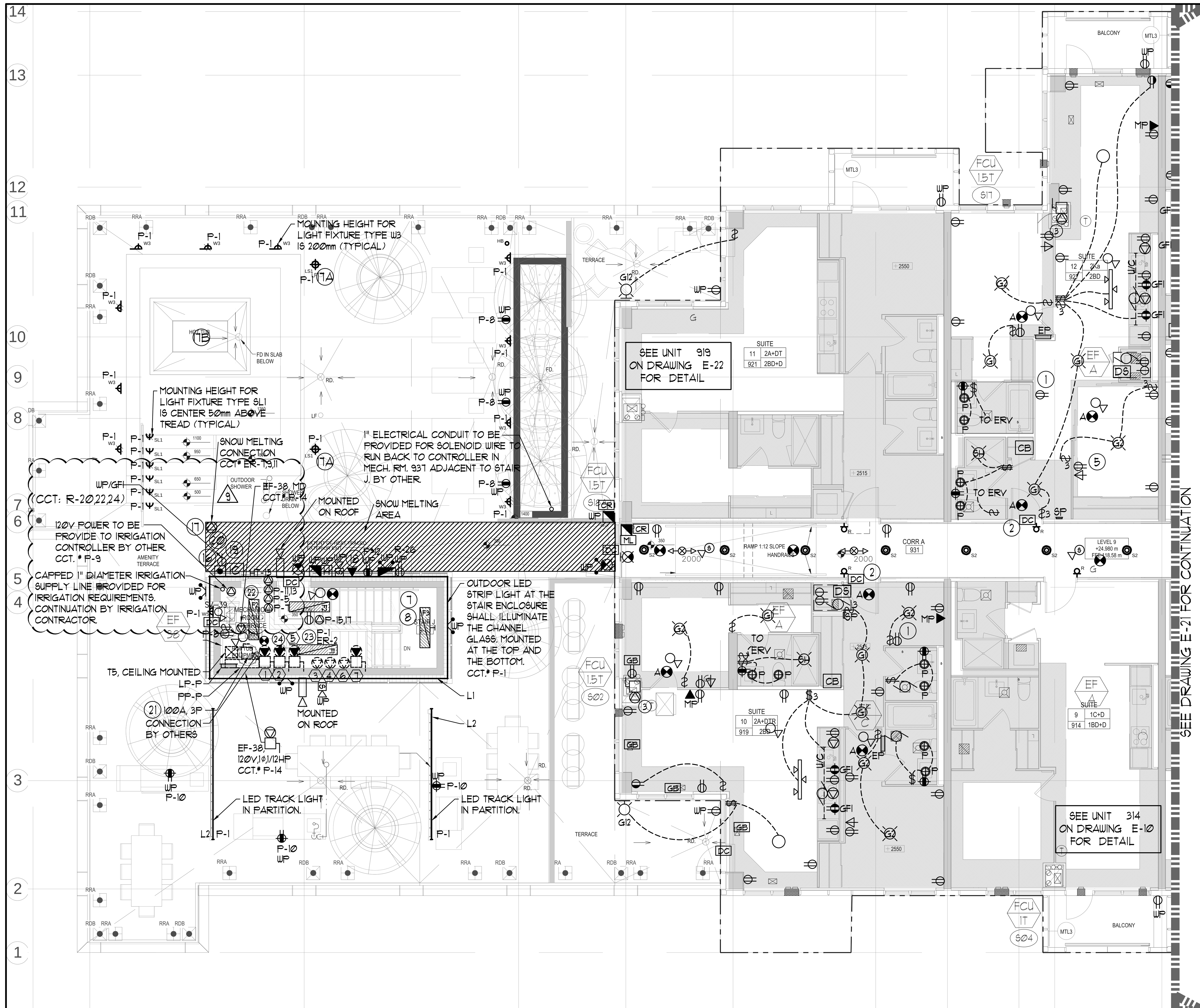


HOT TUB KEY NOTES:

(18) PROVIDE TELELEPHONE AS PER OBC 3.11.10.1 (8) AND SHALL BE INSTALLED WITHIN 30m OF THE POOL.

(19) ALL RECIRCULATING PUMPS SHALL BE CAPABLE OF BEING DEACTIVATED BY AN EMERGENCY STOP BUTTON. CLEARLY LABELED AND LOCATED ON THE DECK AREA.

