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#### SITE INSTRUCTION

PROJECT: HAMPTON MANOR

PROJECT NO: 14-016

25 BAKER HILL BLVD STOUFFVILLE, ONTARIO

CONTRACT: Electrical

DATE October 18, 2017

SITE INSTRUCTION: E-13

THIS SITE INSTRUCTION IS NOT TO BE CONSTRUED AS A CHANGE IN THE CONTRACT PRICE, BUT IS ISSUED FOR CLARIFICATION ONLY. IF A CHANGE IN CONTRACT PRICE IS PERCEIVED, PROVIDE AN ITEMIZED BREAKDOWN OF ANY EXTRAS OR CREDITS WITHIN SEVEN (7) WORKING DAYS.

**Purpose:** As per client request, interior designer and shop drawings and for clarifications.

#### 1.0 Reference Drawing E-3A (Ground Floor - A) Issued

1.1 Add:

One (1) light switch and one (1) type 'C' lighting fixture in front of

laundry room in suites 111 and 119.

1.2 Add:

Six (6) type 'SC-01' wall sconce fixtures at lobby.

## 2.0 Reference Drawing E-4A (2<sup>nd</sup> Floor - A) Issued

2.1 Relocate:

One (1) switch receptacle, one (1) phone and one (TV) outlets and three

(3) receptacles and suite security panel in suite 222.

Note: This also applies to suites 205, 305, 323, 405, 423, 505, 523, 604

and 619.

### 3.0 Reference Drawing E-9B (Details - B) Issued

3.1 Clarify:

Lighting type 'WS1' to be 'SC-01' in Interior designer lighting fixture

schedule.

#### 4.0 Reference Drawing E-11 (Single Line Diagram) Issued

4.1 Revise:

Fuse size for chiller to be 400A to suit shop drawings.

Note: The site instruction & drawings will be uploaded to FTP SITE

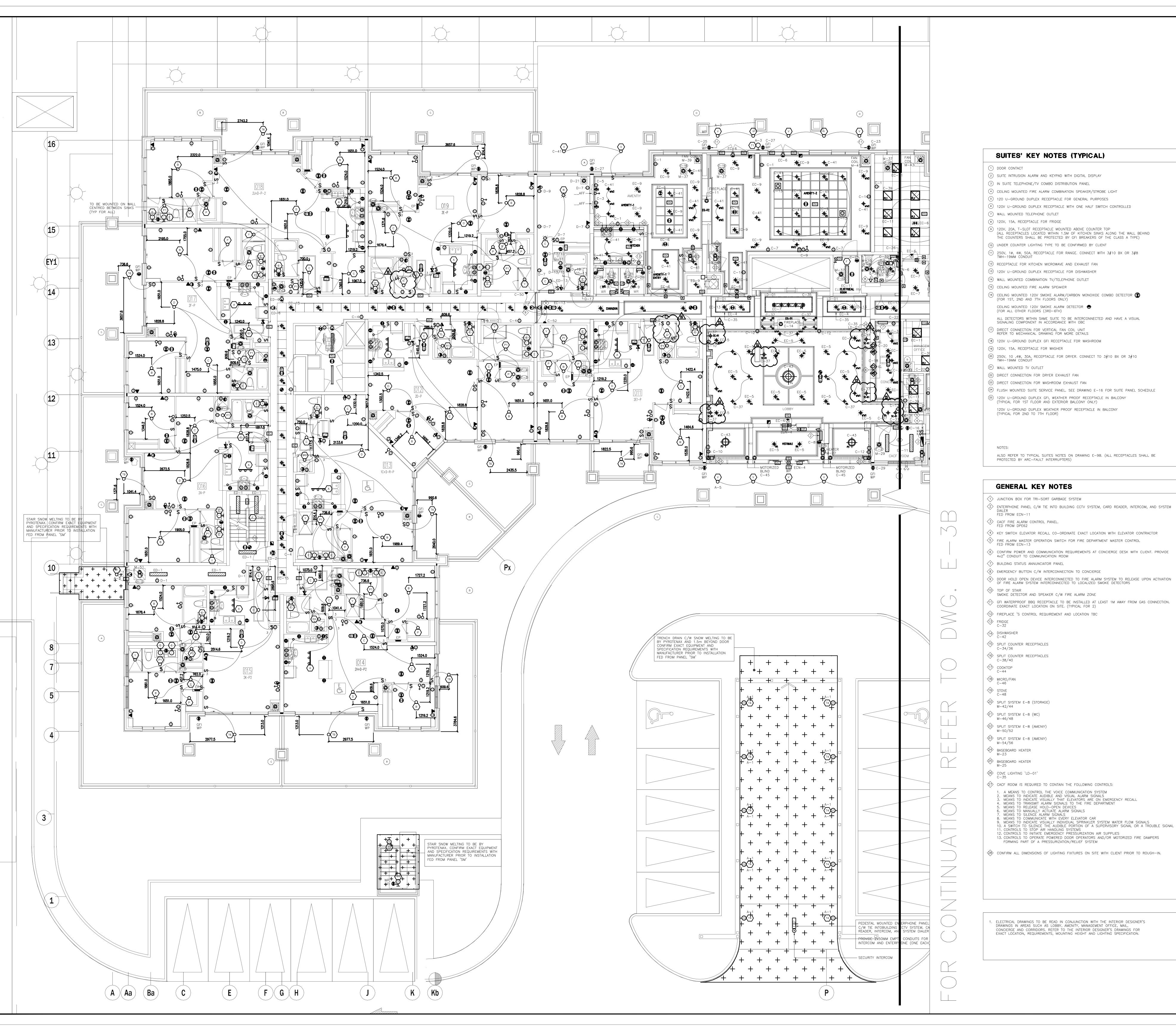
PREPARED BY: \_\_\_\_\_Cheelas.

Chula Meksavanh Electrical Department

ISSUED TO ROYAL PINE HOMES,

Cinzia Caruso, Cinzia@royalpinehomes.com; Vince Staffieri, vince@royalpinehomes.com FOR DISTRIBUTION TO ALL AFFECTED PARTIES.

cc. GRAZIANI + CORAZZA ARCH. INC., Gino Colangelo, GColangelo@gc-architects.com DINEEN CONSTRUCTION CORP., Chuck Clark, cclark@dineen.com; Jeffrey Ellis, jellis@dineen.com; Ric Wight, rwight@dineen.com



## SUITES' KEY NOTES (TYPICAL)

2) SUITE INTRUSION ALARM AND KEYPAD WITH DIGITAL DISPLAY

(5) 120 U-GROUND DUPLEX RECEPTACLE FOR GENERAL PURPOSES

(8) 120V, 15A, RECEPTACLE FOR FRIDGE

(9) 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)

10) UNDER COUNTER LIGHTING TYPE TO BE CONFIRMED BY CLIENT

(13) 120V U-GROUND DUPLEX RECEPTACLE FOR DISHWASHER

(14) WALL MOUNTED COMBINATION TV/TELEPHONE OUTLET

(16) 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 OBC

(18) 120V U-GROUND DUPLEX GFI RECEPTACLE FOR WASHROOM

(19) 120V, 15A, RECEPTACLE FOR WASHER

0) 250V. 10 .4W. 30A. RECEPTACLE FOR DRYER. CONNECT TO 3#10 BX OR 3#10

(23) DIRECT CONNECTION FOR WASHROOM EXHAUST FAN

[24] FLUSH MOUNTED SUITE SERVICE PANEL. SEE DRAWING E-16 FOR SUITE PANEL SCHEDULE 25) 120V U-GROUND DUPLEX GFI, WEATHER PROOF RECEPTACLE IN BALCONY

120V U-GROUND DUPLEX WEATHER PROOF RECEPTACLE IN BALCONY

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

# **GENERAL KEY NOTES**

1> JUNCTION BOX FOR TRI—SORT GARBAGE SYSTEM

(4) KEY SWITCH ELEVATOR RECALL CO-ORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR

5 FIRE ALARM MASTER OPERATION SWITCH FOR FIRE DEPARTMENT MASTER CONTROL FED FROM ECN-13 6> CONFIRM POWER AND COMMUNICATION REQUIREMENTS AT CONCIERGE DESK WITH CLIENT. PROVIDE

4x2" CONDUIT TO COMMUNICATION ROOM

(7) BUILDING STATUS ANNUNCIATOR PANEL

8 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

SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE 1) GFI WATERPROOF BBQ RECEPTACLE TO BE INSTALLED AT LEAST 1M AWAY FROM GAS CONNECTION.

(12) FIREPLACE 'S CONTROL REQUIREMENT AND LOCATION TBC

⟨2⟩ CACF ROOM IS REQUIRED TO CONTAIN THE FOLLOWING CONTROLS:

1. A MEANS TO CONTROL THE VOICE COMMUNICATION SYSTEM 2. MEANS TO INDICATE AUDIBLE AND VISUAL ALARM SIGNALS
3. MEANS TO INDICATE VISUALLY THAT ELEVATORS ARE ON EMERGENCY RECALL

4. MEANS TO TRANSMIT ALARM SIGNALS TO THE FIRE DEPARTMENT

5. MEANS TO RELEASE HOLD-OPEN DEVICES 6. MEANS TO MANUALLY ACTUATE ALARM SIGNALS
7. MEANS TO SILENCE ALARM SIGNALS

8. MEANS TO COMMUNICATE WITH EVERY ELEVATOR CAR 9. MEANS TO COMMONICATE WITH EVERT ELEVATOR CAR 9. MEANS TO INDICATE VISUALLY INDIVIDUAL SPRINKLER SYSTEM WATER FLOW SIGNALS 10. A SWITCH TO SILENCE THE AUDIBLE PORTION OF A SUPERVISORY SIGNAL OR A TROUBLE SIGNAL

11. CONTROLS TO STOP AIR HANDLING SYSTEMS 12. CONTROLS TO INITIATE EMERGENCY PRESSURIZATION AIR SUPPLIES 13. CONTROLS TO OPERATE POWERED DOOR OPERATORS AND/OR MOTORIZED FIRE DAMPERS

FORMING PART OF A PRESSURIZATION/RELIEF SYSTEM

28 CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO ROUGH-IN.

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.

