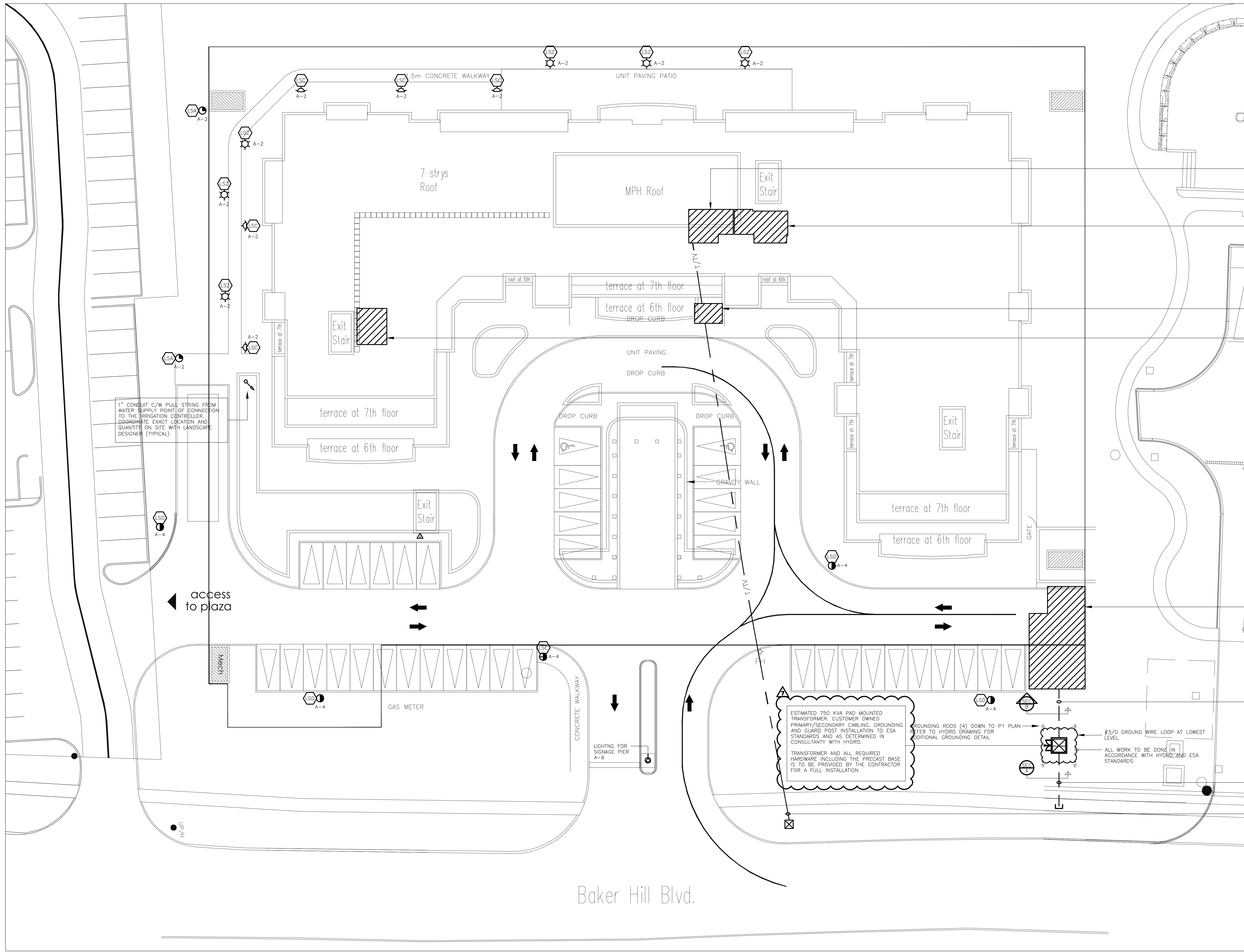




APPROXIMATELY LOCATION OF COMMUNICATION ROOM LOCATED ON P1 LEVEL

APPROXIMATELY LOCATION OF SUB-ELECTRICAL 1 ROOM LOCATED ON P1 LEVEL

APPROXIMATELY LOCATION OF CACT ROOM LOCATED ON GROUND FLOOR

APPROXIMATELY LOCATION OF SUB-ELECTRICAL 2 ROOM LOCATED ON P1 LEVEL

APPROXIMATELY LOCATION OF MAIN ELECTRICAL ROOM LOCATED ON P1 LEVEL

4 X 100MM SECONDARY PVC DUCTS BANK TO HYDRO CONCRETE ENCASED (SEE SECONDARY DUCT BANK DETAIL SEC/9, THIS DRAWING)

6 X 100MM PRIMARY PVC DUCTS BANK TO HYDRO CONCRETE ENCASED. CONFIRM REQUIREMENTS AND CONNECTION POINT WITH HYDRO

PRIMARY DUCT BANK TO BE ON PRIVATE PROPERTY UNITS. THEY MEET HYDRO'S EXISTING ROAD CROSSING.

CONNECTION POINT TO BE COORDINATED WITH SUPPLIERS

3/4" MAIN INCOMING COMMUNICATIONS (TEL/TV) FEEDERS:

1-4" BELL
1-4" ROGERS
1-4" SPARE

STUBBED THRU FOUNDATION WALL. COORDINATE ON SITE WITH UTILITY FOR EXACT LOCATION. SEAL AND MAKE SAFE CONNECTION POINT TO BE COORDINATED WITH UTILITY

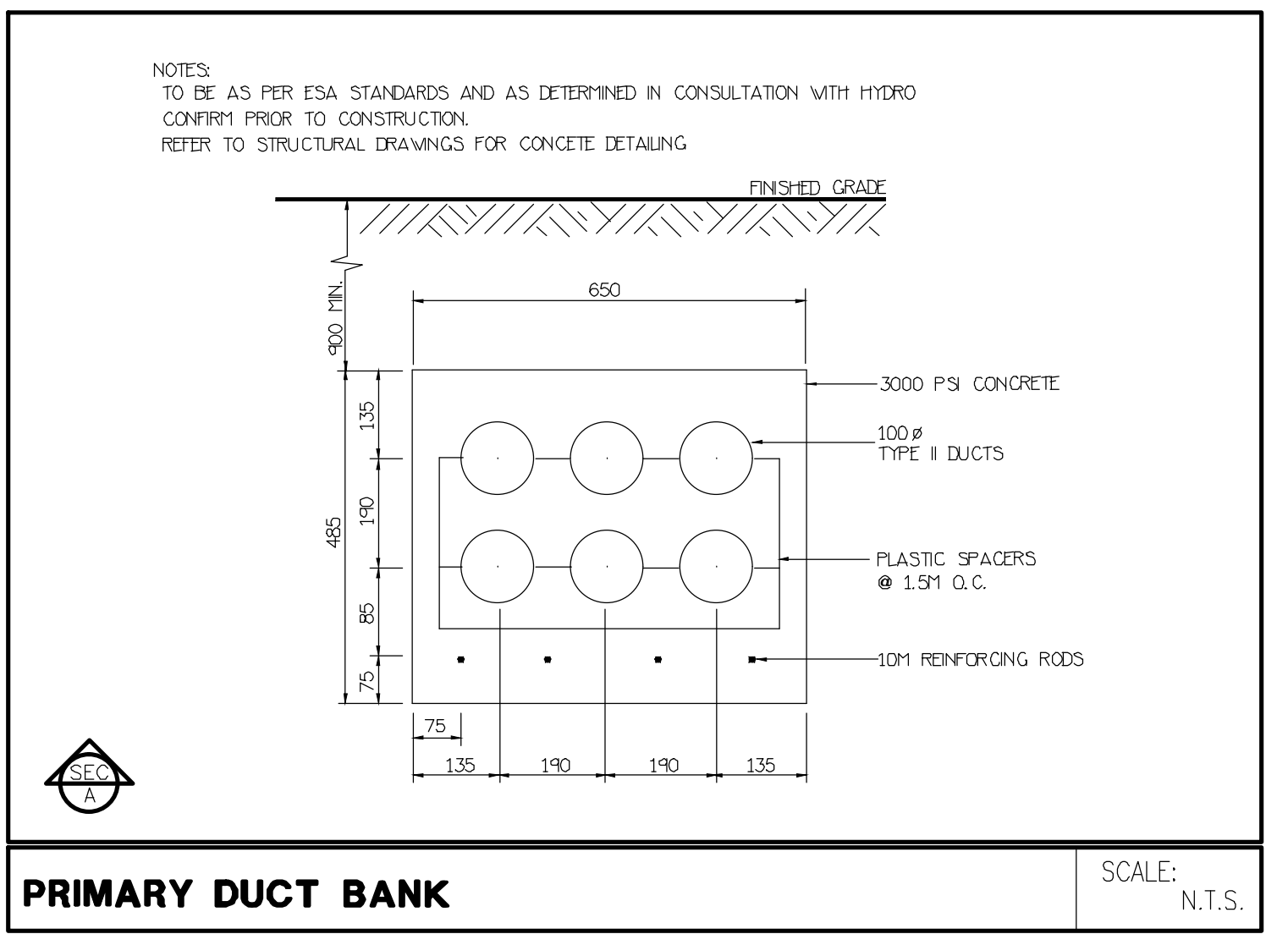
GENERAL NOTES:

- ELECTRICAL DRAWINGS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, FIRE PROTECTION, INTERIOR DESIGN, LANDSCAPE AND STRUCTURAL DRAWINGS. CONTRACTOR TO ALLOW FOR ALL COORDINATION TO BE COMPLETED ON SITE.
- ALL SECURITY CONDUIT TO BE PROVIDED IN COORDINATION WITH SECURITY SUPPLIER
- ALL WORK TO BE IN ACCORDANCE WITH HYDRO/ESA STANDARDS AND AS DIRECTED BY ON SITE INSPECTORS.
- ALL PENETRATES THRU CORE SLAB TO BE SMOKE SEALED IN ACCORDANCE WITH CODE AND MANUFACTURERS RECOMMENDATIONS. ALL WIRING IN SUITES TO BE BX WHERE POSSIBLE.
- FINAL DRUM DRIPS LOCATION MUST BE CO-ORDINATED WITH THE MECHANICAL CONTRACTOR ON SITE. ALL DRUM DRIPS TO BE ELECTRICALLY TRACED AND INSULATED. FED FROM PANEL "1P".
- FINAL EXPOSED P-TRAPS TO BE CO-ORDINATED WITH THE MECHANICAL CONTRACTOR ON SITE. ALL EXPOSED P-TRAPS TO BE ELECTRICALLY TRACED AND INSULATED. FED FROM PANEL "1P".
- ALL HEAT TRACING FOR WET SPRINKLERS AND STANDPIPE IS REQUIRED TO HAVE A SUPERVISORY SIGNAL ON FIRE ALARM SYSTEM CONTROL PANEL WHEN THERE IS A LOSS OF POWER.
- 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 MONITOR SYSTEM TYPICAL INSTALLATION DETAIL FOR MORE INFORMATION).
- PROVIDE LIGHT SWITCH(ES) WHICH IS (ARE) INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN SERVING MECHANICAL STORAGE AND/OR LOCKER ROOMS. OTHERWISE PROVIDE 24HRS OPERATION FOR THE FANS. COORDINATE WITH DIV. 15 PRIOR TO ROUGH-IN.
- FOR SITE LIGHTING, OPERATIONAL PRACTICES TO BE MADE TO REDUCE LIGHT POLLUTION AND SPILL LIGHT (LIGHT BEYOND AREAS THAT NEED TO BE LIT FOR SAFETY AND SECURITY REASONS).
- PEDESTRIAN SCALED LIGHTING MUST BE DIRECTED DOWNWARD AND INCLUDES FEATURES SUCH AS BOLLARDS OR LOWER SCALE POLE FIXTURES ALONG PEDESTRIAN ROUTES TO MINIMIZE LIGHT POLLUTION.
- WHERE CEILING HEIGHT EXCEEDS 10' FIXTURES ARE TO BE STEM OR CHAIN HUNG TO A HEIGHT OF 12' AFF EXCLUDING GARAGE LIGHT FIXTURES. INTERIOR DESIGN FIXTURES TO BE AS PER INTERIOR DESIGN DRAWINGS.
- OCCUPANCY-BASED LIGHTING CONTROL. DEVICES TURN LIGHTS OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE OR A SIGNAL FROM ANOTHER CONTROLLER.
- RECEPIRATOR SENSOR INSTALLATION TO BE AS PER MANUFACTURER'S RECOMMENDATION. PROVIDE ON/OFF/AUTO FOR ALL SWITCHES WHERE OCCUPANCY SENSORS ARE USED.
- EXIT SIGNS TO BE 5W OR LESS PER FACE.
- REFER TO SUITE PANEL SCHEDULE FOR IN SUITE CIRCUITRY ARRANGEMENT.
- COORDINATE LOCATION OF SUITE ELECTRICAL, C/7 AND SECURITY PANELS WITH ARCHITECTURAL DRAWINGS.
- ALL DWELLING UNIT RECEPTACLES, INCLUDING KITCHEN COUNTER RECEPTACLES, OF CSA CONFIGURATION 150W AND 5-20A SHALL BE "TAMPER RESISTANT" RECEPTACLES WITH EXCEPTION OF RECEPTACLES DEDICATED FOR STATIONARY APPLIANCES SUCH THAT THE RECEPTACLE IS RENDERED INACCESSIBLE, OR THOSE LOCATED 2m FROM THE FLOOR OR FINISHED GRADE.
- AT LEAST ONE RECEPTACLE SHALL BE INSTALLED FOR THE MAINTENANCE OF ROOFTOP HVAC EQUIPMENT AS PER RULE 2-3-114 AND SHALL BE LOCATED WITHIN 7.5m OF ALL SUCH EQUIPMENT AND COMPLY WITH REQUIREMENTS OF 28-T04 AND BULLETIN 28-27-4.
- WHERE EXPOSED TO THE WEATHER, RECEPTACLES SHALL BE PROVIDED WITH COVER PLATES SUITABLE FOR WET LOCATIONS WHETHER OR NOT A PLUG IS INSERTED INTO THE RECEPTACLE (N-USE COVER PLATES).
- EACH BRANCH CIRCUIT SUPPLYING 120V RECEPTACLES, RATED 20A OR LESS, SHALL BE PROTECTED BY A COMBINATION-TYPE AFCO EXCEPT BRANCH CIRCUITS SUPPLYING:
 - RECEPTACLES ON MOTION COUNTER (FOR PERSON WITH DISABILITIES)
 - BATHROOMS/WASHROOMS (PROVIDED THAT NO OTHER RECEPTACLES ARE CONNECTED TO THESE CIRCUITS)
 - Fridge, KITCHEN COUNTER, KITCHEN ISLAND AND PENINSULA
- FLOOR OUTLET BOXES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE TYPE OF FLOOR INTENDED.
- CONFIRM VOLTAGE AND SUPPLY OF THERMOSTATS WITH MECHANICAL DRAWINGS. COORDINATE ON SITE.
23. LOW VOLTAGE DRY TYPE TRANSFORMERS (AIR COOLED <=800VA) TO MEET NOMINAL EFFICIENCY REQUIRED BY ASHRAE 90.1

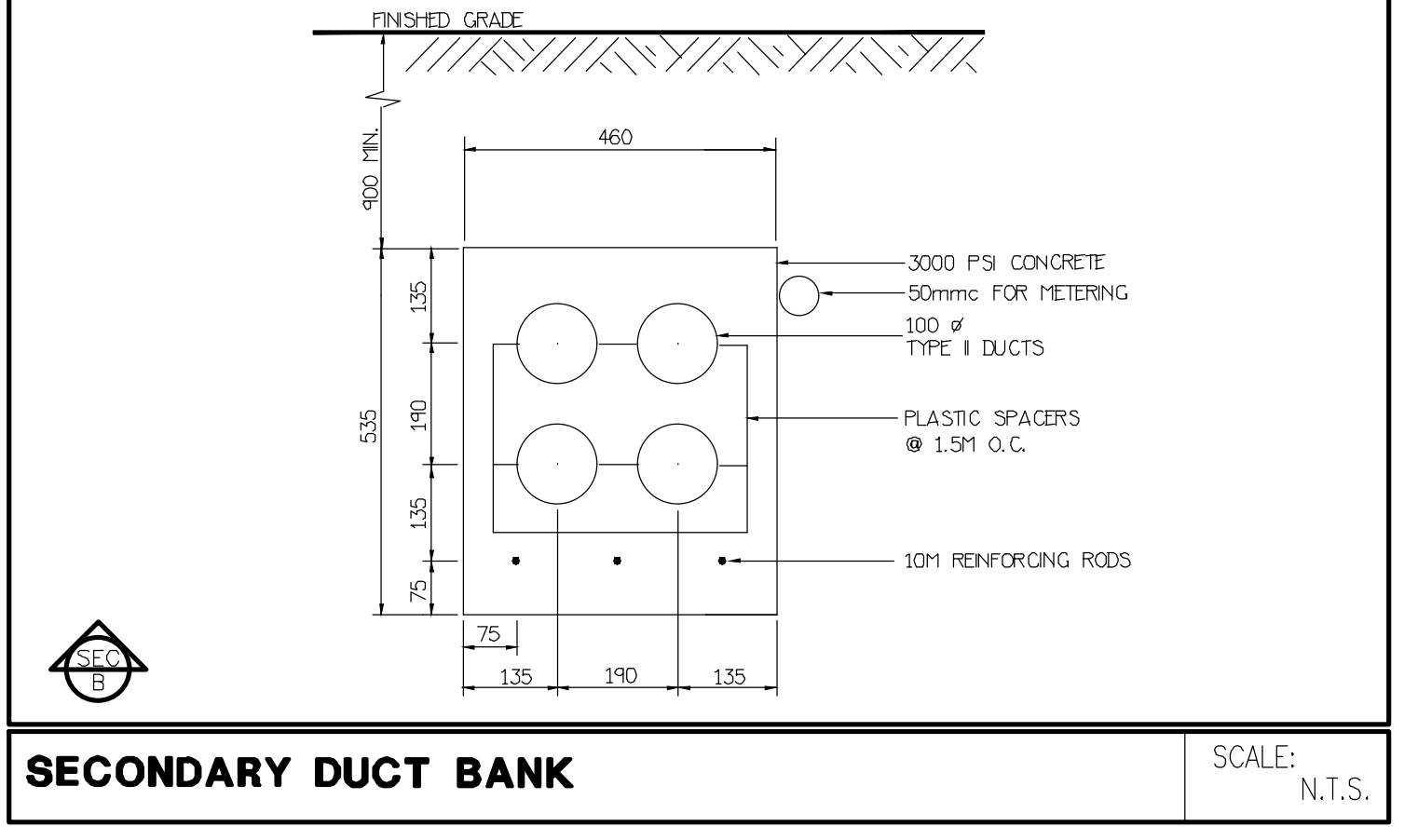
LEGEND

- INCANDESCENT LIGHTING FIXTURE CEILING AND WALL MOUNTED RESPECTIVELY
- AS ABOVE ONLY CONNECTED TO EMERGENCY SUPPLY
- FLUORESCENT LIGHTING FIXTURE CEILING MOUNTED
- AS ABOVE ONLY CONNECTED TO EMERGENCY SUPPLY
- EXISTING LIGHTING FIXTURE TO BE RELOCATED
- EXISTING LIGHTING FIXTURE TO BE REMOVED
- TRACK LIGHTING, TYPE PER SCHEDULE
- FLUORESCENT STRIP LIGHT
- CEILING OR WALL MTD ILLUMINATED EXIT SIGN. SPANDED AREA INDICATES ILLUMINATED FACE. GREEN RUNNING MAN PICTOGRAM COMPLY WITH CBC 2012.
- EXTERIOR LIGHTING STANDARD AS PER SCHEDULE
- EXTERIOR LIGHTING STANDARD AS PER SCHEDULE
- 120V U-GROUND DUPLEX RECEPTACLE
- 120V U-GROUND QUAD RECEPTACLE
- 120V U-GROUND DUPLEX GFI RECEPTACLE
- 120V 20A T-SLOT RECEPTACLE
- 120V U-GROUND DUPLEX RECEPTACLE WITH ONE HALL SWITCH CONTROLLED
- 250V 14-4W SDA RECEPTACLE CONNECT WITH 3/8" BX OR 3/8" TWH-19MM CONDUIT
- 250V 14-4W SDA RECEPTACLE CONNECT WITH 3/10 BX OR 3/10 TWH-19MM CONDUIT
- SINGLE RECEPTACLE VOLTAGE AND RATING AS SHOWN ON DRAWINGS
- WALL MOUNTED MOVABLE PARTITION FEED POINT
- FLOOR MOUNTED MOVABLE PARTITION FEED POINT
- ANY OF THE ABOVE DEVICES MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE
- DUPLEX RECEPTACLE FLOOR MOUNTED
- DUPLEX RECEPTACLE CEILING MOUNTED
- DUPLEX RECEPTACLE MOUNTED IN MILLWORK
- DATA OUTLET FLOOR MOUNTED
- VOICE/DATA OUTLETS MOUNTED IN MILLWORK
- VOICE/DATA OUTLETS WALL MOUNTED
- PAC-POLE
- CEILING OR WALL MOUNTED JUNCTION BOX
- PHOTO ELECTRIC CELL
- SINGLE POLE, SINGLE THROW TOGGLE SWITCH WITH ONE, TWO AND THREE GANG COVERPLATES.
- THREE-WAY SWITCH
- FOUR-WAY SWITCH
- MANUAL TIME SWITCH MID 1100AM AFF (PARAGON FTS-0, 30 MINUTES). EXCEPT AS NOTED
- SWITCH WITH PILOT LIGHT
- DIMMER SWITCH, 1500W RATED. PROVIDE DIMMING BALLAST FOR FLUORESCENT
- LOW VOLTAGE SWITCH
- 347V SWITCH
- FAN SWITCH
- KEY SWITCH
- MASTER OPERATION SWITCH
- OCCUPANCY SENSORS FOR LIGHTING CONTROL
- CEILING MOUNTED OCCUPANCY SENSORS
- WALL MOUNTED OCCUPANCY SENSORS
- DIRECT CONNECTION OUTLET AS NOTED
- SINGLE PHASE MOTOR, HP (KW) AS NOTED
- THREE PHASE MOTOR, HP (KW) AS NOTED
- MANUAL MOTOR STARTER
- MAGNETIC MOTOR STARTER
- CONTACTOR OR STARTER
- CONTACTOR OR STARTER
- DISCONNECT SWITCH, SIZE AS NOTED
- THERMOSTAT SUPPLIED BY OTHERS, INSTALLED BY DIV. 16
- LOW LIMIT THERMOSTAT C/W FIRE ALARM TROUBLE ZONE. PROVIDED BY DIV. 16
- HUMIDISTAT SUPPLIED BY OTHERS, INSTALLED BY DIV. 16
- LOW VOLTAGE VALVE AND TRANSFORMER SUPPLIED BY OTHERS INSTALLED BY DIV. 16
- FAN SPEED CONTROLLER SUPPLIED BY OTHERS INSTALLED BY DIV. 16
- PIPE TRACING HEATING CABLE
- DRUM DRIP OR INSPECTION TEST ELECTRICALLY TRACED
- ELECTRIC HEATER PER SCHEDULE EL HEATER IDENTIFIER (4w TYPE, 1.0-4kW)
- TELEPHONE ZONE CONDUIT
- WALL MOUNTED TELEPHONE OUTLET
- FLOOR MOUNTED TELEPHONE OUTLET
- WALL MOUNTED LOW TENSION OUTLET
- WALL MOUNTED MICROPHONE OUTLET
- WALL MOUNTED INTERCOM OUTLET
- WALL MOUNTED EMERGENCY PULL SWITCH/INTERCOM
- FLOOR MOUNTED LOW TENSION OUTLET
- IN SUITE, TELEPHONE/TV/CABLE DISTRIBUTION PANEL. 120V OUTLET ABOVE THE PANEL, TO BE FED FROM SUITE PANEL
- WALL MOUNTED TELEVISION OUTLET
- TV/TELEPHONE IN SEPARATE BOXES AND FACILITIES (MULTI PORT) - FOR SOLE PURPOSE OF CONNECTING DATA MODEM WITH ROGERS/BELL PROVIDERS
- WALL MOUNTED IN SUITE SECURITY PANEL
- ENTRYPHONE OR SECURITY OPERATED MAGLOCK
- GARD READER
- SECURITY DOOR MONITOR SWITCH
- SECURITY SYSTEM MOTION DETECTOR
- SECURITY SYSTEM DOOR CONTACT
- SECURITY INTERCOM OUTLET
- PANIC ALARM RECEIVER C/W INTERCOM
- CCTV CAMERA
- SIGNAL BELL
- SIGNAL BUZZER
- SIGNAL PUSH BUTTON
- POWER CONNECTION FOR AUTOMATIC DOOR OPERATOR
- DOOR STRIKE CONTROLLED BY INTERCOM OR ENTRYPHONE
- SIGNAL TRANSFORMER
- GARBAGE MONITORING DETECTOR
- CEILING OR WALL MOUNTED P.A. SPEAKER BY OTHERS. OBTAIN BACKSHEET AND INSTALL
- SPEAKER VOLUME CONTROL
- AUDIO VISUAL KEYPAD
- WALL MOUNTED CLOCK
- MASTER CLOCK
- EMERGENCY LIGHTING BATTERY UNIT
- 1 AND/OR 2 HEADS EMERGENCY LIGHTING
- MANUALLY OPERATED FIRE ALARM STATION
- FIRE ALARM BELL
- SURFACE MOUNTED FIRE ALARM SPEAKER IN GARAGE
- FIRE ALARM HORN WALL SURFACE MOUNTED IN GARAGE
- FIRE ALARM MINI HORN FLUSH MOUNTED
- FIRE ALARM STROBE LIGHT
- FIRE ALARM COMBINATION HORN/STROBE LIGHT
- FIRE ALARM CEILING MOUNTED SPEAKER
- FIRE ALARM WALL MOUNTED SPEAKER
- HEAT DETECTOR 94 DEGREE C FIXED
- HEAT DETECTOR 58 DEGREE C FIXED TEMP. & RATE OF RISE
- COMBINATION 120V SMOKE ALARM & HEAT DETECTOR
- PHOTOELECTRIC SMOKE DETECTOR
- IONIZATION SMOKE DETECTOR
- DUCT MOUNTED SMOKE DETECTOR
- 120V SMOKE ALARM
- FIRE ALARM OPERATED DOOR HOLD OPEN DEVICE
- COMBINATION 120V CO AND SMOKE DETECTOR
- FIRE ALARM ISOLATION SWITCH CEILING MOUNTED
- SUPERVISORY VALVE WIRED BY THIS DIVISION
- SPRINKLER FLOW ALARM WIRED BY THIS DIVISION
- SPRINKLER PRESSURE SWITCH WIRED BY THIS DIVISION
- SPEAKER VOLUME CONTROL
- FIRE FIGHTER TELEPHONE/HANDSET
- TIME SWITCH (PARAGON 4200-SZ, SKIP-A-DAY, ASTROLOGICAL, 24 HOURS)
- SURFACE MOUNTED LIGHTING OR POWER PANEL
- FLUSH MOUNTED LIGHTING OR POWER PANEL
- NEXT TO DEVICES INDICATES WEATHER PROOF, GROUND FAULT INTERRUPTER AND ISOLATED GROUND
- IDENTIFIES LIGHTING FIXTURE TYPE
- RECESSED STEP LIGHT

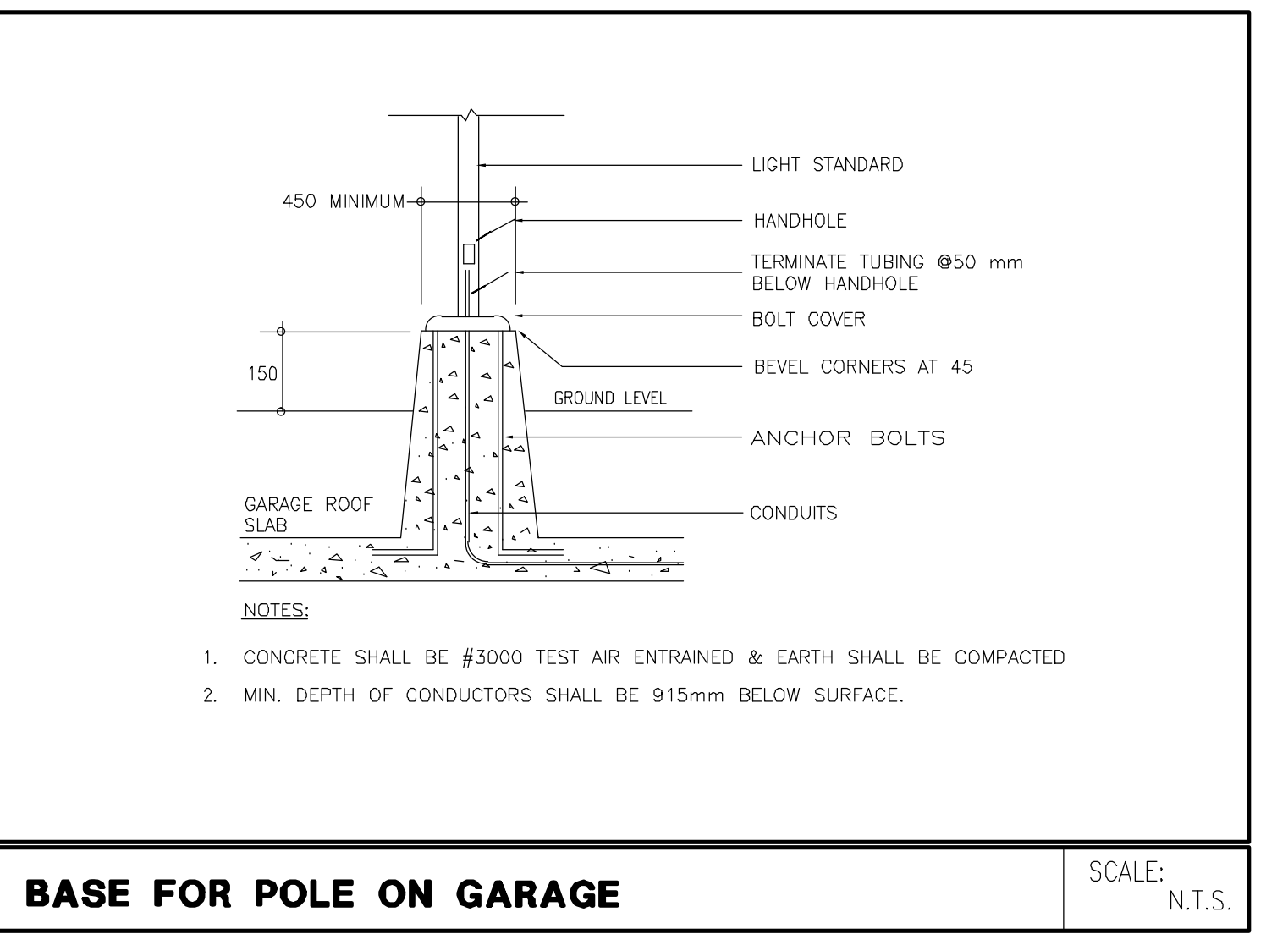
NOTE:
THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.



PRIMARY DUCT BANK SCALE: N.T.S.

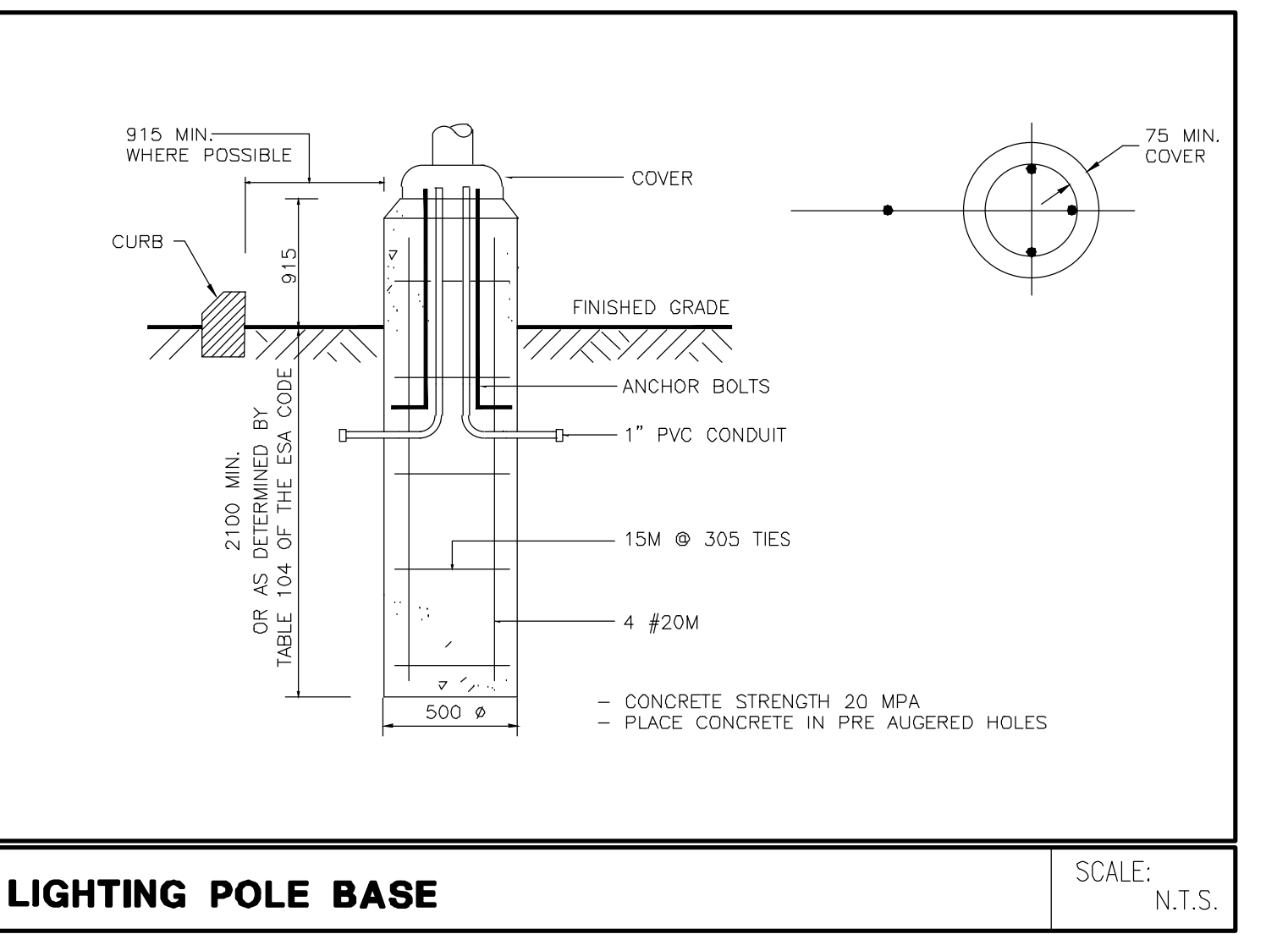


SECONDARY DUCT BANK SCALE: N.T.S.



