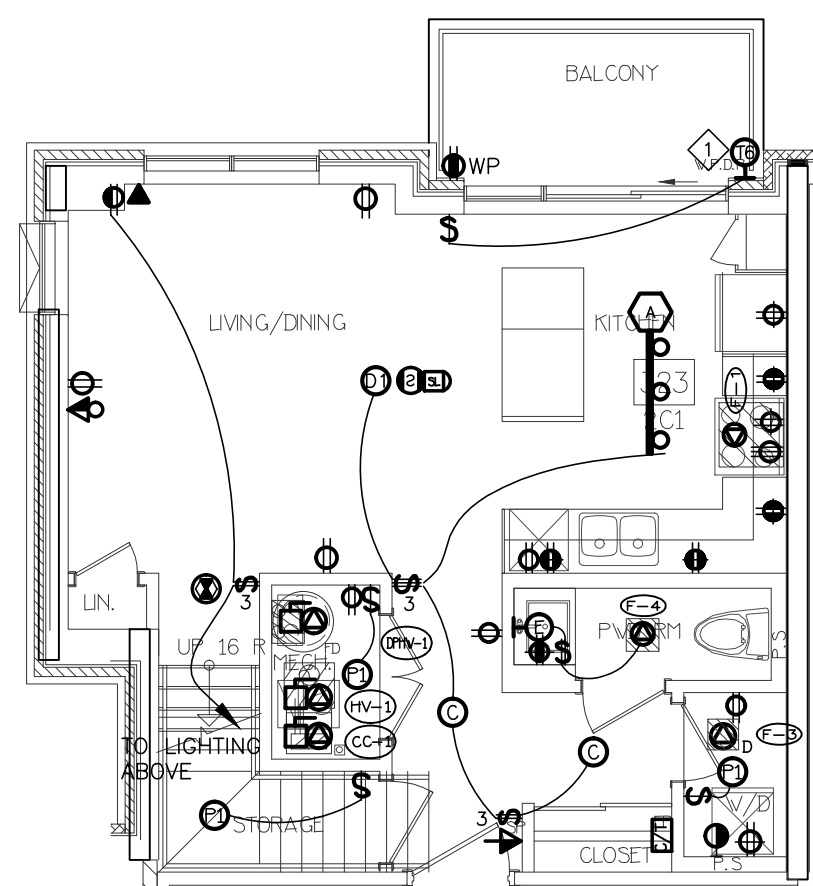
DRAWN SP	CHECKED MG	SCALE 1:150
DATE MAY, 2019	PROJECT 18-017	DRAWING E-7 OF 16



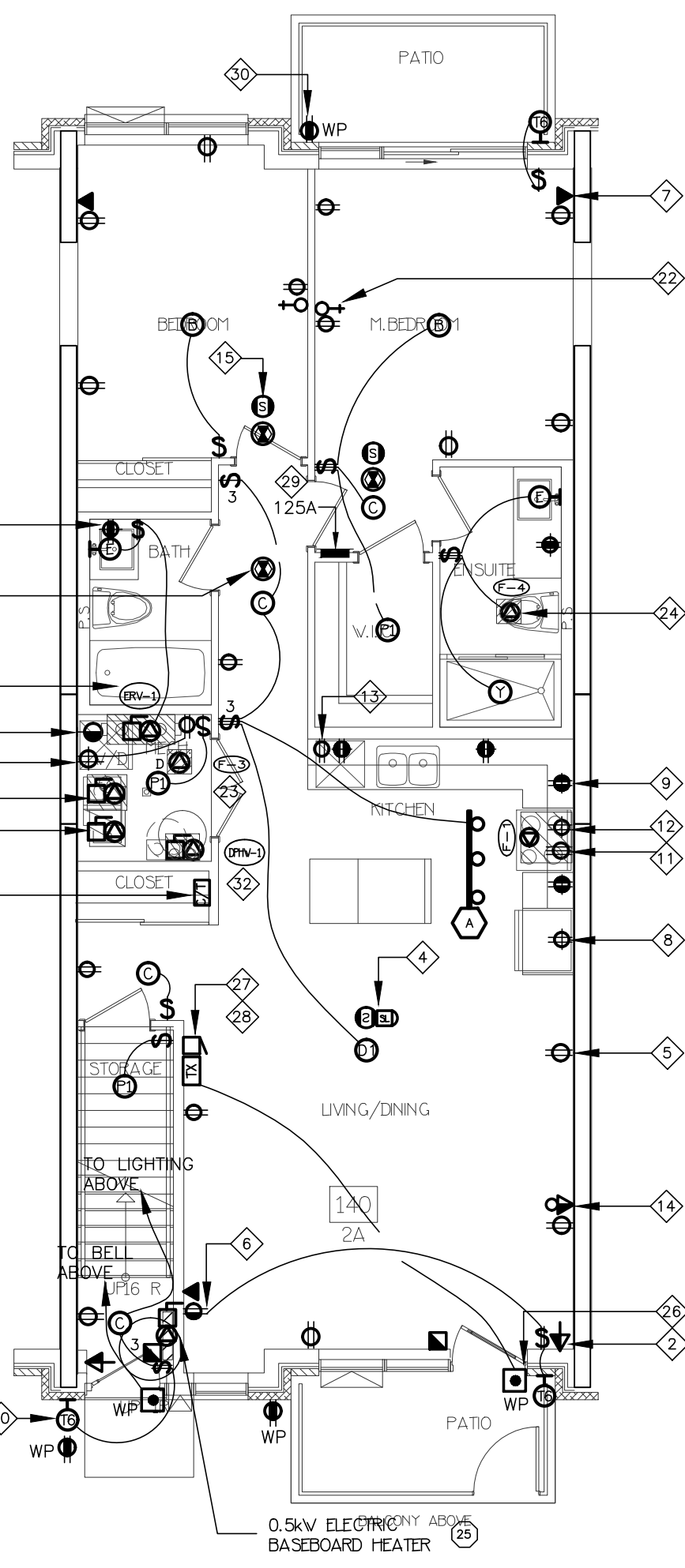
21 SUITE LAYOUT TYPE 2D2a
LOWER LEVEL



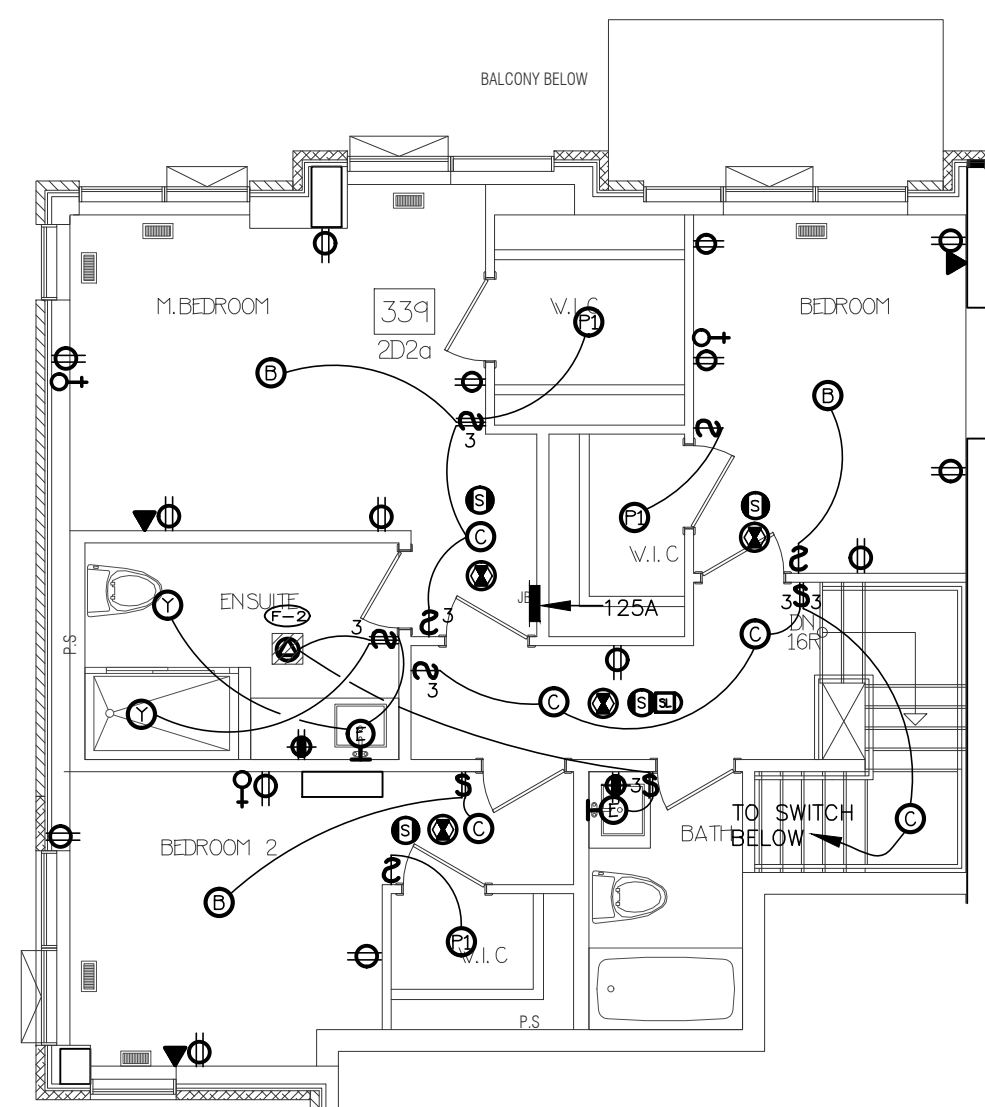
17 SUITE LAYOUT TYPE 2D1
LOWER LEVEL



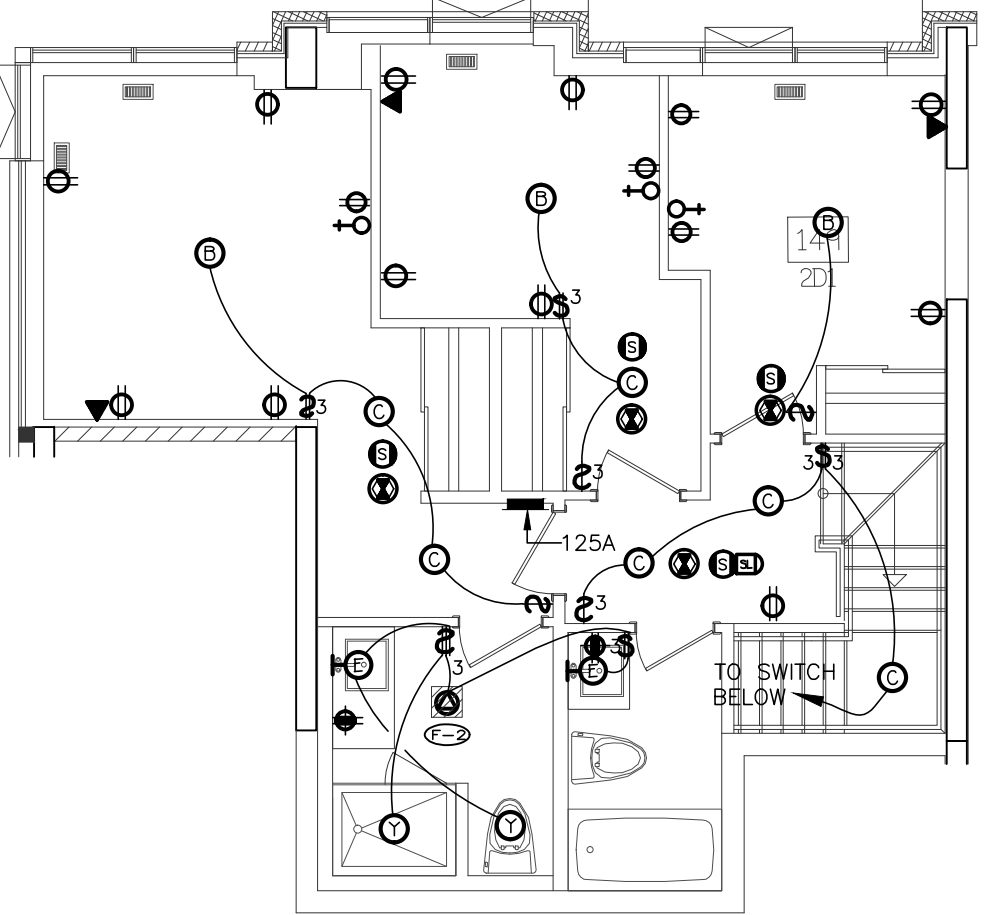
11 SUITE LAYOUT TYPE 2C1
LOWER LEVEL



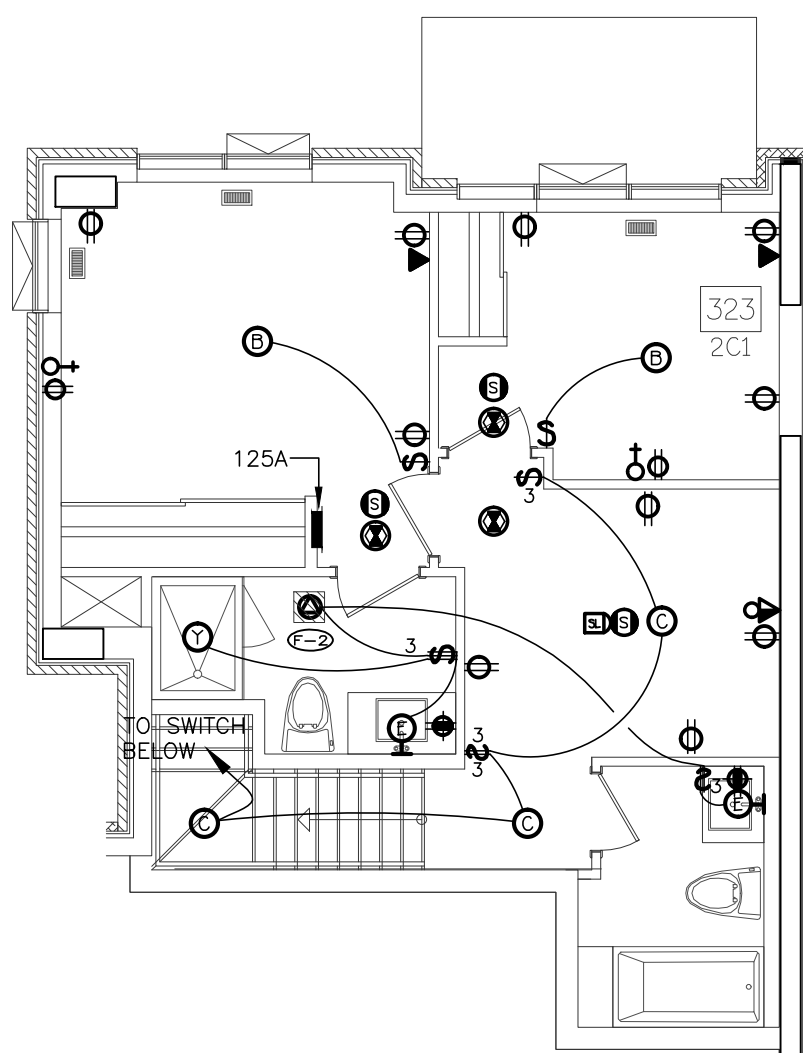
1 SUITE LAYOUT TYPE 2A & 2A2
GROUND FLOOR