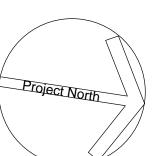
1	СМ	ISSUED FOR AS PER SI E-13	2017-10-18
0	СМ	ISSUED FOR AS PER SI E-10	2017-09-12
)9	СМ	ISSUED FOR AS PER SI E-8	2017-08-29
8(	СМ	ISSUED FOR AS PER SI E-4	2017-08-17
)7	СМ	ISSUED FOR AS PER SI E-3	2017-08-11
)6	СМ	ISSUED FOR CONSTRUCTION	2017-08-09
)5	СМ	PROGRESS FOR CONSTRUCTION	2017-07-18
)4	СМ	ISSUED FOR PERMIT	2016-12-28
)3	СМ	REVISED AS PER ADD E-1	2016-12-12
)2	СМ	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
1	СМ	ISSUED FOR TENDER	2016-03-15
10.	BY	DESCRIPTION	DATE

# **REVISIONS**

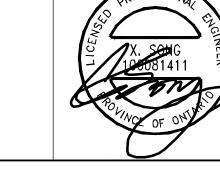
This drawing, is an instrument of service, is provided by and is the property of United Engineering Inc. The contractor must verify and accept responsibility for all dimensions and conditions on site and must notify United Engineering Inc. of any discrepancy before United Engineering Inc. is not responsible 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

This drawing is not to be scaled, all symbols are

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graphic representations only.





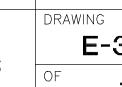
United Engineering Inc. Mechanical Electrical Consulting Engineers 3645 Keele Street, Suite 105, Toronto, Ontario, M3J 1M6 Tel: (416) 398 1999, Fax: (416) 398 1933

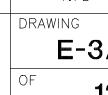
GROUND FLOOR PLAN - A **ELECTRICAL** 

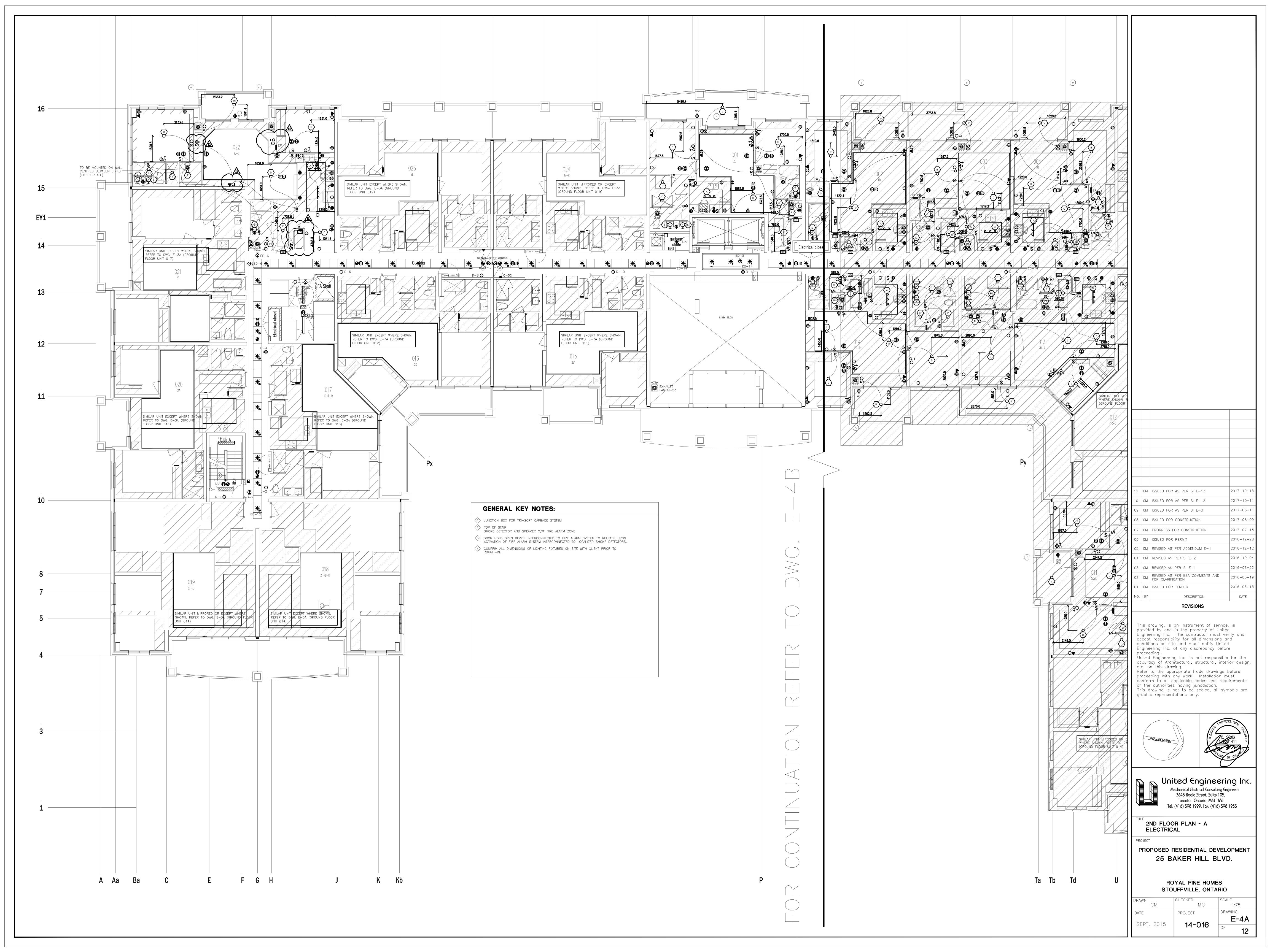
PROPOSED RESIDENTIAL DEVELOPMENT 25 BAKER HILL BLVD.