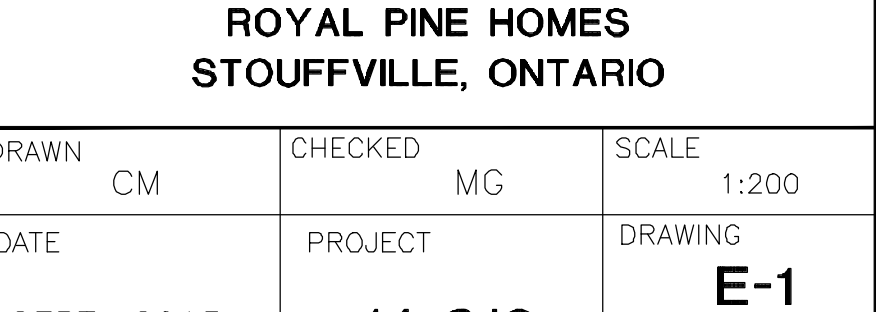
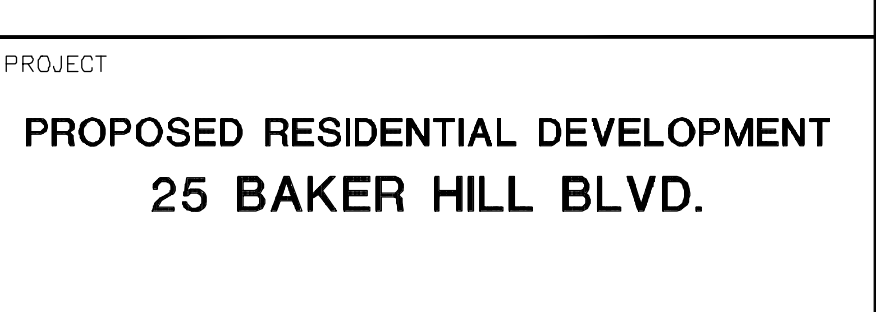
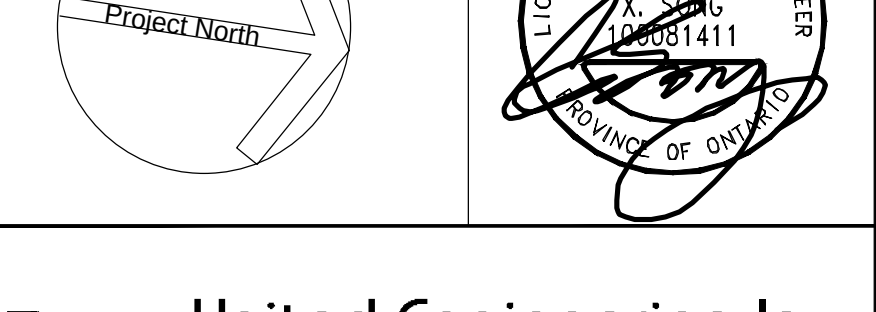
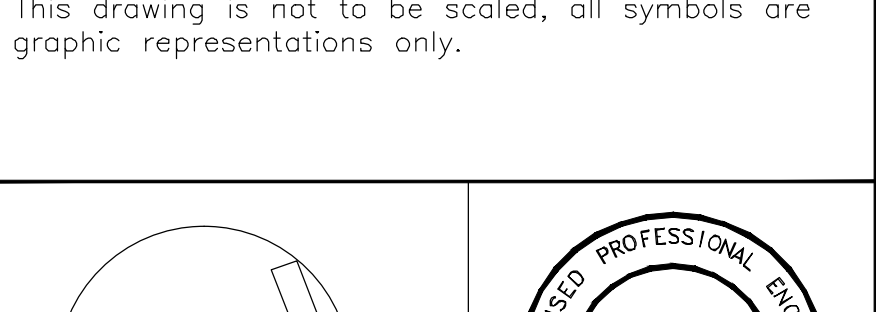
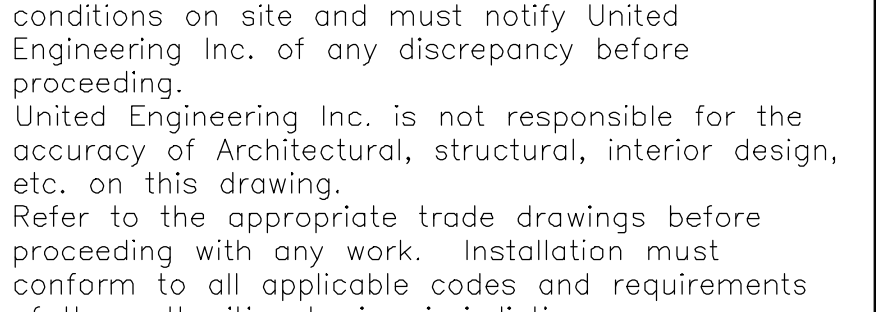
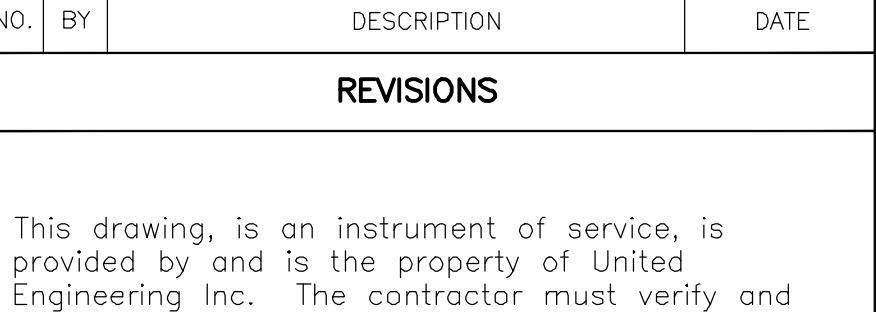
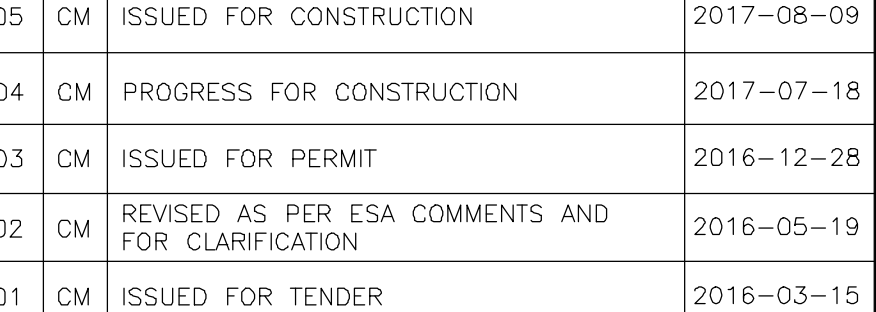
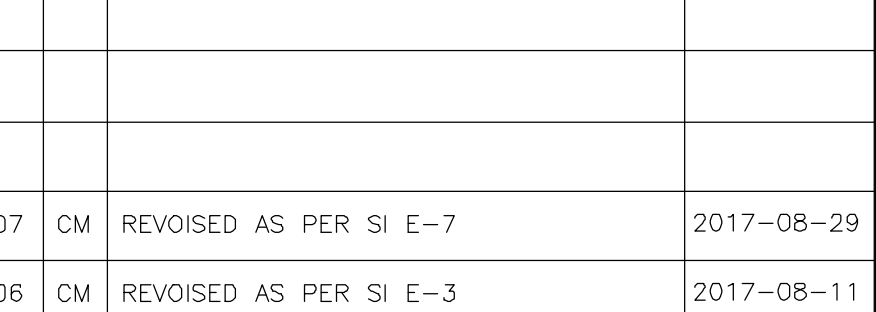
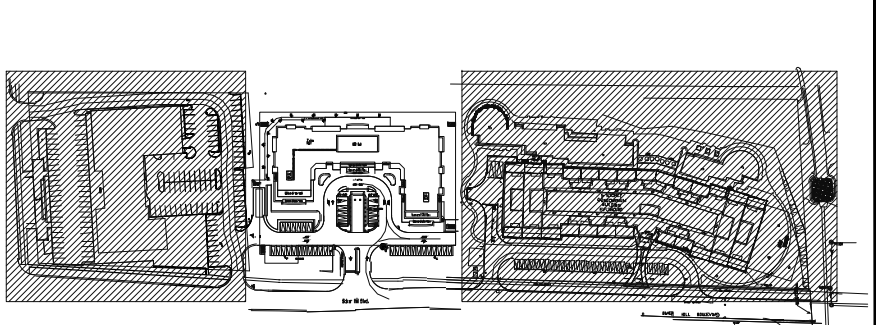
BASE FOR POLE ON GARAGE SCALE: N.T.S.

DWG. #	TITLE	SCALE
E-1	SITE PLAN	1:200
E-2A/E-2B	PARKING P1 LEVEL	1:100
E-3A/E-3B	GROUND FLOOR PLAN	1:100
E-4A/E-4B	2ND FLOOR PLAN	1:100
E-5A/E-5B	3RD - 5TH FLOOR PLANS	1:100
E-6A/E-6B	6TH FLOOR PLAN	1:100
E-7A/E-7B	7TH FLOOR PLAN	1:100
E-8	MECHANICAL PENTHOUSE	1:100
E-9A	DETAILS 1	N.T.S.
E-9B	DETAILS 2	N.T.S.
E-10	RISER DIAGRAMS	N.T.S.
E-11	SINGLE LINE DIAGRAM	N.T.S.
E-12	PANEL SCHEDULES	N.T.S.



LIGHTING POLE BASE SCALE: N.T.S.

PANEL IDENTIFY:	A	SERVICE:	208Y/120V, 3Ø, 4W			NOTES:
		MAIN CDT, BRK:	-			
		MAINS:	125 AMPS			
		MOUNTING:	SURFACE			
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
EXTERIOR LIGHTING (1ST)	800	15A	1	2	15A	640 SITE LIGHTING
EXTERIOR LIGHTING (1ST)	400	15A	3	4	15A	480 SITE LIGHTING
EXTERIOR LIGHTING (1ST)	600	15A	5	6	15A	SIGNAGE LIGHTING
SPARE	15A	7	8	8	15A	SPARE
	15A	9	10	10	15A	
	15A	11	12	12	15A	
	15A	13	14	14	15A	
	15A	15	16	16	15A	
	15A	17	18	18	15A	
SPARE	16	20				SPARE
	21	22				
	23	24				
	25	26				
	27	28				
	29	30				



FOR CONTINUATION REFER TO DWG. E-2B

KEY NOTES:

- WHEN CONNECTING GARAGE LIGHTS TO "100" EACH SENSOR TO BE AS A LIGHT BAY FOR NORMAL LIGHTS. EMERGENCY LIGHTS NOT CONNECTED TO (TYPICAL)
- CO AUDIO/VISUAL INDICATOR
- SMOKE DETECTOR ELEVATOR RECALL CO-ORDINATE WITH ELEVATOR CONTRACTOR
- 20A TRISORTER CONTROL PANEL
- GARAGE COMPACTOR TRISORTER FED FROM DP24
- G/H DOOR OPERATOR FED FROM DPEN21
- "DO NOT ENTER" SIGNAGE INTERCONNECTED TO FIRE ALARM ECN-2
- G/H DOOR CONTROL PANEL TO BE INTERCONNECTED TO FIRE ALARM SYSTEM TO OPEN UPON ACTIVATION OF FIRE ALARM
- WIRELESS RECEIVER
- IRRIGATION PUMP "P-X" COORDINATE EXACT LOCATION ON SITE WITH LANDSCAPE DESIGNER (X HP X/V/60) FED FROM XXX
- ISA 211 RECEPTACLE FOR THE IRRIGATION CONTROLLER COORDINATE EXACT LOCATION ON SITE WITH LANDSCAPE DESIGNER
- "1" CONDUIT C/W PULL STRING FROM THE IRRIGATION CONTROLLER TO THE WATER SUPPLY POINT OF CONNECTION OUTSIDE THE BUILDING. COORDINATE EXACT LOCATION ON SITE WITH LANDSCAPE DESIGNER (TYPICAL)
- 100W STORM DISCHARGE UP INSULATE & ELECTRICALLY TRACE EXPOSED PIPE THROUGH OUT. FED FROM PANEL "E"
- 75W SANITARY DISCHARGE UP INSULATE & ELECTRICALLY TRACE EXPOSED PIPE THROUGH OUT. FED FROM PANEL "E"
- VANDAL PROOF SANITARY SUMP PIT C/W "P-8" (DUPLX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM DPEN62
- VANDAL PROOF STORM SUMP PUMP C/W "P-9" (DUPLX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM DPEN62
- GARAGE EXHAUST FAN "T-11" (5HP 600/3/60) PROVIDE VANDAL PROOF CONTROL EQUIPMENT TO BE INTERLOCKED WITH CO SYSTEM (TYPICAL FOR 3)
- LIGHTING CONTROL TO BE INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN (TYPICAL IN LOCKERS)
- VANDAL PROOF ELEVATOR SUMP PIT "P-10" (SIMPLX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM PANEL ECN-15
- LOWER STAIR PRESSURIZATION FAN C/W DUCT SMOKE DETECTOR AND FIRE ALARM ZONE EB-6 (STAIR A) EB-8 (STAIR B) EB-10 (STAIR C)
- INSULATE AND ELECTRICALLY TRACE EXPOSED PIPING FED FROM PANEL "E"
- DRUM DRIP ELECTRICALLY TRACED & INSULATED FED FROM PANEL "E"
- TOP OF STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- 20W NON FREEZE HOSE BIBB INSULATE & ELECTRICALLY TRACE EXPOSED PIPING THRU OUT TO BE FED FROM PANEL "E"
- 65I OUTLET FOR WATER SOFTENER EXACT LOCATION TO BE CONFIRMED ON SITE

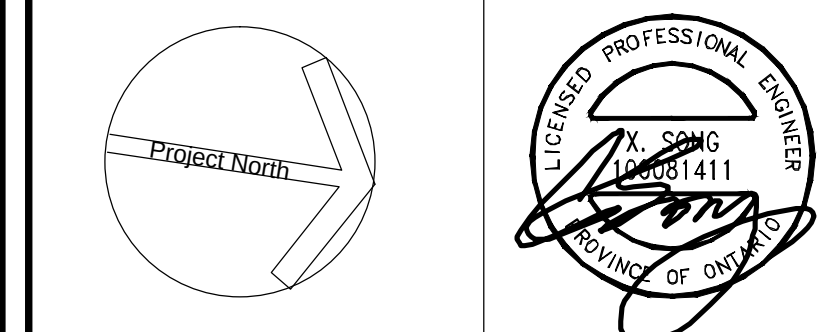
NOTES:

- ALL INSULATE AND ELECTRICALLY HEAT TRACING TO BE READ IN CONJUNCTION WITH MECHANICAL AND SPRINKLER DRAWINGS.
- POWER REQUIREMENT FOR IRRIGATION PUMP "P-X" TBC BY LANDSCAPE DESIGNER.

NO.	BY	DESCRIPTION	DATE
07	CM	ISSUED FOR AS PER SI E-10	2017-08-12
06	CM	ISSUED FOR AS PER SI E-3	2017-08-11
05	CM	ISSUED FOR CONSTRUCTION	2017-08-09
04	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
03	CM	ISSUED FOR PERMIT	2016-12-28
02	CM	REVISED AS PER ISA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

REVISIONS

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TITLE
**PARKING P1 LEVEL - A
ELECTRICAL**

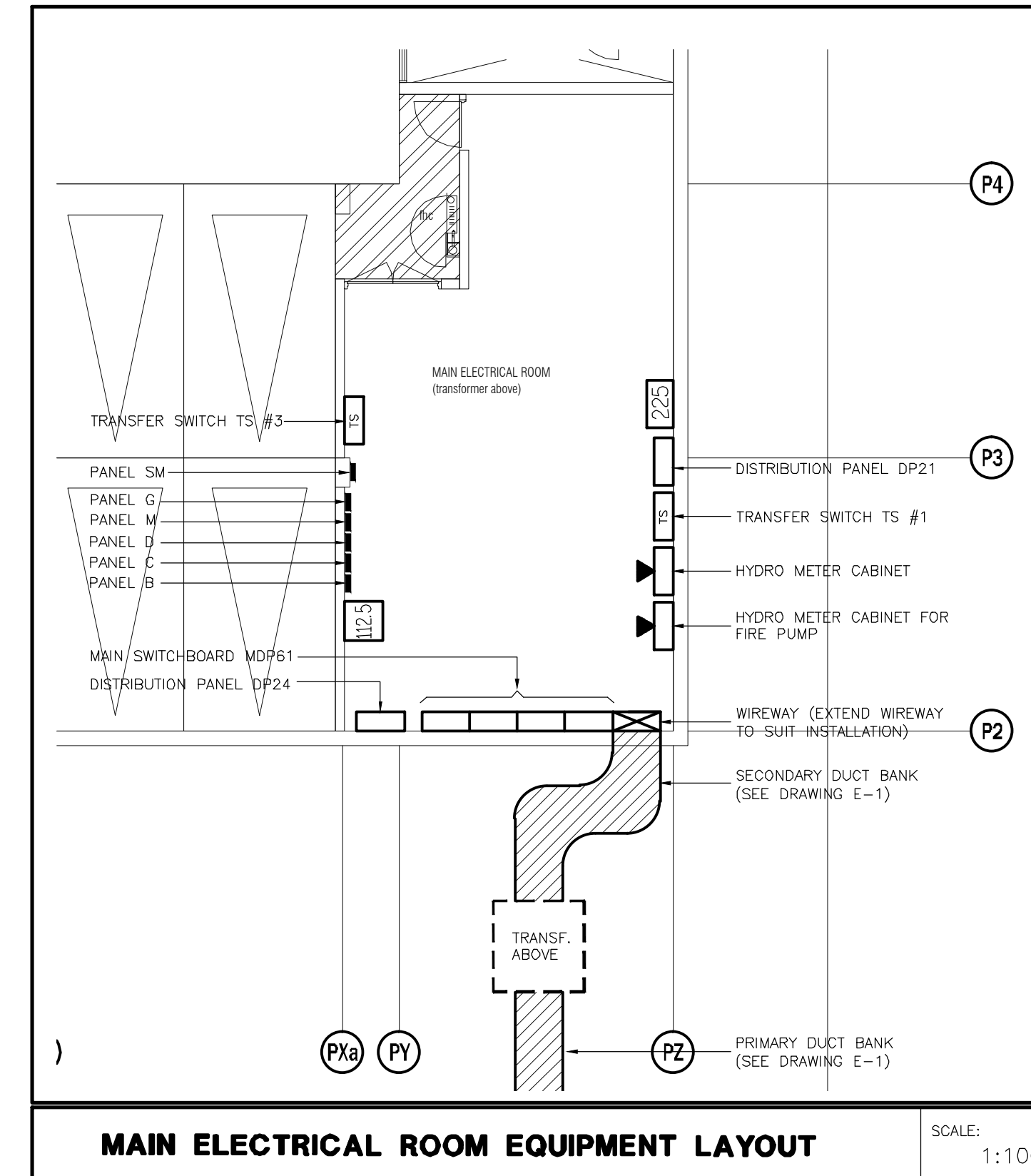
PROJECT
**PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.**

ROYAL PINE HOMES
STOUFFVILLE, ONTARIO

DRAWN	CM	CHECKED	MG	SCALE	1:100
DATE	SEPT. 2015	PROJECT	14-016	DRAWING	E-2A
				OF	12

- ◇ WHEN CONNECTING GARAGE LIGHTS TO "OSC" (EACH SENSOR TO BE AS A LIGHT BY FOR NORMAL LIGHTS. EMERGENCY LIGHTS NOT CONNECTED TO SENSORS) ALL REMAIN ON AT ALL TIMES (TYPICAL)
- ◇ CO AUDIO/VISUAL INDICATOR
- ◇ SMOKE DETECTOR ELEVATOR RECALL CO-ORDINATE WITH ELEVATOR CONTRACTOR
- ◇ 25A- TRISORTER CONTROL PANEL
P=1-11
- ◇ GARBAGE COMPACTOR TRISORT FED FROM DP24
- ◇ 0/1H DOOR OPERATOR FED FROM DPEN21
- ◇ DO NOT ENTER' SONGME INTERCONNECTED TO FIRE ALARM ECN-2
- ◇ 0/1H DOOR CONTROL PANEL TO BE INTERCONNECTED TO FIRE ALARM SYSTEM TO OPEN UPON ACTIVATION OF FIRE ALARM
- ◇ WIRELESS RECEIVER
- ◇ IRRIGATION PUMP "P-3"
COORDINATE EXACT LOCATION ON SITE WITH LANDSCAPE DESIGNER
(X HP X/P/3/60) FED FROM XXX
- ◇ 15A GFI RECEPTACLE FOR THE IRRIGATION CONTROLLER
COORDINATE EXACT LOCATION ON SITE WITH LANDSCAPE DESIGNER
- ◇ 1" CONDUIT C/W PLUMB STRING FROM THE IRRIGATION CONTROLLER TO THE WATER SUPPLY POINT OF CONNECTION OUTSIDE THE BUILDING. COORDINATE EXACT LOCATION ON SITE WITH LANDSCAPE DESIGNER
- ◇ 100A STORM DISCHARGE UP INSULATE & ELECTRICALLY TRACE EXPOSED PIPE THROUGH OUT.
FED FROM PANEL "E3"
- ◇ 75# SANITARY DISCHARGE UP INSULATE & ELECTRICALLY TRACE EXPOSED PIPE THROUGH OUT.
FED FROM PANEL "E3"
- ◇ VANDAL PROOF- SANITARY SUMP PIT C/W "P-8" (DUPLEX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE.
REFER TO DETAIL
FED FROM DPEN22
- ◇ VANDAL PROOF- STORM SUMP PUMP C/W "P-9" (DUPLEX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE.
REFER TO DETAIL
FED FROM DPEN22
- ◇ GARAGE EXHAUST FAN "T-11" (SHP 600/3/60) PROVIDE VANDAL PROOF CONTROL EQUIPMENT TO BE INTERLOCKED WITH CO SYSTEM
FED FROM DPW62
(TYPICAL FOR 3)
- ◇ LIGHTING CONTROL TO BE INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN (TYPICAL IN LOCKER)
REFER TO DETAIL
FED FROM PANEL ECN-15
- ◇ LOWER STAIR PRESSURIZATION FAN C/W DUCT SMOKE DETECTOR AND FIRE ALARM ZONE
EB-8 (STAIR A)
EB-8 (STAIR B)
EB-10 (STAIR C)
- ◇ INSULATE AND ELECTRICALLY TRACE EXPOSED PIPING
FED FROM PANEL "E3"
(TYPICAL)
- ◇ DRUM DRIP ELECTRICALLY TRACED & INSULATED
FED FROM PANEL "E3"
(TYPICAL)
- ◇ TOP OF STAIR
SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- ◇ 20# NON FREEZE HOSE BIBB INSULATE & ELECTRICALLY TRACE EXPOSED PIPING THRU OUT TO BE FED FROM PANEL "E3"
(TYPICAL)
- ◇ 6/1 OUTLET FOR WATER SOUTERIOR
EXACT LOCATION TO BE CONFIRMED ON SITE

1. ALL INSULATE AND ELECTRICALLY HEAT TRACING TO BE READ IN CONJUNCTION WITH SPRINKLER DRAWINGS.
2. POWER REQUIREMENT FOR IRRIGATION PUMP "P-X" TBD BY LANDSCAPE DESIGNER.

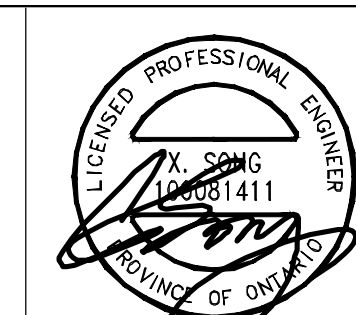
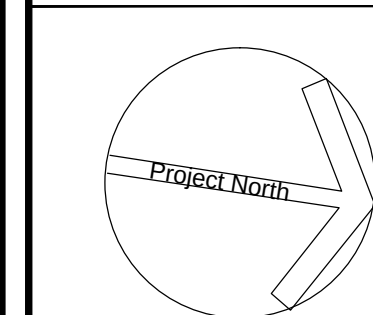


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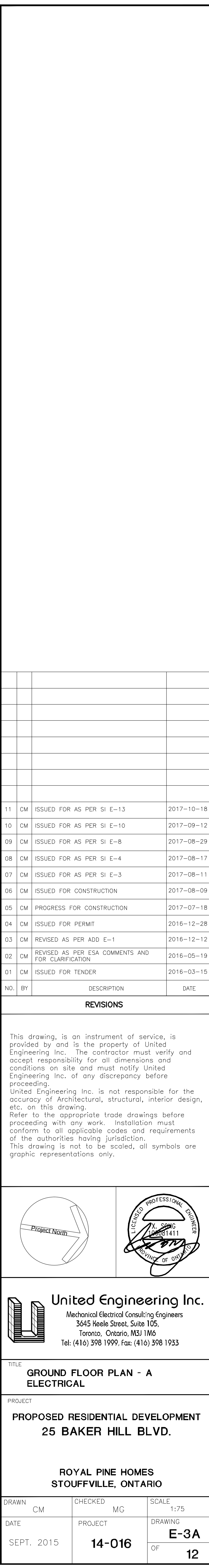
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 3645 Keele Street, Suite 105,
 Toronto, Ontario, M3J 1M6
 Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE	PARKING P1 LEVEL - B ELECTRICAL
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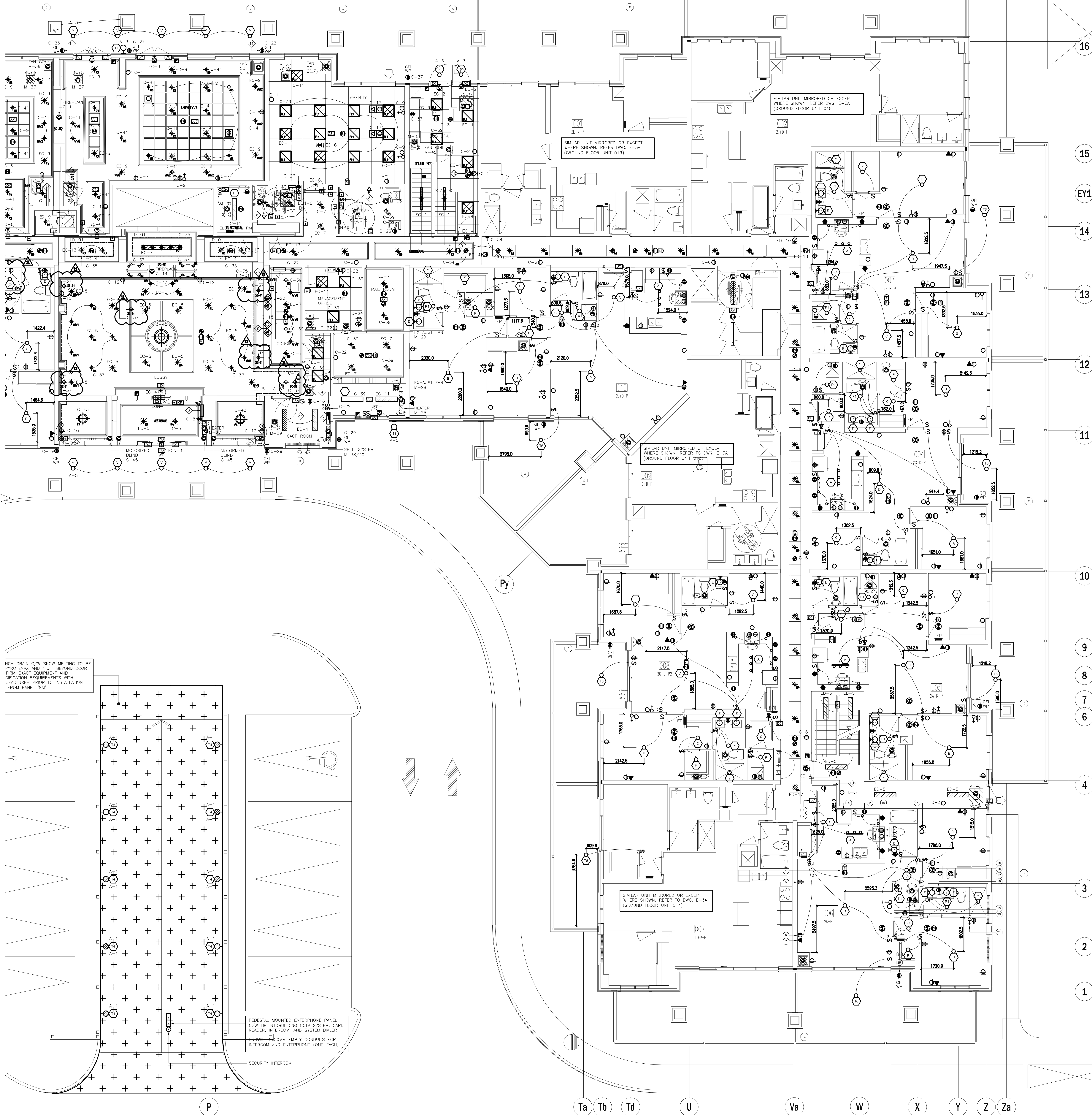
PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.

ROYAL PINE HOMES
STOUFFVILLE, ONTARIO

DRAWN CM	CHECKED MG	SCALE 1:100
DATE SEPT. 2015	PROJECT 14-016	DRAWING E-2B
		OF 12



FOR CONTINUATION REFER TO DWG. E-3A



SUITES' KEY NOTES (TYPICAL)

- DOOR CONTACT
- 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 1.5M OF KITCHEN SINKS ALONG THE WALL BEHIND THE COUNTERS SHALL BE PROTECTED BY GFI BREAKERS OF THE CLASS A TYPE)
- UNDER COUNTER LIGHTING TYPE TO BE CONFIRMED BY CLIENT
- 250V, 18, 4W, 50A RECEPTACLE FOR RANGE, CONNECT WITH 3/8" BX OR 3/8" 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 (FOR 1ST, 2ND AND 7TH FLOORS ONLY)
- CEILING MOUNTED 120V SMOKE ALARM DETECTOR (FOR ALL OTHER FLOORS (3RD-6TH))
- ALL DETECTORS WITHIN SAME SUITE TO BE INTERCONNECTED AND HAVE A VISUAL SIGNALING COMPONENT IN ACCORDANCE WITH CODE
- DIRECT CONNECTION FOR VERTICAL FAN COIL UNIT REFER TO MECHANICAL DRAWING FOR MORE DETAILS
- 120V U-GROUND DUPLEX GFI RECEPTACLE FOR WASHROOM
- 120V, 15A, RECEPTACLE FOR WASHER
- 250V, 10, 4W, 30A RECEPTACLE FOR DRYER, CONNECT TO 3/8" BX OR 3/8" THW-19MM CONDUIT
- WALL MOUNTED TV OUTLET
- DIRECT CONNECTION FOR DRYER EXHAUST FAN
- DIRECT CONNECTION FOR WASHROOM EXHAUST FAN
- FLUSH MOUNTED SUITE SERVICE PANEL SEE DRAWING E-16 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 7TH FLOOR)

NOTES:
ALSO REFER TO TYPICAL SUITES NOTES ON DRAWING E-9B. (ALL RECEPTACLES SHALL BE PROTECTED BY AFCI-AULT INTERRUPTERS)

GENERAL KEY NOTES

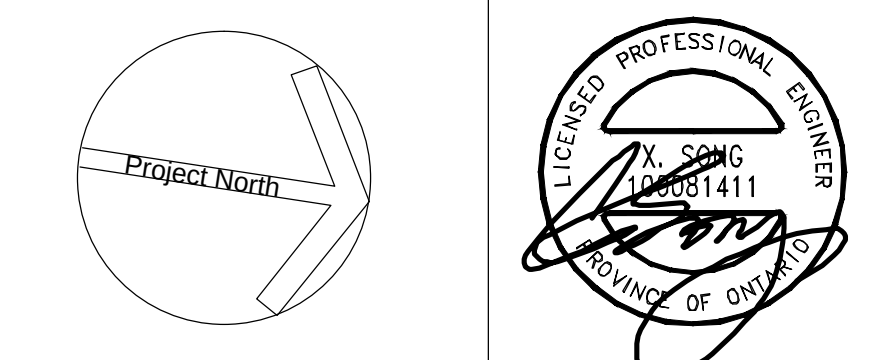
- JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM
- INTERPHONE PANEL C/W TIE INTO BUILDING CCTV SYSTEM, CARD READER, INTERCOM, AND SYSTEM DIALER FED FROM ECN-11
- CAC: FIRE ALARM CONTROL PANEL FED FROM DPE2
- KEY SWITCH ELEVATOR RECALL CO-ORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR
- FIRE ALARM MASTER OPERATION SWITCH FOR FIRE DEPARTMENT MASTER CONTROL FED FROM ECN-13
- CONFIRM POWER AND COMMUNICATION REQUIREMENTS AT CONCIERGE DESK WITH CLIENT. PROVIDE 4x2" CONDUIT TO COMMUNICATION ROOM
- BUILDING STATUS ANNUNCIATOR PANEL
- EMERGENCY BUTTON C/W INTERCONNECTION TO CONCIERGE
- DOOR HOLD OPEN DEVICE INTERCONNECTED TO FIRE ALARM SYSTEM TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM INTERCONNECTED TO LOCALIZED SMOKE DETECTORS
- TOP OF STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- GFI WEATHERPROOF BRG RECEPTACLE TO BE INSTALLED AT LEAST 1M AWAY FROM GAS CONNECTION. COORDINATE EXACT LOCATION ON SITE (TYPICAL FOR 2)
- FIREPLACE'S CONTROL, REQUIREMENT AND LOCATION TBC
- FRIDGE C-32
- DISHWASHER C-42
- SPLIT COUNTER RECEPTACLES C-34/36
- SPLIT COUNTER RECEPTACLES C-38/40
- COOKTOP C-44
- MICRO/FAN C-46
- STOVE C-48
- SPLIT SYSTEM E-8 (STORAGE) M-42/44
- SPLIT SYSTEM E-8 (WC) M-44/48
- SPLIT SYSTEM E-8 (AMENITY) M-50/52
- SPLIT SYSTEM E-8 (AMENITY) M-54/56
- BASEBOARD HEATER M-23
- BASEBOARD HEATER M-25
- COVE LIGHTING 'LD-01' C-56
- CAC ROOM IS REQUIRED TO CONTAIN THE FOLLOWING CONTROLS:
 - 4 MEANS TO CONTROL THE VOICE COMMUNICATION SYSTEM
 - 2 MEANS TO INDICATE AUDIBLE AND VISUAL ALARM SIGNALS
 - MEANS TO INDICATE VISUALLY THAT ELEVATORS ARE ON EMERGENCY RECALL
 - MEANS TO TRANSMIT ALARM SIGNALS TO THE FIRE DEPARTMENT
 - MEANS TO RELEASE HOLD-OPEN DEVICES
 - MEANS TO MANUALLY ACTIVATE ALARM SIGNALS
 - MEANS TO SILENCE ALARM SIGNALS
 - MEANS TO COMMUNICATE WITH EVERY ELEVATOR CAR
 - MEANS TO INDICATE VISUALLY INDIVIDUAL SPRINKLER SYSTEM WATER FLOW SIGNALS
 - A SWITCH TO SILENCE THE AUDIBLE PORTION OF A SUPERVISORY SIGNAL OR A TROUBLE SIGNAL
 - CONTROLS TO STOP AIR HANDLING SYSTEMS
 - CONTROLS TO INITIATE EMERGENCY PRESSURIZATION AIR SUPPLIES
 - CONTROLS TO OPERATE POWERED DOOR OPERATORS AND/OR MOTORIZED FIRE DAMPERS FORMING PART OF A PRESSURIZATION/RELIEF SYSTEM
- CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO ROUGH-IN.

1. ELECTRICAL DRAWINGS TO BE READ IN CONJUNCTION WITH THE INTERIOR DESIGNER'S DRAWINGS IN AREAS SUCH AS LOBBY, AMENITY, MANAGEMENT OFFICE, MAIL, CONCIERGE AND CORRIDORS. REFER TO THE INTERIOR DESIGNER'S DRAWINGS FOR EXACT LOCATION, REQUIREMENTS, MOUNTING HEIGHT AND LIGHTING SPECIFICATION.

NO.	BY	DESCRIPTION	DATE
09	CM	ISSUED FOR AS PER SI E-10	2017-09-12
08	CM	ISSUED FOR AS PER SI E-4	2017-08-17
07	CM	ISSUED FOR AS PER SI E-3	2017-08-11
06	CM	ISSUED FOR CONSTRUCTION	2017-08-09
05	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
04	CM	ISSUED FOR PERMIT	2016-12-28
03	CM	REVISED AS PER ADD E-1	2016-12-12
02	CM	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

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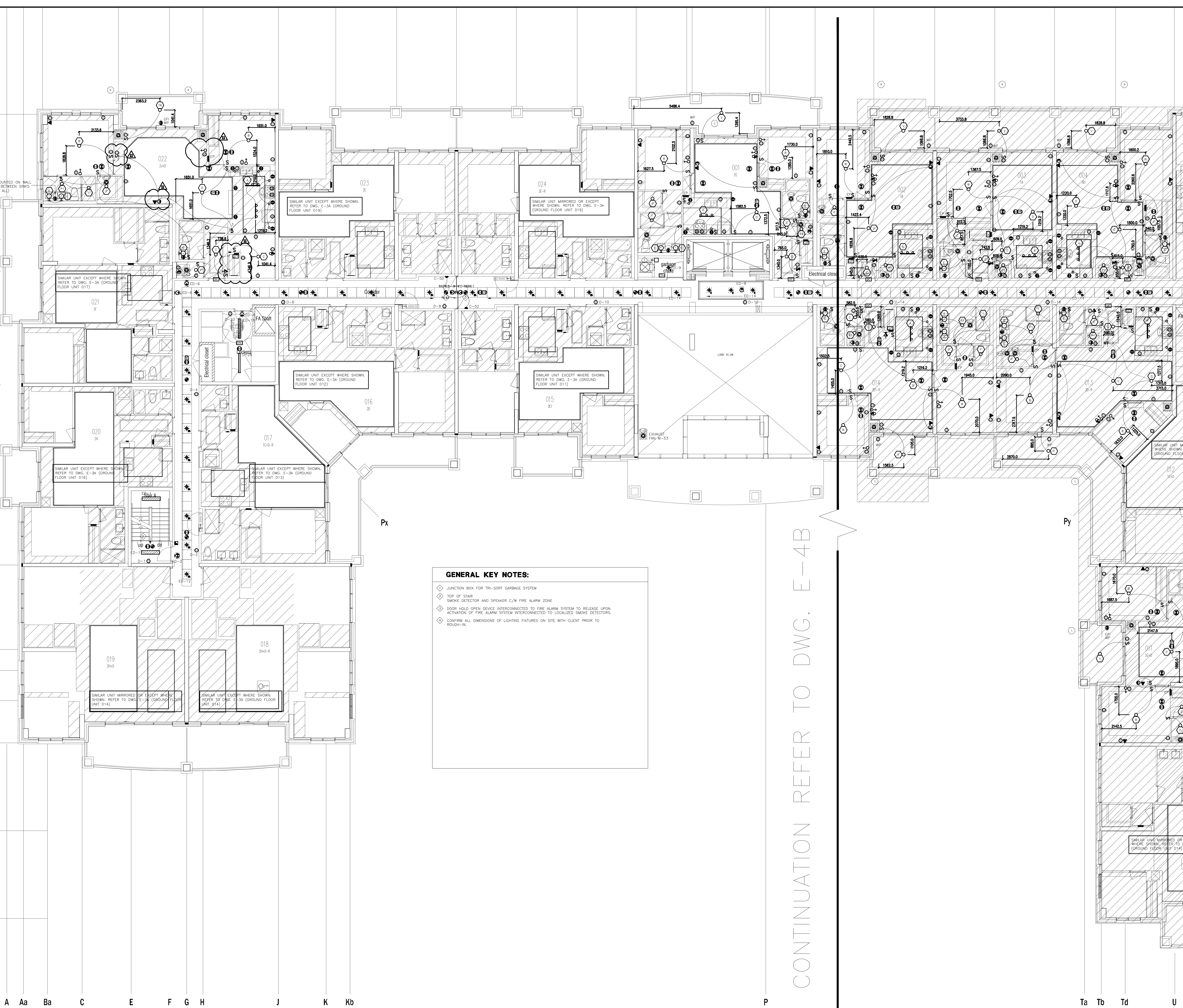
TITLE
**GROUND FLOOR PLAN - B
ELECTRICAL**

PROJECT
**PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.**

**ROYAL PINE HOMES
STOUFFVILLE, ONTARIO**

DRAWN	CM	CHECKED	MG	SCALE	1:75
DATE	SEPT. 2015	PROJECT	14-016	DRAWING	E-3B
				OF	12

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GENERAL KEY NOTES:

- ◆ JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM
- ◆ TOP OF STAIR
- ◆ SMOKE DETECTOR AND SPEAKER C/N FIRE ALARM ZONE
- ◆ DOOR HOLD OPEN DEVICE INTERCONNECTED TO FIRE ALARM SYSTEM TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM INTERCONNECTED TO LOCALIZED SMOKE DETECTORS.
- ◆ CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO INSTALLATION.

