MCW Consultants Ltd.

GENERAL POWER

- SINGLE RECEPTACLE
- 15A, U-GROUND DUPLEX RECEPTACLE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE
- 15A, U-GROUND SINGLE OR DUPLEX RECEPTACLE - MOUNTED ABOVE COUNTER
- 15A, U-GROUND SINGLE INSULATED/ISOLATED GROUND RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- 15A, U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- (5-20R) T-SLOT U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- 120/208V1 - 30 AMP DRYER OUTLET
- 120/208V1 - 60 AMP RANGE OUTLET
- SINGLE SPECIAL RECEPTACLE - AMPACITY AS INDICATED, TYPE 'A' AS SPECIFIED
- 15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- 15A, U-GROUND HALF SWITCHED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER (CONTROLLED BY SWITCH)
- 15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER
- 15A, U-GROUND SINGLE RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SINGLE RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE

KITCHEN APPLIANCES

- 15A, 120V-1Ø DUPLEX RECEPTACLE FOR DISHWASHER, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- 15A, 120V-1Ø DUPLEX RECEPTACLE FOR FRIDGE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- 15A, 120V-1Ø DUPLEX RECEPTACLE FOR UNDER-COUNTER FRIDGE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- 15A, 120V-1Ø DUPLEX RECEPTACLE, EFCP KITCHEN HOOD, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- 30A, 120/208V-1Ø N14-30R, RECEPTACLE FOR DRYER, LOCATED ON INTERIOR DESIGN DRAWINGS
- 15A, 120V-1Ø DUPLEX RECEPTACLE FOR WASHER, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- 15A, 120V-1Ø DUPLEX RECEPTACLE FOR WASHER, AND 30A, 120/208V-1Ø N14-30R, RECEPTACLE FOR DRYER, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- 50A, 120V/208V-1Ø L14-30R, RECEPTACLE FOR STOVE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- 20A, 120V-1Ø DUPLEX RECEPTACLE FOR MICROWAVE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- 20A, 120V/208V-1Ø DIRECT CONNECTION FOR BUILT-IN OVEN, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- 15A, 120V/208V-1Ø DUPLEX RECEPTACLE FOR EXHAUST FAN, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- 40A, 120V/208V-1Ø DIRECT CONNECTION FOR BUILT-IN COOKTOP, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS

LIGHTING

- LINEAR FLUORESCENT LUMINAIRE, TYPE 'A' AS SPECIFIED. HATCHING DENOTES CONNECTED TO EMERGENCY/NIGHT LIGHTING CIRCUIT
- CEILING MOUNTED LUMINAIRE, TYPE 'A' AS SPECIFIED
- WALL MOUNTED LUMINAIRE, TYPE 'A' AS SPECIFIED
- POLE MOUNTED LUMINAIRE, TYPE 'H1' AS SPECIFIED
- DOUBLE SURFACE MOUNTED EMERGENCY LIGHTING REMOTE HEADS. TYPE 'BU 1' INDICATES BATTERY BANK FED FROM
- CEILING MOUNTED EMERGENCY LIGHTING REMOTE HEAD
- EMERGENCY LIGHTING BATTERY UNIT C/W DUPLEX RECEPTACLE AND DOUBLE REMOTE HEADS. TYPE 'BU 1' AS SPECIFIED
- WALL MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN. 'BU 1' INDICATES BATTERY UNIT FED FROM
- WALL MOUNTED SINGLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.
- CEILING MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.
- CEILING MOUNTED SINGLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.
- CEILING MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN. TWO COUPLES TO BE PROVIDED WHERE BI-DIRECTIONAL IS SHOWN ON THE LAYOUT

OCCUPANCY SENSOR SCHEDULE

SYMBOL	MANUFACTURER MODEL No.	DESCRIPTION
1	WATT STOPPER DW-100	WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF AND DAYLIGHT SENSOR ON/OFF
2	WATT STOPPER PW-100	WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF OVER RIDE
3	WATT STOPPER PW-120	WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF OVER RIDE, 3-WAY
4	WATT STOPPER WSD011-H	ULTRA SONIC CEILING SENSOR WITH 90' LINEAR COVERAGE
5	WATT STOPPER LMDC-100	DIGITAL DUAL TECHNOLOGY CEILING SENSOR WITH 1000 SQ. FT. COVERAGE
6	WATT STOPPER LCT-355-2	CEILING MOUNTED ULTRASONIC SENSOR WITH 1000 SQ. FT. COVERAGE
7	WATT STOPPER CDT-355-1	CEILING MOUNTED DUAL TECHNOLOGY SENSOR WITH 1000 SQ. FT. COVERAGE
8	WATT STOPPER CB-100-1	PIR OCCUPANCY SENSOR FOR COLD TEMPERATURE WITH 90' DIRECTIONAL LINEAR COVERAGE. PROVIDE POWER PACK(S) AS REQUIRED
9	WATT STOPPER CX-100	CORNER MOUNTED PASSIVE INFRARED SENSOR C/W POWER PACK
10	LEVITON OCC05-MDW	CEILING MOUNTED INTEGRATED OCCUPANCY SENSOR, POWER BACK, AND PHOTOCELL IN SELF CONTAINED UNIT
11	WATT STOPPER TS-400	DIGITAL TIME SWITCH WITH PRE-SET ON/OFF OPERATION
12	WATT STOPPER HDLS455	LOW VOLTAGE MASTER SWITCH TO CONTROL CORRIDORS, OFFICES AND OPEN OFFICE AREAS

LIGHTING CONTROL

- ONE, TWO, THREE AND FOUR GANG SINGLE POLE TOGGLE SWITCHES
- 3-WAY SWITCH
- 4-WAY SWITCH
- KEY OPERATED LIGHT SWITCH
- TOGGLE SWITCH C/W RED PILOT LIGHT
- DOOR LIGHT SWITCH
- SWITCH MOUNTED OCCUPANCY SENSOR, TYPE 'A' AS SPECIFIED
- FAN CONTROL SWITCH
- VARIABLE SPEED FAN CONTROL SWITCH
- MANUAL TIMER SWITCH
- MASTER SWITCH
- DIMMER SWITCH, TYPE 'A' AS SPECIFIED
- PROGRAMMABLE TIME CLOCK, TYPE 'A' AS SPECIFIED
- CEILING MOUNTED OCCUPANCY SENSOR, TYPE 'A' AS SPECIFIED
- PHOTO ELECTRIC CONTROL
- LOW VOLTAGE RELAY
- LOW VOLTAGE RELAY PANEL, TYPE 'A' AS SPECIFIED
- LOW VOLTAGE CONTROL STATION, TYPE 'LVS1' AS SPECIFIED
- LOW VOLTAGE CONTROL SYSTEM MASTER STATION

EQUIPMENT CONNECTIONS AND CONTROLS

- DIRECT CONNECTION - 120 OR 208V AS SPECIFIED
- DIRECT CONNECTION - 347 OR 600V AS SPECIFIED
- DIRECT CONNECTION - 120 OR 208V C/W UNFUSED DISCONNECT SWITCH AS SPECIFIED
- DIRECT CONNECTION - 347 OR 600V C/W UNFUSED DISCONNECT SWITCH AS SPECIFIED
- DIRECT CONNECTION - 120 OR 208V C/W FUSED DISCONNECT SWITCH AS SPECIFIED
- DIRECT CONNECTION - 347 OR 600V C/W FUSED DISCONNECT SWITCH AS SPECIFIED
- MODULAR FURNITURE WHIP CONNECTION
  - 'D' - DENOTES DESKS
  - 'F' - DENOTES FLOOR
  - 'W' - DENOTES WALL
- MOTOR CONNECTION AS SPECIFIED
- MOTOR CONNECTION C/W UNFUSED DISCONNECT SWITCH
- MOTOR CONNECTION C/W FUSED DISCONNECT SWITCH
- MOTOR CONNECTION C/W LOOSE STARTER
- MOTOR STARTER AS SPECIFIED
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- HAIR DRYER
- HAND DRYER
- CONTACTOR - SIZE AND NUMBER OF POLES AS SPECIFIED
- RELAY
- THERMOSTAT PROVIDED AND WIRED BY ELECTRICAL
- THERMOSTAT PROVIDED BY MECHANICAL AND WIRED BY ELECTRICAL
- CARBON MONOXIDE DETECTOR SUPPLIED AND INSTALLED BY MECHANICAL ROUGH-IN BY ELECTRICAL
- MASTER CLOCK CONTROL PANEL
- CLOCK HANGER OUTLET C/W CLOCK
- CLOCK HANGER OUTLET ONLY
- POWER ACTUATED DOOR EXIT BUTTON SUPPLIED BY DOOR HARDWARE SUPPLIER, WIRED BY ELECTRICAL
- RECESSED MOUNTED - CARBON MONOXIDE CONTROL PANEL
- SURFACE MOUNTED - CARBON MONOXIDE CONTROL PANEL
- RECESSED MOUNTED ELECTRICAL PANEL - 'SP' DENOTES SUITE PANEL
- SURFACE MOUNTED ELECTRICAL PANEL - 'SP' DENOTES SUITE PANEL
- CARBON MONOXIDE DETECTOR TO BE SUPPLIED, INSTALLED AND WIRED BY DIV. 15. THIS CONTRACTOR SHALL RUN A 20AWG EC FROM DETECTOR TO CORRESPONDING CARBON MONOXIDE DETECTION CONTROL PANEL. VERIFY EXACT LOCATIONS OF DUCT SMOKE DETECTORS AND DUCT SERVICES AT APPROXIMATELY 2'-0"(61cm) A.F.F. ON WALL OR COLUMN.

POWER DISTRIBUTION

- POWER TRANSFORMER
- POWER TRANSFORMER C/W ELECTROSTATIC SHIELD
- CURRENT CONTROL TRANSFORMER
- INCOMING POWER INTERRUPTER SWITCH
- DISCONNECT SWITCH
- MOLDED CASE CIRCUIT BREAKER
- DRAW OUT AIR CIRCUIT BREAKER
- FIXED AIR CIRCUIT BREAKER
- FUSE
- INCOMING POWER INTERRUPTER SWITCH
- KWHR METER
- DIGITAL METERING SYSTEM
- BUS DUCT
- AUTOMATIC TRANSFER SWITCH - 'BP' DENOTES ISOLATION BYPASS SWITCH
- EMERGENCY GENERATOR
- EMERGENCY LIGHTING INVERTER
- UNINTERRUPTIBLE POWER SUPPLY

FIRE ALARM SYSTEM

- PULL STATION
- FLUSH MOUNTED BELL
- FLUSH MOUNTED HORN - 'HS' DENOTES HORN STROBE COMBINATION
- DOUBLE HORN - CEILING OR WALL MOUNTED
- SUITE ISOLATOR MODULE
- STROBE - WALL OR CEILING MOUNTED
- FLUSH MOUNTED SPEAKER - WALL OR CEILING MOUNTED
- SURFACE MOUNTED SPEAKER - WALL OR CEILING MOUNTED
- FLUSH MOUNTED SPEAKER WITH STROBE - WALL OR CEILING MOUNTED
- SURFACE MOUNTED SPEAKER WITH STROBE - WALL OR CEILING MOUNTED
- FIREMEN HANDSET
- FIRE ALARM SYSTEM SPEAKER SILENCE SWITCH
- AUTOMATIC COMBINATION FIXED TEMPERATURE/RATE OF RISE HEAT DETECTOR - WALL OR CEILING MOUNTED
- AUTOMATIC FIXED TEMPERATURE HEAT DETECTOR - WALL OR CEILING MOUNTED
- SMOKE DETECTOR - WALL OR CEILING MOUNTED
- DUCT TYPE SMOKE DETECTOR WITH REMOTE ANNUNCIATION
- SINGLE STATION TYPE SMOKE ALARM C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED
- SINGLE STATION TYPE SMOKE ALARM & STROBE C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED
- SINGLE STATION TYPE SMOKE ALARM/CARBON MONOXIDE DETECTOR C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED
- CARBON MONOXIDE DETECTOR - WALL OR CEILING MOUNTED
- SPRINKLER SYSTEM FLOW CIP PRESSURE SWITCH BY MECHANICAL AND WIRED BY ELECTRICAL. COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- SPRINKLER SYSTEM ON STANDPIPE SUPERVISED VALVE BY MECHANICAL AND WIRED BY ELECTRICAL. COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- SOLENOID VALVE BY MECHANICAL AND WIRED BY ELECTRICAL. COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- DOOR HOLDER
- MOTORIZED DAMPER BY MECHANICAL AND WIRED BY ELECTRICAL. COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- RECESSED MOUNTED - FIRE ALARM CONTROL PANEL
- SURFACE MOUNTED - FIRE ALARM CONTROL PANEL
- RECESSED MOUNTED - FIRE ALARM ANNUNCIATOR PANEL
- SURFACE MOUNTED - FIRE ALARM ANNUNCIATOR PANEL
- RECESSED MOUNTED - CENTRAL MONITORING AND EVACUATION FACILITIES
- SURFACE MOUNTED - CENTRAL MONITORING AND EVACUATION FACILITIES
- END OF LINE RESISTOR
- REMOTE TROUBLE SIGNAL
- ADDRESSABLE MODULE
- SUPERVISOR CONTACT

ELECTRICAL CAR CHARGING STATION

- PROVIDE SINGLE GANG BOX, 20mmEC CONDUIT AND 30A, 120V-1Ø (5-20R) RECEPTACLE FOR TYPE 1 ELECTRICAL CAR CHARGE STATION. LOCATED AS SHOWN ON FLOOR PLANS.
- PROVIDE TWO GANG BOX, 20mmEC CONDUIT AND 30A, 208V-1Ø (5-60R) RECEPTACLE FOR TYPE 2 ELECTRICAL CAR CHARGE STATION. LOCATED AS SHOWN ON FLOOR PLANS.
- PROVIDE SINGLE GANG BOX, 20mmEC CONDUIT AND BLANK COVER FOR TYPE 1 ELECTRICAL CAR CHARGE STATION ROUGH-IN. LOCATED AS SHOWN ON FLOOR PLANS.
- PROVIDE TWO GANG BOX, 20mmEC CONDUIT AND 30A, 120V-1Ø (5-20R) RECEPTACLE FOR TYPE 1 MODIFIED TO ACCOMMODATE TYPE 2 ELECTRICAL CAR CHARGE STATION IN FUTURE. LOCATED AS SHOWN ON FLOOR PLANS.

SECURITY AND ACCESS SYSTEMS

- SECURITY SYSTEM CONTROL PANEL
- KEY PAD
- CARD READER
- INFRA RED READER
- REQUEST TO EXIT BUTTON
- EGRESS MOTION DETECTOR
- DOOR CONTACT
- PATIO DOOR CONTACT
- WINDOW CONTACT
- OVERHEAD DOOR CONTACT
- POWER LOCK
- ELECTRIC STRIKE C/W DOOR CONTACT, AUDIBLE ALARM AND EGRESS MOTION DETECTOR
- AUDIBLE ALARM
- MOTION DETECTOR
- GLASS BREAK DETECTOR
- AUTOMATIC DOOR OPENER
- CLOSED CIRCUIT CAMERA
  - 'B' - DENOTES BOX ENCLOSURE
  - 'C' - DENOTES CEILING MOUNTED MOUNT
  - 'F' - DENOTES PEDESTAL MOUNT
  - 'PTZ' - DENOTES PAN TILT ZOOM
  - 'W' - WEDGE ENCLOSURE
- SECURITY SYSTEM MONITOR
- MAGLOCK DEVICE
- MAGLOCK RESET SWITCH
- KEY SWITCH
- CODE BLUE SPEAKER PHONE
- CODE BLUE INTEGRATED UNIT C/W ACCESSORIES, POLE OR PEDESTAL MOUNTED
- ALARM SOUNDER
- PANIC ALARM
- SECURITY ALARM CONTACT FOR MECHANICAL EQUIPMENT
- SECURITY DOOR RELEASE
- SURFACE CONTROL PANEL - 'CP' DENOTES COMMUNICATION PANEL

ELECTRIC HEATING

- ELECTRIC BASEBOARD HEATER, TYPE 'BBH1' AS SPECIFIED
- ARCHITECTURAL DRAFT BARRIER HEATER, TYPE 'DBH1' AS SPECIFIED
- ELECTRIC KICKSPACE HEATER, TYPE 'KSH1' AS SPECIFIED
- ELECTRIC DROP-IN HEATER, TYPE 'DIH1' AS SPECIFIED
- CABINET UNIT HEATER, TYPE 'CUH1' AS SPECIFIED
- RECESSED MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'FFH1' AS SPECIFIED
- SURFACE MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'FFH1' AS SPECIFIED
- ELECTRIC UNIT HEATER, TYPE 'UH1' AS SPECIFIED
- AREA OF SNOW MELTING CABLE - TYPE 'S1' AS SPECIFIED
- HEAT TRACING CABLE AROUND HORIZONTAL PIPE - TYPE 'DI2' AS SPECIFIED
- HEAT TRACING CABLE AROUND VERTICAL PIPE - TYPE 'DI1' AS SPECIFIED

MISCELLANEOUS

- INDICATES EXISTING DEVICE TO REMAIN
- INDICATES EXISTING DEVICE TO BE MOVED
- INDICATES EXISTING DEVICE IN RELOCATED POSITION
- INDICATES EXISTING DEVICE TO BE DEMOLISHED
- INDICATES CONDUIT
- (CW) ELECTRICAL DRAWING NOTES

STRUCTURAL REQUIREMENTS:

1. REFER TO STRUCTURAL DRAWING TYPICAL DETAILS.
2. AREA OF CONDUITS NOT TO EXCEED 1% OF COLUMN CROSS SECTIONAL AREA. CONDUITS IN CONCRETE COLUMNS MAY NOT HAVE ANY CONDUIT PERMITTED DUE TO THEIR CRITICAL NATURE.
3. CONDUITS TO BE PLACED WITHIN MIDDLE 1/3 OF SLAB OR WALL THICKNESS.
4. OUTSIDE DIAMETER OF CONDUITS NOT TO EXCEED 1/3 OF SLAB OR WALL THICKNESS.
5. MINIMUM CENTRE TO CENTRE SPACING OF ADJACENT CONDUITS = 6 X LARGER CONDUIT DIAMETER.
7. CONDUITS TO BE LOCATED A MINIMUM OF 600mm FROM FACES OF COLUMNS.
8. CONDUITS TO BE LOCATED A MINIMUM OF 600mm FROM THE ENDS OF STUDWALLS THAT MAY BE PLACED AROUND COLUMNS.
9. CROSS CONDUITS AT 45° TO WIRE WAYS.
10. REFER TO DETAIL DRAWING AND SPECIFICATION FOR CONDUIT CROSSING EXPANSION JOINT.

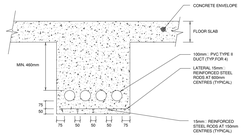
COMMUNICATIONS

- WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET
- WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET - MOUNTED ABOVE COUNTER
- TELEVISION OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- TELEVISION OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- TELEPHONE OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- TELEPHONE OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- PAY TELEPHONE OUTLET
- TELEPHONE OUTLET - FLUSH FLOOR MOUNTED
- TERMINAL POINT OF TELEPHONE ZONE CIRCUIT ON CEILING SLAB C/W 2" (53mm) CONDUIT BACK TO TELEPHONE BACKBOARD
- COMMUNICATION LINE TERMINAL BOX
- DATA OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- DATA OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- DATA OUTLET - FLUSH FLOOR MOUNTED
- COMBINATION VOICE/DATA OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- COMBINATION VOICE/DATA OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- COMBINATION VOICE/DATA OUTLET - FLUSH FLOOR MOUNTED
- COMMUNICATIONS CABINET, TYPE 'A' AS SPECIFIED
- COMMUNICATIONS DROP IDENTIFICATION NUMBER - A01 INDICATES DROP IDENTIFICATION
- SIGNAL PUSHBUTTON
- SIGNAL BELL C/W TRANSFORMER
- INTERCOM MASTER STATION
- INTERCOM STATION
- FLUSH-MOUNTED AUXILIARY SOUND SYSTEM SPEAKER - WALL MOUNTED OR CEILING MOUNTED
- SURFACE MOUNTED AUXILIARY SOUND SYSTEM SPEAKER - WALL MOUNTED OR CEILING MOUNTED
- MICROPHONE JACK
- PUBLIC ADDRESS SPEAKER, TYPE 'I' AS SPECIFIED
- VOLUME CONTROL SWITCH
- PROJECTION SOUND JACK
- SOUND BRIDGING JACK
- AMPLIFIER
- CONSOLE OR RACK C/W TERMINAL BOX
- SURFACE CONTROL PANEL - 'CP' DENOTES COMMUNICATION PANEL

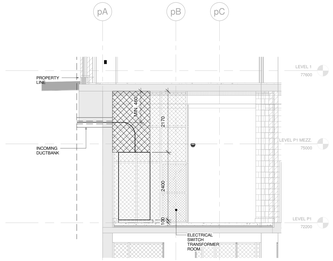
ABBREVIATIONS

A	-	AMPERES	CSTE	-	CUSTOMER SERVICE TERMINATION ENCLOSURE	FU	-	FUSE	MC	-	MICROWAVE
AC	-	MOUNTED ABOVE CEILING	CT	-	CURRENT TRANSFORMER	FX	-	FAX MACHINE	MP	-	MOISTURE PROOF
ACCO	-	AIR CIRCUIT CONTACT INTERRUPTER	CTP	-	COMPUTER TERMINAL PRINTER	FZ	-	FREEZER	MPH	-	MOTOR PHASE
AFF	-	ABOVE FINISHED FLOOR							MTG	-	MOUNTING
AFG	-	ABOVE FINISHED GRADE	D	-	DELETE	GFI	-	GROUND FAULT CIRCUIT INTERRUPTER	MV	-	EXISTING TO BE MOVED
			DB	-	CONDUIT BURIED	GM	-	GAS METER	MW	-	MOUNTED IN BELOW WORK
BFC	-	BELOW FINISHED CEILING	DB	-	DIRECT BURIED			GROUND WIRE			
BFG	-	BELOW FINISHED GRADE	DHWH	-	DOMESTIC HOT WATER HEATER				NC	-	NORMALLY CLOSED
BFL	-	BELOW FINISHED LEVEL	DHWT	-	DOMESTIC HOT WATER TANK (5HL - 15 PROVIDED BY DIVISION 15)	H	-	HORIZONTAL	NL	-	NIGHT LIGHT CONTACT
BRK	-	BREAKER				HP	-	HORSEPOWER	NLC	-	NIGHT LIGHT
BU	-	BATTERY UNIT	DN	-	DOWN				NO	-	NORMALLY OPEN
			DP	-	DISTRIBUTION PANEL	IG	-	ISOLATED GROUND	NTS	-	NOT TO SCALE
C	-	CONDUCTOR	DT	-	DUST TIGHT	INT	-	INTERLOCK			
CDP	-	CENTRAL DISTRIBUTION PANEL							P	-	PUMP (WHEN USED WITH MOTOR SYMBOL)
CEM	-	CONTROL EMF	E	-	EXISTING	kVA	-	KILO VOLT-AMPERES	PB	-	PULL BOX
CFM	-	COFFEE MACHINE	EC	-	EMPTY CONDUIT				PDU	-	POWER DISTRIBUTION UNIT
CH	-	CHILDPROOF	EF	-	EXHAUST FAN	kW	-	KILOWATTS	PH	-	PHASE PANEL
CHG	-	CHARGING POINTS	EH	-	ELECTRIC HEATER				PNL	-	POWER PANEL
CM	-	COMBINATION MAGNETIC				LCB	-	LOCK-ON TYPE BREAKER	PR	-	PRINTER
CM FVNR	-	COMBINATION MAGNETIC, FULL VOLTAGE NON-REVERSIBLE	F	-	FLUSH FLOOR MOUNTED	LE	-	LIGHTING PANEL			
			FA	-	FIRE ALARM	LTG	-	LIGHTING	XP	-	EXPLOSION PROOF
CM RVNR	-	COMBINATION MAGNETIC, REDUCED VOLTAGE NON-REVERSIBLE	FC	-	FAN COIL (WHEN USED WITH MOTOR SYMBOL)	LP	-	LOW POINT OF RUN			
			FD	-	FOOT DIMMER	LVR	-	LOW VOLTAGE RELAY	QP	-	QUAD PLEX
CNDT	-	CONDUIT	FD	-	FOOT CANDLE						
CP	-	COPY MACHINE	FM	-	FLOOR MOUNTED	MC	-	METERING CENTRE	R	-	RELOCATED
CS	-	MOUNTED IN CRAWLSPACE	FR	-	FRIDGE	MCC	-	MOTOR CONTROL CENTRE	RP	-	REMOTE PHONE PANEL
			FS	-	DEVICE MOUNTED IN RAISED FLOOR SPACE	MCD	-	MULTI CONDUCTOR	RI	-	ROUGH-IN
						MD	-	MAIN DISTRIBUTION			
									SC	-	SEPARATE CIRCUIT
									SS	-	SELECTOR SWITCH
									SWBRD	-	SWITCHBOARD
									TEL	-	TELEPHONE
									TYP	-	TYPICAL
									UC	-	UNDER COUNTER
									V	-	VOLT
									VM	-	VENDING MACHINE
									W	-	WALL MOUNTED
									WC	-	WATER COOLER
									WG	-	WIRE GUARD
									WP	-	WEATHER PROOF
									WL	-	WET LOCATION
									WP	-	WATER PROOF
									WT	-	WATER TIGHT

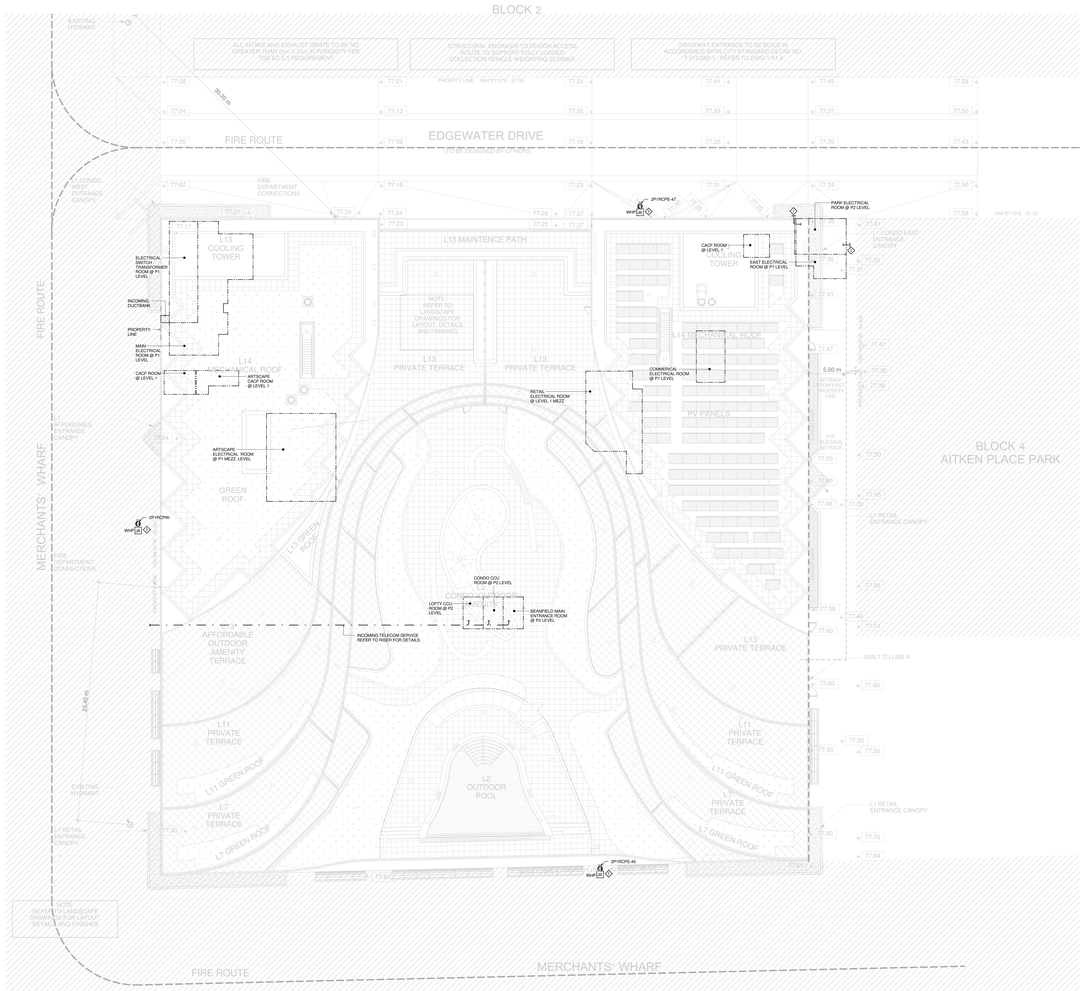
DWG NO.	DRAWING NAME	SCALE	ISSUED FOR TENDER 2015-10-15	ISSUED FOR CONSTRUCTION 2016-04-21
E0-01	ELECTRICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES	N.T.S.	•	•
E0-02	SITE PLAN - ELECTRICAL	1:150	•	•
E1-01	LEVEL P4 & LEVEL P3 PARKING PLAN - ELECTRICAL	1:100	•	•
E1-02	LEVEL P2 & LEVEL P1 - PARKING PLAN - ELECTRICAL	1:100	•	•
E1-03	LEVEL P1 MEZZANINE PARKING PLAN / AMENITY - LEVEL P1- ELECTRICAL	AS NOTED	•	•
E2-01A	LEVEL 1 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-01B	LEVEL 1 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-02A	LEVEL 1 MEZZANINE FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-02B	LEVEL 1 MEZZANINE FLOOR PLAN SOUTH- ELECTRICAL	1:50	•	•
E2-03A	LEVEL 2 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-03B	LEVEL 2 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-04A	LEVEL 3 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-04B	LEVEL 3 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-05A	LEVEL 4 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-05B	LEVEL 4 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-06A	LEVEL 5 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-06B	LEVEL 5 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-07A	LEVEL 6 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-07B	LEVEL 6 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-08A	LEVEL 7 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-08B	LEVEL 7 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-09A	LEVEL 8 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-09B	LEVEL 8 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-10A	LEVEL 9 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-10B	LEVEL 9 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-11A	LEVEL 10 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-11B	LEVEL 10 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-12A	LEVEL 11 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-12B	LEVEL 11 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-13A	LEVEL 12 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-13B	LEVEL 12 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-14A	LEVEL 13 FLOOR PLAN NORTH - ELECTRICAL	1:50	•	•
E2-14B	LEVEL 13 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•	•
E2-15	LEVEL 14 FLOOR PLAN - ELECTRICAL	1:75	•	•
E3-01-RC	CONDO - SINGLE LINE DIAGRAM	N.T.S.	•	•
E3-02-RA	ARTSCAPE - SINGLE LINE DIAGRAM	N.T.S.	•	•
E3-03-CPCR	COMMERCIAL PARKING / COMMERCIAL RETAIL - SINGLE LINE DIAGRAM	N.T.S.	•	•
E4-01	COMMON AREA LIGHTING & POWER RISER DIAGRAM	N.T.S.	•	•
E4-02	TYPICAL SUITE DISTRIBUTION PANEL & TYPICAL SUITE PANEL SCHEDULES	N.T.S.	•	•
E4-03	FIRE ALARM RISER DIAGRAM	N.T.S.	•	•
E4-04	FIRE



3 DUCTBANK SECTION
N.T.S



2 ELECTRICAL SWITCH TRANSFORMER ROOM SECTION
1 : 50



1 ELECTRICAL SITE PLAN
1 : 150

NOTES:

1. 4-27mmC CONDUITS STUB-OUT FOR PRIVATE STREET LIGHTING FROM EAST ELECTRICAL ROOM.
2. 6-27mmC CONDUITS STUB-OUT FOR FUTURE PARK EQUIPMENT FROM PARK ELECTRICAL ROOM.
3. WEATHER PROOF JUNCTION BOX FOR IRRIGATION CONTROL SYSTEM. PROVIDE 1-27mmC CONDUIT FROM JUNCTION BOX TO PARK ELECTRICAL ROOM. REFER TO LOCATION AND JUNCTION BOX SIZE TO BE COORDINATED WITH IRRIGATION SHOP DRAWING.

