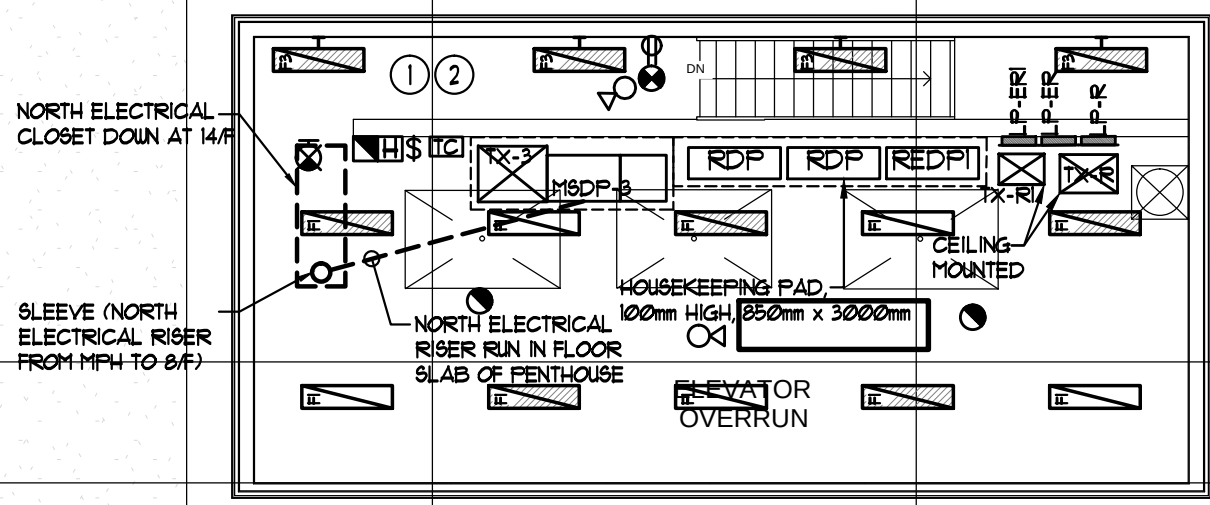




GENERAL AREA CIRCUITING - TABLE #1			
LIGHTING FIXTURE LOCATION	CCT.	RECEPTACLE LOCATION	CCT.
P4 to P1 - EXIT SIGNS	EX-XX	LOBBY (P4 to P1)	EX-XX
G/F to I/O - EXIT SIGNS	EX-XX	STAIR "A" (3/F,2/F,2)	EX-XX
I/O to ROOF - EXIT SIGNS	EX-XX	STAIR "B" (M4303212421) 1815 FLOORS	EX-XX
1815 (P4 to P1)	EX-XX	STAIR "B" (3/F,3/F,3/F) FLOORS	EX-XX
P1 to P4 (P4 to G/F)	EX-XX	STAIR "C" (M4303212421) 1815 FLOORS	EX-XX
CORRIDOR	EX-XX	STAIR "C" (1815,12,3,2,3) FLOORS	EX-XX
-	EX-XX	STAIR "D" (R1/F,4) FLOORS	EX-XX
-	EX-XX	STAIR "E" (P1) FLOORS	EX-XX
-	EX-XX	CORRIDOR	EX-XX

GENERAL NOTES - ROOF:

- 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 DUG. E-32 FOR RISER DIAGRAM AND DETAILS.
4. PROVIDE ALARM SPEAKER, SMOKE DETECTOR AND RECEPTACLE AT EVERY THIRD FLOOR STAIR WELL.
5. STAIRWAY WALL MOUNTED EMERGENCY LIGHT FIXTURES SHALL BE MOUNTED 6' AFF.
6. 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.
7. 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.
8. FOR UNIT HEATER, DIV. 15 TO PROVIDE LINE VOLTAGE THERMOSTAT (T), DIV. 16 TO PROVIDE CONDUIT AND WIRING TO START/STOP UNIT HEATER.
9. CONDUITS TO MEDIUM SIZED TRANSFORMERS (300KVA-450KVA), ARE NOT TO BE BURIED IN THE ROOF SLAB RIGHT UP TO THE UNIT. INSTEAD, THEY ARE TO BE ROUTED AROUND THE CEILING OF THE MECHANICAL PENTHOUSE AND BACK DOWN TO CONNECT TO THE TRANSFORMER.
10. ELECTRICAL FEEDS TO THE CHILLER SHOULD BE ROUTED ACROSS THE CEILING AND DOWN TO THE CHILLER PANEL, NOT UP THROUGH THE FLOATING FLOOR.
11. ELEVATOR CONTROLLER SUPPLIED AND INSTALLED BY OTHERS. THIS CONTRACTOR SHALL PROVIDE INTERCONNECTION BETWEEN FIRE ALARM CONTROL PANEL AND ELEVATOR CONTROLLER.
12. DIV. 16 TO PROVIDE 1" CONDUIT TO AUTOMATIC TFC TRANSFER SWITCH AND GENERATOR CONTROLLER. REFER TO SINGLE LINE DIAGRAM DUG. E-30 FOR CONDUIT RISER DETAILS.
13. ALLOCATE 2, 120V, 15A, CIRCUITS FROM PANEL LF-R1 FOR MECHANICAL CONTROLLER, CONTRACTOR COORDINATE WITH DIV. 15 FOR EXACT LOCATION. REFER TO PANEL SCHEDULE FOR CCR(R1), R1-1).
14. 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.