FOR CONTINUATION REFER TO DWG. E-4B

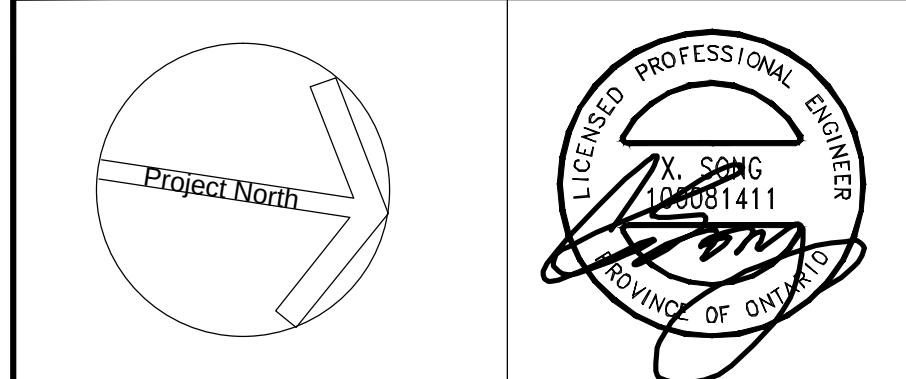
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08	CM	ISSUED FOR CONSTRUCTION	2017-08-09
07	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
06	CM	ISSUED FOR PERMIT	2016-12-28
05	CM	REVISED AS PER ADDENDUM E-1	2016-12-12
04	CM	REVISED AS PER SI E-2	2016-10-04
03	CM	REVISED AS PER SI E-1	2016-08-22
02	CM	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

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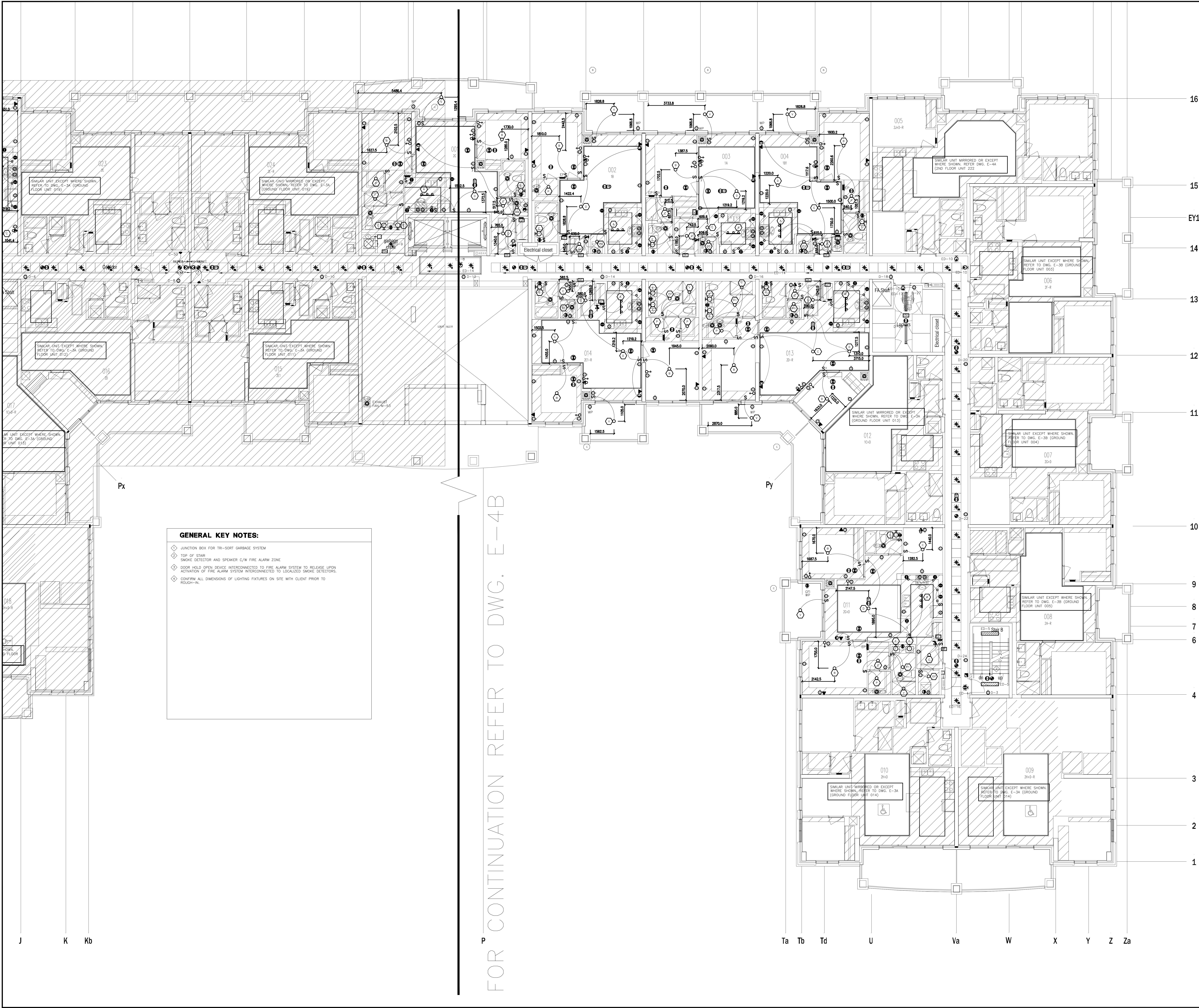
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TITLE
2ND FLOOR PLAN - A
ELECTRICAL

PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.

**ROYAL PINE HOMES
STOUFFVILLE, ONTARIO**

DRAWN CM	CHECKED MG	SCALE 1:75
DATE SEPT. 2015	PROJECT 14-016	DRAWING E-4A
		OF 12



GENERAL KEY NOTES:

- ⬢ JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM
- ⬢ TOP OF STAIR
- ⬢ SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- ⬢ DOOR HOLD OPEN DEVICE INTERCONNECTED TO FIRE ALARM SYSTEM TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM INTERCONNECTED TO LOCALIZED SMOKE DETECTORS.
- ⬢ CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO ROUGH-IN.

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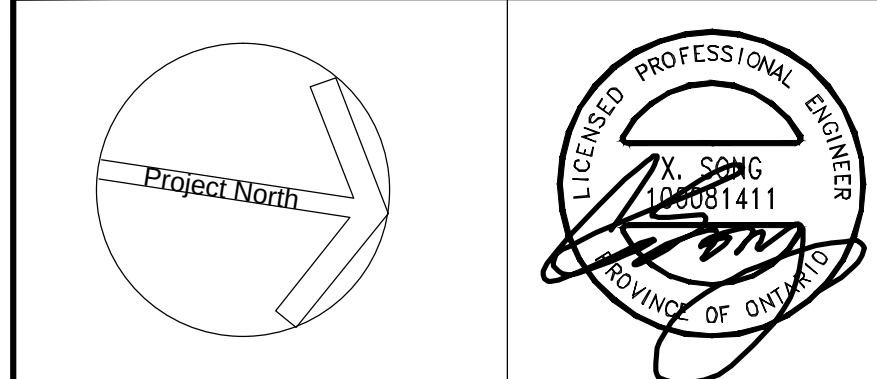
NO.	BY	DESCRIPTION	DATE
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12	CM	ISSUED FOR AS PER SI E-10	2017-09-12
11	CM	ISSUED FOR AS PER SI E-9	2017-08-31
10	CM	ISSUED FOR AS PER SI E-4	2017-08-17
09	CM	ISSUED FOR AS PER SI E-3	2017-08-11
08	CM	ISSUED FOR CONSTRUCTION	2017-08-09
07	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
06	CM	ISSUED FOR PERMIT	2016-12-28
05	CM	REVISED AS PER ADDENDUM E-1	2016-12-12
04	CM	REVISED AS PER SI E-2	2016-10-04
03	CM	REVISED AS PER SI E-1	2016-08-22
02	CM	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

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TITLE 2ND FLOOR PLAN - B ELECTRICAL		
PROJECT PROPOSED RESIDENTIAL DEVELOPMENT 25 BAKER HILL BLVD.		
LOCATION ROYAL PINE HOMES STOUFFVILLE, ONTARIO		
DRAWN CM DATE SEPT. 2015	CHECKED MG PROJECT 14-016	SCALE 1:75 DRAWING E-4B OF 12

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GENERAL KEY NOTES:

- ◆ JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM
- ◆ TOP OF STAIR
- ◆ SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- ◆ DOOR HOLD OPEN DEVICE INTERCONNECTED TO FIRE ALARM SYSTEM TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM INTERCONNECTED TO LOCALIZED SMOKE DETECTORS.
- ◆ AUTO FLUSH TOILET/BIKET REFER TO TOTO TOILET/BIKET SPECIFICATION FOR EXACT LOCATION AND REQUIREMENTS
- ◆ CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO ROUGH-IN.

FOR CONTINUATION REFER TO DWG. E-5B

NO.	BY	DESCRIPTION	DATE
11	CM	ISSUED FOR AS PER SI E-12	2017-10-11
10	CM	ISSUED FOR AS PER SI E-6	2017-08-28
09	CM	ISSUED FOR AS PER SI E-4	2017-08-17
08	CM	ISSUED FOR AS PER SI E-3	2017-08-11
07	CM	ISSUED FOR CONSTRUCTION	2017-08-09
06	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
05	CM	ISSUED FOR PERMIT	2016-12-28
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03	CM	REVISED AS PER SI E-2	2016-10-04
02	CM	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

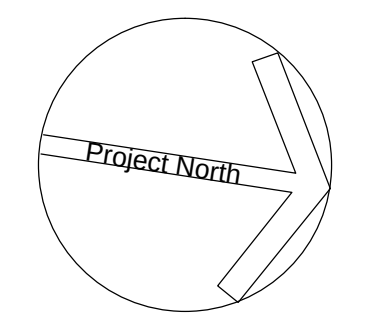
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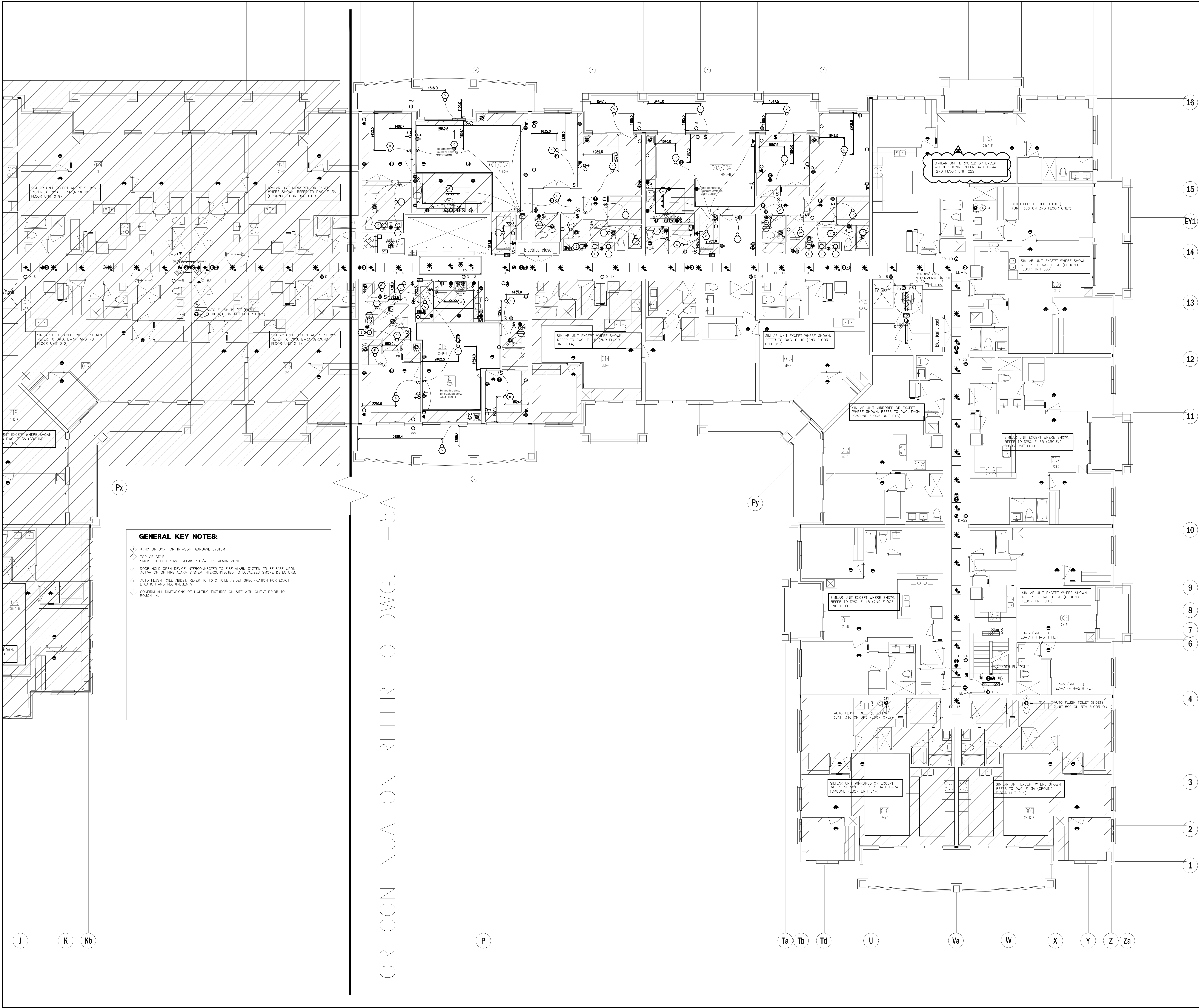
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
**3RD-5TH FLOOR PLANS - A
ELECTRICAL**

PROJECT
**PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.**

**ROYAL PINE HOMES
STOUFFVILLE, ONTARIO**

DRAWN	CM	CHECKED	MG	SCALE	1:75
DATE	SEPT. 2015	PROJECT	14-016	DRAWING	E-5A
				OF	12



GENERAL KEY NOTES:

- ◆ JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM
- ◆ TOP OF STAIR
- ◆ SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- ◆ DOOR HOLD OPEN DEVICE INTERCONNECTED TO FIRE ALARM SYSTEM TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM INTERCONNECTED TO LOCALIZED SMOKE DETECTORS.
- ◆ AUTO FLUSH TOILET/BIDET, REFER TO TOILET/BIDET SPECIFICATION FOR EXACT LOCATION AND REQUIREMENTS.
- ◆ CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO ROUGH-IN.

NO.	BY	DESCRIPTION	DATE
12	CM	ISSUED FOR AS PER SI E-12	2017-10-11
11	CM	ISSUED FOR AS PER SI E-10	2017-09-12
10	CM	ISSUED FOR AS PER SI E-9	2017-08-31
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07	CM	ISSUED FOR AS PER SI E-3	2017-08-11
06	CM	ISSUED FOR CONSTRUCTION	2017-08-09
05	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
04	CM	ISSUED FOR PERMIT	2016-12-28
03	CM	REVISED AS PER SI E-2	2016-10-04
02	CM	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

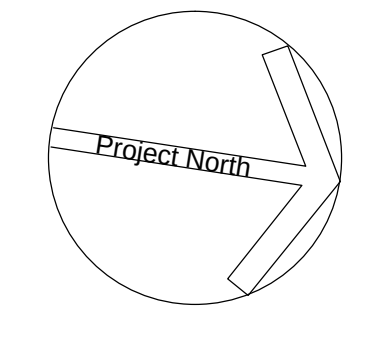
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TITLE
3RD-5TH FLOOR PLANS - B
ELECTRICAL

PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.

ROYAL PINE HOMES
STOUFFVILLE, ONTARIO

DRAWN	CHECKED	SCALE
CM	MG	1:75

DATE	PROJECT	DRAWING
SEPT. 2015	14-016	E-5B
		OF 12

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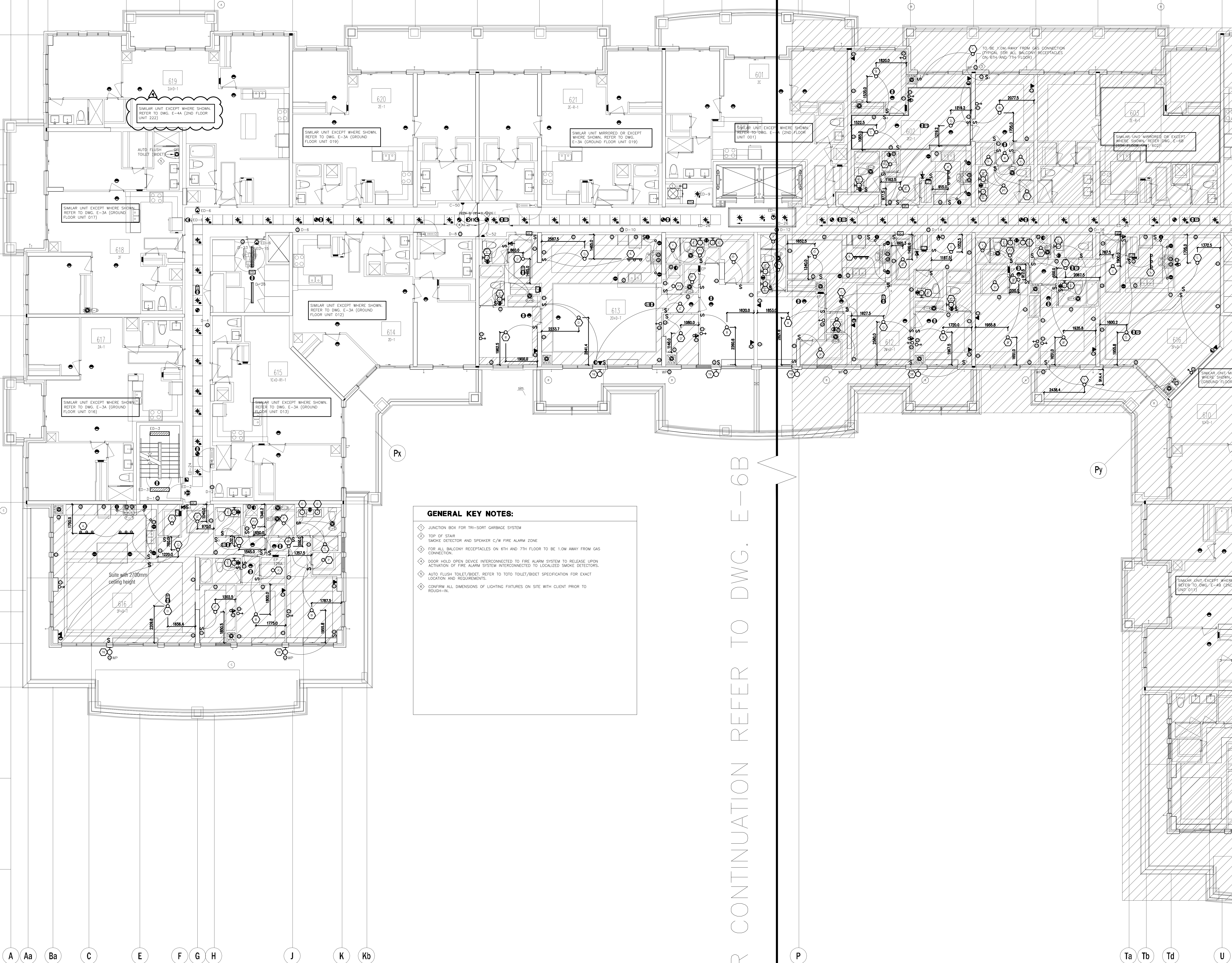
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GENERAL KEY NOTES:

- ◆ JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM
- ◆ TOP OF STAIR
- ◆ SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- ◆ FOR ALL BALCONY RECEPTACLES ON 6TH AND 7TH FLOOR TO BE 1.0M AWAY FROM GAS CONNECTION
- ◆ DOOR HOLD OPEN DEVICE INTERCONNECTED TO FIRE ALARM SYSTEM TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM INTERCONNECTED TO LOCALIZED SMOKE DETECTORS
- ◆ AUTO FLUSH TOILET/BIDET, REFER TO TOILET/BIDET SPECIFICATION FOR EXACT LOCATION AND REQUIREMENTS
- ◆ CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO ROUGH-IN

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08	CM	ISSUED FOR AS PER SI E-10	2017-09-12
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06	CM	ISSUED FOR CONSTRUCTION	2017-08-09
05	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
04	CM	ISSUED FOR PERMIT	2016-12-28
03	CM	REVISED AS PER ADDENDUM E-1	2016-12-12
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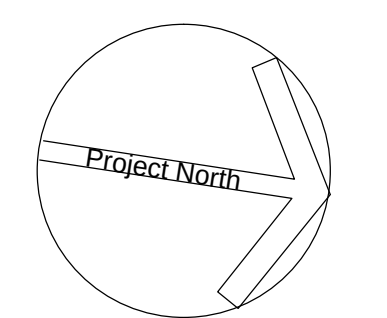
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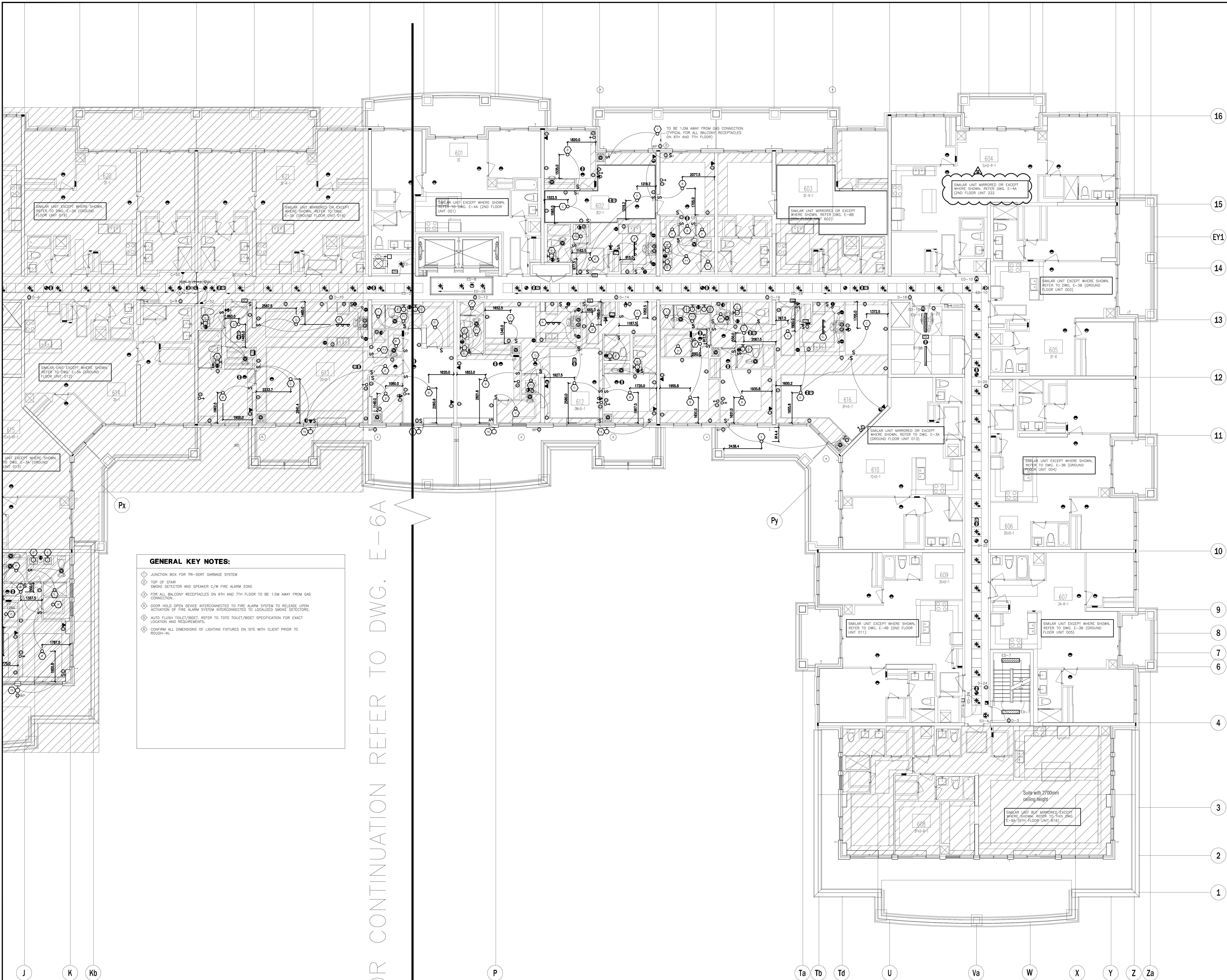
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
**6TH FLOOR PLAN - A
ELECTRICAL**

PROJECT
**PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.**

**ROYAL PINE HOMES
STOUFFVILLE, ONTARIO**

DRAWN CM	CHECKED MG	SCALE 1:75
DATE SEPT. 2015	PROJECT 14-016	DRAWING E-6A OF 12



GENERAL KEY NOTES:

- ◇ JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM
- ◇ TOP OF STAIR
- ◇ SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- ◇ FOR ALL BALCONY RECEPTACLES ON 6TH AND 7TH FLOOR TO BE 1.0M AWAY FROM GAS CONNECTION
- ◇ DOOR HOLD OPEN DEVICE INTERCONNECTED TO FIRE ALARM SYSTEM TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM INTERCONNECTED TO LOCALIZED SMOKE DETECTORS.
- ◇ AUTO FLUSH TOILET/BIDET REFER TO TOTO TOILET/BIDET SPECIFICATION FOR EXACT LOCATION AND REQUIREMENTS.
- ◇ CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO ROUGH-IN.

NO.	BY	DESCRIPTION	DATE
11	CM	ISSUED FOR AS PER SI E-12	2017-10-11
10	CM	ISSUED FOR AS PER SI E-10	2017-09-12
09	CM	ISSUED FOR AS PER SI E-9	2017-08-31
08	CM	ISSUED FOR AS PER SI E-4	2017-08-17
07	CM	ISSUED FOR AS PER SI E-3	2017-08-11
06	CM	ISSUED FOR CONSTRUCTION	2017-08-09
05	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
04	CM	ISSUED FOR PERMIT	2016-12-28
03	CM	REVISED AS PER ADDENDUM E-1	2016-12-12
02	CM	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

REVISIONS

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United Engineering Inc.
Mechanical Electrical Consulting Engineers
3345 Reele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE: **6TH FLOOR PLAN - B
ELECTRICAL**

PROJECT: **PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.**

**ROYAL PINE HOMES
STOUFFVILLE, ONTARIO**

DRAWN	CHECKED	SCALE
CM	MG	1:75
DATE	PROJECT	DRAWING
SEPT. 2015	14-016	E-6B
		OF 12

16

15

EY1

14

13

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Aa

Ba

C

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F

G

H

J

K

Kb

P

Ta

Tb

Td

U

FOR CONTINUATION REFER TO DWG. E-7B

GENERAL KEY NOTES:

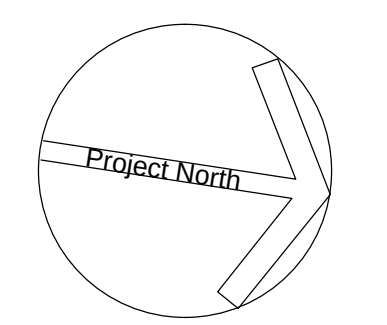
- ◇ JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM
- ◇ TOP OF STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- ◇ FOR ALL BALCONY RECEPTACLES ON 6TH AND 7TH FLOOR TO BE 1.0M AWAY FROM GAS CONNECTION
- ◇ DOOR HOLD OPEN DEVICE INTERCONNECTED TO FIRE ALARM SYSTEM TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM INTERCONNECTED TO LOCALIZED SMOKE DETECTORS
- ◇ CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO ROUGH-IN

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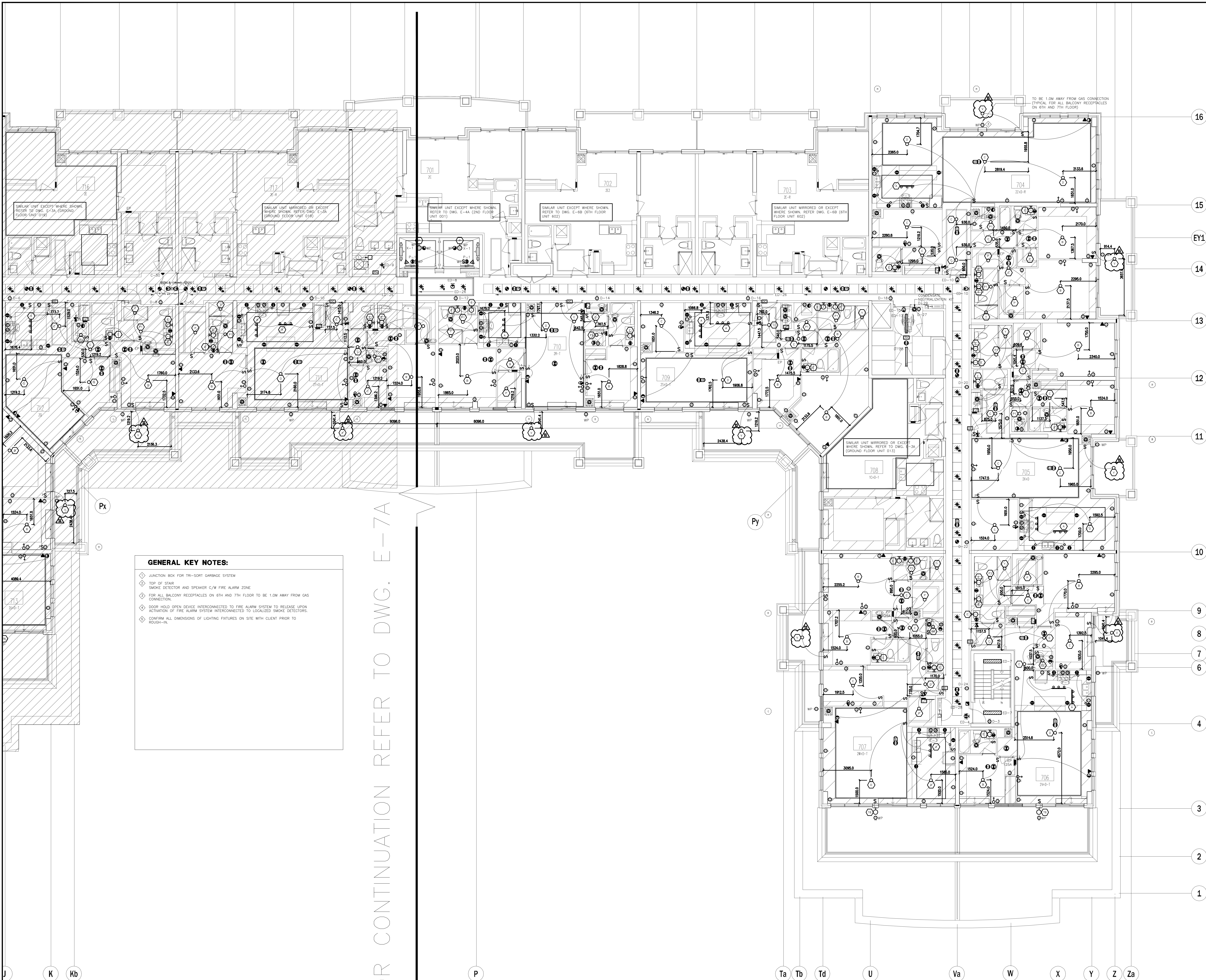
United Engineering Inc.
Mechanical Electrical Consulting Engineers
3345 Reele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
**7TH FLOOR PLAN - A
ELECTRICAL**

PROJECT
**PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.**

**ROYAL PINE HOMES
STOUFFVILLE, ONTARIO**

DRAWN CM	CHECKED MG	SCALE 1:75
DATE SEPT. 2015	PROJECT 14-016	DRAWING E-7A
		OF 12



GENERAL KEY NOTES:

- ◆ JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM
- ◆ TOP OF STAIR
- ◆ SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- ◆ FOR ALL BALCONY RECEPTACLES ON 6TH AND 7TH FLOOR TO BE 1.0M AWAY FROM GAS CONNECTION.
- ◆ DOOR HOLD OPEN DEVICE INTERCONNECTED TO FIRE ALARM SYSTEM TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM INTERCONNECTED TO LOCALIZED SMOKE DETECTORS.
- ◆ CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO ROUGH-IN.

