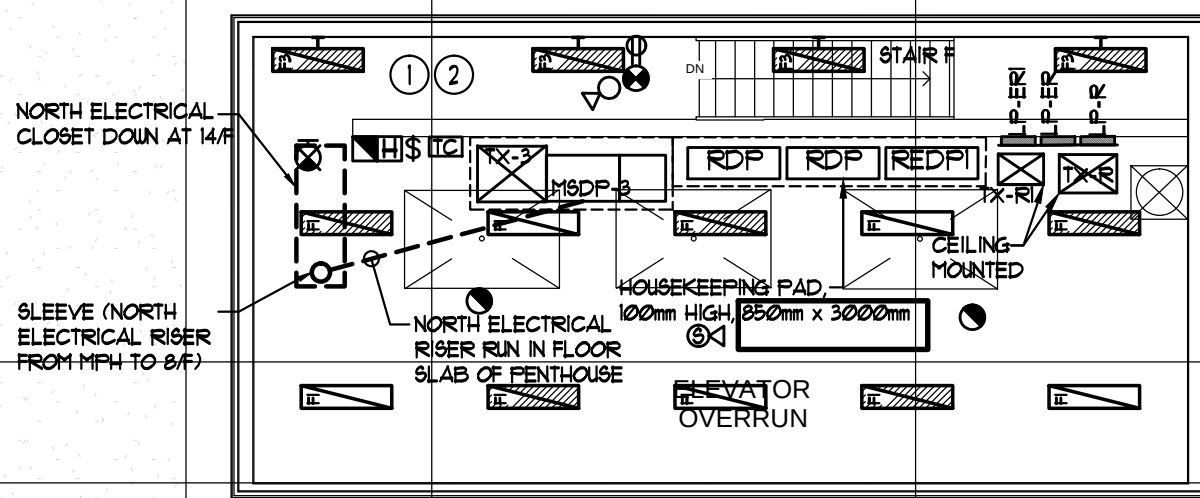


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GENERAL NOTES - ROOF:

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 CONTRIBUTE 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 @ 1' 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) TO 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 ACROSS 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 FLOORED 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 TCO 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 1P-R1 FOR MECHANICAL CONTRACTOR. CONTRACTOR COORDINATE WITH DIV. 15 FOR EXACT LOCATION. REFER TO PANEL SCHEDULE FOR C2T(R1), R1-).
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 #1.
- ② ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWINGS FOR BOILER:
 - 1) 575V, 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 DUG. E-31.
- ⑤ PROVIDE CONDUIT AS PER TELECOM RISER ON DUG. E-31.
- ⑥ ALL EXTERIOR LIGHTS SHALL BE CONTROLLED BY A TIMER/CONTROLLER LOCATED NEAR 'L.P.-RI', CONNECT LIGHTS TO CIRCUIT AS SHOWN.

ELECTRICAL LEGEND

LIGHTING

	FLUORESCENT LIGHT FIXTURE, TYPE AS INDICATED
	NIGHT LIGHT, TYPE AS INDICATED
	LIGHT CONNECTED TO EMERGENCY POWER
	CEILING MOUNTED POWER SUPPLY, TYPE AS INDICATED
	POWER MOUNTED LIGHT FIXTURE
	NON-RATED LED DEVICE TYPE
	QUARRIED CEILING LIGHT FIXTURE
	STRIP LIGHT
	UNDER CABINET FLUORESCENT LIGHT FIXTURE
	CEILING MOUNTED LIGHT FIXTURE
	SINGLE-ENDED, EMERGENCY LIGHT REMOTE HEAD
	QUARRIED BATTERY PACK
	OCCUPANT SENSOR POWER PACKS
	SINGLE/THROUGH/THREE POLE SWITCH
	THREE THROUGH/THREE POLE SWITCH
	SWITCH WITH 3-WAY PILOT OF LIGHT
	MASTER LIGHTING SWITCH-OFF SWITCH
	OCCUPANT WALL SWITCH PIR SELF POWERED
	OCCUPANT WALL SENSOR, CEILING MOUNTED

POWER

	REGULAR DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE-GROUND FAULT INTERRUPT
	3-WIRE 1-20 DUPLEX RECEPTACLE
	SINGLE RECEPTACLE TYPE AND CONFIGURATION
	DISCONNECT FOR OVEN/COOKTOP
	CONNECTION FOR OVEN/COOKTOP
	ABOVE COUNTER DEVICE
	FIXED MOUNTED DEVICES
	FLOOR MOUNTED DEVICES
	DISCONNECT SWITCH NON-RUGGED
	DISCONNECT SWITCH RUGGED
	COMBINATION STARTER
	FRACTIONAL MOTOR/RAN DIRECT CONNECTION
	DIRECT CONNECTION SINGLE PHASE
	DIRECT CONNECTION THREE PHASE
	THERMOSTAT
	DRYER SENSOR
	HEAT TRACE
	ELECTRICAL HEATER
	ELECTRICAL PANEL / SECURITY PANEL

TELECOMMUNICATION	
▽	TYVABLE OUTLET
▽	TELEPHONE
▽	TELEPHONE CABLE (MULTIPOINT OUTLET)
▽	DATA OUTLET
▽	DATA/TELEPHONE OUTLET
(B)	TELEPHONE BOX OR RECEPTACLE
(M)	WIFI LOCATION
(S) (V) (E)	MUSIC SPEAKER / VOLUME CONTROL
(R)	RADIO RECEIVER
SECURITY	
(C) (E) (B)	INTERCOM / INTERPHONE
(E)	INTERCOM WITH CAMERA
(P) (E)	PANIC BUTTON / PANIC INTERCOM STATION
(R)	CARD READER
(E)	EMERGENCY RELEASE CARD ACCESS/RADIO RECEIVER
(E)	ELECTRIC STRIKE
(E)	MAGLOCK
(S) (E) (V)	DOOR CONTACT / UNDOOR CONTACT
(E)	MONITORING DOOR OPERATOR
(E)	MOTION DETECTOR
(E)	PUSH BUTTON
□	SECURITY CAMERA

LIFE SAFETY	
	FIRE ALARM SMOKE DETECTOR
	SMOKE ALARM
	FIRE ALARM DUCT TYPE SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
	FIXED TEMP. 88 °C DEGREE HEAT DETECTOR
	MOISTURE PROOF HEAT DETECTOR
	CO ALARM
	COBINATION SMOKE + CO ALARM
	CO SENSOR / NO SENSOR
	FIRE ALARM MANUAL PULL STATION
	FIREFIGHTER'S HANDSET
	FIRE ALARM STROBE/HORN WALL MTD.
	FIRE ALARM MINI-HORN WALL MTD.
	FIRE ALARM SPEAKER/STROBE CEILING MTD.
	FIRE ALARM SPEAKER/CEILING MTD.
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL

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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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DRAWING TITLE:
ROOF FLOOR PLAN
ELECTRICAL LAYOUT

PROJECT TITLE:
ALEXANDRA PARK

XXX TORONTO		ONTARIO
DRAIN BY:	CHECKED BY:	SCALE:

S.O.	S.T.	1:50
DATE: FEB. 13	PROJECT NUMBER: 1313	DRAWING NUMBER: E-29 OF