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No.	Revision	Date
1	ISSUED FOR ADD E-003	2016/01/26

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	ISSUED FOR BUILDING PERMIT	2015-05-29

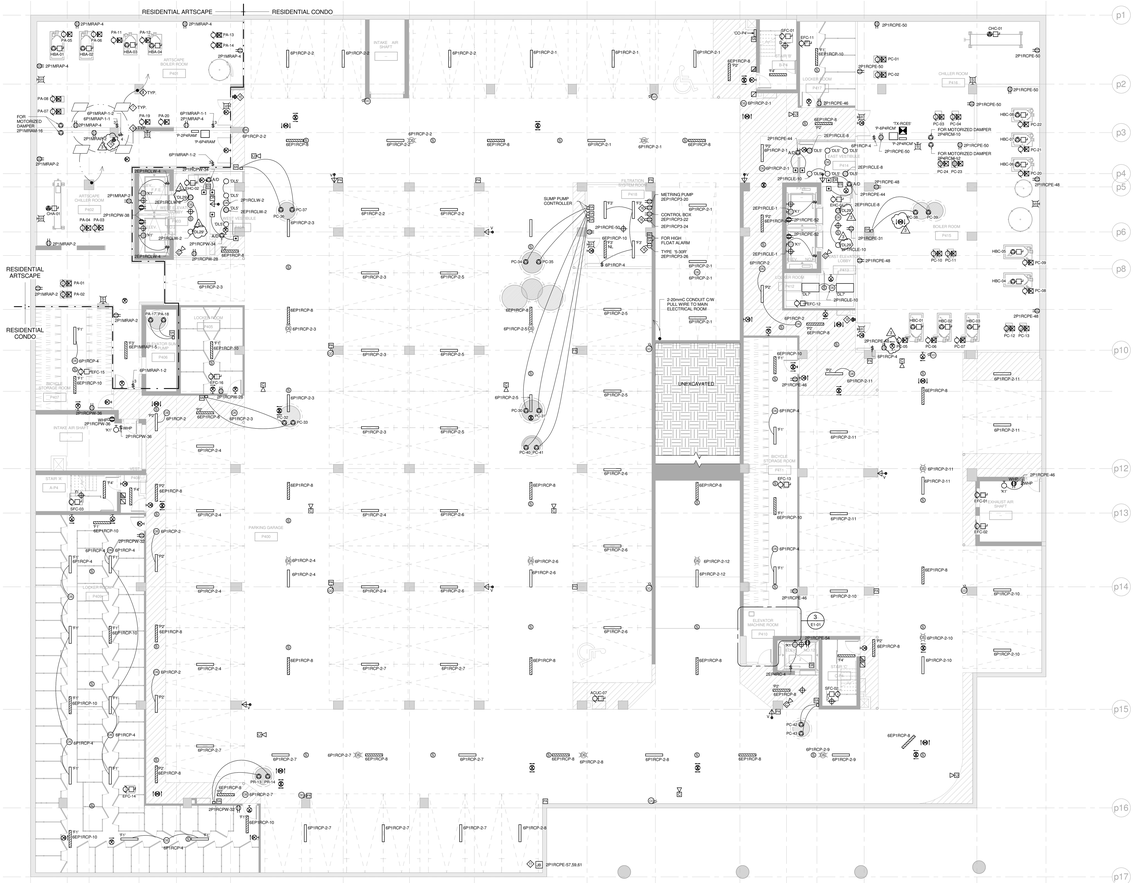
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
SITE PLAN - ELECTRICAL

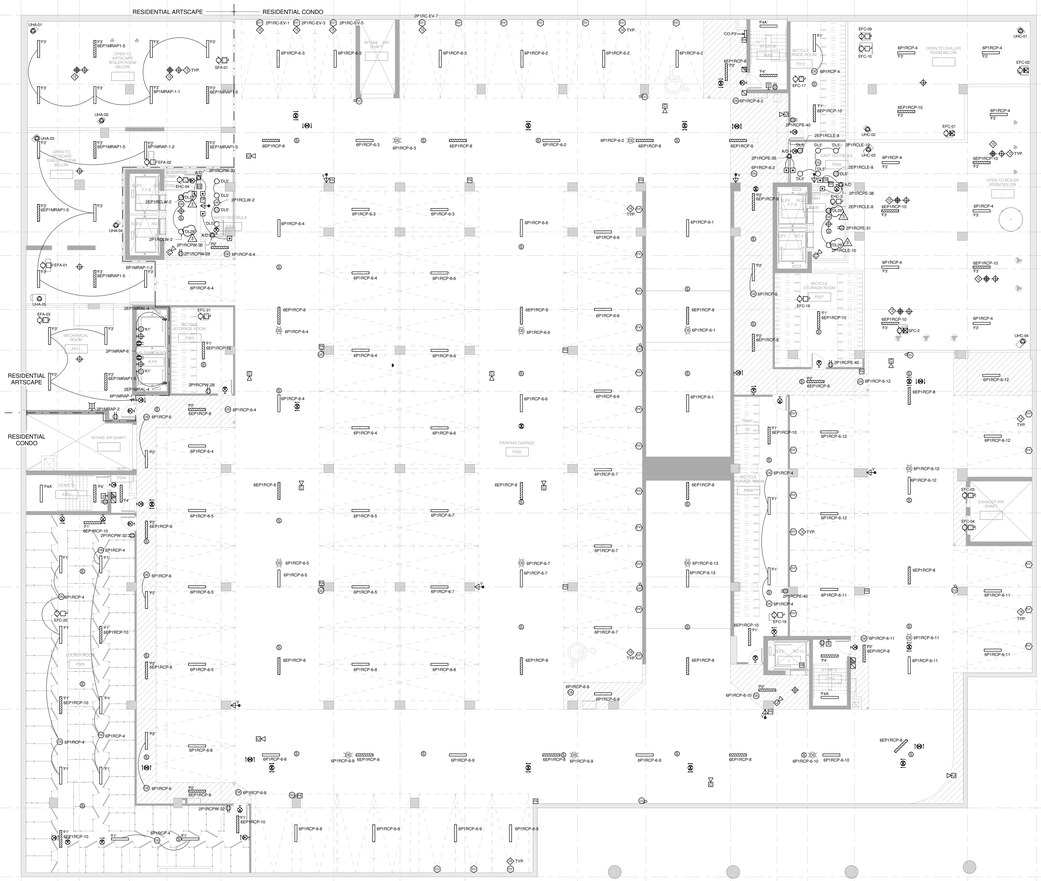
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	As indicated
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	02/25/14
Drawing No.	E0-02

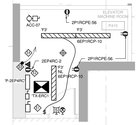
N



1 LEVEL P4 - ELECTRICAL
1 : 100



2 LEVEL P3 - ELECTRICAL
1 : 100



3 ELEVATOR MACH. ROOM P410
1 : 50

ELEVATOR MACHINE ROOM NOTES:

1. PROVIDE DISCONNECT SWITCH FOR ELEVATOR MOTOR. C/W AUXILIARY CONTACT WITH WIRING TO THE CONTROLLER. REFER TO SINGLE DIAGRAM FOR FEEDER SIZE. FUSE TO BE PROVIDE AS PER ELEVATOR SHOP.
2. DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATED TELEPHONE LINE TERMINATED ON EMERGENCY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
4. CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

NOTES:

1. ALL GARAGE LIGHT FIXTURES SHALL BE TYPE 'P1' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. PROVIDE MINIUM #10 AWG WIRING FOR ALL LIGHT FIXTURES IN STAIRS AND IN CORRIDORS.
4. ALL LIGHTING FIXTURES FED FROM NORMAL POWER WITHIN THE PARKING GARAGE SHALL BE FED FROM THE NEAREST EMERGENCY LIGHTING FIXTURES FED FROM EMERGENCY POWER WITHIN THE PARKING GARAGE SHALL BE FED FROM THE NEAREST EMERGENCY LIGHTING FIXTURE.
5. ALL EXIT SIGNS ON THIS DRAWING SHALL BE TYPE 'E1'. REFER TO DWG. E4-01 FOR CIRCUIT NUMBER.
6. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING FOR QUANTITY AND DESCRIPTION.

PROVIDE 6/16mm x 6/16mm x 3mm (TWCM) COPPER GROUND FLUSH PLATES. REFER TO SPECIFICATION FOR DETAILS.

50 AWG COPPER GROUND WIRE UP TO GROUND BUS IN MAIN ELECTRICAL ROOM (P1 LEVEL). REFER TO DWG. E4-01 FOR DETAILS.

50 AWG COPPER GROUNDING CONDUCT.

EMERGENCY KILL SWITCHES FOR HEATING BOILERS. PROVIDE LAMACOID IDENTIFICATION PLATE. MOUNT SWITCHES AT 1100MM AFF. PROVIDE SEE THROUGH TAMPER PROOF TYPE ENCLOSURE WITH LAMACOID IDENTIFICATION NAMEPLATE.

FOR FUTURE CAR WASH CONTROLLER PROVIDE POWER 15A, 120/208V 3Ø 4W POWER CONNECTION. EXACT LOCATION TO BE COORDINATED WITH ARCHITECTURAL DRAWING.

DEVICE CONNECT TO FIRE ALARM SYSTEM. REFER TO SPECIFICATION FOR DETAILS.

HEAT DETECTORS SHOWN IN THE MECHANICAL ROOM ARE FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS IN ORDER TO ALLOW THE DETECTORS OPERATE PROPERLY. CONTRACTOR SHALL INCLUDE THE SUPPLY AND INSTALLATION OF AN ADDITIONAL 5 HEAT DETECTORS. EXACT LOCATION TO BE CONFIRMED ON SITE. CONTRACTOR SHALL ON SITE REVIEW COMPLETE INSTALLATION. PROVIDE HIGH TEMPERATURE HEAT DETECTOR IN BOILER ROOM.

MOUNTING HEIGHT 1000mm A.F.F. ALL CONDUITS C/W PULL WIRE BACK TO ELETRICAL CAR CHARGING PANEL AT EAST ELECTRICAL ROOM (P1)B.

PROVIDE LOCKABLE COVER. MOUNTING HEIGHT 1000mm A.F.F.

POWER RECEPTACLE FOR FILTRATION SYSTEM. EXACT LOCATION TO BE COORDINATED WITH FILTRATION SYSTEM SHOP DRAWING.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015-12-08
2	ISSUED FOR ADD E-003	2016-01-06
3	ISSUED FOR CONSTRUCTION	2016-04-21
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IRT REVIEW	2015-05-01

No.	Issued For	Date

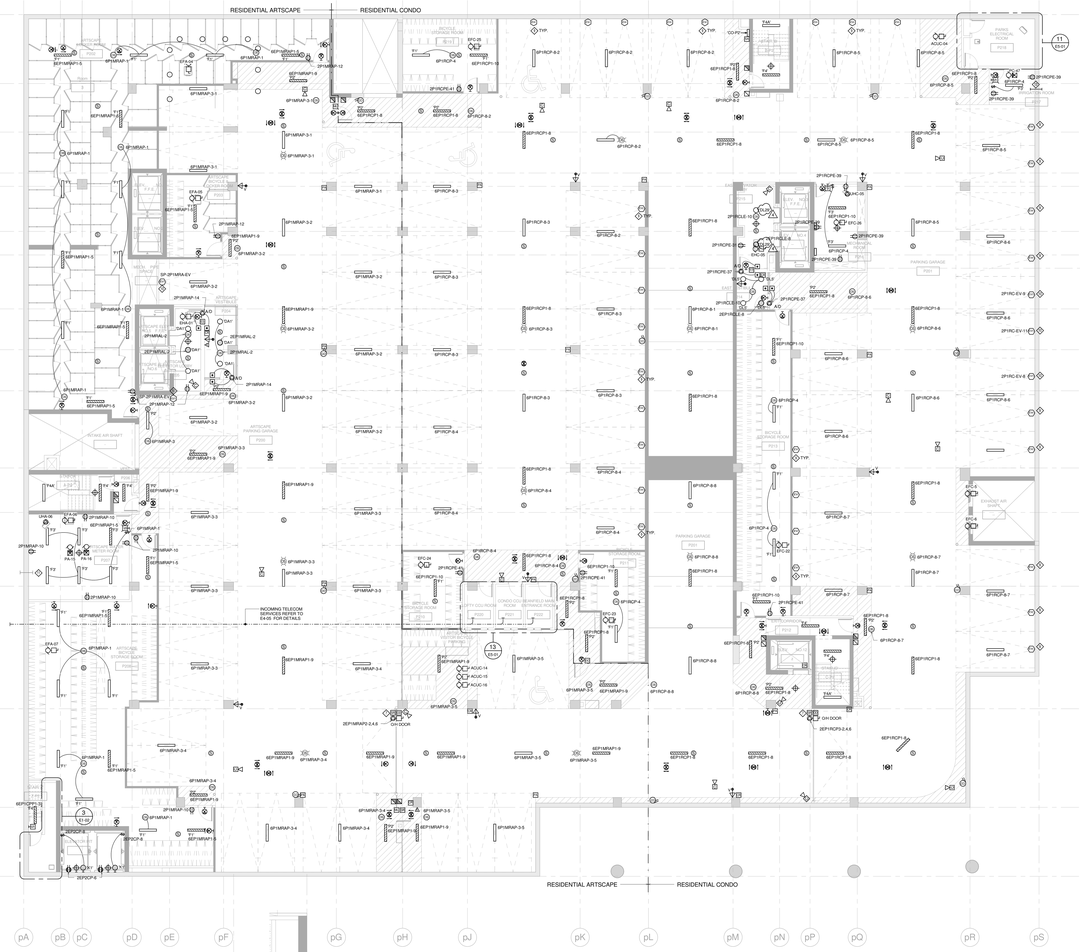
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL P4 & LEVEL P3 PARKING PLAN - ELECTRICAL

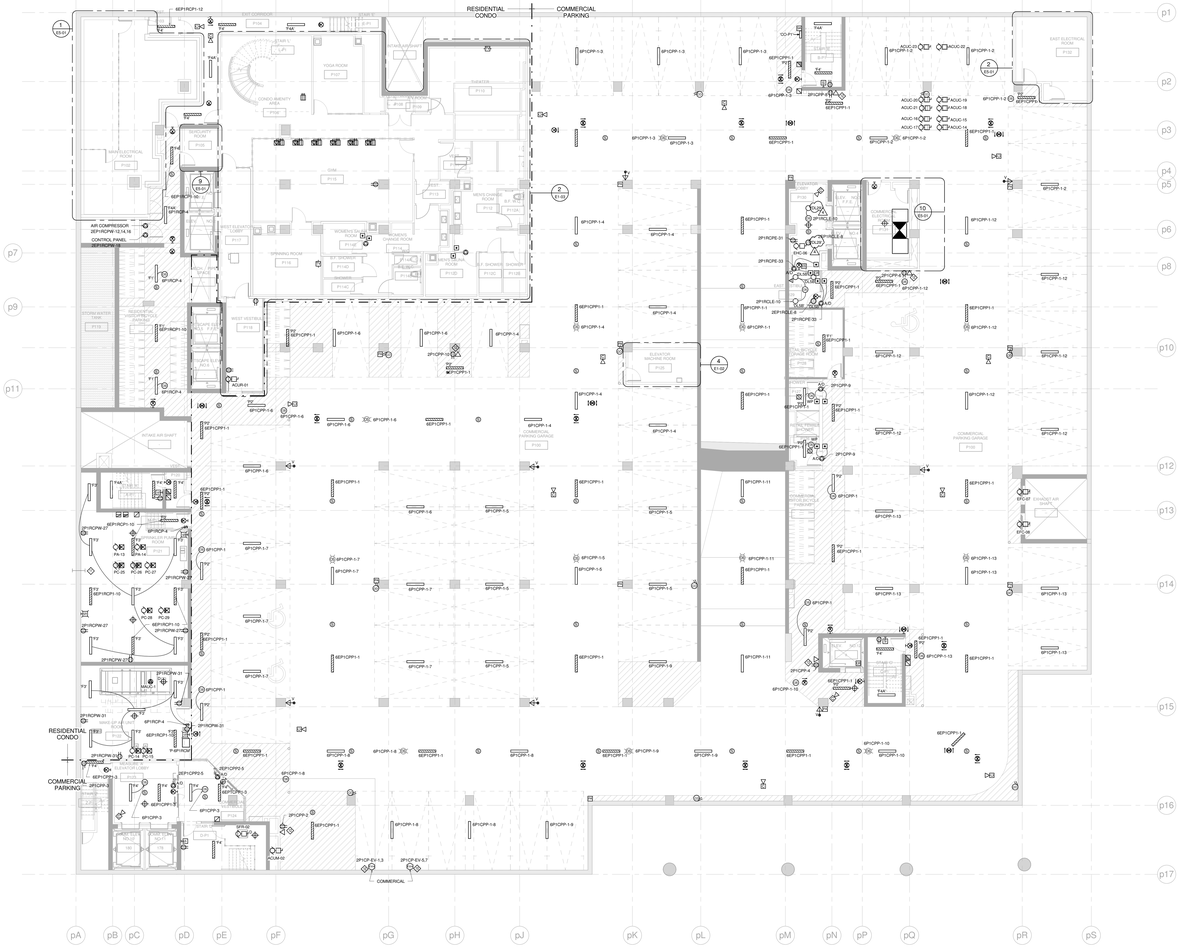
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 08/28/12
Drawing No: E1-01

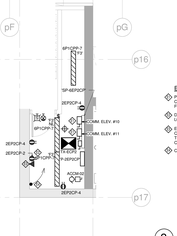
Plot Date: 22/04/2016 11:04:33 File Path: C:\Users\AD\AppData\Local\Temp\AcPublish_1212\Aquavista - Apartments - MCP_R3_E1.dwg



1 LEVEL P2 - ELECTRICAL
1 : 100



2 LEVEL P1 - ELECTRICAL
1 : 100



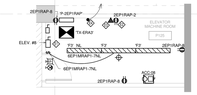
ELEVATOR MACHINE ROOM NOTES:

1. PROVIDE DISCONNECT SWITCH FOR ELEVATOR MOTOR, C/W AUXILIARY CONTACTS WIRED TO ELEVATOR CONTROLLER. REFER TO ELEVATOR DIAGRAM FOR FEEDER SIZE. FUSE TO BE PROVIDE AS PER ELEVATOR SHOP.
2. DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATED TELEPHONE LINE TO BE TERMINATED IN THE SECURITY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
4. CONCUT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

3 ELEVATOR MACH. ROOM P209
1 : 50

NOTES:

1. ALL GARAGE LIGHT FIXTURES SHALL BE TYPE 'F1' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. PROVIDE MINIMUM #12 AWG WIRING FOR ALL LIGHT FIXTURES IN STAIRS AND IN CORRIDORS.
4. ALL LIGHTING FIXTURES FED FROM NORMAL POWER WITHIN THE PARKING GARAGE SHALL BE CONTROLLED BY OCCUPANCY SENSORS. ALL LIGHTING FIXTURES FED FROM EMERGENCY POWER WITHIN THIS PARKING GARAGE SHALL BE 1 LAMP.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO THE EMERGENCY SYSTEM. REFER TO DWG. E4-01 FOR CIRCUIT NUMBER. COMMERCIAL PARKING AREA EXIT SIGNS ARE FED FROM MDP-CP1-2 OF DH-71.
6. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING FOR QUANTITY AND DESCRIPTION.
7. PROVIDE JUNCTION BOX FOR O/H DOOR CONTROL. RUN CONDUIT WITH WIRING TO CONCIERGE DESK.
8. N/A
9. MOUNTING HEIGHT 1000mm A.F.F. ALL CONDUITS C/W PULL WIRE BACK TO ELETRICAL CAR CHARGING PANEL AT EAST ELECTRICLA ROOM (P132)
10. PROVIDE LOCKABLE COVER. MOUNTING HEIGHT 1000mm A.F.F.
11. PROVIDE 1-25mmC CONDUIT C/W PULL WIRE FOR REMOTE WATER METER. EXACT LOCATION OF REMOTE WATER METER TO BE COORDINATED WITH THE CITY OF TORONTO REQUIREMENTS.
12. FOR COMMERCIAL PARKING PAY STATION.
13. PROVIDE 4-27mmC CONDUITS TO IRRIGATION CONTROLLERS. EXACT IRRIGATION CONTROLLER LOCATIONS TO BE COORDINATED ON SITE.



4 ELEVATOR MACH. ROOM P125 (ARTSCAPE)
1 : 50

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015-12-08
2	ISSUED FOR ADD E-002	2016-01-06
3	ISSUED FOR ADD E-003	2016-01-08
4	ISSUED FOR CONSTRUCTION	2016-04-01

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-29

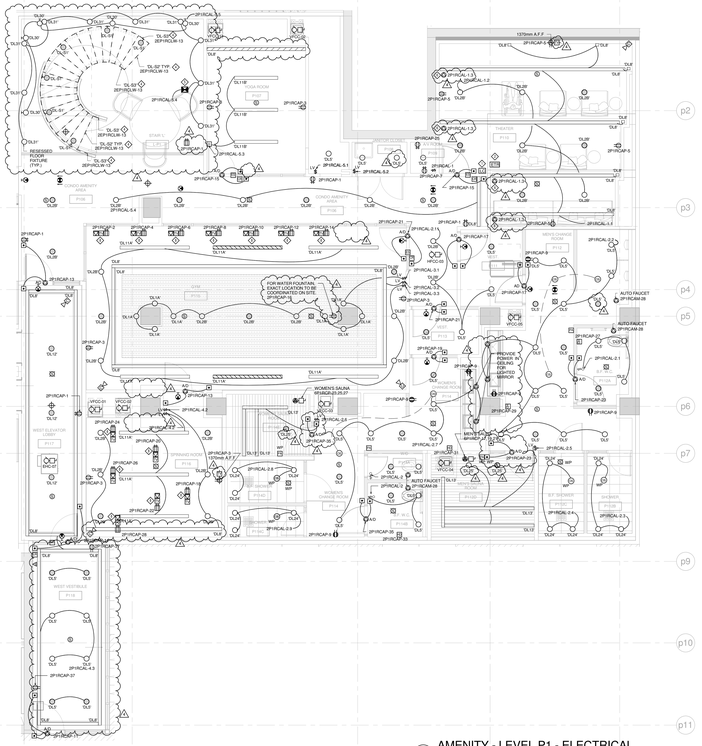
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL P2 & LEVEL P1 PARKING PLAN - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 03/06/15
Drawing No: E1-02

1 LEVEL P1 MEZZANINE - ELECTRICAL
1 : 100



2 AMENITY - LEVEL P1 - ELECTRICAL
1 : 50

NOTES:

1. LOCAL LIGHTING CONTROL WITH VACANCY SENSOR - WATTSTOPPER DW-100 OR EQUIVALENT LVDIM-100 SCENE SWITCH WITH DIMMING. ROOM CONTROLLER LVRM-210. DL2E, DL2F AND RECESSED LIGHT US PLATFORMS SHALL BE DIMMED SEPARATELY.
2. EMERGENCY TRANSFER RELAY TO BE PROVIDED FULL BRIGHTNESS - TURNS ON WHEN POWER FAILS TO THE FIXTURE.
3. ALL THE EMERGENCY LIGHTING FIXTURES ARE FED FROM PANEL 2EP-PRCLW-7.
4. PROVIDE STEP LIGHTING FOR THE FOLLOWING FIXTURES:
   TYPE 'DL-S1' LIGHTING FIXTURE IS FOOTLIGHT EPARTY 2ND STEP
   TYPE 'DL-S2' LIGHTING FIXTURE IS LED LIGHTING AT US OF STAIR TREADS
   TYPE 'DL-S1' LIGHTING FIXTURE IS LED LIGHTING AT US OF STAIR STRINGER (BOTH SIDE) - REFER TO INTERIOR DESIG DRAWING FOR DETAILS.
5. PROVIDE STEP UP TRANSFORMER FOR LIGHTING FIXTURE 'DL31'. REFER TO ID DESIGN DRAWINGOUT SHEET FOR VOLTAGE DETAIL.
6. FOR RECESSED LIGHTING AROUND PERIMETER OF PLATFORM: REFER TO ID DRAWING FOR MOUNTING DETAIL AND LIGHTING FIXTURE TYPE.
7. PROVIDE POWER, CONDUIT AND JUNCTION BOX FOR A COMPLETE POWER DOOR OPERATOR SYSTEM.
8. PROVIDE COMBINATION POWER/ALL RECESSED FLOOR BOXES
   PROVIDE 2 HOUR FIRE RATED PENETRATION SEALS.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015-03-06
2	ISSUED FOR ADD E-002	2016/01/06
3	ISSUED FOR ADD E-003	2016/01/26
4	ISSUED FOR CONSTRUCTION	2016/04/21

No.	Issued For	Date
4		
3	ISSUED FOR CONSTRUCTION	2016-04-21
2	ISSUED FOR TENDER	2015-10-30
1	BUILDING PERMIT SUBMISSION	2015-06-12

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL P1 MEZZANINE PARKING PLAN / AMENITY - LEVEL P1- ELECTRICAL

Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 03/06/15
Drawing No: E1-03

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Date: 03/09/15

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LICENSED
ONTARIO
PROFESSIONAL ENGINEER

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015-12-08
2	ISSUED FOR ADD E-002	2016/01/06
3	ISSUED FOR ADD E-003	2016/01/08
4	ISSUED FOR CONSTRUCTION	2016/04/21

NOTES:

1. ALL RETAIL TEMPORARY LIGHTING FIXTURES ARE TYPE 'F2' UNLESS OTHERWISE NOTED. PROVIDE SWITCHES FOR LIGHTING CONTROL.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SP2 FOR QUANTITY AND DESCRIPTION.
4. FIRE ALARM AND VOICE COMMUNICATION CONTROL EQUIPMENT.
5. ELEVATOR MONITORING BY DIV. 14. PROVIDE CIRCUITS AND POWER AS REQUIRED.
6. PROVIDE POWER, CONDUIT AND JUNCTION BOX FOR A COMPLETE POWERED DOOR OPERATION SYSTEM IN RETAIL AREA. POWER TO COME FROM RETAIL TENANT PANEL.
7. CONCIERGE/SECURITY DESK. PROVIDE (8) 15A, 125V CIRCUITS FROM PANEL 'P-SB1/PCR2'. PROVIDE (2) 15A/125V CIRCUITS FROM PANEL 'P-SB1/PCR2' FOR SECURITY USE. EXACT EQUIPMENT LAYOUT TO BE CO-ORDINATED WITH SECURITY CONTRACTOR AND MILLWORK SHOP DRAWINGS. (2EPIRCP2-2,4,6,8,10,12,14,16)
8. PROVIDE JUNCTION BOX FOR OH DOOR CONTROL. RUN CONDUIT WITH WIRING TO CONCIERGE DESK.
9. RUN 1-63mm E.C. & 1-4 1mm E.C. FROM ELEVATOR HOISTWAY TO C.A.C.F. AND FROM ARTISCAPE C.A.C.F. TO CONCIERGE DESK. REFER TO SPECIFICATION SECTION 16110.
10. RUN 1-63mm E.C. & 1-41mm E.C. FROM ELEVATOR HOISTWAY TO C.A.C.F. AND FROM ARTISCAPE C.A.C.F. TO CONCIERGE DESK. REFER TO SPECIFICATION SECTION 16110.
11. AREA TO BE HEAT TRACED INCLUDING TRENCH DRAINS. LOADING AREA PROVIDE 3 ZONES OF PYROTENAX CAT #5UB13 CABLES RATED AT 8000 WATTS EACH. PROVIDE 3-20A/2P GFI CIRCUITS FROM PANEL 'P-SPCR2/MP'. PROVIDE SPECIFICATION GW OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE. MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF ROOF. PROVIDE 3-20A/2P GFI CIRCUITS FROM PANEL 'P-SPCR2/MP'. PROVIDE 3-20A/2P GFI CIRCUITS FROM PANEL 'P-SPCR2/MP'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
12. AREA TO BE HEAT TRACED INCLUDING TRENCH DRAINS. EMBKING ENTRANCE PROVIDE (4)-ZONES OF PYROTENAX CAT #5UB13 CABLES RATED AT 8000 WATTS EACH. PROVIDE 4-20A/2P GFI CIRCUITS FROM PANEL 'P-SPCR2/MP'. PROVIDE SPECIFICATION GW OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE. MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF ROOF. PROVIDE 4-20A/2P GFI CIRCUITS FROM PANEL 'P-SPCR2/MP'. PROVIDE 4-20A/2P GFI CIRCUITS FROM PANEL 'P-SPCR2/MP'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
13. MOTORIZED DOOR/LOUVERS CONTROLLED FROM EACH FOR SMOKE MANAGEMENT. REFER DETAIL 3E4-02 FOR CONTROL DETAILS.
14. ALL ELECTRICAL WORK IN THIS AREA SHALL BE EXPLOSION PROOF CLASS 1, DIVISION 1. MAINTAIN ALL THE OTHER ELECTRICAL SERVICES OUT OF THIS AREA.
15. EXIT SIGNS IN RETAIL AREA, RETAIL LOADING AREA AND RETAIL SERVICE CORRIDOR ARE FED FROM 'BE1MCRP-5'.
16. LIGHTING SHALL BE WIRED THROUGH A CONTACTOR & CONTROLLER USING A TIMER.
17. PROVIDE 2/c#4C CONDUIT C/W PULL WIRE TO SECURITY ROOM @ PT LEVEL FOR VIRTUAL CONCIERGE DESK.
18. TYPE DL 20" LIGHTING FIXTURE IS LED LIGHTING AT LVS OF STAIR TREAD. TYPE DL-SE LIGHTING FIXTURE IS LED LIGHTING AT LVS OF STAIR STRINGER (BOTH SIDES) TYPE DL-SE LIGHTING FIXTURE IS LED LIGHTING AT LVS OF STAIR STRINGER (BOTH SIDES) PROVIDE STEP UP TRANSFORMER FOR TYPE 'SE' LIGHTING FIXTURES.
19. PROVIDE 2/c#4C CONDUIT C/W PULL WIRE FOR EMERGENCY CALL SYSTEM IN UNIVERSAL WASHROOM.
20. RUN 2/c#4C CONDUIT C/W PULL WIRE BACK TO SECURITY ROOM AND CONCIERGE DESK FROM EMERGENCY CALL SYSTEM IN UNIVERSAL WASHROOM.
21. PROVIDE STEP UP TRANSFORMER FOR TYPE 'SE' LIGHTING FIXTURES.