FOR CONTINUATION REFER TO DWG. E-7A

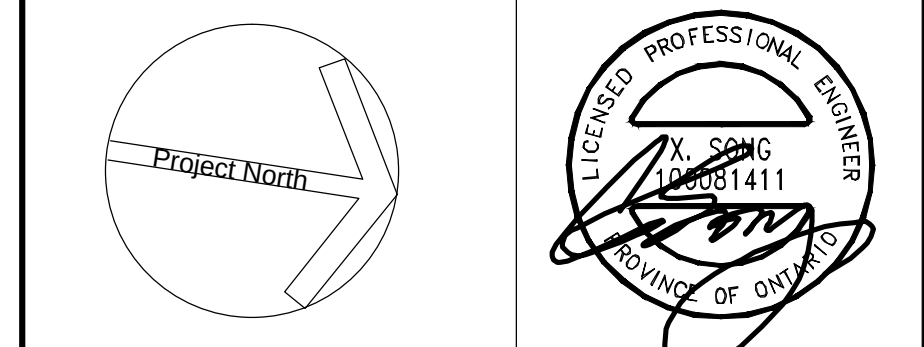
NO.	BY	DESCRIPTION	DATE
10	CM	ISSUED FOR AS PER SI E-10	2017-09-12
09	CM	ISSUED FOR AS PER SI E-4	2017-08-17
08	CM	ISSUED FOR AS PER SI E-3	2017-08-11
07	CM	ISSUED FOR CONSTRUCTION	2017-08-09
06	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
05	CM	ISSUED FOR PERMIT	2016-12-28
04	CM	REVISED AS PER ADD E-1	2016-12-12
03	CM	REVISED AS PER SI E-2	2016-10-04
02	CM	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

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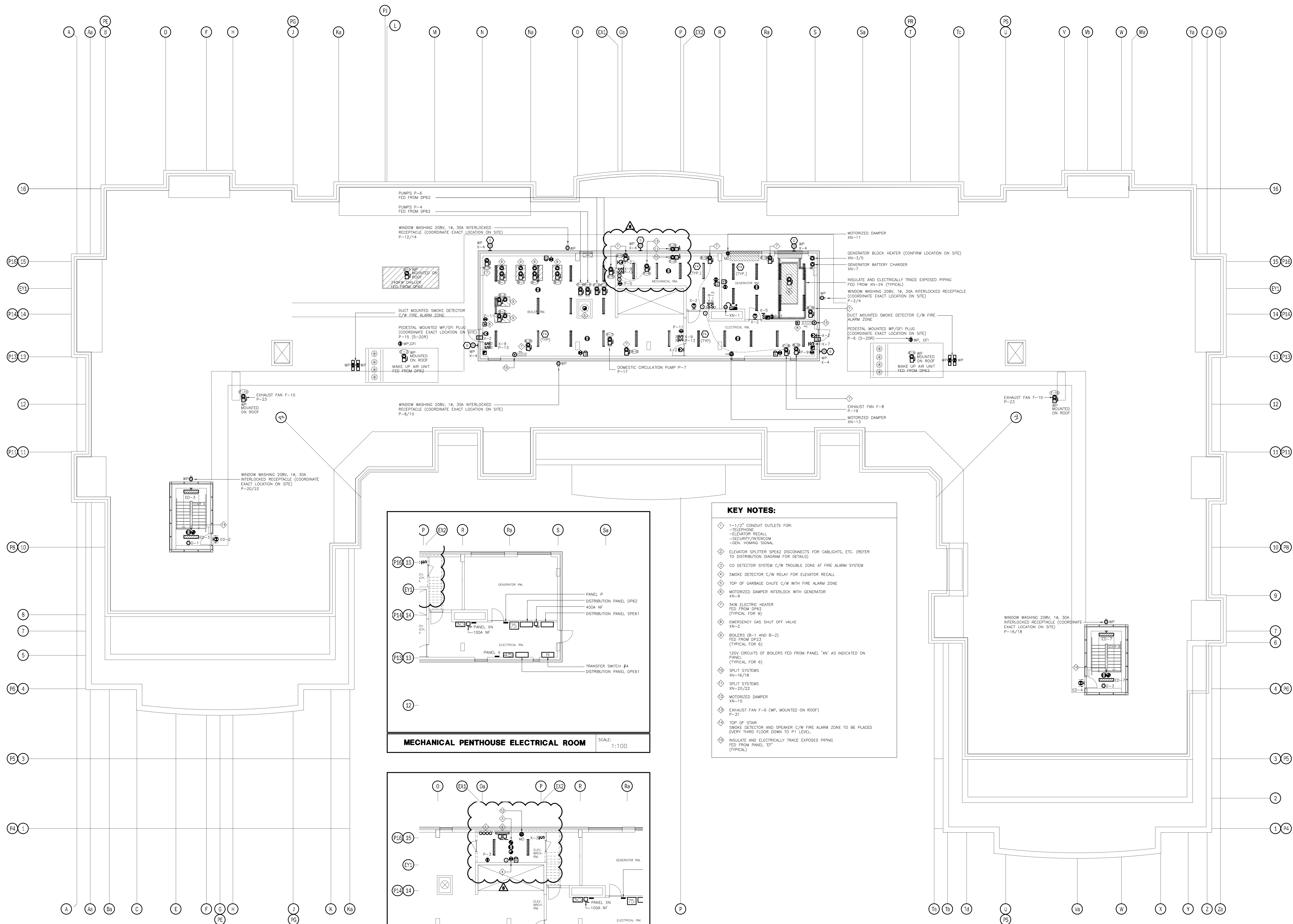
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Mechanical Electrical Consulting Engineers
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Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE		7TH FLOOR PLAN - B ELECTRICAL			
PROJECT					
PROPOSED RESIDENTIAL DEVELOPMENT 25 BAKER HILL BLVD.					
ROYAL PINE HOMES STOUFFVILLE, ONTARIO					
DRAWN		CHECKED		SCALE	
CM		MG		1:75	
DATE		PROJECT		DRAWING	
SEPT. 2015		14-016		E-7B	
				OF	
				12	



KEY NOTES:

- 1-1/2" CONDUIT OUTLETS FOR:
 - TELEPHONE
 - ELEVATOR RECALL
 - SECURITY/INTERCOM
 - GEN. HOUSING SIGNAL
- ELEVATOR SPLITTER SPEK2 DISCONNECTS FOR CABLIGHTS, ETC. (REFER TO DISTRIBUTION DIAGRAM FOR DETAILS)
- CO DETECTOR SYSTEM C/W TROUBLE ZONE AT FIRE ALARM SYSTEM
- SMOKE DETECTOR C/W RELAY FOR ELEVATOR RECALL
- TOP OF GARBAGE CHUTE C/W WITH FIRE ALARM ZONE
- MOTORIZED DAMPER INTERLOCK WITH GENERATOR
- SHW ELECTRIC HEATER FED FROM DP62 (TYPICAL FOR 9)
- EMERGENCY GAS SHUT OFF VALVE
- BOILERS (B-1 AND B-2) FED FROM DP23 (TYPICAL FOR 6)
- 120V CIRCUITS OF BOILERS FED FROM PANEL "XN" AS INDICATED ON PANEL (TYPICAL FOR 6)
- SPLIT SYSTEMS
- SPLIT SYSTEMS
- MOTORIZED DAMPER
- EXHAUST FAN F-6 (WP, MOUNTED ON ROOF)
- TOP OF STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE TO BE PLACED EVERY THIRD FLOOR DOWN TO P1 LEVEL.
- INSULATE AND ELECTRICALLY TRACE EXPOSED PIPING FED FROM PANEL "EF" (TYPICAL)

MECHANICAL PENTHOUSE ELECTRICAL ROOM

SCALE: 1:100

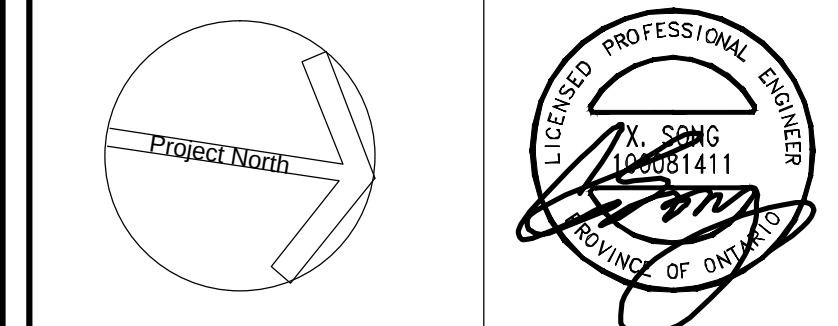
ELEVATOR MACHINE ROOM

SCALE: 1:100

NO.	BY	DESCRIPTION	DATE
06	CM	REVISED AS PER SI E-3	2017-08-11
05	CM	ISSUED FOR CONSTRUCTION	2017-08-09
04	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
03	CM	ISSUED FOR PERMIT	2016-12-28
02	CM	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

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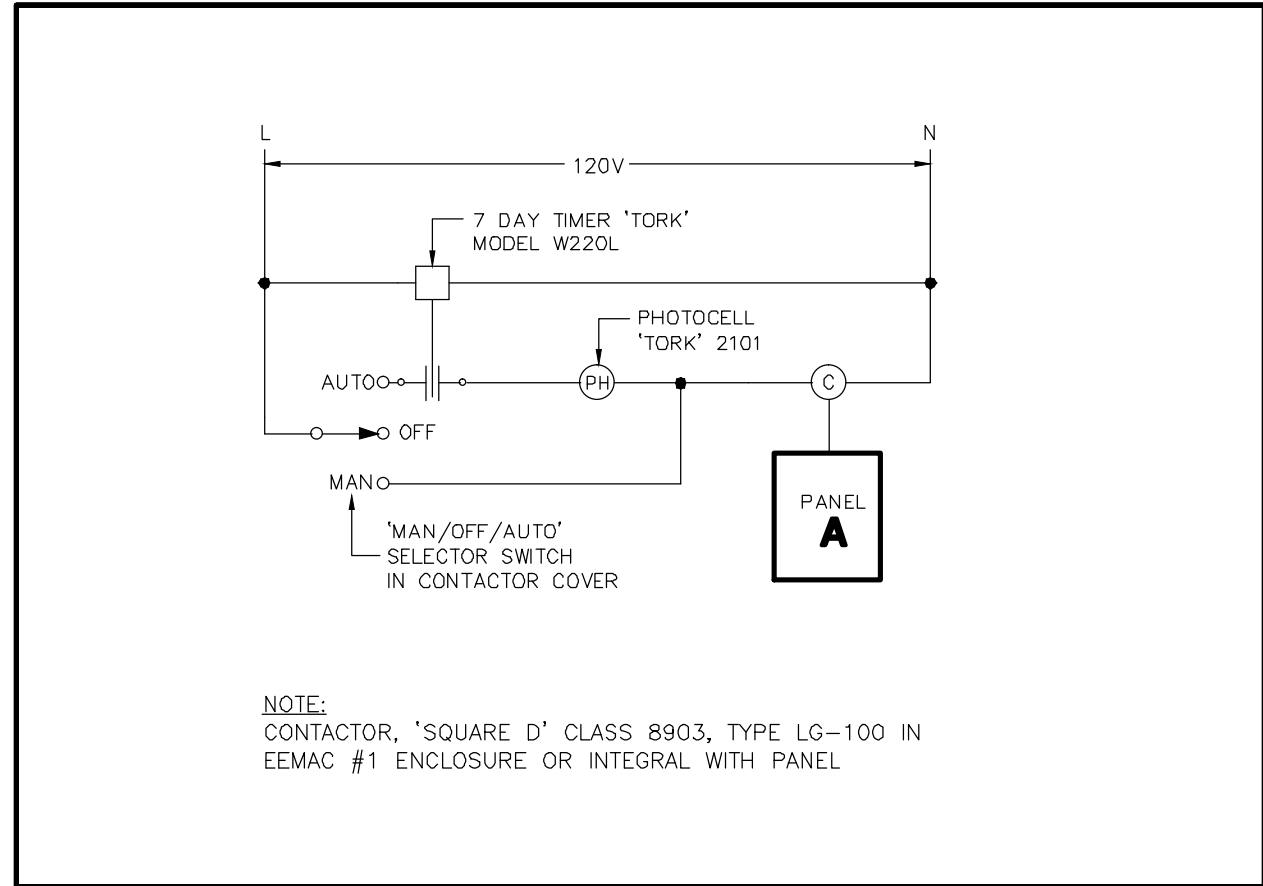
United Engineering Inc.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 598 1999, Fax: (416) 598 1935

MECHANICAL PENTHOUSE ELECTRICAL

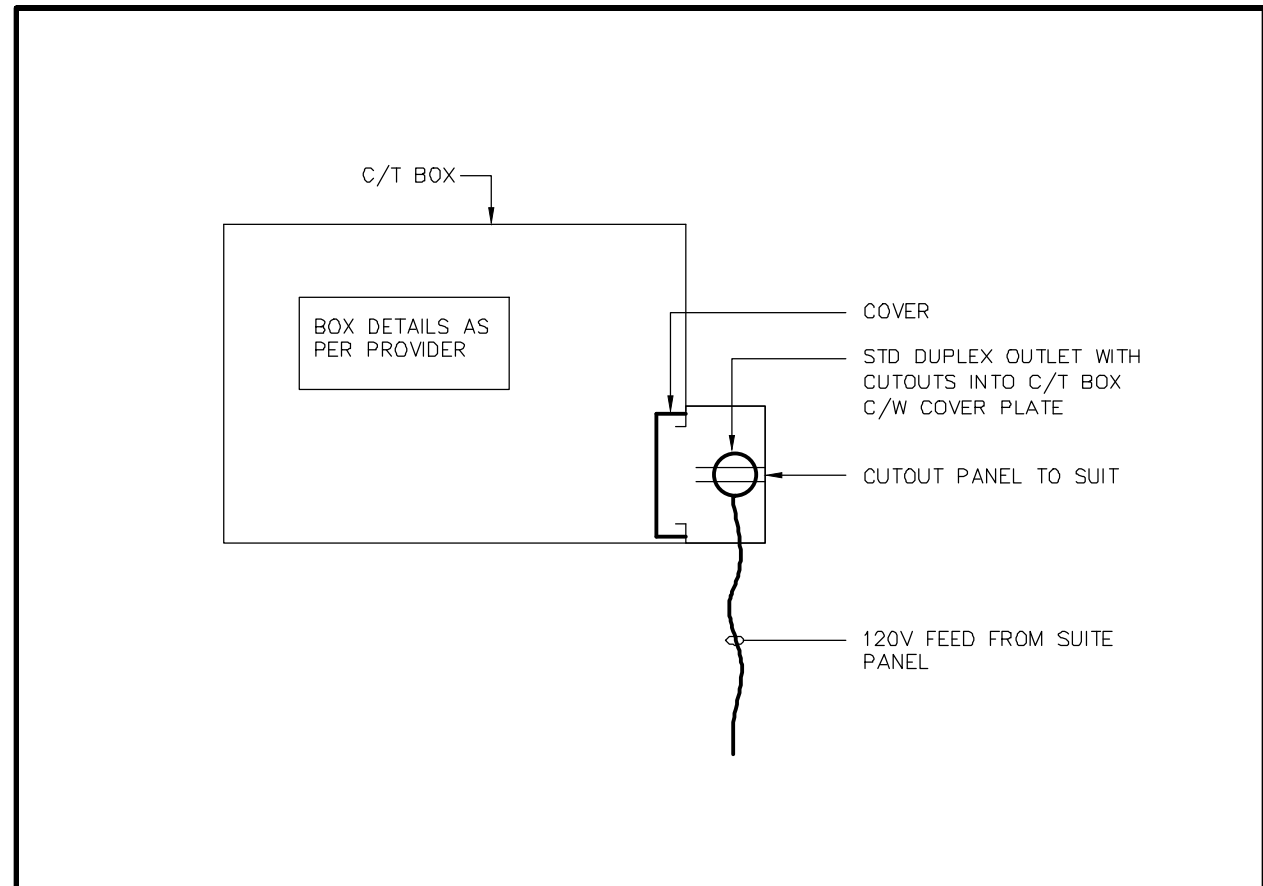
PROJECT
**PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.**

**ROYAL PINE HOMES
STOUFFVILLE, ONTARIO**

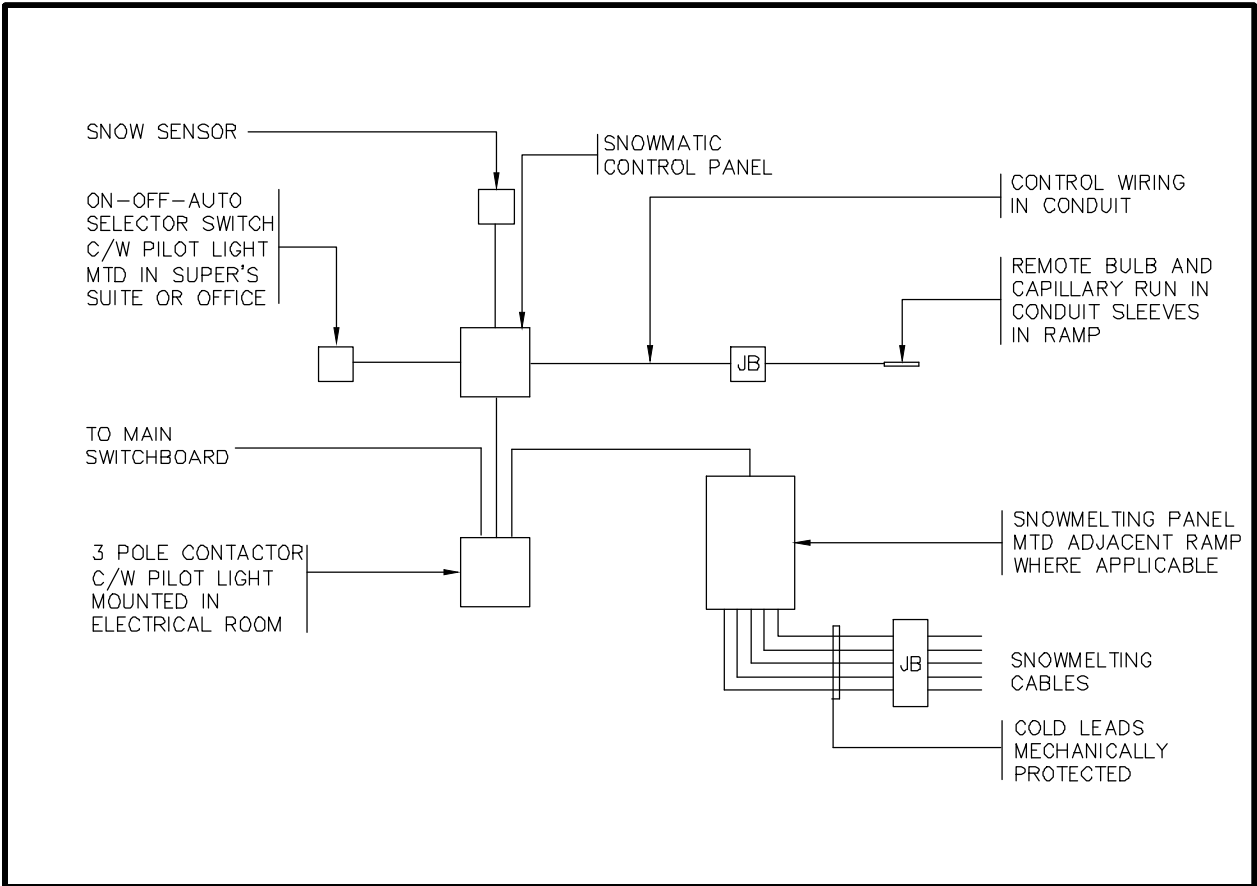
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DATE	SEPT. 2015	PROJECT	14-016	DRAWING	E-8
				OF	12



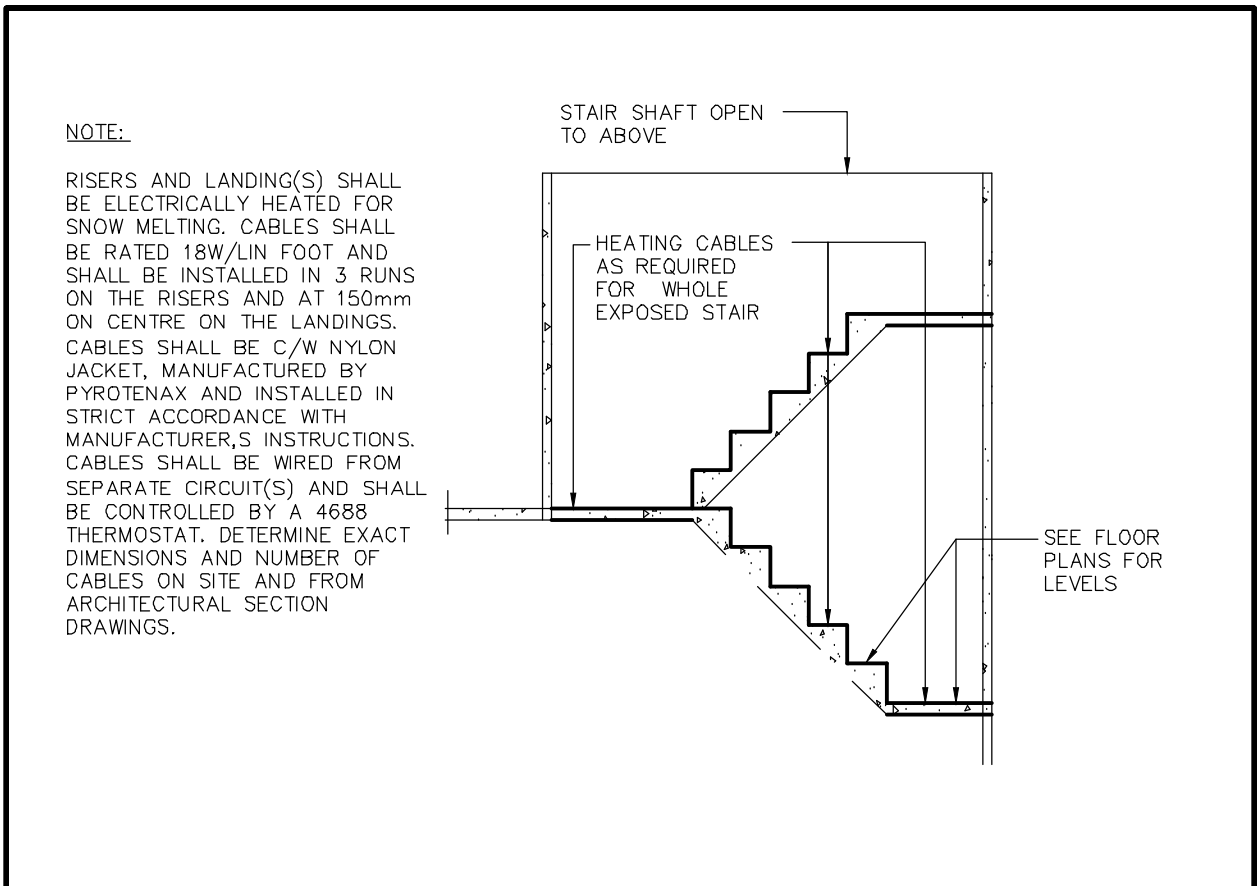
SITE PLAN LIGHTING CONTROL SCALE: N.T.S.



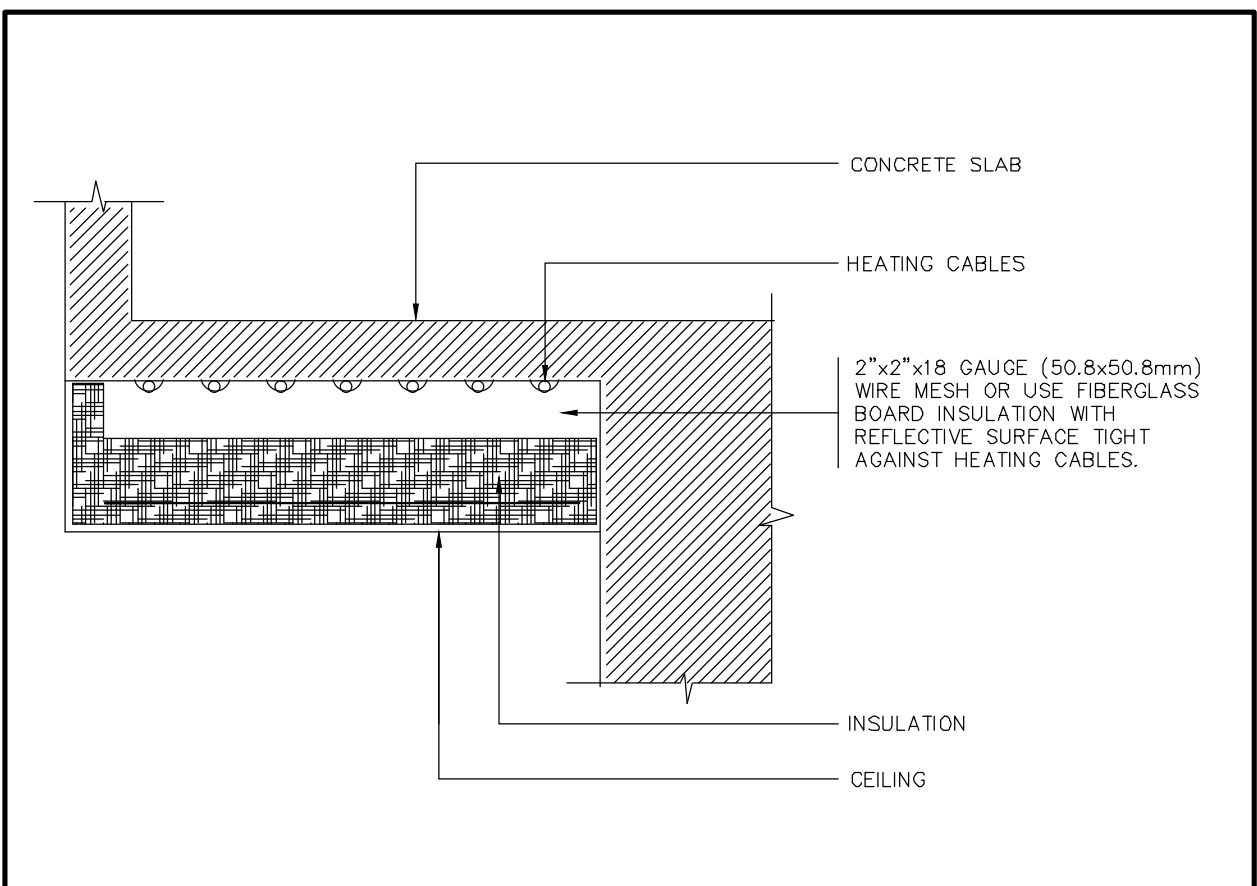
C/T BOX IN SUITE DETAIL SCALE: N.T.S.



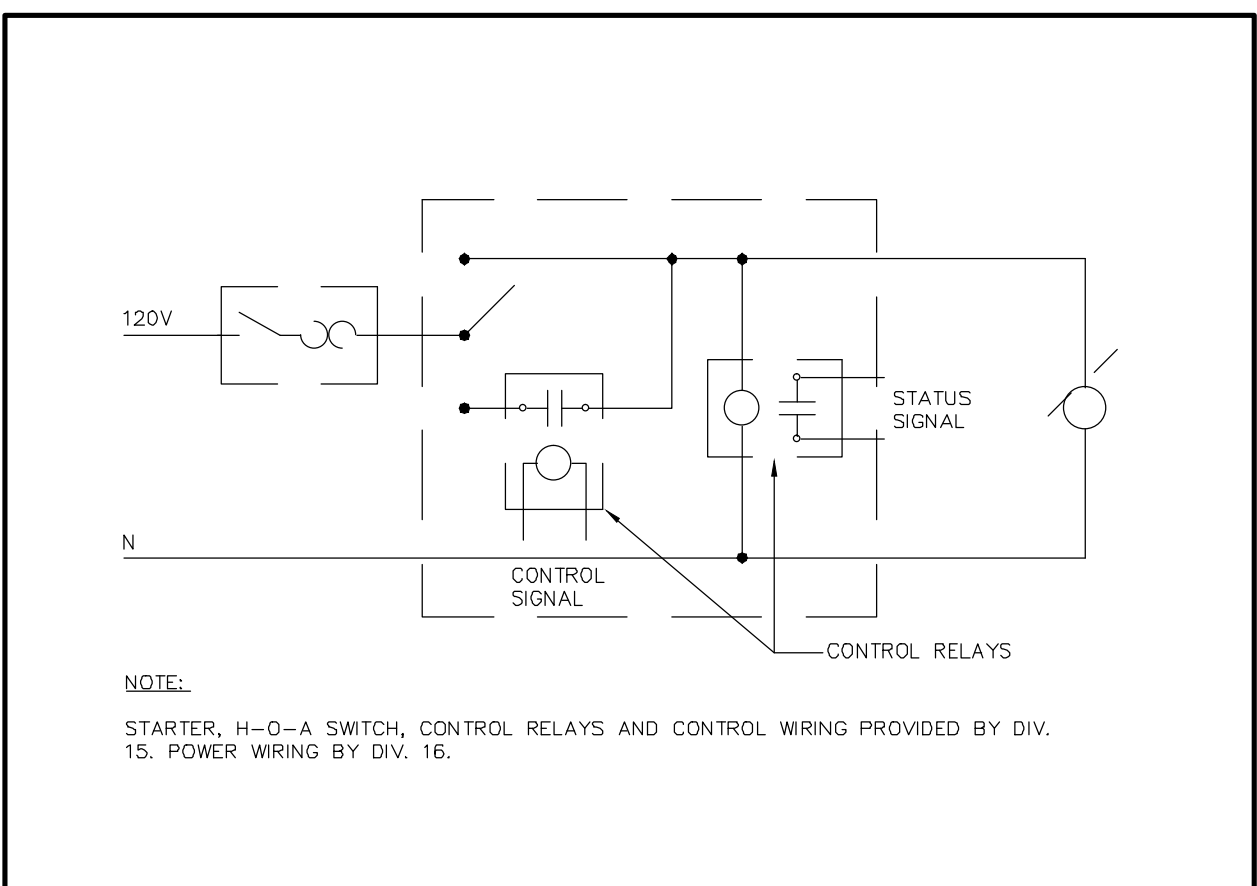
SNOW MELTING CONTROL DIAGRAM SCALE: N.T.S.



EXPOSED STAIRWELL SNOW MELTING (TYP.) SCALE: N.T.S.



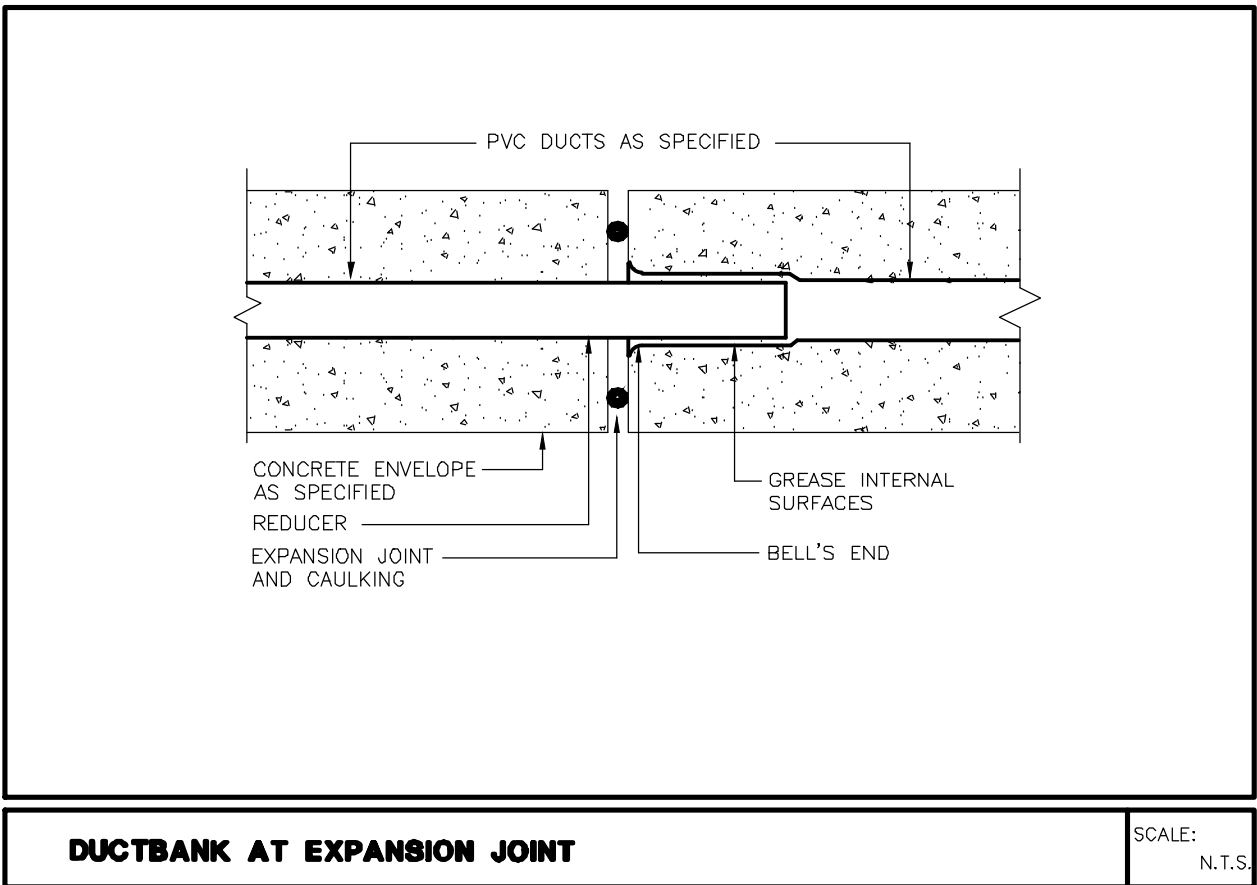
FLOOR SLAB WARMING DETAIL SCALE: N.T.S.



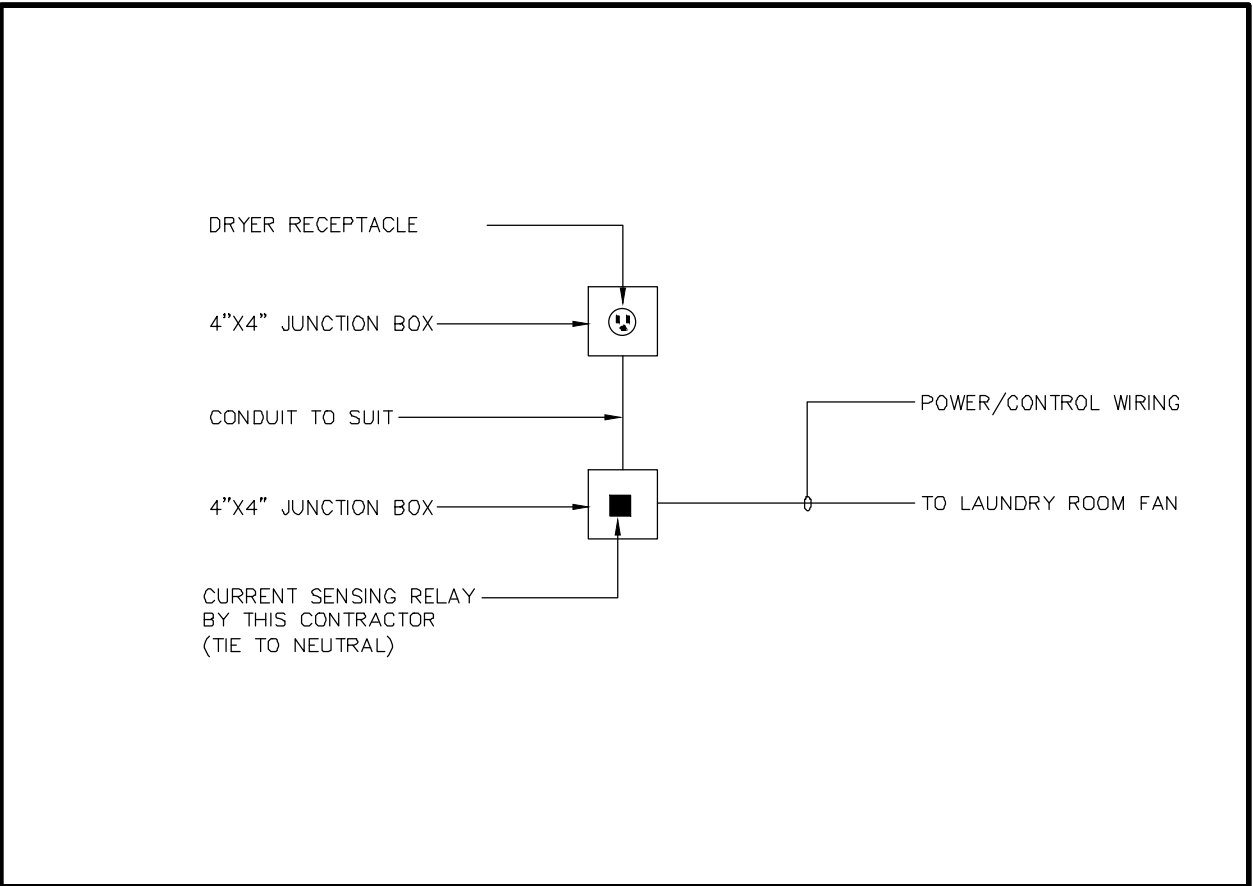
MANUAL STARTER SCHEMATIC SCALE: N.T.S.

ELECTRIC HEATER SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURE/MODULE	REMARKS
A	BASEBOARD HEATER	STELPRO-B	1. ALL HEATERS C/W BUILT IN START UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
B	FORCE FLOW HEATER	STELPRO-WF	
C	UNIT HEATER	STELPRO-SHU	2. WATAGE INDICATED ON THE DRAWINGS.
D	CEILING FLOW HEATER	STELPRO-DRI	
E	KICK SPACE HEATER	STELPRO-CH	3. VOLTAGE TO SUIT SOURCE PANEL.
F	PATIO DOOR HEATER	STELPRO-RDH	
G	DRIFT BARRIER	STELPRO-DB	
H	CONVECTION HEATER	STELPRO-SL	

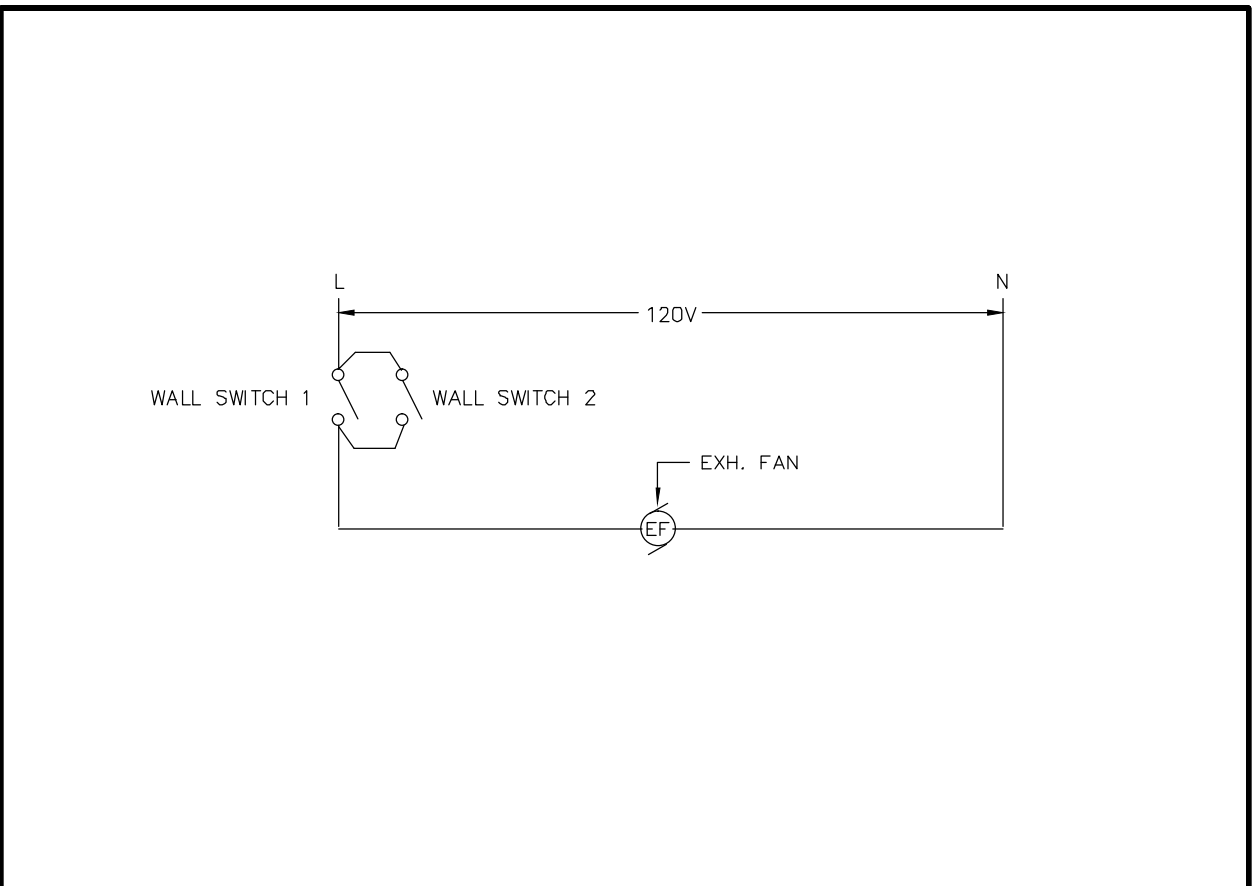
ELECTRIC HEATER SCHEDULE SCALE: N.T.S.