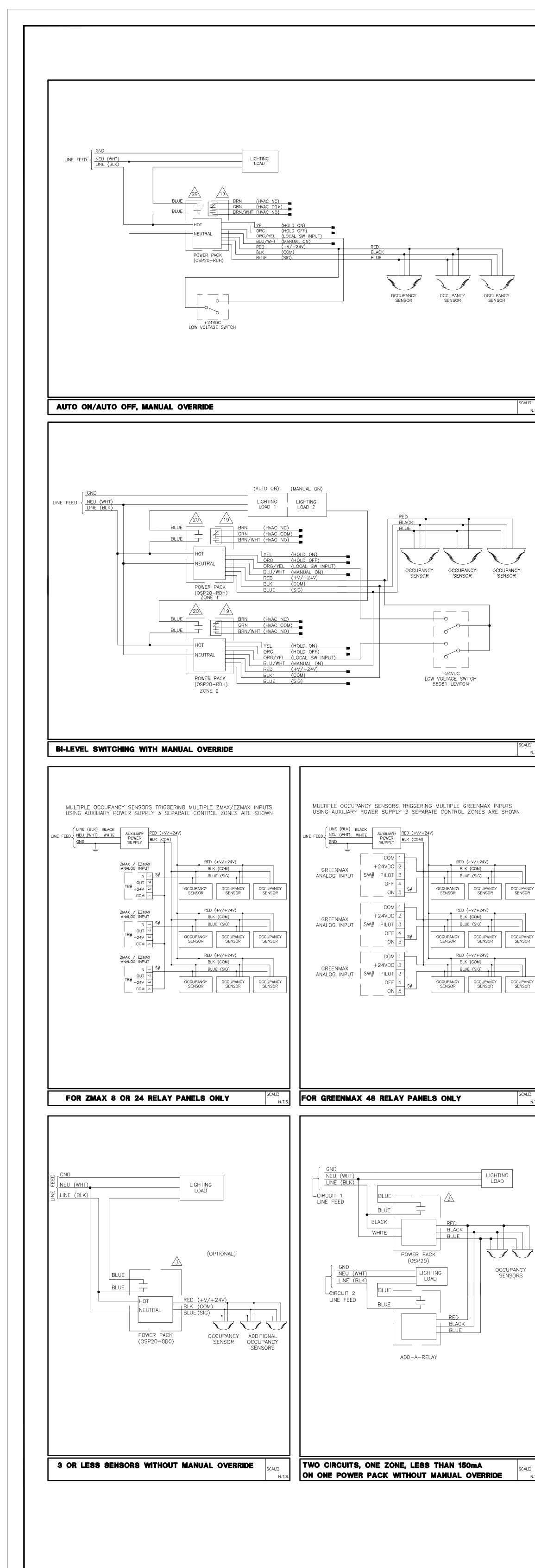
> ROYAL PINE HOMES STOUFFVILLE, ONTARIO

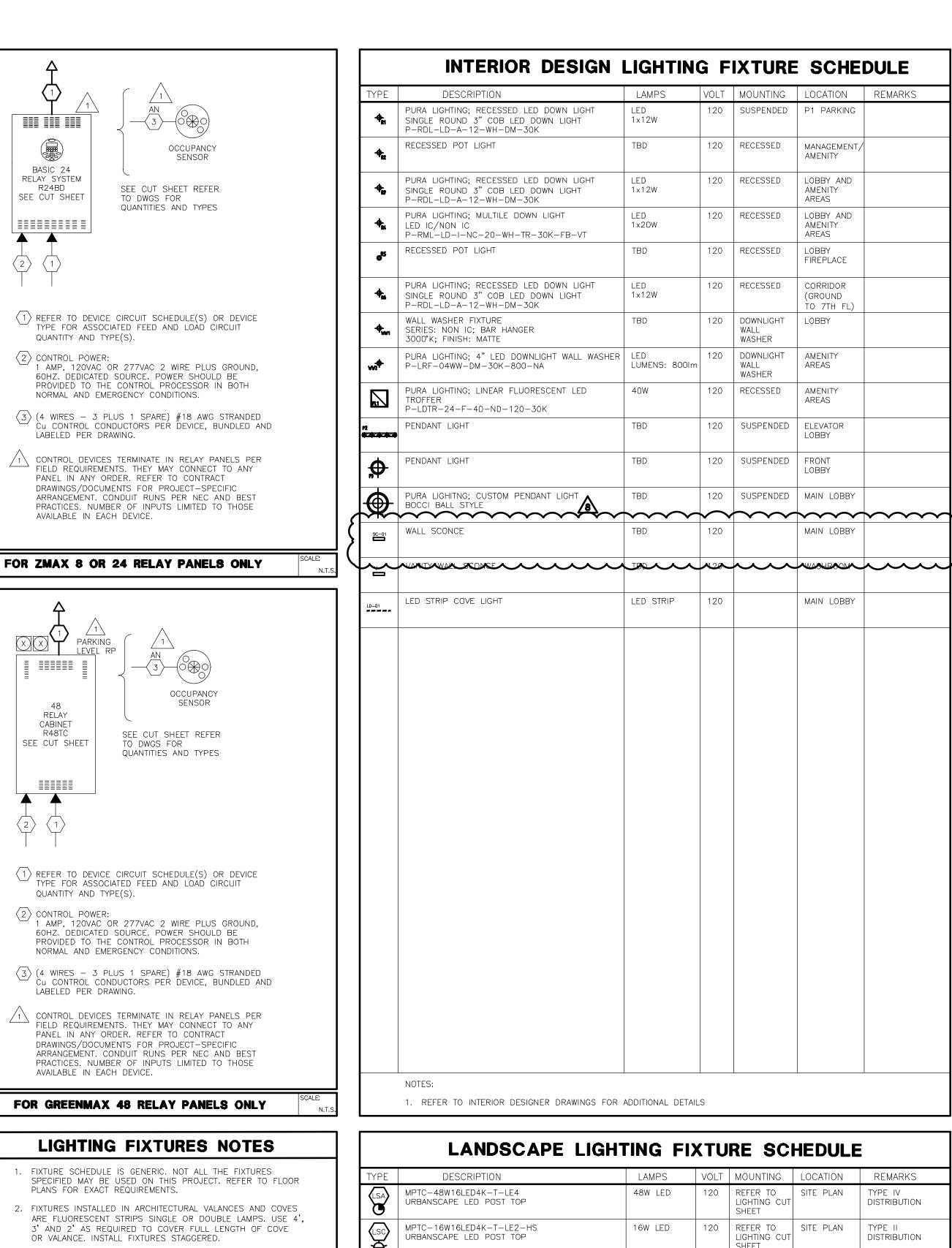
1:75 DRAWING PROJECT SEPT. 2015











BASIC 24

RELAY SYSTEM

R24BD

SEE CUT SHEE

QUANTITY AND TYPE(S).

LABELED PER DRAWING.

AVAILABLE IN EACH DEVICE.

RELAY

CABINET R48TC

SEE CUT SHEET

QUANTITY AND TYPE(S).

LABELED PER DRAWING.

AVAILABLE IN EACH DEVICE.

PLANS FOR EXACT REQUIREMENTS.

(MAGNETIC ENERGY SAVING IN SUITES).

ENGINEER AND/OR INTERIOR DESIGNER.

INSTALLATION ON SITE.

DESIGN DRAWINGS).

SUIT INSTALLATION ON SITE.

3. ALL FLUORESCENT FIXTURES SHALL BE C/W T-8 LAMPS OF

4. FIXTURES TO BE AS SPECIFIED OR APPROVED EQUAL BY

5. COMPACT FLUORESCENT FIXTURES TO BE C/W ENCAPSULATED

FIXTURES SHOWN AS EMERGENCY FED TO BE COMPLETE WITH

HPF BALLASTS, NPF BALLASTS WITH IS NOT ACCEPTABLE.

6. ALL HID BALLASTS SHALL BE OF THE HPF TYPE. ALL HID

QUARTZ RESTRIKE, WHETHER IT IS INDICATED OR NOT.

7. ALL 'ID' FIXTURE SHOP DRAWINGS TO BE APPROVED BY THE

8. ALL 'LS' FIXTURE SHOP DRAWINGS TO BE APPROVED BY THE

9. ALL FIXTURES USED WITHIN INSULATED CEILING TO BE I.C.

10. LIGHTING FIXTURE SUPPLIER TO PROVIDE AT TIME OF SHOP

POINT CALCULATIONS OF TYPICAL GARAGE AREA, TYPICAL

MEANS OF EGRESS. AREAS ARE TO REFLECT ACTUAL

AS PER OUR DRAWINGS READ IN CONJUNCTION WITH

11. LIGHTING FIXTURES THAT ARE CONTROLLED BY OCCUPANCY

SENSOR TO BE C/W PROGRAM START BALLASTS.

ARCHITECTURAL, STRUCTURAL, LANDSCAPE, AND INTERIOR

DRAWINGS. COMPUTER GENERATED LIGHTING LEVEL POINT BY

CORRIDORS, SWIMMING POOL/SPA, AND EXTERIOR EMERGENCY

CHARACTERISTICS (IE. CEILING HEIGHT, AND FIXTURE SPACING

LANDSCAPE DESIGNER, CONTRACTOR TO REVISE FIXTURE TO

INTERIOR DESIGNER. CONTRACTOR TO REVISE FIXTURE TO SUIT

WATTAGE AS SHOWN, ALL FLUORESCENT BALLASTS IN HEATED COMMON AREAS SHALL BE ADVANCE 'REL' SERIES (OR EQUAL)

TO DWGS FOR

NORMAL AND EMERGENCY CONDITIONS.

 $\langle 2 \rangle$  CONTROL POWER:

**A A** 

	LANDSCAPE LI	GHTING F	IXTU	RE SC	HEDULI	E
YPE	DESCRIPTION	LAMPS	VOLT	MOUNTING	LOCATION	REMARK
LSA	MPTC-48W16LED4K-T-LE4 URBANSCAPE LED POST TOP	48W LED	120	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE IV DISTRIBUTI
	MPTC-16W16LED4K-T-LE2-HS URBANSCAPE LED POST TOP	16W LED	120	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE II DISTRIBUTI
LSD	RFM-72W32LED4K-T-4 ROAD FOCUS MEDIUM	72W LED	120	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE IV DISTRIBUTI
(SE)	RFM-72W32LED4K-T-5 ROAD FOCUS MEDIUM	72W LED	120	REFER TO LIGHTING CUT SHEET	SITE PLAN	TYPE V DISTRIBUTI
	CALB2-50MH BOLLARD	50W MH	120	REFER TO LIGHTING CUT SHEET	SITE PLAN	
•						