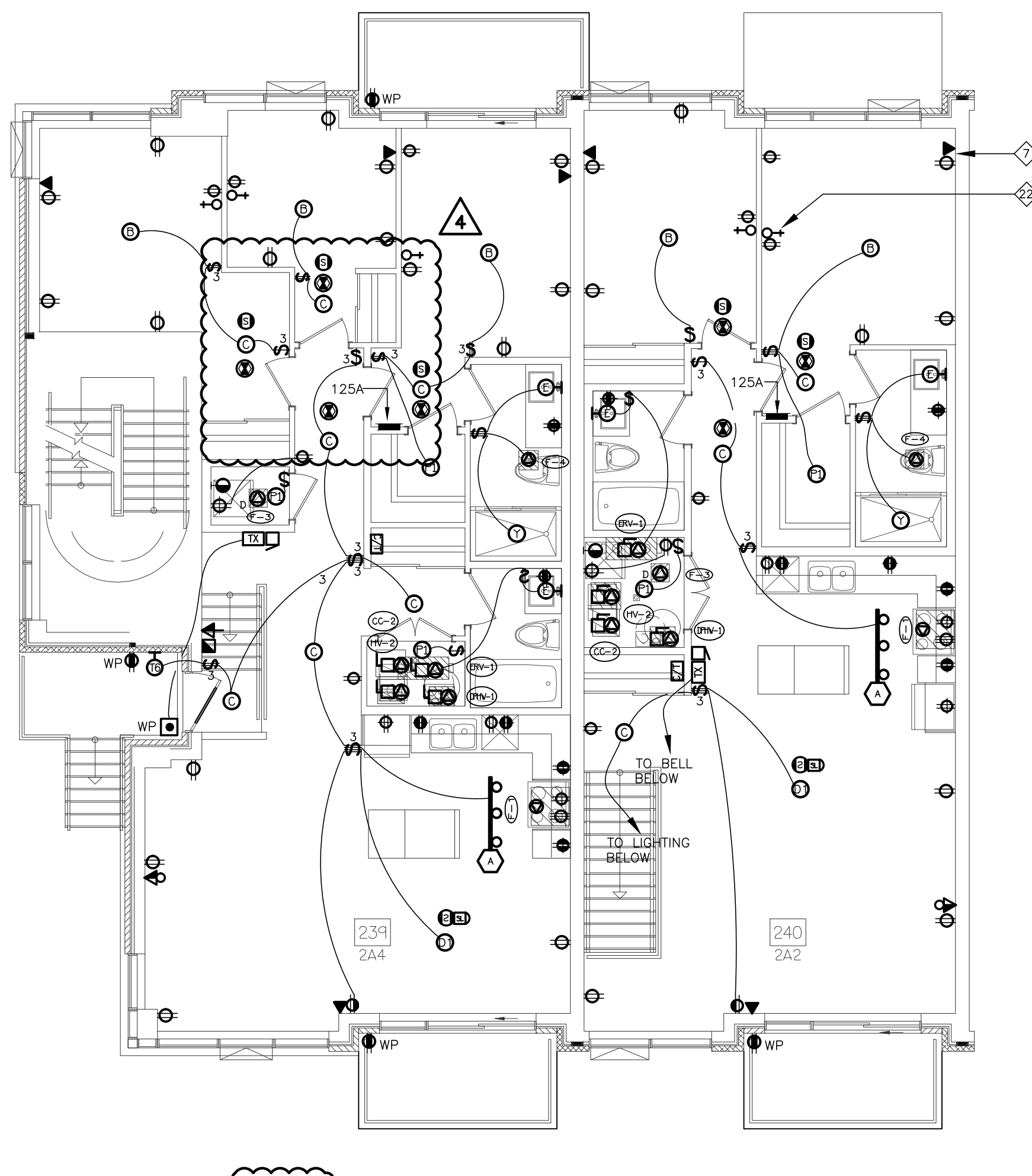
22 SUITE LAYOUT TYPE 2D2a
UPPER LEVEL



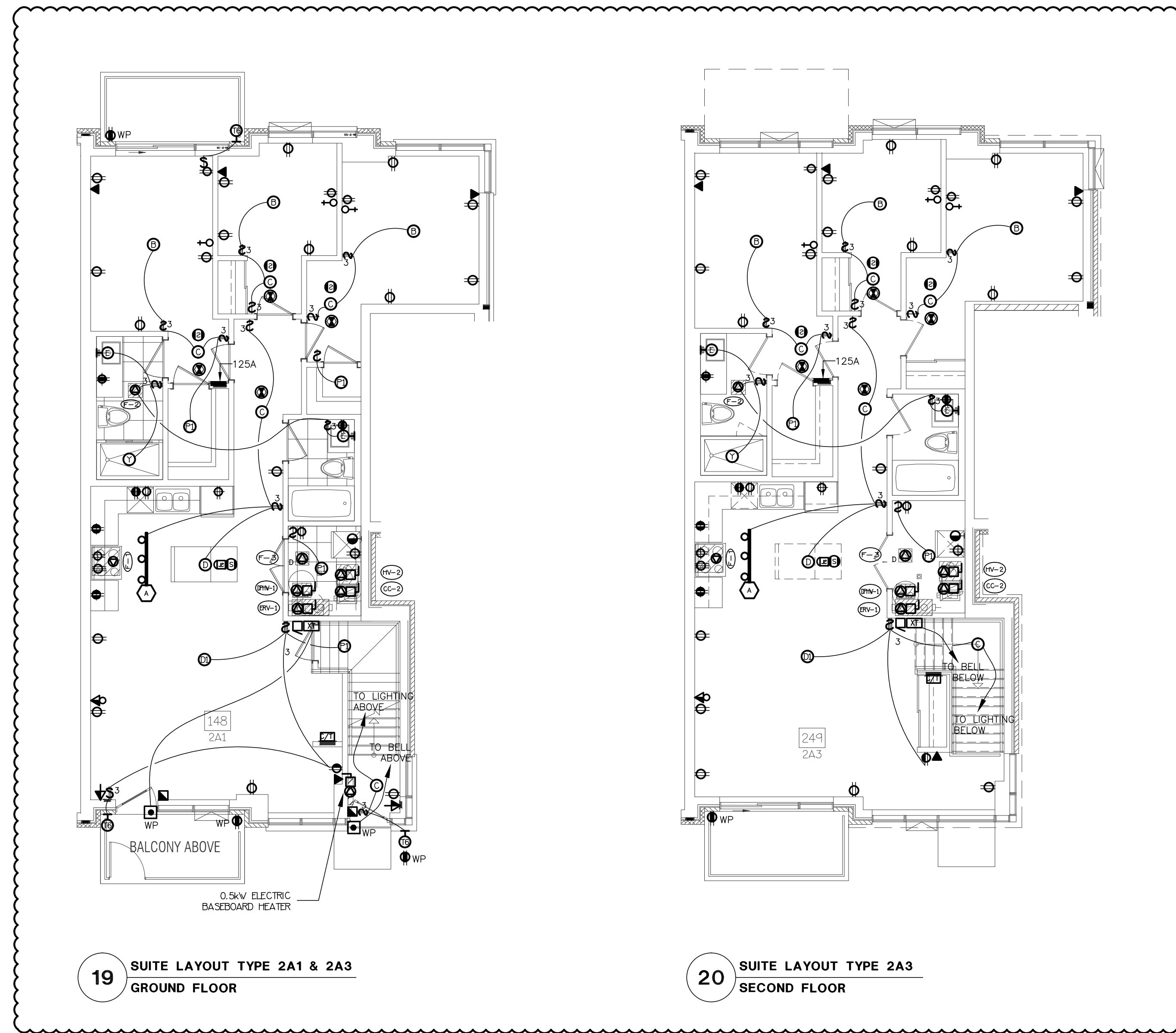
18 SUITE LAYOUT TYPE 2D1
UPPER LEVEL



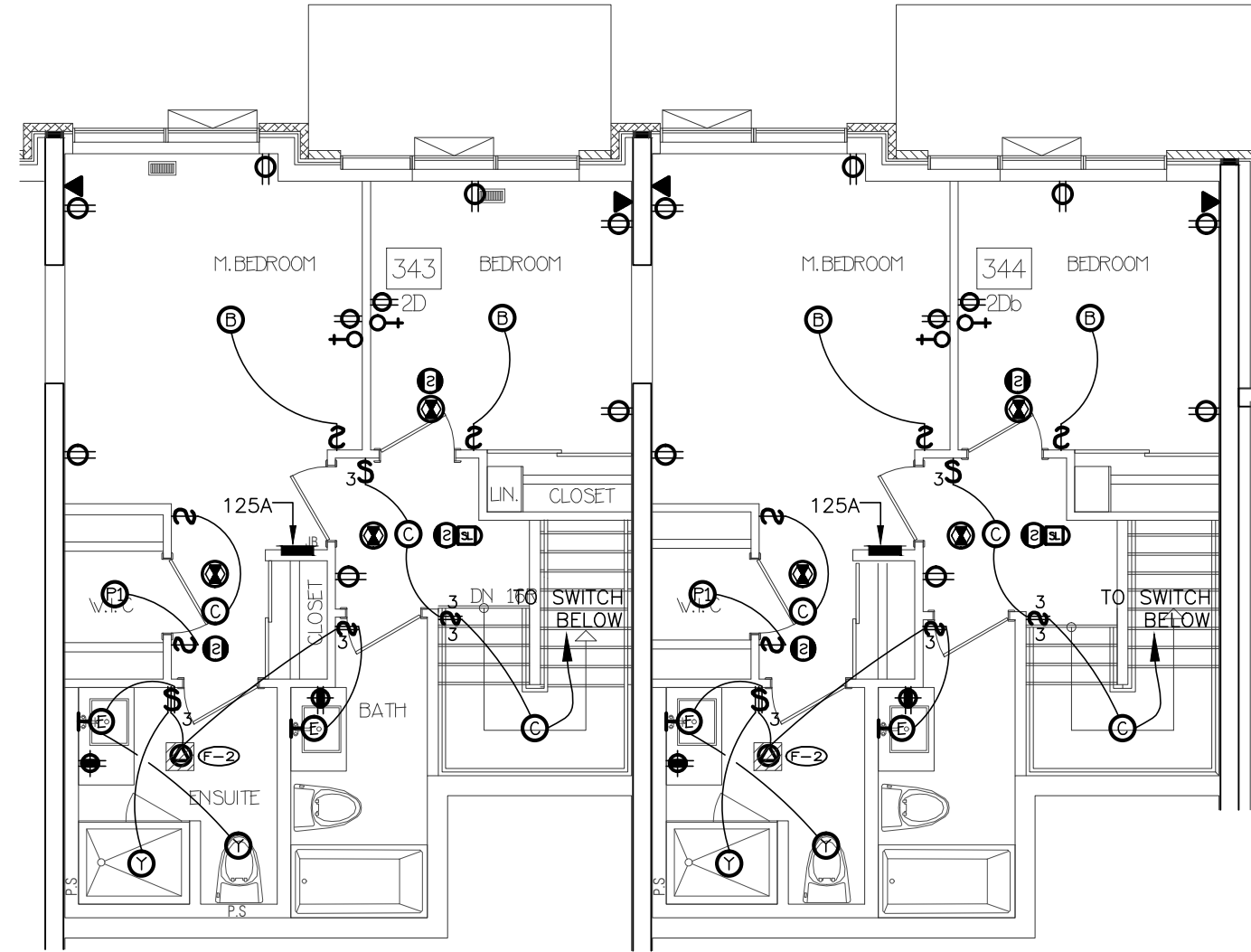
12 SUITE LAYOUT TYPE 2C1
UPPER LEVEL



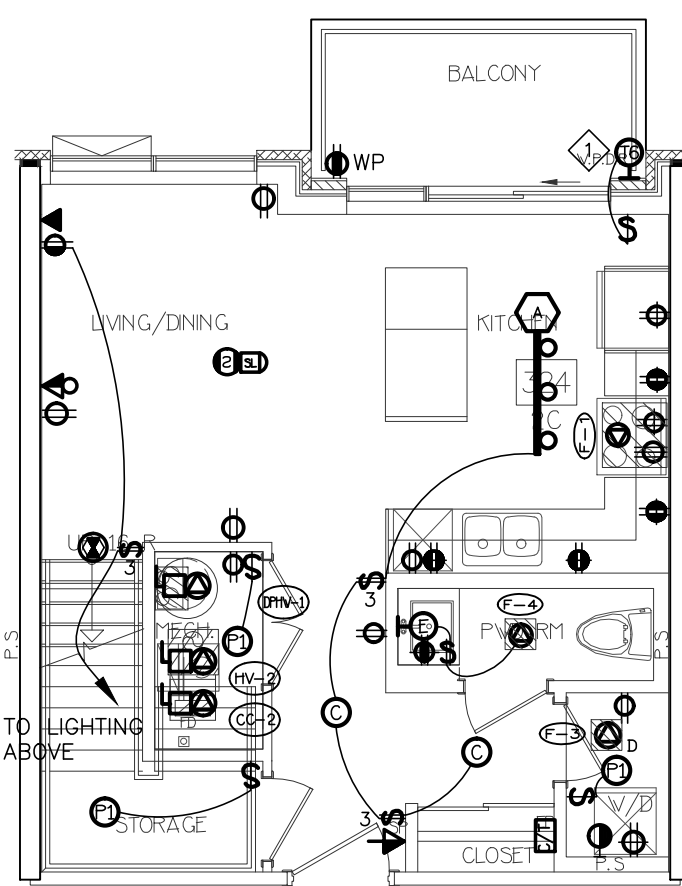
2 SUITE LAYOUT TYPE 2A4 & 2A2
SECOND FLOOR



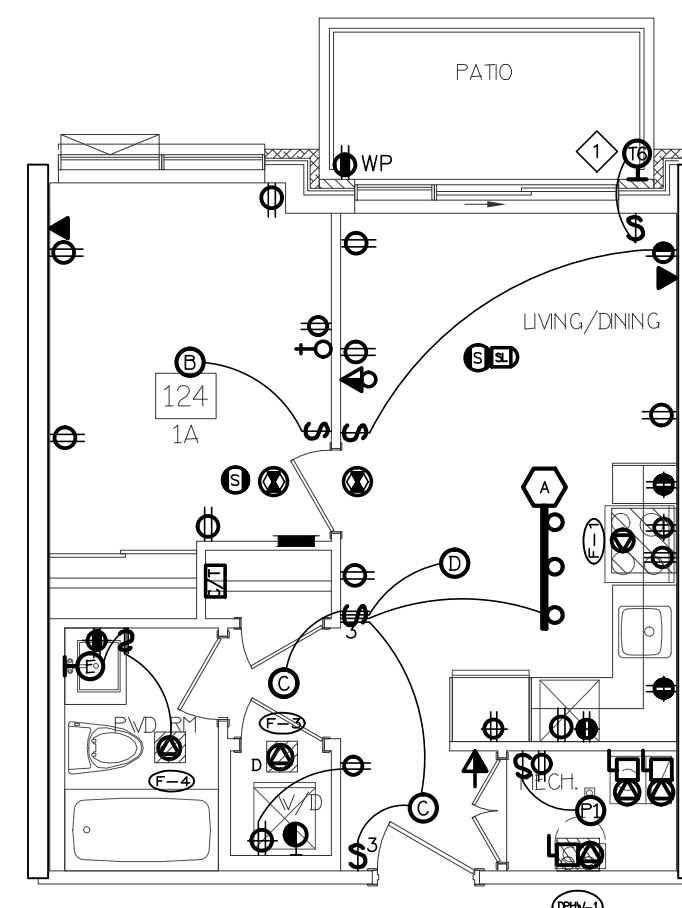
19 SUITE LAYOUT TYPE 2A1 & 2A3
GROUND FLOOR