ELEVATOR MACHINE ROOM NOTES:

1. PROVIDE DISCONNECT SWITCH FOR ELEVATOR MOTOR. C/W AUXILIARY CONTACT WITH WIRING TO THE CONTROLLER. REFER TO SINGLE DIAGRAM FOR FEEDER SIZE. FUSE TO BE PROVIDE AS PER ELEVATOR SHOP.
2. DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATE TELEPHONE LINE TERMINATED IN ELEVATOR MACHINE ROOM. EMPTY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
4. CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

No.	Issued For	Date
4		
3	ISSUED FOR CONSTRUCTION	2016-04-21
2	ISSUED FOR TENDER	2015-10-30
1	BUILDING PERMIT SUBMISSION	2015-06-12

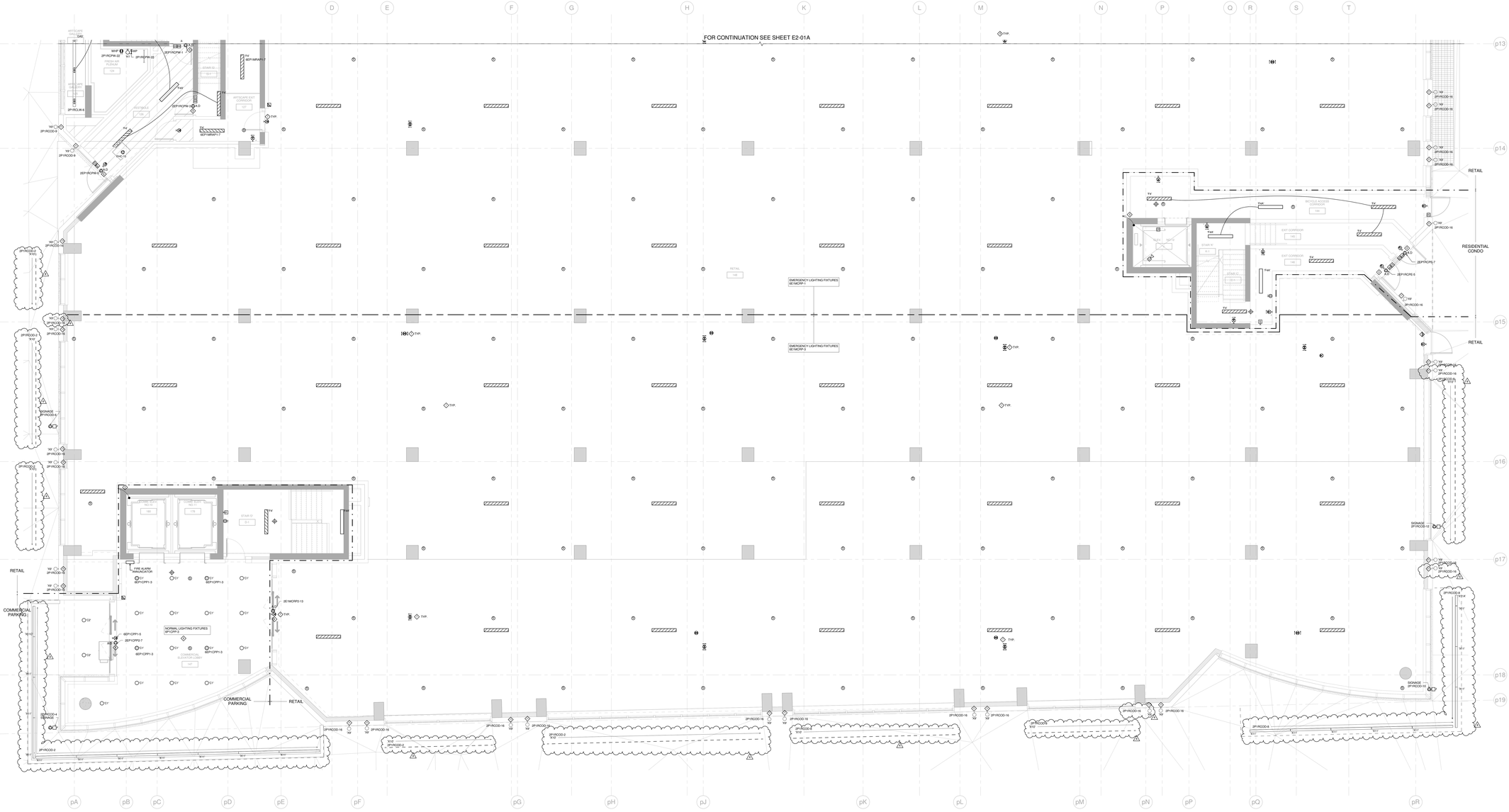
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 1 FLOOR PLAN
NORTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-01A

N



NOTES:

1. ALL RETAIL TEMPORARY LIGHTING FIXTURES ARE TYPE 'F2' UNLESS OTHERWISE NOTED. PROVIDE SWITCHES FOR LIGHTING CONTROL.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO: MHSEQA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. PROVIDE POWER, CONDUIT AND JUNCTION BOX FOR A COMPLETE POWER DOOR OPERATION SYSTEM.
5. RUN 1-63mm E.C. & 1-41mm E.C. FROM ELEVATOR HOISTWAY TO C.A.C.F. AND FROM C.A.C.F. TO CONCIERGE DESK. REFER TO SPECIFICATION SECTION 16110.
6. MOTORIZED DOORS/LOUVERS CONTROLLED FROM CACF FOR SMOKE MANAGEMENT. REFER DETAIL U5/4-02 FOR CONTROL DETAILS.
7. EXIT SIGNS IN RETAIL AREA, RETAIL LOADING AREA AND RETAIL SERVICE CORRIDOR ARE FED FROM 5E1NCRP-3.
8. LIGHTING SHALL BE WIRED THROUGH AUTOMATION & CONTROLLAB USING A TIMER.
9. ELEVATOR MONITORING BY DIV. 14. PROVIDE CIRCUITS AND POWER AS REQUIRED.
10. PROVIDE POWER, CONDUIT AND JUNCTION BOX FOR A COMPLETE POWER DOOR OPERATION SYSTEM IN RETAIL AREA. POWER TO COME FROM RETAIL TENANT PANEL.
11. PROVIDE STEP UP TRANSFORMER FOR TYPE 'S5' LIGHTING FIXTURES.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015-12-09
2	ISSUED FOR ADD E-002	2016-01-06
3	ISSUED FOR ADD E-003	2016-01-08
4	ISSUED FOR CONSTRUCTION	2016-04-01

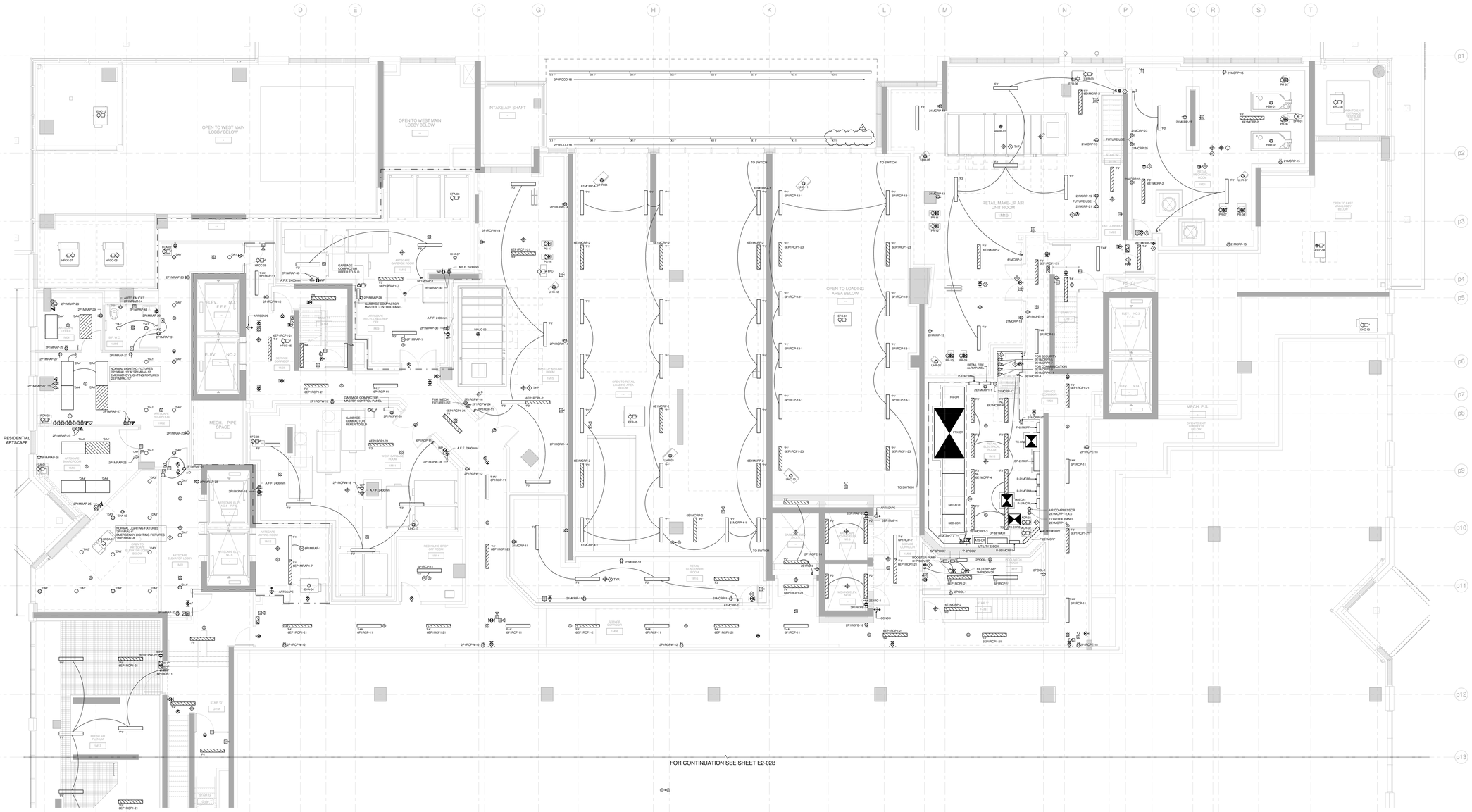
No.	Issued For	Date
4		
3	ISSUED FOR CONSTRUCTION	2016-04-01
2	ISSUED FOR TENDER	2015-10-30
1	BUILDING PERMIT SUBMISSION	2015-06-12

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 1 FLOOR PLAN
SOUTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale: 1 : 50
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 03/09/15
Drawing No: E2-01B



NOTES:

1. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING S5Y FOR QUANTITY AND DESCRIPTION.

◇ EXACT LOCATION FOR POOL EQUIPMENT REFER TO POOL EQUIPMENT SHOP DRAWING.

◇ EMERGENCY STOP SYSTEM REFER TO POOL EQUIPMENT SHOP DRAWING FOR DETAIL.

◇ EMERGENCY KILL SWITCHES FOR HEATING BOILERS. PROVIDE LAMACOID IDENTIFICATION PLATE. MOUNT SWITCHES AT 1500MM AFF. PROVIDE SEE THROUGH TAMPER PROOF TYPE ENCLOSURE WITH LAMACOID IDENTIFICATION NAMEPLATE.

◇ DEVICE CONNECT TO FIRE ALARM SYSTEM. REFER TO SPECIFICATION FOR DETAILS.

◇ HEAT DETECTORS SHOWN IN THE MECHANICAL ROOM ARE FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO CLEAR THE DETECTOR WAY FROM OBSTRUCTIONS AND PROVIDE ADEQUATE SPACE AROUND THE DEVICE TO ENSURE PROPER OPERATE PROPERLY. CONTRACTOR SHALL INCLUDE THE SUPPLY AND INSTALLATION OF AN ADDITIONAL 5 HEAT DETECTORS. EXACT LOCATIONS OF ADDITIONAL DETECTORS TO BE FINALIZED ON SITE DURING CONSTRUCTION. INSTALLATION: PROVIDE HIGH TEMPERATURE HEAT DETECTOR IN BOILER ROOM.

◇ SECURITY DESK. PROVIDE 20 15A, 120V CIRCUITS FROM PANEL 'P-SEPIRAP2' REFER TO SECURITY DWG. E4-02 FOR ADDITIONAL INFORMATION. SECURITY DESK. EXACT EQUIPMENT LAYOUT TO BE CO-ORDINATED WITH SECURITY CONTRACTOR AND MILLWORK SHOP DRAWINGS. (3EP1RAP2-2,4,6,8,10,12,14,16)

◇ EXIT SIGNS IN RETAIL MECHANICAL ROOM AND ELECTRICAL ROOM ARE FED FROM 5E1MCRP-5

◇ LIGHTING SHALL BE WIRED THROUGH A CONTACTOR & CONTROLLER USING A TIMER.

ELECTRICAL ROOM NOTES:

◇ GROUND BUSS INTERCONNECTED WITH #1/0 AWG GROUND WIRE. MOUNT GROUND: LOOP AT HIGH AND LOW ENDS OF GROUND BUSS. BONDING: BOND TO GROUND BUSS ALL EQUIPMENT TO GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.

◇ PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.

◇ PROVIDE 1200mm(W) X 2400mm(H) X 19mm(D) PLYWOOD BACKBOARD. REFER TO COMMUNICATION / SECURITY RISER E4-05 / E4-06 FOR CONDUITS DETAIL.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015-12-08
2	ISSUED FOR ADD E-002	2016-01-06
3	ISSUED FOR ADD E-003	2016-01-08
4	ISSUED FOR CONSTRUCTION	2016-04-21

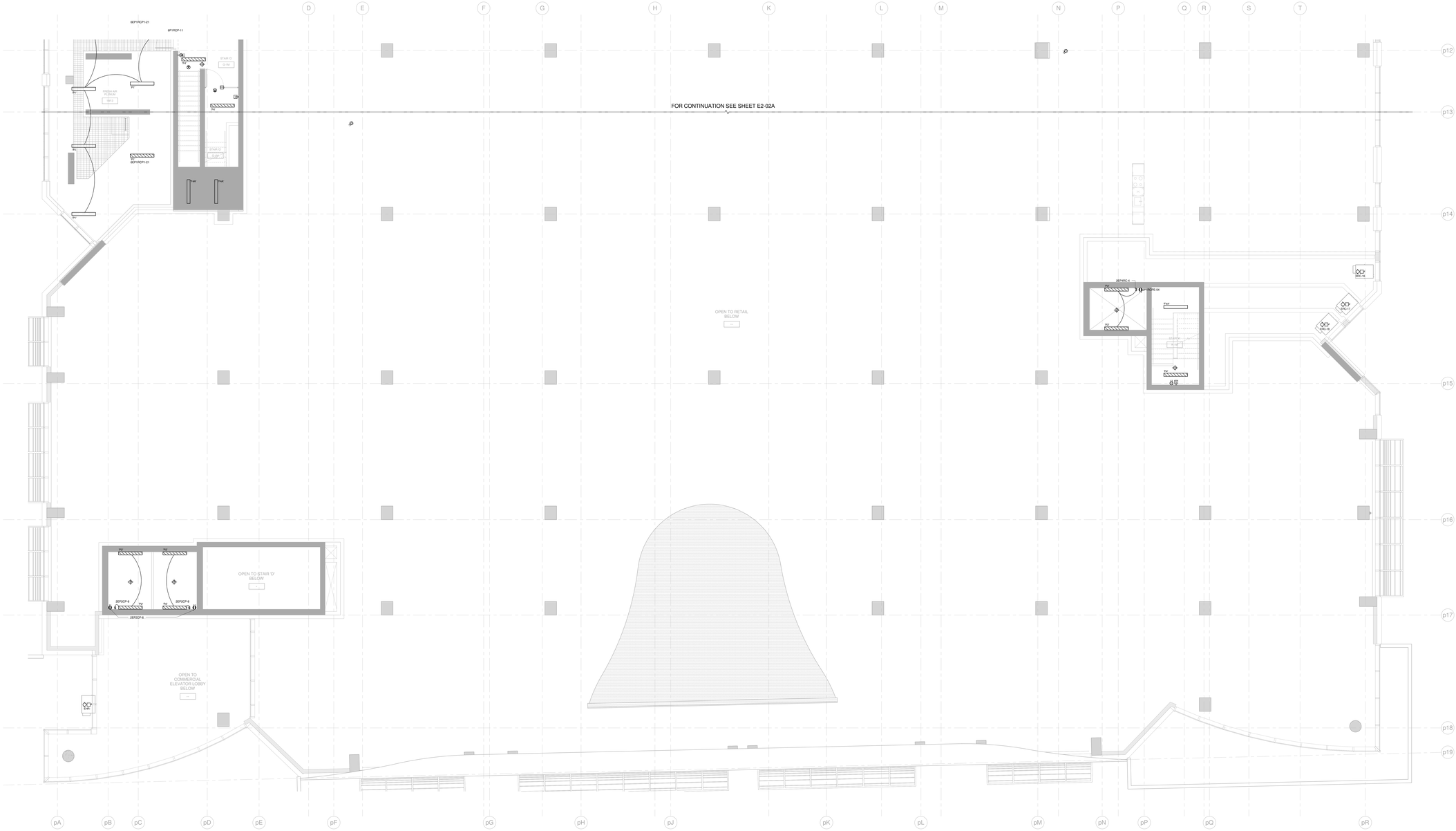
No.	Issued For	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-04-21
1	ISSUED FOR TENDER	2015-11-06

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 1 MEZZANINE FLOOR PLAN NORTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale 1 : 50
Drawn by Author
Checked by Checker
Project No. 8489D
Date 03/09/15
Drawing No. E2-02A



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Daughtry Robbins Trail Saint John

No.	Revision	Date

No.	Issued For	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2018-04-21
1	ISSUED FOR TENDER	2015-10-05

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 1 MEZZANINE FLOOR PLAN SOUTH-ELECTRICAL

Project

Hines TRIDEL

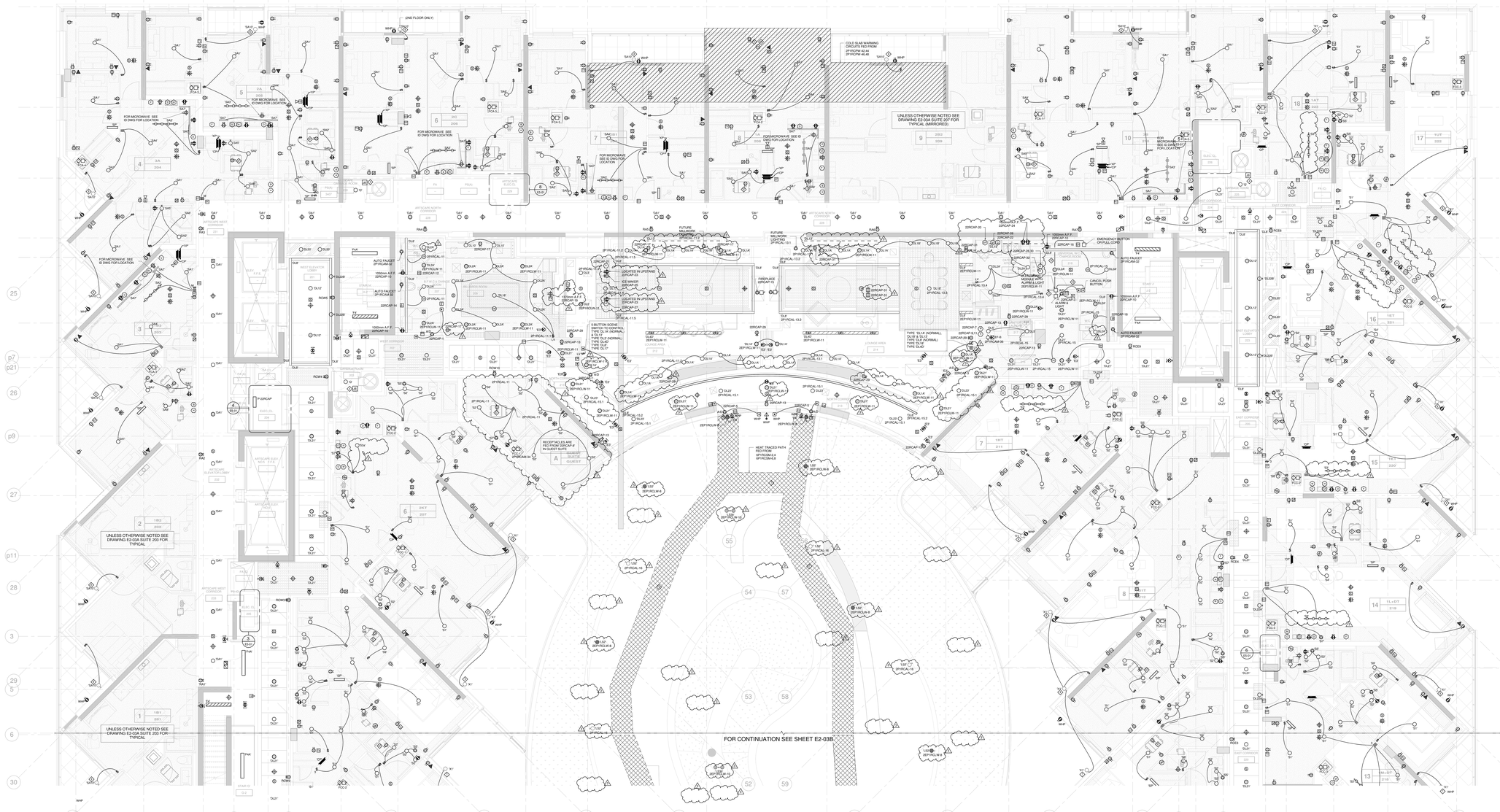
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15

N

Drawing No.

E2-02B



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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015-12-08
2	ISSUED FOR ADD E-002	2016-01-06
3	ISSUED FOR CONSTRUCTION	2016-04-01

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SPF FOR QUANTITY AND DESCRIPTION.

1. ROUGH IN SERVICES FOR DISPOSAL SYSTEM WIRING. - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02)
2. SLAB WARMING CABLES BELOW SUITES AT LEVEL 1 MEZZ FLOOR. PROVIDE SYSTEM BASED ON - 75'C STARTING TEMPERATURE WITH RSI INSULATION VALUE OF 9/9SQ.1. SYSTEM HEAT LOSS REPLACEMENT CABLE AND LINE VOLTAGE THERMOSTAT AS REQUIRED. PROVIDE 2-20A/1SM GFI BREAKERS FOR CIRCUITS.
3. PROVIDE MINIMUM ONE HEAT SENSOR ON CEILING CAVITY AT HEATED SLAB FOR EACH CIRCUIT.
4. AREA TO BE HEAT TRACED. PROVIDE 2 ZONE OF PYROTENAX CAT #5UB12 CABLES RATED AT 800 WATTS EACH. 600V (OTHWQ5M). PROVIDE SNOW MELTING CONTROLS AS PER SPECIFICATION C/W OVERHEAD SENSOR, CONTACTOR AND N.I. PANEL. SENSOR TO BE PROTECTED FROM DIRECT SUNLIGHT AND LOCATED AT EDGE OF FLOOR SLAB ABOVE AND SLAB SENSOR. CLEAR OF HEATED SPACE. PROVIDE 2-30A GFI BR CIRCUITS FROM PANEL 1P-WHTCSM. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
5. TYPE 'SA-5' LIGHTING FIXTURES ARE LOCATED ON LEVEL 2 ONLY.
6. TYPE 'H' LIGHTING FIXTURES ARE LOCATED ON LEVEL 2 ONLY.
7. PROVIDE 21mmC CONDUIT C/W PULL WIRE FOR EMERGENCY CALL SYSTEM IN UNIVERSAL WASHROOM.
8. RUN 27mmC CONDUIT C/W PULL WIRE BACK TO SECURITY ROOM AND CONCIERGE DESK FOR EMERGENCY CALL SYSTEM IN UNIVERSAL WASHROOM.

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-01
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	INT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 2 FLOOR PLAN
NORTH - ELECTRICAL

Project

Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale: 1 : 50

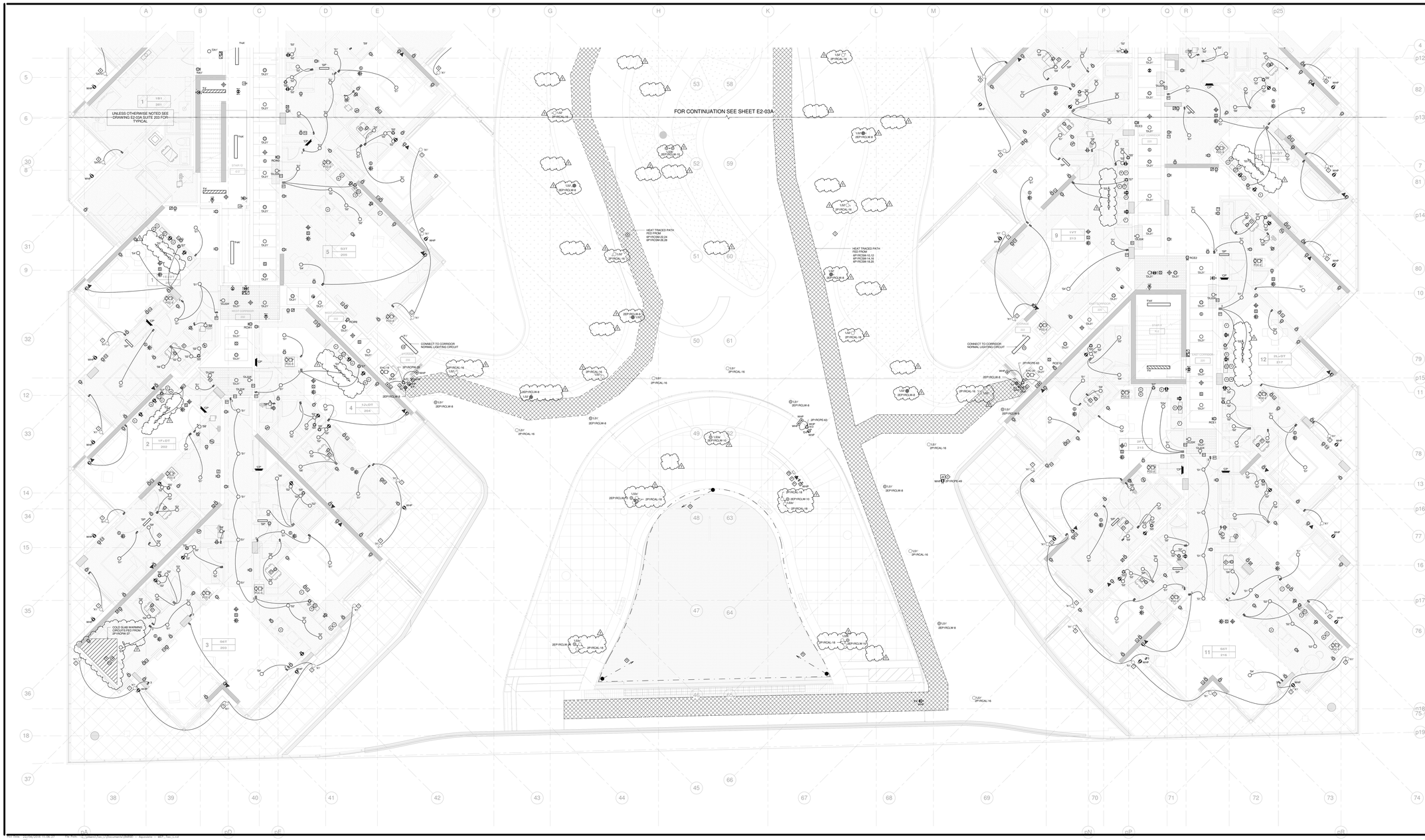
Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 03/09/15

Drawing No: E2-03A



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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015-12-08
2	ISSUED FOR ADD E-002	2016-01-06
3	ISSUED FOR CONSTRUCTION	2016-04-21

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STARS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SPF FOR QUANTITY AND DESCRIPTION.
4. WEATHER PROOF JUNCTION BOX FOR IRRIGATION CONTROL SYSTEM. PROVIDE 1-27mmC CONDUITS TO IRRIGATION RISER(ON PLUVES). EANCO LOCATION AND JUNCTION BOX SIZE TO BE COORDINATED WITH IRRIGATION SHOP DRAWING.
5. AREA TO BE HEAT TRACED. PROVIDE DUS ZONE OF PYROTENAX CAT #5JB10 CABLES RATED AT 8000 WATTS EACH, 600V (STW/SQM). PROVIDE SNOW-MELTING CONTROLS TO SUIT. PROVIDE ALL CONDUIT, WIRING, CONTROLS, ALL ACCESSORIES AND ALL INSTALLATION HARDWARE, MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF FLOOR SLAB ABOVE AND SLAB SENSOR, CLEAR OF HEATED SPACE. PROVIDE 0.20A DP GFI CIRCUIT BREAKER IN PANELBOARD. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
6. TYPE 'SAV' LIGHTING FIXTURES ARE LOCATED ON LEVEL 2 ONLY.
7. TYPE 'X1' LIGHTING FIXTURES ARE LOCATED ON LEVEL 2 ONLY.

POOL NOTES:

P1. PROVIDE EMERGENCY SHUT-OFF SWITCH COMPLETE WITH A NORMALLY OPEN AND A NORMALLY CLOSED RELAY. WIRE IN SUCH A MANNER THAT ACTUATING THE SWITCH WILL SHUT OFF ALL POOL PUMPS AND ALL POWER ASSOCIATED WITH THE POOL AND ACTIVATES AN AUDIO AND VISUAL ALARM LOCALLY AND AT THE SECURITY DESK. WHEN THE BUTTON IS RESET, THE POWER TO THE POOL PUMPS AND THE ALARM WILL BE SILENCED. MOUNT AT 1200mm AFF.

P2. THE METAL PARTS OF THE POOL AND OF OTHER NON-ELECTRICAL EQUIPMENT WITHIN 1.5m HORIZONTALLY OF THE POOL WATER SHALL BE ELECTRICALLY BONDED TOGETHER AND TO NON-CURRENT CARRYING METAL PARTS BY A COPPER BONDING CONDUCTOR.

P3. POOL REINFORCING SHALL BE BONDED WITH A MINIMUM OF TWO CONNECTIONS EQUALLY SPACED AROUND THE PERIMETER. BONDING CONDUCTORS FOR THE POOL SHALL BE MINIMUM 8AWG.

P4. ALL ELECTRICAL WIRING, POOL EQUIPMENT CONNECTION SHALL BE IN ACCORDANCE WITH SECTION 68 OF O.E.S. CODE.

P5. PROVIDE SEPARATE GROUND WIRE IN ALL SERVICES TO THE POOL.

P6. PROVIDE #6 AWG CONDUCTOR TERMINAL AT MAIN DISTRIBUTION BOARD.

P7. EMERGENCY PHONE OUTLET @ 1350mm A.F.F

P8. EMERGENCY VISUAL AND AUDIBLE ALARM.

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 2 FLOOR PLAN
SOUTH - ELECTRICAL

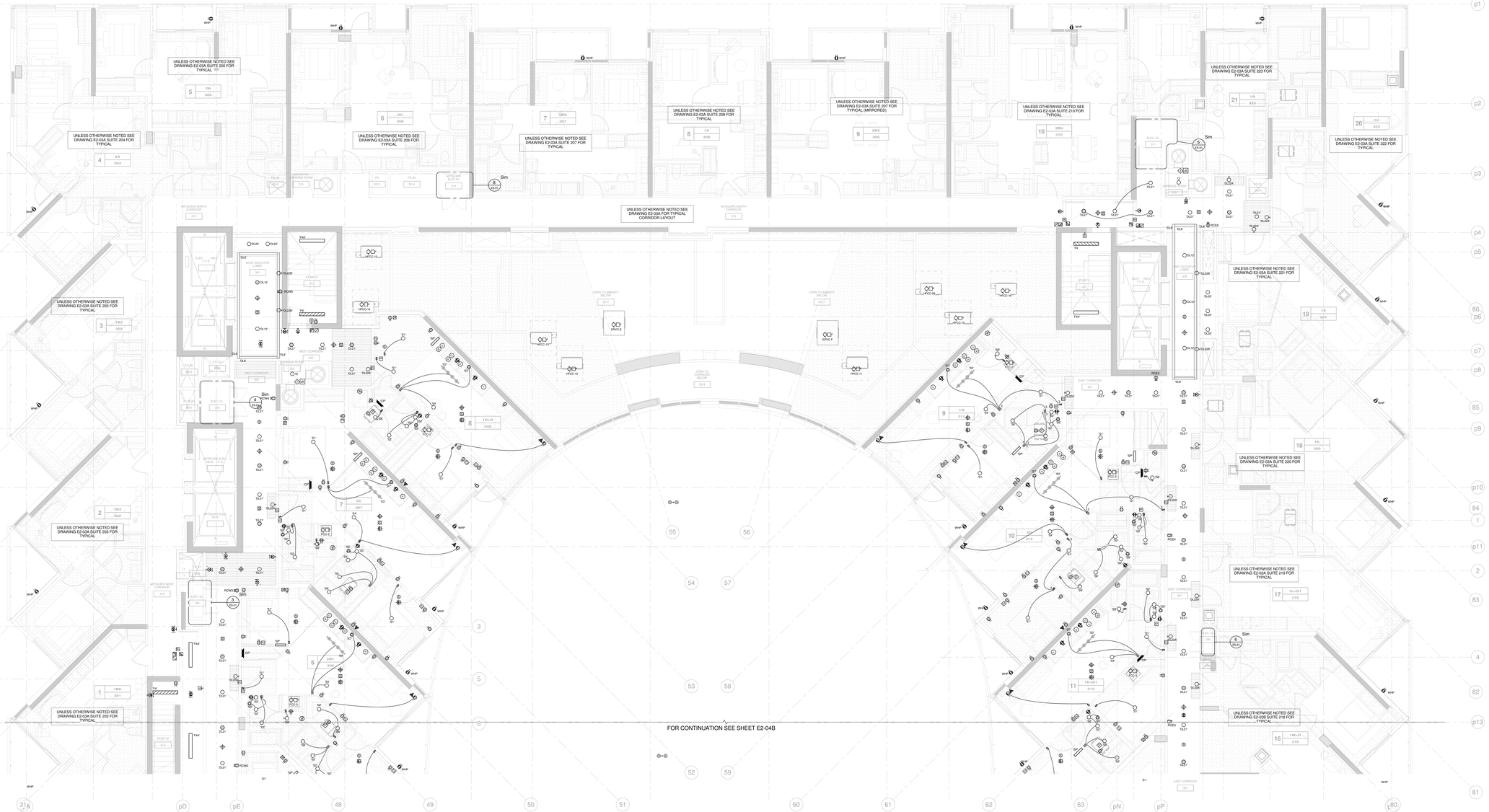
Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-03B

N



NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SPK FOR QUANTITY AND DESCRIPTION.