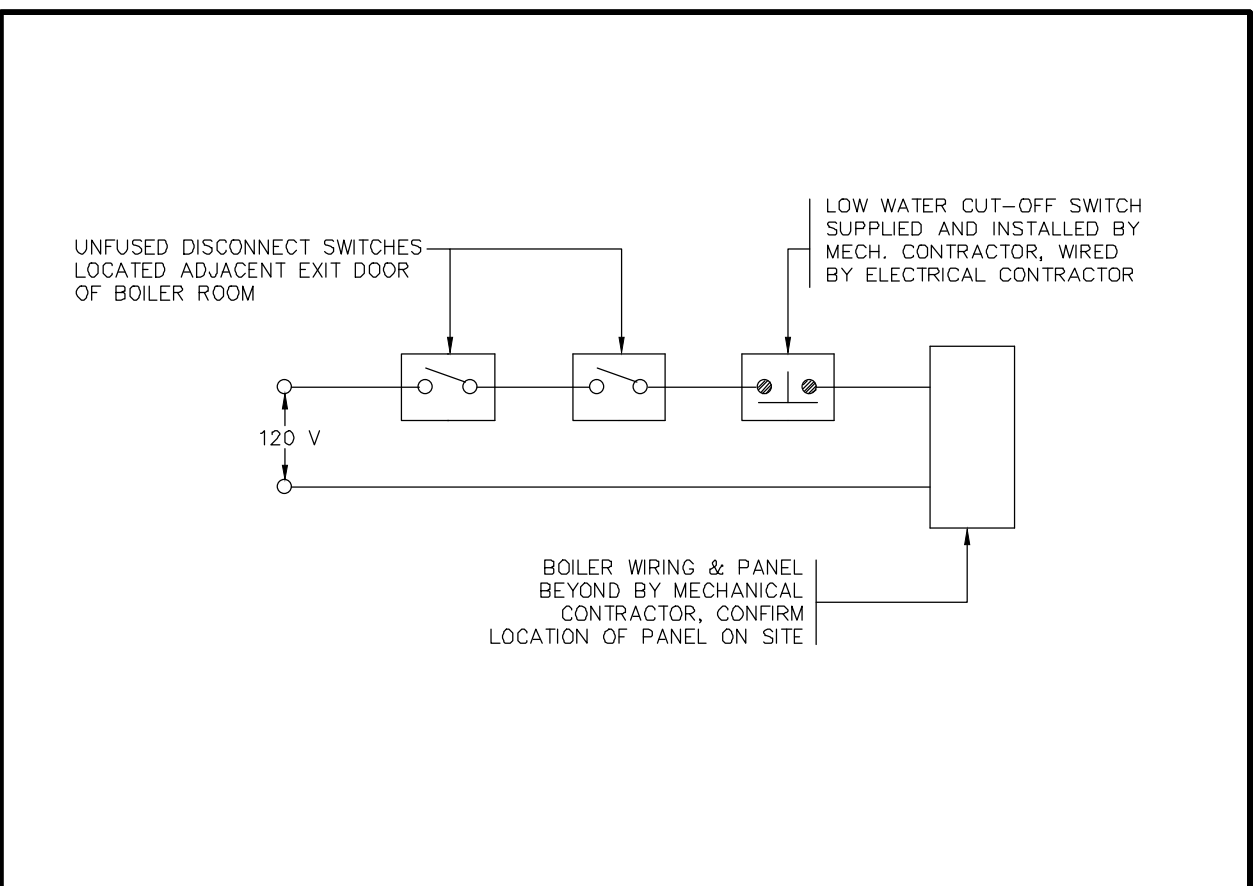
DUCTBANK AT EXPANSION JOINT SCALE: N.T.S.



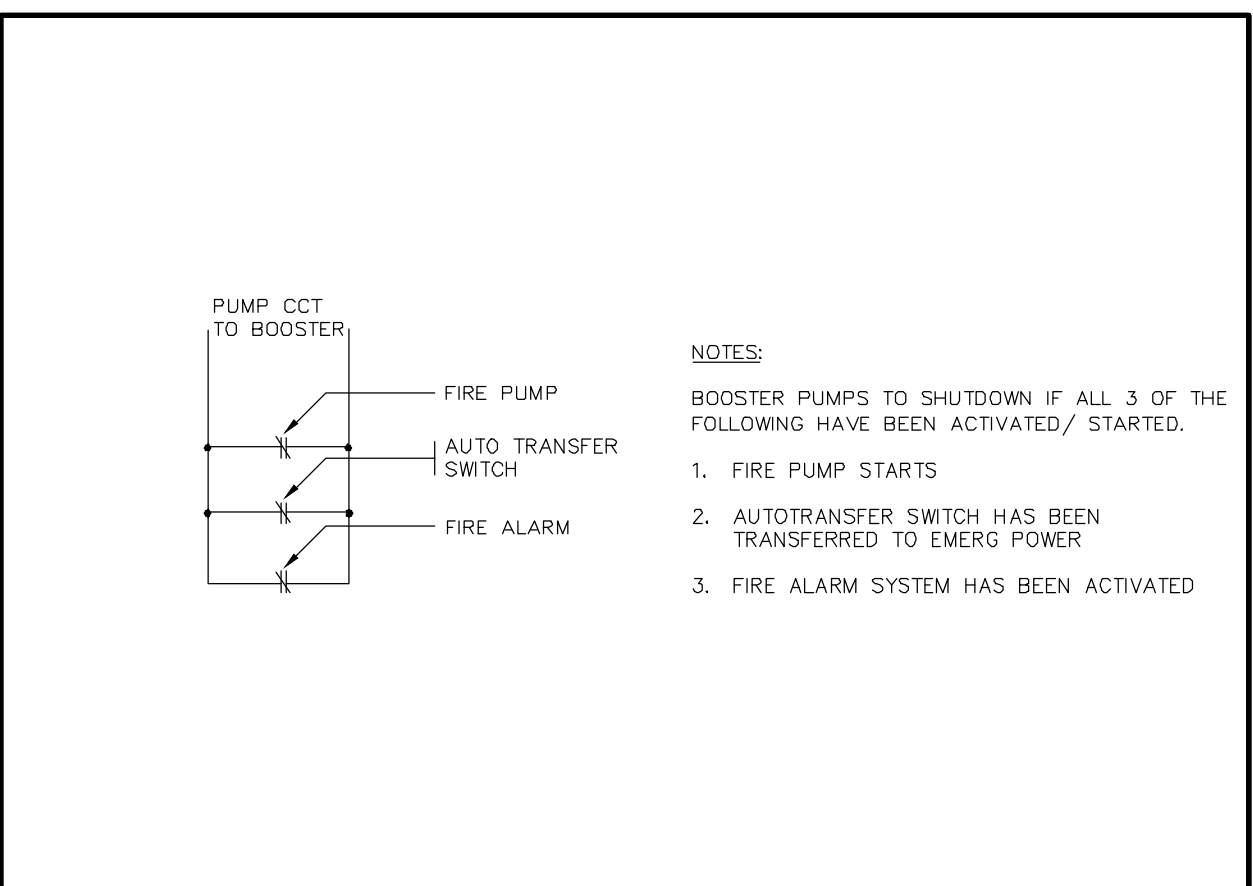
TYPICAL SUITE LAUNDRY EXHAUST FAN SCALE: N.T.S.



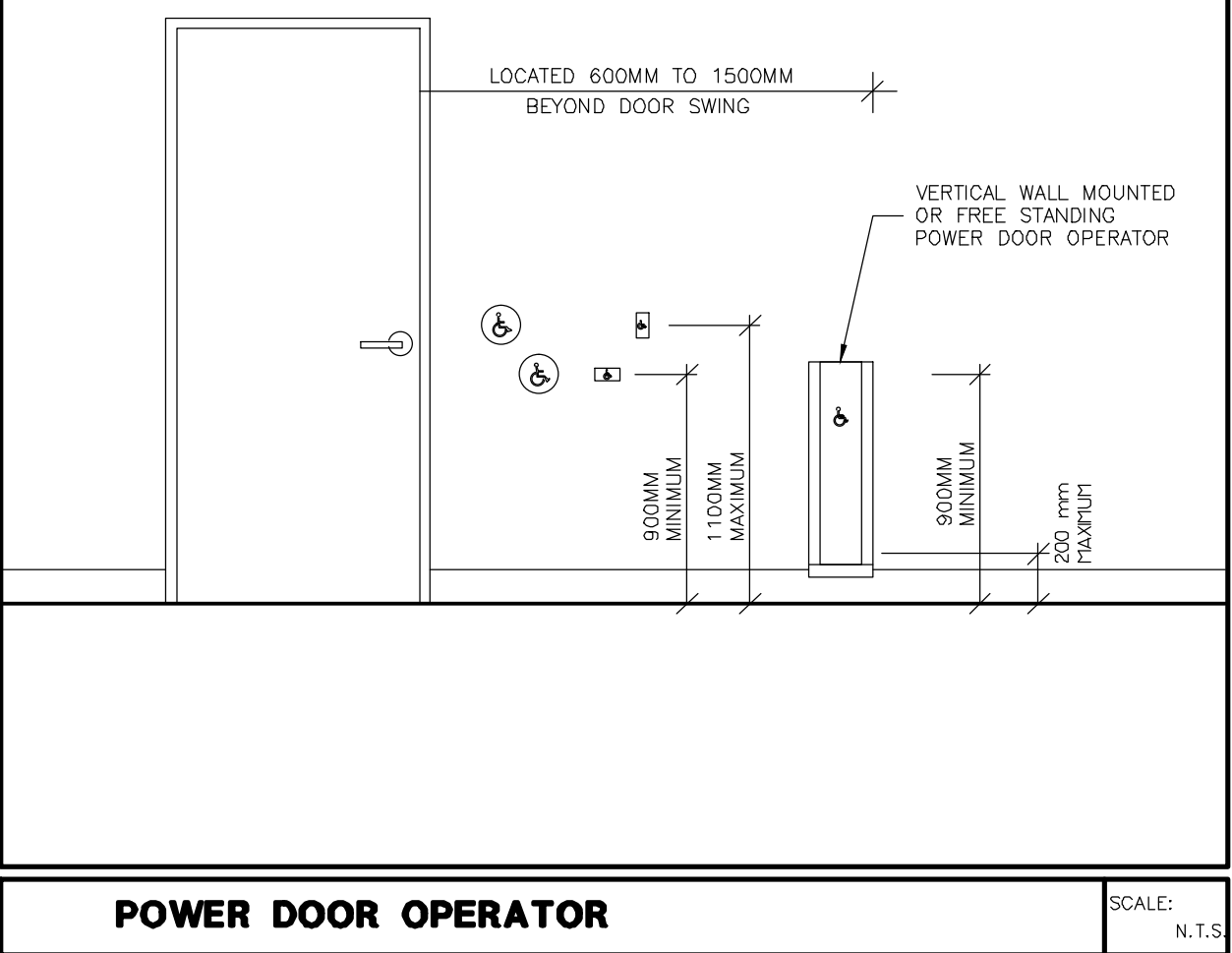
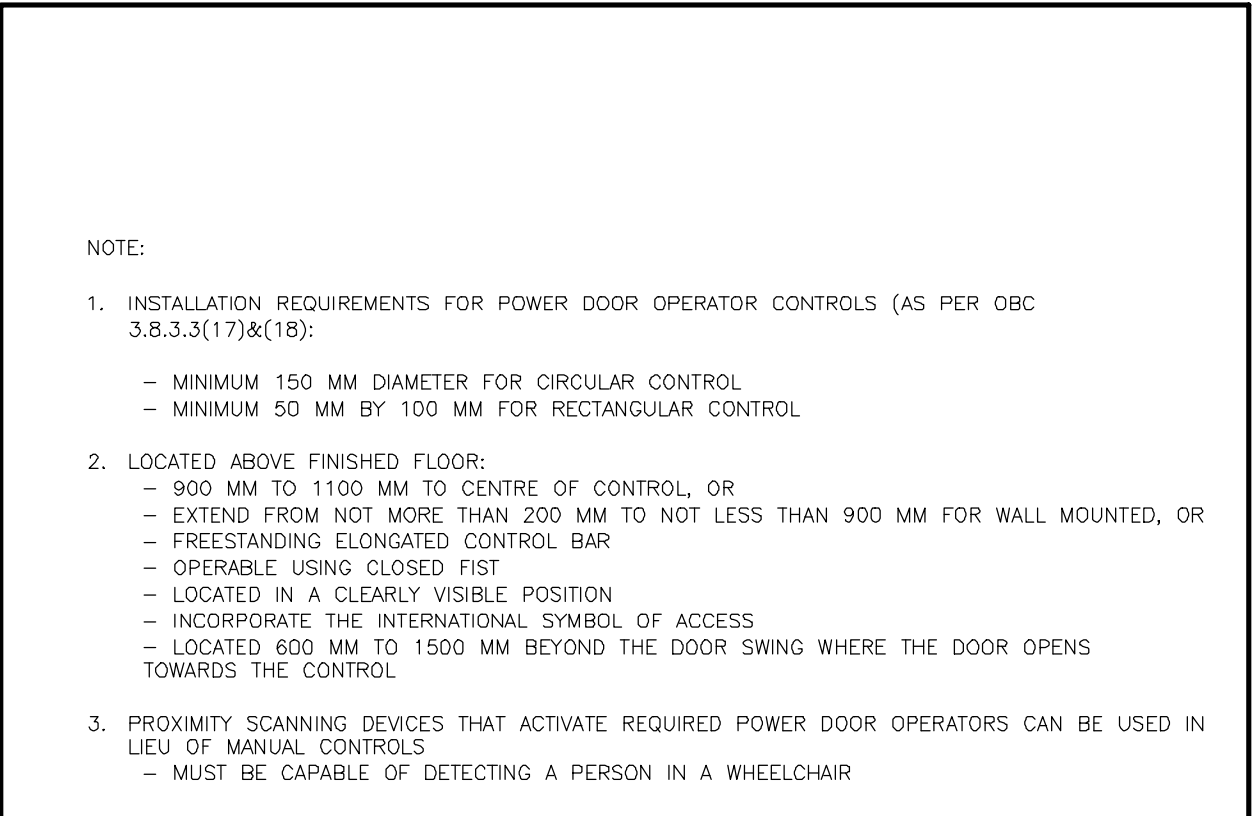
EXHAUST FAN CONTROL FROM TWO LOCATIONS SCALE: N.T.S.



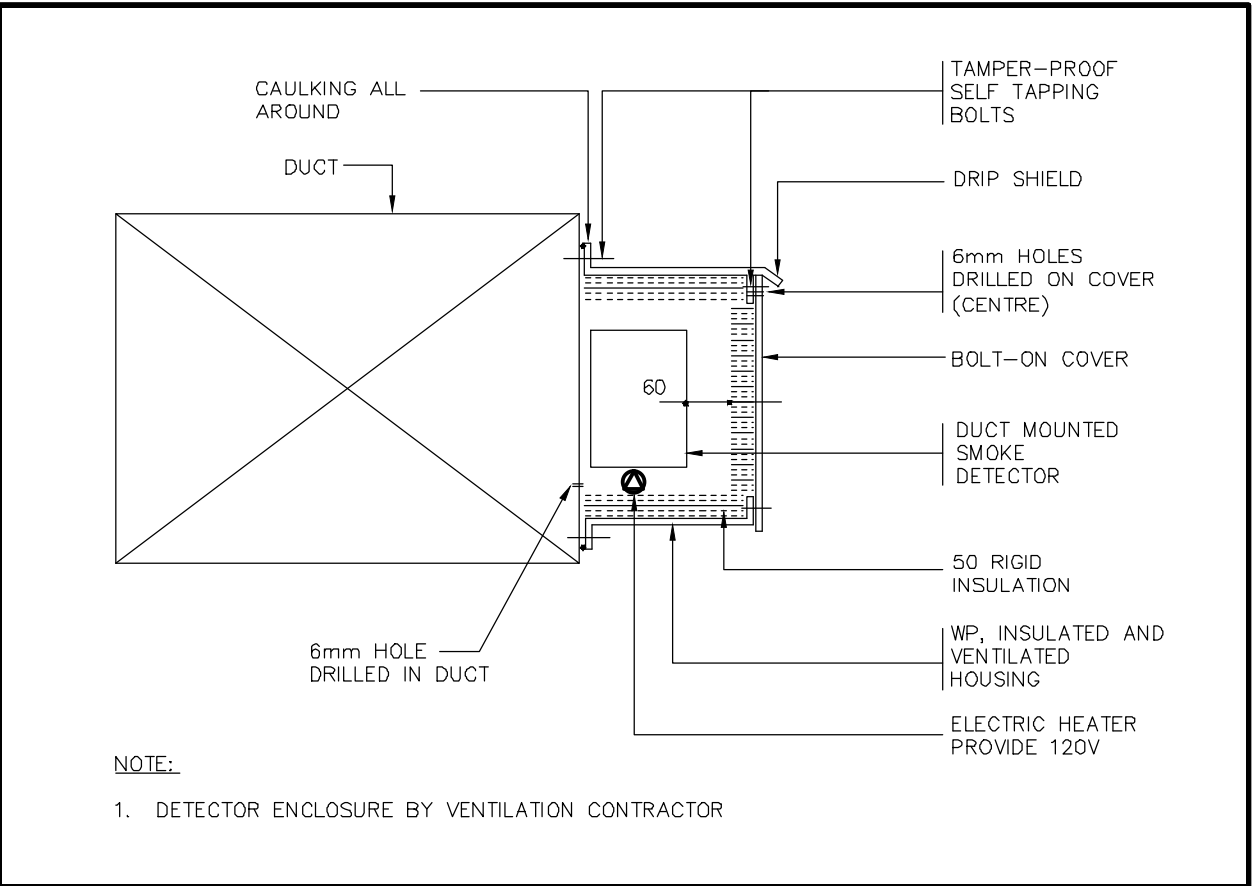
BOILER CONTROL SCHEMATIC SCALE: N.T.S.



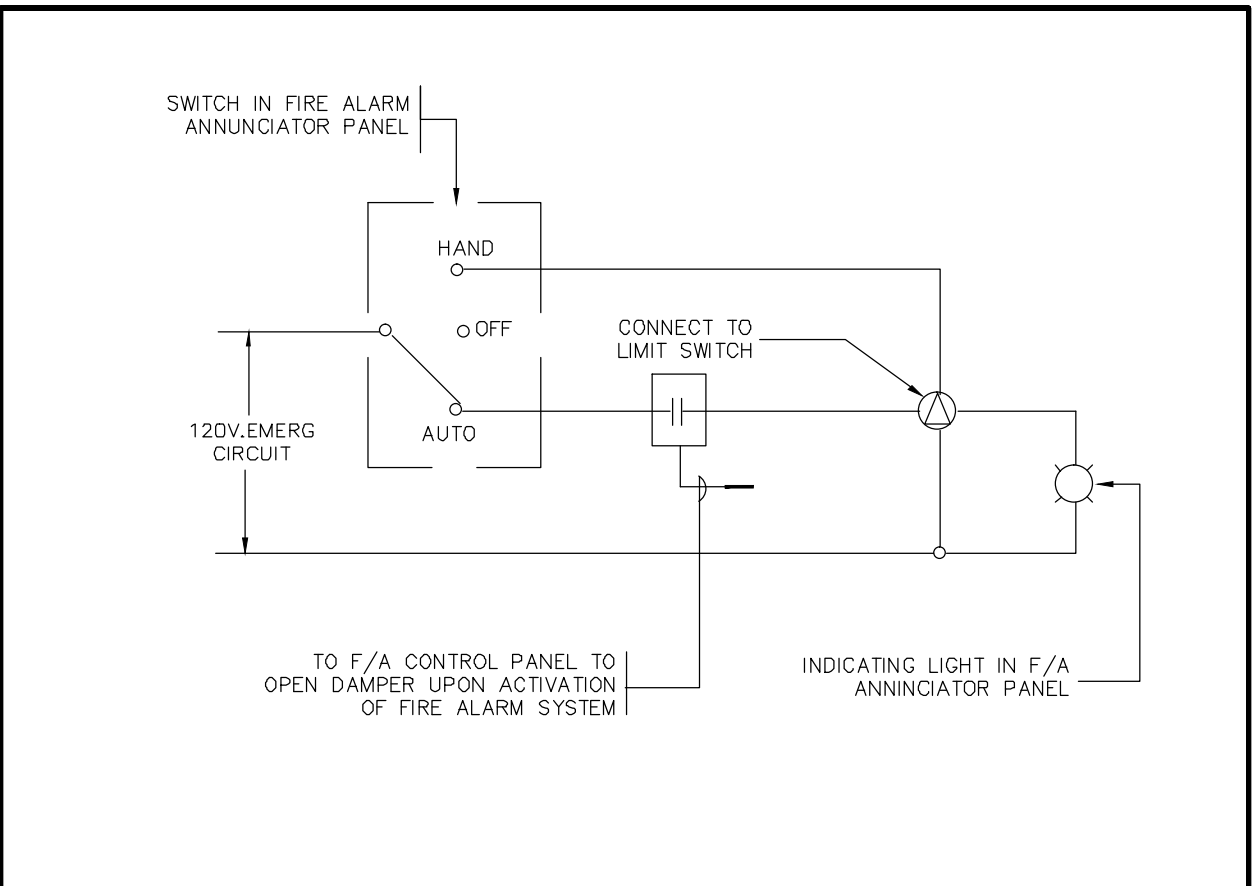
BOOSTER PUMP CONTROL SCALE: N.T.S.



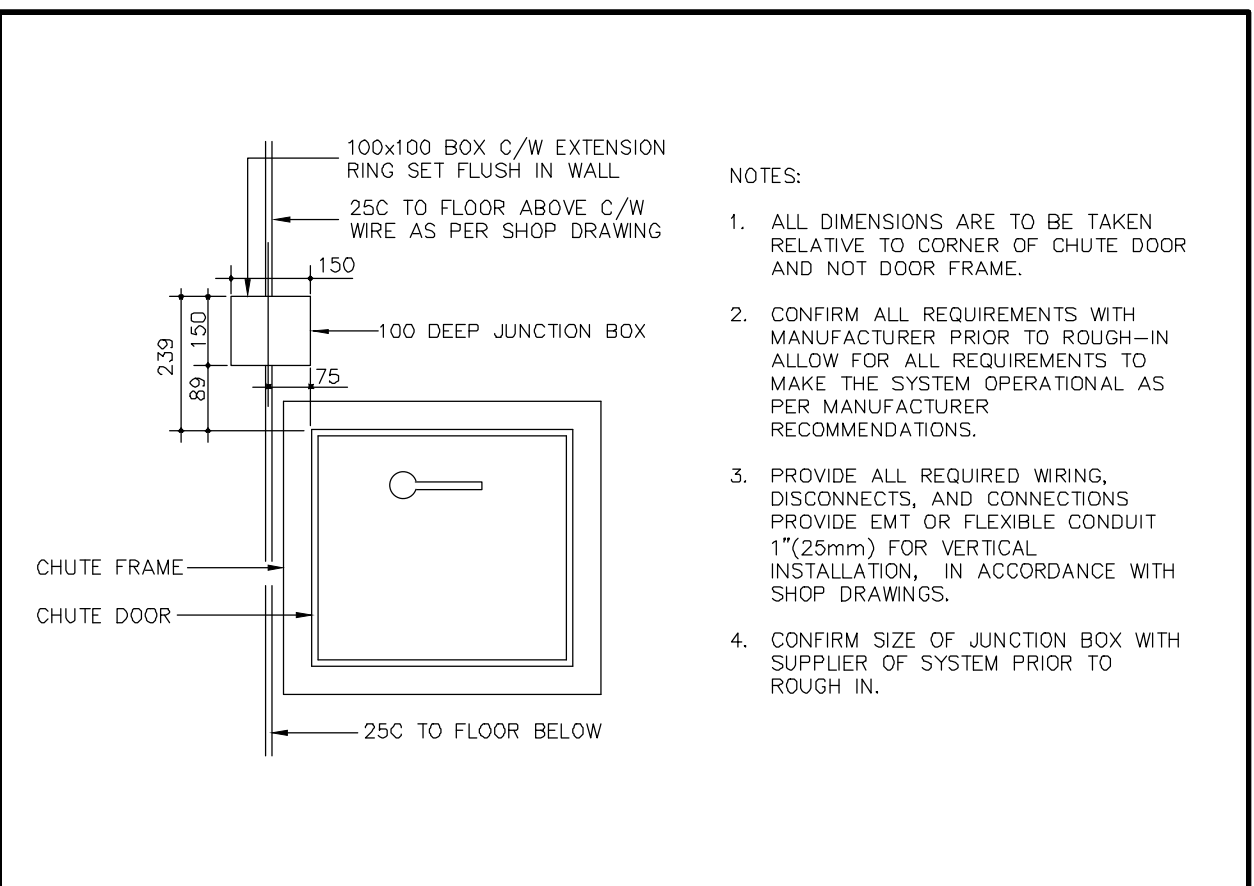
POWER DOOR OPERATOR SCALE: N.T.S.



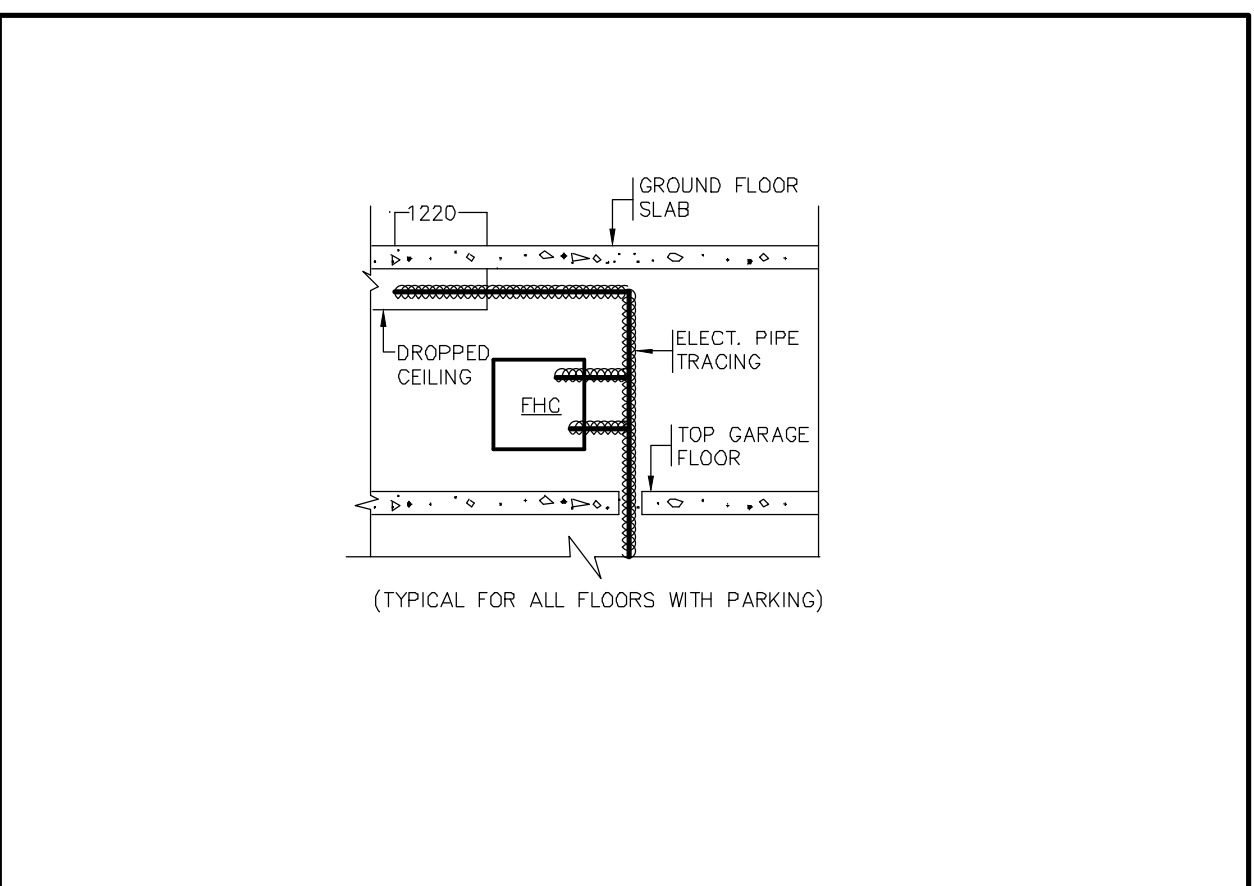
DUCT MTD DETECTOR ENCLOSURE DTL SCALE: N.T.S.



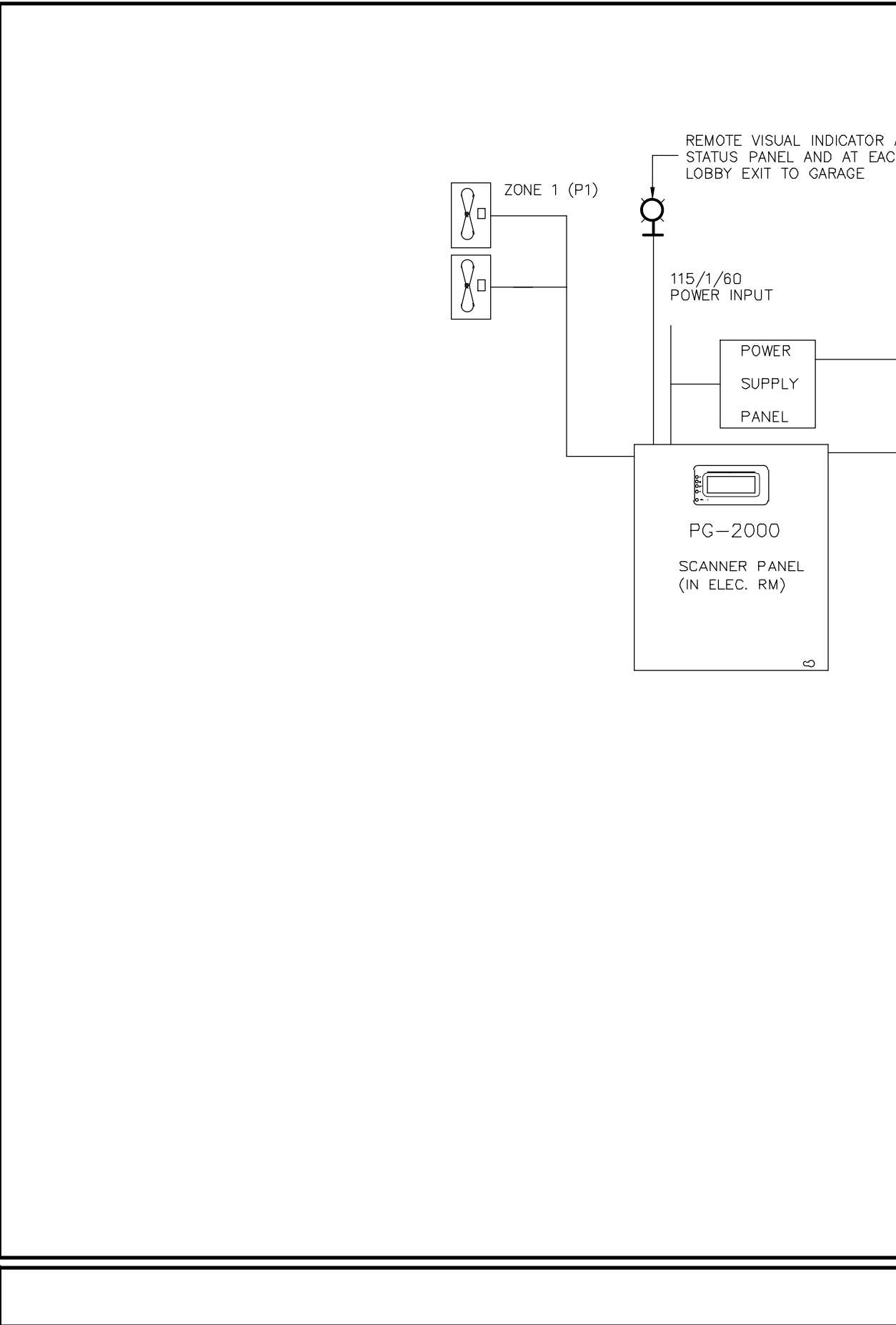
SMOKE RELIEF DAMPER CONTROL SCALE: N.T.S.



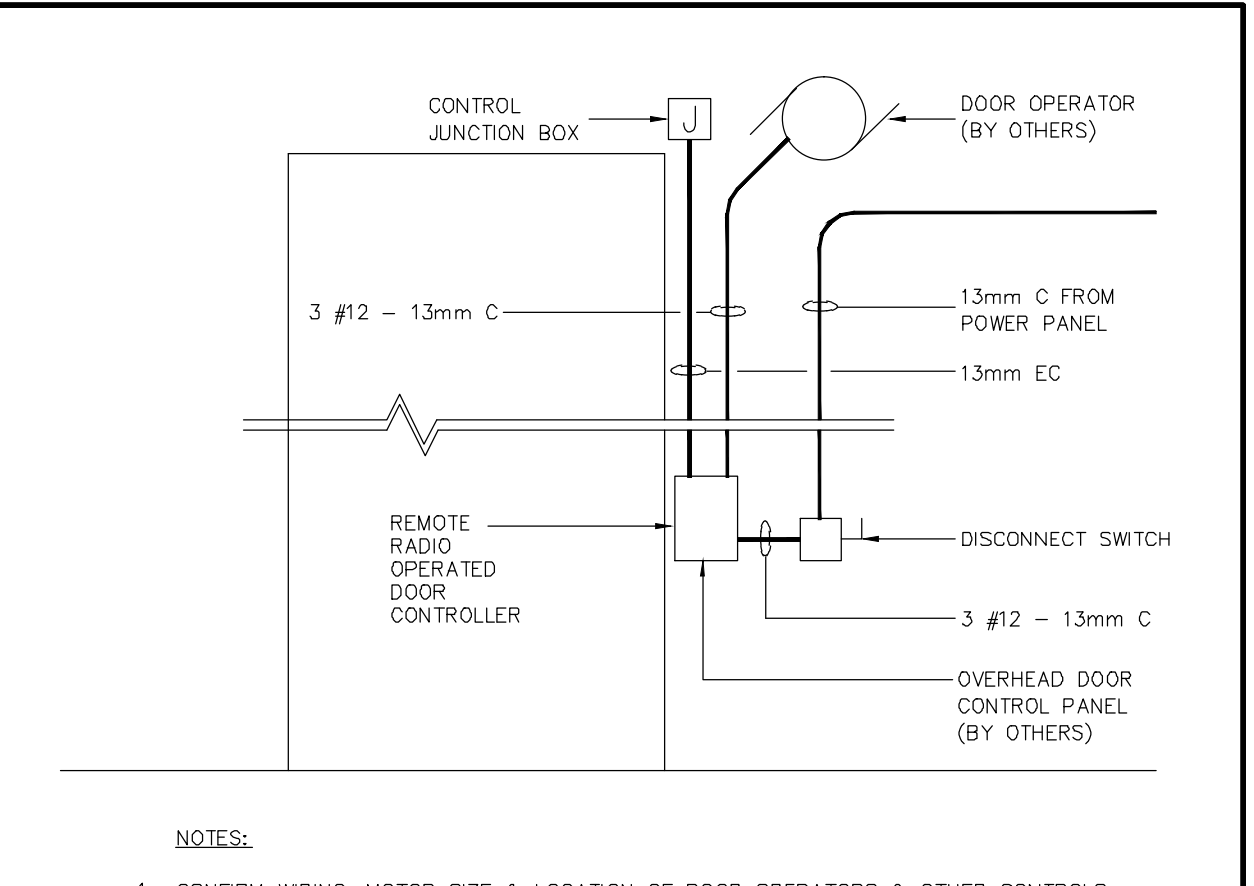
JB LOCATION FOR GARBAGE RECYCLING SYSTEM SCALE: N.T.S.



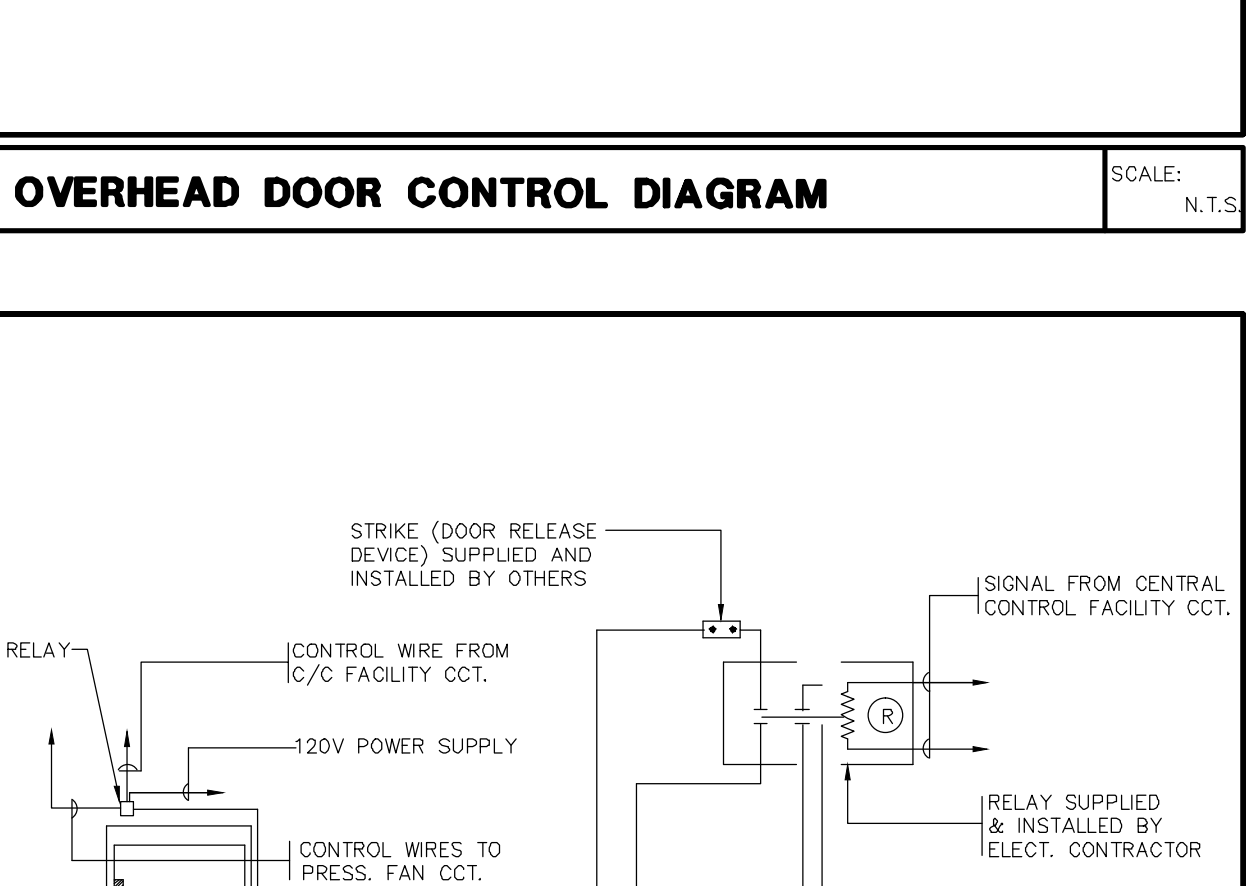
PIPE AND FHC TRACING DETAIL SCALE: N.T.S.