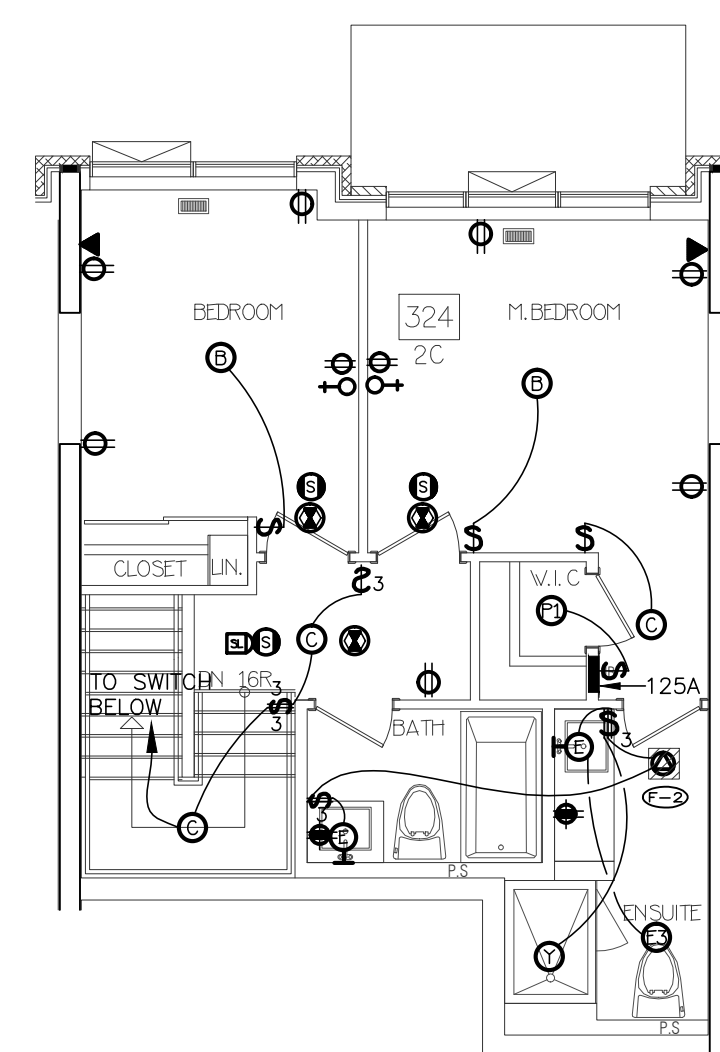
14 SUITE LAYOUT TYPE 2D & 2Db
UPPER LEVEL



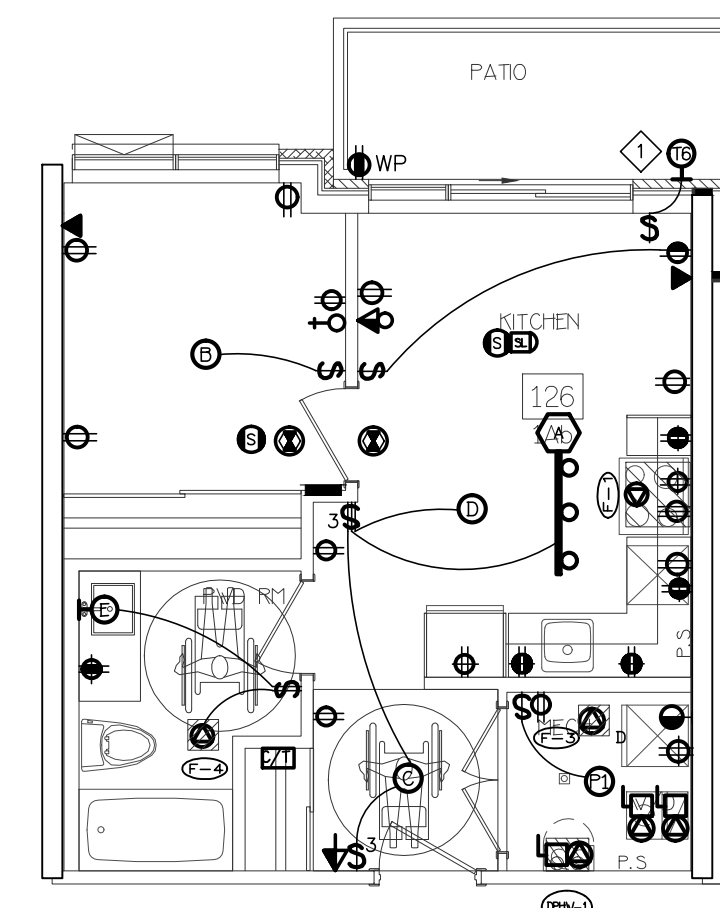
7 SUITE LAYOUT TYPE 2C & 2Ca
LOWER LEVEL



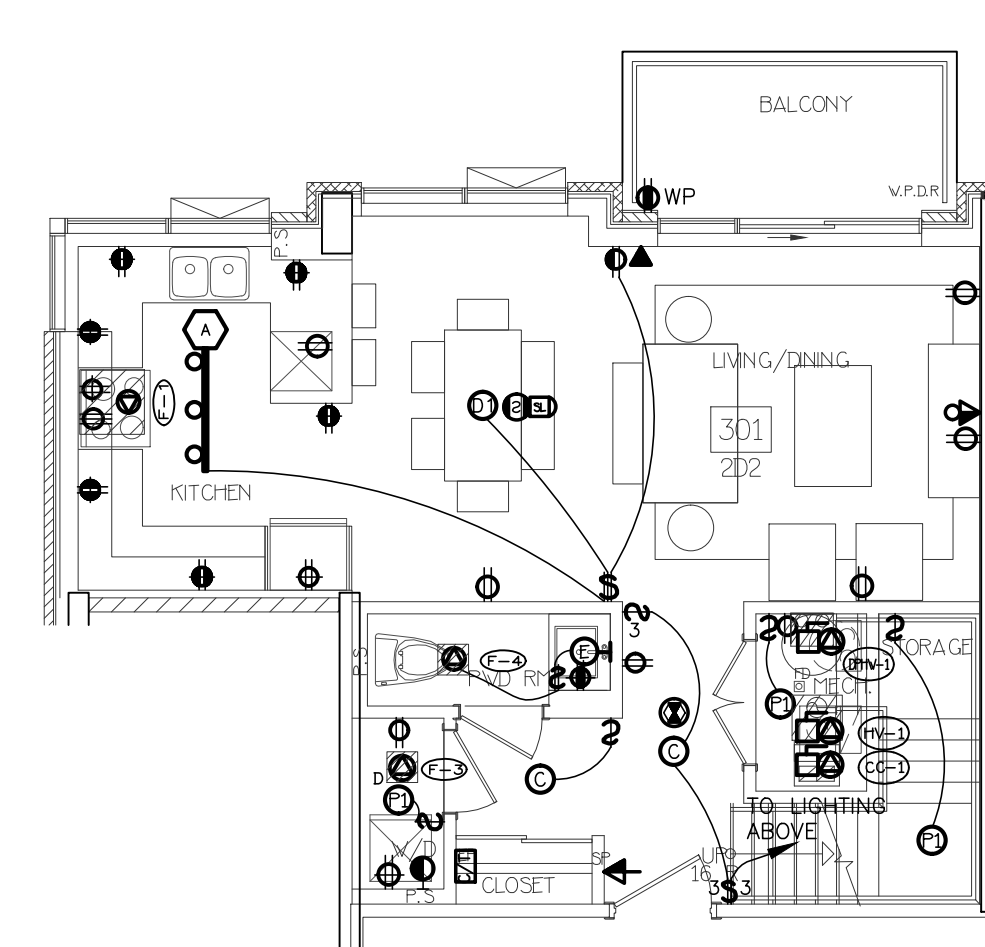
3 SUITE LAYOUT TYPE 1A & 1Aa
ONE FLOOR LEVEL



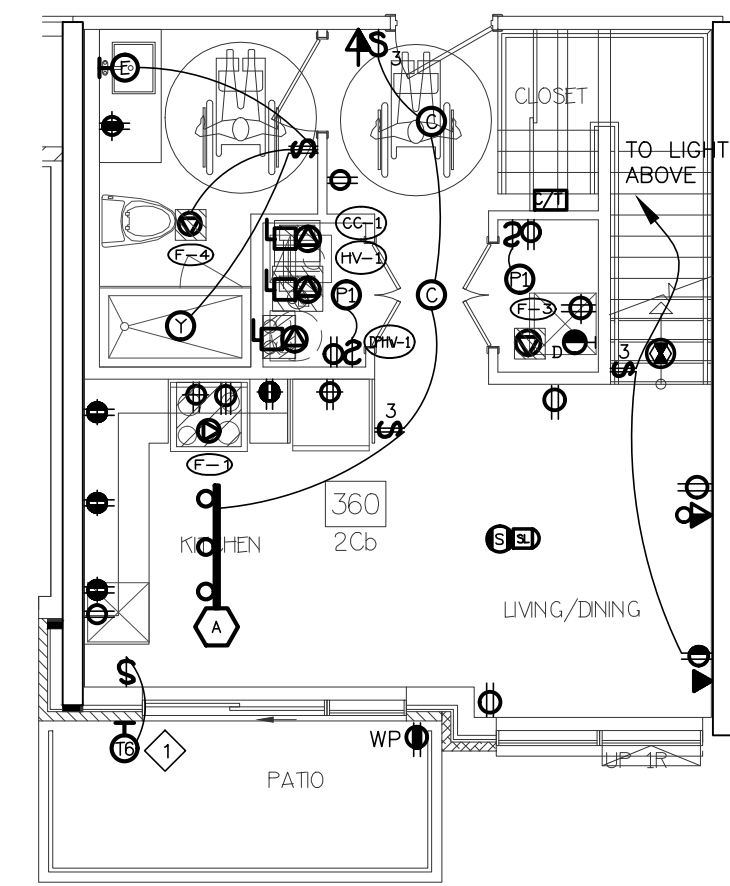
8 SUITE LAYOUT TYPE 2C & 2Ca
UPPER LEVEL