		OR 21W		COUNTER	KITCHEN	LENGTH TO SUIT
A2 ALT	LED UNDER COUNTER STRIP ALICO ZEE LED 9" TO 48" LENGTHS	LED	120V	UNDER COUNTER	SUITE KITCHEN	FINISH WHITE
В	COMPACT FLUORESCENT GALAXY LTG OES112MB-PTGU24, ENERGY STAR LISTED	2-13W	120V	CEILING SURFACE	SUITE BEDROOM	FINISH PEWTER
С	COMPACT FLUORESCENT GALAXY LIGHTING	2-13W	120V	CEILING	SUITE BEDROOM	FINISH PEWTER
-	OES112MB-PTGU24, ENERGY STAR LISTED  COMPACT FLUORESCENT GALAXY LIGHTING	2-13W	120V	SURFACE	SUITE	FINISH PEWTER
D	OES112MB-PTGU24, ENERGY STAR LISTED				DINING	FINISH WHITE
D1	COMPACT FLUORESCENT PENDANT GALAXY LTG OES411, ENERGY STAR LISTED	1-13W	120V	CEILING	SUITE B'FAST	FINISH WHILE
Е	VANITY LIGHT COMPACT GALAXY LIGHTING OES134BNGU24, ENERGY STAR LISTED	4-13W	120V	WALL	SUITE COMM BATHROOM	BRUSHED NICKE
E1	VANITY LIGHT FLUORESCENT GALAXY LIGHTING ES921224BN, ENERGY STAR LISTED	2-17WT8	120V	WALL	SUITE COMM BATHROOM	WHITE/BRUSHED
E2	COMPACT FLUORESCENT GALAXY LIGHTING	1-13W	120V	CEILING	SUITE COMM	WHITE/CHROME
E2	RS2000GU24/202CH  COMPACT FLUORESCENT GALAXY LIGHTING	1-13W	120V	RECESSED CEILING	BATHROOM SUITE COMM	FINISH WHITE
E3	RS2000GU24/216WH			RECESSED	BATHROOM	FINISH WHITE
E3-IC	COMPACT FLUORESCENT GALAXY LIGHTING RS2000IC/ATGU24/216WH	1-9W	120V	CEILING RECESSED	SUITE COMM BATHROOM	
F	FLUORESCENT WRAPAROUND VISIONEERING MDIP248-232-IS-ELE C/W P.S. BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE
F1	FLUORESCENT CUBE LIGHT VISIONEERING MCAD148-132IS-ELE	1-32W	120/ 347V	CEILING SURFACE	COMMON AREAS	FINISH WHITE
F2	FLUORESCENT BEGHELLI ILLUMINA BS 100	2-32W	120/	CEILING	GARAGE	
	4'-T8 C/W PROG START HI-LITE BALLAST FLUORESCENT BEGHELLI ILLUMINA BS 100	2-54W HO	347V 120/	SURFACE	LOADING	
F3	4'-T5 C/W PROG START HI-LITE BALLAST		347V	SURFACE	DOCK	
F4	FLUORESCENT STRIP STANDARD DAYBRITE T232-120 WGT-4 C/W P.S. BALLAST	2-32W	120V	CEILING SURFACE	UTILITY ROOMS	C/W WIREGUARI
F5	FLUORESCENT BEGHELLI ILLUMINA BS 100 2'-T5 C/W PROG START HI-LITE BALLAST	2-14W	120V	AS NOTED ON PLANS	COMMON AREAS	
F6	T5 FLUORESCENT STRIP GALAXY LIGHTING	1-14W 21W	120V	AS NOTED	COMMON	
F-7	420028WH LENGTH TO SUITE  FLUORESCENT WRAPAROUND VISIONEERING	OR 28W 2-17W	120V	ON PLANS CEILING	AREAS COMMON	FINISH WHITE
F7	MDIP224217-IS-ELE	2-32W	1.00\/	SURFACE	AREAS	
F8	FLUORESCENT TG8 DAYBRITE 1TG8232FS01-120	2-32W	120V	T-BAR 1'x4'	COMMON AREAS	FINISH WHITE
F9	FLUORESCENT TG8 DAYBRITE 2TG8232-01-120	2-32W	120V	T-BAR 2'x4'	COMMON AREAS	FINISH WHITE
F10	FLUORESCENT TG8 DAYBRITE 2TG8332-01-120	3-32W	120V	T-BAR	COMMON	FINISH WHITE
	FLUORESCENT TG8 DAYBRITE	4-32W	120V	2'x4' T-BAR	AREAS COMMON	FINISH WHITE
F11	2TG8432-01-120		120V	2'x4'	AREAS	FINISH WHITE
F12	FLUORESCENT TG8 DAYBRITE 2TG8231U6-01-120	2-31W(U)		T-BAR 2'x2'	COMMON AREAS	
F13	FLUORESCENT TG8 DAYBRITE 1TG8232FS01-120-FMA-14	2-32W	120V	T-BAR 1'x4'	COMMON AREAS	FINISH WHITE
F14	FLUORESCENT TG8 DAYBRITE 2TG8232-01-120-FMA-24	2-32W	120V	T-BAR 2'x4'	COMMON AREAS	FINISH WHITE
F15	FLUORESCENT TG8 DAYBRITE	3-32W	120V	T-BAR	COMMON	FINISH WHITE
	2TG8332-01-120-FMA-24  FLUORESCENT TG8 DAYBRITE	4-32W	120V	2'x4' T-BAR	AREAS COMMON	FINISH WHITE
F16	2TG8432-01-120-FMA-24			2'x4'	AREAS	
F17	FLUORESCENT TG8 DAYBRITE 2TG8231U6-01-120-FMA-22	2-31W(U)	120V	T-BAR 2'x2'	COMMON AREAS	FINISH WHITE
G	RAB DESIGN GWL1-LED15 LED WALL LIGHT	1x15W LED	120V	WALL	ENTRANCE GND FLOOR	
G1	COMPACT FLUORESCENT GALAXY LIGHTING	1-13W	120V	WALL	BALCONY	
00	OES218GU24, ENERGY STAR LISTED  300156AS—S GALAXY LIGHTING	1-60W	120V	BRACKET WALL	GND FLOOR	FINISH WHITE
G2	BETA-CALCO ARKO EX 31 7082-0P-1	1-32W	120V	BRACKET	ENTRANCE	FINISH WHITE
G3	BETA-CALCO ARKO EX 31 7082-0P-1	LED	1200	BRACKET	GND FLOOR	LIMOU MULE
J	COMPACT FLUORESCENT LIGHTOLIER 1101T18N120/1105TCL	2-18W PL	120V	RECESSED	SUITES & COMM AREA	SUSPENDED CEILING
J1	COMPACT FLUORESCENT XCEED	1-26W PL	120V	RECESSED	SUITES & COMM AREA	SUSPENDED CEILING
J2	1050SQ26ESN/1050SQDLCDW ENERGY STAR LISTED  COMPACT FLUORESCENT SPEX OMEGA	2-26W 32W	120V	RECESSED	SUITES &	CEILING
K	S82H26/32/42UT82HCS FLUORESCENT GALAXY LIGHTING	OR 42W 1-32W OR	120V	CEILING	COMM AREA	FINISH WHITE
n e	931454WH-32W, ENERGY STAR LISTED	1-22W		SURFACE	AREAS	THUSH WITH
K1	HID SPEX OMEGA C82H26/42/42UT82HPLTCSPL	2-26W 32W OR 42W	120V	RECESSED	POOL AREAS	
K2	HID NITEBRITE DNM175M12-CUL-MARINE-QEM	1-175 MH	120V	RECESSED	POOL AREAS	FINISH WHITE
Р	FLUORESCENT LAMP HOLDER LEVITON	1-13W PL	120V	CEILING	STORAGE	FINISH WHITE
·	9860B  COMPACT FLUORESCENT GALAXY LTG	1-13W PL	120V	CEILING	SUITE	FINISH WHITE
P1	OES308GU24, ENERGY STAR LISTED				STORAGE	
P2			120V	CEILING	SUITE UNDER COUNTER CABINET	
Т	HID RAB DESIGN WP70MHTTABZ	1-70W MH	120/ 347V	WALL	EXTERIOR	POLYCARBONATE LENS
T1	HID RAB DESIGN	1-100W MH	120/	WALL	EXTERIOR	POLYCARBONATE
	WP100MHTTABZ  HID UP/DOWN CYLINDER	1-70W MH	347V 120/	WALL	EXTERIOR	LENS LENSED
T2	WCBM70P		347V			
T3	COMPACT FLUORESCENT SISTEMALUX EOS RECTANGULAR S4619	1-26W	120V	WALL	EXTERIOR	
T4	HID RAB DESIGN FPLLA70MHTT-CP-BZ	1-70MH	120/ 347V	WALL	EXTERIOR	_
T5	HID RAB DESIGN-WPD FULL CUT OFF-BZ	1-70W	120/	WALL	EXTERIOR	
	C/W 100W QUARTZ STRIKE  CANARM LTD., OUTDOOR LIGHT	MH OR HPS LED	347V 120V	WALL	EXTERIOR	
T6	#IOL92BK C/W LED LAMP HID BOLLARD SQUARE COOPER LTG				BALCONY	ROUND
U	BRC42100MHTT	1-100W MH	120/ 347V	GRADE		
U1	HID BOLLARD SQUARE COOPER LTG BSC42100MHTT	1-100W MH	120/ 347V	GRADE	SITE	SQUARE
V	LIGHTOLIER PHILIPS LYTECASTER 5" ROUND DOWNLIGHT	LED	120V	CEILING	CANOPY	
V1	HID CAPRI	1-50W MH	120/	RECESSED	CANOPY	
	CM6-M50-V65C HID CAPRI	1-100W MH	347V 120/	RECESSED	CANOPY	
V2	CM6-M100-V65C		347V			
V3	SAME AS V1 EXCEPT C/W 100W QUARTZ STRIKE	1-100W MH	120V	RECESSED	GARAGE	
V4	HID CAPRI CM6-M50-V65C	1-50W MH	120V	CEILING	PODIUM	
Y	COMPACT FLUORESCENT GALAXY LIGHTING	1-9W	120V	RECESSED	SUITE BATHROOM	SHOWER LIGHT
·	RS2000IC/AT GU24/216WH  HID, POLE MTD (15') NITEBRITE	1-150W HPS	120V	POLE PB2	SITE	FINISH TO SUIT
Z	SBX150STT/SSS4-15		∪ ٧	1 02	J., E	LANDSCAPE DESIG

AND 2' AS REQUIRED TO COVER FULL LENGTH OF COVE OR VALANCE. INSTALL FIXTURES STAGGERED. ALL FLUORESCENT FIXTURES SHALL BE C/W T-8 LAMPS OF WATTAGE AS SHOWN, ALL FLUORESCENT BALLASTS IN HEATED COMMON AREAS SHALL BE ADVANCE 'REL' SERIES (OR EQUAL) (MAGNETIC ENERGY SAVING IN SUITES).

. FIXTURES TO BE AS SPECIFIED OR APPROVED EQUAL BY ENGINEER AND/OR INTERIOR DESIGNER. 5. COMPACT FLUORESCENT FIXTURES TO BE C/W ENCAPSULATED HPF BALLASTS. NPF BALLASTS WITH IS NOT ACCEPTABLE.

6. ALL HID BALLASTS SHALL BE OF THE HPF TYPE. ALL HID FIXTURES SHOWN AS EMERGENCY FED TO BE COMPLETE WITH QUARTZ RESTRIKE, WHETHER IT IS INDICATED OR NOT.

ALL 'ID' FIXTURE SHOP DRAWINGS TO BE APPROVED BY THE INTERIOR DESIGNER. CONTRACTOR TO REVISE FIXTURE TO SUIT INSTALLATION ON SITE. ALL 'LS' FIXTURE SHOP DRAWINGS TO BE APPROVED BY THE LANDSCAPE DESIGNER. CONTRACTOR TO REVISE FIXTURE TO SUI INSTALLATION ON SITE.

9. ALL FIXTURES USED WITHIN INSULATED CEILING TO BE I.C. RATED. O. LIGHTING FIXTURE SUPPLIER TO PROVIDE AT TIME OF SHOP DRAWINGS, COMPUTER GENERATED LIGHTING LEVEL POINT BY POINT CALCULATIONS OF TYPICAL GARAGE AREA, TYPICAL CORRIDORS, SWIMMING POOL/SPA, AND EXTERIOR EMERGENCY MEANS OF EGRESS. AREAS ARE TO REFLECT ACTUAL CHARACTERISTICS (IE. CEILING HEIGHT, AND FIXTURE SPACING AS PER OUR DRAWINGS

READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, ANDSCAPE, AND INTERIOR DESIGN DRAWINGS). 1. LIGHTING FIXTURES THAT ARE CONTROLLED BY OCCUPANCY SENSOR TO BE C/W PROGRAM START BALLASTS.