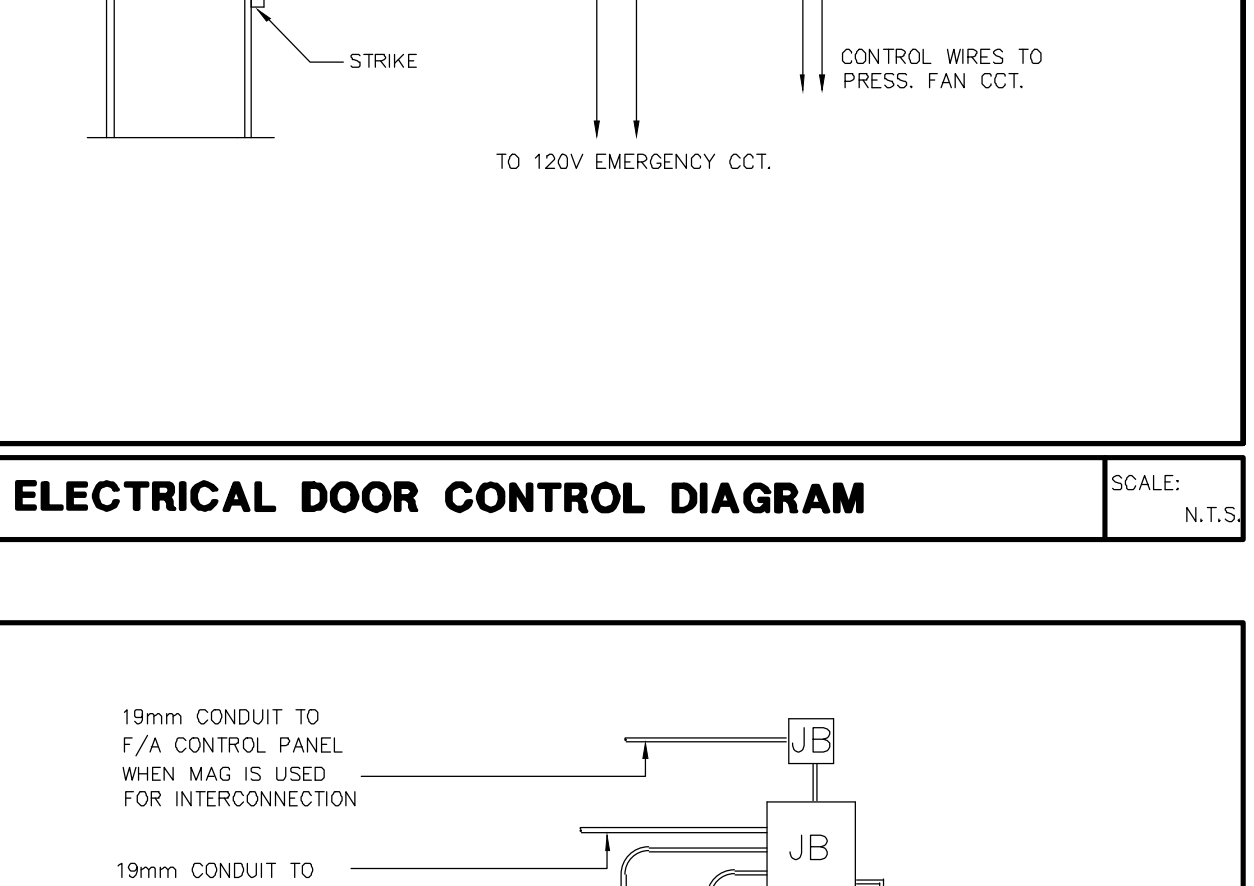
CO MONITOR SYSTEM TYPICAL INSTALLATION SCALE: N.T.S.



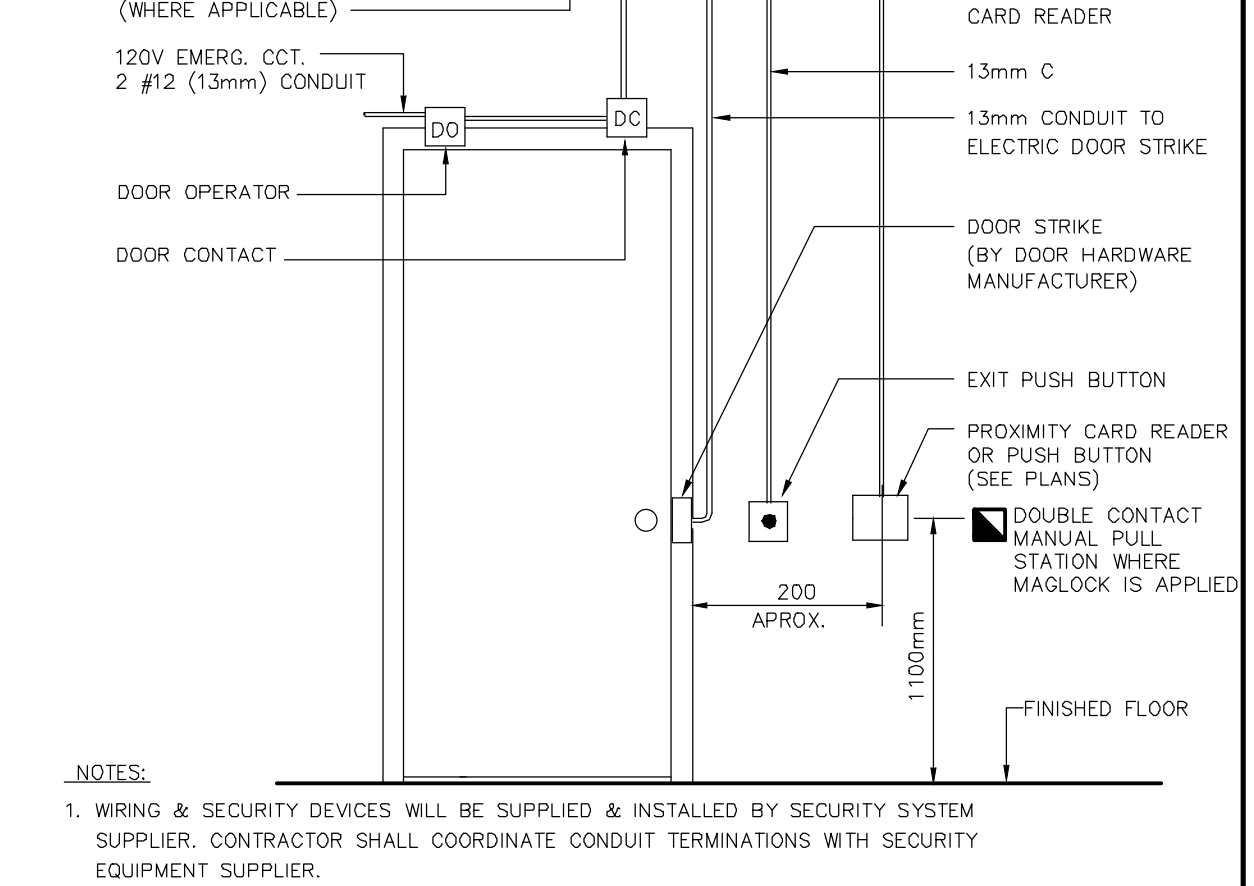
OVERHEAD DOOR CONTROL DIAGRAM SCALE: N.T.S.



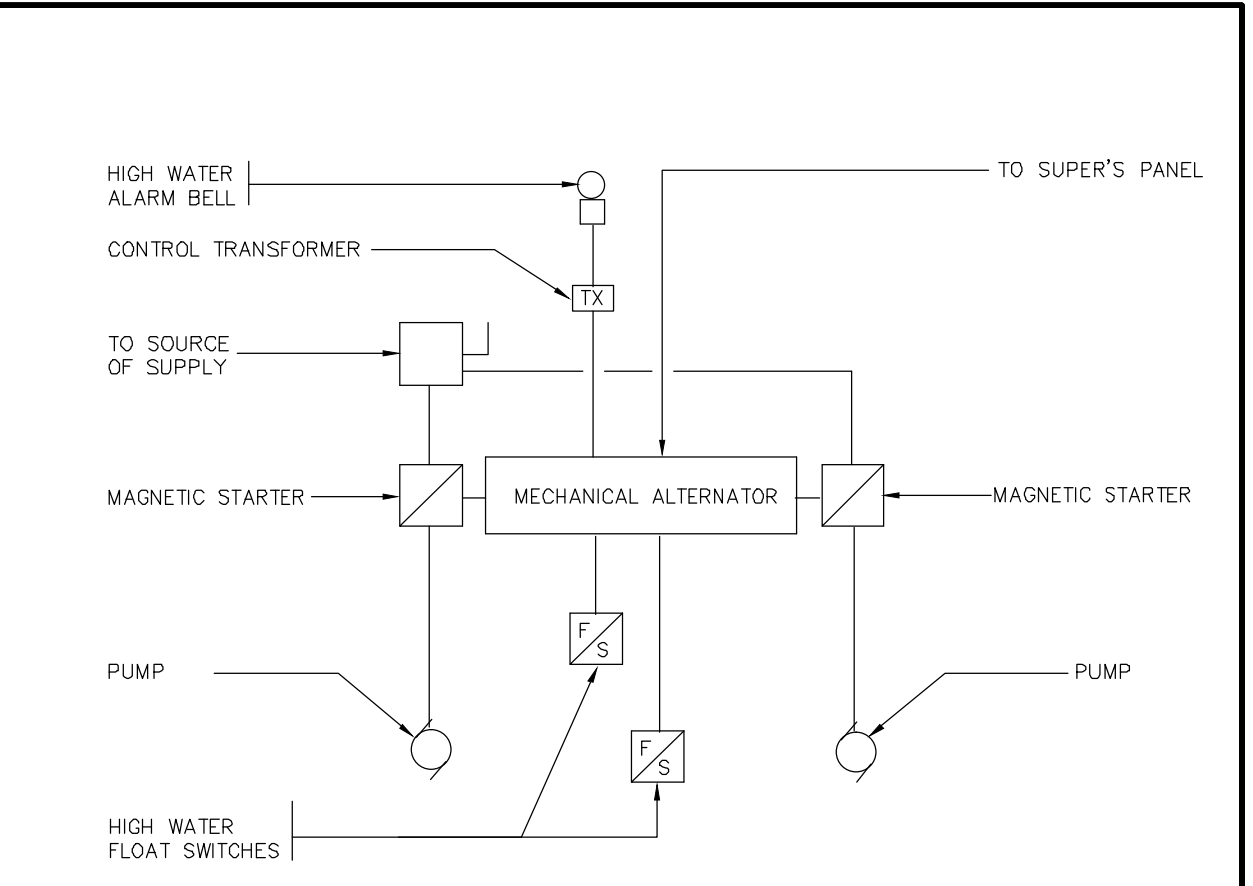
ELECTRICAL DOOR CONTROL DIAGRAM SCALE: N.T.S.



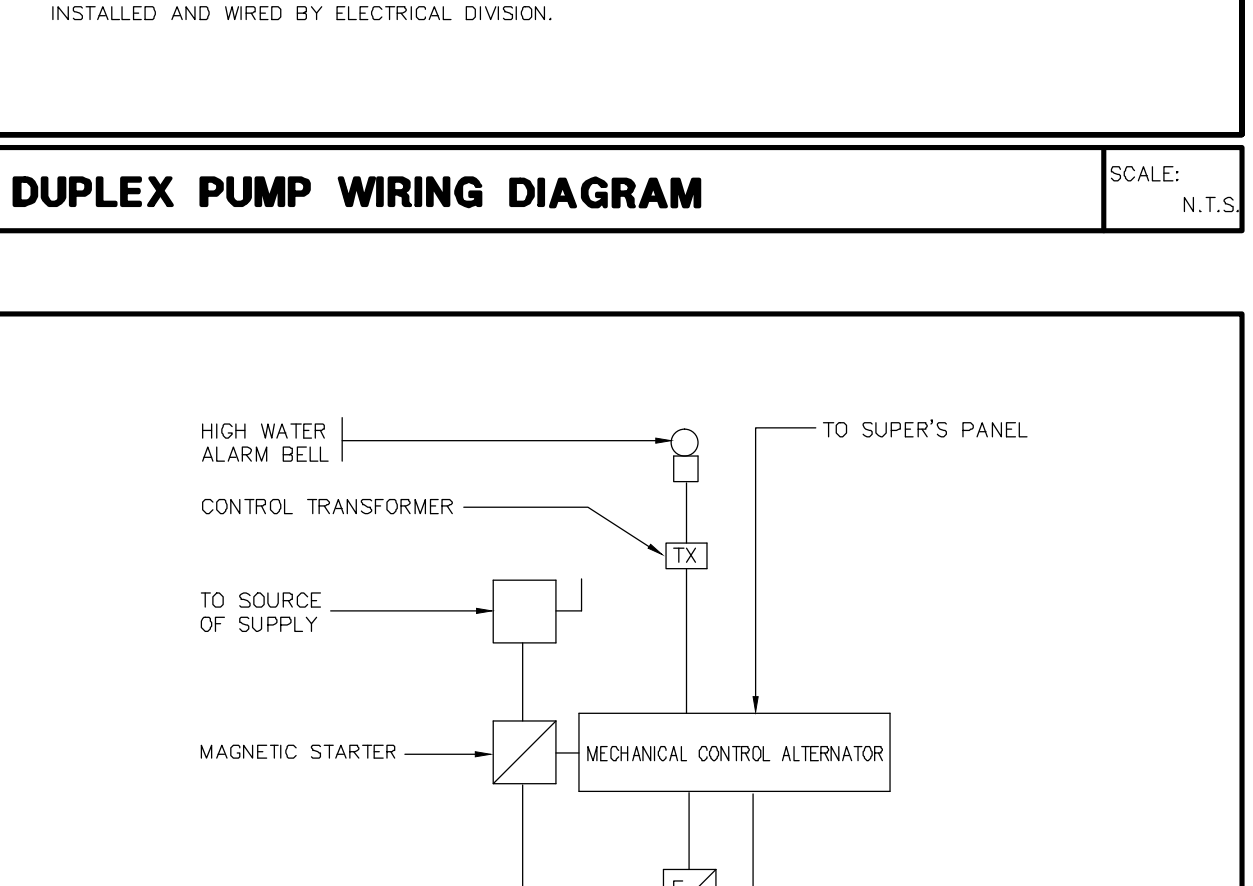
CARD READER INSTALLATION DETAIL SCALE: N.T.S.



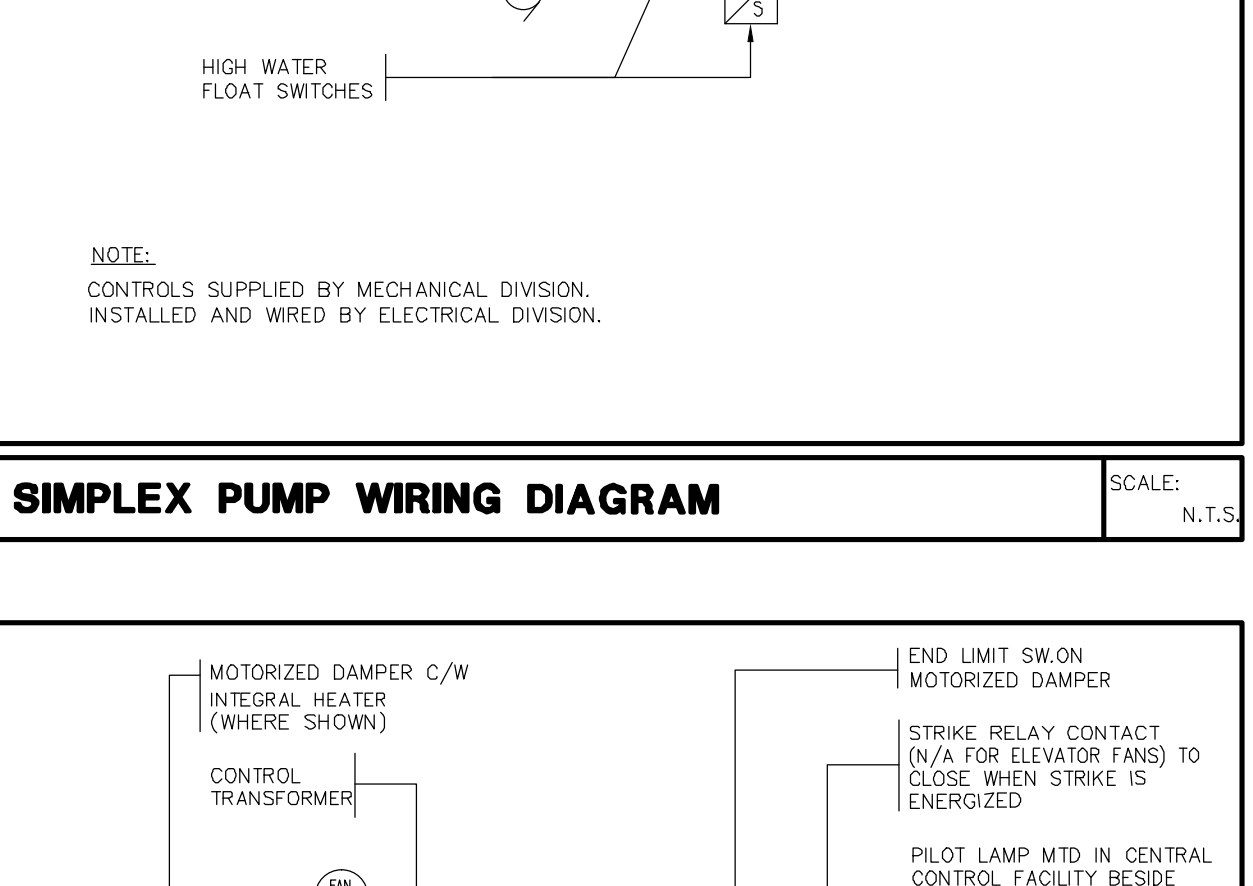
PRESSURIZATION FAN CONTROL DIAGRAM SCALE: N.T.S.



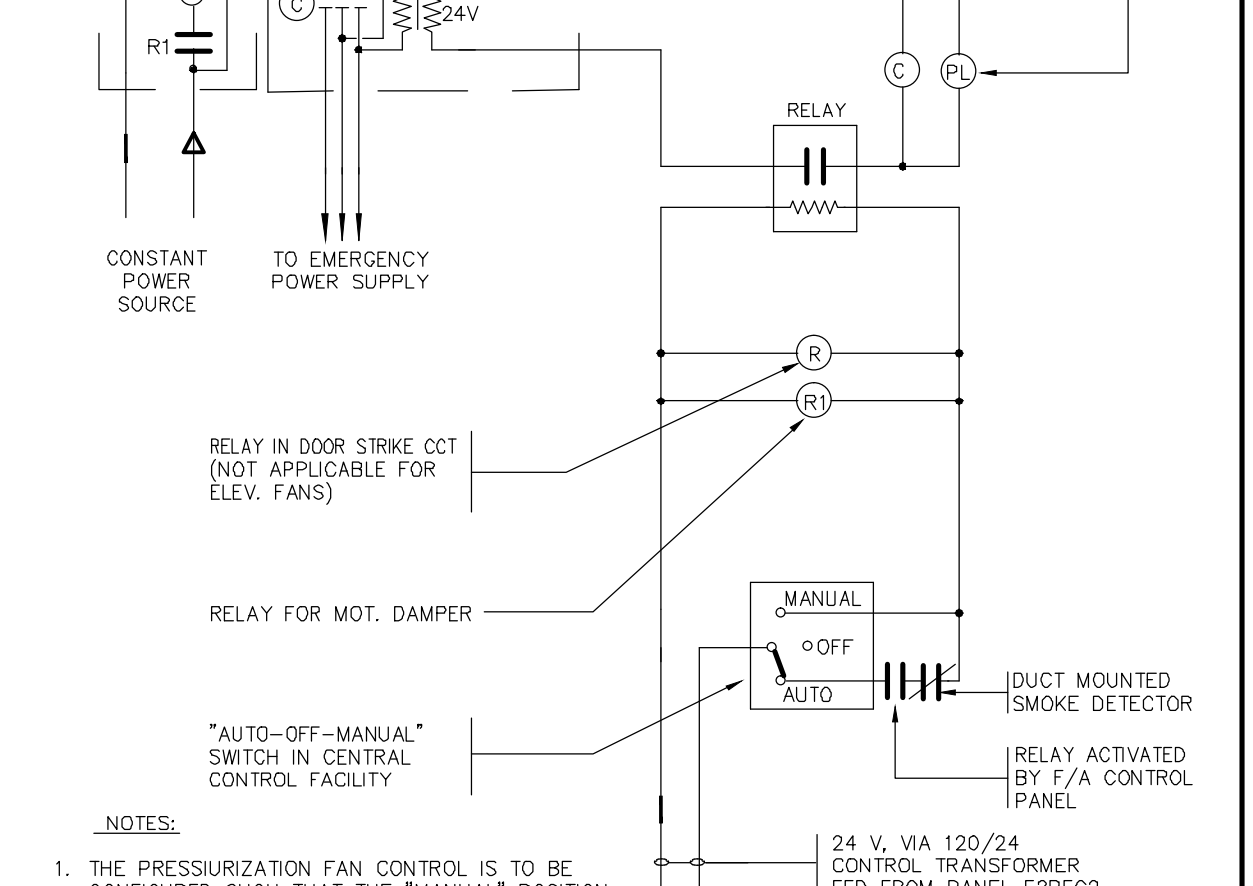
DUPLEX PUMP WIRING DIAGRAM SCALE: N.T.S.



SIMPLEX PUMP WIRING DIAGRAM SCALE: N.T.S.



SIMPLEX PUMP WIRING DIAGRAM SCALE: N.T.S.

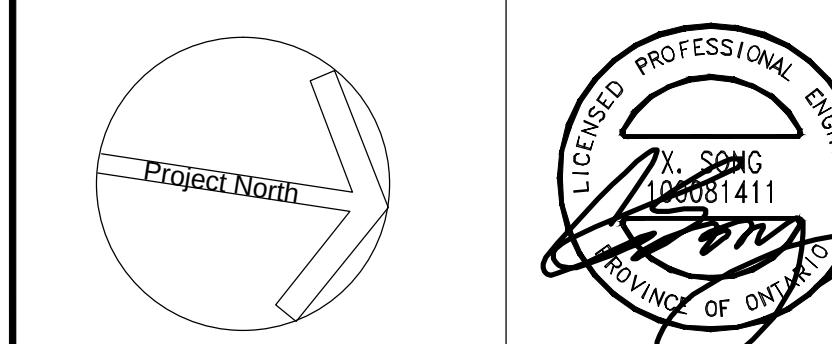


SIMPLEX PUMP WIRING DIAGRAM SCALE: N.T.S.

NO.	BY	DESCRIPTION	DATE
05	CM	ISSUED FOR CONSTRUCTION	2017-08-09
04	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
03	CM	ISSUED FOR PERMIT	2016-12-28
02	CM	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

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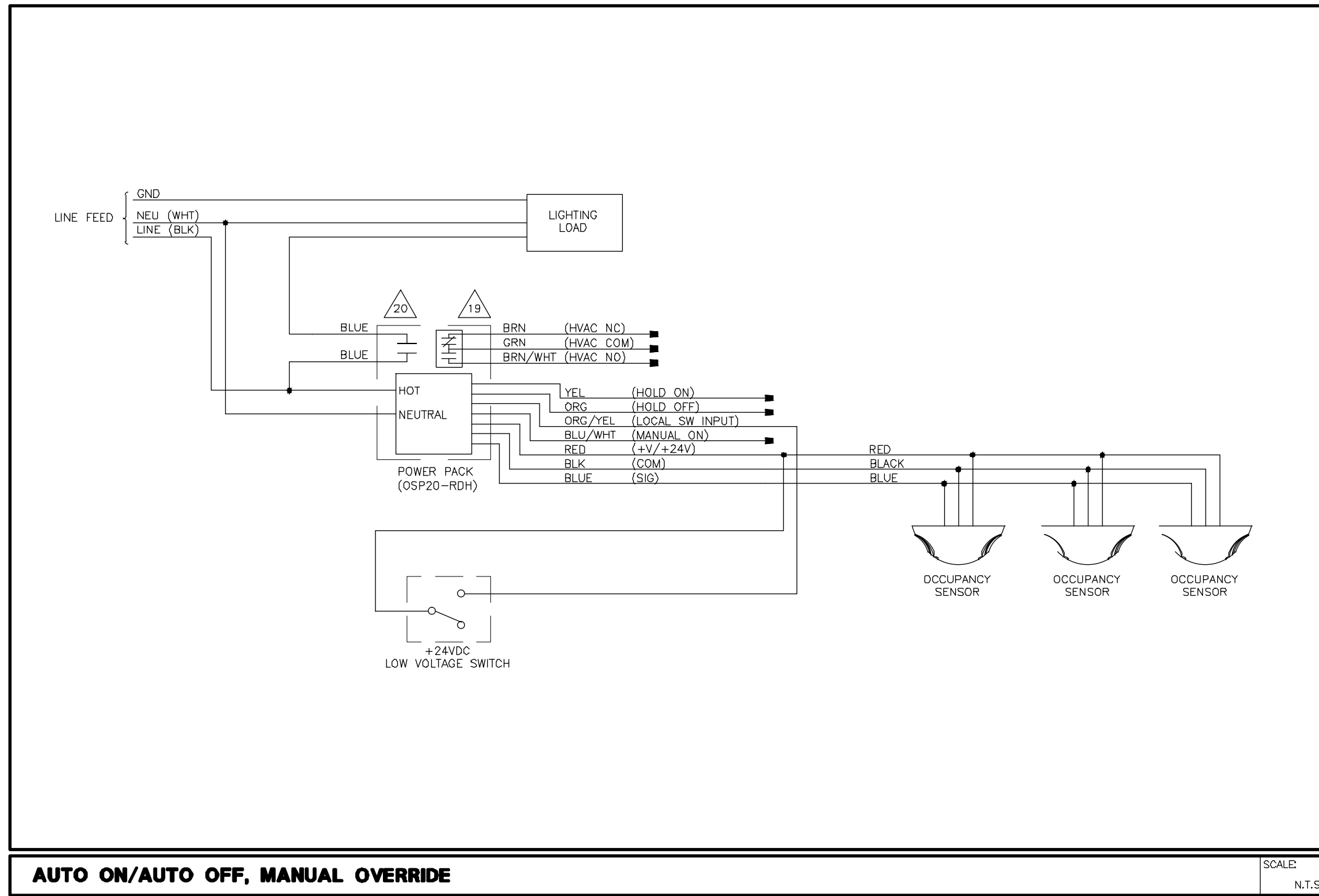
United Engineering Inc.
Mechanical Electrical Consulting Engineers
3545 Reale Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE: **DETAILS - A ELECTRICAL**

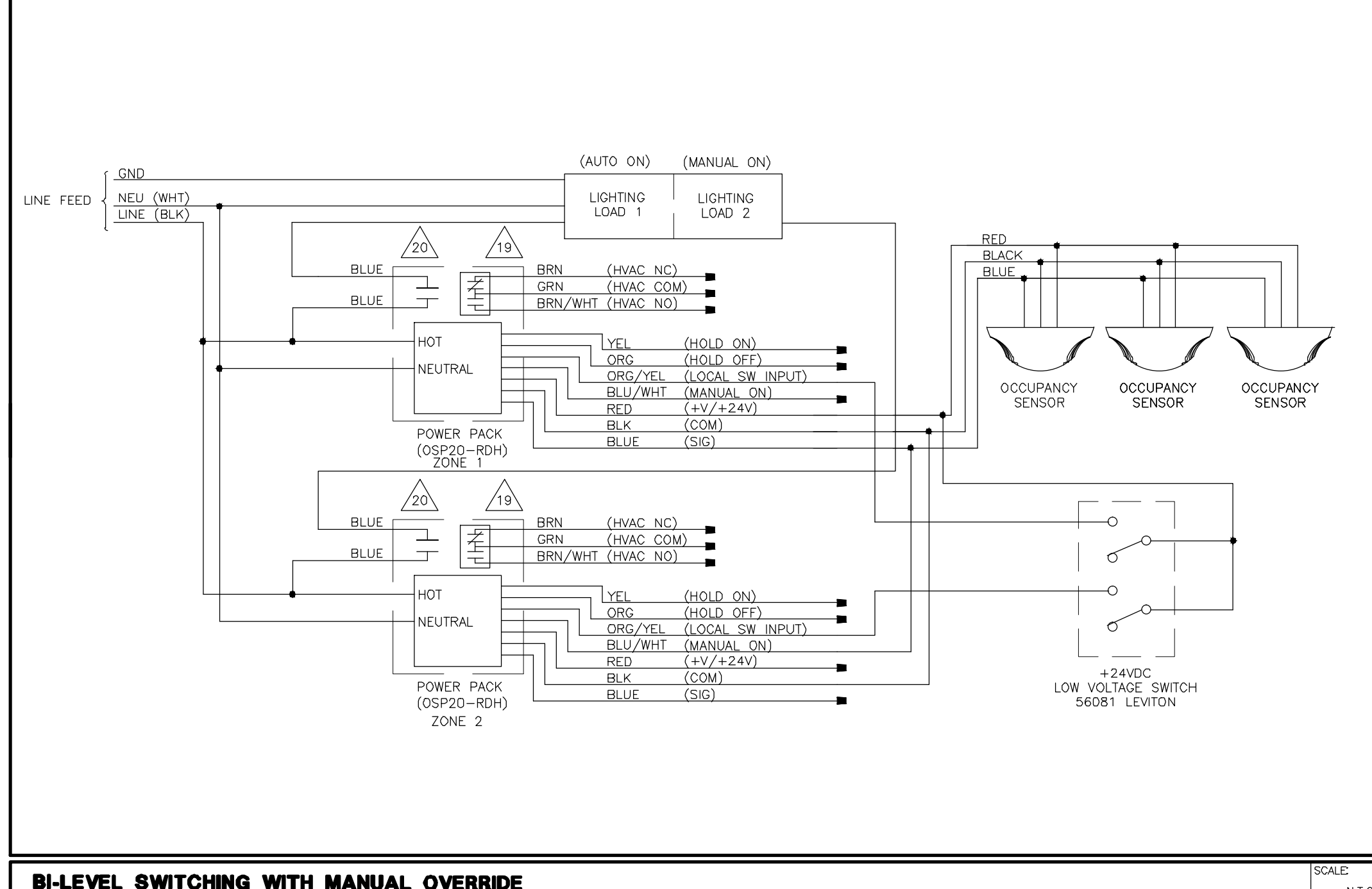
PROJECT: **PROPOSED RESIDENTIAL DEVELOPMENT 25 BAKER HILL BLVD.**

ROYAL PINE HOMES
STOUFFVILLE, ONTARIO

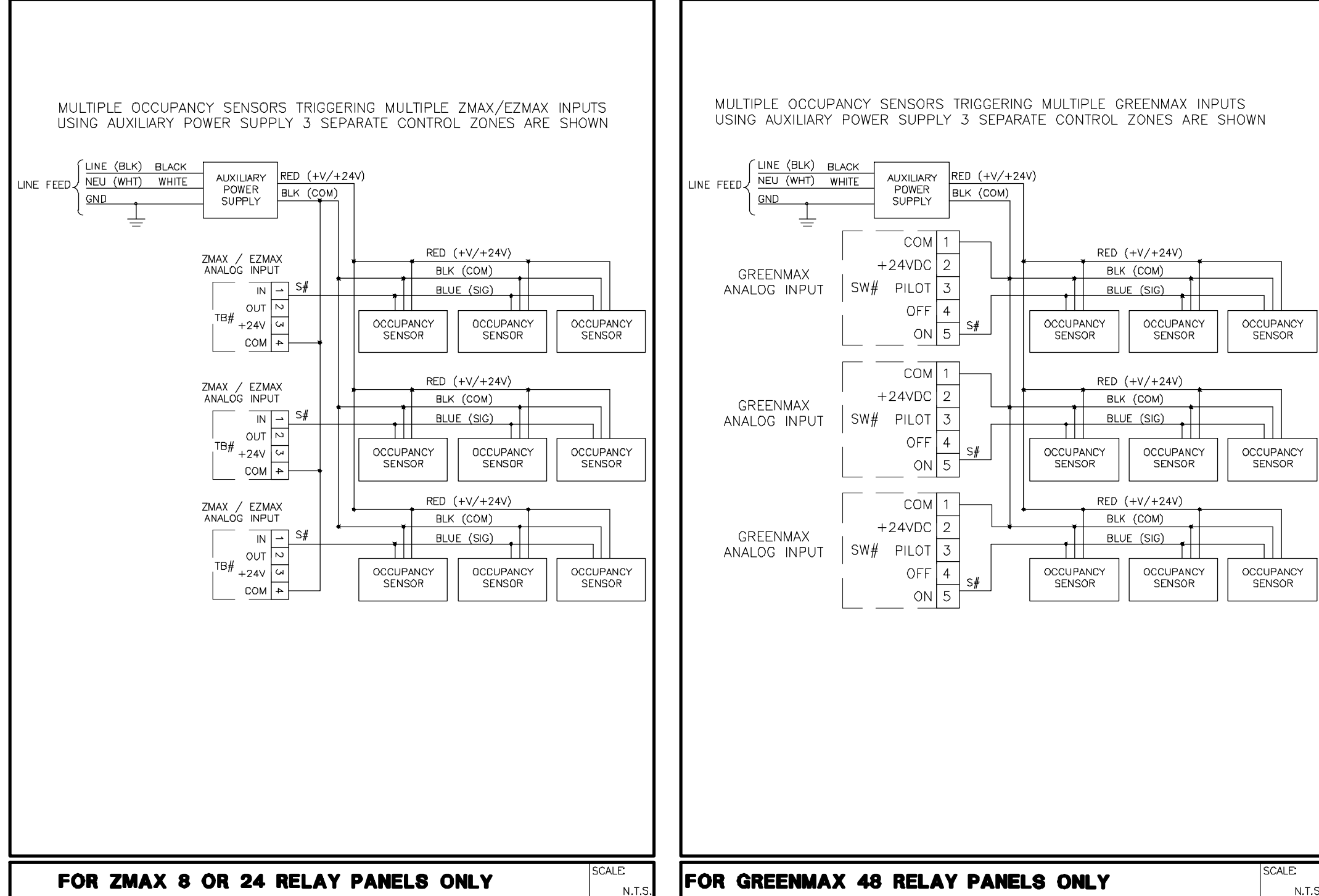
DRAWN	CM	CHECKED	MG	SCALE	N.T.S.
DATE	PROJECT	DRAWING			
SEPT. 2015	14-016	E-9A			
		OF			12