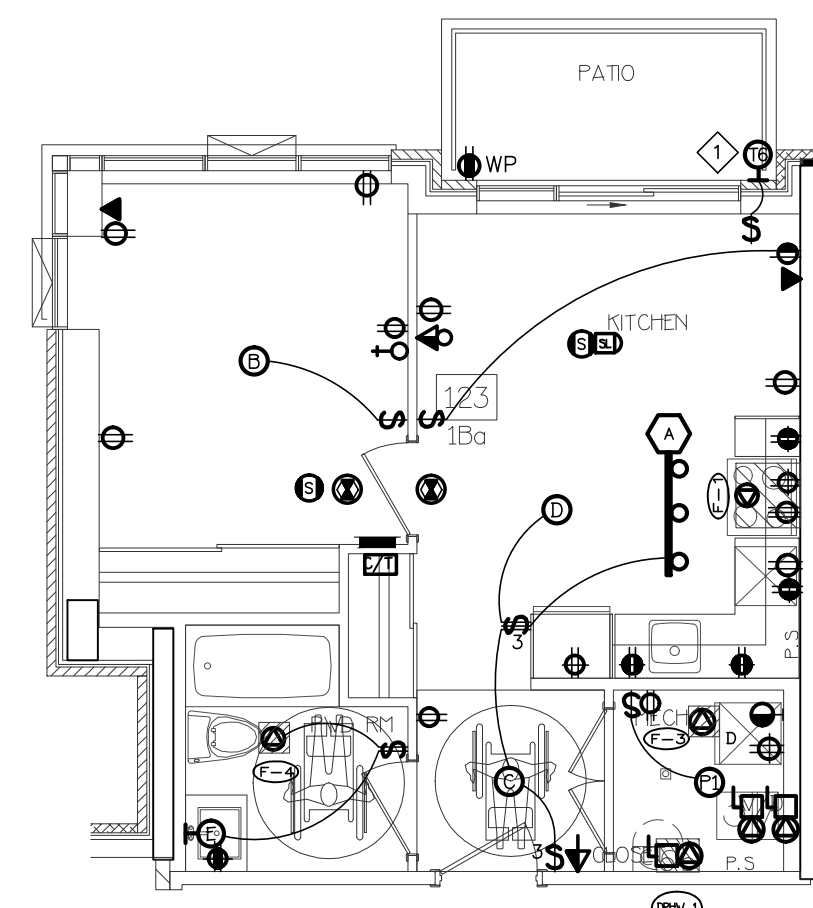
4 SUITE LAYOUT TYPE 1Ab
ONE FLOOR LEVEL



15 SUITE LAYOUT TYPE 2D2
LOWER LEVEL

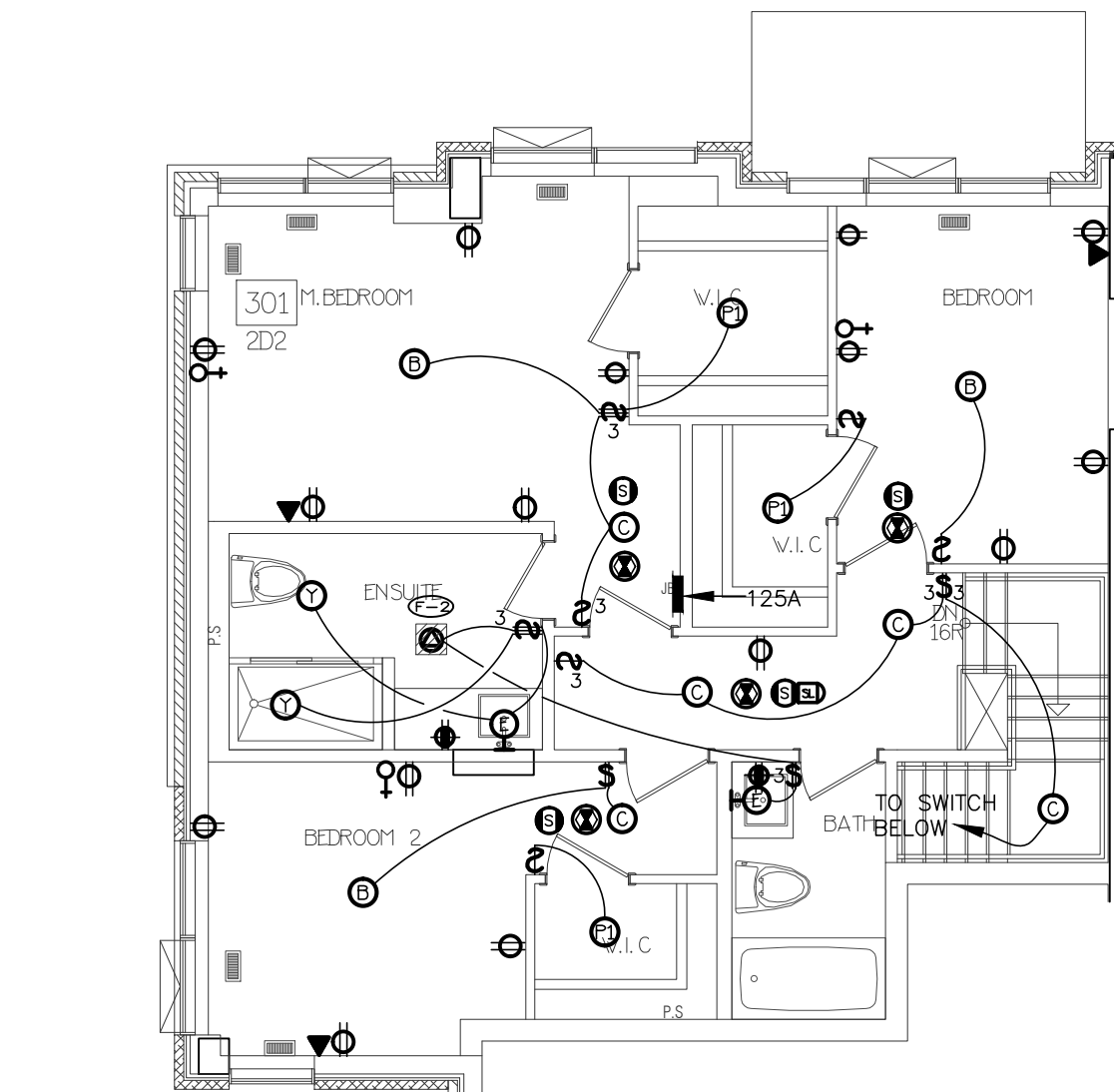


9 SUITE LAYOUT TYPE 2Cb
LOWER LEVEL

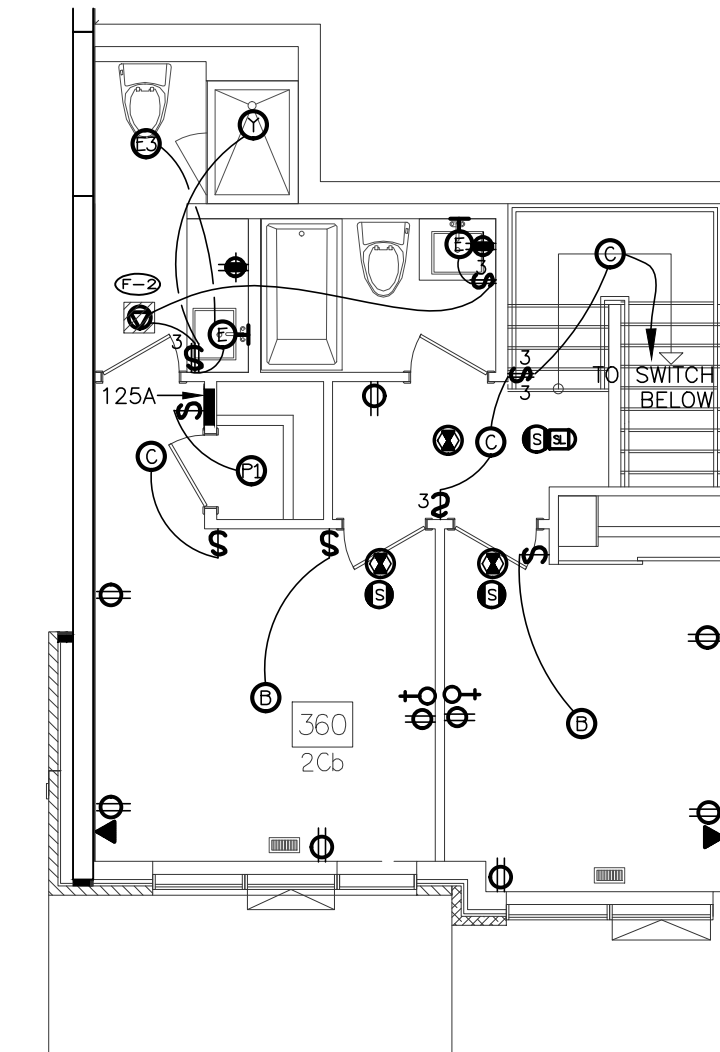


5 SUITE LAYOUT TYPE 1Ba
ONE FLOOR LEVEL

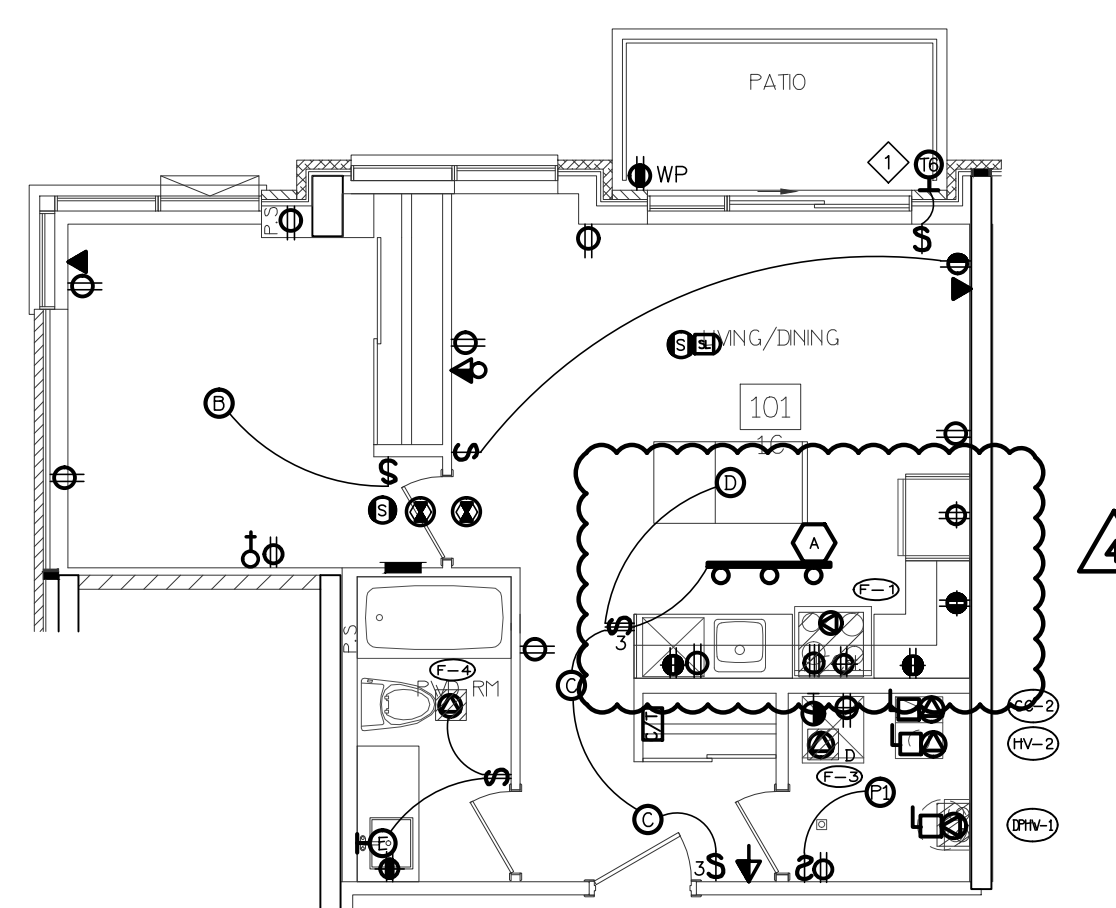
- ### SUITES' KEY NOTES (TYPICAL)
- NOT USED
 - SUITE INTRUSION ALARM AND KEYPAD WITH DIGITAL DISPLAY
 - IN SUITE TELEPHONE/TV COMBO DISTRIBUTION PANEL
 - CEILING MOUNTED FIRE ALARM COMBINATION SPEAKER/STROBE LIGHT
 - 120V U-GROUND DUPLEX RECEPTACLE FOR GENERAL PURPOSES
 - 120V U-GROUND DUPLEX RECEPTACLE WITH ONE HALF SWITCH CONTROLLED
 - WALL MOUNTED TELEPHONE OUTLET
 - 120V, 15A, RECEPTACLE FOR FRIDGE
 - 120V, 20A, T-SLOT RECEPTACLE MOUNTED ABOVE COUNTER TOP (ALL RECEPTACLES LOCATED WITHIN 1.0M OF KITCHEN SINKS ALONG THE WALL BEHIND THE COUNTERS SHALL BE PROTECTED BY GFI BREAKERS OF THE CLASS A TYPE)
 - TOWNHOUSE EXTERIOR LIGHTING TYPE TO BE CONFIRMED (TYPICAL), REFER TO ARCHITECTURE ELEVATION DRAWING FOR EXACT LOCATION AND QUANTITY
 - 250V, 1A, 4W, 50A, RECEPTACLE FOR RANGE, CONNECT WITH 3/8"10 BX OR 3/8"10 THW-19MM CONDUIT
 - RECEPTACLE FOR KITCHEN MICROWAVE AND EXHAUST FAN
 - 120V U-GROUND DUPLEX RECEPTACLE FOR DISHWASHER
 - WALL MOUNTED COMBINATION TV/TELEPHONE OUTLET
 - CEILING MOUNTED FIRE ALARM SPEAKER
 - CEILING MOUNTED 120V SMOKE ALARM/CARBON MONOXIDE COMBO DETECTOR
- ALL DETECTORS WITHIN SAME SUITE TO BE INTERCONNECTED AND HAVE A VISUAL SIGNALING COMPONENT IN ACCORDANCE WITH OBC
- DIRECT CONNECTION FOR ERV UNIT AT HIGH LEVEL, PROVIDE RECEPTACLES IF REQUIRED, REFER TO MECHANICAL DRAWING FOR MORE DETAILS
 - DIRECT CONNECTION FOR AIR HANDLE UNIT, REFER TO MECHANICAL DRAWING FOR MORE DETAILS
 - 120V U-GROUND DUPLEX GFI RECEPTACLE FOR WASHROOM
 - 120V, 15A, RECEPTACLE FOR WASHER
 - 250V, 1A, 4W, 30A, RECEPTACLE FOR DRYER, CONNECT TO 3/8"10 BX OR 3/8"10 THW-19MM CONDUIT
 - WALL MOUNTED TV OUTLET
 - DIRECT CONNECTION FOR DRYER EXHAUST FAN
 - DIRECT CONNECTION FOR WASHROOM EXHAUST FAN
 - RECESSED TYPE 0.5KW HEATER
 - PUSH BUTTON (DOOR RINGER)
 - SIGNAL TRANSFER
 - SIGNAL BUZZER
 - FLUSH MOUNTED SUITE SERVICE PANEL, SEE DRAWING E-13 FOR SUITE PANEL SCHEDULE
 - 120V U-GROUND DUPLEX GFI, WEATHER PROOF RECEPTACLE IN BALCONY (TYPICAL FOR 1ST FLOOR AND EXTERIOR BALCONY ONLY)
 - 120V U-GROUND DUPLEX WEATHER PROOF RECEPTACLE IN BALCONY (TYPICAL FOR 2ND TO 4TH FLOOR)
 - DIRECT CONNECTION FOR CONDENSING UNIT/COOLING COIL, LOCATION OF CONDENSING UNIT SHOWN IN DRAWING E-2A/2B & E-7A/7B, REFER TO MECHANICAL DRAWING FOR MORE DETAILS, CONFIRM EXACT FEEDER REQUIREMENT WITH UNIT SHOP DRAWING
 - DIRECT CONNECTION FOR CONDENSING COMBI BOILER, REFER TO MECHANICAL DRAWING FOR MORE DETAILS
- NOTES:
ALSO REFER TO TYPICAL SUITES NOTES ON DRAWING E-xx. (ALL RECEPTACLES SHALL BE PROTECTED BY AFC-I/MC INTERRUPTERS)



16 SUITE LAYOUT TYPE 2D2
UPPER LEVEL



10 SUITE LAYOUT TYPE 2Cb
UPPER LEVEL



6 SUITE LAYOUT TYPE 1C
ONE FLOOR LEVEL

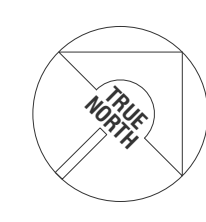
KEY NOTES

- PATIO EXTERIOR LIGHTING ONLY ON GROUND FLOOR

NO.	BY	DESCRIPTION	DATE
04	SP	ISSUED FOR ADD E-3	JAN. 19, 2021
03	SP	ISSUED FOR PERMIT	SEP. 28, 2020
02	SP	ISSUED FOR ADD E-2	JUN. 15, 2020
01	SP	ISSUED FOR TENDER	AUG. 02, 2019

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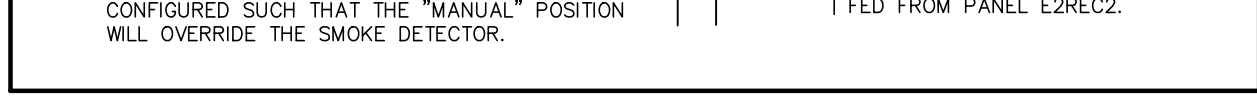
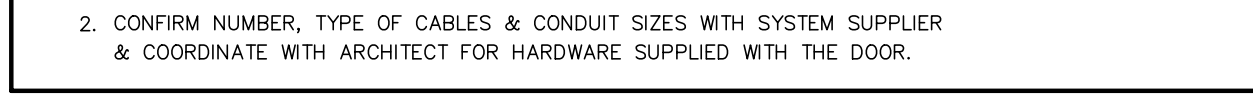
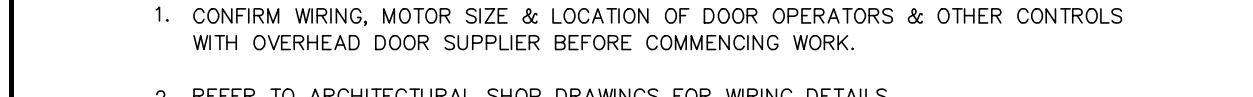