◇ ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/16

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 3 FLOOR PLAN NORTH - ELECTRICAL

Project

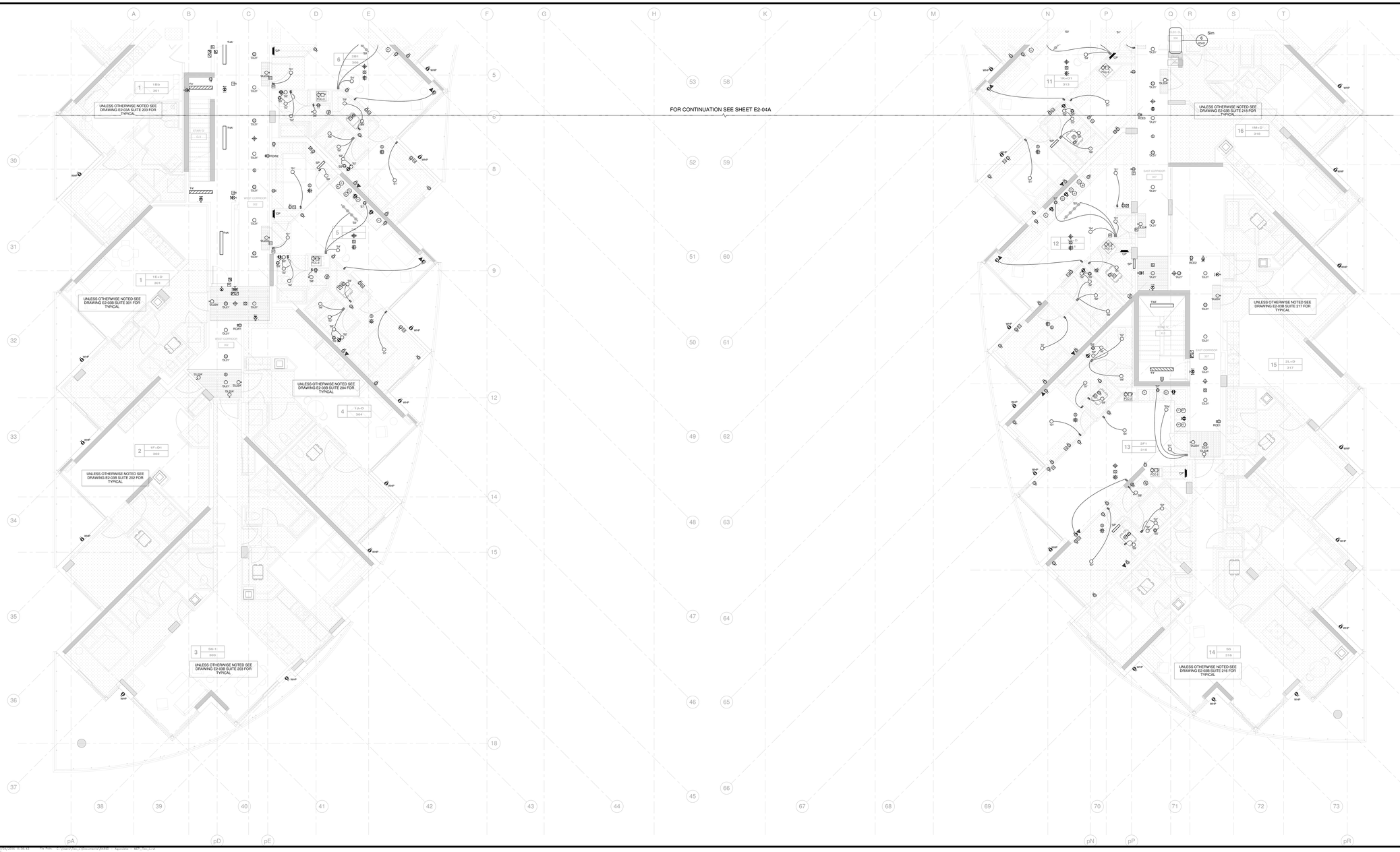
Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	08/29/12

Drawing No.

E2-04A



NOTES:

1. ALL EXIT SIGNS ARE TYPE E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STARS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SF2' FOR QUANTITY AND DESCRIPTION.

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Toronto Vancouver Windsor Moncton Ottawa Halifax Guelph Kitchener Trail Saint John

No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15

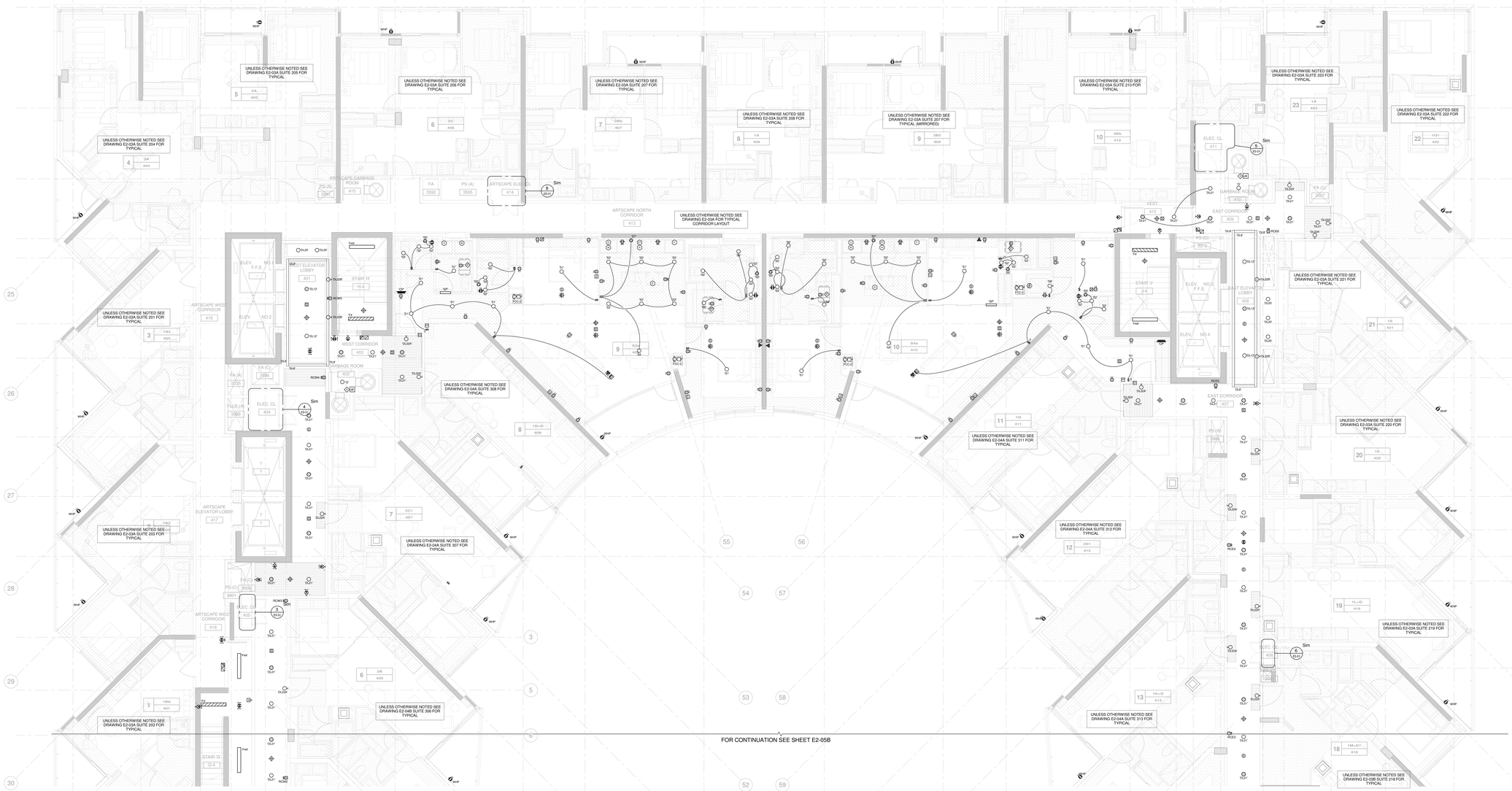
No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 3 FLOOR PLAN
SOUTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-04B



NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SPIV FOR QUANTITY AND DESCRIPTION.

◇ ROUGH IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/18

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IMT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 4 FLOOR PLAN NORTH - ELECTRICAL

Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-05A

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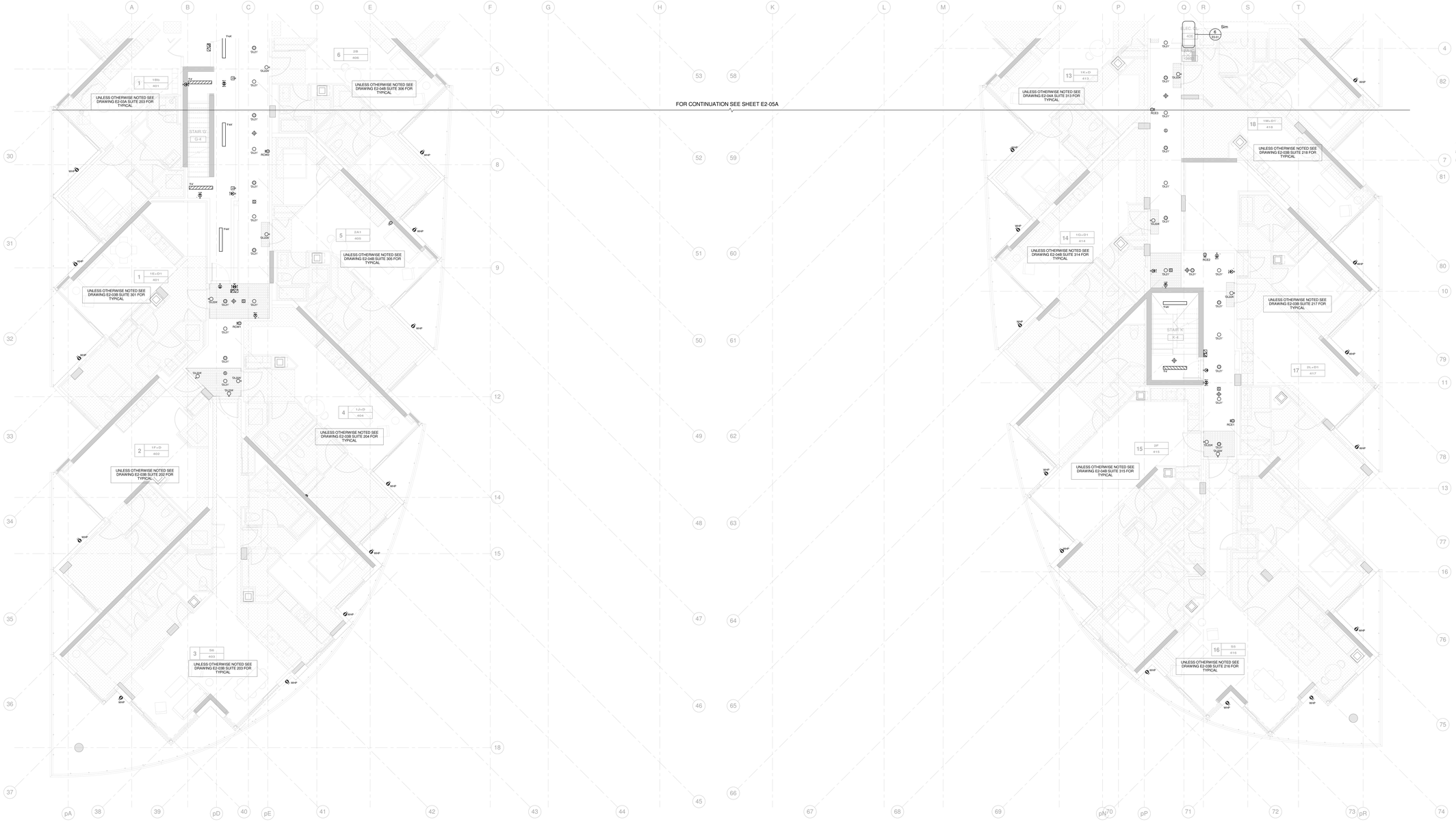

NOTES:

1. ALL EXIT SIGNS ARE TYPE E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SPZ FOR QUANTITY AND DESCRIPTION.

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03/09/15
Date

D. C. M. BELLAMY
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PROVINCE OF ONTARIO

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 4 FLOOR PLAN
SOUTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-05B

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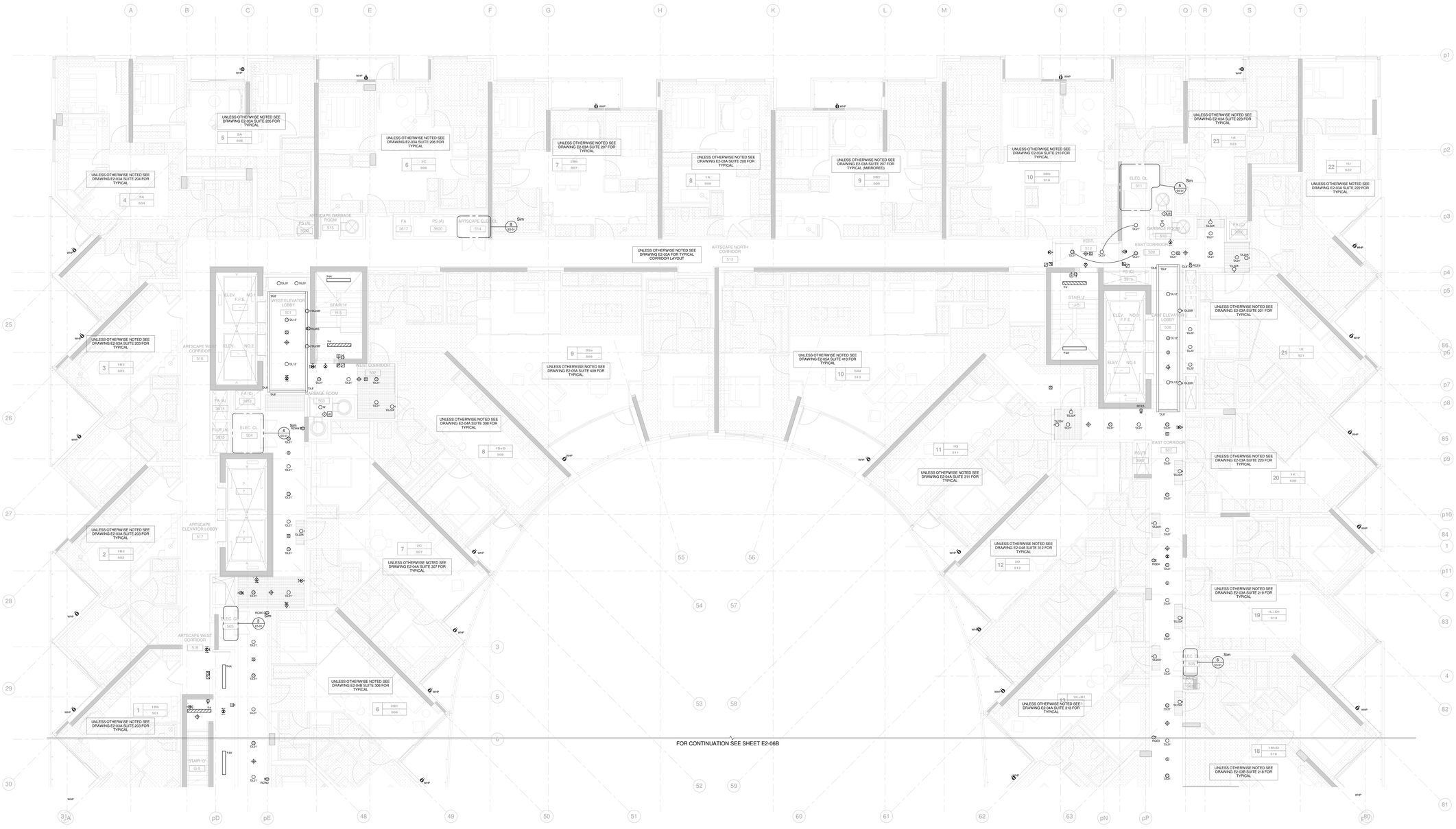

NOTES:

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2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SPIC FOR QUANTITY AND DESCRIPTION.

◇ ROUGH IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).

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Dayton Kelowna Trail Saint John

No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

No.	Issued For	Date

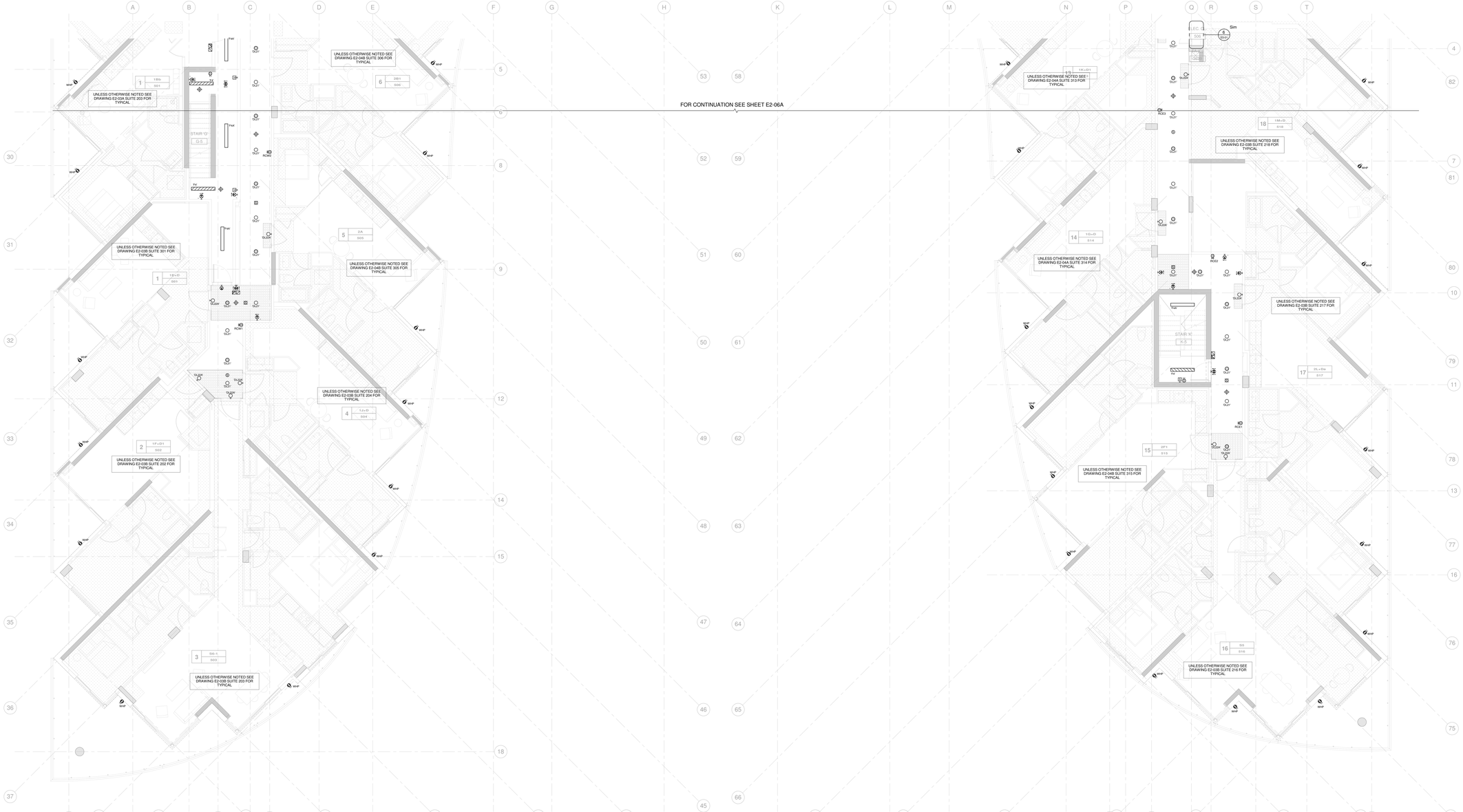
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 5 FLOOR PLAN
NORTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale 1 : 50
Drawn by Author
Checked by Checker
Project No. 8489D
Date 03/09/15
Drawing No. E2-06A

Plot Date : 22/04/2016 11:31:17 AM File Path : C:\Users\Lee\Documents\MRPIC - Aquavista - MCP_Rev_2014



NOTES:

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2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SF2 FOR QUANTITY AND DESCRIPTION.

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03-09-15
Date

D. C. M. BELLAMY
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REGISTERED PROFESSIONAL ENGINEER

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Guelph Kitchener Trail Saint John

No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 5 FLOOR PLAN
SOUTH - ELECTRICAL

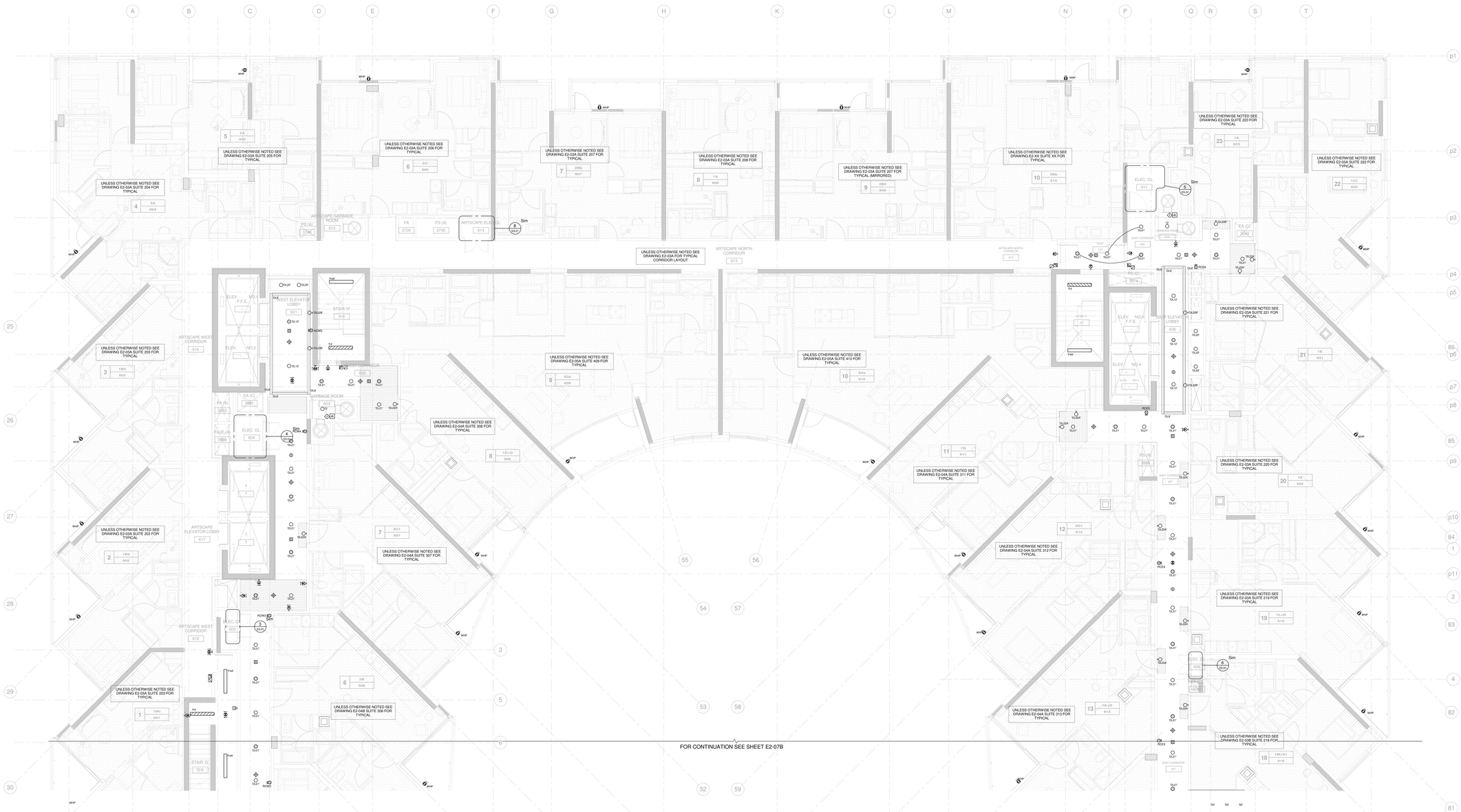
Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-06B

N



NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SPIF FOR QUANTITY AND DESCRIPTION.

◇ ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).

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Guelph Kitchener Trail Saint John

No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

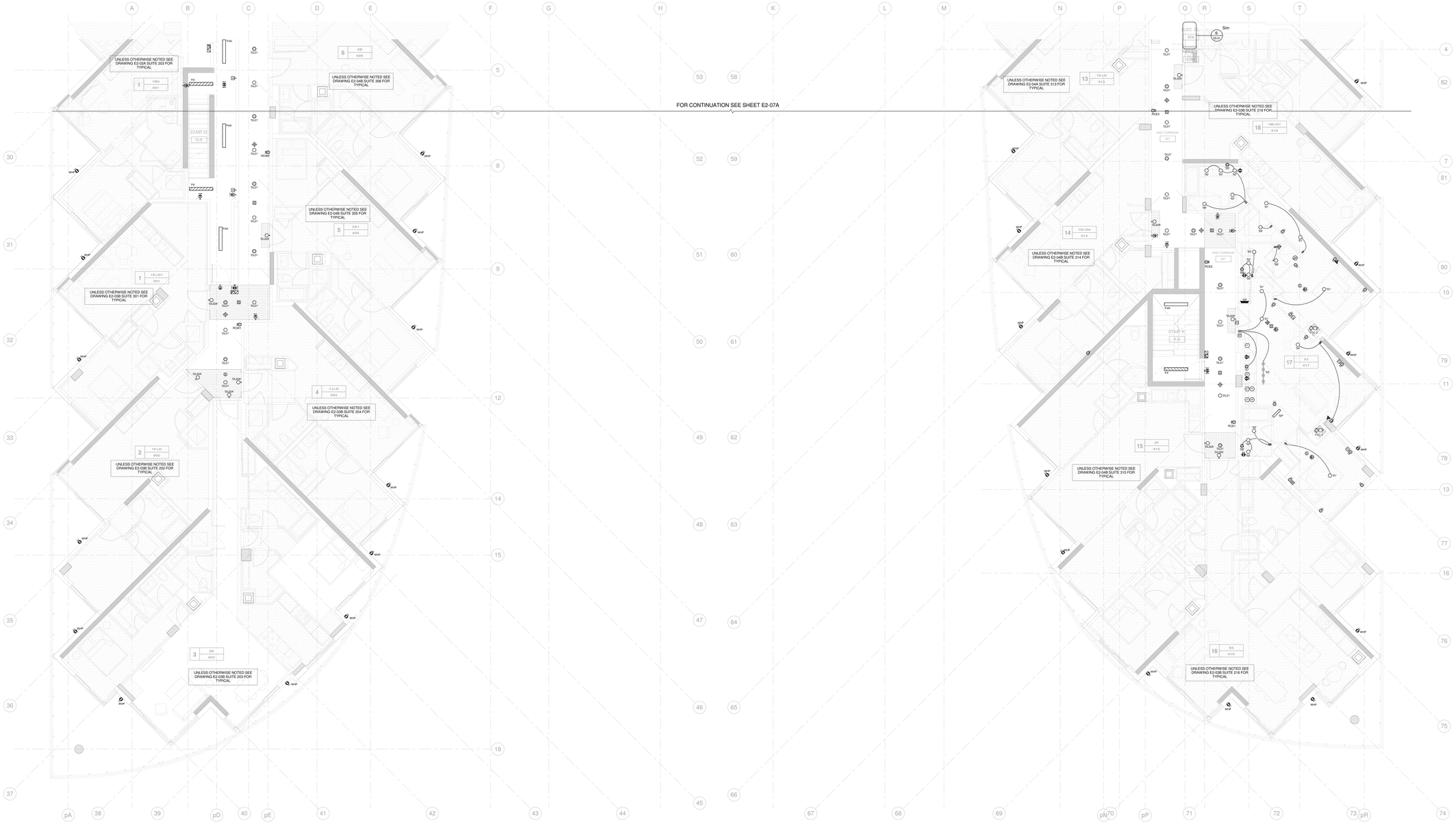
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 6 FLOOR PLAN
NORTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-07A

N



NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15

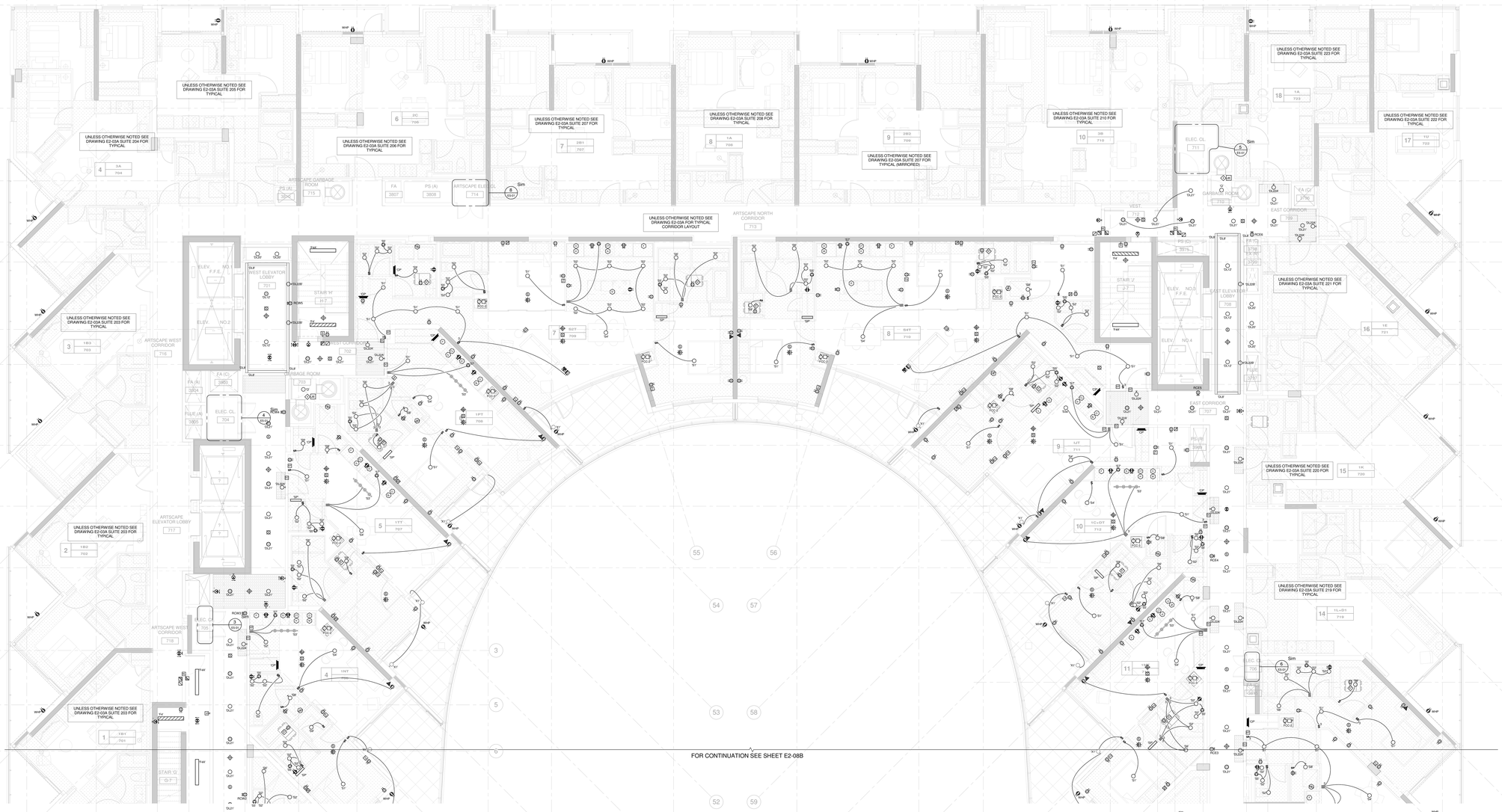
No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IAT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 6 FLOOR PLAN
SOUTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale 1 : 50
Drawn by Author
Checked by Checker
Project No. 8489D
Date 03/09/15
Drawing No. E2-07B



NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SPK FOR QUANTITY AND DESCRIPTION.
4. ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).
5. TYPE 'X1' LIGHTING FIXTURES ARE LOCATED ON LEVEL 7 ONLY.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IKT REVIEW	2015-05-01

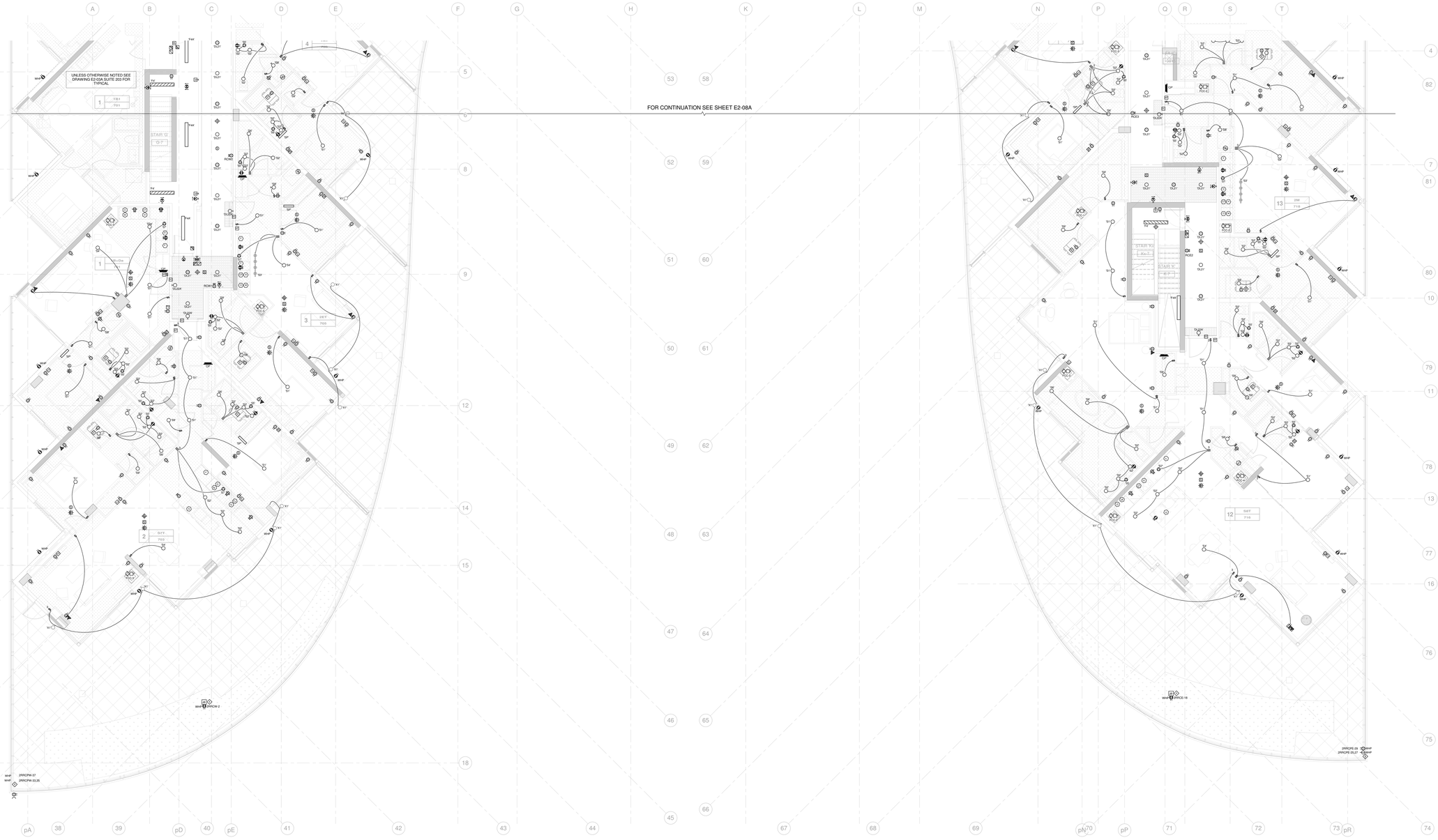
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 7 FLOOR PLAN
NORTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale 1 : 50
Drawn by Author
Checked by Checker
Project No. 8489D
Date 03/09/15
Drawing No. E2-08A



NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA MCGARGAR/FIRE SHARING SPS FOR QUANTITY AND DESCRIPTION.
4. WEATHER PROOF JUNCTION BOX FOR IRRIGATION CONTROL SYSTEM. PROVIDE 1-2(THWN) #12 AWG CONDUITS FROM JUNCTION BOX TO CONTROL SYSTEM AND JUNCTION BOX SIZE TO BE COORDINATED WITH IRRIGATION SHOP DRAWING.
5. TYPE 'X1' LIGHTING FIXTURES ARE LOCATED ON LEVEL 7 ONLY.
6. PROVIDE A 30A, 208V 1φ SURFACE MOUNTED WEATHERPROOF TWIST LOCK TYPE RECEPTACLE. RECEPTACLE SHALL BE CAPABLE OF ACCEPTING A PLUG TYPE HBL360SW (EQUAL) UL-SIRL. PROVIDE ALSO A 120 VOLT DUPLEX RECEPTACLE.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 7 FLOOR PLAN
SOUTH - ELECTRICAL

Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-08B

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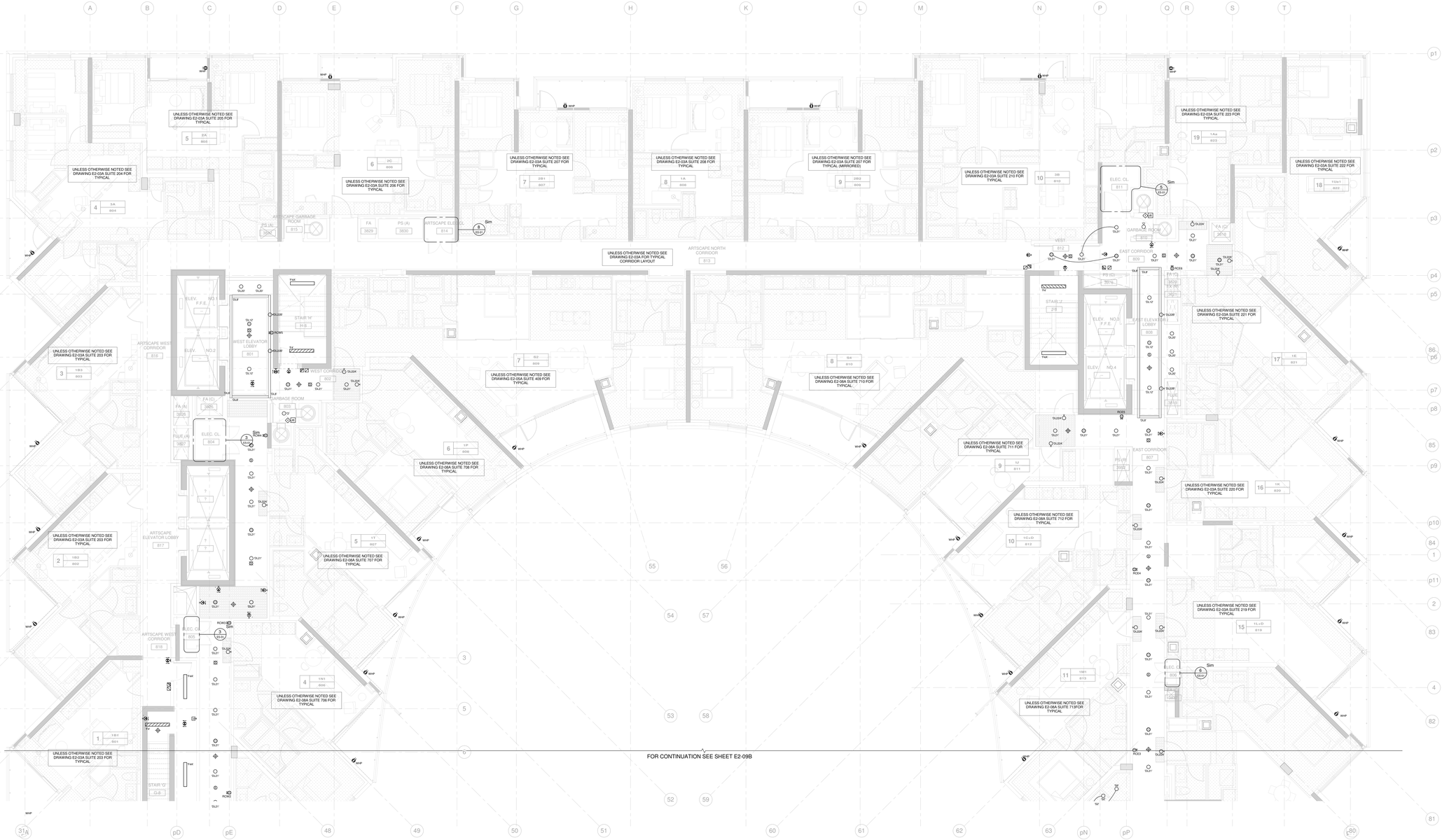

NOTES:

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3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SPIT FOR QUANTITY AND DESCRIPTION.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/16
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

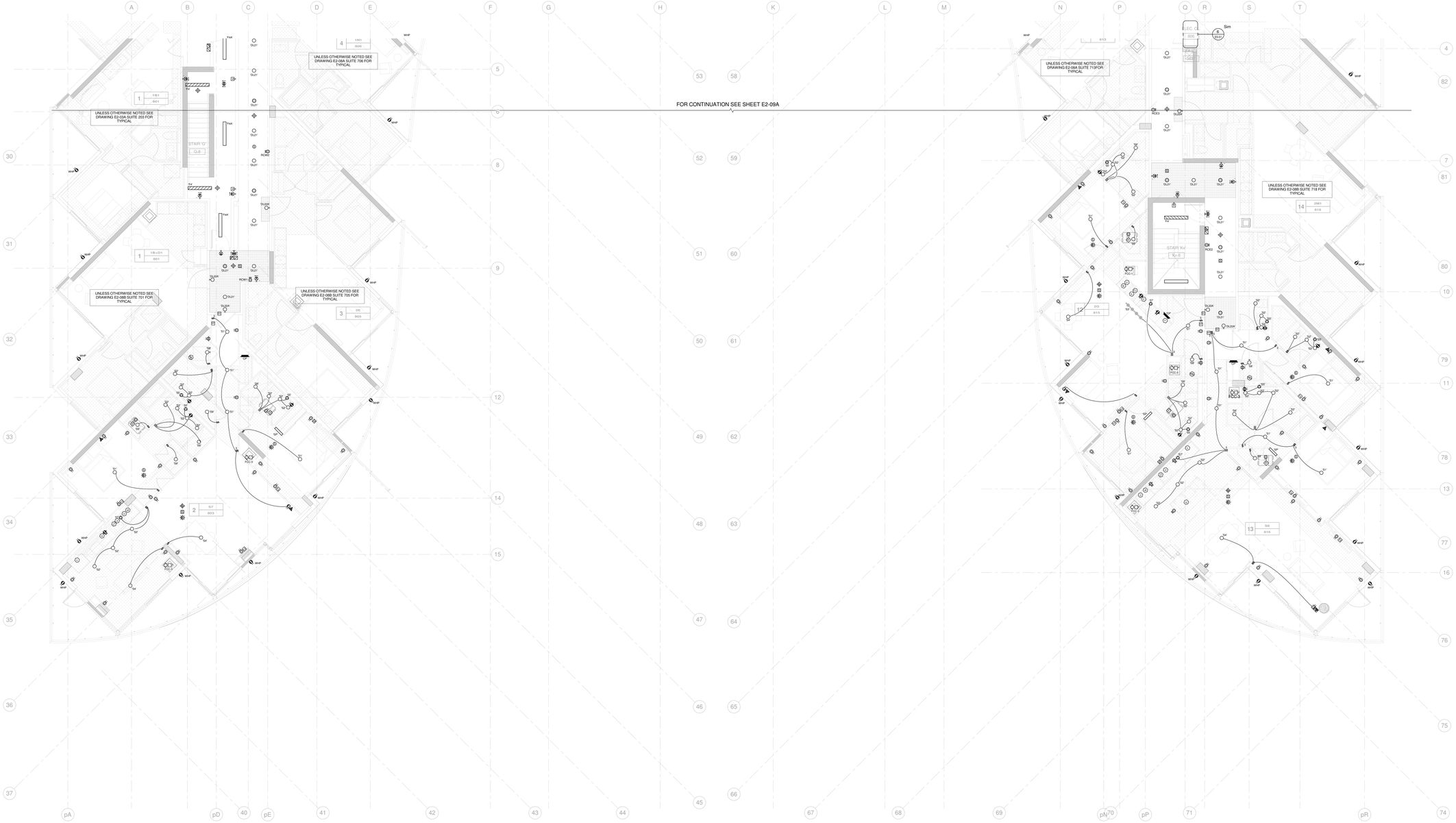
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 8 FLOOR PLAN
NORTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale: 1 : 50
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 03/09/15
Drawing No: E2-09A



NOTES:

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3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 8 FLOOR PLAN
SOUTH - ELECTRICAL

Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: 1 : 50

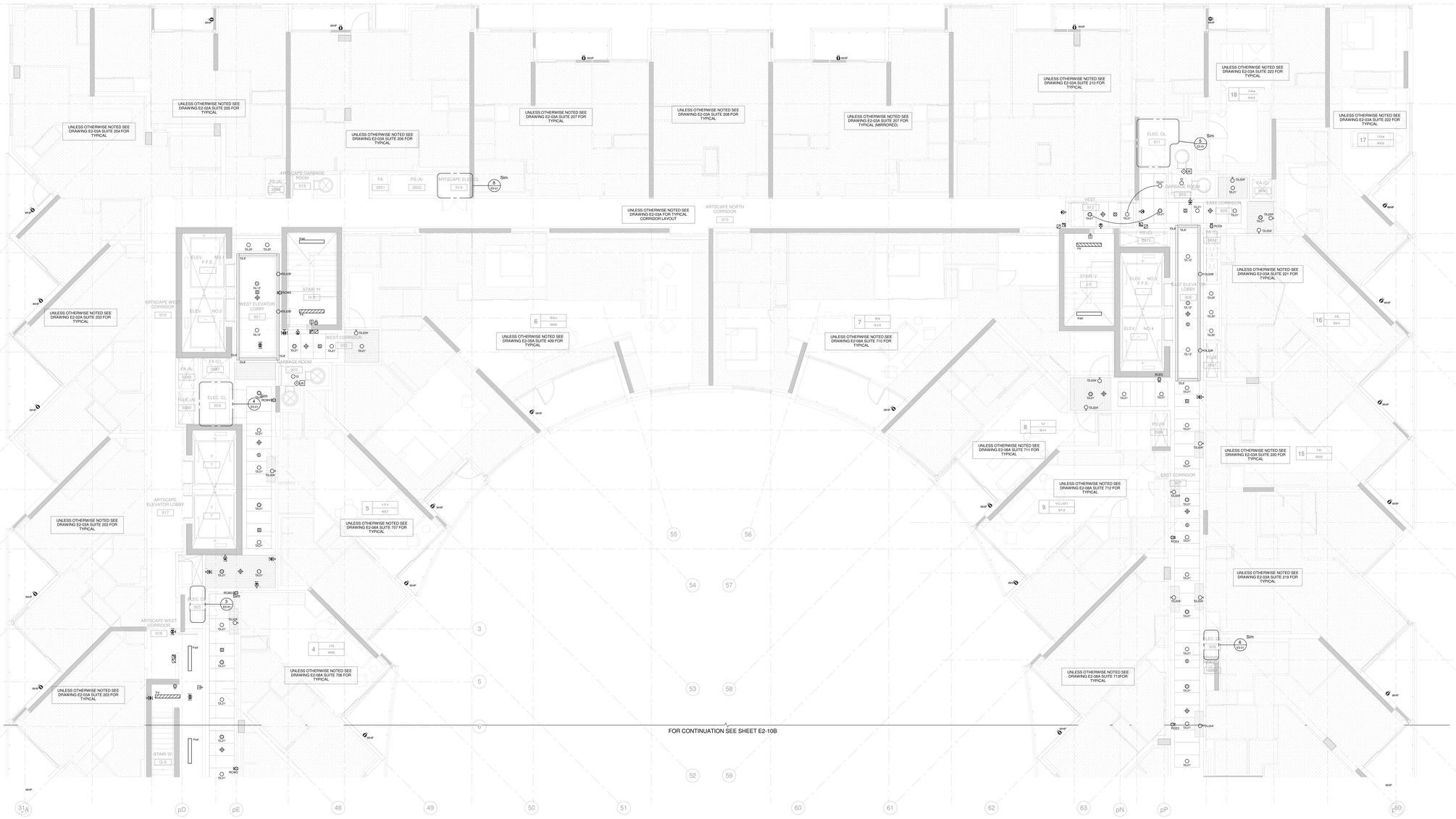
Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 03/09/15

Drawing No: E2-09B



NOTES:

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3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

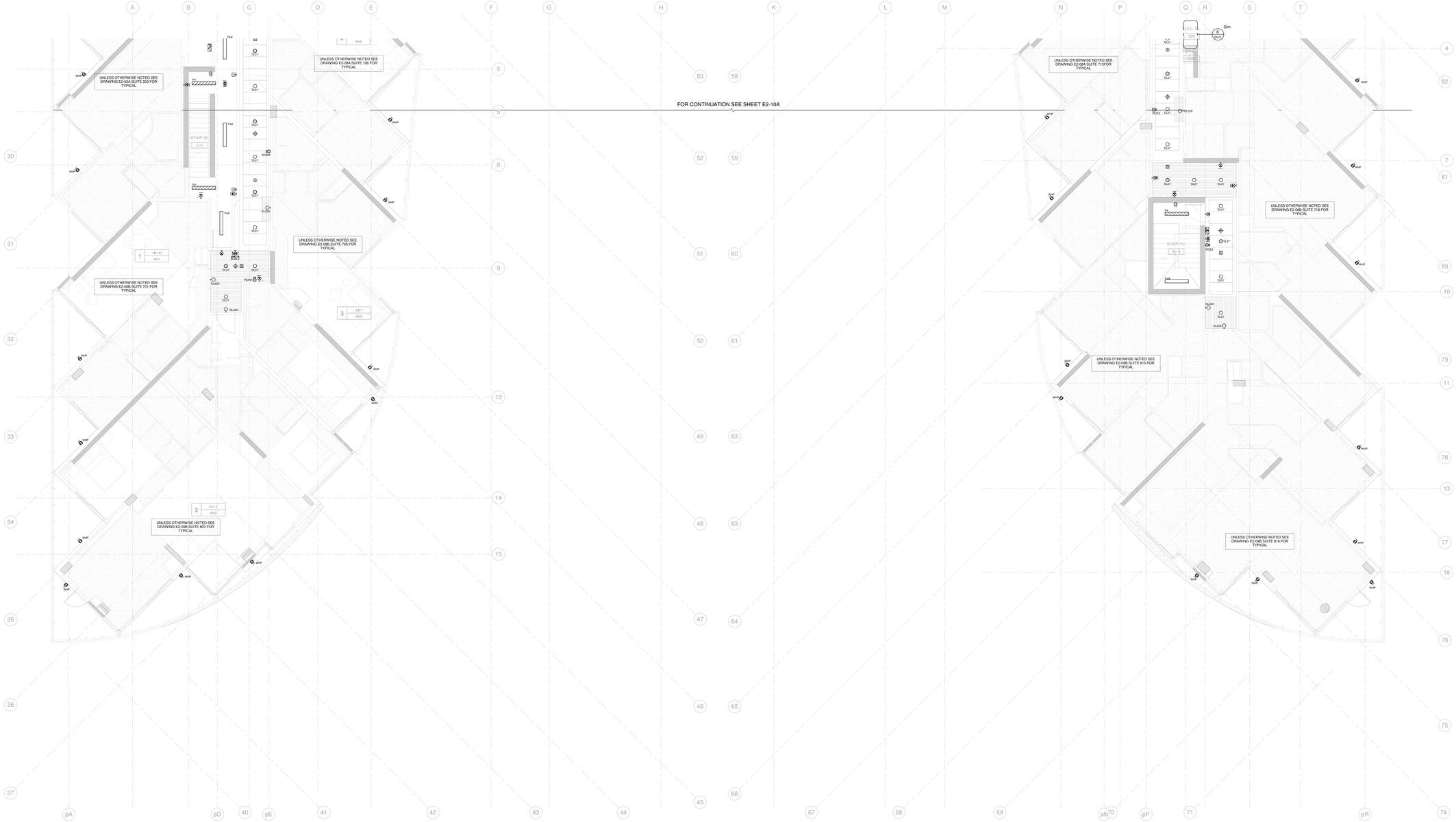
Drawing Title

LEVEL 9 FLOOR PLAN
NORTH - ELECTRICAL

Project

Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-10A



NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SF2 FOR QUANTITY AND DESCRIPTION.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 9 FLOOR PLAN
SOUTH - ELECTRICAL

Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: 1 : 50

Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 03/09/15

Drawing No: E2-10B

N

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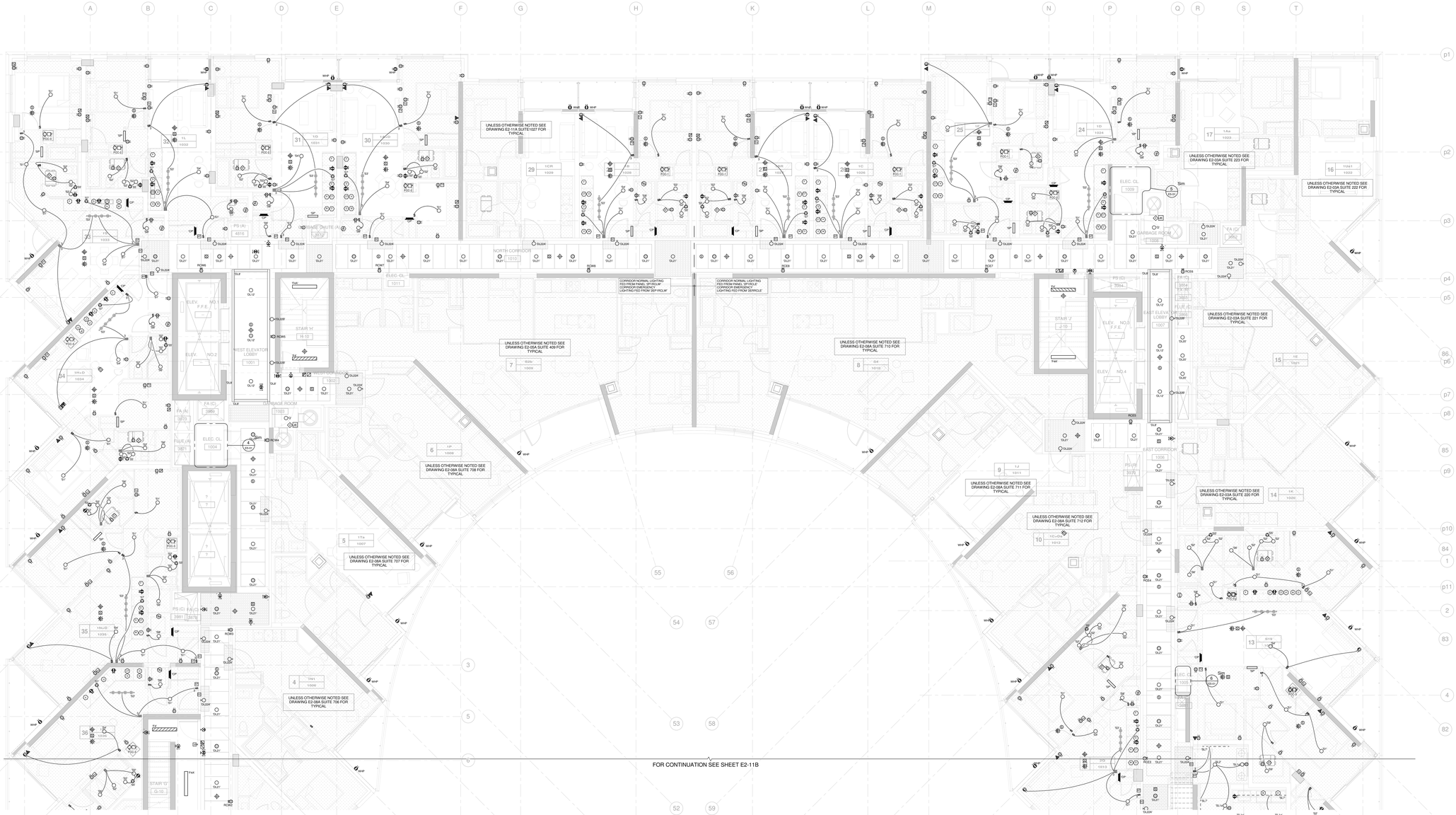

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STARS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SPIF FOR QUANTITY AND DESCRIPTION.

◇ ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/16
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

No.	Issued For	Date

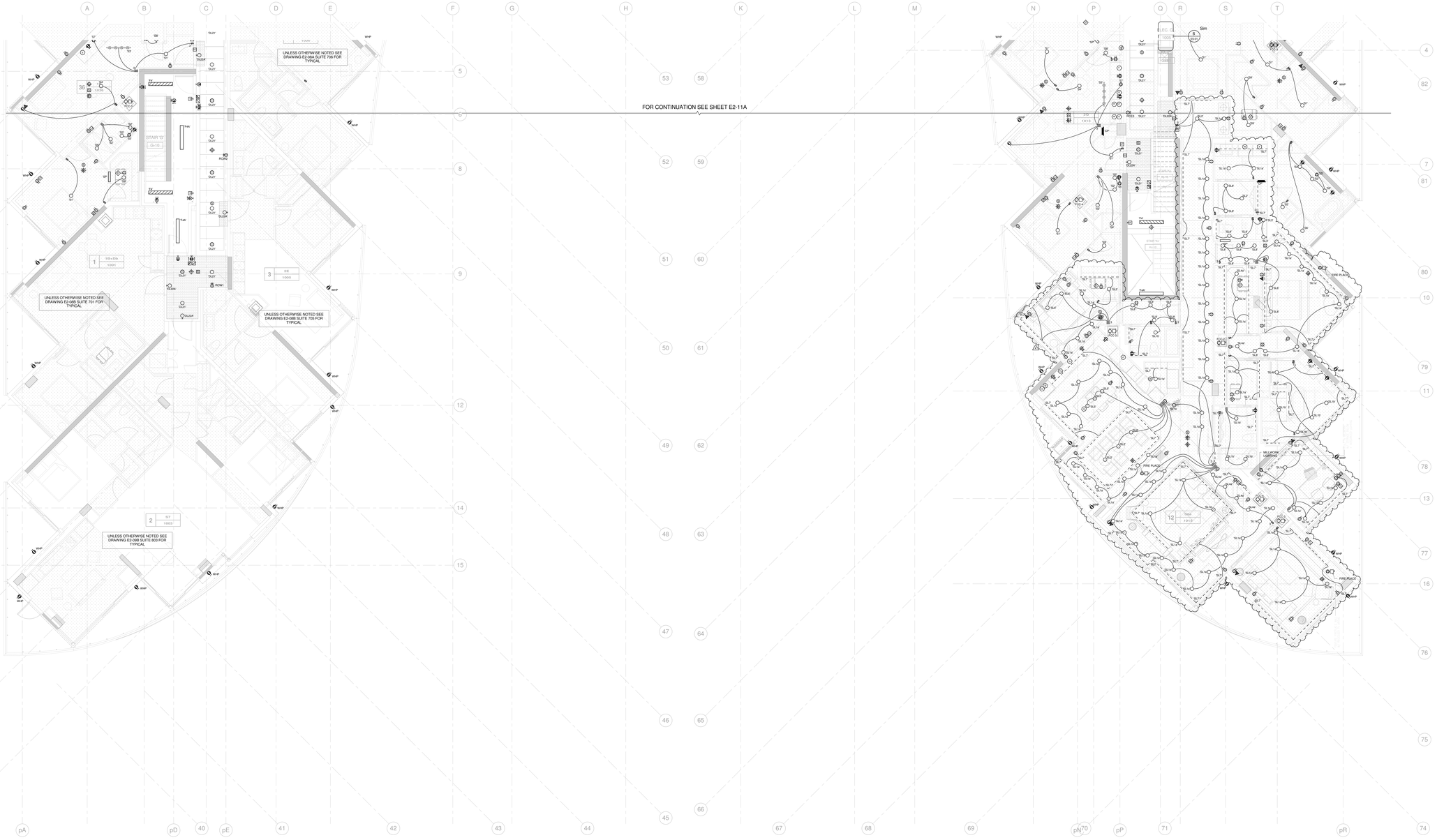
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 10 FLOOR PLAN
NORTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-11A

N



NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STARS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SPS' FOR QUANTITY AND DESCRIPTION.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/18
2	ISSUED FOR CONSTRUCTION	2016/04/21
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IFT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 10 FLOOR PLAN
SOUTH - ELECTRICAL

Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale: 1 : 50

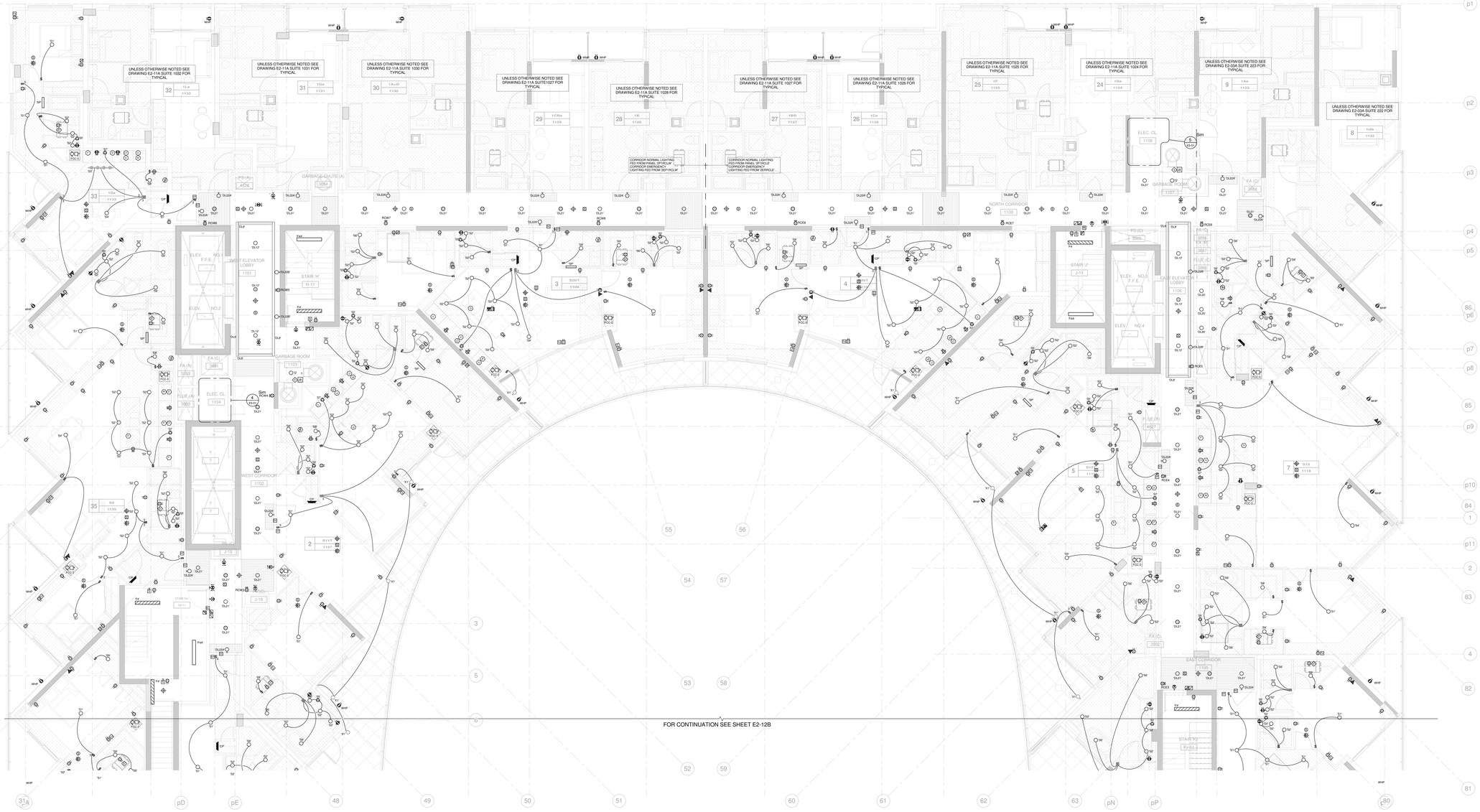
Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 03/09/15

Drawing No: E2-11B



NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SP2 FOR QUANTITY AND DESCRIPTION.