(20) AN EMERGENCY SIGN CONTAINING THE WORDS "IN THE EVENT OF AN EMERGENCY, PUSH EMERGENCY STOP BUTTON AND USE EMERGENCY PHONE, AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE" SHALL BE IN LETTERS AT LEAST 25mm HIGH WITH A 5mm STROBE. POST THE SIGN ABOVE THE EMERGENCY STOP BUTTON.

(21) DIV. 16 TO PROVIDE 100A, 3P DISCONNECT IN POOL MECHANICAL ROOM FOR TURN-KEY POOL CONTRACTOR'S USE.

(22) EXACT LOCATIONS OF OUTLETS TO BE DETERMINED ON SITE.

(23) THIS LAYOUT AND CIRCUITING, ARE FOR INFORMATION ONLY. CONTRACTOR SHALL CONFIRM WITH SHOP DRAWINGS FOR FINAL EQUIPMENT LAYOUT AND QUANTITY.

(24) EMERGENCY LIGHT FIXTURES IN LOCKERS, STORAGE, GARBAGE, UTILITY AND SERVICE ROOMS SHALL BE CONNECTED TO BOTH NORMAL AND EMERGENCY POWER AS PER DETAIL #27 OF DWG. E-35.

HOT TUB EQUIPEMENTS:

(1) JET PUMP
575V, 3Ø, 3HP
CCT. FROM (PP-P)

(2) FILTER PUMP
575V, 3Ø, 3/4HP
CCT. FROM (PP-P)

(3) CHEMICAL CONTROLLER
120V, 1Ø, 15A
CCT. (P-2)

(4) WATER LEVEL CONTROL SYSTEM
120V, 1Ø, 15A
CCT. (P-4)

(5) HYDROTHERAPY BOOSTER PUMP
575V, 3Ø, 3HP
CONN. TO 'PP-P'

(6) TUB ACID FEED PUMP
120V, 1Ø,
CONN. TO 'P-3'

(7) ELECTRIC HEATER
575V, 3Ø, 15KW
CONN. TO 'PP-P'

GENERAL AREA CIRCUITING - TABLE #1

LIGHTING FIXTURE LOCATION	CCT. #
P2 TO P1 - EXIT SIGNS	E-1
G/F TO MPH - EXIT SINGS	E-3
MPH - EXIT SIGNS	ER-1
STAIR "A" (P2 TO G/F)	E-5
STAIR "B" (P2 TO G/F)	E-7
STAIR "J" (G/F TO 4/F)	E-9
STAIR "J" (5/F TO 9/F)	E-11
STAIR "G" (G/F TO 14/F)	E-13
STAIR "F" (G/F TO 14/F)	E-15
STAIR "K" (14F TO MPH) & MPH	ER-3,ER-5,R-17,R-19
(G/F)	E-2,E-4,E-6,E-16,E-8,E-10,E-12,E-14,E-16
(G/F)	B1-2,B1-4,B1-6,B1-8,B1-10,B1-12,B1-14,B1-16, B1-18,B1-20,B1-22,B1-24,B1-26,B1-28,B1-30,
CORRIDOR (2/F & 3/F)	E-24
CORRIDOR (4/F & 5/F)	E-26
CORRIDOR (6/F & 7/F)	E-28
CORRIDOR (8/F TO 11/F)	E-30
CORRIDOR (12/F TO 14/F)	E-32
CORRIDOR & LOCKER (2/F)	B-46
CORRIDOR (3/F)	B-48
CORRIDOR (4/F)	B-50
CORRIDOR (5/F & 6/F)	B-52
CORRIDOR (7/F & 8/F)	B-54
CORRIDOR (9/F TO 11/F)	B-56
CORRIDOR (12/F TO 14/F)	B-58
ELEVATOR CAB	ER-6, ER-8,ER-10
EXTERIOR SITE	E1-1,E1-3,E1-5,E1-2,E1-4,E1-6
RECEPTACLE LOCATION	CCT. #
ELEC. S. CLOSET (G/F TO 9/F)	B-2
ELEC. N. CLOSET (2/F TO 9/F)	B-4
ELEC. N. CLOSET (10/F TO 14/F)	B-6
ELEC. N. CLOSET (22/F TO 32/F)	B-8
ELEV. LOBBY (P2 TO 8/F)	B-10
CORRIDOR (2/F TO 8/F)	B-12,B-14,B-16,B-18,B-20,B-22,B-24
CORRIDOR (2/F TO 5/F)	B-26,B-28
ELEV. LOBBY (9 TO 14/F)	B-30
CORRIDOR (9/F TO 14/F)	B-32,B-34,B-36,B-38
STAIR A (G/F) & J(9/F,6/F,3/F)	B-40
STAIR F (14/F,11/F,8/F,5/F,2/F)	B-42
STAIR H (14/F,11/F,8/F,5/F,2/F)	B-44
STAIR "K" & MPH	R-2