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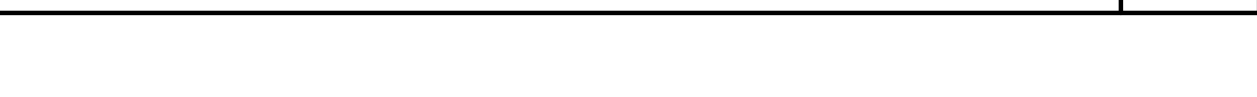
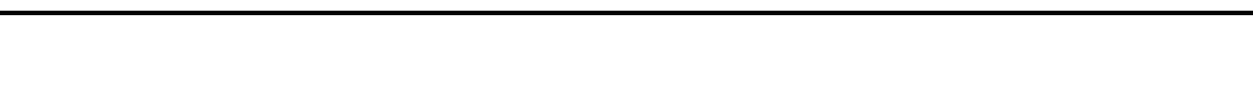
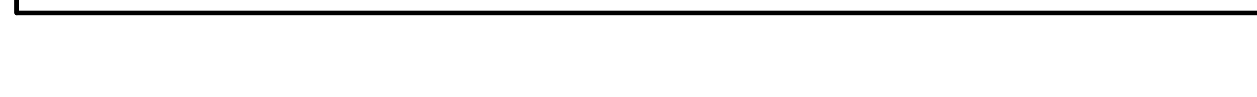
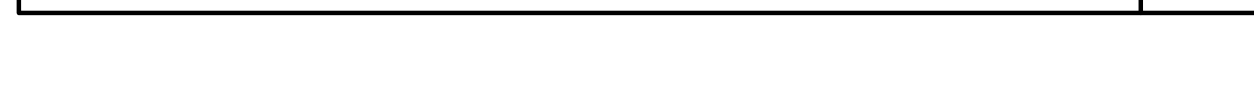
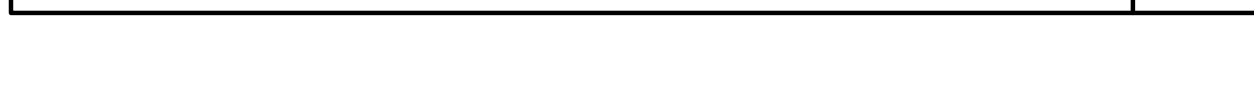
TITLE
**TYPICAL SUITE LAYOUT
ELECTRICAL**

PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN SP	CHECKED MG	SCALE 1:75
DATE MAY, 2019	PROJECT 18-017	DRAWING E-8
		OF 16



ELECTRIC HEATER SCHEDULE	SCALE: N.T.S.
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03	SP	ISSUED FOR PERMIT	SEP. 28, 2020
02	SP	ISSUED FOR ADD E-2	JUN. 15, 2020
01	SP	ISSUED FOR TENDER	AUG. 02, 2019

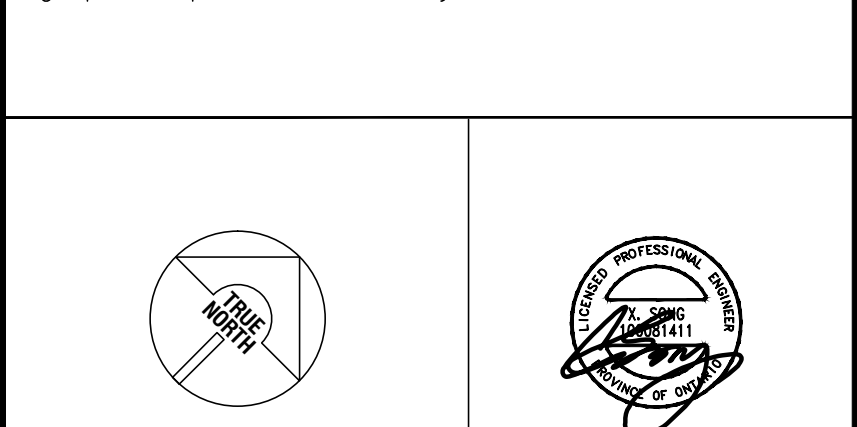
NO.	BY	DESCRIPTION	DATE
REVISIONS			

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 Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE	DETAILS A ELECTRICAL
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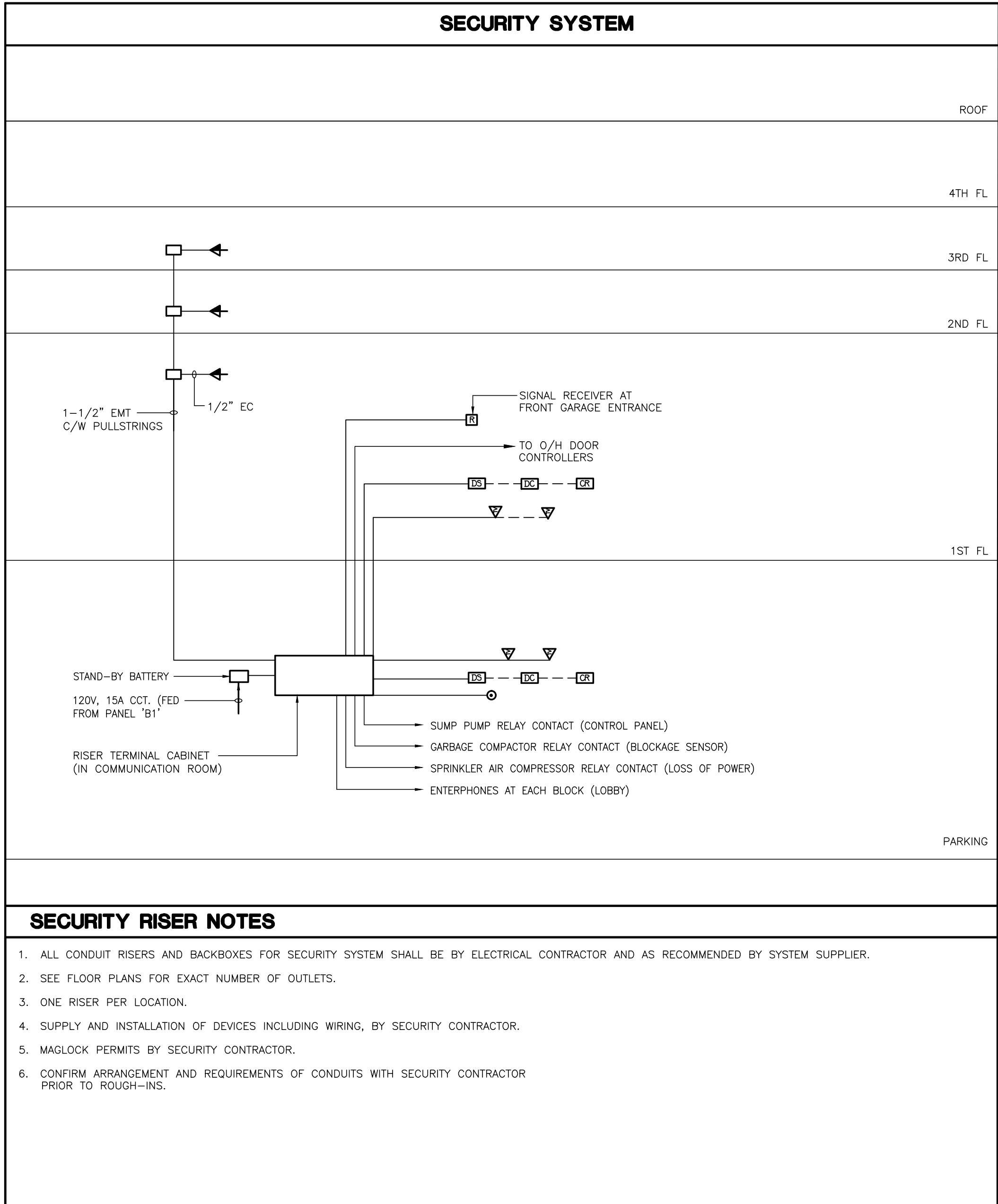
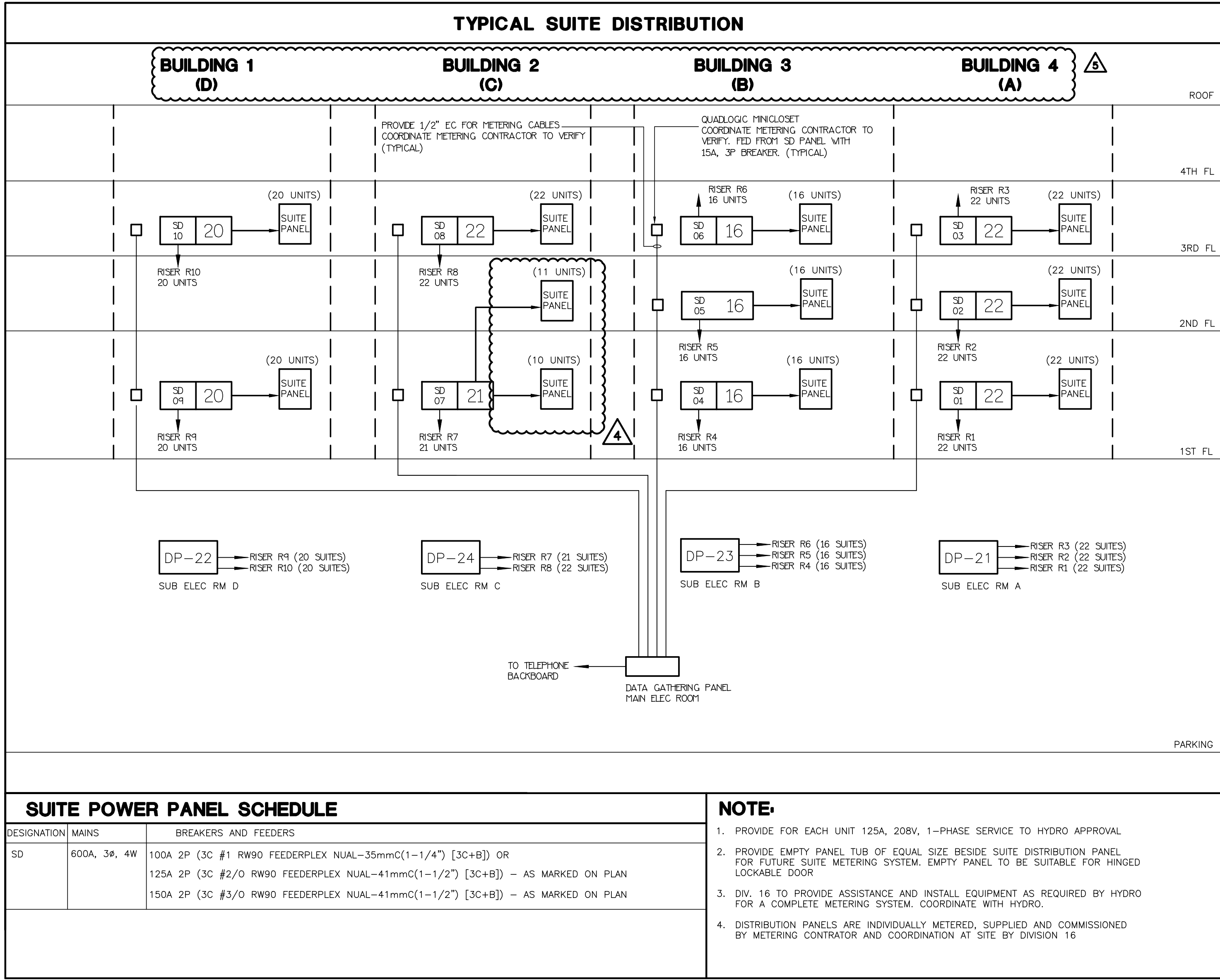
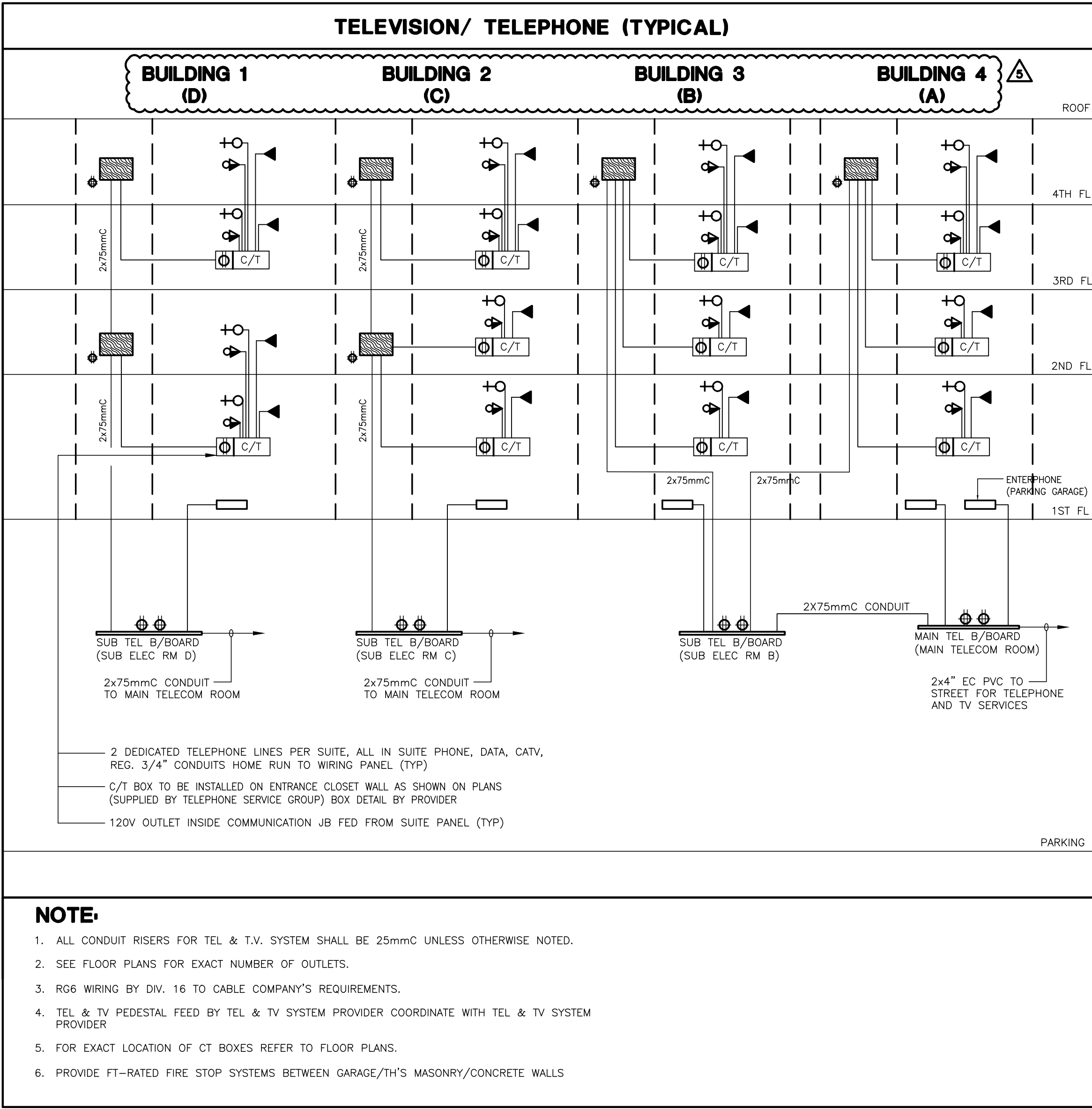
BRAMPTON STACKED
FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN SP	CHECKED MG	SCALE N.T.S.
DATE MAY, 2019	PROJECT 18-017	DRAWING E-9A OF 16