◇ ROUGH IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/18
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

No.	Issued For	Date

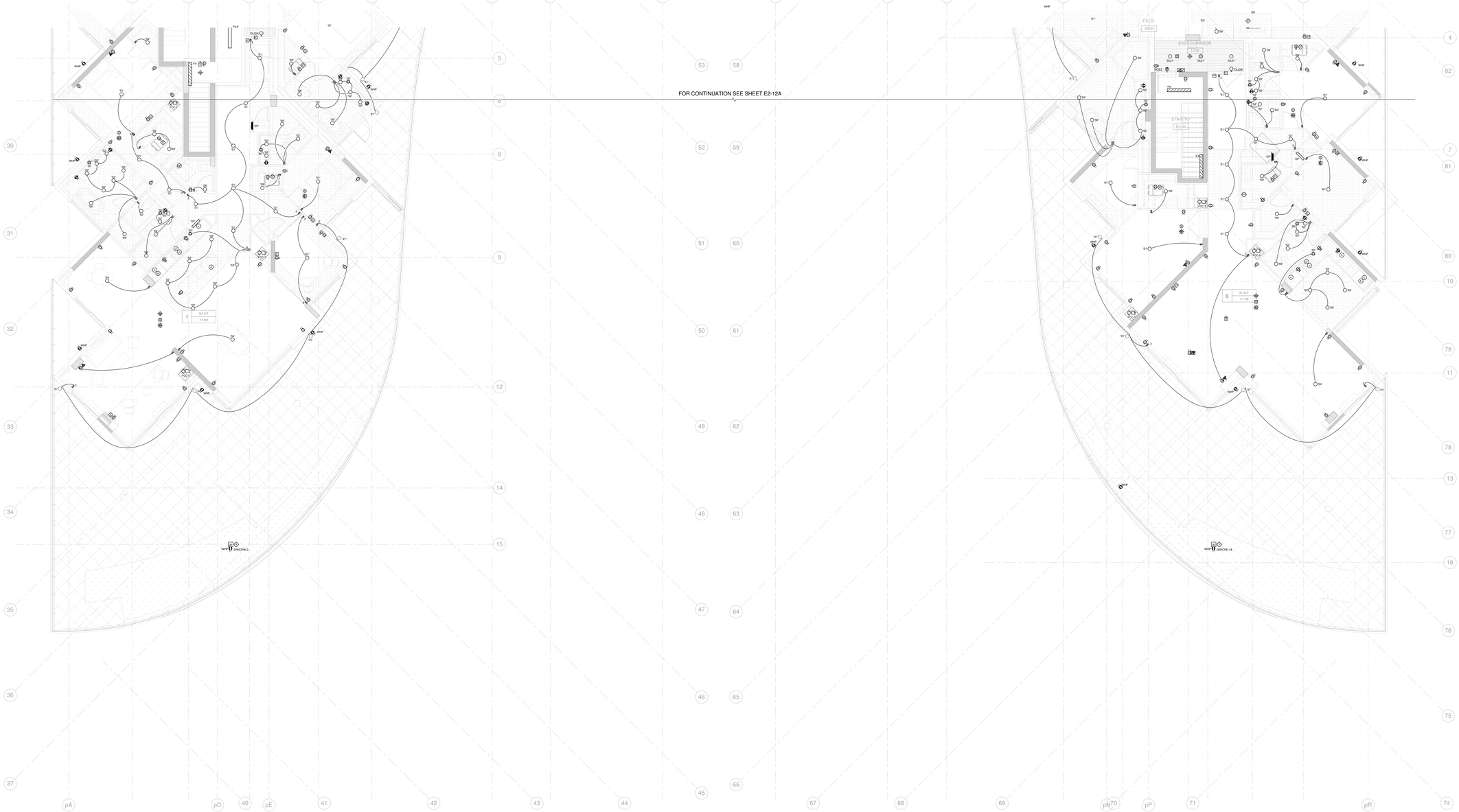
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 11 FLOOR PLAN
NORTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale 1 : 50
Drawn by Author
Checked by Checker
Project No. 8489D
Date 03/09/15
Drawing No. E2-12A

N



NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SFV' FOR QUANTITY AND DESCRIPTION.

◇ WEATHER PROOF JUNCTION BOX FOR IRRIGATION CONTROL SYSTEM. PROVIDE 1-27mmC CONDUITS TO IRRIGATION ROOM ON P2 LEVEL. EXACT LOCATION AND JUNCTION BOX SIZE TO BE COORDINATED WITH IRRIGATION SHOP DRAWING.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/16

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 11 FLOOR PLAN
SOUTH - ELECTRICAL

Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: 1 : 50

Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 03/09/15

Drawing No: E2-12B

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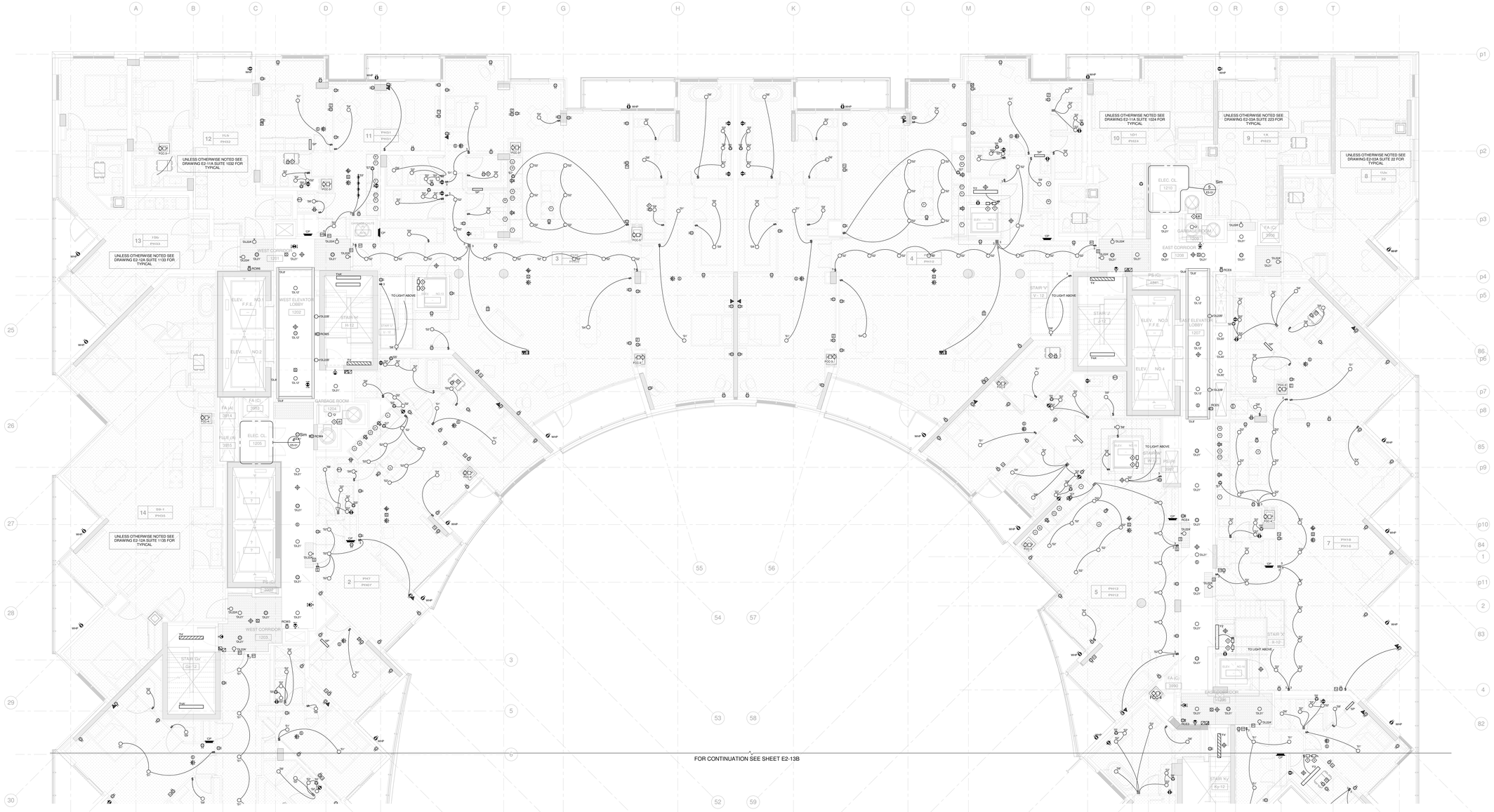

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SP7 FOR QUANTITY AND DESCRIPTION.

◇ ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).

◇ FOR ELEVATOR MOTOR DRIVER, FUSIBLE DISCONNECT SWITCH 208V/1P-30/20AF. EXACT LOCATION TO BE COORDINATED ON SITE.

◇ FOR ELEVATOR LIGHTING/POWER, FUSIBLE DISCONNECT SWITCH 120V/1P-30/15AF. EXACT LOCATION TO BE COORDINATED ON SITE.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15

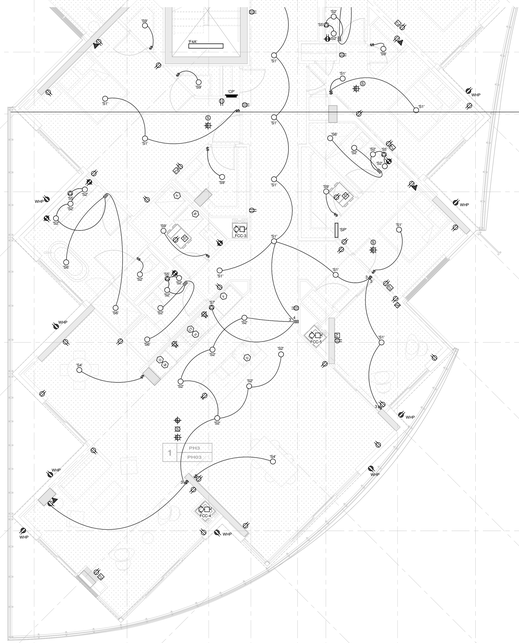
No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-9
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-1

AQUAVISTA
AT BAYSIDE TORONTO

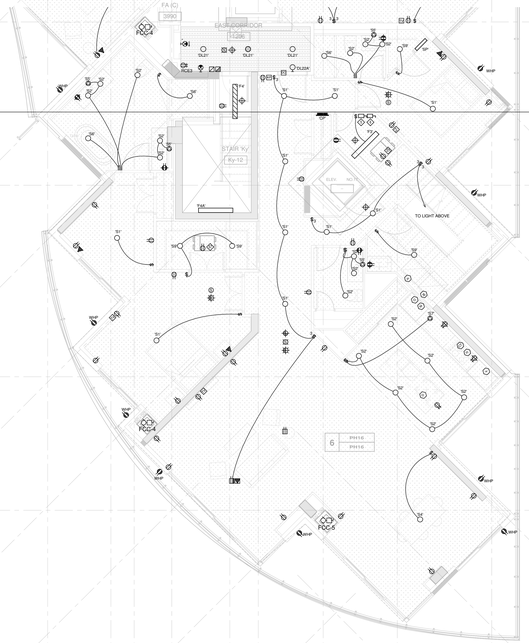
Drawing Title
LEVEL 12 FLOOR PLAN
NORTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale 1 : 50
Drawn by Author
Checked by Checker
Project No. 8489D
Date 03/09/15
Drawing No. E2-13A



FOR CONTINUATION SEE SHEET E2-13A



NOTES:

1. ALL EXIT SIGNS ARE TYPE S2 (UNLESS OTHERWISE NOTED)
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SP2 FOR QUANTITY AND DESCRIPTION.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IAT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 12 FLOOR PLAN
SOUTH - ELECTRICAL

Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4

Queen's Quay East
Toronto, ON

Scale: 1 : 50

Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 03/09/15

Drawing No: E2-13B

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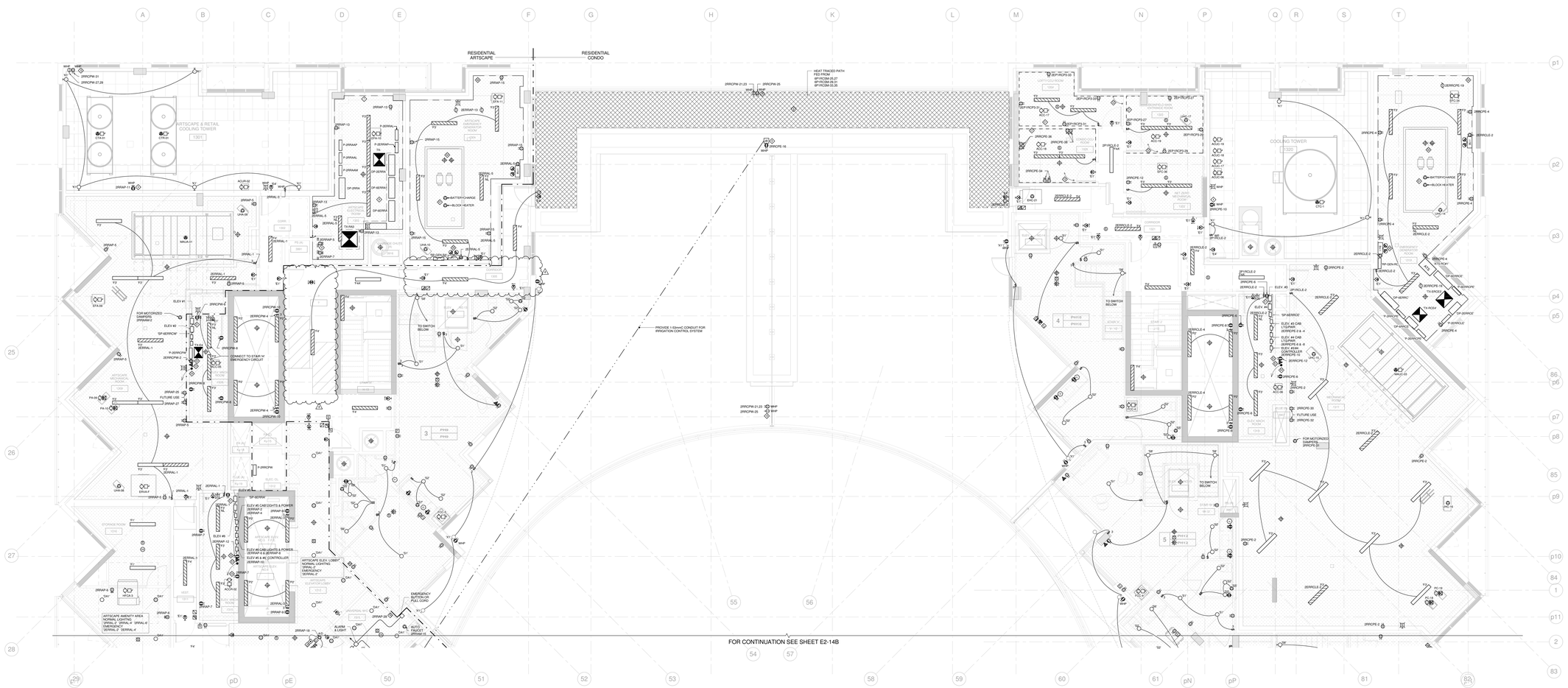

GENERATOR NOTES:

- 120V, 15A POWER CONNECTIONS FOR THE GENERATOR BATTERY & CHARGER AND 208V, 1PH FOR BLOCK HEATER. CO-ORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGHING-IN.
- SUPERVISORY CONTACTS FOR GENERATOR MONITORING POINTS.
- GROUND BUSS INTERCONNECTED WITH #3/0 AWG GROUND WIRE, MOUNT GROUND LOOP AT HIGH LEVEL. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR PANNEL, DOORS, MECHANICAL EQUIPMENT, ETC. REFER TO DRAWING E1-01-E3-XX AND SPECIFICATIONS FOR FURTHER DETAILS.
- PROVIDE 150mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
- 144W, 12V D.C. STAND-BY BATTERY AND CHARGER UNIT #BJ-1 C/W 2-12W HEADLAMPS OF QUARTZ HALOGEN TYPE.

ELEVATOR MACHINE ROOM NOTES:

- PROVIDE DISCONNECT SWITCH FOR ELEVATOR MOTOR. C/W AUXILIARY CONTACT WITH WIRING TO THE CONTROLLER. REFER TO SINGLE DIAGRAM FOR FEEDER SIZE. FUSE TO BE PROVIDE AS PER ELEVATOR SHOP.
- DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT SYSTEM FROM ELEVATOR MACHINE ROOM TO TELEPHONE BOARD. INDICATE TELEPHONE LINE TERMINATING AT THE PRIMARY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
- CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SPS' FOR QUANTITY AND DESCRIPTION.
- RECEPTACLE SHALL BE LOCATED NOT LESS THAN 150mm ABOVE THE FINISHED ROOF, AND PROTECTED FROM MECHANICAL DAMAGE.
- AREA TO BE HEAT TRACED. PROVIDE 3 ZONE OF PYROTENAX CAT #5UB13 CABLES TO PROTECT PIPES FROM FREEZING. PROVIDE AS PER DRAWING 6M0000-M-E0001-0-00 PER DRAWING 6M0000-M-E0001-0-00 PER DRAWING 6M0000-M-E0001-0-00 CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON PIPE AS PER DETAIL. PROVIDE 2-20A 1P BREAKERS IN PANELBOARD 'YYYY' CLIMALIX PROTECT SHELD, PROVIDE 20A 1P BREAKERS IN PANELBOARD 'YYYY'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
- WEATHER PROOF JUNCTION BOX FOR IRRIGATION CONTROL SYSTEM. PROVIDE 1-27mmC CONDUITS TO IRRIGATION ROOM ON P2 LEVEL. EXACT LOCATION AND JUNCTION BOX SIZE TO BE COORDINATED WITH IRRIGATION SHOP DRAWING.
- GROUND BUSS INTERCONNECTED WITH #3/0 AWG GROUND WIRE, MOUNT GROUND LOOP AT HIGH LEVEL. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR PANNEL, IRRIGATION SYSTEM, GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR PANNEL, DOORS, MECHANICAL EQUIPMENT, ETC.
- PROVIDE 150mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
- PROVIDE 1200mmW X 2440mmHX 19mmCD PLYWOOD BACKBOARD. REFER TO SECURITY RISER E4-04 FOR CONDUITS DETAIL.
- PROVIDE A 30A, 208V 1φ SURFACE MOUNTED WEATHERPROOF TWIST-LOCK TYPE RECEPTACLE FOR WINDOW WASHING. C/W STRYKA RELIEF ZY-05C3-7-N-BBEL CAT# HBL5265BW (EBIMC LB-30R). PROVIDE ALSO A 120 VOLT DUPLEX RECEPTACLE.

COMMUNICATION NOTES:

- 20mm PLYWOOD BACKBOARD 2400mm HIGH ALL ROUND ROOM.
- 1-#3/0 IN 60mm PVC TIED TO MAIN GROUNDING BAR IN MAIN ELECTRICAL ROOM.

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015-12-09
2	ISSUED FOR ADD E-002	2016-01-06
3	ISSUED FOR ADD E-003	2016-01-08
4	ISSUED FOR CONSTRUCTION	2016-04-21

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-12-18
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

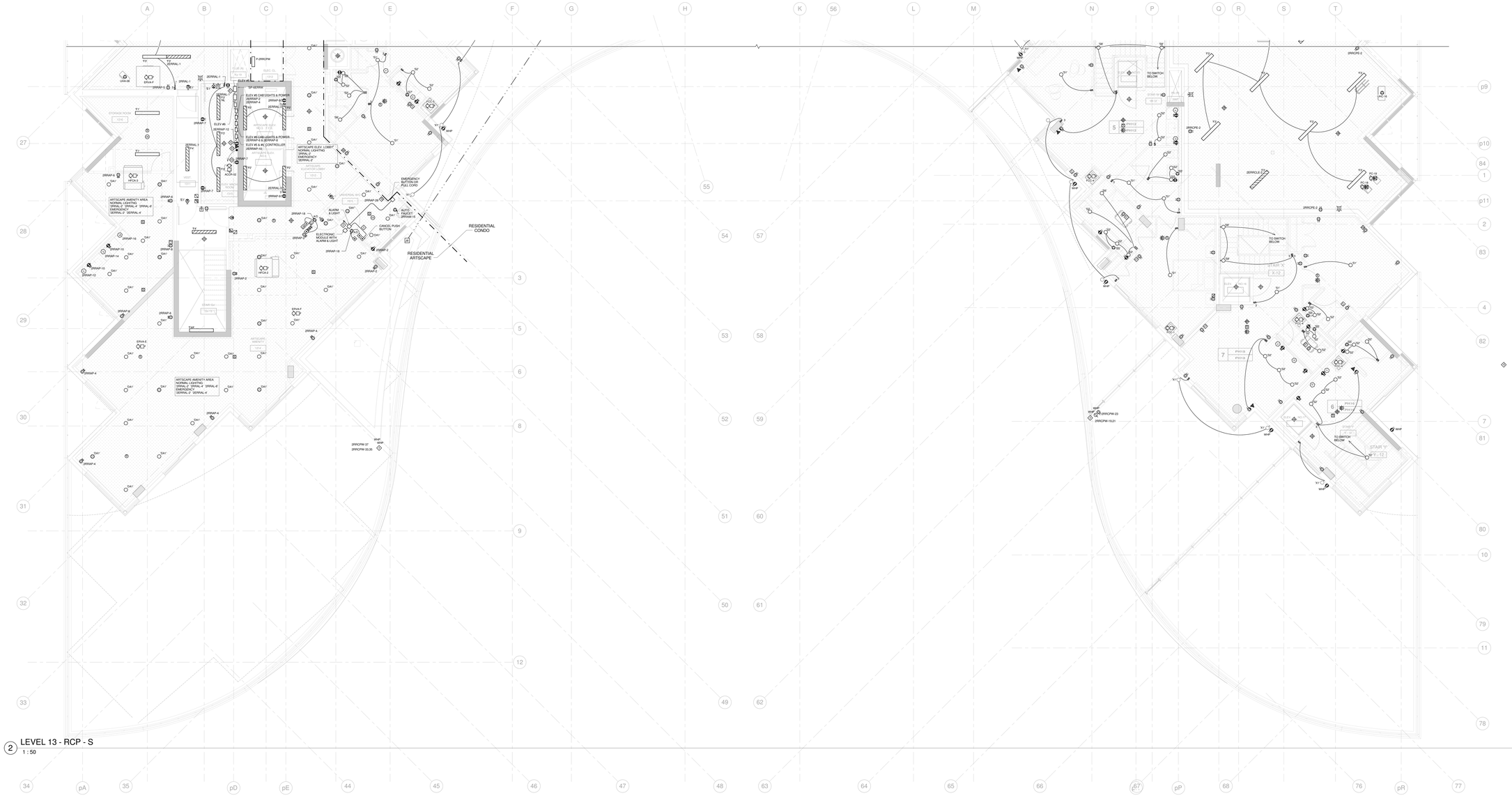
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 13 FLOOR PLAN
NORTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale 1 : 50
Drawn by Author
Checked by Checker
Project No. 8489D
Date 04/16/15
Drawing No. E2-14A

N



2 LEVEL 13 - RCP - S
1 : 50

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING SP2 FOR QUANTITY AND DESCRIPTION.
4. RECEPTACLE (EWC) (WALL SURFACE MOUNTED) STRAIGHTBLADE TYPE - LOCK TYPE. RECEPTACLE SHALL BE HUBBELL CATALOG NUMBER HBL20W (EWC) HUBBELL CAT # HBL20W (EEMAC LB-30R). PROVIDE ALSO A 120 VOLT DUPLEX RECEPTACLE.
5. PROVIDE 2-HVAC CIRCUIT C/W PULL WIRE FOR EMERGENCY CALL SYSTEM IN LANDRY ROOM.
6. RUN 25PAIR CONDUIT C/W PULL WIRE BACK TO SECURITY CONTROL PANEL AT 2RRCPW-19,21 FROM ELEVATOR LOBBY AREA FOR EMERGENCY CALL SYSTEM IN UNIVERSAL WASHROOM.

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Dauphin Kitchener Trail Saint John

No.	Revision	Date
4	ISSUED FOR ADD E-001	2015-12-08
2	ISSUED FOR ADD E-002	2016-01-06
3	ISSUED FOR ADD E-003	2016-01-06

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IMT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 13 FLOOR PLAN
SOUTH - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: 1 : 50
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 04/16/15
Drawing No: E2-14B

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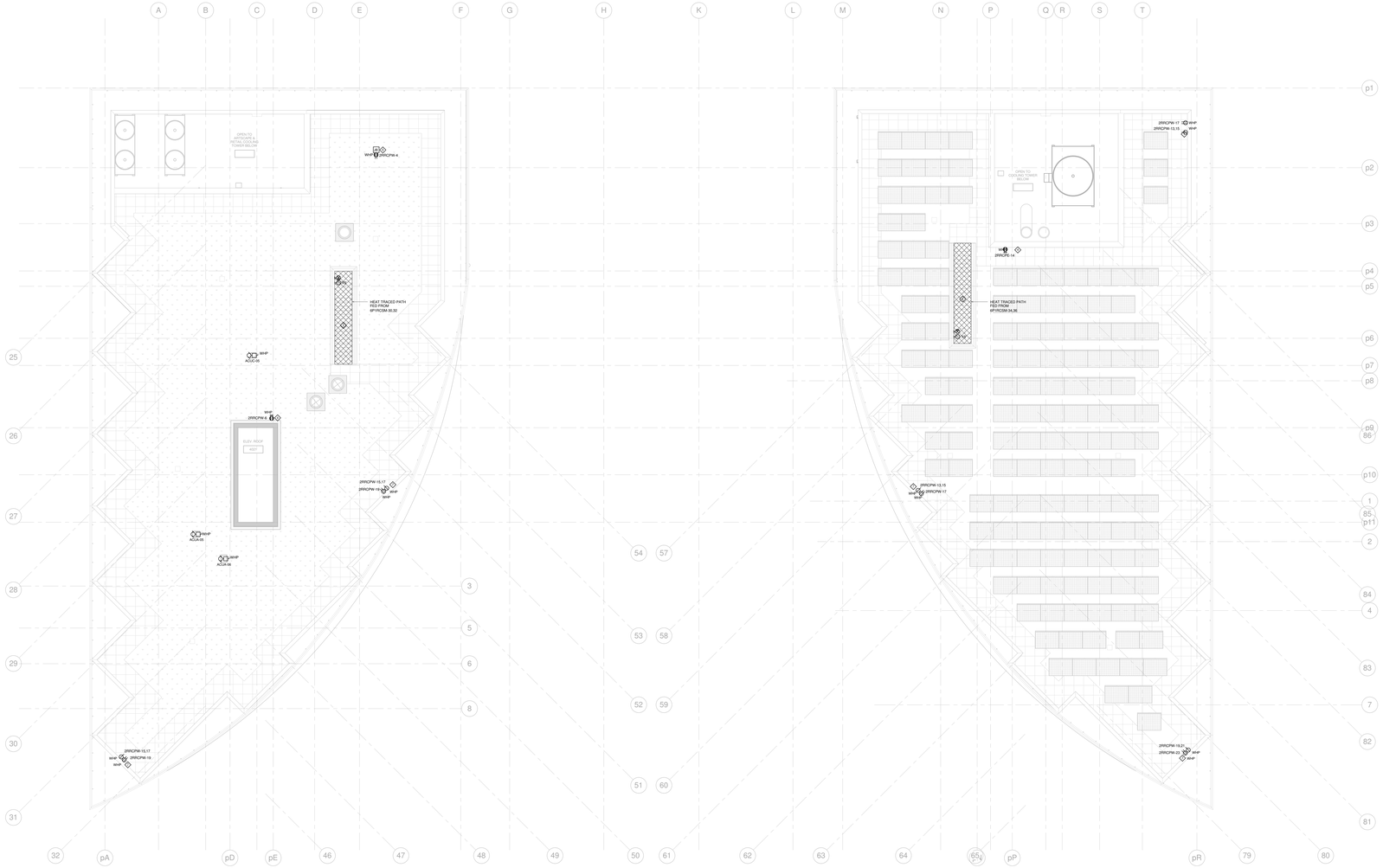

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E4' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA RECEPTACLE SHALL BE LOCATED NOT LESS THAN 150mm ABOVE THE FINISHED FLOOR AND MOUNTED ADJACENT TO LANDITY ACCESS/PITION.
4. RECEPTACLE SHALL BE LOCATED NOT LESS THAN 150mm ABOVE THE FINISHED FLOOR AND MOUNTED ADJACENT TO LANDITY ACCESS/PITION.
5. AREA TO BE HEAT TRACED. PROVIDE 1 ZONE OF PYROTENAX CAT #5JB15 CABLES CONTROLS AS PER SPECIFICATION C06 OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON WALL. PROVIDE 1-20A DP CIRCUIT FROM PANEL 'P-PYRCSM' FOR POWER SUPPLY OF HEATED SPACE. PROVIDE 1-20A DP CIRCUITS FROM PANEL 'P-PYRCSM'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
6. WEATHER PROOF JUNCTION BOX FOR IRRIGATION CONTROL SYSTEM. PROVIDE 1-27mmC CONDUITS TO IRRIGATION ROOM ON P5 LEVEL. EXACT LOCATION AND JUNCTION BOX SIZE TO BE COORDINATED WITH IRRIGATION SHOP DRAWING.
7. PROVIDE A 30A, 208V-1φ SURFACE MOUNTED WEATHERPROOF TWIST LOCK TYPE RECEPTACLE. PROVIDE 1-27mmC CONDUIT FROM PANEL 'P-PYRCSM' TO CAT# HBL2623SW (EERMC18-30P). PROVIDE ALSO A 120 VOLT DUPLEX RECEPTACLE.