KEY NOTES - INSUITE:

(1) DESIGNATED "LAUNDRY RECEPTACLE" AS DEFINED BY ESA CODE 26-710(eXii), 26-720(b) AND ESA BULLETIN 26-26-0 (WITHIN 3m RADIUS OF LAUNDRY CLOSET). RECEPTACLE SHALL BE CONNECTED TO A DEDICATED CIRCUIT. SEE DETAIL #14 ON DWG. E-35.

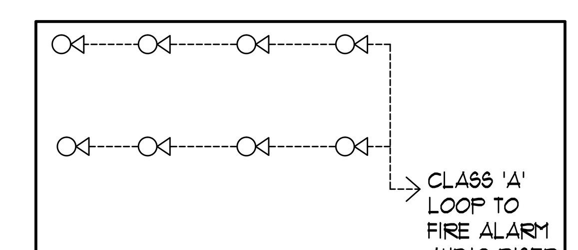
(2) SUITE DOOR CONTACTS AND GLASS BREAK DETECTOR WILL COMPLETE WITH INTRUSION ALARM SYSTEM THAT CONTACT TO THE CONCIERGE STATION. (TYPICAL)

(3) FOR FAN COIL UNITS (FCU) ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL CONDUIT AND JUNCTION BOX FOR REMOTE THERMOSTAT. MECHANICAL CONTRACTOR SHALL SUPPLY, WIRE, TERMINATE WIRING AND MOUNT THERMOSTAT.

(4) INSTALL SIDE-MOUNTED RECEPTACLE ON KITCHEN ISLAND CABINET.

(5) SWITCHES, RECEPTACLES, ETC., TO BE INSTALLED AS TO NOT INTERFERE WITH THE OPENING AND OPERATION OF SLIDING DOOR.

(6) TERRACE LIGHTING FIXTURE AND RECEPTACLE, SHALL BE CENTERED ON PANEL (350MM FROM CENTRE OF DOOR MULLION). REFER TO ARCHITECTURAL ELEVATION.



SUITE FIRE ALARM SYSTEM CONNECTION DIAGRAM

MOUNTING HEIGHT SCHEDULE (TO TOP OF BOX)

OUTLET	SUITES	PUBLIC AREA
RECEPTACLE	400 MM A.F.F.	400 MM A.F.F.
TV OUTLET	400 MM A.F.F.	400 MM A.F.F.
TELEPHONE OUTLET	400 MM A.F.F.	400 MM A.F.F.
MULTI-PORT OUTLET	400 MM A.F.F.	400 MM A.F.F.
SWITCH	1200 MM A.F.F.	1200 MM A.F.F.
SECURITY PANEL	1200 MM A.F.F.	
SILENCE SWITCHES	1200 MM A.F.F.	
THERMOSTAT	1200 MM A.F.F.	1200 MM A.F.F.
INTERCOM		1200 MM A.F.F.
V.C. HANDSET		1200 MM A.F.F.
PULL STATION		1200 MM A.F.F.

GENERAL NOTES - RESIDENTIAL:

1. ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH MECHANICAL, STRUCTURAL, ARCHITECTURAL AND LANDSCAPE DRAWINGS.
2. CONTRACTOR SHALL RUN CABLES WITHIN CEILING SLAB OR ENCLOSURES TO RETAIN 2 HOUR FIRE PROTECTION RATING FOR ALL LOADS THAT CONNECT TO EMERGENCY POWER.
3. FIRE ALARM RISERS SHALL BE RUN IN 2 HOUR FIRE RATED ELECTRICAL CLOSET. REFER TO DWG. E-32 FOR RISER DIAGRAM AND DETAILS.
4. STAIRWAY WALL MOUNTED EMERGENCY LIGHT FIXTURES SHALL BE MOUNTED @ 7' A.F.F. MIN.
5. FOR STORAGE ROOM VENTILATION SYSTEM, DIV. 16 TO PROVIDE CONDUIT, WIRING AND SWITCH (S) TO START/STOP FAN AND DAMPER. FAN AND 110V ACTUATOR TO BE SUPPLIED AND INSTALLED BY DIV. 15.
6. FOR UTILITY ROOM VENTILATION SYSTEM, DIV. 15 WILL PROVIDE LINE VOLTAGE THERMOSTAT (T) TO DIV. 16. DIV. 16 TO PROVIDE CONDUIT AND WIRING TO START/STOP FAN AND DAMPER VIA THERMOSTAT. FAN AND 110V ACTUATOR TO BE SUPPLIED AND INSTALLED BY DIV. 15.
7. FOR UNIT HEATER, DIV. 15 TO PROVIDE LINE VOLTAGE THERMOSTAT (T), DIV. 16. TO PROVIDE CONDUIT AND WIRING TO START/STOP UNIT HEATER.
8. REFER TO SPRINKLER DRAWINGS FOR FIRE PROTECTION DEVICE TO BE CONNECTED TO THE FIRE ALARM SYSTEM. THE DEVICE AND EQUIPMENT SHALL FORM AN INTEGRAL PART OF THE ELECTRICAL CONTRACT.
9. DIV. 16 SHALL SUPPLY AND INSTALL CONDUITS, WIRES AND INTERLOCK FANS TO MOTORIZED DAMPERS AND TO THE THERMOSTAT.
10. DIV. 16 SHALL SUPPLY AND INSTALL CONDUITS, WIRES AND INTERLOCK FANS TO MOTORIZED DAMPERS AND TO THE THERMOSTAT.
11. REFER TO SUITE PANEL SCHEDULES FOR INSUITE CIRCUIT ARRANGEMENT.
12. ALL DWELLING UNIT RECEPTACLES EXCEPT IN KITCHEN SHALL BE TAMPER PROOF.
13. PROVIDE GROUND FAULT PROTECTION FOR SUITE KITCHEN, AMENITY KITCHEN AND WASHROOM RECEPTACLES WITHIN 1500mm OF SINK.
14. [CB] PROVIDE TELECOMMUNICATION BOX C/W BUILT-IN RECEPTACLE FOR TELECOMMUNICATION. TELECOMMUNICATION BOX SHALL BE COMPLIANT WITH THE TELECOM SERVICE PROVIDER SPECIFICATION. REFER TO DETAIL #9 ON DWG. E-35 FOR TELECOM JUNCTION BOX INSTALLATION.
15. [DS] DRYER SENSOR TO START DRYER VENTILATION FAN AUTOMATICALLY WHEN DRYER IS RUNNING.
16. ALL SMOKE ALARMS WITHIN THE SUITE SHALL BE HARDWIRED TOGETHER AND TO A 15A, 1P CIRCUIT BREAKER AHEAD OF OTHER LOADS.
17. ALL OUTDOOR RECEPTACLES SHALL BE WEATHERPROOF (LEGRADE CAT# 3232TRWR-GRY FOR NON-GFCI AND CAT# 1595TRWR-GRY FOR GFCI) AND SHALL BE EQUIPPED WITH A WHILE IN USE CAST ALUMINUM COVERPLATE (LEGRANDE CAT# WIUCAST1) COVERFPLATE.

KEY NOTES - RESIDENTIAL - COMMON AREA:

(7) FOR CIRCUITING, REFER TO TABLE #1.

(8) PROVIDE ALARM SPEAKER, SMOKE DETECTOR AND RECEPTACLE AT EVERY THIRD FLOOR STAIR WELL,STARTING FROM TOP FLOOR, AS PER TO DWG. E-32 FOR FIRE ALARM RISER DIAGRAM.

(9) PROVIDE TELECOMMUNICATION BACKBOARD C/W 115V, 1Ø, 15A RECEPTACLE AS PER COMMUNICATION RISER DIAGRAM ON DWG. E-31.

(10) CONTRACTOR SHALL REFER TO ELECTRICAL SINGLE LINE DIAGRAM ON DWG. E-30 AND SDP RISER ON DWG. E-31 FOR SDP LOCATIONS AND DISTRIBUTION.

(11) PROVIDE CONDUIT AS PER RISER DETAIL #19 ON DWG. E-35 FOR TRISORTER CONTROL SYSTEM.

(13) REFER TO SUPERVISED VALVE AND FLOW SWITCH SCHEDULE ON DWG. E-33 FOR DETAILS ON TYPICAL FLOORS.