12. EXIT SIGNS TO BE LED AND 5W OR LESS PER FACE.

LIGHTING FIX	TURE S	CHE	DULE		
DESCRIPTION	LAMPS	VOLT	MOUNTING	LOCATION	REMARKS
COMPACT FLUORESCENT GU24 EUROFASE TIN GU24 3-LT TRKKIT	3-13W	120V	CEILING SURFACE	SUITE KITCHEN	FINISH PLATINUM
FLUORESCENT ACRYLIC WRAP GALAXY LIGHTING OES4812WH, ENERGY STAR LISTED	2-32W	120V	CEILING SURFACE	SUITE KITCHEN	FINISH WHITE
T5 FLUORESCENT UNDERCABINET STRIP GALAXY LIGHTING 420028WH LENGTH TO SUIT	1-14W 28W OR 21W	120V	UNDER COUNTER	SUITE KITCHEN	FINISH WHITE LENGTH TO SUIT
LED UNDER COUNTER STRIP ALICO ZEE LED 9" TO 48" LENGTHS	LED	120V	UNDER COUNTER	SUITE KITCHEN	FINISH WHITE
COMPACT FLUORESCENT GALAXY LTG OES112MB-PTGU24, ENERGY STAR LISTED	2-13W	120V	CEILING SURFACE	SUITE BEDROOM	FINISH PEWTER
COMPACT FLUORESCENT GALAXY LIGHTING OES112MB-PTGU24, ENERGY STAR LISTED	2-13W	120V	CEILING SURFACE	SUITE BEDROOM	FINISH PEWTER
COMPACT FLUORESCENT GALAXY LIGHTING OES112MB-PTGU24, ENERGY STAR LISTED	2-13W	120V	CEILING	SUITE DINING	FINISH PEWTER
COMPACT FLUORESCENT PENDANT GALAXY LTG OES411, ENERGY STAR LISTED	1-13W	120V	CEILING	SUITE B'FAST	FINISH WHITE
VANITY LIGHT COMPACT GALAXY LIGHTING	4-13W	120V	WALL	SUITE COMM	BRUSHED NICKE
OES134BNGU24, ENERGY STAR LISTED  VANITY LIGHT FLUORESCENT GALAXY LIGHTING	2-17WT8	120V	WALL	SUITE COMM	WHITE/BRUSHED
ES921224BN, ENERGY STAR LISTED  COMPACT FLUORESCENT GALAXY LIGHTING	1-13W	120V	CEILING	BATHROOM SUITE COMM	NICKEL
RS2000GU24/202CH  COMPACT FLUORESCENT GALAXY LIGHTING	1-13W	120V	RECESSED CEILING	BATHROOM SUITE COMM	WHITE/CHROME FINISH WHITE
RS2000GU24/216WH  COMPACT FLUORESCENT GALAXY LIGHTING			RECESSED	BATHROOM  SUITE COMM	FINISH WHITE
RS2000IC/ATGU24/216WH	1-9W	120V	RECESSED	BATHROOM	
FLUORESCENT WRAPAROUND VISIONEERING MDIP248-232-IS-ELE C/W P.S. BALLAST	2-32W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE
FLUORESCENT CUBE LIGHT VISIONEERING MCAD148-132IS-ELE	1-32W	120/ 347V	CEILING SURFACE	COMMON AREAS	FINISH WHITE
FLUORESCENT BEGHELLI ILLUMINA BS 100 4'-T8 C/W PROG START HI-LITE BALLAST	2-32W	120/ 347V	CEILING SURFACE	GARAGE AREAS	
FLUORESCENT BEGHELLI ILLUMINA BS 100 4'-T5 C/W PROG START HI-LITE BALLAST	2-54W HO	120/ 347V	CEILING SURFACE	LOADING DOCK	
FLUORESCENT STRIP STANDARD DAYBRITE T232-120 WGT-4 C/W P.S. BALLAST	2-32W	120V	CEILING SURFACE	UTILITY ROOMS	C/W WIREGUARI
FLUORESCENT BEGHELLI ILLUMINA BS 100 2'-T5	2-14W	120V	AS NOTED ON PLANS	COMMON AREAS	
C/W PROG START HI-LITE BALLAST  T5 FLUORESCENT STRIP GALAXY LIGHTING	1-14W 21W	120V	AS NOTED	COMMON	
420028WH LENGTH TO SUITE FLUORESCENT WRAPAROUND VISIONEERING	OR 28W 2-17W	120V	ON PLANS CEILING	AREAS COMMON	FINISH WHITE
MDIP224217—IS—ELE  FLUORESCENT TG8 DAYBRITE	2-32W	120V	SURFACE T-BAR	AREAS COMMON	FINISH WHITE
1TG8232FS01-120  FLUORESCENT TG8 DAYBRITE	2-32W	120V	1'x4' T-BAR	AREAS	FINISH WHITE
2TG8232-01-120  FLUORESCENT TG8 DAYBRITE 2TG8332-01-120	3-32W	120V	2'x4'	AREAS COMMON	FINISH WHITE
FLUORESCENT TG8 DAYBRITE		120V	2'x4'	AREAS	FINISH WHITE
2TG8432-01-120	4-32W		2'x4'	AREAS	FINISH WHITE
FLUORESCENT TG8 DAYBRITE 2TG8231U6-01-120	2-31W(U)	120V	T-BAR 2'x2'	COMMON AREAS	
FLUORESCENT TG8 DAYBRITE 1TG8232FS01-120-FMA-14	2-32W	120V	T-BAR 1'x4'	COMMON AREAS	FINISH WHITE
FLUORESCENT TG8 DAYBRITE 2TG8232-01-120-FMA-24	2-32W	120V	T-BAR 2'x4'	COMMON AREAS	FINISH WHITE
FLUORESCENT TG8 DAYBRITE 2TG8332-01-120-FMA-24	3-32W	120V	T-BAR 2'x4'	COMMON AREAS	FINISH WHITE
FLUORESCENT TG8 DAYBRITE 2TG8432-01-120-FMA-24	4-32W	120V	T-BAR 2'x4'	COMMON AREAS	FINISH WHITE
FLUORESCENT TG8 DAYBRITE 2TG8231U6-01-120-FMA-22	2-31W(U)	120V	T-BAR 2'x2'	COMMON AREAS	FINISH WHITE
RAB DESIGN GWL1-LED15 LED WALL LIGHT	1x15W LED	120V	WALL	ENTRANCE GND FLOOR	
COMPACT FLUORESCENT GALAXY LIGHTING	1-13W	120V	WALL	BALCONY	
OES218GU24, ENERGY STAR LISTED  300156AS-S GALAXY LIGHTING	1-60W	120V	BRACKET WALL	GND FLOOR	FINISH WHITE
BETA-CALCO ARKO EX 31 7082-0P-1	1-32W	120V	BRACKET WALL	ENTRANCE	FINISH WHITE
COMPACT FLUORESCENT LIGHTOLIER	LED 2-18W PL	120V	BRACKET RECESSED	GND FLOOR SUITES &	SUSPENDED
1101T18N120/1105TCL  COMPACT FLUORESCENT XCFFD	1-26W PL	120V		COMM AREA	CEILING
1050SQ26ESN/1050SQDLCDW ENERGY STAR LISTED			RECESSED	COMM AREA	SUSPENDED CEILING
COMPACT FLUORESCENT SPEX OMEGA S82H26/32/42UT82HCS	2-26W 32W OR 42W	120V	RECESSED	SUITES & COMM AREA	
FLUORESCENT GALAXY LIGHTING 931454WH-32W, ENERGY STAR LISTED	1-32W OR 1-22W	120V	CEILING SURFACE	COMMON AREAS	FINISH WHITE
HID SPEX OMEGA C82H26/42/42UT82HPLTCSPL	2-26W 32W OR 42W	120V	RECESSED	POOL AREAS	
HID NITEBRITE DNM175M12-CUL-MARINE-QEM	1-175 MH	120V	RECESSED	POOL AREAS	FINISH WHITE
FLUORESCENT LAMP HOLDER LEVITON 9860B	1-13W PL	120V	CEILING	STORAGE	FINISH WHITE
COMPACT FLUORESCENT GALAXY LTG OES308GU24, ENERGY STAR LISTED	1-13W PL	120V	CEILING	SUITE STORAGE	FINISH WHITE
OLOGOGOZT, ENLIGOT STAN LISTED		120V	CEILING	SUITE UNDER	-
LIID DAD DECICNI	1 7/0W MH	120/		COUNTER CABINET	POLYCAPRONATE

9. INTERCONNECT SMOKE ALARMS IN ALL SUITES WHERE BEDROOMS ARE IN SEPARATE AREAS. CHECK DOOR SWINGS BEFORE INSTALLING 10. ALL FIRE HORNS OR SOUNDING DEVICES IN SUITES, TO BE EQUIPPED WITH SILENCING INSTALL APPROVED EXPANSION COUPLINGS SWITCH AS PER NEW O.B.C. REQUIREMENTS. WHEREVER CONDUITS CROSS EXPANSION

NOTES:

5. MOTOR STARTERS AND TIME SWITCHES NOT

. WIRE AND CABLE SIZES ARE BASED ON

AND VOLTAGE REQUIREMENTS PRIOR TO

6. FIRE ALARM STATIONS, LIGHT SWITCHES AND INTERCOM STATIONS IN A BARRIER FREE

ACCESS AREA (PUBLIC AREAS) SHALL BE

300MM AFF EXCEPT IN THE H/C UNITS

UNLESS OTHERWISE INDICATED ON THE

SHALL BE PROVIDED WITH APPROVED

. ALL OUTLETS INSTALLED ON PERIMETER WALLS

POLY-HAT SEALS OR SHALL BE OF THE TYPE

AND/OR PERFORATING THE VAPOR BARRIER

AS SUPPLIED BY R AND S VAPOR SEAL

8. PROTECT SMOKE DETECTORS IN PUBLIC AREAS

9. WHERE ELECTRICAL EQUIPMENT IS INSTALLED

PROTECTED BY NON-COMBUSTIBLE HOODS OR

IN SPRINKLERED AREAS, IT SHALL BE

SHIELDS SO ARRANGED AS TO MINIMIZE

INTERFERENCE WITH THE SPRINKLER

10. ALL PANEL BREAKERS SHALL BE 15A

SINGLE POLE UNLESS OTHERWISE NOTED.