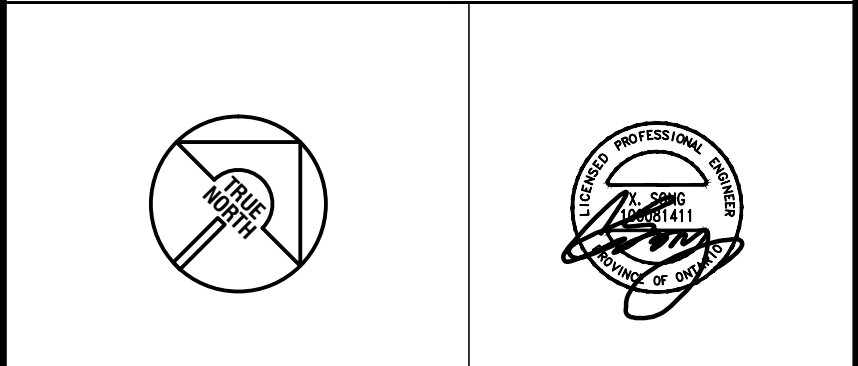
		16
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METERING NOTES (ELECTRICAL AND WATER SUBMETERING)	
1. ALL METERING EQUIPMENT (TRANSPONDERS, METER BASES, CT'S, TEST BLOCK, AND CABINETS) ARE TO BE SUPPLIED BY OTHERS. POWER REQUIREMENTS (FUSED DISCONNECTS, SPLITTER, DISCONNECT SWITCHED, AND DATA CABLING TO BE SUPPLIED BY ELECTRICAL CONTRACTOR. 2. DIVISION 16 TO INSTALL METERING SYSTEM AND COMPONENTS. 3. ALLOW FOR COORDINATION WITH METERING PROVIDER PRIOR TO ROUGH-IN OF METERING SYSTEM. 4. DIV. 16 TO PROVIDE SUITE DISTRIBUTION PANELS C/V WIREWAY AND ALLOW FOR INSTALLATION OF ASSOCIATED METERING EQUIPMENT (SEE NOTE #4) PROVIDED BY OTHERS 5. ALL CONDUITS FOR METERING EQUIPMENT BY DIV. 16. 6. PROVIDE EMPTY PANEL TUB OF EQUAL SIZE BESIDE SUITE DISTRIBUTION SUITE METERING SYSTEM. EMPTY PANEL TO BE PANEL FOR FUTURE SUITABLE FOR HINGED LOCKABLE DOOR	7. ALLOW FOR 12 CT DONUTS PER BOX, AND 2 CT DONUTS PER SUITE. PROVIDE A SEPARATE PRICE TO INSTALL DONUTS (SUPPLIED BY OTHERS) AT TIME OF SUITE FEEDER INSTALLATION 8. ALLOW FOR 12 CT DONUTS PER BOX, AND 2 CT DONUTS PER SUITE. CONTRACTOR TO PROVIDE AND INSTALL EMPTY METER BOX(S) TO METER SYSTEM SUPPLIER 9. COORDINATE THE INSTALLATION OF SUITE METERING SYSTEM WITH CLIENT. ALLOW FOR ALL COSTS ASSOCIATED WITH COORDINATION 10. COORDINATE THE INSTALLATION OF TAMPERPROOF CHECK METERING TO CLIENT'S APPROVAL. ALLOW FOR COORDINATION WITH SYSTEM SUPPLIER 11. ALL THE SD-4 PANELS ARE INDIVIDUALLY METERED, SUPPLIED AND COMMISSIONED BY METERING CONTRACTOR. PANEL INSTALLATION & COORDINATION AT SITE BY DIV.16
WATER SUBMETERING NOTES (FOR INFORMATION ONLY, CONFIRM WITH MEETRING SERVICE PROVIDER)	
1. PROVIDE CONDUIT NETWORK FOR METERING SYSTEM AS PER METERING SHOP DRAWINGS AND/OR BASE BUILDING ELECTRICAL DRAWINGS. 2. INSTALL METERING WIRE (18 AVG, 2-CONDUCTOR) THROUGHOUT METERING NETWORK AND TERMINATE AT EACH METER LOCATION. METERING WIRE IS SUPPLIED TO ELECTRODIAN BY PROVIDENT. METERING NETWORK WILL TYPICALLY FOLLOW PLUMBING RISERS VERTICALLY FOR 10-15 FLOORS, AND THEN BE CAST IN-SLAB FOR HORIZONTAL RUNS TO METERING SYSTEM METERING CLOSET(S). 3. PROVIDE 120 VAC POWER SUPPLY AT SELECTED ELECTRICAL CLOSET FOR INSTALLATION OF PROVIDENT METERING SYSTEM METERING CLOSET(S). 4. PROVIDE CONDUIT FOR CAT-5 CABLE FROM METERING CLOSET(S) TO LOCATION OF BUILDING INTERNET CONNECTION (EG. COMMUNICATIONS ROOMS AND/OR PROPERTY MANAGEMENT OFFICE) A. DATASHEET FOR ULTRAFLOW THERMAL METER (FLOW COMPONENT) B. DATASHEET FOR UNICOODER IN-SUITE WATER METER	

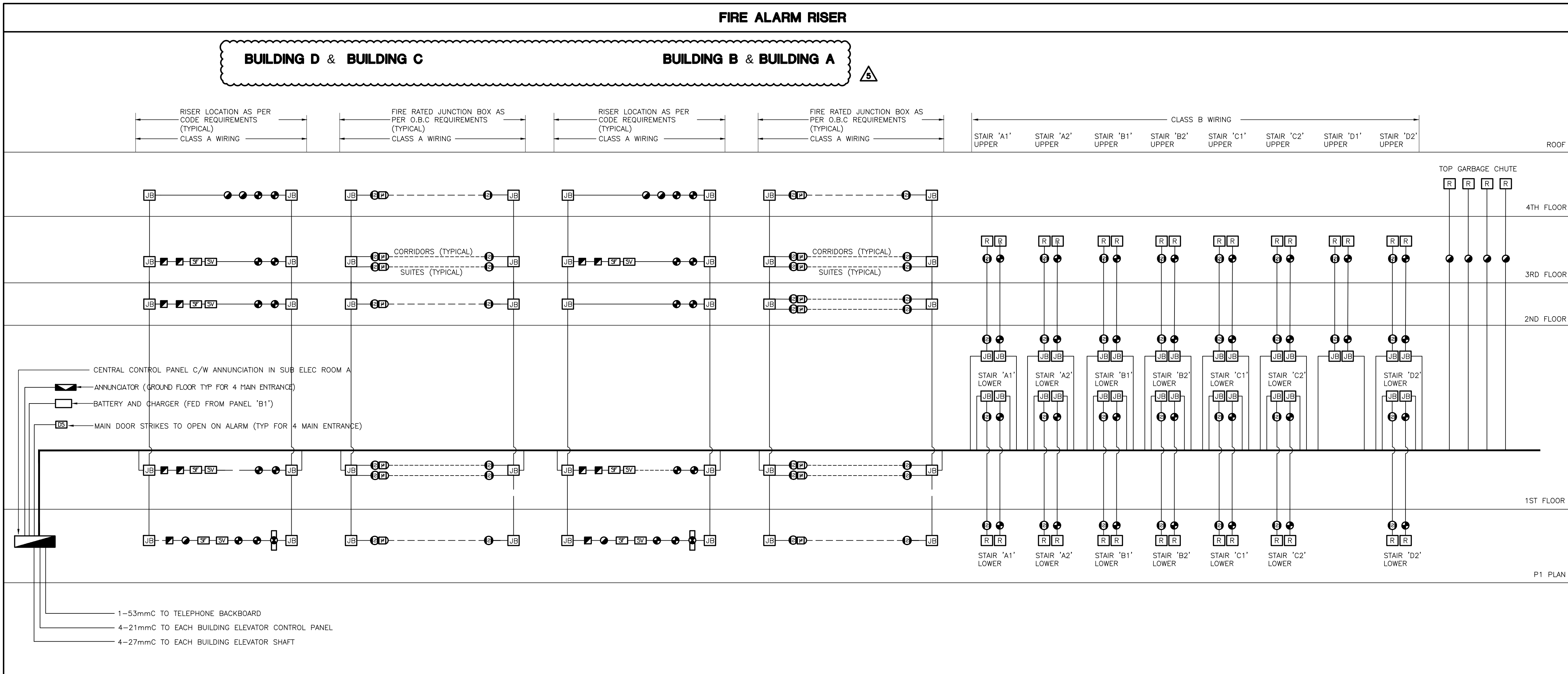
05	SP	ISSUED FOR ADD E-4 FEB. 08, 2020
04	SP	ISSUED FOR ADD E-3 JAN. 10, 2020
03	SP	ISSUED FOR PERMIT SEP. 28, 2020
02	SP	ISSUED FOR ADD E-2 JUN. 15, 2020
01	SP	ISSUED FOR TENDER AUG. 02, 2019
NO.	BY	DESCRIPTION DATE

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TITLE RISERS ELECTRICAL		
PROJECT BRAMPTON STACKED FORESTSIDE ESTATES ATTMAR + PALLESCI DRIVE BRAMPTON, ONTARIO		
DRAWN SP	CHECKED MG	SCALE NTS
DATE MAY, 2019	PROJECT 18-017	DRAWING E-10 OF 16

FIRE ALARM SCHEDULE	
ALARM ZONES	
CCT #	DESCRIPTION
1	PARKING GARAGE - P1
2	PARKING GARAGE - P1
3	ELEVATOR LOBBY BUILDING A - P1
4	ELEVATOR LOBBY BUILDING B - P1
5	ELEVATOR LOBBY BUILDING C - P1
6	ELEVATOR LOBBY BUILDING D - P1
7	MAIN ELECTRICAL ROOM - P1 LEVEL
8	SUB-ELECTRICAL ROOM A - P1 LEVEL
9	SUB-ELECTRICAL ROOM B - P1 LEVEL
10	SUB-ELECTRICAL ROOM C - P1 LEVEL
11	SUB-ELECTRICAL ROOM D - P1 LEVEL
12	COMMUNICATION ROOM - P1 LEVEL
13	MECHANICAL ROOM - P1 LEVEL
14	SPARE
15	GENERATOR ROOM - P1 LEVEL
16	GARBAGE ROOM - P1 LEVEL
17	GARBAGE ROOM - P1 LEVEL
18	GARBAGE ROOM - P1 LEVEL
19	1ST FLOOR TO 4TH FLOOR (BUILDING D)
20-23	1ST FLOOR TO 4TH FLOOR (BUILDING D)
24	ELEVATOR SHAFT (BUILDING D)
25-28	1ST FLOOR TO 4TH FLOOR (BUILDING C)
29	SPARE
30	ELEVATOR SHAFT (BUILDING C)
31-34	1ST FLOOR TO 4TH FLOOR (BUILDING B)
35	ELEVATOR SHAFT (BUILDING B)
36-39	1ST FLOOR TO 4TH FLOOR (BUILDING A)
40	ELEVATOR SHAFT (BUILDING A)
41	MAIN DOOR STRIKES TO OPEN ON ALARM (TYP FOR 4 MAIN ENTRANCE)
42	STAIR 'A1' TOP OF UPPER STAIR
43	STAIR 'A1' LOWER STAIR
44	STAIR 'A1' TOP OF LOWER STAIR
45	STAIR 'A2' UPPER STAIR
46	STAIR 'A2' TOP OF UPPER STAIR
47	STAIR 'A2' LOWER STAIR
48	STAIR 'A2' TOP OF LOWER STAIR
49	STAIR 'B1' UPPER STAIR
50	STAIR 'B1' TOP OF UPPER STAIR
51	STAIR 'B1' LOWER STAIR
52	STAIR 'B1' TOP OF LOWER STAIR
53	STAIR 'B2' UPPER STAIR
54	STAIR 'B2' TOP OF UPPER STAIR
55	STAIR 'B2' LOWER STAIR
56	STAIR 'B2' TOP OF LOWER STAIR
57	STAIR 'C1' UPPER STAIR
58	STAIR 'C1' TOP OF UPPER STAIR
59	STAIR 'C1' LOWER STAIR
60	STAIR 'C1' TOP OF LOWER STAIR
61	STAIR 'C2' UPPER STAIR
62	STAIR 'C2' TOP OF UPPER STAIR
63	STAIR 'C2' LOWER STAIR
64	STAIR 'C2' TOP OF LOWER STAIR
65	STAIR 'D1' UPPER STAIR
66	STAIR 'D1' TOP OF UPPER STAIR
67	STAIR 'D2' UPPER STAIR
68	STAIR 'D2' TOP OF UPPER STAIR
69	STAIR 'D2' LOWER STAIR
70	STAIR 'D2' TOP OF LOWER STAIR
71	FRESH AIR UNIT DUCT DETECTOR (BUILDING A)
72	FRESH AIR UNIT DUCT DETECTOR (BUILDING B)
73	FRESH AIR UNIT DUCT DETECTOR (BUILDING C)
74	FRESH AIR UNIT DUCT DETECTOR (BUILDING D)
75	MAIN SPRINKLER FLOW ALARM
76	PARKING GARAGE LEVEL-1 SPRINKLER FLOW ALARM
77	WET SPRINKLER LINE TO GARBAGE ROOM FLOW ALARM
78	WET SPRINKLER LINE TO GARBAGE ROOM FLOW ALARM
79	WET SPRINKLER LINE TO GARBAGE ROOM FLOW ALARM
80	WET SPRINKLER LINE TO GARBAGE ROOM FLOW ALARM
81	WET SPRINKLER LINE TO GARBAGE ROOM FLOW ALARM
82	SPARE
83	BUILDING A SPRINKLER SYSTEM FLOW ALARM
84	BUILDING B SPRINKLER SYSTEM FLOW ALARM
85	BUILDING C SPRINKLER SYSTEM FLOW ALARM
86	BUILDING D SPRINKLER SYSTEM FLOW ALARM
87	SPRINKLER RISER IN GARBAGE CHUTE FLOW ALARM (BUILDING A)
88	SPRINKLER RISER IN GARBAGE CHUTE FLOW ALARM (BUILDING B)
89	SPRINKLER RISER IN GARBAGE CHUTE FLOW ALARM (BUILDING C)
90	SPRINKLER RISER IN GARBAGE CHUTE FLOW ALARM (BUILDING D)
91	SPARE
92	SPARE
93	SPARE 25%