(14) EMERGENCY LIGHT FIXTURES IN LOCKERS, STORAGE, GARBAGE, UTILITY AND SERVICE ROOMS SHALL BE CONNECTED TO BOTH NORMAL AND EMERGENCY POWER AS PER DETAIL #27 OF DWG. E-35.

(15) ALLOCATE 2, 120V, 15A, CIRCUITS FROM PANEL 'LP-P' FOR MECHANICAL CONTROL, CONTRACTOR COORDINATE WITH DIV. 15 FOR EXACT LOCATION.

(16) SWING STAGE WINDOW WASHING TWIST LOCK WITH LOCKOUTS RECEPTACLE 30A, 3Ø, 208V, 5WIRE (L15-30R).

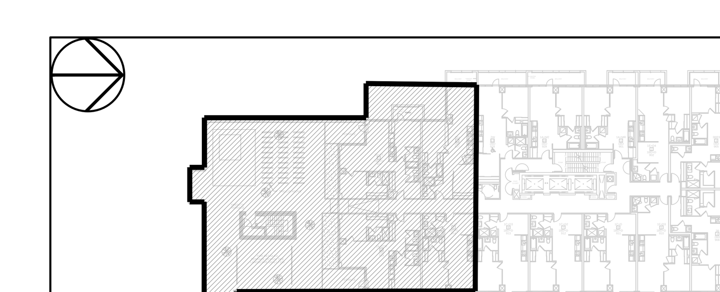
(17) HEAT LOSS REPLACEMENT

	CAT #	DESCRIPTION	QUANTITY
PYROTENAX	SUB9	HDPE JACKETED COPPER SHEATHED MI HEATING CABLE (FI)	1 EACH
PYROTENAX	D1297TERM4	JUNCTION BOX (3 ENTRY)	1 EACH
DIGITRACE	APS-4C	AUTOMATIC SNOW MELTING CONTROLLER 208/240V	1 EACH
ETI	CIT-1	OVERHEAD SNOW SENSOR	1 EACH
ETI	SIT-6E	PAVEMENT MOUNTED SENSOR - (OPTIONAL REPLACEMENT FOR OVERHEAD SENSOR, FOR BETTER SENSING)	0 EACH
	SMCS	SNOW MELT CAUTION SIGN	2 EACH

NOTES:
1. THE SYSTEM WILL BE PENTAIR, 208V, 3Ø, 9kW.
2. CONTRACTOR TO VERIFY MATERIAL LIST IS SUITABLE FOR THE ACTUAL SITE MEASUREMENTS AND CONDITIONS.

(17A) ELECTRICAL DIVISION TO COORDINATE WITH LANDSCAPE AND STRUCTURAL DISCIPLINES FOR CONSTRUCTION DETAILS OF POLE BASES.

(17B) REFER TO ARCHITECTURAL, LANDSCAPE AND INTERIOR DESIGNER DISCIPLINES FOR EXTERIOR LIGHTING LOCATIONS, MOUNTING HEIGHTS AND DIMENSIONS.



KEY PLAN N.T.S.

ELECTRICAL LEGEND

LIGHTING

	FLUORESCENT LIGHT FIXTURE, TYPE AS INDICATED
	NIGHT LIGHT OR LIGHT CONNECTED TO EMERGENCY POWER
	CEILING MOUNTED/WALL MOUNTED LIGHT FIXTURE, INSCRIBED LETTER DENOTES TYPE
	POLE MOUNTED LIGHT FIXTURE, INSCRIBED LETTER DENOTES TYPE
	CAPPED CEILING LIGHT OUTLET
	TRACK LIGHT
	STRIP LIGHT
	UNDER CABINET FLUORESCENT LIGHT FIXTURE
	CEILING MOUNTED/WALL MOUNTED EXIT SIGN
	SINGLE/DUAL EMERGENCY LAMP REMOTE HEAD
	EMERGENCY BATTERY PACK
PP	OCCUPANCY SENSOR POWER PACKS
$/$/$ $3, $4, $P, $D	SINGLE/TWO/THREE POLE, SINGLE/TWO/THREE THROW TOGGLE SWITCH RESPECTIVELY, ('3','4','P','D' DENOTES 3-WAY,4-WAY,PILOT LIGHT, DIMMER SWITCHED LIGHT RESPECTIVELY)
	MASTER LIGHTING SHUT-OFF SWITCH
	SENSOR WALL SWITCH PIR, SELF POWERED
	OCCUPANCY SENSOR, CEILING MOUNTED