1. FIXTURES SHOWN SHADED ARE FED FROM

12. THE INSTALLATION SHALL COMPLY WITH THE

13. ALL EMERGENCY FEEDERS SHALL BE FIRE

14. ADVICE THE OWNER THAT HE REQUIRES A

WRITTEN CONFIRMATION FROM THE DIESEL

FUEL SUPPLIER THAT THE FUEL WILL BE

ORDERING (IF APPLICABLE). FUEL TANK

15. ALL 125V, SINGLE PHASE RECEPTACLES

INSTALLED IN MACHINE ROOMS AND

THE HOLLOW SUITE PARTITIONS.

7. CONFIRM THE PROPOSED GROUNDING

RODS IN ACCORDANCE WITH CODE.

THE STRUCTURAL INTEGRITY.

DIRECTIONS.

ARRANGEMENTS WITH HYDRO INSPECTORS. IF

18. CONDUITS IN SHEAR WALLS SHALL NOT RUN

19. ALL SLEEVING WILL BE PROVIDED BY THE

HORIZONTALLY ON SAME PLANE AND PARALLEL TO EACH OTHER. SEPARATE THEM TO MAINTAIN

THE MAIN WATER PIPE IS NOT SUITABLE FOR

GROUNDING, PROVIDE ADEQUATE GROUNDING

MACHINERY SPACES SHALL HAVE CLASS A GROUND FAULT CIRCUIT INTERRUPTER TYPE

CAPACITY IS 250 GALLONS AND, AT FULL LOAD, THE GENERATOR WILL OPERATE FOR

RATED IN ACCORDANCE WITH CODE

OR FIRE RATED ENCLOSURE.

MINISTRY OF HOUSING TECHNICAL GUIDELINE FOR FAMILY HOUSING, LATEST REVISION.

REQUIREMENTS, USE PYROTENAX M.I. CABLES

DELIVERED WITHIN TWO HOURS FROM TIME OF

ADJACENT SOURCE OF SUPPLY.

ROUGHING-IN.

WITH WIRE GUARDS.

PROTECTION.

+/- 10 H.

EMERGENCY CIRCUITS.

SHOWN ON THE DRAWINGS SHALL BE LOCATED

COPPER RATINGS UNLESS OTHERWISE NOTED.

TYPICAL SUITES NOTES: INSTALL RECEPTACLES IN SUITES SO THAT EVERY POINT OF USABLE SPACE IS WITHIN 1800MM

FROM A RECEPTACLE WHEN MEASURED ALONG THE WALL AT FLOOR LEVEL. . SPACE OUTLETS ON PARTY WALLS 450MM APART TO MAINTAIN FIRE SEPARATION.

HEATERS WITH HYDRO INSPECTOR PRIOR TO

8. ALL RECEPTACLES SHALL BE PROTECTED BY

5. CONFIRM ALL MECHANICAL EQUIPMENT POWER . VERIFY LOCATION OF SUSPENDED CEILINGS FROM THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING-IN OF OUTLET BOXES. 4. VERIFY LOCATION OF BATHROOM SWITCHES AND

ACCESSIBLE TO A PERSON IN A WHEELCHAIR ROUGHING-IN. AND SHALL BE MOUNTED AT NOT MORE THAN 1200MM A.F.F. ALL RECEPTACLES, TV AND INSURE THAT SWITCH LOCATION DOES NOT TELEPHONE OUTLETS SHALL BE MOUNTED AT INTERFERE WITH CLOSING OF CLOSET DOORS. WHERE THEY SHALL MOUNTED AT 600MM AFF 6. PROVIDE A 60W-A LAMP FOR EACH RANGE H . MOUNT SUITE THERMOSTATS AT 1500MM A.F.F.

ARC-FAULT INTERRUPTERS.

). ALL RECEPTACLES LOCATED WITHIN 3M OF BASINS AND BATHTUBS IN WASHROOMS SHALL BE PROTECTED BY GFI BREAKERS OF THE CLASS A O. 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. 11. PROVIDE WHITE DECOR SWITCHES/RECEPTACLES . ALL LIGHT FIXTURES IN THE PARKING GARAGE

SHALL BE TYPE 'F2', 8'-0" COMPLETE WITH H LAMPS, -18 DEGREE BALLAST AND WIRE GUARI . MOUNT ALL EXIT SIGNS SO THAT THE BOTTOM ( THE FIXTURE IS 2000MM A.F.F. RIGIDLY SUSPEND THE FIXTURE ON 2-3/4" CONDUITS. . PROVIDE LOCKABLE COVERS FOR ALL STARTERS,

THERMOSTATS, CONTROLS, DISCONNECT SWITCHES

4. ALL LIGHTING FIXTURES IN STORAGE ROOMS SHALL BE TYPE 'F2' UNLESS NOTED OTHERWISE. 5. ALL EMT CONDUITS AND METAL BOXES SHALL SURFACE MOUNTED, ENT (FLEXIBLE PVC CONDUIT MAY BE USED IN THE SLABS OR EMBEDDED IN CONCRETE TO THE APPROVAL OF THE ELECTRICAL INSPECTION DEPARTMENT, PROVIDE SEPARATE GROUNDING WIRE IN PVC CONDUITS.

ETC. (SUPPLIED FROM ANY SOURCE).

6. COORDINATE LOCATION AND QUANTITY OF DRUM DRIPS HEATING CABLES WITH DIV. 15 AND TO SUIT SPRINKLER SYSTEM SHOP DRAWINGS PRIOR TO ROUGHING-IN.

16. ENT CONDUITS WILL BE ACCEPTABLE WITHIN SUPPLY AND INSTALL ALL PYROTENAX HEATING WITH MANUFACTURER INSTRUCTIONS (SHEET #

> . THE HEATING CABLES AND THERMOSTAT CAPILLARY SHALL BE SUPPLIED WITH NYLON

FORMING CONTRACTOR FROM YOUR 20. EXTERIOR POLE BASES WILL BE BY OTHERS. HEATING PANEL SET. PROVIDE CONDUITS TO SUIT.

BOILER ROOM NOTES: ALL LIGHTING LOCATED IN BOILER ROOM SHALL BE CHAIN SUSPENDED TO CLEAR ALL

21. PROVIDE FIRE STOPPING WHEN PENETRATING

FIRE RATED ASSEMBLIES TO SUIT CODES.

MECHANICAL INTERFERENCES, PIPES, DUCTWORK, ETC. !. ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT SHALL BE CHECKED AND CONFIRMED PRIOR TO ROUGHING IN. SUPPLY AND INSTALL EMERGENCY SHUT-DOWN SWITCHES FOR GAS FIRED BOILERS.

4. FIRE ALARM SYSTEM TO BE INTERCONNECTED

WITH CORRIDOR AIR UNIT TO SHUT DOWN UNITS ON FIRE SIGNAL. PRESSURIZATION FANS SHALL START AUTOMATICALLY ON FIRE SIGNAL. SMOKE DETECTORS (SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION) MOUNTED IN DUCT ENCLOSURES SHALL SHUT DOWN FAN UPON DETECTING SMOKE, PROVIDE REMOTE DETECTOR

PROVIDE DEDICATED 120V RECEPTACLE OUTLETS FOR MECHANICAL PLUG-IN EQUIPMENT AS REQUIRED. CONFIRM LOCATION

ALL EQUIPMENT LOCATED IN ELEVATOR MACHINE ROOM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S SHOP

THE CONTRACTOR IS TO CONFIRM: SIZES OF ELEVATOR FEEDERS, LOCATION OF EQUIPMENT IN ELEVATOR MACH ROOM, LOCATION OF DEVICES IN ELEVATOR PIT, AND SWITCHES WITH ELEVATOR MANUFACTURER PRIOR TO INSTALLATION.

5. FUSETRON FUSES SHALL BE SIZED IN ACCORDANCE WITH ELEVATOR MANUFACTURER'S SHOP DRAWINGS, 4. ELEVATOR CONTROLS SHALL BE SUCH THAT ONLY ONE ELEVATOR AT A TIME OPERATES UNDER EMERGENCY POWER CONDITIONS. 5. RUN 6 #12-25C FROM FIRE ALARM CONTROL PANEL TO ELEVATOR CONTROLLER FOR FIRE ALARM SERVICE OPERATION. PROVIDE FOR ALL REQUIRED INTERFACES TO ACTIVATE FLASHING LIGHTS WITHIN CAB(S) INDICATING ALARM

6. RUN 8 #18-25C FROM ELEVATOR MACHINE ROOM TO FIRE ALARM CONTROL FACILITIES. EXACT TERMINATION TO SUIT ELEVATOR

ORIGINATING IN ELEVATOR MACHINE ROOM OR

RELEVANT ELEVATOR SHAFT(S), INCLUDED AS

PART OF F/A SYSTEM

, PROVIDE AND INSTALL EMERGENCY TELEPHONE SYSTEM BETWEEN FACH FLEVATOR CAB AND FIRE ALARM CONTROL FACILITY, EMERGENCY TELEPHONE SHALL BE MANUFACTURED BY MIRCOM OR APPROVED EQUAL (MASTER PHONE TYPE EIS-100 IN CACF, CAB STATION TYPE EIS-110, IN EACH ELEVATOR CAB.)