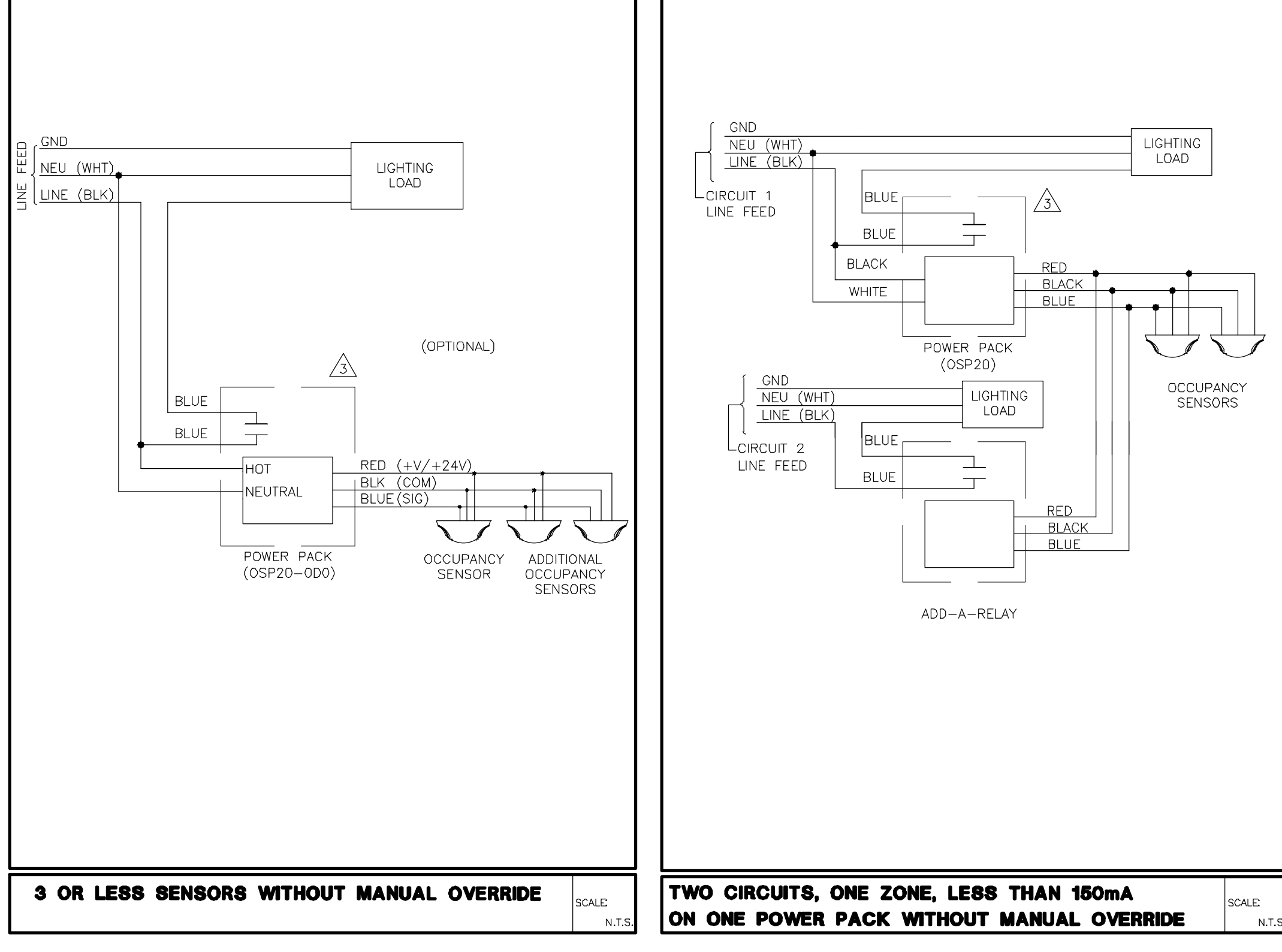
AUTO ON/AUTO OFF, MANUAL OVERRIDE



BI-LEVEL SWITCHING WITH MANUAL OVERRIDE



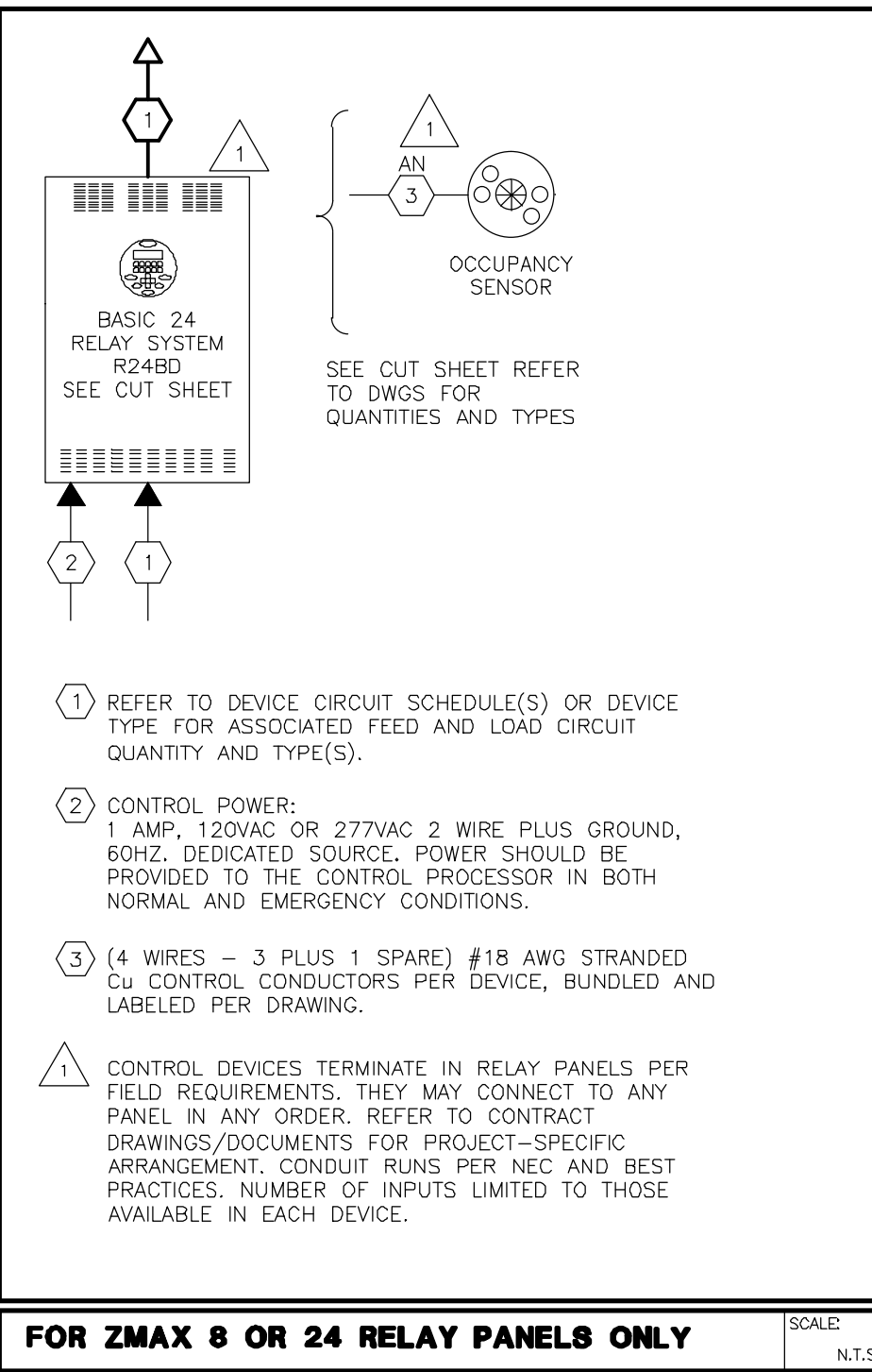
FOR ZMAX 8 OR 24 RELAY PANELS ONLY



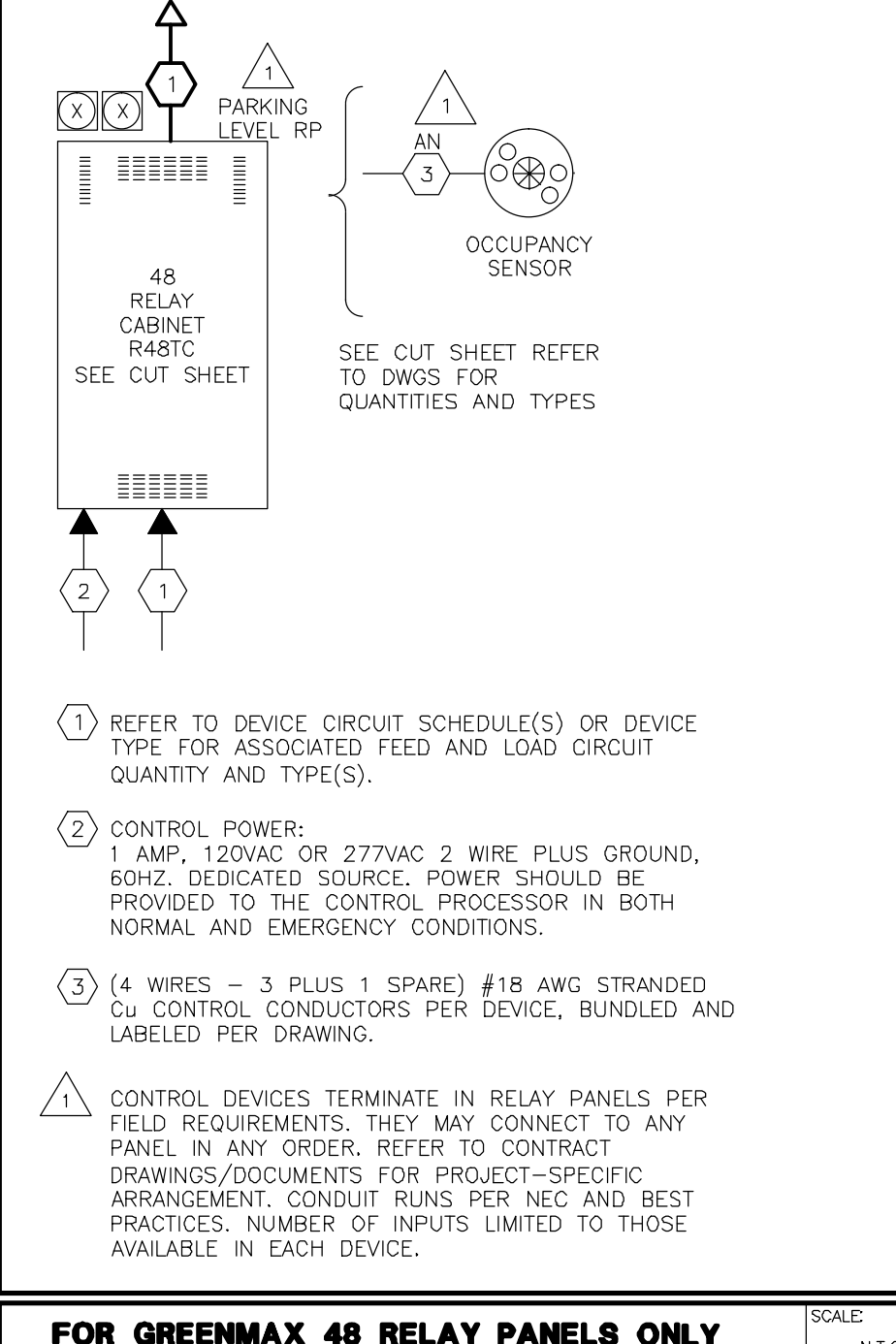
FOR GREENMAX 48 RELAY PANELS ONLY



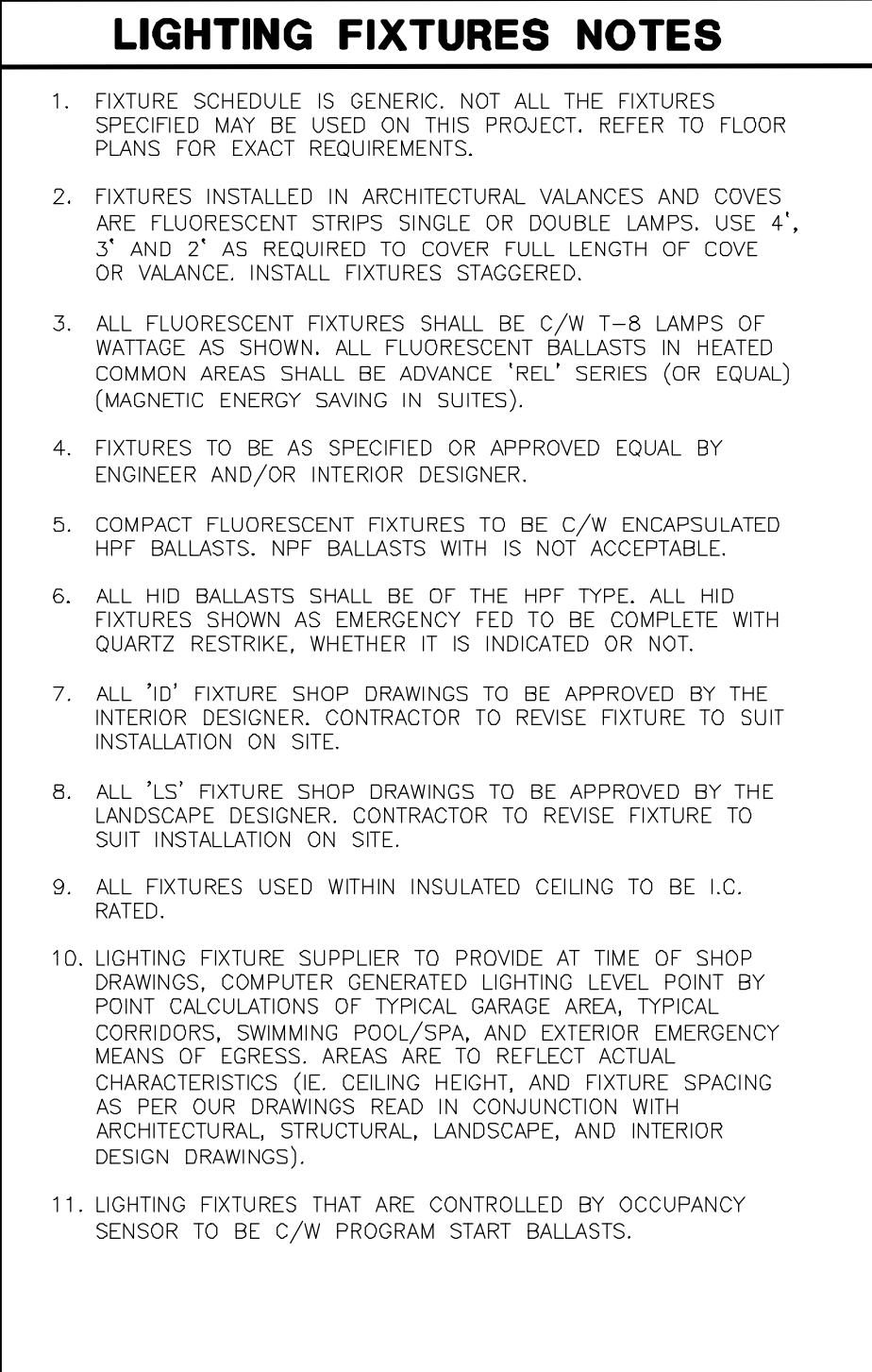
3 OR LESS SENSORS WITHOUT MANUAL OVERRIDE



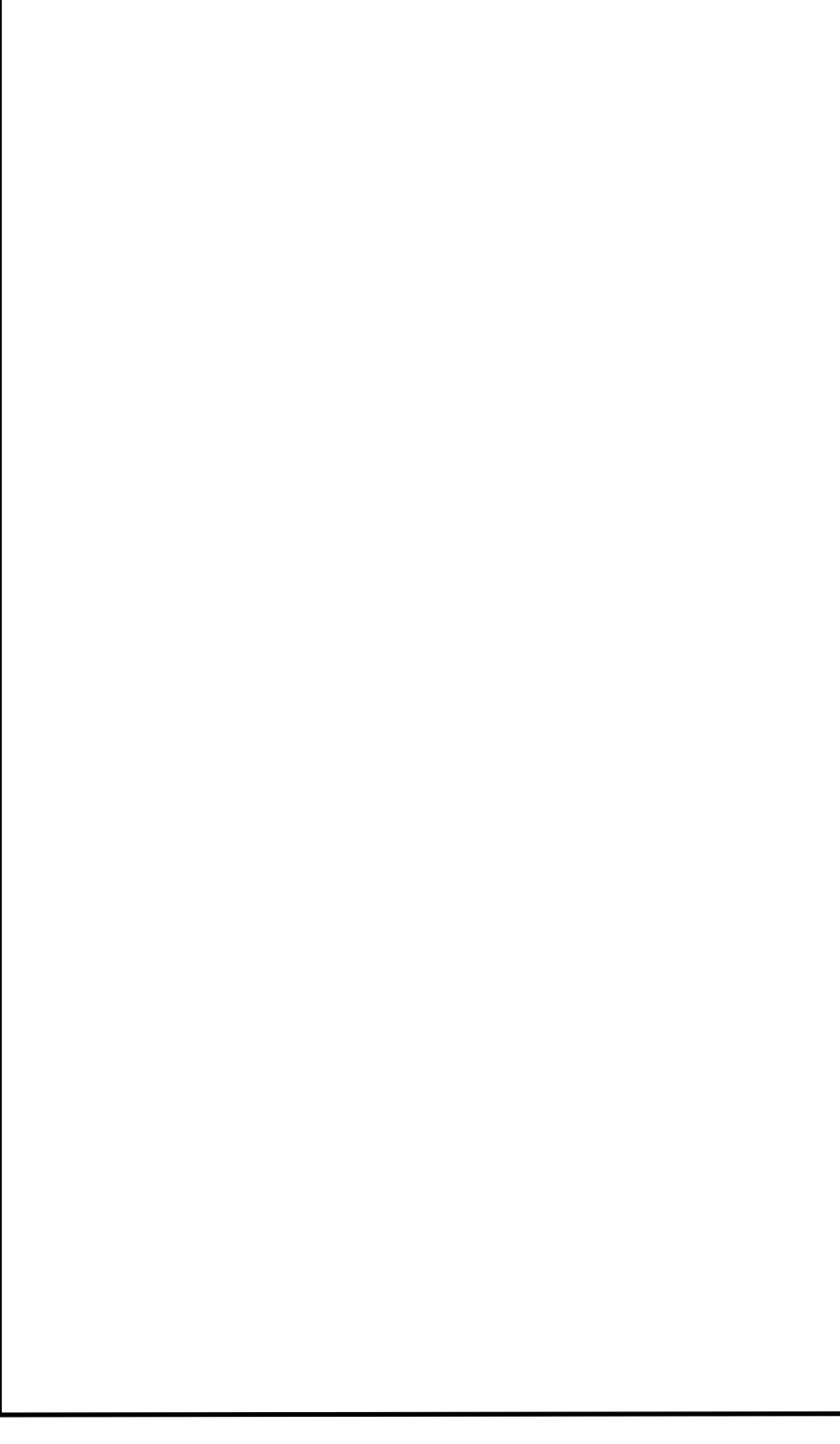
FOR ZMAX 8 OR 24 RELAY PANELS ONLY



FOR GREENMAX 48 RELAY PANELS ONLY



3 OR LESS SENSORS WITHOUT MANUAL OVERRIDE



TWO CIRCUITS, ONE ZONE, LESS THAN 160mA ON ONE POWER PACK WITHOUT MANUAL OVERRIDE



3 OR LESS SENSORS WITHOUT MANUAL OVERRIDE

INTERIOR DESIGN LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	LAMPS	VOLT	MOUNTING	LOCATION	REMARKS			
A	PURA LIGHTING, RECESSED LED DOWN LIGHT SINGLE ROUND 3" COB LED DOWN LIGHT P-RDL-10-A-12-WH-DM-30K	LED 1x12W	120V	SUSPENDED	P1 PARKING				
	RECESSED POT LIGHT	T8D	120V	RECESSED	MANAGEMENT/AMENITY				
	PURA LIGHTING, RECESSED LED DOWN LIGHT SINGLE ROUND 3" COB LED DOWN LIGHT P-RDL-10-A-12-WH-DM-30K	LED 1x12W	120V	RECESSED	LOBBY AND AMENITY AREAS				
	PURA LIGHTING, MULTIPLE DOWN LIGHT LED 6" NON 6" P-RML-10-A-12-WH-TR-30K-FB-VT	LED 1x20W	120V	RECESSED	LOBBY AND AMENITY AREAS				
	RECESSED POT LIGHT	T8D	120V	RECESSED	LOBBY PRELACE				
	PURA LIGHTING, RECESSED LED DOWN LIGHT SINGLE ROUND 3" COB LED DOWN LIGHT P-RDL-10-A-12-WH-DM-30K	LED 1x12W	120V	RECESSED	CORRIDOR (GROUND TO 7TH FL)				
	WALL WASHER FIXTURE SERIES, NON 6" BAR HANGER 3000K, FINISH: WHITE	T8D	120V	DOWNLIGHT WASHER	LOBBY				
	PURA LIGHTING, 4" LED DOWNLIGHT WALL WASHER P-LRF-04WH-DM-30K-800-NA	LED LUMENS: 800lm	120V	DOWNLIGHT WASHER	AMENITY AREAS				
	PURA LIGHTING, LINEAR FLUORESCENT LED PROPER P-LDR-24-F-40-ND-120-30K	40W	120V	RECESSED	AMENITY AREAS				
	PENDANT LIGHT	T8D	120V	SUSPENDED	ELEVATOR LOBBY				
	PENDANT LIGHT	T8D	120V	SUSPENDED	FRONT LOBBY				
	PURA LIGHTING, CUSTOM PENDANT LIGHT	T8D	120V	SUSPENDED	MAIN LOBBY				
	WALL SCONCE	T8D	120V		MAIN LOBBY				
	LED STRIP COVE LIGHT	LED STRIP	120V		MAIN LOBBY				

FOR ZMAX 8 OR 24 RELAY PANELS ONLY

LANDSCAPE LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	LAMPS	VOLT	MOUNTING	LOCATION	REMARKS			
MPTC-48W16L24K-T-L4	URBANSCAPE, LED POST TOP	48W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE I DISTRIBUTION			
MPTC-16W16L24K-T-L2-HS	URBANSCAPE, LED POST TOP	16W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE II DISTRIBUTION			
RFM-72W24L24K-T-4	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE IV DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			

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LANDSCAPE LIGHTING FIXTURE SCHEDULE									
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MPTC-16W16L24K-T-L2-HS	URBANSCAPE, LED POST TOP	16W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE II DISTRIBUTION			
RFM-72W24L24K-T-4	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE IV DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			

FOR ZMAX 8 OR 24 RELAY PANELS ONLY

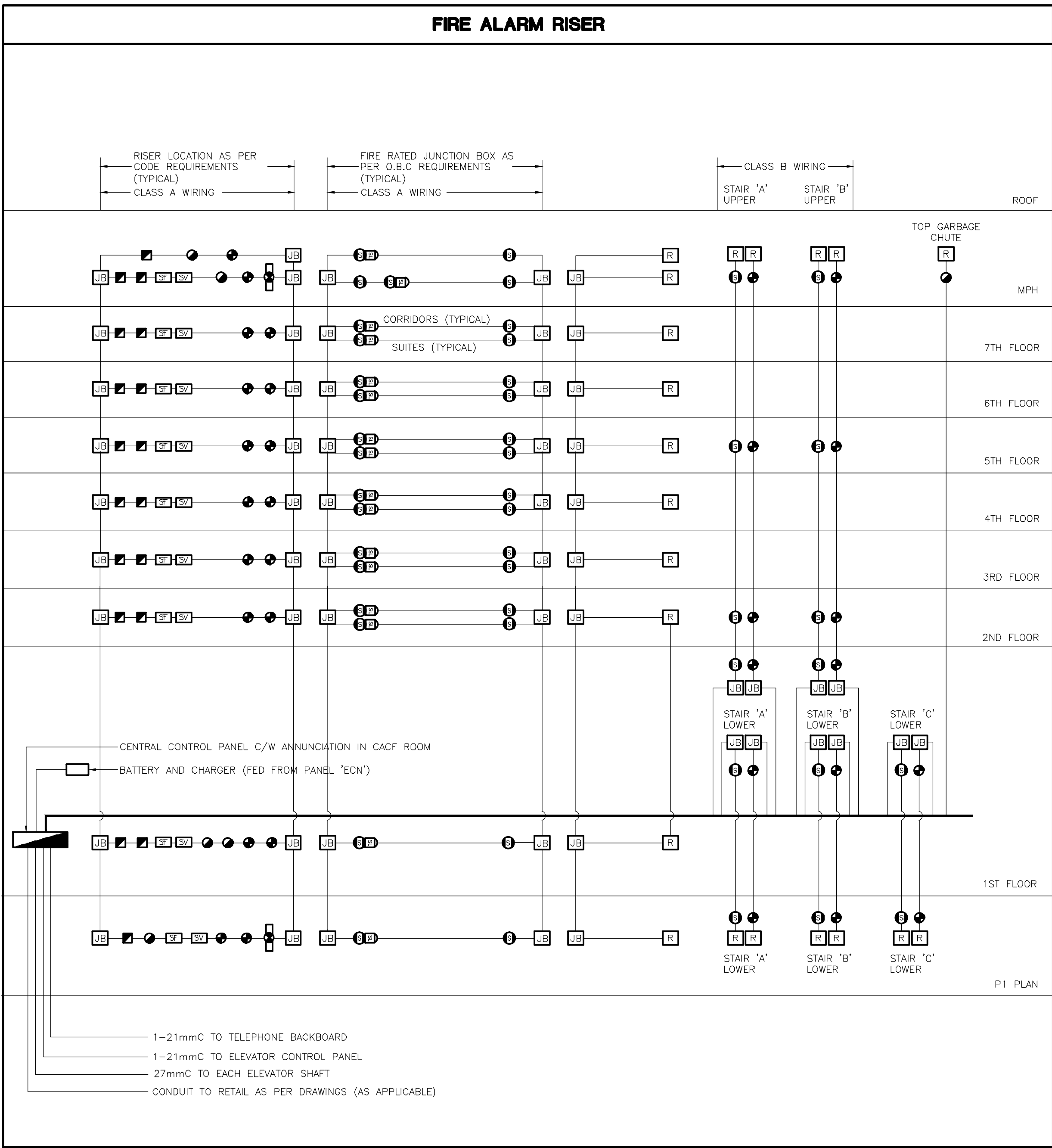
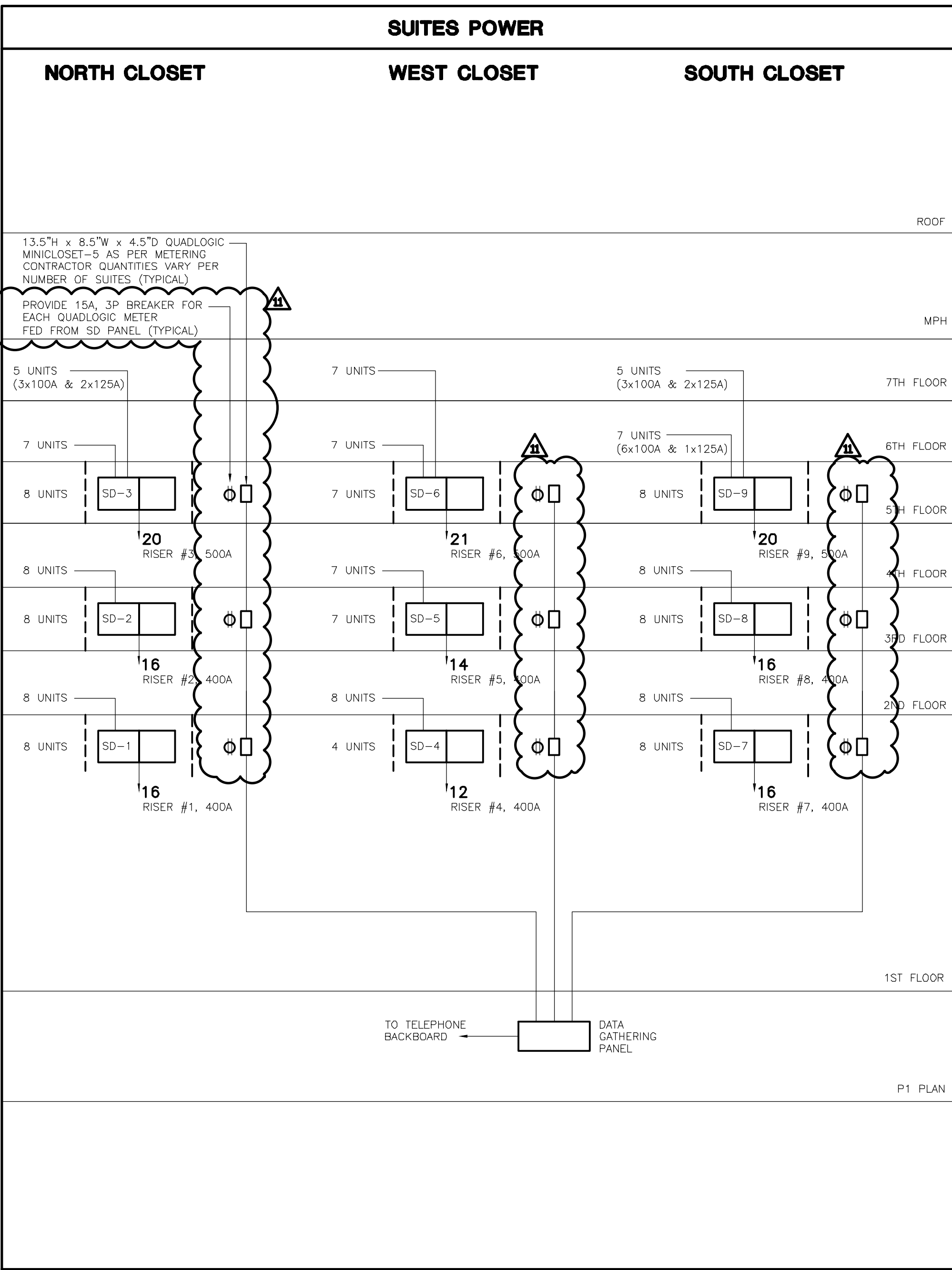
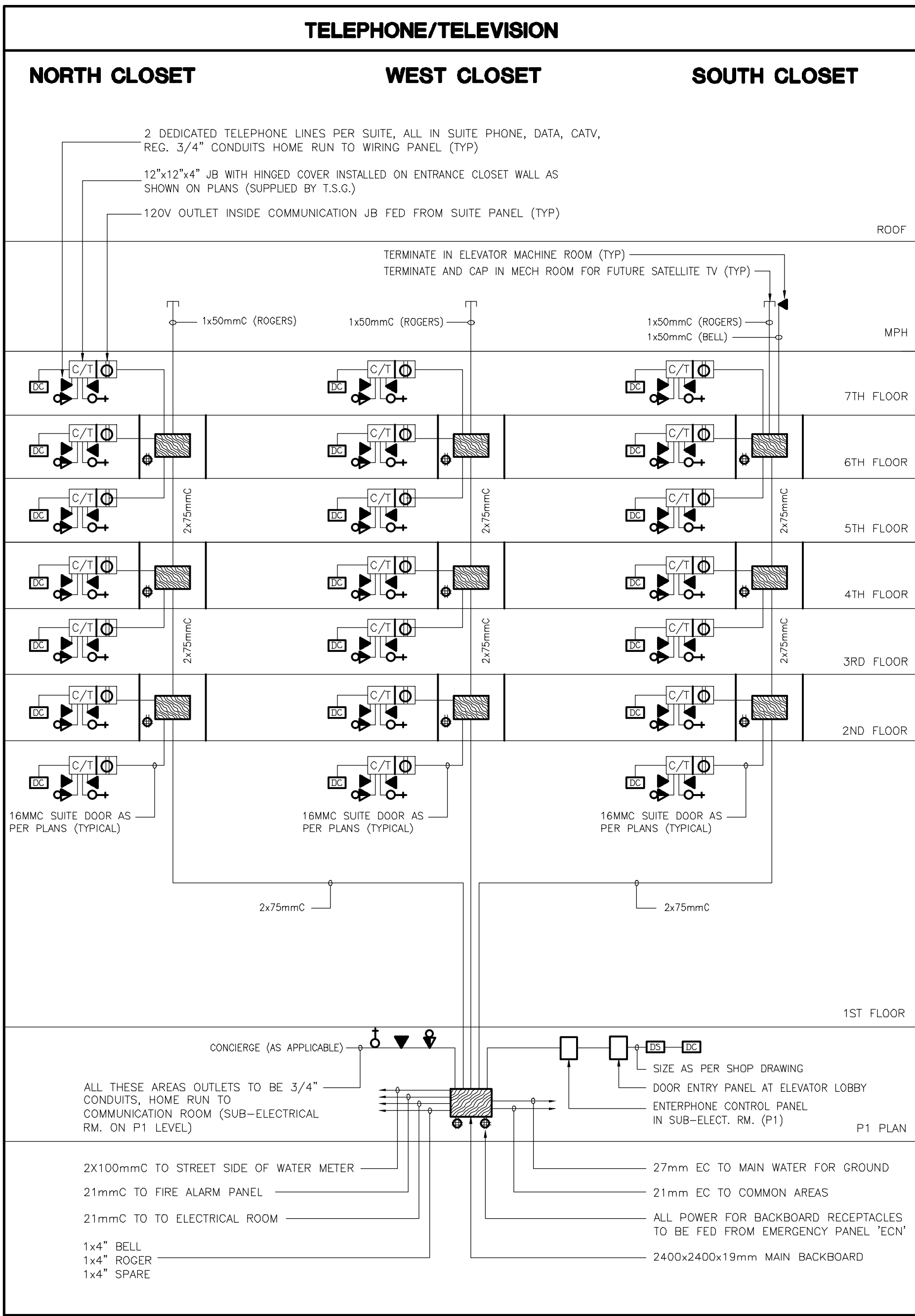
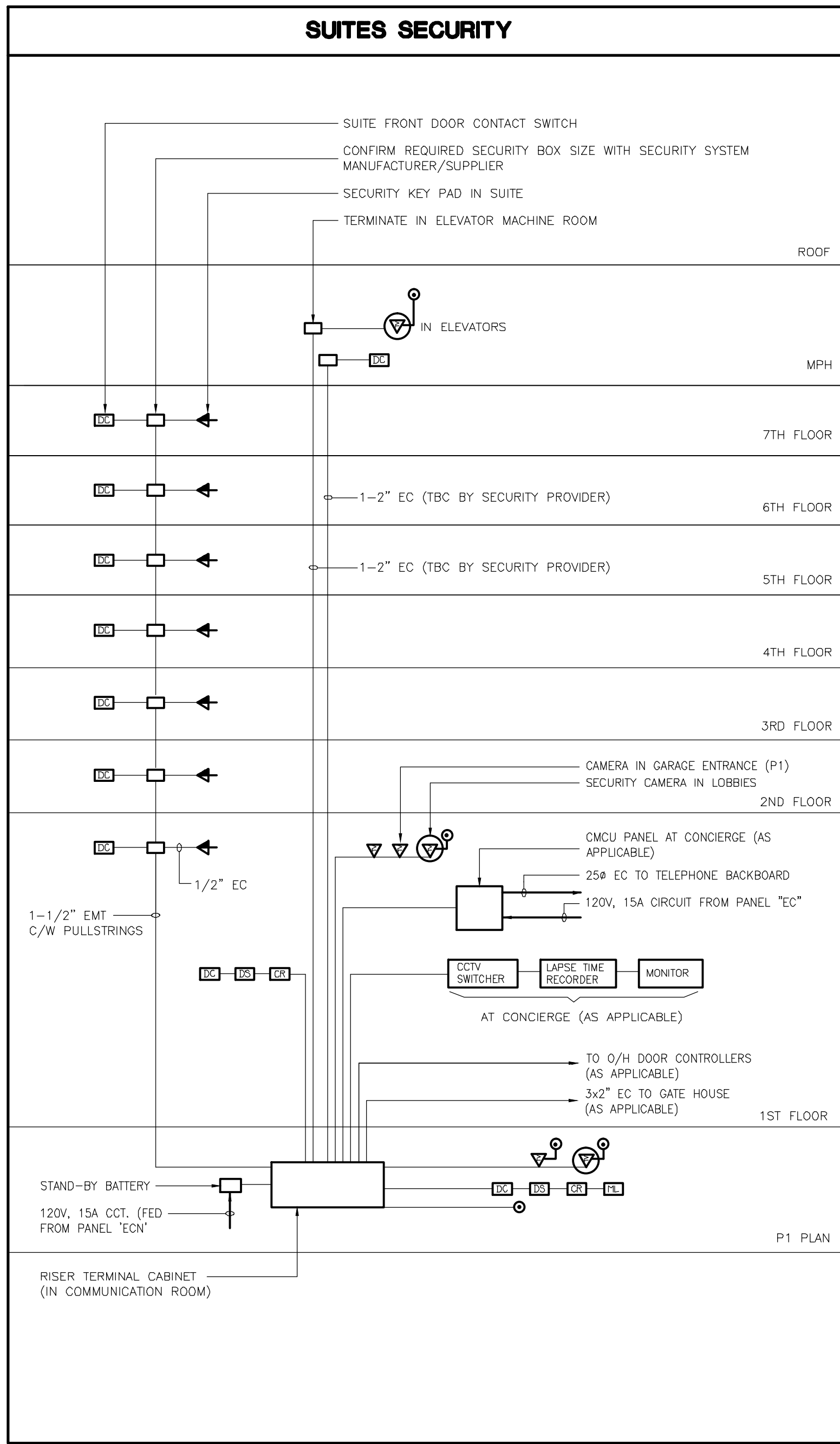
LANDSCAPE LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	LAMPS	VOLT	MOUNTING	LOCATION	REMARKS			
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RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
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LANDSCAPE LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	LAMPS	VOLT	MOUNTING	LOCATION	REMARKS			
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MPTC-16W16L24K-T-L2-HS	URBANSCAPE, LED POST TOP	16W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE II DISTRIBUTION			
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RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
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RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			
RFM-72W24L24K-T-5	ROAD FOCUS MEDIUM	72W LED	120V	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTION			

FOR ZMAX 8 OR 24 RELAY PANELS ONLY

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	LAMPS	VOLT	MOUNTING	LOCATION	REMARKS			
A	COMPACT FLUORESCENT GU24 EUROFACE 1IN GU24 3-LT T8ROKIT	3-13W	120V	CEILING SURFACE	SUITE KITCHEN	FINISH PLATINUM			
A1	FLUORESCENT ACRIALIC WAF GALAXY LIGHTING 0534812W4, ENERGY STAR LISTED	2-32W	120V	CEILING SURFACE	SUITE KITCHEN	FINISH WHITE			
A2	15 FLUORESCENT UNDERCABINET STRIP GALAXY LIGHTING 420028WH LENGTH TO SUIT	1-14W 28W	120V	UNDER COUNTER	SUITE KITCHEN	FINISH WHITE			
B	LED UNDER COUNTER STRIP AUCO ZEE LED 9" ALT	LED 21W	120V	UNDER COUNTER	SUITE KITCHEN	FINISH WHITE			
B	COMPACT FLUORESCENT GALAXY LTD 053112M4-PT02U4, ENERGY STAR LISTED	2-13W	120V	CEILING SURFACE	SUITE BEDROOM	FINISH PENTHER			
C	COMPACT FLUORESCENT GALAXY LTD 053112M4-PT02U4, ENERGY STAR LISTED	2-13W	120V	CEILING SURFACE	SUITE BEDROOM	FINISH PENTHER			
D	COMPACT FLUORESCENT GALAXY LIGHTING 053112M4-PT02U4, ENERGY STAR LISTED	2-13W	120V	CEILING SURFACE	SUITE DINING	FINISH PENTHER			
D1	COMPACT FLUORESCENT PENDANT GALAXY LTD 053411, ENERGY STAR LISTED	1-15W	120V	CEILING	SUITE DYNASTY	FINISH WHITE			
E	VANITY LIGHT COMPACT GALAXY LIGHTING 053112M4-PT02U4, ENERGY STAR LISTED	4-13W	120V	WALL	SUITE COMM BATHROOM	BRUSHED NICKEL			
F	VANITY LIGHT FLUORESCENT GALAXY LIGHTING 053112M4-PT02U4, ENERGY STAR LISTED	2-17W18	120V	WALL	SUITE COMM BATHROOM	WHITE/BRUSHED NICKEL			
F1	FLUORESCENT WARMWOUND VISIONEERING MDP248-232-15-ELE C/W P.S. BALLAST	1-13W	120V	CEILING RECESSED	SUITE COMM BATHROOM	WHITE/CHROME			
E3	COMPACT FLUORESCENT GALAXY LIGHTING RS2000C/AT024/216WH	1-13W	120V	CEILING RECESSED	SUITE COMM BATHROOM	FINISH WHITE			
E3-C	COMPACT FLUORESCENT GALAXY LIGHTING RS2000C/AT024/216WH	1-9W	120V	CEILING RECESSED	SUITE COMM BATHROOM	FINISH WHITE			
F1	FLUORESCENT WARMWOUND VISIONEERING MDP248-232-15-ELE C/W P.S. BALLAST	2-32W	120V	CEILING RECESSED	COMMON AREAS	FINISH WHITE			
F2	FLUORESCENT CUBE LIGHT VISIONEERING MDP248-232-15-ELE C/W P.S. BALLAST	1-32W	120V	CEILING RECESSED	COMMON AREAS	FINISH WHITE			
F3	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F4	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F5	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F6	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F7	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F8	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F9	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F10	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F11	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F12	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F13	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F14	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F15	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F16	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F17	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F18	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F19	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F20	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F21	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F22	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F23	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F24	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			
F25	FLUORESCENT BEDGELLI ILLUMINA BS 100 4-16 C/W PROG START HI-LITE BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE			



- SECURITY RISER NOTES**
1. ALL CONDUIT RISERS AND BACKBOXES FOR SECURITY SYSTEM SHALL BE BY ELECTRICAL CONTRACTOR AND AS RECOMMENDED BY SYSTEM SUPPLIER.
 2. SEE FLOOR PLANS FOR EXACT NUMBER OF OUTLETS.
 3. ONE RISER PER LOCATION.
 4. SUPPLY AND INSTALLATION OF DEVICES INCLUDING WIRING, BY SECURITY CONTRACTOR.
 5. MANDATORY PERMITS BY SECURITY CONTRACTOR.
 6. COORDINATE SECURITY REQUIREMENTS FOR ELEVATOR CAMERA'S AND DEVICES PRIOR TO INSTALLATION.