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
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This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date: 09-23-15

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15

No.	Issued For	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-04-21
1	ISSUED FOR TENDER	2015-10-16

AQUAVISTA
AT BAYSIDE TORONTO

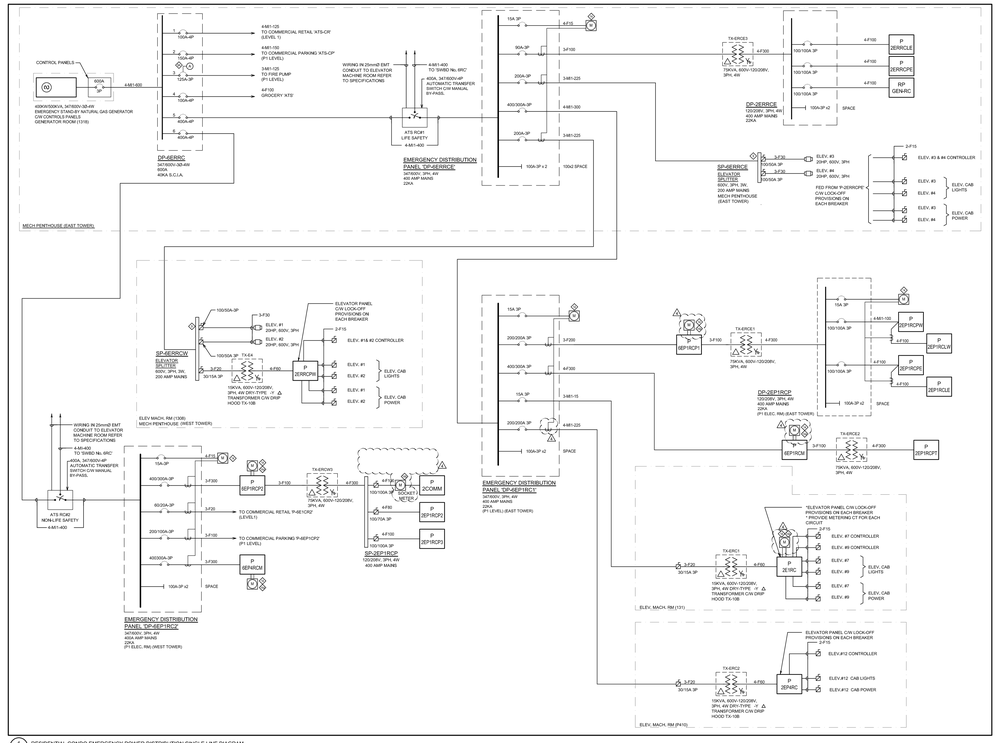
Drawing Title
LEVEL 14 FLOOR PLAN - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

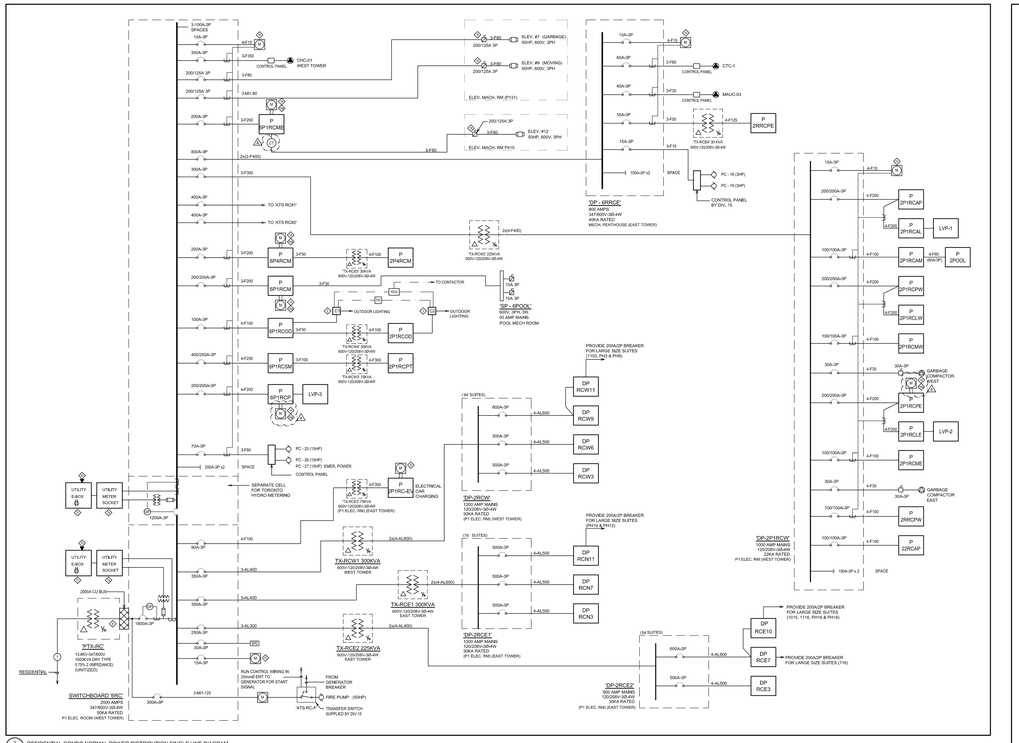
Scale 1 : 75
Drawn by Author
Checked by Checker
Project No. 8489D
Date 09/23/15

Drawing No.
E2-15

File Date: 22/09/2016 10:35:31 AM File Path: C:\Users\Lan_s\Documents\MRPC - Aquavista - 8489_Rev_2.rvt



1 RESIDENTIAL CONDO EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
SCALE: N.T.S.


3-100A/3P SPACES
CONTROL PANEL
CHI-01 WEST TOWER
TO XTS RCA1'
TO XTS RCA2'
TO CONTACTOR
OUTDOOR LIGHTING
TX-RCW1 75KVA 600V-120/208V-3Ø-4W
TX-RCW2 75KVA 600V-120/208V-3Ø-4W
TX-RCW3 75KVA 600V-120/208V-3Ø-4W
TX-RCE1 75KVA 600V-120/208V-3Ø-4W (P1 ELEC RM) (EAST TOWER)
TX-RCE2 75KVA 600V-120/208V-3Ø-4W (P1 ELEC RM) (EAST TOWER)
TX-RCE3 75KVA 600V-120/208V-3Ø-4W (P1 ELEC RM) (EAST TOWER)
TX-RCE4 75KVA 600V-120/208V-3Ø-4W (P1 ELEC RM) (EAST TOWER)
TX-RCW1 300KVA 600V-120/208V-3Ø-4W WEST TOWER
TX-RCE1 300KVA 600V-120/208V-3Ø-4W EAST TOWER
TX-RCE2 225KVA 600V-120/208V-3Ø-4W EAST TOWER
ELECTRICAL CHARGING
SEPARATE CELL FOR EACH HYDRO METERING
PC - 25 (19HP)
PC - 26 (19HP)
PC - 27 (1HP) EMER. POWER CONTROL PANEL
UTILITY E-BOX
UTILITY METER SOCKET
2000A CU BUS
P7'XJ'RC
13.8KV-347/600V 1000KVA DRY TYPE 5.75% Z (IMPEDANCE) (SHIFTED)
SWITCHBOARD 'WB/C'
2000 AMPS
347/600V-3Ø-4W
200KA SCCR
(P1 ELEC. ROOM (WEST TOWER)
RESIDENTIAL
RUN CONTROL WIRING IN 25mm2 EMT TO GENERATOR FOR START SIGNAL
FROM GENERATOR BREAKER
FIRE PUMP (50HP)
TRANSFER SWITCH SUPPLIED BY SY-75
XTS RC-2'
ELEV. #7 (GARBAGE) 50HP, 600V, 3PH
ELEV. #9 (MOVING) 50HP, 600V, 3PH
ELEV. MACH. RM (P1311)
ELEV. #12 50HP, 600V, 3PH
ELEV. MACH. RM (P410)
DP - 6ERRCE'
800 AMPS
347/600V-3Ø-4W
40KA RATED
MECH. PENTHOUSE (EAST TOWER)
CTC-1
MAUC-03
CONTROL PANEL
TX-RCE4 30 KVA 600V-120/208V-3Ø-4W
PC - 16 (5HP)
PC - 18 (5HP)
CONTROL PANEL BY DIV. 15
ISP - 5PCOL'
600V, 3PH, 4W
50 AMP MAINS
POOL MECH ROOM
PROVIDE 200A/3P BREAKER FOR LARGE SIZE SUITES (1910, PH3 & PH10)
DP-2RCW11'
1200 AMP MAINS
120/208V-3Ø-4W
300A RATED
(P1 ELEC RM) (WEST TOWER)
DP-2RCW7'
1200 AMP MAINS
120/208V-3Ø-4W
300A RATED
(P1 ELEC RM) (WEST TOWER)
DP-2RCE1'
1200 AMP MAINS
120/208V-3Ø-4W
300A RATED
(P1 ELEC RM) (EAST TOWER)
DP-2RCE2'
800 AMP MAINS
120/208V-3Ø-4W
200A RATED
(P1 ELEC RM) (EAST TOWER)
DP-2P1RCW'
1000 AMP MAINS
120/208V-3Ø-4W
(P1 ELEC. RM (WEST TOWER)
PROVIDE 200A/3P BREAKER FOR LARGE SIZE SUITES (1010, 1116, PH16 & PH18)
DP RCW11
DP RCW9
DP RCW6
DP RCW3
DP RCN11
DP RCN7
DP RCN3
DP RCE10
DP RCE7
DP RCE3
2P1RCAF
2P1RCAL
2P1RCAM
2P1RCPV
2P1RCLW
2P1RCMM
2P1RCPE
2P1RCLE
2P1RCME
2P1RCPM
2P1RCAP
LVP-1
LVP-2
GARBAGE COMPACTOR EAST
GARBAGE COMPACTOR WEST
2P1RCPF
2P1RCLF
2P1RCMF
2P1RCPW
2P1RCAW
2P1RCLN
2P1RCMN
2P1RCPE
2P1RCLE
2P1RCME
2P1RCPM
2P1RCAP
2P1RCP
2P1RCL
2P1RCM
2P1RCPP
2P1RCLP
2P1RCMP
2P1RCPR
2P1RCLR
2P1RCMR
2P1RCPS
2P1RCLS
2P1RCMS
2P1RCPT
2P1RCLT
2P1RCMT
2P1RCPU
2P1RCLU
2P1RCMU
2P1RCPV
2P1RCLV
2P1RCMV
2P1RCPW
2P1RCLW
2P1RCMW
2P1RCPX
2P1RCLX
2P1RCMX
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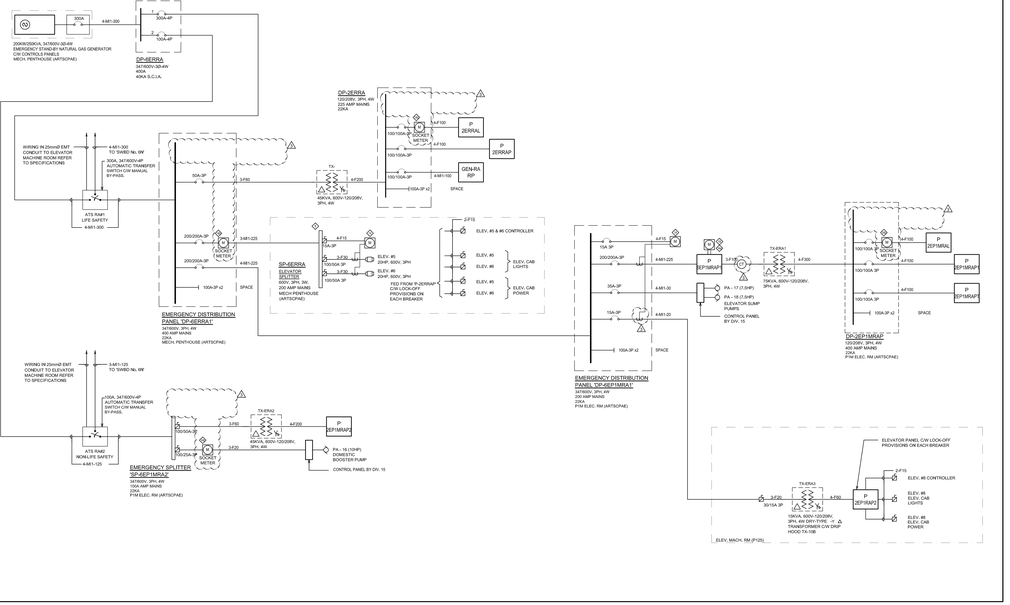
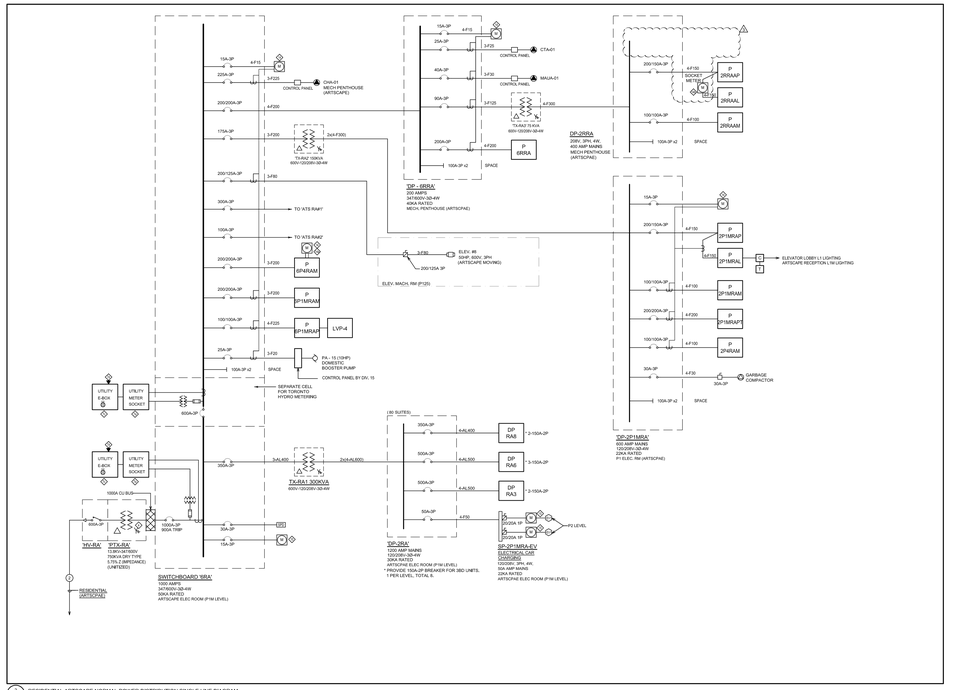
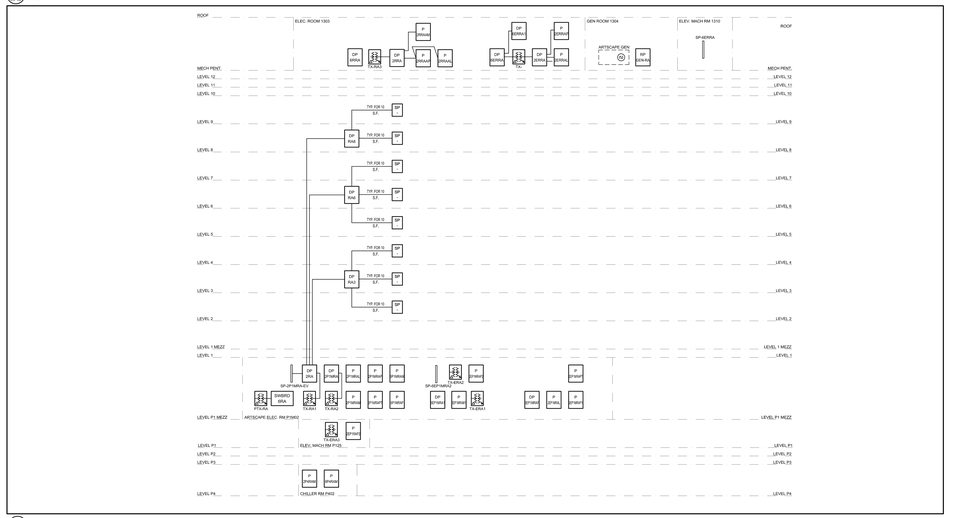


1 RESIDENTIAL ARTSCPAE EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
SCALE: N.T.S.



2 RESIDENTIAL ARTSCAPE NORMAL POWER DISTRIBUTION SINGLE LINE DIAGRAM
SCALE: N.T.S.



3 RESIDENTIAL ARTSCAPE POWER DISTRIBUTION RISER DIAGRAM
SCALE: N.T.S.

600V, 2 HOUR FIRE RATED MI CABLE SCHEDULE

AS MANUFACTURED BY PYROTENAX

	MAX BREAKER RATE	REF	AMP	SIZE	MAX BREAKER RATE	REF	AMP	SIZE
SINGLE CONDUCTOR / PRE-FIX + NO. OF CONDUCTORS	15	M1/15	15	14/2	15	M3/15	15	14/3
	20	M1/20	20	12/2	20	M3/20	20	12/3
	30	M1/30	30	10/2	30	M3/30	30	10/3
	70	M1/70	70	8/2	50	M3/50	50	8/3
	85	M1/85	85	6/2	60	M3/60	65	6/3
	125	M1/125	125	4/2	80	M3/80	85	4/3
	175	M1/175	175	2/2	100	M3/100	100	3/3
	195	M1/195	195	1/2	THREE CONDUCTORS			
	225	M1/225	230	1/0				
	250	M1/250	240	2/0				
	300	M1/300	310	3/0				
	350	M1/350	350	4/0				
	400	M1/400	400	250				
	500	M1/500	505	350				
	600	M1/600	620	500				
TWO CONDUCTORS / PRE-FIX + NO. OF CONDUCTORS	15	M2/15	15	14/2	15	MA/15	15	14/4
	20	M2/20	20	12/2	20	MA/20	20	12/4
	30	M2/30	30	10/2	30	MA/30	30	10/4
	50	M2/50	50	8/2	50	MA/50	50	8/4
	60	M2/60	65	6/2	60	MA/60	65	6/4
	80	M2/80	85	4/2	FOUR CONDUCTORS			
	100	M2/100	100	3/2				
	110	M2/115	115	2/2				
	125	M2/125	130	1/2				

NOTE:
1. RATING IS BASED ON 3 CONDUCTORS SUPPLYING CURRENT TO THE LOAD (THEIR CONDUCTOR USED AS NEUTRAL OR FOR CONTROL SIGNAL). DERATING FACTORS SHALL APPLY IF 4TH CONDUCTOR IS USED AS CURRENT CARRYING CONDUCTORS.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - NUAL

	MAX BREAKER RATE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP @40°C	CONDUIT SIZE 4C	CONDUIT SIZE 3C	CONDUIT SIZE 2C	BONDING CONDUCTOR
PRE-FIX + NO. OF CONDUCTORS	90	AL/90	#2	90	-	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
	100	AL/100R	#2	90	-	-	35 (1 1/4")	-	#6
	100	AL/100	#1	100	92	53 (2")	41 (1 1/2")	35 (1 1/4")	#4
	125	AL/125	#1/0	125	115	53 (2")	53 (2")	-	#4
	150	AL/150	#2/0	150	138	63 (2 1/2")	53 (2")	-	#2
	200	AL/200R	#4/0	195	-	-	63 (2")	-	#2
	200	AL/200	250MCM	205	184	78 (3")	63 (2 1/2")	-	#2
	225	AL/225	300MCM	230	208	78 (3")	78 (3")	-	#2
	250	AL/250	350MCM	255	229	78 (3")	78 (3")	-	#2
	300	AL/300	2 RUNS OF 500MCM MC RACK	310	280	-	-	-	#1
	400	AL/400	2 RUNS OF 500MCM MC RACK	410	360	-	-	-	#2
	500	AL/500	2 RUNS OF 500MCM MC RACK	505	448	-	-	-	#2
	600	AL/600	2 RUNS OF 500MCM MC RACK	625	560	-	-	-	#1
	800	AL/800	3 RUNS OF 500MCM MC RACK	810	732	-	-	-	#2

NOTE:
1. ALL CABLE SHALL BE NUAL 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 350A.
5. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #1/0.
6. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER OESC OR IEEE 835.
7. FEEDER TYPE AL100R AND AL200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRALS. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.
10. MC DENOTES MULTI CONDUCTOR.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - COPPER

	MAX BREAKER RATE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP @40°C	CONDUIT SIZE 4C	CONDUIT SIZE 3C	CONDUIT SIZE 2C	BONDING CONDUCTOR
PRE-FIX + NO. OF CONDUCTORS	70	F/15	#12	20	18	21 (3/4")	21 (3/4")	21 (3/4")	#12
	80	F/20	#10	30	27	21 (3/4")	21 (3/4")	21 (3/4")	#10
	90	F/30	#10	35	32	27 (1")	21 (3/4")	21 (3/4")	#10
	100	F/35	#8	50	45	27 (1")	27 (1")	21 (3/4")	#10
	80	F/50	#6	65	60	35 (1 1/4")	35 (1 1/4")	27 (1")	#8
	100	F/60	#6	75	69	35 (1 1/4")	35 (1 1/4")	35 (1 1/4")	#8
	100	F/65	#6	100	92	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#8
	125	F/125	#2	115	-	-	41 (2")	-	#6
	150	F/125	#1	130	119	53 (2")	41 (2")	-	#6
	150	F/150	#1/0	150	138	53 (2")	53 (2")	-	#6
	200	F/200	#2/0	175	-	-	53 (2")	-	#4
	200	F/200	#3/0	200	184	78 (3")	63 (2 1/2")	-	#4
	225	F/225	#4/0	230	208	78 (3")	63 (2 1/2")	-	#4
	250	F/250	250MCM	255	232	78 (3")	78 (3")	-	#4
	300	F/300	350MCM	310	280	103 (4")	91 (3 1/2")	-	#2
	350	F/400	500MCM	380	343	103 (4")	103 (4")	-	#2
	400	F/400	600MCM	425	380	103 (4")	103 (4")	-	#2

NOTE:
1. ALL CABLE SHALL BE 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 400A.
5. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #1/0.
6. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER OESC OR IEEE 835.
7. FEEDER TYPE F/125 AND F/200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRALS. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.

NOTES:

1. TO BE CONFIRMED WITH TORONTO HYDRO.
2. N/A
3. PROVIDE FRAME BLOCK OUTLINE AND SINGLE LINE DIAGRAM AS PER OESC 36-006 AND MOUNT IN EACH ELECTRICAL ROOM.
4. SECONDARY NEUTRAL 'X0' SHALL BE GROUNDED TO THE SUBSTATION ELECTRODE WITH A 35 AWG COPPER CONDUCTOR.
5. SECONDARY NEUTRAL 'X0' OF TRANSFORMERS SHALL BE GROUNDED TO THE SUBSTATION ELECTRODE WITH A COPPER CONDUCTOR SIZED AS PER TABLE 17 OF OESC.
6. THE LOW VOLTAGE NEUTRAL 'X0' OF THE TRANSFORMERS SHALL BE BONDED TO THE TRANSFORMER ENCLOSURE/GROUND BUS WITH A COPPER CONDUCTOR SIZED AS PER TABLE 16 OF THE OESC.
7. PROVIDE AND INSTALL THE FOLLOWING FOR METERING SOCKET AND E-BOX:
   7a) METER SOCKET: MUST BE TRANSFORMER RATED, NO AUTOMATIC BYPASS, PROVISION FOR A 10 POLE TEST PANEL, LOCKABLE COVER, TO BE GROUND EXTERNALLY BY A #6Cu GROUND, 1.5m (5'-0") TO CENTER OF OPENING.
   7b) METER CONDUIT: 41mm (1 1/2") CONDUIT, NO U'S PERMITTED UNLESS APPROVED BY DISTRICT METERING CREW LEADER. CONTINUOUS FROM METER INSTRUMENT COMPARTMENT TO METER SOCKET. MAXIMUM OF THREE 90 DEGREE BENDS. MAXIMUM CONDUIT LENGTH IS 30m (100ft).
   7c) E-BOX: A 300X300X150mm (12"X12"X6") E-BOX IS TO BE MOUNTED DIRECTLY ADJACENT (50mm [2"]) TO THE METER SOCKET. THE E-BOX WILL BE CONNECT TO THE SOCKET WITH A 16mm(1/2") CONDUIT. A 120V DUPLEX RECEPTACLE WILL BE LOCATED IN THIS BOX. IF POSSIBLE THE 120V SUPPLY SHOULD COME FROM A UPS. THE E-BOX MUST BE LOCKABLE.
   7d) PHONE CONDUIT: 16mm (1/2") CONDUIT, BUSHINGS AT BOTH ENDS, WITH PULL STRING, MUST EXTEND FROM JUST ADJACENT TO METER SOCKET TO WHERE THE PHONE TRUNK LINES WILL BE TERMINATED IN THE MAIN PHONE ROOM.
8. COPPER CABLE WITH EQUIVALENT CURRENT RATING WITH FIRE RATED ENCLOSURE OR BURIED IN CONCRETE AS PER OBC ARE ALLOWED TO USE IN LIEU OF MICC CABLE.
9. IN THE EMERGENCY CONDITION, ONE ELEVATOR SHALL WORK AT A TIME ALONG WITH FIRE FIGHTER'S ELEVATOR.
10. N/A
11. N/A
12. N/A
13. N/A
14. METERING EQUIPMENT (MCI) METERING CABINET (FOR LEED PROGRESS SUPPLIED BY PROVIDENT, INSTALLED BY ELECTRICAL CONTRACTOR.
15. REFER TO DRAWING E3-02-METER SCHEDULES FOR QUANTITY OF CT.
16. METERING EQUIPMENT (3x20 SOCKET METER) FOR LEED PROGRESS SUPPLIED BY PROVIDENT, INSTALLED BY ELECTRICAL CONTRACTOR.
17. METERING EQUIPMENT (3x20 SOCKET METER) FOR LEED PROGRESS SUPPLIED BY PROVIDENT, INSTALLED BY ELECTRICAL CONTRACTOR.
18. HYDRO METERS SUPPLIED BY TORONTO HYDRO, INSTALLED BY ELECTRICAL CONTRACTOR.

ELECTRICAL PANEL AND CIRCUIT DESIGNATION

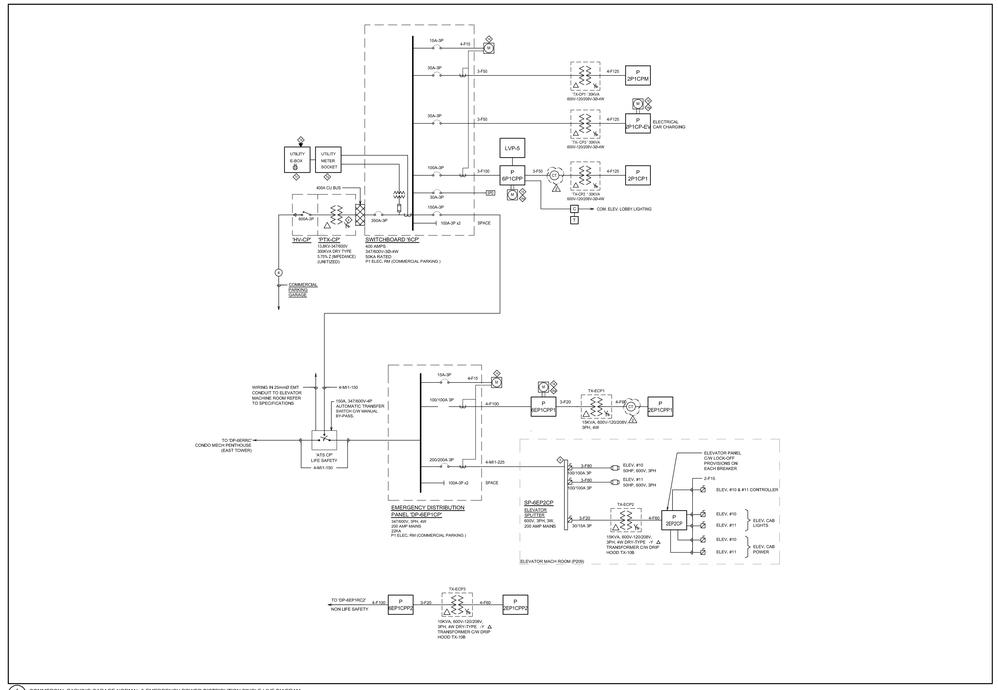
1. 3P-P1EP1-1 — 3' - DENOTES CIRCUIT NUMBER
   W' - DENOTES WEST TOWER OR EAST TOWER
   P1' - DENOTES PANEL LOCATION OF DISTRIBUTING PANEL
   R' - DENOTES RESIDENTIAL CONDO
   P1' - DENOTES LOCATION OF PANEL (P1 LEVEL)
   E' - DENOTES EMERGENCY PANEL
   2' - DENOTES 120/208V OR
   5' - DENOTES 347/600V

2. ADDITIONAL DESIGNATIONS:
   LAST LETTER 'P' OF THE PANEL DESIGNATION CAN BE REPLACED WITH THE FOLLOWING LETTERS FOR DIFFERENT TYPE OF PANELS:
   OD - OUTDOOR LIGHTING
   AL - AMENITY LIGHTING
   AP - AMENITY POWER
   AM - AMENITY MECHANICAL POWER
   PT - PIPE TRACING
   SM - SNOW MELTING
   M - MECHANICAL POWER

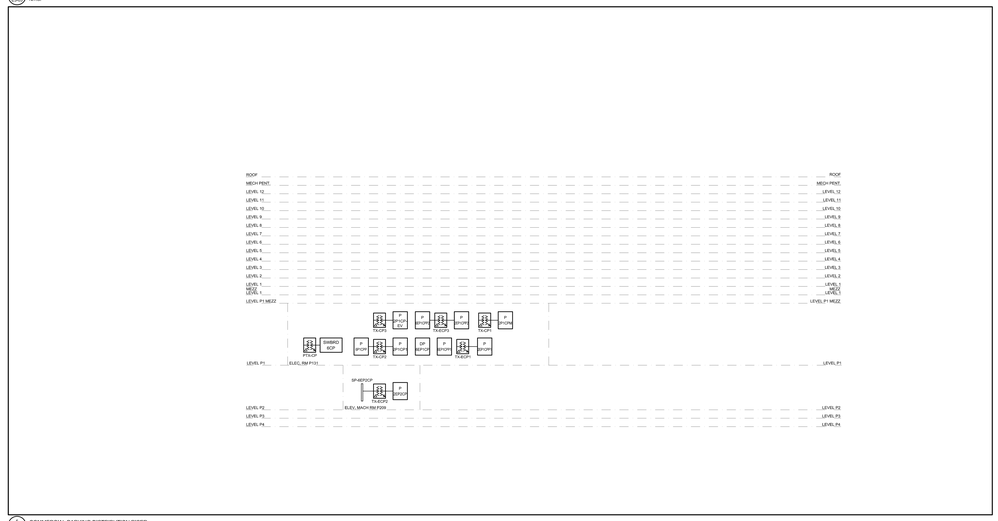
   'RC2' OF THE PANEL DESIGNATION CAN BE REPLACED WITH THE FOLLOWING DESIGNATIONS:
   CP - COMMERCIAL PARKING GARAGE
   CR - COMMERCIAL RETAIL
   RA - RESIDENTIAL ARTSCAPE

3. IF THERE ARE MORE THAN ONE PANEL ON SAME FLOOR WITH SAME ARTSCAPE/AQUAVISTA DESIGNATION DESIGNATION, 1, 2, 3, 5,(EAST), W(WEST),ETC. AFTER THE LAST LETTER OF THE PANEL DESIGNATION.

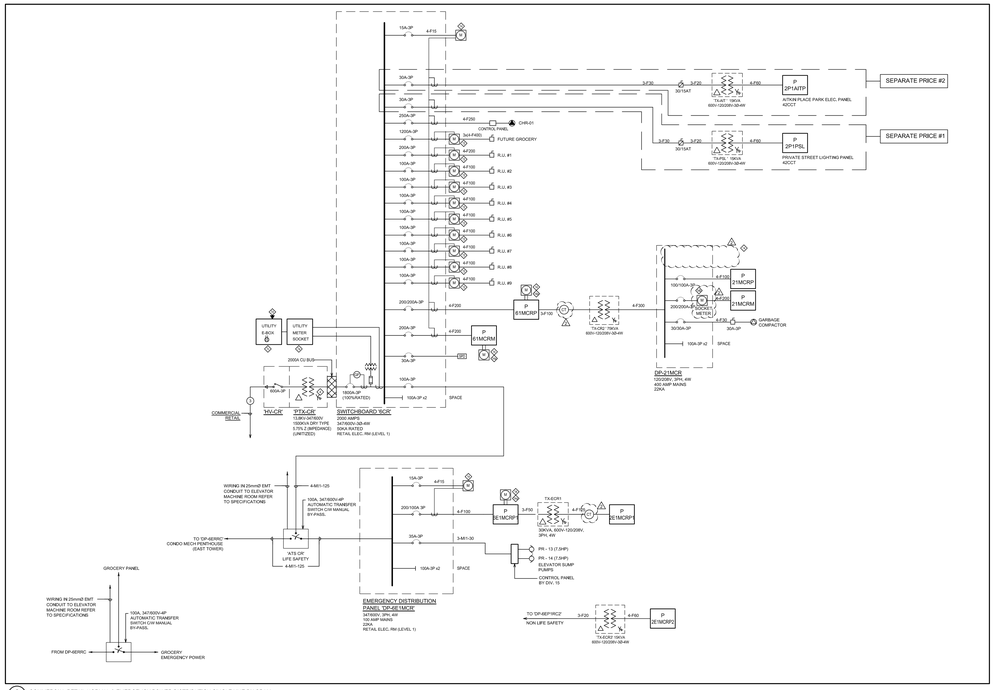
1 FEEDER SCH



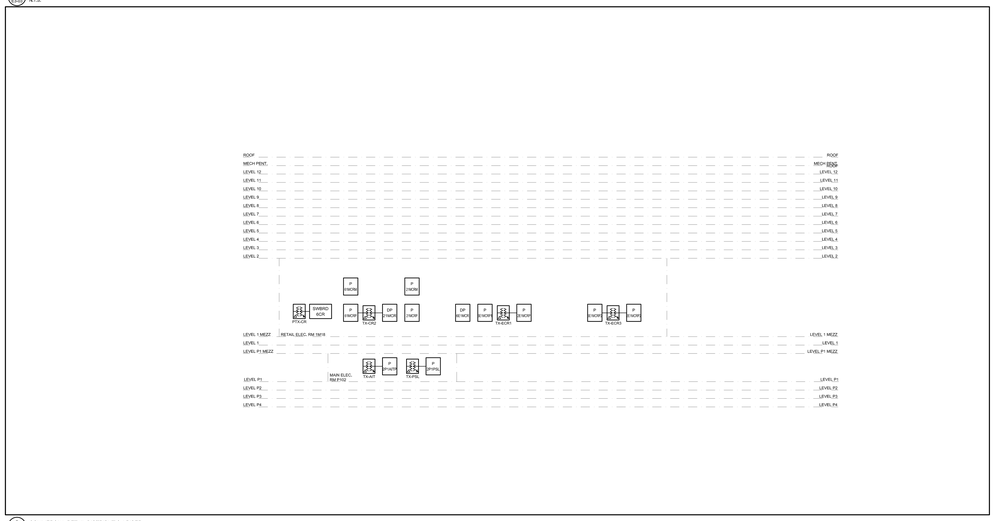
1 COMMERCIAL PARKING GARAGE NORMAL & EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
E3-02 N.T.S.