PROVIDE AND INSTALL CONDUIT SYSTEM FOR EMERGENCY TELEPHONE BETWEEN EACH ELEVATOR CAB AND SECURITY AGENCY. 9. FLEVATOR SUPPLIER TO PROVIDE TELEPHONE CABINET INSIDE EACH ELEVATOR CAB AND

CABLE CONNECTION BETWEEN EACH ELEVATOR

D. PROVIDE AND INSTALL AN EMERGENCY BUZZER

IN THE SUPERINTENDENT BUILDING STATUS

CAB AND ELEVATOR MACHINE ROOM.

FIRE ALARM SYSTEM NOTES: THE COMPLETE INSTALLATION SHALL BE SUPPLIED, AND INSTALLED BY ONE

MANUFACTURER, VERIFICATION TO BE COMPLETED BY THIRD PARTY COMPANY. THE SYSTEM SHALL BE INSTALLED AND WIRED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND SHALL INCLUDE ALL REQUIREMENTS OF THE LOCAL FIRE MARSHALL'S OFFICE AND IN ACCORDANCE WITH U.L.C. STANDARDS.

3. ALL WIRING TO BE EMT CONDUIT. 4. THE SYSTEM SHALL BE EQUIPPED WITH ADDITIONAL CONTROLS THAT ARE CAPABLE OF STOPPING AIR HANDLING SYSTEM UPON ACTIVATION OF FIRE ALARM SYSTEM.

BATTERIES SHALL BE CAPABLE OF SUPERVISING THE ENTIRE SYSTEM FOR A PERIOD OF 24 HOURS AND OF RINGING ALL SIGNAL DEVICES FOR A PERIOD OF 30 MINUTES AT THE END OF THAT 24 HOUR PERIOD. EACH SOURCE OF POWER SHALL BE INDEPENDENTLY CAPARIE OF OPERATING THE ENTIRE FIRE ALARM SYSTEM UNDER ALARM CONDITIONS. BATTERIES SHALL BE RE-CHARGEABLE NI-CAD IN ACCORDANCE WITH

U.L.C.STANDARD SECTION 3.2.4.2. 6. THE FIRE ALARM SHALL BE DESIGNED TO NOTIFY THE MUNICIPAL FIRE CONTROL CENTRE OR SECURITY COMAPNY. PROVIDE ORIENTATION PLAN AT FIRE ALARM ANNUNCIATOR.

8. WIRING SHALL BE FIRE RATED IN ACCORDANCE

WITH ONTARIO BUILDING CODE.

RAMP HEATING NOTES: CABLES AS SHOWN AND IN STRICT ACCORDANCE . THE HEATING CABLES SHALL COVER THE COMPLETE SLOPED AREA OF THE RAMP.

4. SIZE HEATING CABLES TO INCLUDE THE HEATING OF THE TRENCH DRAIN AT THE BOTTOM OF THE

5. GROUND FAULT PROTECTION SHALL BE PROVIDED FOR ALL ELECTRIC HEATING CABLE SETS AND

PIPE TRACING NOTES:

PIPE LOCATION AND SIZES ARE SHOWN FOR PRICING PURPOSES ONLY. 2. EXAMINE PIPING INSTALLATION FOR EXACT LOCATION AND SIZES PRIOR TO ORDERING OF THE TRACING CABLE. . HEATING CABLES AND THERMOSTATS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS (PYROTENAX SHEET #H2009/1/11).

4. ALL PIPE TRACING CABLES SHALL BE PYROTENAX: A. PIPES UP TO 65MM - TYPE 'PY4' 120V,13W/M. B. PIPES 75MM TO 150MM - TYPE 'PY8' 120V 26W/M. C. PIPES 200MM TO 300MM - 2X TYPE 'PY8'.

5. PROVIDE A CONTROLLING THERMOSTAT TYPE 4688WP FOR ALL HEATING CABLES. 6. CUT HEATING CABLES TO LENGTH ON SITE. . ELECTRICALLY TRACE ALL DRUM DRIPS, SUMP PUMP RISERS, AND GARAGE FIRE HOSE CABINETS EXPOSED TO FREEZING TEMPERATURES.

APPROVAL OF FIXTURES PENDING SUBMISSION OF CALCULATIONS AS DETAILED BELOW. SUBMIT POINT BY POINT CALCULATIONS FOR THE FOLLOWING - TYPICAL CORRIDOR - TYPICAL GARAGE AREA LANDSCAPED OUTDOOR AREAS

. INTERIOR DESIGN FIXTURES TO BE APPROVED BY THE INTERIOR DESIGNER. 3. ALL FIXTURES INSTALLED IN I.C. RATED CEILINGS TO BE I.C RATED 4. PROVIDE QUARTZ RESTRIKE FOR ALL HID FIXTURES FED FROM THE EMERGENCY POWER.

**EMERGENCY INTERCOM NOTES:** . EXACT LOCATION OF HANDICAPPED SUITES AS PER ARCHITECTURAL PLANS. . MASTER INTERCOM STATION TO BE LOCATED IN SUPERINTENDENT'S SUITE OR IN RECEPTION AREA IF SUPERINTENDENT'S SUITE IS NOT AVAILABLE.

CONFIRMED ON SITE WITH OWNER. . THE SYSTEM SHALL BE MIRTONE #ECC-50, OR EQUAL, COMPLETE WITH ECC-201 AND ECC-240 AND ALL OTHER DEVICES AS NECESSARY FOR A COMPLETE EMERGENCY CALL AND COMMUNICATION

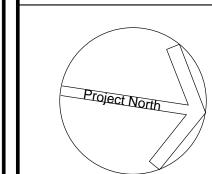
FINAL LOCATION OF MASTER STATION TO BE

. KITCHEN SPLIT RECEPTACLE OUTLETS SHALL BE INSTALLED ON THE FACE OF THE KITCHEN

. PROVIDE SEPARATE SWITCHES FOR RANGE HOOD

FAN AND LIGHT ACCESSIBLE TO A PERSON IN A WHEELCHAIR. 4. TV AND TELEPHONE OUTLETS SHALL BE MOUNTED 600MM AFF. INTERCOM OUTLET, LIGHT SWITCHES AND THERMOSTATS AS APPLICABLE SHALL BE MOUNTE 1100MM AFF.

6. PROVIDE A 60W LAMP IN EACH RANGE HOOD.



etc. on this drawing.

graphic representations only.

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DESCRIPTION

REVISIONS

Engineering Inc. The contractor must verify and

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conform to all applicable codes and requirements

This drawing is not to be scaled, all symbols are

Refer to the appropriate trade drawings before

proceeding with any work. Installation must

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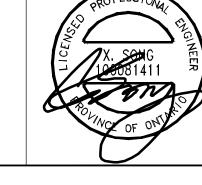
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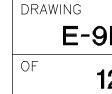


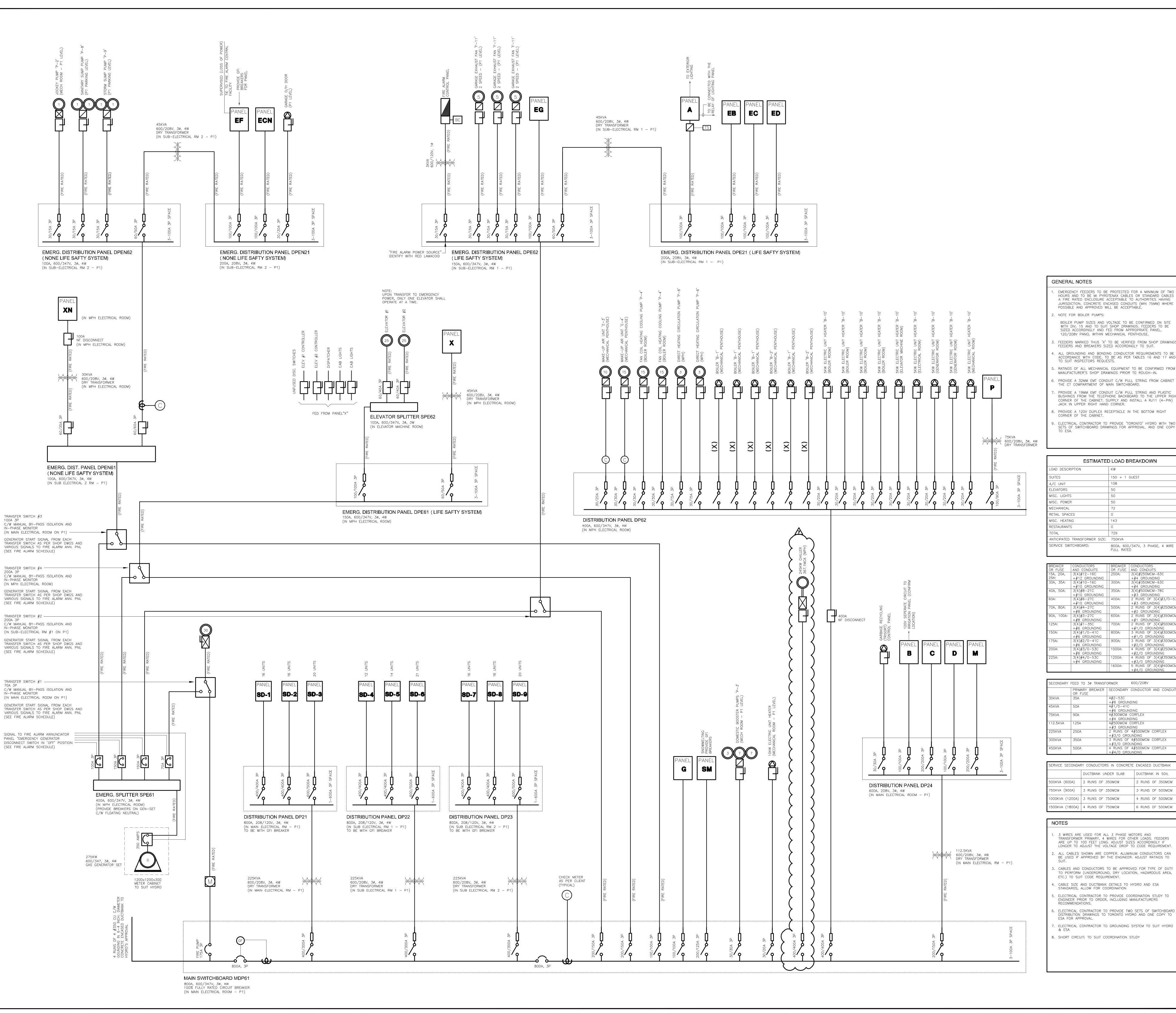
DETAILS - B **ELECTRICAL** 

PROPOSED RESIDENTIAL DEVELOPMENT 25 BAKER HILL BLVD.