POWER

	REGULAR DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPT
	5-20R T-SLOT DUPLEX RECEPTACLE
	SINGLE RECEPTACLE, TYPE AND CONFIGURATION AS SPECIFIED FOR DRYER
	CONNECTION FOR OVEN/COOKTOP
	ABOVE COUNTER DEVICE
	CEILING MOUNTED DEVICES
	FLOOR MOUNTED DEVICES
	DISCONNECT SWITCH, NON-FUSED
	DISCONNECT SWITCH, FUSED
	COMBINATION STARTER
	FRACTIONAL MOTOR/FAN DIRECT CONNECTION
	DIRECT CONNECTION, SINGLE PHASE
	DIRECT CONNECTION, THREE PHASE
T	THERMOSTAT
DS	DRYER SENSOR
	HEAT TRACE
	ELECTRICAL HEATER
EP / SP	ELECTRICAL PANEL / SECURITY PANEL

TELECOMMUNICATION

	TV/CABLE OUTLET
	TELEPHONE OUTLET
MP	TELEPHONE/TV CABLE (MULTI-PORT OUTLET)
	DATA OUTLET
	DATA/TELEPHONE OUTLET
CB	IN SUITE TELECOMM. BOX C/W RECEPTACLE
WIFI	WIFI LOCATION
VIC	VIDEO INTERCOM
RR	RADIO RECEIVER

SECURITY

IC / ENT	INTERCOM / ENTERPHONE
ICV	INTERCOM WITH CAMERA
PB / PAR	PANIC BUTTON / PANIC INTERCOM STATION
CR	CARD READER
ARCA / RR	AUTOMATIC RELEASE CARD ACCESS/RADIO RECEIVER
ES	ELECTRIC STRIKE
ML	MAGLOCK
DC / WC	DOOR CONTACT / WINDOW CONTACT
GB	GLASS BREAK DETECTOR
DO	AUTOMATIC DOOR OPERATOR
MD	MOTION DETECTOR
	PUSH BUTTON
	SECURITY CAMERA

LIFE SAFETY

	FIRE ALARM SMOKE DETECTOR
A	SMOKE ALARM
D	FIRE ALARM DUCT TYPE SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
H	FIXED TEMP. 88 °C DEGREE HEAT DETECTOR
M	MOISTURE PROOF HEAT DETECTOR
	CO ALARM
A	COMBINATION SMOKE & CO ALARM
CO / NO	CO SENSOR / NO SENSOR
	FIRE ALARM MANUAL PULL STATION
H	FIREFIGHTER'S HANDSET
S	FIRE ALARM SPEAKER/STROBE, WALL MTD.
	FIRE ALARM SPEAKER, WALL MTD.
S	FIRE ALARM SPEAKER/STROBE CEILING MTD.
	FIRE ALARM SPEAKER, CEILING MTD.
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL

DATE	NO.	DESCRIPTION	BY
07/28/15	9	ISSUED FOR S.I. #E-6	S.T.
06/11/15	8	ISSUED FOR S.I. #E-5/LIGHTING ADDENDUM #1	S.T.
05/5/15	7	ISSUED FOR S.I. #E-4	S.T.
03/27/15	6	ISSUED FOR SECURITY TENDER	S.T.
01/28/15	5	ISSUED FOR S.I. #E-1	S.T.
10/31/14	4	RE-ISSUED FOR TENDER	S.T.
09/23/14	3	ISSUED FOR TENDER	S.T.
07/10/14	2	RE-ISSUED FOR PERMIT	S.T.
05/30/14	1	ISSUED FOR PERMIT	S.T.

MARK VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

REVISIONS

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEERS BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEERS AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

DRAWINGS ARE NOT TO BE SCALED

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Email: cad@novatrendeng.com

DRAWING TITLE:
9/F SOUTH FLOOR PLAN
ELECTRICAL LAYOUT

PROJECT TITLE:
ALEXANDRA PARK
38 CAMERON STREET, BLOCK 11
TORONTO ONTARIO

DRAWN BY:	CHECKED BY:	SCALE:
S.O.	S.T.	1:50
DATE: FEB, 13	PROJECT NUMBER: 1313	DRAWING NUMBER: E-22 OF

Drawing name: \\cadserver\Current Dwg\13\1313 - Alexandra Park\DIV16\1313E- 22,23 (9F ELEC).dwg Plotted: Jul 28, 2015 - 11:41am