TROUBLE ZONES	
CCT #	DESCRIPTION
1	MAIN INCOMING SPRINKLER LINE LOSS OF PRESSURE - 1
2	MAIN INCOMING SPRINKLER LINE LOSS OF PRESSURE - 2
3	GEN-SET-COMMON TROUBLE
4	GENERATOR BREAKER "OFF"
5	GENERATOR RUNNING
6	LOSS OF PRESSURE OF INCOMING GAS LINE FOR GENSET
7	LOSS OF PRESSURE OF GAS LINE TO GENSET
8	FIRE LINES TRACING POWER LOSS
9	COMPRESSOR LOSS OF POWER
10	COMPRESSOR LOSS OF AIR
11-12	DRY SPRINKLER LOSS OF AIR PRESSURE IN P1 PARKING LEVEL
13	TRANSFER SWITCH #1 NOT IN 'AUTO'
14	LOW TEMP. T-STAT IN MECHANICAL ROOM - P1 LEVEL
15	HIGH CO LEVEL DETECTION IN PARKING GARAGE
16	PIPE TRACING LOSS OF POWER **
17	SNOW MELTING LOSS OF POWER **
	SPARE 25%
	** NUMBER OF ZONES TO SUIT CODE REQUIREMENT

FIRE ALARM RISER NOTES	
1.	PROVIDE WIRING FOR SPRINKLER FLOW SWITCHES, PRESSURE SWITCHES AND SUPERVISED VALVES (NOT SHOWN ON ELECTRICAL DRAWINGS; EXACT LOCATIONS SHALL BE VERIFIED ON SITE) AND CONNECT TO CORRESPONDING ZONE OF FIRE ALARM SYSTEM
2.	PROVIDE END OF LINE RESISTOR FOR EACH ZONE.
3.	SEE FLOOR PLANS FOR EXACT NUMBER AND LOCATION OF FIRE ALARM DEVICES.
4.	FIRE ALARM PULL STATIONS SHALL BE RED IN COLOR; MOUNTING HEIGHT: 1200MM AFF.
5.	SEE ALSO APPLICABLE NOTES DETAILS AND SEQUENCE OF OPERATION ON 'DETAILS' DRAWINGS.
6.	ALL F/A SIGNAL WIRING SHALL BE WIRED TO CONFORM TO CLASS 'A' STANDARDS.
7.	FIRE ALARM SPEAKER CIRCUITS TO BE CLASS A.
8.	PROVIDE SEPARATE SECOND CLASS A SIGNAL CIRCUIT PER FLOOR SO THAT ONE CIRCUIT IS FOR THE CORRIDORS AND ONE CIRCUIT IS FOR THE SUITES.
9.	ALL FIRE ALARM RECALL FROM MANUAL DEVICES AND AUTOMATICALLY INITIATED DEVICES TO BE AS PER CODE AND TSSA REQUIREMENTS.
10.	ADD CONTROL PANEL EXPANSION BOX AS PER MANUFACTURERS RECOMMENDATIONS AND SYSTEM REQUIREMENTS WITHIN BUILDING CAGF TO HAVE A COMPLETE AND FULLY FUNCTIONAL INTERGRATED FIRE ALARM SYSTEM.
11.	ALLOW FOR ALL COSTS ASSOCIATED WITH VERIFICATION AS REQUIRED.
12.	ELECTRICAL SUPERVISION
	ELECTRICAL SUPERVISION OF THE AUTOMATIC SPRINKLER SYSTEM IS REQUIRED TO INDICATE A SUPERVISORY SIGNAL ON THE FIRE ALARM ANNUNCIATOR/CONTROL PANEL FOR THE FOLLOWING:
	• MOVEMENT OF A VALVE HANDLE THAT CONTROLS THE SUPPLY OF WATER TO SPRINKLERS, AND
	• LOSS OF EXCESS WATER PRESSURE REQUIRED TO PREVENT FALSE ALARMS IN A WET SYSTEM,
	• LOSS OF AIR PRESSURE IN A DRY FIRE PUMP,
	• LOSS OF POWER TO AN AUTOMATICALLY STARTING FIRE PUMP,
	• A TEMPERATURE APPROACHING THE FREEZING POINT IN A DRY PIPE VALVE ENCLOSURE,
	• LOSS OF POWER TO A HEAT TRACING CABLE SERVING:
	- A STANDPIPE RISER
	- A SPRINKLER LINE, AND
	- AN EXIT OR MEANS OF EGRESS TO KEEP IT FREE FROM ICE AND SNOW

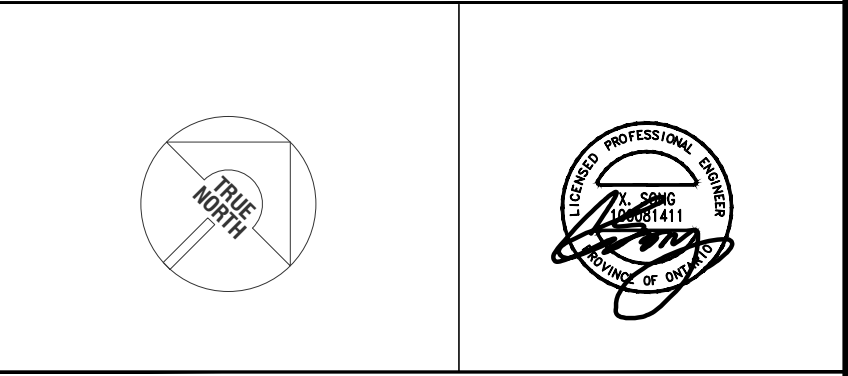
FIRE ALARM SCHEDULE NOTES	
1.	PROVIDE ON-OFF-AUTO SELECTOR SWITCHES IN ANNUNCIATOR PANEL FOR REMOTE CONTROL OF MUA'S, GARAGE EXHAUST FANS, PRESSURIZATION FANS, AND CONTROL FOR ALL ELEVATOR AND STAIR PRESSURIZATION AS WELL AS THE AMENITY AREA FLOW SMOKE EXHAUST SYSTEM.
2.	PROVIDE FAN SHUT-DOWN RELAYS TO DE-ENERGIZE ALL SUPPLY AIR FANS (EXCEPT MUA'S TO PUBLIC CORRIDOR) ON FIRE ALARM. MUA'S TO PROVIDE MAKE UP AIR TO PUBLIC CORRIDOR TO REMAIN OPERATIONAL AFTER THE ACTIVATION OF THE FIRE ALARM.
3.	ELEVATOR RECALL ADJACENT CENTRAL FACILITY.
4.	ELEVATOR INTERCOM ADJACENT CENTRAL FACILITY.
5.	REFER TO MECHANICAL DRAWINGS FOR LOCATION OF SUPERVISED VALVES.
6.	SYSTEM TO CONFORM WITH O.B.C. SECTION 3.2.4.16 AND TO LOCAL AUTHORITY HAVING JURISDICTION.
7.	ALL AUDIBLE SIGNAL WIRING TO CONFORM TO CLASS 'A' SPECIFICATIONS.
8.	IN SUITE WHERE APPLICABLE THE SPEAKERS SHALL BE CAPABLE TO BE SILENCED AS REQUIRED BY CODES OR THE EQUIPMENT SHALL BE IN ACCORDANCE WITH OBC 3.2.4.19(15).

ELECTRICALLY SUPERVISED VALVE SCHEDULE					
SUPERVISED VALVE NO.	SYSTEM	LOCATION	SUPERVISED VALVE NO.	SYSTEM	LOCATION
<SV.#1>	INLET DOUBLE CHECK VALVE ASSEMBLY ISOLATION	METER ROOM	<SV.#8>	BUILDING '3' (BUILDING B) GARBAGE CHUTE SYSTEM ISOLATION	PARKING GARAGE
<SV.#2>	OUTLET DOUBLE CHECK VALVE ASSEMBLY ISOLATION	METER ROOM	<SV.#17>	BUILDING '17' (BUILDING B) SPRINKLER SYSTEM ISOLATION	BUILDING '3' (BUILDING B) 1ST FLOOR
<SV.#3>	WET SYSTEM ISOLATION	METER ROOM	<SV.#8>	ISOLATION FSP BUILDING 2 (BUILDING C)	PARKING GARAGE
<SV.#4>	P-1 LEVEL WEST U/O GARAGE DRY SPRINKLERS	METER ROOM	<SV.#15>	ISOLATION FSP BUILDING 2 (BUILDING C)	PARKING GARAGE
<SV.#5>	P-1 LEVEL WEST U/O GARAGE DRY SPRINKLERS	METER ROOM	<SV.#20>	ISOLATION FSP BUILDING 2 (BUILDING C)	PARKING GARAGE
<SV.#6>	ISOLATION FSP BUILDING 4 (BUILDING A)	PARKING GARAGE	<SV.#21>	ISOLATION FSP PARKING GARAGE	PARKING GARAGE
<SV.#7>	ISOLATION FSP BUILDING 4 (BUILDING A)	PARKING GARAGE	<SV.#22>	BUILDING '2' (BUILDING C) GARBAGE CHUTE SYSTEM ISOLATION	PARKING GARAGE
<SV.#8>	ISOLATION FSP BUILDING 4 (BUILDING A)	PARKING GARAGE	<SV.#23>	BUILDING '2' (BUILDING C) SPRINKLER SYSTEM ISOLATION	BUILDING '2' (BUILDING C) 1ST FLOOR
<SV.#9>	ISOLATION FSP PARKING GARAGE	PARKING GARAGE	<SV.#24>	ISOLATION FSP BUILDING 1 (BUILDING D)	PARKING GARAGE
<SV.#10>	BUILDING '4' (BUILDING A) GARBAGE CHUTE SYSTEM ISOLATION	PARKING GARAGE	<SV.#25>	ISOLATION FSP BUILDING 1 (BUILDING D)	PARKING GARAGE
<SV.#11>	BUILDING '4' (BUILDING A) SPRINKLER SYSTEM ISOLATION	BUILDING '4' 1ST FLOOR	<SV.#26>	ISOLATION FSP BUILDING 1 (BUILDING D)	PARKING GARAGE
<SV.#12>	ISOLATION FSP BUILDING 3 (BUILDING B)	PARKING GARAGE	<SV.#27>	ISOLATION FSP PARKING GARAGE	PARKING GARAGE
<SV.#13>	ISOLATION FSP BUILDING 3 (BUILDING B)	PARKING GARAGE	<SV.#28>	BUILDING '1' (BUILDING D) GARBAGE CHUTE SYSTEM ISOLATION	PARKING GARAGE
<SV.#14>	ISOLATION FSP BUILDING 3 (BUILDING B)	PARKING GARAGE	<SV.#29>	BUILDING '1' (BUILDING D) SPRINKLER SYSTEM ISOLATION	BUILDING '1' (BUILDING D) 1ST FLOOR
<SV.#15>	ISOLATION FSP PARKING GARAGE	PARKING GARAGE		SPARE	
	SPARE			SPARE 25%	

1. PROVIDE ALLOWANCE FOR ADDITIONAL SUPERVISED VALVES UPON SUBMISSION OF SPRINKLER SHOP DRAWINGS

05	SP	ISSUED FOR ADD E-4 FEB. 08, 2021
04	SP	ISSUED FOR ADD E-3 JAN. 19, 2021
03	SP	ISSUED FOR PERMIT SEP. 28, 2020
02	SP	ISSUED FOR ADD E-2 JUN. 15, 2020
01	SP	ISSUED FOR TENDER AUG. 02, 2019
NO.	BY	DESCRIPTION DATE

REVISIONS	
This drawing is an instrument of service, is provided by and is the property of United Engineering Inc. The contractor must verify and accept responsibility for all dimensions and conditions on site and must notify United Engineering Inc. of any discrepancy before proceeding. United Engineering Inc. is not responsible for the accuracy of Architectural, structural, interior design, etc., on this drawing. Refer to the appropriate trade drawings before proceeding with any work. Installation must conform to all applicable codes and requirements of the authorities having jurisdiction. This drawing is not to be scaled, all symbols or graphic representations only.	



UNITED ENGINEERING INC. Mechanical Electrical Consulting Engineers 3645 Keele Street, Suite 105, Toronto, Ontario, M3J 1M6 Tel: (416) 398 1995, Fax: (416) 398 1933	
TITLE	FIRE ALARM SYSTEM ELECTRICAL
PROJECT	BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE BRAMPTON, ONTARIO	
DRAWN SP	CHECKED MG
DATE MAY, 2019	SCALE NTS
	DRAWING E-11
	OF 16

PANEL IDENT: G	SERVICE: 600V/347V, 3ø, 4W MAIN CTT, BRK: ~ MANS: 225 AMPS SURFACE MOUNTING:					NOTES:
	LOCATION:					
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LIGHTING – GARAGE (P1)	15A	1	2			LIGHTING – GARAGE (P1)
LIGHTING – GARAGE (P1)	15A	3	4	15A		LIGHTING – GARAGE (P1)
LIGHTING – GARAGE (P1)	15A	5	6	15A		LIGHTING – GARAGE (P1)
LIGHTING – GARAGE (P1)	15A	7	8	15A		LIGHTING – GARAGE (P1)
SPARE	15A	9	10	15A		SPARE
	15A	11	12	15A		
	15A	13	14	15A		
	15A	15	16	15A		
	15A	17	18	15A		
	15A	19	20	15A		
	15A	21	22	15A		
	15A	23	24	15A		
	15A	25	26	15A		
SPACE	27	28				SPACE
	29	30				
	31	32				
	33	34				
	35	36				
	37	38				
	39	40				
	41	42				

PANEL IDENTIF: EG	SERVICE: 600/347V, 3ø, 4W MAIN CTT, BRK: 225 AMPS SURFACE MANS: MOUNTING:			NOTES: *** LOCK ON BREAKER LOCATION:		
	LOAD DESCRIPTION			LOAD DESCRIPTION		
	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
	LIGHTING – GARAGE (P1)	15A	1	1	15A	EXIT SIGNS *** – GARAGE (P1)
	LIGHTING – GARAGE (P1)	15A	3	4	15A	EXIT SIGNS *** – GARAGE (P1)
	LIGHTING – GARAGE (P1)	15A	5	6	15A	LIGHTING – GARAGE (P1)
	SPARE	15A	7	8	15A	LIGHTING – GARAGE (P1)
		15A	9	10	15A	LIGHTING – GARAGE (P1)
		15A	11	12	15A	SPARE
		15A	13	14	15A	
		15A	15	16	15A	
		15A	17	18	15A	
		15A	19	20	15A	
		15A	21	22	15A	
		15A	23	24	15A	
	SPACE	25	26			SPACE
		27	28			
		29	30			
		31	32			
		33	34			
		35	36			
		37	38			
		39	40			
		41	42			