> ROYAL PINE HOMES STOUFFVILLE, ONTARIO

SCALE N.T.S. DRAWING PROJECT SEPT. 2015





EMERGENCY FEEDERS TO BE PROTECTED FOR A MINIMUM OF TWO HOURS AND TO BE MI PYROTENAX CABLES OR STANDARD CABLES IN A FIRE RATED ENCLOSURE ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, CONCRETE ENCASED CONDUITS (MIN 75MM) WHERE POSSIBLE AND APPROVED WILL BE ACCEPTABLÈ.

BOILER PUMP SIZES AND VOLTAGE TO BE CONFIRMED ON SITE WITH DIV. 15 AND TO SUIT SHOP DRAWINGS. FEEDERS TO BE SIZED ACCORDINGLY AND FED FROM APPROPRIATE PANEL,

FEEDERS MARKED THUS 'X' TO BE VERIFIED FROM SHOP DRAWINGS. FEEDERS AND BREAKERS SIZED ACCORDINGLY TO SUIT. ALL GROUNDING AND BONDING CONDUCTOR REQUIREMENTS TO BE IN ACCORDANCE WITH CODE, TO BE AS PER TABLES 16 AND 17 AND TO SUIT INSPECTORS REQUESTS.

5. RATINGS OF ALL MECHANICAL EQUIPMENT TO BE CONFIRMED FROM MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGH—IN.

6. PROVIDE A 32MM EMT CONDUIT C/W PULL STRING FROM CABINET TO THE CT COMPARTMENT OF MAIN SWITCHBOARD. PROVIDE A 19MM EMT CONDUIT C/W PULL STRING AND PLASTIC BUSHINGS FROM THE TELEPHONE BACKBOARD TO THE UPPER RIGHT CORNER OF THE CABINET. SUPPLY AND INSTALL A RJ11 (4-PIN)
JACK IN UPPER RIGHT HAND CORNER. 8. PROVIDE A 120V DUPLEX RECEPTACLE IN THE BOTTOM RIGHT CORNER OF THE CABINET.

9. ELECTRICAL CONTRACTOR TO PROVIDE 'TORONTO' HYDRO WITH TWO SETS OF SWITCHBOARD DRAWINGS FOR APPROVAL. AND ONE COPY

ESTIMATED LOAD BREAKDOWN				
LOAD DESCRIPTION	KW			
SUITES	150 + 1 GUEST			
A/C UNIT	108			
ELEVATORS	50			
MISC. LIGHTS	50			
MISC. POWER	50			
MECHANICAL	72			
RETAIL SPACES	0			
MISC. HEATING	143			
RESTAURANTS	0			
TOTAL	729			
ANTICIPATED TRANSFORMER SIZE:	750KVA			
SERVICE SWITCHBOARD:	800A, 600/347V, 3 PHASE, 4 WIRE FULL RATED			

			I
BREAKER	CONDUCTORS	BREAKER	CONDUCTORS
OR FUSE	AND CONDUITS	OR FUSE	AND CONDUITS
15A, 20A,	3(4)#12-16C		3(4)#250MCM-63C
25A:	+#12 GROUNDING		+#4 GROUNDING
30A, 35A:	3(4)#10-16C	300A:	3(4)#350MCM-63C
	+#10 GROUNDING		+#4 GROUNDING
40A, 50A:	3(4)#8-21C	350A:	3(4)#500MCM-78C
	+#10 GROUNDING		+#3 GROUNDING
60A:	3(4)#6-27C	400A:	2 RUNS OF 3(4)#3/0-53C
	+#10 GROUNDING		+#3 GROUNDING
70A, 80A:	3(4)#4-27C	500A:	2 RUNS OF 3(4)#250MCM-63
	+#8 GROUNDING		+#2 GROUNDING
90A, 100A:	3(4)#3-27C	600A:	2 RUNS OF 3(4)#350MCM-63
	+#8 GROUNDING		+#1 GROUNDING
125A:	3(4)#1-35C	700A:	2 RUNS OF 3(4)#500MCM-78
	+#6 GROUNDING		+#1/0 GROUNDING
150A:	3(4)#1/0-41C	800A:	3 RUNS OF 3(4)#300MCM-63
	+#6 GROUNDING		+#1/0 GROUNDING
175A:	3(4)#2/0-41C	900A:	3 RUNS OF 3(4)#300MCM-63
	+#6 GROUNDING		+#2/0 GROUNDING
200A:	3(4)#3/0-53C	1000A:	4 RUNS OF 3(4)#250MCM-63
	+#6 GROUNDING		+#2/0 GROUNDING
225A:	3(4)#4/0-53C	1200A:	4 RUNS OF 3(4)#350MCM-63
	+#4 GROUNDING		+#3/0 GROUNDÍNG
	Ü Ü	1600A:	5 RUNS OF 3(4)#400MCM-78
			+#4/0 GROUNDING

SECONDARY	FEED TO 30 TRANSF	ORMER 600/208V
	PRIMARY BREAKER OR FUSE	SECONDARY CONDUCTOR AND CONDUIT
30KVA	35A	4#2-53C
		+#6 GROUNDING
45KVA	50A	4#1/0-41C
		+#6 GROUNDING
75KVA	90A	4#300MCM CORFLEX
		+#4 GROUNDING
112.5KVA	125A	4#500MCM CORFLEX
		+#3 GROUNDING
225KVA	250A	2 RUNS OF 4#500MCM CORFLEX
		+#3/0 GROUNDING
300KVA	350A	3 RUNS OF 4#500MCM CORFLEX
		+#3/0 GROUNDING
450KVA	500A	4 RUNS OF 4#500MCM CORFLEX
		+#4/0 GROUNDING

SERVICE SECONDAR	ENCASED DUCTBANK	600V	
	DUCTBANK UNDER SLAB	DUCTBANK IN SOIL	
500KVA (600A)	2 RUNS OF 350MCM	2 RUNS OF 350MCM	
750KVA (900A)	3 RUNS OF 350MCM	3 RUNS OF 500MCM	
1000KVA (1200A)	3 RUNS OF 750MCM	4 RUNS OF 500MCM	
1500KVA (1800A)	4 RUNS OF 750MCM	6 RUNS OF 500MCM	

. 3 WIRES ARE USED FOR ALL 3 PHASE MOTORS AND TRANSFORMER PRIMARY, 4 WIRES FOR OTHER LOADS. FEEDERS ARE UP TO 100 FEET LONG. ADJUST SIZES ACCORDINGLY IF LONGER TO ADJUST THE VOLTAGE DROP TO CODE REQUIREMENT. 2. ALL CABLES SHOWN ARE COPPER. ALUMINUM CONDUCTORS CAN BE USED IF APPROVED BY THE ENGINEER. ADJUST RATINGS TO

TO PERFORM (UNDERGROUND, DRY LOCATION, HAZARDOUS AREA, ETC.) TO SUIT CODE REQUIREMENT. 4. CABLE SIZE AND DUCTBANK DETAILS TO HYDRO AND ESA STANDARDS, ALLOW FOR COORDINATION 5. ELECTRICAL CONTRACTOR TO PROVIDE COORDINATION STUDY TO ENGINEER PRIOR TO ORDER, INCLUDING MANUFACTURERS 6. ELECTRICAL CONTRACTOR TO PROVIDE TWO SETS OF SWITCHBOARD DISTRIBUTION DRAWINGS TO TORONTO HYDRO AND ONE COPY TO ESA FOR APPROVAL. ELECTRICAL CONTRACTOR TO GROUNDING SYSTEM TO SUIT HYDRO

United Engineering Inc. Mechanical Electrical Consulting Engineers 3645 Keele Street, Suite 105, Toronto, Ontario, M3J 1M6

SINGLE LINE DIAGRAM

**ELECTRICAL** 

CM REVISED AS PER SI E-13

CM ISSUED FOR CONSTRUCTION

CM PROGRESS FOR CONSTRUCTION

REVISED AS PER ESA COMMENTS AND

DESCRIPTION

**REVISIONS** 

Engineering Inc. The contractor must verify and

accuracy of Architectural, structural, interior design,

conform to all applicable codes and requirements

This drawing is not to be scaled, all symbols are

This drawing, is an instrument of service, is provided by and is the property of United

accept responsibility for all dimensions and

conditions on site and must notify United

Engineering Inc. of any discrepancy before

United Engineering Inc. is not responsible for the

Refer to the appropriate trade drawings before proceeding with any work. Installation must

of the authorities having jurisdiction.

CM REVISED AS PER SI E-5

CM ISSUED FOR PERMIT

FOR CLARIFICATION

CM ISSUED FOR TENDER

etc. on this drawing.

graphic representations only.

2017-08-23

2017-08-09

2016-03-15

DATE

PROPOSED RESIDENTIAL DEVELOPMENT 25 BAKER HILL BLVD.

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

ROYAL PINE HOMES STOUFFVILLE, ONTARIO

N.T.S. DRAWING PROJECT 14-016 SEPT. 2015