- TELEPHONE/TELEVISION RISER NOTES**
1. ALL CONDUIT HOME RUNS FOR COMMUNICATION SYSTEM SHALL BE 2X27mmC. ALL CONDUITS WITHIN SUITES SHALL BE 27mmC UNLESS OTHERWISE NOTED.
 2. SEE FLOOR PLANS FOR EXACT NUMBER OF OUTLETS.
 3. WIRING BY COMMUNICATION CONTRACTOR.
 4. ALL OUTLETS FOR COMMUNICATION SYSTEM SHALL BE 4" SQUARE.

SUITES POWER PANEL SCHEDULE

DESIGNATION	MAINS	BREAKERS AND FEEDERS
SD	100A, 3P, 4W OR 400A, 3P, 4W	100A 2P (3C #1 RW90 FEEDERPLEX NUAL-35mmC(1-1/4") [3C-B]) OR 125A 2P (3C #2/0 RW90 FEEDERPLEX NUAL-41mmC(1-1/2") [3C-B]) - AS MARKED ON PLAN

TOTAL UNIT COUNT: 151

NOTE:

1. ALLOW FOR FIRE STOP/SMOKE SEAL AT ELECTRICAL CLOSET AND AT PANEL WITHIN SUITE.
2. SUITE'S PANELS ARE 100A UNLESS NOTED OTHERWISE.
3. 'SD' PANEL ARE INDIVIDUALLY METERED, SUPPLIED AND COMMISSIONED BY METERING CONTRACTOR, INSTALLED BY DIVISION 16.
4. SEE METERING NOTES FOR MORE INFORMATION.

- METERING NOTES**
1. ALL METERING EQUIPMENT (TRANSFORMERS, METER, METER BASES, CT'S, TEST BLOCK, AND CABINETS) ARE TO BE SUPPLIED BY OTHERS. POWER REQUIREMENTS (FUSED DISCONNECTS, SPLITTER, DISCONNECT SWITCHES, AND DATA CABLEING 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/W WIRING AND ALLOW FOR INSTALLATION OF ASSOCIATED METERING EQUIPMENT (SEE NOTE #1) 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 TAMPERPROOF CHECK METERING TO CLIENT'S APPROVAL. ALLOW FOR COORDINATION WITH SYSTEM SUPPLIER.
 10. COORDINATE THE INSTALLATION OF TAMPERPROOF CHECK METERING TO CLIENT'S APPROVAL. ALLOW FOR COORDINATION WITH SYSTEM SUPPLIER.
 11. ALL THE 'SD' PANELS ARE INDIVIDUALLY METERED, SUPPLIED AND COMMISSIONED BY METERING CONTRACTOR. PANEL INSTALLATION & COORDINATION AT SITE BY DIV.16

- 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 PHASE 1 CACF TO HAVE A COMPLETE AND FULLY FUNCTIONAL INTEGRATED 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 PIPE SYSTEM.
 - LOSS OF POWER TO AN AUTOMATICALLY STARTING FIRE PUMP.
 - A TEMPERATURE APPROACHING THE FREEZING POINT IN A DRY PIPE WATER ENCLOSURE.
 - LOSS OF POWER TO A HEAT TRACING CABLE SERVING:
 - 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 MIA'S, GARAGE EXHAUST FANS, PRESSURIZATION FANS, AND CONTROL FOR ALL ELEVATOR AND STAIR PRESSURIZATION AS WELL AS THE AMENITY AREA ATRIUM SMOKE EXHAUST SYSTEM.
 2. PROVIDE FAN SHUT-DOWN RELAYS TO DE-ENERGIZE ALL SUPPLY AIR FANS ON 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(13).

ELECTRICALLY SUPERVISED VALVE SCHEDULE

SUPERVISED VALVE NO.	SYSTEM	LOCATION
(S.V.#1)	INCOMING FIRE MAIN ISOLATION	SPRINKLER ROOM
(S.V.#2)	INCOMING FIRE MAIN ISOLATION	SPRINKLER ROOM
(S.V.#3)	PRIVATE HYDRANT ISOLATION	SPRINKLER ROOM
(S.V.#4)	FIRE PUMP MAIN ISOLATION	SPRINKLER ROOM
(S.V.#5)	FIRE PUMP SUCTION	SPRINKLER ROOM
(S.V.#6)	FIRE PUMP DISCHARGE	SPRINKLER ROOM
(S.V.#7)	FIRE PUMP BY-PASS	SPRINKLER ROOM
(S.V.#8)	FIRE PUMP BY-PASS	SPRINKLER ROOM
(S.V.#9)	FIRE PUMP TEST HEADER	SPRINKLER ROOM
(S.V.#10)	WET SPRINKLER AND FSP COMBINATION MAIN	SPRINKLER ROOM
(S.V.#11)	DRY SPRINKLER SYSTEM HEADER	SPRINKLER ROOM
(S.V.#12)	DRY SPRINKLER SYSTEM P-1 NORTH	SPRINKLER ROOM
(S.V.#13)	DRY SPRINKLER SYSTEM P-1 CENTRE	SPRINKLER ROOM
(S.V.#14)	DRY SPRINKLER SYSTEM P-1 SOUTH	SPRINKLER ROOM
(S.V.#15)	FIRE STANDPIPE RISER-1	P1 LEVEL
(S.V.#16)	FIRE STANDPIPE RISER-2	P1 LEVEL
(S.V.#17)	FIRE STANDPIPE RISER-3	P1 LEVEL
(S.V.#18)	FIRE STANDPIPE RISER-4	P1 LEVEL
(S.V.#19)	FIRE STANDPIPE RISER-5	P1 LEVEL
(S.V.#20)	FHC IN PARKING	P1 LEVEL
(S.V.#21)	FHC IN PARKING	P1 LEVEL
(S.V.#22)	FHC IN PARKING	P1 LEVEL
(S.V.#23)	FHC IN PARKING	P1 LEVEL
(S.V.#24)	FHC IN PARKING	P1 LEVEL
(S.V.#25)	SPRINKLER SYSTEM ON GROUND FL. (SOUTH PART)	GROUND FLOOR
(S.V.#26)	SPRINKLER SYSTEM ON 2ND LEVEL (SOUTH PART)	2ND LEVEL
(S.V.#27)	SPRINKLER SYSTEM ON 3RD LEVEL (SOUTH PART)	3RD LEVEL
(S.V.#28)	SPRINKLER SYSTEM ON 4TH LEVEL (SOUTH PART)	4TH LEVEL
(S.V.#29)	SPRINKLER SYSTEM ON 5TH LEVEL (SOUTH PART)	5TH LEVEL
(S.V.#30)	SPRINKLER SYSTEM ON 6TH LEVEL (SOUTH PART)	6TH LEVEL
(S.V.#31)	SPRINKLER SYSTEM ON 7TH LEVEL (SOUTH PART)	7TH LEVEL
(S.V.#32)	SPRINKLER SYSTEM ON GROUND FL. (NORTH PART)	GROUND FLOOR
(S.V.#33)	SPRINKLER SYSTEM ON 2ND LEVEL (NORTH PART)	2ND LEVEL
(S.V.#34)	SPRINKLER SYSTEM ON 3RD LEVEL (NORTH PART)	3RD LEVEL
(S.V.#35)	SPRINKLER SYSTEM ON 4TH LEVEL (NORTH PART)	4TH LEVEL
(S.V.#36)	SPRINKLER SYSTEM ON 5TH LEVEL (NORTH PART)	5TH LEVEL
(S.V.#37)	SPRINKLER SYSTEM ON 6TH LEVEL (NORTH PART)	6TH LEVEL
(S.V.#38)	SPRINKLER SYSTEM ON 7TH LEVEL (NORTH PART)	7TH LEVEL
(S.V.#39)	SPRINKLER SYSTEM ON MECHANICAL PENTHOUSE	PENTHOUSE
(S.V.#40)	SPRINKLER RISER IN GARAGE CHUTE	

FIRE ALARM SCHEDULE

ALARM ZONES	DESCRIPTION
1	PARKING GARAGE - P1 (1 ZONE PER LEVEL)
2	ELEVATOR LOBBY - P1 (1 ZONE PER LEVEL)
3	SPARE
4	MAIN ELECTRICAL ROOM - P1 LEVEL
5	SUB-ELECTRICAL ROOM #1 - P1 LEVEL
6	SUB-ELECTRICAL ROOM #2 - P1 LEVEL
7	COMMUNICATION ROOM - P1 LEVEL
8	MECHANICAL ROOM - P1 LEVEL
9	GARAGE ROOM - P1 LEVEL
10	GARAGE LOADING AREA - P1 LEVEL
11	SPARE
12-17	1ST FLOOR
18	2ND FLOOR TO 7TH FLOOR
19	MECHANICAL PENTHOUSE
20	GENERATOR ROOM
21	PENTHOUSE ELECTRICAL ROOM
22	ELEVATOR MACHINE ROOM
23	ELEVATOR SHAFT
24	FRESH AIR UNIT DUCT DETECTOR MECH PENTHOUSE
25	STAR 'A' UPPER STAIR
26	STAR 'A' TOP OF UPPER STAIR
27	STAR 'A' LOWER STAIR
28	STAR 'A' TOP OF LOWER STAIR
29	STAR 'B' UPPER STAIR
30	STAR 'B' TOP OF UPPER STAIR
31	STAR 'B' LOWER STAIR
32	STAR 'B' TOP OF LOWER STAIR
33	STAR 'C' TOP OF STAIR
34	MAIN SPRINKLER FLOW ALARM
35	PARKING GARAGE LEVEL-1 SPRINKLER FLOW ALARM
36	GROUND FLOOR SOFT-AREA SPRINKLER FLOW ALARM
37	PARKING GARAGE LEVEL-1 LOADING AREA FLOW ALARM
38	WET SPRINKLER LINE TO GROUND FLOOR AMENITY FLOW ALARM
39	WET SPRINKLER LINE TO GARAGE ROOM FLOW ALARM
40	WET SPRINKLER LINE TO GROUND FLOOR COMMON FLOW ALARM
41	WET SPRINKLER LINE TO SECOND FLOOR COMMON FLOW ALARM
42	SPRINKLER SYSTEM ON GROUND FL. FLOW ALARM (SOUTH PART)
43	SPRINKLER SYSTEM ON 2ND LEVEL FLOW ALARM (SOUTH PART)
44	SPRINKLER SYSTEM ON 3RD LEVEL FLOW ALARM (SOUTH PART)
45	SPRINKLER SYSTEM ON 4TH LEVEL FLOW ALARM (SOUTH PART)
46	SPRINKLER SYSTEM ON 5TH LEVEL FLOW ALARM (SOUTH PART)
47	SPRINKLER SYSTEM ON 6TH LEVEL FLOW ALARM (SOUTH PART)
48	SPRINKLER SYSTEM ON 7TH LEVEL FLOW ALARM (SOUTH PART)
49	SPARE
50	SPARE
51	SPARE
52	SPRINKLER SYSTEM ON GROUND FL. FLOW ALARM (NORTH PART)
53	SPRINKLER SYSTEM ON 2ND LEVEL FLOW ALARM (NORTH PART)
54	SPRINKLER SYSTEM ON 3RD LEVEL FLOW ALARM (NORTH PART)
55	SPRINKLER SYSTEM ON 4TH LEVEL FLOW ALARM (NORTH PART)
56	SPRINKLER SYSTEM ON 5TH LEVEL FLOW ALARM (NORTH PART)
57	SPRINKLER SYSTEM ON 6TH LEVEL FLOW ALARM (NORTH PART)
58	SPRINKLER SYSTEM ON 7TH LEVEL FLOW ALARM (NORTH PART)
59	SPARE
60	SPARE
61	SPRINKLER RISER IN GARAGE CHUTE FLOW ALARM
62	SPARE 25%

TROUBLE ZONES

CTC #	DESCRIPTION
1	MAIN INCOMING SPRINKLER LINE LOSS OF PRESSURE - 1
2	MAIN INCOMING SPRINKLER LINE LOSS OF PRESSURE - 2
3	FIRE PUMP EMERGENCY DISCONNECT "OFF"
4	FIRE ALARM SYSTEM TROUBLE
5	FIRE PUMP-LOSS OF POWER
6	FIRE PUMP RUNNING
7	FIRE PUMP PHASE REVERSAL INDICATOR
8	GEN-SET-COMMON TROUBLE
9	GENERATOR BREAKER "OFF"
10	GENERATOR RUNNING
11	LOSS OF PRESSURE OF INCOMING GAS LINE FOR GENSET
12	LOSS OF PRESSURE OF GAS LINE TO GENSET
13	FIRE LINES TRACING POWER LOSS
14	COMPRESSOR LOSS OF POWER
15	COMPRESSOR LOSS OF AIR
16-17	DRY SPRINKLER LOSS OF AIR PRESSURE IN P1 PARKING LEVEL
18	JOCKEY PUMP LOSS OF POWER
19	TRANSFER SWITCH #10 NOT IN "AUTO"
20	TRANSFER SWITCH #20 NOT IN "AUTO"
21	TRANSFER SWITCH #30 NOT IN "AUTO"
22	TRANSFER SWITCH #40 NOT IN "AUTO"
23	EMERGENCY DISCONNECT #10 "OFF"
24	EMERGENCY DISCONNECT #20 "OFF"
25	EMERGENCY DISCONNECT #30 "OFF"
26	EMERGENCY DISCONNECT #40 "OFF"
27	LOW TEMP. T-STAT IN MECHANICAL ROOM - P1 LEVEL
28	HIGH CO LEVEL DETECTION IN MECHANICAL PENTHOUSE
29	HIGH CO LEVEL DETECTION IN PARKING GARAGE
30	PIPE TRACING LOSS OF POWER **
31	SNOW MELTING LOSS OF POWER **
32	SPARE 25%
33	** NUMBER OF ZONES TO SUIT CODE REQUIREMENT

08 CM REVISED AS PER SI E-11 2017-10-04

07 CM REVISED AS PER SI E-5 2017-08-23

06 CM ISSUED FOR CONSTRUCTION 2017-08-09

05 CM PROGRESS FOR CONSTRUCTION 2017-07-18

04 CM ISSUED FOR PERMIT 2016-12-28

03 CM REVISED AS PER SI E-2 2016-10-04

02 CM REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION 2016-05-19

01 CM ISSUED FOR TENDER 2016-03-15

NO.	BY	DESCRIPTION	DATE
REVISIONS			

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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 are graphic representations only.

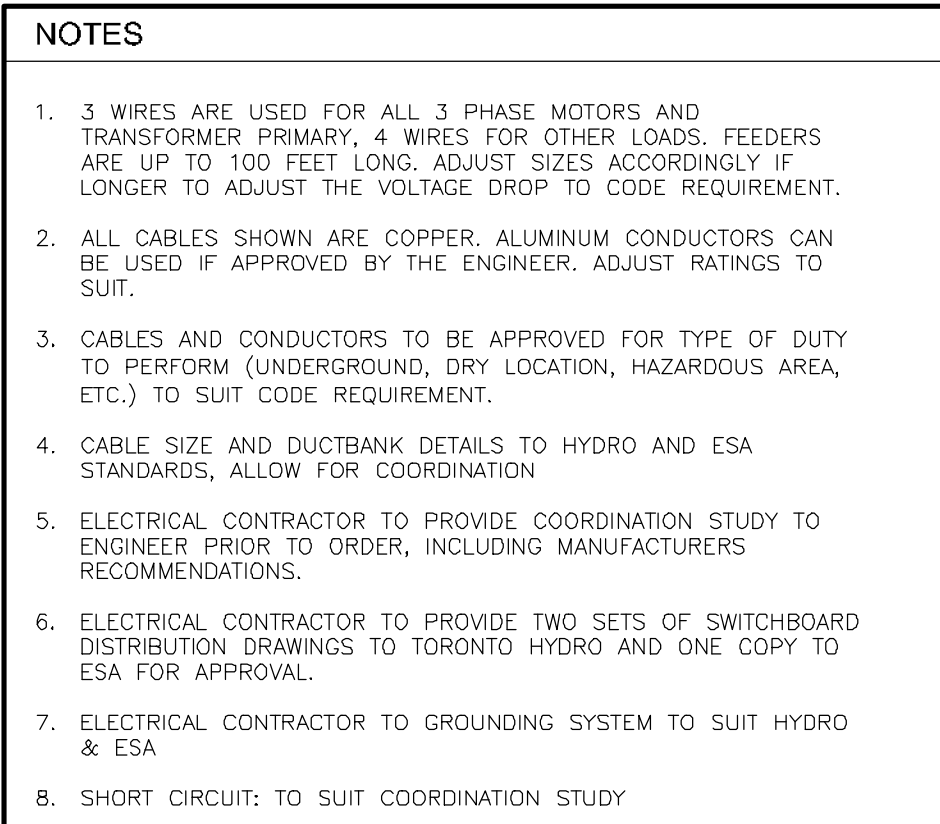
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Mechanical/Electrical Consulting Engineers
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Tel: (416) 398 1999, Fax: (416) 398 1933

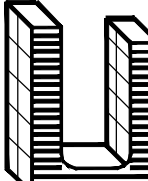
POWER, COMMUNICATION, SECURITY AND FIRE ALARM RISER DIAGRAMS

PROPOSED RESIDENTIAL DEVELOPMENT
25 BAKER HILL BLVD.

ROYAL PINE HOMES
STOUFFVILLE, ONTARIO

DRAWN	CM	CHECKED	MG	SCALE	N.T.S.
DATE	SEPT. 2015	PROJECT	14-016	DRAWING	E-10
				OF	12





United Engineering Inc.

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TITLE SINGLE LINE DIAGRAM ELECTRICAL		
PROJECT PROPOSED RESIDENTIAL DEVELOPMENT 25 BAKER HILL BLVD.		
ROYAL PINE HOMES STOUFFVILLE, ONTARIO		
DRAWN CM DATE SEPT. 2015	CHECKED MG PROJECT 14-016	SCALE N.T.S. DRAWING E-11 OF 12

PANEL IDENTIF:	B	SERVICE: 208Y/120V, 3ø, 4W MAIN CCT. BRK: - MANS: 225 AMPS MOUNTING: SURFACE	NOTES:				
		LOCATION:					
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LIGHTING - LOCKERS (P1)		15A	1	2	15A		RECEPTABLES - LOBBY ELEVATORS
LIGHTING - LOCKERS (P1)		15A	3	4	15A		RECEPTABLES - STAR A (P1)
LIGHTING - MECH. RM. (P1)		15A	5	6	15A		RECEPTABLES - STAR B (P1)
LGT. - GARBAGE/REC/BUCK (P1)		15A	7	8	15A		RECEPTABLES - STAR C (P1)
REC - GARBAGE/REC/BUCK (P1)		15A	9	10	15A		RECEPTABLES - STAR D (P1)
TRISORT - GARBAGE (P1)		20A	11	12	15A		SPARE
RECEPT. - ELEVATOR LOBBY (P1)		15A	13	14	15A		RECEPT. - LOCKERS (P1)
SPARE		15A	15	16	15A		RECEPT. - LOCKERS (P1)
		15A	17	18	15A		RECEPTABLE - MAIN ELEC. (P3)
		15A	19	20	15A		RECEPTABLE - MECH. RM. #1 (P1)
		15A	21	22	15A		REC. - SUB-ELECT. 1/COMM. (P1)
		15A	23	24	15A		RECEPTABLE - SUB-ELECT. 2 (P1)
		15A	25	26	15A		SPARE
		15A	27	28	15A		SPARE
		15A	29	30	15A		SPARE
		15A	31	32			SPACE
		15A	33	34			
		15A	35	36			
		15A	37	38			
		15A	39	40			
		15A	41	42			

PANEL IDENTIF:	EB	SERVICE: MAIN CCT. BRK: - MANS: 225 AMPS MOUNTING: SURFACE	208Y/120V, 3ø, 4W			NOTES: *** LOCK ON BREAKER LOCATION:	
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LIGHTING - LOBBY ELEVATORS		15A	1	2	15A		EXIT SIGNS - (P1) ***
LIGHTING - STAR A (P1)		15A	3	4	15A		EXIT SIGNS - (P1) ***
LIGHTING - STAR B (P1)		15A	5	6	15A		LOWER STAR PRESS FAN 'F-9' SA
LIGHTING - STAR C (P1)		15A	7	8	15A		LOWER STAR PRESS FAN 'F-9' SB
LIGHTING - STAR D (P1)		15A	9	10	15A		LOWER STAR PRESS FAN 'F-9' SC
SPARE		15A	11	12	15A		SPARE
LIGHTING - LOCKERS (P1)		15A	13	14	15A		
LIGHTING - LOCKERS (P1)		15A	15	16	15A		
LIGHTING - MAIN ELEC. (P1)		15A	17	18	15A		
LIGHTING - MECH. RM. (P1)		15A	19	20	15A		
LGT. - SUB-ELEC./COMM. (P1)		15A	21	22	15A		
LGT. - GARBAGE/REC/BUCK (P1)		15A	23	24	15A		
SPARE		15A	25	26	15A		
		15A	27	28			
		15A	29	30			
		15A	31	32			SPACE
		15A	33	34			
		15A	35	36			
		15A	37	38			
		15A	39	40			
		15A	41	42			

PANEL IDENTIF:	SUITE (TYPICAL)	SERVICE: MAIN CCT. BRK: 120/208V, 1ø, 3ø MANS: 125 AMPS MOUNTING: RECESSED	NOTES:				
		LOCATION:					
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LTC, RECEPT. & SMOKE ALARM	1000	15A	1	2	15A**	1000	KITCHEN GFI SPLIT RECEPTACLE **
LIGHTING & RECEPTABLES	1000	15A	3	4	2P		
LIGHTING & RECEPTABLES	1000	15A	5	6	15A	1000	SPLIT RECEPTACLE
LIGHTING & RECEPTABLES	1000	15A	7	8	2P		
LIGHTING & RECEPTABLES	1000	15A	9	10	50A	6000	RANGE (3 #0)
EXTERIOR REC. GFI AS REQUIRED	500	15A	11	12	2P		
GFI RECEPTACLE	1000	15A	13	14	15A	800	FRIDGE
FAN COIL UNIT *	1000	15A**	15	16	30A	3000	DRYER
FAN COIL UNIT **	**	1000	15A**	17	18	2P	
AUTO FLUSH TOILET *	15A	19	20	15A	1000	WASHER	
SPARE	15A	21	22	15A	1000	DISHWASHER	
SEPARATE RECEPTACLE **	500	15A	23	24	15A**		BATHRM. HEATER (TOP FLOOR)**
COMBO MICROWAVE HOOD/FAN **	15A**	25	26	15A**	1000	MICROWAVE	
DRYER EXHAUST FAN	15A	27	28	15A**	1000	SPLIT RECEPTACLE	
WINDOW A/C UNIT	**	1000	15A	29	30	2P	
SPARE	15A	31	32				SPACE
	15A	33	34				
	15A	35	36				
	15A	37	38				
	15A	39	40				
	15A	41	42				

PANEL IDENTIF:	SUITE (TYPICAL)	SERVICE: MAIN CCT. BRK: 120/208V, 1ø, 3ø MANS: 100 AMPS MOUNTING: SURFACE	NOTES:				
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION	
LTC, RECEPT. & SMOKE ALARM	1000	15A	1	2	15A**	1000	KITCHEN GFI SPLIT RECEPTACLE
LIGHTING & RECEPTABLES	1000	15A	3	4	2P		
LIGHTING & RECEPTABLES	1000	15A	5	6	15A	1000	SPLIT RECEPTACLE
LIGHTING & RECEPTABLES	1000	15A	7	8	2P		
LIGHTING & RECEPTABLES	1000	15A	9	10	50A	6000	RANGE (3 #)
EXTERIOR REC. GFI AS REQUIRED	500	15A	11	12	2P		
GFI RECEPTACLE	1000	15A	13	14	15A	800	FRIDGE
FAN COIL UNIT	1000	15A**	15	16	30A	3000	DRYER
FAN COIL UNIT	**	1000	15A**	17	18	2P	
AUTO FLUSH TOILET *	15A	19	20	15A	1000	WASHER	
SPARE	15A	21	22	15A	1000	DISHWASHER	
SEPARATE RECEPTACLE **	500	15A	23	24	15A**		BATHRM. HEATER (TOP FLOOR)**
COMBO MICROWAVE HOOD/FAN **	15A**	25	26	15A**	1000	MICROWAVE	
DRYER EXHAUST FAN	15A	27	28	15A**	1000	SPLIT RECEPTACLE	
WINDOW A/C UNIT	**	1000	15A	29	30	2P	
SPARE	15A	31	32				
	15A	33	34				
	15A	35	36				
	15A	37	38				
	15A	39	40				
	15A	41	42				

NOTES:

- CONFIRM ELEC REQUIREMENTS WITH UNITS SHOP DWGS (FOR EACH DIFFERENT SUITE/UNIT)
- IF NOT APPLICABLE AND REQUIRED, TO BE ADDED TO UNITS LAYOUTS. LIST PROVIDE SPANS
- PANELS A/C TRIP-OUT OR SOLT-ON BREAKER
- PANELS SHALL BE SIZED FOR THE USE OF DOUBLE BREAKERS WHICH SHALL BE USED TO CARRY THE ACTUAL PROPORTION OF THE LOADS
- PROVIDE FIRE STOPPING IN CONDUIT AT PANEL AND IN ELECTRICAL CLOSET IN ACCORDANCE TO CODE

PANEL IDENTIF:	C	SERVICE: MAIN CCT. BRK: 208Y/120V, 3ø, 4W MANS: 225 AMPS MOUNTING: SURFACE	NOTES:				
		LOCATION:					
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
RECEPTABLES - AMENITY (1ST)		15A	1	2	15A		RECEPTABLES - STAR C (1ST)
RECEPTABLES - AMENITY (1ST)		15A	3	4	15A		RECEPTABLES - CORRIDOR (1ST)
RECEPTABLES - AMENITY (1ST)		15A	5	6	15A		RECEPTABLES - CORRIDOR (1ST)
RECEPTABLES - AMENITY (1ST)		15A	7	8	15A		RECEPTABLES - ENTRANCE (1ST)
TV RECEPTABLES-AMENITY (1ST)		15A	9	10	15A		RECEPTABLES - LOBBY (1ST)
FIREPLACE - AMENITY (1ST)		15A	11	12	15A		RECEPTABLES - LOBBY (1ST)
FLOOR REC. - AMENITY (1ST)		15A	13	14	15A		FIREPLACE REC. - LOBBY (1ST)
FL EQUIP REC - AMENITY (1ST)		15A	15	16	15A		RECEPTABLE - CAFET ROOM (1ST)
FL EQUIP REC - AMENITY (1ST)		15A	17	18	15A		CONCRETE FL REC - (1ST)
SPARE		15A	19	20	15A		REC. - M OFFICE/MAIL (1ST)
ELECTRICAL RM - AMENITY (1ST)		15A	21	22	15A		RECEPTABLES - M OFFICE (1ST)
EXT. BBQ REC - AMENITY (1ST)		15A	23	24	15A		RECEPTABLES - M OFFICE (1ST)
EXT. BBQ REC - AMENITY (1ST)		15A	25	26	15A		GFI RECEPTABLES - WC (1ST)
EXTERIOR REC. - AMENITY (1ST)		15A	27	28	15A		GFI RECEPTABLES - WC (1ST)
EXTERIOR REC. - AMENITY (1ST)		15A	29	30	15A		SPARE
GFI RECEPTABLE-DOO SPA (1ST)		15A	31	32	15A		FRIDGE - AMENITY (1ST)
GFI RECEPTABLE-DOO SPA (1ST)		15A	33	34	15A		COUNTER REC - AMENITY (1ST)
LIGHTING - LOBBY (1ST)		15A	35	36	15A		
LIGHTING - LOBBY (1ST)		15A	37	38	15A		
LIGHTING - AMENITY (1ST)		15A	39	40	15A		COUNTER REC - AMENITY (1ST)
LIGHTING - AMENITY (1ST)		15A	41	42	15A		
LIGHTING - AMENITY (1ST)		15A	43	44	15A		DISHWASHER - AMENITY (1ST)
MOTORIZED BLINDS-LOBBY (1ST)		15A	45	46	15A		COOKTOP - AMENITY (1ST)
		15A	47	48	15A		MICRO/HOOD FAN - AMENITY
		15A	49	50	15A		STOVE - AMENITY (1ST)
		15A	51	52	15A		DOOR HOLD OPEN DEVICE
		15A	53	54	15A		DOOR HOLD OPEN DEVICE
		15A	55	56	15A		SPARE
		15A	57	58	15A		
		15A	59	60	15A		
		15A	61	62			SPACE
		15A	63	64			
		15A	65	66			
		15A	67	68			
		15A	69	70			
		15A	71	72			

		15A	49		50	15A	DOOR HOLD OPEN DEVICE
			51		52	15A	DOOR HOLD OPEN DEVICE
		15A	53		54	15A	DOOR HOLD OPEN DEVICE
		15A	55		56	15A	SPARE
		15A	57		58	15A	
		15A	59		60	15A	
SPACE			61		62		SPACE
			63		64		
			65		66		
			67		68		
			69		70		
			71		72		

PANEL IDENTIF: EC	SERVICE: MAIN CCT. BRK: 208Y/120V, 3ø, 4W	NOTES: *** LOCK ON BREAKER				
	WAND MOUNTING: SURFACE	LOCATION:				
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LIGHTING - STAR C (1ST FL.)	15A	1	2	15A		EXIT SIGNS STAR C (1ST) ***
LIGHTING - DOG SPA (1ST FL.)	15A	3	4	15A		EXIT SIGNS - LOBBY (1ST) ***
LIGHTING - LOBBY (1ST FL.)	15A	5	6	15A		EXIT SIGNS - AMENITY (1ST) ***
LIGHTING - LOBBY (1ST FL.)	15A	7	8	15A		SPARE
LIGHTING - LOBBY (1ST FL.)	15A	9	10	15A		
LIGHTING - AMENITY (1ST FL.)	15A	11	12	15A		

SPARE	15A	19	20	15A				
	15A	21	22	15A				
	15A	23	24	15A				
	15A	25	26	15A				
	15A	27	28	15A				
	15A	29	30	15A				
SPACE	31	32			SPACE			
	33	34						
	35	36						
	37	38						
	39	40						
	41	42						

PANEL IDENTIFY: ECN	SERVICE: MAIN CCT. BRK: 208Y/120V, 3ø, 4W	NOTES:				
	MANS: 225 AMPS SURFACE	LOCATION:				
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
CO CONTROL PANEL	15A	1	2	15A		DO NOT ENTER SIGN (P1)
ENTERPHONE CONTROL PANEL	15A	3	4	15A		AUTO DOOR OPENER ENTR.(1ST)
SECURITY REVER CONTROL PANEL	15A	5	6	15A		AUTO DOOR OPENER (GND WC)
TEL./TV RECEPTABLES	15A	7	8	15A		SPARE
TEL./TV RECEPTABLES	15A	9	10	15A		
ENTERPHONE PANEL-MAIN ENTR.	15A	11	12	15A		

PANEL IDENTIF:	D	SERVICE: 208Y/120V, 3ø, 4W MAIN CCT. BRK: WATTS: 225 AMPS MOUNTING: SURFACE				NOTES:	
		LOCATION:					
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
STAIR A RECEPTABLES (2ND-7TH)		15A	1	2	15A		CORRIDOR RECEPT. (2ND-7TH)
STAIR B RECEPTABLES (2ND-7TH)		15A	3	4	15A		CORRIDOR RECEPT. (2ND-7TH)
SPARE		15A	5	6	15A		CORRIDOR RECEPT. (2ND-7TH)
RECEPTABLES - GUESS RM (1ST)		15A	7	8	15A		CORRIDOR RECEPT. (2ND-7TH)
RECEPTABLES - GUESS RM (1ST)		15A	9	10	15A		CORRIDOR RECEPT. (2ND-7TH)
DISHWASHER - GUESS RM (1ST)		15A	11	12	15A		CORRIDOR RECEPT. (2ND-7TH)
COUNTER REC - GUESS RM (1ST)		15A	13	14	15A		CORRIDOR RECEPT. (2ND-7TH)
COUNTER REC - GUESS RM (1ST)		15A	15	16	15A		CORRIDOR RECEPT. (2ND-7TH)
WC GFI REC. - GUESS RM (1ST)		15A	17	18	15A		CORRIDOR RECEPT. (2ND-7TH)
WC EX FAN - GUESS RM (1ST)		15A	19	20	15A		CORRIDOR RECEPT. (2ND-7TH)
FAN COIL - GUESS RM (1ST)		15A	21	22	15A		CORRIDOR RECEPT. (2ND-7TH)
RECEPTABLE LOCKERS (2ND-7TH)		15A	23	24	15A		CORRIDOR RECEPT. (2ND-7TH)
CONDENSATE NEUTRALIZATION KIT		15A	25	26	15A		LIGHTING - LOCKER (2ND-7TH)
RECEPTABLE LOCKERS (2ND-7TH)		15A	27	28	15A		LIGHTING - LOCKER (2ND-7TH)
CONDENSATE NEUTRALIZATION KIT		15A	29	30	15A		SPARE
SPARE		15A	31	32	15A		
		15A	33	34	15A		
		15A	35	36	15A		
		15A	37	38	15A		
		15A	39	40	15A		
		41	42	15A			

PANEL IDENTIF:	ED	SERVICE: 208Y/120V, 3ø, 4W			NOTES:		
		MAIN CCT. BRK:	MANS:	225 AMPS			
		MOUNTING: SURFACE			LOCATION:		
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
LIGHTING - STAIR A (1ST-3RD)		15A	1	2	15A		EXIT SIGNS STAIR A (1ST-7TH) ***
LIGHTING - STAIR A (4TH-PH)		15A	3	4	15A		EXIT SIGNS STAIR B (1ST-7TH) ***
LIGHTING - STAIR B (1ST-3RD)		15A	5	6	15A		EXIT SIGNS CORRIDOR (1ST-7TH) ***
LIGHTING - STAIR B (4TH-PH)		15A	7	8	15A		EXIT SIGNS CORRIDOR (1ST-7TH) ***
LIGHTING - GARBAGE CHUTE		15A	9	10	15A		EXIT SIGNS CORRIDOR (1ST-7TH) ***
SPARE		15A	11	12	15A		LIGHTING - CORRIDOR (2ND-3RD)
LIGHTING - GUESS RM. (1ST)		15A	13	14	15A		LIGHTING - CORRIDOR (2ND-3RD)
LIGHTING - LOCKER (2ND-7TH)		15A	15	16	15A		LIGHTING - CORRIDOR (2ND-3RD)
LIGHTING - LOCKER (2ND-7TH)		15A	17	18	15A		LIGHTING - CORRIDOR (4TH-5TH)
SPARE		15A	19	20	15A		LIGHTING - CORRIDOR (4TH-5TH)
LIGHTING - LOCKER (2ND-7TH)		15A	21	22	15A		LIGHTING - CORRIDOR (4TH-5TH)
SPARE		15A	23	24	15A		LIGHTING - CORRIDOR (6TH-7TH)
		15A	25	26	15A		LIGHTING - CORRIDOR (6TH-7TH)
		15A	27	28	15A		LIGHTING - CORRIDOR (6TH-7TH)
		15A	29	30			SPACE
		15A	31	32			
		15A	33	34			
		15A	35	36			
		15A	37	38			
		15A	39	40			
		15A	41	42			