PANEL IDENTIF:	SUITE	SERVICE:	120/208V, 1ø, 3ø	NOTES:				
		MAIN CTT, BRK:	125 AMPS SURFACE					
		MOUNTING:		LOCATION:	STACKED HOUSE			
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION	
LTD & SHOCK/CD ALARM		3000	15A	1	2	20A	1000	KITCHEN GFI – SPLIT RECEPTACLE
LIGHTING		3000	15A	3	4	20A	1000	KITCHEN T-SLOT RECEPTACLE
LIGHTING		3000	15A	5	6	20A	1000	KITCHEN T-SLOT RECEPTACLE
LIGHTING		3000	15A	7	8	15A	1000	DISHWASHER
ARC FAULT RECEPTACLES		3000	15A	9	10	50A		
ARC FAULT RECEPTACLES		3000	15A	11	12	2P		
ARC FAULT RECEPTACLES		3000	15A	13	14	15A	1000	FUDGE
GFI RECEPTACLE		3000	15A	15	16	30A		
GFI RECEPTACLE		3000	15A	17	18	2P		
WASH/RECYCLE CUPBKE		3000	15A	19	20	15A	1000	WASHER
UNIT DRYER FAN		500	15A	21	22	15A	1000	DISHWASHER
EXTERIOR RECEPTACLE ON AS REQ'D		500	15A	23	24	15A	1000	MICROWAVE
DRY		15A	25	26	15A	1000	CENTRAL VACUUM RECEPTACLE	
HV			20A	27	28	30A		
CONDENSING COND BOLT		15A	29	30	2P			
SPLIT RECEPTACLE		15A	31	32	15A	1000	WASHER	
EBB		15A	33	34	15A	1000	DISHWASHER	
SPARE		15A	35	36	15A	1000	MICROWAVE	
SPARE		15A	37	38	15A	1000	CENTRAL VACUUM RECEPTACLE	
SPARE		15A	39	40	15A	1000	WASHER	
SPARE		15A	41	42	15A	1000	DISHWASHER	

SUITE PANEL NOTES:
 * COPY ELEC REQUIREMENTS WITH UNIT SHOP DNGS (FOR EACH DIFFERENT SUITE/UNIT)
 ** WHERE APPLICABLE AND REQUIRED REFER TO UNIT'S LAYOUTS, ELSE PROVIDE SPARES
 - PANELS C/V "PLUG-N" OR BOLT-ON BREAKERS
 - PANELS SHALL BE SUITABLE FOR THE USE OF DOUBLE BREAKERS WHICH SHALL BE USED SHOULD THE ACTUAL PROPORTION OF REQUIRED CIRCUITS/EMPTY SPACE EXCEED CODE REQUIREMENTS
 *** EACH BRANCH CIRCUIT SUPPLYING 100V RECEPTACLES, RATED 20A OR LESS, SHALL BE PROTECTED BY A GROUND-FULT-FAULT CIRCUIT INTERRUPTER EXCEPT FOR BRANCH CIRCUITS SUPPLYING:
 - RECEPTACLES ON KITCHEN COUNTER FOR USE BY PERSON WITH DISABILITIES
 - OUTLETS/WASHERS (PROVIDED THAT NO OTHER RECEPTACLES ARE CONNECTED TO THESE CIRCUITS)
 - FRIDGE, KITCHEN COUNTER, KITCHEN ISLAND AND PENINSULA

PANEL IDENT: B1	SERVICE: 208Y/120V, 3ø, 4W	NOTES: 60 CIRCUITS				
	MAIN: CTT, BRK: 400 AMPS SURFACE MOUNTING:	LOCATION:				
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LIGHTING – LOCKERS (P1)	15A	1	2	15A	1	RECEPTACLES – STAR A (200-300)
LIGHTING – LOCKERS (P1)	15A	3	4	15A	1	RECEPTACLES – STAR B (200-300)
REC – STORAGE (P1)	15A	5	6	15A	1	RECEPTACLES – CORRIDOR (200-300)
REC – SUB ELEC RM D (P1)	15A	7	8	15A	1	RECEPTACLES – CORRIDOR (200-300)
LIGHTING – GARAGE, RM. (P1)	15A	9	10	15A	1	RECEPTACLES – ROOF LEVEL
REC – LOCKER (P1)	20A	11	12	15A	1	RECEPTACLES – ROOF LEVEL
REC – STAR A & B (P1)	15A	13	14	15A	1	LIGHTING-JANITOR ROOM
REC – GARAGE RM. (P1)	15A	15	16	100A		SPARE
REC – LOCKER (P1)	15A	17	18	2P		
REC – LOCKER & LOBBY (P1)	15A	19	20	30A		4.8 KW ELECTRIC FORCE HEATER "H-3"
REC – SERVICE ROOM (P1)	15A	21	22	2P		
TRISORTOR CONTROL PANEL	20A	23	24	30A		4.8 KW ELECTRIC FORCE HEATER "H-3"
BATTERY UNIT	15A	25	26	2P		SPARE
H-1 12KW ELECTRIC HEATER	80A	27	28	30A		SPARE
	2P	29	30			
	31	32	33	15A		GENERATOR RM MOTORIZED DAMPER
	34	35	36	15A		SMART BOX FOR DELIVERIES
1.0KW BASEBOARD HEATER	15A	37	38	15A		RECEPTACLES – CORRIDOR (200-300)
1.0KW BASEBOARD HEATER	15A	39	40	15A		RECEPTACLES – CORRIDOR (200-300)
REC – TELECOM	15A	41	42	15A		LIGHTING – LOCKERS (3RD)
REC – TELECOM	15A	43	44	15A		SPARE

PANEL IDENTIF: B2		SERVICE: MAIN CTT: BRK: 208Y/120V, 3ø, 4W MANS: 400 AMPS SURFACE MOUNTING:		NOTES: 60 CIRCUITS LOCATION:			
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LIGHTING – MECH. RM. (P1)		15A	1	2	15A	1	RECEPTACLES – STAR H (P1-3RD)
LIGHTING – GARAGE RM. (P1)		15A	3	4	15A	1	RECEPTACLES – STAR G (P1-3RD)
REC – SUB ELEC RM (P1)		15A	5	6	15A	1	RECEPTACLES – CORRIDOR (200-300)
REC – LOBBY (P1)		15A	7	8	15A	1	RECEPTACLES – CORRIDOR (200-300)
REC – GARAGE RM. (P1)		15A	9	10	15A	1	RECEPTACLES – ROOF LEVEL
REC – MECH ROOM (P1)		15A	13	14	15A	1	RECEPTACLES – ROOF LEVEL
REC – TELECOM RM (P1)		15A	15	16	15A	1	SECURITY PANEL
REC – ELEVATOR CONTROL RM (P1)		15A	17	18	100A		SPARE
TRISORTOR CONTROL PANEL		20A	19	20	2P		
H-1 12KW ELECTRIC HEATER		80A	21	22	30A		4.8 KW ELECTRIC FORCE HEATER "H-3"
		2P	23	24	2P		
H-1 12KW ELECTRIC HEATER		80A	25	26	30A		4.8 KW ELECTRIC FORCE HEATER "H-3"
		2P	27	28	2P		
1.0KW BASEBOARD HEATER		15A	31	32	15A		SPARE
1.0KW BASEBOARD HEATER		15A	33	34	15A		SMART BOX FOR DELIVERIES
REC – TELECOM		15A	35	36	15A		RECEPTACLES – CORRIDOR (200-300)
CO CONTROL PANEL		15A	37	38	15A		SPARE
SECURITY CONTROL PANEL		15A	39	40	15A		SPARE
LIGHTING – LOCKER (2ND-3RD)		15A	41	42	15A		SPARE

PANEL IDENTIF: B3	SERVICE: MAIN CTT, BRK: 208Y/120V, 3ø, 4W MANS: 400 AMPS SURFACE		NOTES: 60 CIRCUITS LOCATION:		
	MOUNTING:				
	WATTS	BRK	CIRCUITS	BRK WATTS	
LOAD DESCRIPTION					
LIGHTING – LOCKER RM (P1)	15A	1	1	15A	RECEPTACLES – STAR C (P1-3RD)
LIGHTING – GARAGE RM. (P1)	15A	3	4	15A	RECEPTACLES – STAR D (P1-3RD)
LIGHTING – JANITOR RM (P1)	15A	5	6	15A	RECEPTACLES – CORRIDOR (200-300)
REC – GARAGE RM. (P1)	15A	7	8	15A	RECEPTACLES – CORRIDOR (200-300)
REC – LOBBY (P1)	15A	9	10	15A	RECEPTACLES – ROOF LEVEL
REC – LOCKER ROOM (P1)	15A	11	12	15A	RECEPTACLES – ROOF LEVEL
REC – ELEC ROOM (P1)	15A	13	14	100A	SPARE
REC – ELEVATOR CONTROL RM (P1)	15A	15	16	2P	
TRISORTOR CONTROL PANEL	20A	17	18	30A	
H-1 120KW ELECTRIC HEATER	80A	19	20	2P	4.8 KW ELECTRIC FORCE HEATER "H-3"
	2P	21	22	30A	4.8 KW ELECTRIC FORCE HEATER "H-3"
	23	24	25	2P	
	26	27	28	2P	SPARE
1.0KW BASEBOARD HEATER	15A	29	30	15A	
1.0KW BASEBOARD HEATER	15A	31	32	15A	SMART BOX FOR DELIVERIES
REC – TELECOM	15A	33	34	15A	RECEPTACLES – CORRIDOR (200-300)
REC – TELECOM	15A	35	36	15A	SPARE
SPARE	15A	37	38	15A	SPARE
	15A	39	40	15A	
	15A	41	42	15A	

PANEL IDENT: B4		SERVICE: 208Y/120V, 3ø, 4W MAIN CTT, BRK: 400 AMPS SURFACE MANS:				NOTES: 60 CIRCUITS LOCATION:	
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LIGHTING – GARAGE RM. (P1)		15A	1	2	15A	1	RECEPTACLES – STAR E (P1-3RD)
REC – SUB ELEC RM. (P1)		15A	3	4	15A	1	RECEPTACLES – STAR F (P1-3RD)
LIGHTING – LOCKER RM. (P1)		15A	5	6	15A	1	RECEPTACLES – CORRIDOR (200-3RD)
REC – LOBBY (P1)		15A	7	8	15A	1	RECEPTACLES – CORRIDOR (200-3RD)
LIGHTING – PUBLIC RM. (2ND)		15A	9	10	15A	1	RECEPTACLES – ROOF LEVEL
REC – ELEVATOR CONTROL RM (P1)		15A	11	12	15A	1	RECEPTACLES – ROOF LEVEL
TRISORTOR CONTROL PANEL		20A	13	14	100A		SPARE
H-1 12KW ELECTRIC HEATER		80A	15	16	2P		
		2P	17	18	30A		4.8 KW ELECTRIC FORCE HEATER "H-3"
H-1 12KW ELECTRIC HEATER		80A	19	20	2P		
		2P	21	22	30A		4.8 KW ELECTRIC FORCE HEATER "H-3"
1.0KW BASEBOARD HEATER		15A	23	24	2P		
1.0KW BASEBOARD HEATER		15A	25	26	30A		SPARE
REC – TELECOM		15A	27	28	2P		
REC – TELECOM		15A	29	30	15A		SMART BOX FOR DELIVERIES
SPARE		15A	31	32	15A		RECEPTACLES – CORRIDOR (200-3RD)
SPARE		15A	33	34	15A		RECEPTACLES – CORRIDOR (200-3RD)
		15A	35	36	15A		LIGHTING – LOCKER (3RD)
		15A	37	38	15A		SPARE
		15A	39	40	15A		
		15A	41	42	15A		

PANEL IDENT:	EB1	SERVICE:	208Y/120V, 3ø, 4W				NOTES:
		MAIN CTT, BRK:	225 AMPS SURFACE			*** LOCK ON BREAKER	
		MOUNTING:			LOCATION:		
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LIGHTING – LOBBY ELEVATORS		15A	1	1	15A	1	EXIT SIGNS – (P1) ***
LIGHTING – LOCKER RM		15A	3	4	15A	1	EXIT SIGNS – (GRD-3RD) ***
LIGHTING – LOCKER RM		15A	5	6	15A	1	LIGHTING – STAR A (P1-3RD)
LOT. – GARAGE RM (P1)		15A	7	8	15A	1	LIGHTING – STAR B (P1-3RD)
LIGHTING – SUB ELEC RM D		15A	9	10	15A	1	LIGHTING – GRD FLOOR LOBBY
SPARE		15A	11	12	15A	1	LIGHTING – 3RD FLOOR LOCKER
LIGHTING – ELEVATOR PIT		15A	13	14	15A	1	LIGHTING – 3RD FLOOR CORRIDOR
RECEPTACLES – ELEVATOR PIT		15A	15	16	15A	1	LIGHTING – 3RD FLOOR CORRIDOR
GENERATOR BATTERY CHARGE		15A	17	18	15A	1	LIGHTING – TOP OF ELEVATOR SHAFT
GENERATOR BLOCK HEATER		20A	19	20	15A	1	REC – TOP OF ELEVATOR SHAFT
		2P	21	22	15A	1	AUTO DOOR OPENERS
AUTO DOOR OPENERS		15A	23	24	15A	1	AUTO DOOR OPENERS
AUTO DOOR OPENERS		15A	25	26	15A	1	LIGHTING – GRD FLOOR CORRIDOR
ENTERPHONE		15A	27	28	15A	1	LIGHTING – GRD FLOOR CORRIDOR
LIGHTING – GARAGE CHUTE		15A	29	30	15A	1	AUTO DOOR OPENERS
SPARE		15A	31	32	15A	1	SPARE
		15A	33	34	15A	1	
		15A	35	36	15A	1	
		15A	37	38	15A	1	
		15A	39	40	15A	1	
		15A	41	42	15A	1	

PANEL IDENTIF:	E82	SERVICE: 208Y/120V, 3ø, 4W MAIN CTT, BRK: 225 AMPS SURFACE MOUNTING:				NOTES: *** LOCK ON BREAKER LOCATION:	
		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LOAD DESCRIPTION							
LIGHTING – LOBBY ELEVATORS	15A	1	1	2	15A	1	EXIT SIGNS – (P1) ***
LIGHTING – ELEC RM	15A	3	4	15A	1	1	EXIT SIGNS – (GRD-3RD) ***
LIGHTING – MECH RM	15A	5	6	15A	1	1	LIGHTING – STAR G (P1-3RD)
LOT – GARAGE RM (P1)	15A	7	8	15A	1	1	LIGHTING – STAR H (P1-3RD)
LOT – SERVICE ROOM (P1)	15A	9	10	15A	1	1	LIGHTING – GRD FLOOR LOBBY
LIGHTING – ELEVATOR PIT	15A	11	12	15A	1	1	LIGHTING – CORRIDOR (3RD)
RECEPTACLES – ELEVATOR PIT	15A	13	14	15A	1	1	LIGHTING – CORRIDOR (GRD)
AUTO DOOR OPENERS	15A	15	16	15A	1	1	LIGHTING – CORRIDOR (GRD)
AUTO DOOR OPENERS	15A	17	18	15A	1	1	LIGHTING – TOP OF ELEVATOR SHAFT
AUTO DOOR OPENERS	15A	19	20	15A	1	1	REC – TOP OF ELEVATOR SHAFT
ENTERPHONE	15A	21	22	15A	1	1	LIGHTING – 2ND FLOOR CORRIDOR
LIGHTING – GARAGE CHUTE	15A	23	24	15A	1	1	LIGHTING – 2ND FLOOR CORRIDOR
LIGHTING – LOCKER (2ND-3RD)	15A	25	26	15A	1	1	LIGHTING – CORRIDOR (3RD)
SPARE	15A	27	28	15A	1	1	SPARE
	15A	29	30	15A	1	1	
	15A	31	32	15A	1	1	
	15A	33	34	15A	1	1	
	15A	35	36				SPACE
	15A	37	38				
	15A	39	40				
	15A	41	42				