KEY NOTES - ROOF:

- 1) FOR CIRCUITING, REFER TO TABLE "I".
- 2) ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWINGS FOR BOILER:
 - 1) 515V, 3ø, 15A FEEDER FOR BOILER CIRCULATING PUMP.
 - 2) 115V, 1ø, 15A DEDICATED CIRCUIT FOR BOILER IGNITER.
 - 3) BOILER SHUTDOWN PUSH-BUTTON AT EXIT OF MECHANICAL ROOM.
- 3) DIV. 16 TO SUPPLY, DIV. 15 TO INSTALL HOSPITAL PLUS GRADE MUFFLER ON THE GENERATOR EXHAUST. MUFFLER AND EXHAUST PIPE SHOULD BE ISOLATED FROM THE BUILDING STRUCTURE USING SPRINGS OR HIGH TEMPERATURE FELT PADS.
- 4) PROVIDE CONDUIT AS PER SECURITY CONDUIT CONNECTION DIAGRAM ON DWG. E-31.
- 5) PROVIDE CONDUIT AS PER TELECOM RISER ON DWG. E-31.
- 6) ALL EXTERIOR LIGHTS SHALL BE CONTROLLED BY A TIMER/CONTROLLER LOCATED NEAR 'L.P.-R'. CONNECT LIGHTS TO CIRCUIT AS SHOWN.

ELECTRICAL LEGEND	
LIGHTING	
	FLUORESCENT LIGHT FIXTURE, TYPE AS INDICATED
	LIGHT BULB
	CIRCUIT BREAKER
	LIGHT CONNECTED TO EMERGENCY POWER
	CILING MOUNTED/PENDANT LIGHT FIXTURE, NON-LETTER CODED TYPE
	POLE MOUNTED LIGHT FIXTURE
	NON-LETTER CODED TYPE
	SCRABBLE LETTER CODED TYPE
	CIRCUIT BREAKER LIGHT OUTLET
	TRACK LIGHTING
	SWITCH LIGHT
	UNDER CABINET FLUORESCENT LIGHT FIXTURE
	CILING MOUNTED/PENDANT LIGHT FIXTURE
	SINGLE ENDED LIGHTING LAMP, REMOTE HEAD
	OCCUPANCY SENSOR POWER PACK
	1/8" THROUGH HOLE BUTT JOINT
	1/4" THROUGH HOLE BUTT JOINT
	3/4" THROUGH HOLE BUTT JOINT
	MASTER LIGHTING SWITCH-OFF SYMBOL
	SENSOR WALL SWITCH, SELF POWERED
	OCCUPANCY SENSOR, CEILING MOUNTED
POWER	
	REGULAR DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPT
	5-20T 1-SLOT DUPLEX RECEPTACLE
	SINGLE RECEPTACLE, TYPE AND CONFIGURATION
	SWITCH, NON-FUSED
	SWITCH, FUSED
	COMBINATION SWITCH
	FRACTIONAL, NOT/OR AN DIRECT CONNECTION
	DIRECT CONNECTION, SINGLE PHASE
	DIRECT CONNECTION, THREE PHASE
	THERMOSTAT
	DRYER SENSOR
	HEAT TRACE
	ELECTRICAL HEATER
	ELECTRICAL PANEL / SECURITY PANEL

TELECOMMUNICATION	
▽	TV/CABLE OUTLET
▽	TELEPHONE OUTLET
▽▽	TELEPHONE CABLE (MULTIPOINT OUTLET)
▽▽	DATA OUTLET
▽▽	DATA/TELEPHONE BOX WITH RECEPTACLE
▽▽	DATA/TELEPHONE BOX WITH RECEPTACLE
SP	SPK LOCATION
HS/LS	MUSIC SPEAKER / VOLUME CONTROL
RS	RADIO RECEIVER
SECURITY	
IC/IB	INTERCOM / INTERPHONE
IC	INTERCOM WITH CAMERA
PI/PIB	PANIC BUTTON / PANIC INTERCOM STATION
SR	CARD READER
ARCS/RS	ACCESS RELEASE CARD ACCESS/RADIO RELEASE
ES	ELECTRIC STRIKE
TL	MAGLOCK
DS/DS	DOOR CONTACT / ELECTRIC DOOR
DS	DOOR CONTACT / ELECTRIC DOOR
PS	PUSH BUTTON
PS	PUSH BUTTON
□	SECURITY CAMERA

LIFE SAFETY	
	FIRE ALARM SMOKE DETECTOR
	SMOKE ALARM
	FIRE ALARM DUCT TYPE SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
	FIXED TEMP. 68 °C DEGREE HEAT DETECTOR
	MOISTURE PROOF HEAT DETECTOR
	CO ALARM
	COMBINATION SMOKE & CO ALARM
	CO SENSOR / NO SENSOR
	FIRE ALARM MANUAL PULL STATION
	FIREFIGHTER'S HORN
	FIRE ALARM STROBE-HORN, WALL MTD.
	FIRE ALARM Mtn-HORN, WALL MTD.
	FIRE ALARM SPEAKER-STROBE CEILING MTD.
	FIRE ALARM SPEAKER, CEILING MTD.
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL

[illegible]

MM/DD/YY	I	ISSUED FOR ---	S.T.
DATE	NO.	DESCRIPTION	BY

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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DRAWING TITLE:
ROOF FLOOR PLAN
ELECTRICAL LAYOUT

PROJECT TITLE:
ALEXANDRA PARK

XXX
TORONTO ONTARIO

DRAWN BY: S.O.	CHECKED BY: S.T.	SCALE: 1:50
DATE: FEB, 13	PROJECT NUMBER: 1313	DRAWING NUMBER: E-29 OF