2 COMMERCIAL PARKING DISTRIBUTION RISER
E3-02 N.T.S.



1 COMMERCIAL RETAIL NORMAL & EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
E3-02 N.T.S.



2 COMMERCIAL RETAIL DISTRIBUTION RISER
E3-02 SCALE: 1:50

600V, 2 HOUR FIRE RATED MI CABLE SCHEDULE

AS MANUFACTURED BY PYROTENAX

	MAX BREAKER AMPS	REF	AMP	SIZE	MAX BREAKER AMPS	REF	AMP	SIZE
SINGLE CONDUCTOR	15	MI1x15	15	14	15	MI3x15	15	14/3
	20	MI1x20	20	12	20	MI3x20	20	12/3
	30	MI1x30	30	10	30	MI3x30	30	10/3
	70	MI1x70	70	8	50	MI3x50	50	8/3
	85	MI1x85	85	6	60	MI3x60	65	6/3
	125	MI1x125	125	4	80	MI3x80	85	4/3
	150	MI1x150	150	3	100	MI3x100	100	3/3
	175	MI1x175	175	1				
	225	MI1x225	230	1/0				
	250	MI1x250	260	2/0				
	300	MI1x300	310	3/0				
	350	MI1x350	360	4/0				
	400	MI1x400	405	250				
	500	MI1x500	505	350				
	600	MI1x600	620	500				
TWO CONDUCTORS	15	MI2x15	15	14/2	15	MI4x15	15	14/4
	20	MI2x20	20	12/2	20	MI4x20	20	12/4
	30	MI2x30	30	10/2	30	MI4x30	30	10/4
	50	MI2x50	50	8/2	50	MI4x50	50	8/4
	60	MI2x60	65	6/2	60	MI4x60	65	6/4
	80	MI2x80	85	4/2				
	100	MI2x100	100	3/2				
	110	MI2x110	115	2/2				
	125	MI2x125	135	1/2				
FOUR CONDUCTORS								

NOTE:
1. RATING IS BASED ON 3 CONDUCTORS SUPPLYING CURRENT TO THE LOAD (THEIR CONDUCTOR USED AS NEUTRAL OR FOR CONTROL SIGNAL). DERATING FACTORS SHALL APPLY IF 4TH CONDUCTOR IS USED AS CURRENT CARRYING CONDUCTORS.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - MUAL

	MAX BREAKER AMPS	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP @90°C	CONDUIT SIZE 4C	CONDUIT SIZE 3C	CONDUIT SIZE 2C	BONDING CONDUCTOR
PRE-FIX x NO. OF CONDUCTORS	60	AL-60	#2	90	-	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#8
	100	AL-100R	#2	90	-	-	35 (1 1/4")	-	#8
	100	AL-100	#1	100	92	53 (2")	41 (1 1/2")	35 (1 1/4")	#8
	125	AL-125	#1/0	125	115	53 (2")	53 (2")	-	#6
	150	AL-150	#2/0	145	132	63 (2 1/2")	53 (2")	-	#6
	200	AL200R	#4/0	195	-	-	63 (2")	-	#2
	200	AL-200	250MCM	205	184	78 (3")	63 (2 1/2")	-	#2
	225	AL-225	300MCM	230	208	78 (3")	78 (3")	-	#2
	250	AL-250	350MCM	255	224	78 (3")	78 (3")	-	#2
	300	AL300	2 PAIRS OF 350MCM NO.1AL	310	280	-	-	-	#1
	400	AL-400	2 PAIRS OF 350MCM NO.1AL	410	368	-	-	-	#1/0
	500	AL500	2 PAIRS OF 500MCM NO.1AL	500	448	-	-	-	#2
	600	AL600	2 PAIRS OF 500MCM NO.1/0AL	625	560	-	-	-	#1
	800	AL800	3 PAIRS OF 500MCM NO.1/0AL	810	732	-	-	-	#2

NOTE:
1. ALL CABLE SHALL BE NUAL 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 350A.
5. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #1/0.
6. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER OESC OR IEEE 835.
7. FEEDER TYPE AL100R AND AL200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THE DERATING FOR CIRCUIT WITH CURRENT CARRYING NEUTRALS. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.
10. MC DENOTES MULTI CONDUCTOR.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - COPPER

	MAX BREAKER AMPS	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP @90°C	CONDUIT SIZE 4C	CONDUIT SIZE 3C	CONDUIT SIZE 2C	BONDING CONDUCTOR
PRE-FIX x NO. OF CONDUCTORS	30	F30	#12	25	28	21 (3/4")	21 (3/4")	21 (3/4")	#12
	40	F40	#12	25	28	21 (3/4")	21 (3/4")	21 (3/4")	#12
	50	F50	#10	35	32	27 (1")	21 (3/4")	21 (3/4")	#10
	60	F60	#8	50	44	27 (1")	27 (1")	21 (3/4")	#10
	80	F80	#6	65	60	35 (1 1/4")	35 (1 1/4")	27 (1")	#8
	100	F100	#4	85	76	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#8
	100	F100	#3	100	92	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#8
	125	F125	#2	115	-	-	41 (2")	-	#6
	150	F150	#1	130	119	53 (2")	53 (2")	-	#6
	150	F150	#1/0	150	138	53 (2")	53 (2")	-	#6
	200	F200	#2/0	175	-	-	63 (2")	-	#4
	200	F200	#3/0	200	184	78 (3")	63 (2 1/2")	-	#4
	225	F225	#4/0	230	208	78 (3")	63 (2 1/2")	-	#4
	250	F250	250MCM	255	232	78 (3")	78 (3")	-	#4
	300	F300	350MCM	310	280	103 (4")	91 (3 1/2")	-	#2
	350	F350	500MCM	380	343	103 (4")	103 (4")	-	#2
	400	F400	600MCM	425	380	103 (4")	103 (4")	-	#2

NOTE:
1. ALL CABLE SHALL BE 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 400A.
5. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #1/0.
6. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER OESC OR IEEE 835.
7. FEEDER TYPE F1GR AND F2GR SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THE DERATING FOR CIRCUIT WITH CURRENT CARRYING NEUTRALS. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.

NOTES:

1. N/A
2. N/A
3. PROVIDE FRAME BLOCK OUTLINE AND SINGLE LINE DIAGRAM AS PER OESC 36-006 AND MOUNT IN EACH ELECTRICAL ROOM.
4. SECONDARY NEUTRAL "X0" SHALL BE GROUNDED TO THE SUBSTATION ELECTRODE WITH A 35 AWG COPPER CONDUCTOR.
5. SECONDARY NEUTRAL "X0" OF TRANSFORMERS SHALL BE GROUNDED TO THE SUBSTATION ELECTRODE WITH A COPPER CONDUCTOR SIZED AS PER TABLE 17 OF OESC.
6. THE LOW VOLTAGE NEUTRAL "X0" OF THE TRANSFORMERS SHALL BE BONDED TO THE TRANSFORMER ENCLOSURE/GROUND BUS WITH A COPPER CONDUCTOR SIZED AS PER TABLE 16 OF THE OESC.
7. PROVIDE AND INSTALL THE FOLLOWING FOR METERING SOCKET AND E-BOX:
   7a) METER SOCKET: MUST BE TRANSFORMER RATED, NO AUTOMATIC BYPASS. PROVISION FOR A 10 POLE TEST PANEL, LOCKABLE COVER, TO BE GROUND EXTERNALLY BY A #6Cu GROUND, 1.5m (5'-0") TO CENTER OF OPENING.
   7b) METER CONDUIT: 41mm(1 1/2") CONDUIT, NO LBYs PERMITTED UNLESS APPROVED BY DISTRICT METERING OREW LEADER, CONTINUOUS FROM METER INSTRUMENT COMPARTMENT TO METER SOCKET. MAXIMUM OF THREE 90 DEGREE BENDS, MAXIMUM CONDUIT LENGTH IS 30m (100ft).
   7c) E-BOX: A 300X300X150mm (12"X12"X6") E-BOX IS TO BE MOUNTED DIRECTLY ADJACENT 20mm (2") TO THE METER SOCKET. THE E-BOX WILL BE CONNECT TO THE SOCKET WITH A 16mm(1/2") CONDUIT. A 120V DUPLEX RECEPTACLE WILL BE LOCATED IN THIS BOX, IF POSSIBLE THE 120V SUPPLY SHOULD COME FROM A UPS. THE E-BOX MUST BE LOCKABLE.
   7d) PHONE CONDUIT: 16mm (1/2") CONDUIT, BUSHINGS AT BOTH ENDS, WITH PULL STRING. MUST EXTEND FROM JUST ADJACENT TO METER SOCKET TO WHERE THE PHONE TRUNK LINES WILL BE TERMINATED IN THE MAIN PHONE ROOM.
8. COPPER CABLE WITH EQUIVALENT CURRENT RATING WITH FIRE RATED ENSLOSURE OR BURIED IN CONCRETE AS PER OBC ARE ALLOWED TO USE IN LIEU OF MICC CABLE.
9. IN THE EMERGENCY CONDITION, ONE ELEVATOR SHALL WORK AT A TIME ALONG WITH FIRE FIGHTER'S ELEVATOR.
10. N/A
11. N/A
12. N/A
13. N/A
14. METERING EQUIPMENT: (MC) 4 METERING CABINETS FOR LEED PROGRESS SUPPLIED BY PROVIDENT, INSTALLED BY ELECTRICAL CONTRACTOR.
15. REFER TO DRAWING E3-03-CP-01 FOR QUANTITY OF CT.
16. METERING EQUIPMENT: D-EB SOCKET MID, LEED PROGRESS SUPPLIED BY PROVIDENT, INSTALLED BY ELECTRICAL CONTRACTOR.
17. HYDRO METERS SUPPLIED BY TORONTO HYDRO, INSTALLED BY ELECTRICAL CONTRACTOR.

ELECTRICAL PANEL AND CIRCUIT DESIGNATION

1. 2P1CPD-9-7
   - '7' - DENOTES CIRCUIT NUMBER
   - 'D' - DENOTES WEST TOWER OR EAST TOWER
   - 'C' - DENOTES COMMERCIAL DISTRIBUTING PANEL
   - 'R' - DENOTES RESIDENTIAL CORE
   - '9Y' - DENOTES LOCATION OF PANEL (P1 LEVEL)
   - 'E' - DENOTES EMERGENCY PANEL
   - '2' - DENOTES 120/208V OR
   - '5' - DENOTES 347/600V
2. ADDITIONAL DESIGNATIONS:
   LAST LETTER 'P' OF THE PANEL DESIGNATION CAN BE REPLACED WITH FOLLOWING LETTERS FOR DIFFERENT TYPE OF PANELS:
   CD – OUTDOOR LIGHTING
   AL – AMENITY LIGHTING
   AP – AMENITY POWER
   AM – AMENITY MECHANICAL POWER
   PT – PIPE TRACING
   SM – BACN MELTING
   M – MECHANICAL POWER
3. IF THERE ARE MORE THAN ONE PANEL ON SAME FLOOR WITH SAME DESIGNATION, THEN THE LAST LETTER DENOTES ACTION: 1, 2, 3, 5 (EAST), W(WEST),ETC. AFTER THE LAST LETTER OF THE PANEL DESIGNATION.

'RC2' OF THE PANEL DESIGNATION CAN BE REPLACED WITH THE FOLLOWING DESIGNATIONS:
CP – COMMERCIAL PARKING GARAGE
CR – COMMERCIAL RETAIL
RA – RESIDENTIAL ARTS/CAFE

1 FEEDER SCHEDULES AND NOTES
E3-02 N.T.S.

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No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10
2	ISSUED FOR ADD E-004	2016/04/21
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
2	ISSUED FOR BUILDING PERMIT	2015-06-12
1	IST REVIEW	2015-05-01

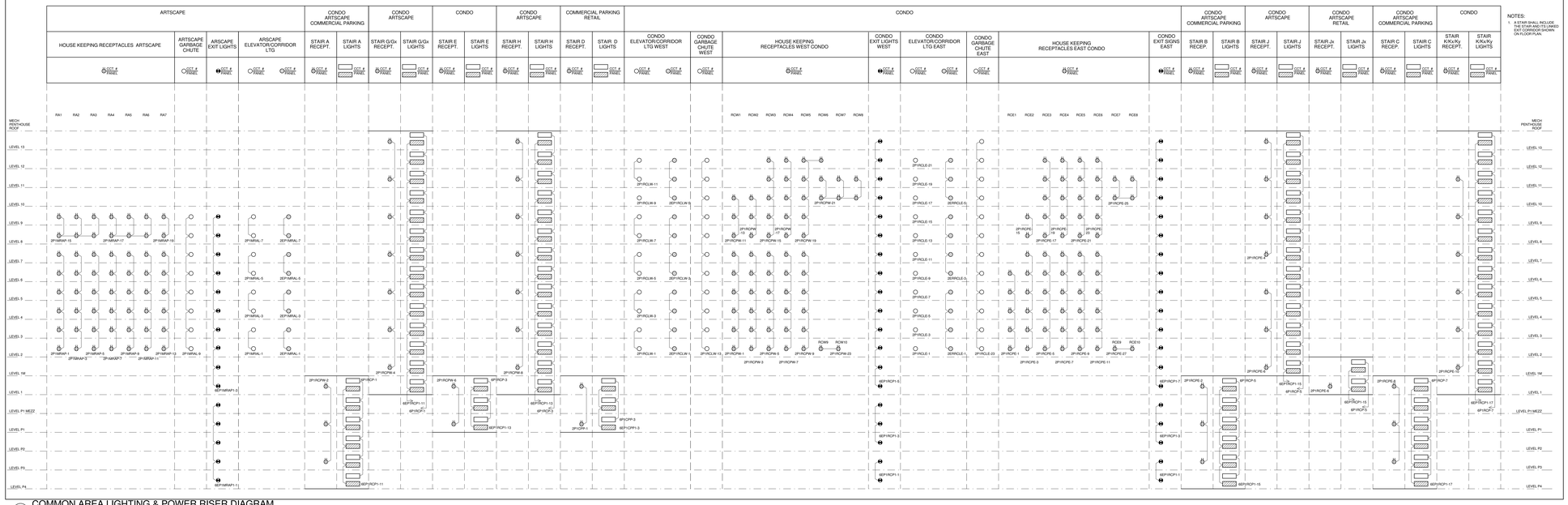
No:	Issued For:	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
COMMERCIAL PARKING / COMMERCIAL RETAIL - SINGLE LINE DIAGRAM

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: N.T.S
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 03/09/15
Drawing No.: E3-03-CP/CR



NOTES:
1. STAIR SHALL INCLUDE THE STAIR AND ITS LINKED EXIT CORRIDOR SHOWN ON FLOOR PLAN.

1 COMMON AREA LIGHTING & POWER RISER DIAGRAM
N.T.S

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/16
4		
3		
2	ISSUED FOR CONSTRUCTION	2018-04-21
1	ISSUED FOR TENDER	2015-10-30

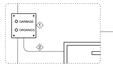
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
COMMON AREA LIGHTING & POWER RISER DIAGRAM

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

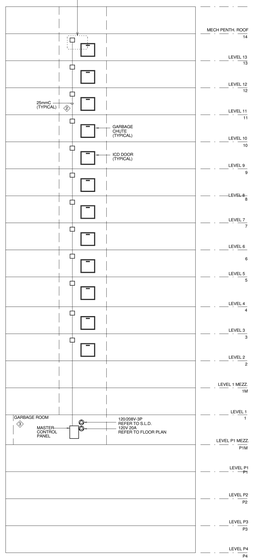
Scale: N.T.S
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 03/09/15
Drawing No: E4-01



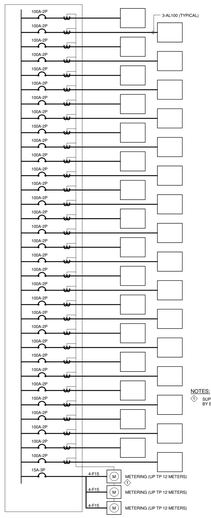
TYPICAL FLOOR CONTROL PANEL
N.T.S.

NOTES:

1. 150mm x 150mm x 100mm BACK BOX WITH FOUR (4) SCREW HOLES SET ON WALL SURFACE.
2. RUN 75 WIRE | 22 GAUGE PVC JACKETED THROUGH CONDUIT FROM CONTROL PANEL TO GARBAGE CHUTE # CONFIG-15JN-HVL-CSA FT 4 . MUST BE MULTI-STRAND CONTROL WIRE (NOT SOLID COPPER).
3. REFER TO FLOOR PLAN FOR GARBAGE ROOM EXACT LOCATION.



8 DISPOSAL SYSTEM ROUGH-IN RISER
N.T.S.



NOTES:

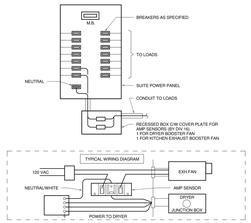
1. SUPPLIED BY TORONTO HYDRO, INSTALLED BY ELECTRICAL CONTRACTOR.

TYPICAL SUITE DISTRIBUTION PANEL (MAX. 32 SUITES)

120/208V, 3PH, 4W, 600 AMP MAINS, 35KA RATED
(REFER TO INDIVIDUAL DISTRIBUTION PANELS FOR EXACT QUANTITIES OF SUITE FEEDERS | SOME UNITS REQUIRE LARGER MAINS PANEL. REFER TOWER DISTRIBUTION SINGLE LINE DIAGRAM FOR THE EXACT REQUIREMENT.

7 TYPICAL SUITE DISTRIBUTION PANEL
N.T.S

EXHAUST FAN AMP SENSOR FAN CONTROL



INSTALLATION NOTES:

1. AMP SENSORS PROVIDED BY DIVISION 15 (VENTILATION CONTRACTOR), INSTALLED AND WIRED BY DIVISION 16 CONTRACTOR.
2. LOOP NEUTRAL (WHITE) DRYER POWER SUPPLY WIRE THROUGH CENTER OF SENSOR TO THE DRYER JUNCTION BOX AND CONNECT.
3. MOUNT SENSOR IN BOX ADJACENT TO PANEL.
4. CONNECT FAN 120V AC POWER SUPPLY TO TOP (RELAY) TERMINALS OF THE SENSOR.
5. INSTALL ALL TO MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.
6. (BINTALLATION AND USE OF THIS EQUIPMENT SHOULD BE IN ACCORDANCE WITH PROVISIONS OF THE ONTARIO ELECTRICAL CODE, APPLICABLE LOCAL CODES AND PERTINENT INDUSTRY STANDARDS SHOULD BE VERIFIED BEFORE INSTALLATION.
7. SIMILAR FOR KITCHEN BOOSTER FAN, INTERLOCK TO MICROWAVE CIRCUIT.

6 EXHAUST FAN AMP SENSOR FAN CONTROL
N.T.S

TYPICAL SUITE PANEL 'SP'

TOTAL LOAD: / TOTAL CIRCUITS: 30	TYPE: MAINS: 120/208V,1ø,3W 100A	MOUNTING: RECESSED LOCATION:						
DESCRIPTION:	KW	BRKR	CKT #	CKT #	BRKR	KW	DESCRIPTION:	
** GENERAL L=SMOKE		SK	1	2	SK		KITCHEN R	2
GENERAL L=R		SK	3	4	SK		KITCHEN R	2
GENERAL L=R		SK	5	6	SK		SPARE	
GENERAL L=R		SK	7	8	SK		SPARE	
GENERAL L=ERV		SK	9	10	SK	7.1	STOVE	1
DINING AREA R		SK	11	12	SK			
CP + TC PANELS		SK	13	14	SK		SPARE	1
HEATER		SK	15	16	SK		SPARE	
FCU+HTG COIL		15A/2P	17	18	SK	5.0	DRYER	1
HOOD		SK	19	20	SK			
EXH. FAN		SK	21	22	SK	0.5	WASHER	1
SPARE		SK	23	24	SK	0.5	FRIDGE	1
SPARE		SK	25	26	SK	1.2	MICROWAVE	1
SPARE		SK	27	28	SK	1.3	DISHWASHER	1
SPARE		SK	29	30	SK		SPARE	

NOTES:

1. FEED SMOKE ALARMS WITH THE SAME CIRCUIT THAT FEEDS THE WASHROOM LIGHTS.
2. ALLOW A MAXIMUM OF 10 OUTLETS (GENERAL LIGHTS AND DUPLEX RECEPTACLES) PER CIRCUIT.
3. PROVIDE A 3-W CIRCUIT FOR EVERY TWO SPLIT RECEPTACLES IN KITCHEN. A MINIMUM OF TWO SEPARATE 3-W CIRCUITS SHALL BE ALLOWED FOR EVERY KITCHEN IN SUITES. REFER ALSO TO NOTE 10.
4. ADJACENT SPLIT RECEPTACLES IN KITCHEN SHALL NOT BE ON THE SAME 3-W CIRCUIT. REFER ALSO TO NOTE 10.
5. ALL PANELS SHALL BE C/W MAIN BREAKER. COPPER BUSSING AND DOOR.
6. LEGEND:
   1/F DENOTES HEATERS
   1/L DENOTES LIGHTING
   1/R DENOTES RECEPTACLES
7. ** DENOTES CIRCUITS FOR GENERAL RECEPTACLES, LIGHTS AND SMOKE ALARMS.
8. ◇ BREAKER SIZE FOR FAN COIL UNITS, REFER TO ME SCHEDULE ME-01 & 02.
9. PROVIDE ARC FAULT CIRCUIT BREAKERS FOR ALL BEDROOM RECEPTACLE CIRCUITS.
10. PROVIDE GROUND FAULT TYPE BREAKER(S) ON ALL CIRCUITS FEEDING RECEPTACLES WITHIN 1 METER OF SINK(S) IN KITCHEN AREAS.
11. SOME UNITS REQUIRE LARGER MAINS PANEL, REFER ES-01 FOR THE EXACT REQUIREMENT.

5 TYPICAL SUITE PANEL INSTALLATION - ARTSCAPE
N.T.S

TYPICAL SUITE PANEL 'SP'

TOTAL LOAD: / TOTAL CIRCUITS: 34	TYPE: MAINS: 120/208V,1ø,3W 200A	MOUNTING: RECESSED LOCATION:						
DESCRIPTION:	KW	BRKR	CKT #	CKT #	BRKR	KW	DESCRIPTION:	
** GENERAL L=SMOKE		SK	1	2	SK		KITCHEN R	2
GENERAL L=R		SK	3	4	SK		KITCHEN R	2
GENERAL L=R		SK	5	6	SK		SPARE	
GENERAL L=R		SK	7	8	SK		SPARE	
GENERAL L=ERV		SK	9	10	SK	7.1	COOKTOP	1
DINING AREA R		SK	11	12	SK			
CP + TC PANELS		SK	13	14	SK	5.0	OVEN	1
HOT WATER HEATER		SK	15	16	SK			
WINDOW CONTROL PANEL		SK	17	18	SK	5.0	DRYER	1
HOOD		SK	19	20	SK			
EXH. FAN		SK	21	22	SK	0.5	WASHER	1
ELEVATOR MOTOR		SK	23	24	SK	0.5	FRIDGE	1
		SK	25	26	SK	1.2	MICROWAVE	1
		SK	27	28	SK	1.3	DISHWASHER	1
ELEVATOR LTG		SK	29	30	SK		FAN COIL OUTDOOR UNITS	
SPARE		SK	31	32	SK		SPARE	
SPARE		SK	33	34	SK		SPARE	

NOTES:

1. FEED SMOKE ALARMS WITH THE SAME CIRCUIT THAT FEEDS THE WASHROOM LIGHTS.
2. ALLOW A MAXIMUM OF 10 OUTLETS (GENERAL LIGHTS AND DUPLEX RECEPTACLES) PER CIRCUIT.
3. PROVIDE A 3-W CIRCUIT FOR EVERY TWO SPLIT RECEPTACLES IN KITCHEN. A MINIMUM OF TWO SEPARATE 3-W CIRCUITS SHALL BE ALLOWED FOR EVERY KITCHEN IN SUITES. REFER ALSO TO NOTE 10.
4. ADJACENT SPLIT RECEPTACLES IN KITCHEN SHALL NOT BE ON THE SAME 3-W CIRCUIT. REFER ALSO TO NOTE 10.
5. ALL PANELS SHALL BE C/W MAIN BREAKER. COPPER BUSSING AND DOOR.
6. LEGEND:
   1/F DENOTES HEATERS
   1/L DENOTES LIGHTING
   1/R DENOTES RECEPTACLES
7. ** DENOTES CIRCUITS FOR GENERAL RECEPTACLES, LIGHTS AND SMOKE ALARMS.
8. ◇ BREAKER SIZE FOR FAN COIL UNITS, REFER TO ME SCHEDULE ME-01 & 02.
9. PROVIDE ARC FAULT CIRCUIT BREAKERS FOR ALL BEDROOM RECEPTACLE CIRCUITS.
10. PROVIDE GROUND FAULT TYPE BREAKER(S) ON ALL CIRCUITS FEEDING RECEPTACLES WITHIN 1 METER OF SINK(S) IN KITCHEN AREAS.
11. SOME UNITS REQUIRE LARGER MAINS PANEL, REFER ES-01 FOR THE EXACT REQUIREMENT.

4 TYPICAL SUITE PANEL INSTALLATION - NETZED
N.T.S

TYPICAL SUITE PANEL 'SP'

TOTAL LOAD: / TOTAL CIRCUITS: 34	TYPE: MAINS: 120/208V,1ø,3W 200A	MOUNTING: RECESSED LOCATION:						
DESCRIPTION:	KW	BRKR	CKT #	CKT #	BRKR	KW	DESCRIPTION:	
** GENERAL L=SMOKE		SK	1	2	SK		KITCHEN R	2
GENERAL L=R		SK	3	4	SK		KITCHEN R	2
GENERAL L=R		SK	5	6	SK		SPARE	
GENERAL L=R		SK	7	8	SK		SPARE	
GENERAL L=ERV		SK	9	10	SK	7.1	COOKTOP	1
DINING AREA R		SK	11	12	SK			
CP + TC PANELS		SK	13	14	SK	5.0	OVEN	1
HEATER		SK	15	16	SK			
FCU+HTG COIL		15A/2P	17	18	SK	5.0	DRYER	1
FCU+HTG COIL		15A/2P	19	20	SK			
HOOD		SK	21	22	SK	0.5	WASHER	1
EXH. FAN		SK	23	24	SK	0.5	FRIDGE	1
ELEVATOR MOTOR		SK	25	26	SK	1.2	MICROWAVE	1
		SK	27	28	SK	1.3	DISHWASHER	1
ELEVATOR LTG		SK	29	30	SK		SPARE	
SPARE		SK	31	32	SK		SPARE	
SPARE		SK	33	34	SK		SPARE	

NOTES:

1. FEED SMOKE ALARMS WITH THE SAME CIRCUIT THAT FEEDS THE WASHROOM LIGHTS.
2. ALLOW A MAXIMUM OF 10 OUTLETS (GENERAL LIGHTS AND DUPLEX RECEPTACLES) PER CIRCUIT.
3. PROVIDE A 3-W CIRCUIT FOR EVERY TWO SPLIT RECEPTACLES IN KITCHEN. A MINIMUM OF TWO SEPARATE 3-W CIRCUITS SHALL BE ALLOWED FOR EVERY KITCHEN IN SUITES. REFER ALSO TO NOTE 10.
4. ADJACENT SPLIT RECEPTACLES IN KITCHEN SHALL NOT BE ON THE SAME 3-W CIRCUIT. REFER ALSO TO NOTE 10.
5. ALL PANELS SHALL BE C/W MAIN BREAKER. COPPER BUSSING AND DOOR.
6. LEGEND:
   1/F DENOTES HEATERS
   1/L DENOTES LIGHTING
   1/R DENOTES RECEPTACLES
7. ** DENOTES CIRCUITS FOR GENERAL RECEPTACLES, LIGHTS AND SMOKE ALARMS.
8. ◇ BREAKER SIZE FOR FAN COIL UNITS, REFER TO ME SCHEDULE ME-01 & 02.
9. PROVIDE ARC FAULT CIRCUIT BREAKERS FOR ALL BEDROOM RECEPTACLE CIRCUITS.
10. PROVIDE GROUND FAULT TYPE BREAKER(S) ON ALL CIRCUITS FEEDING RECEPTACLES WITHIN 1 METER OF SINK(S) IN KITCHEN AREAS.
11. SOME UNITS REQUIRE LARGER MAINS PANEL, REFER ES-01 FOR THE EXACT REQUIREMENT.

3 TYPICAL SUITE PANEL INSTALLATION - CONDO 3
N.T.S

TYPICAL SUITE PANEL 'SP'

TOTAL LOAD: / TOTAL CIRCUITS: 34	TYPE: MAINS: 120/208V,1ø,3W 200A	MOUNTING: RECESSED LOCATION:						
DESCRIPTION:	KW	BRKR	CKT #	CKT #	BRKR	KW	DESCRIPTION:	
** GENERAL L=SMOKE		SK	1	2	SK		KITCHEN R	2
GENERAL L=R		SK	3	4	SK		KITCHEN R	2
GENERAL L=R		SK	5	6	SK		SPARE	
GENERAL L=R		SK	7	8	SK		SPARE	
GENERAL L=ERV		SK	9	10	SK	7.1	COOKTOP	1
DINING AREA R		SK	11	12	SK			
CP + TC PANELS		SK	13	14	SK	5.0	OVEN	1
HEATER		SK	15	16	SK			
FCU+HTG COIL		15A/2P	17	18	SK	5.0	DRYER	1
FCU+HTG COIL		15A/2P	19	20	SK			
HOOD		SK	21	22	SK	0.5	WASHER	1
EXH. FAN		SK	23	24	SK	0.5	FRIDGE	1
ELEVATOR MOTOR		SK	25	26	SK	1.2	MICROWAVE	1
		SK	27	28	SK	1.3	DISHWASHER	1
ELEVATOR LTG		SK	29	30	SK		SPARE	
SPARE		SK	31	32	SK		SPARE	
SPARE		SK	33	34	SK		SPARE	

NOTES:

1. FEED SMOKE ALARMS WITH THE SAME CIRCUIT THAT FEEDS THE WASHROOM LIGHTS.
2. ALLOW A MAXIMUM OF 10 OUTLETS (GENERAL LIGHTS AND DUPLEX RECEPTACLES) PER CIRCUIT.
3. PROVIDE A 3-W CIRCUIT FOR EVERY TWO SPLIT RECEPTACLES IN KITCHEN. A MINIMUM OF TWO SEPARATE 3-W CIRCUITS SHALL BE ALLOWED FOR EVERY KITCHEN IN SUITES. REFER ALSO TO NOTE 10.
4. ADJACENT SPLIT RECEPTACLES IN KITCHEN SHALL NOT BE ON THE SAME 3-W CIRCUIT. REFER ALSO TO NOTE 10.
5. ALL PANELS SHALL BE C/W MAIN BREAKER. COPPER BUSSING AND DOOR.
6. LEGEND:
   1/F DENOTES HEATERS
   1/L DENOTES LIGHTING
   1/R DENOTES RECEPTACLES
7. ** DENOTES CIRCUITS FOR GENERAL RECEPTACLES, LIGHTS AND SMOKE ALARMS.
8. ◇ BREAKER SIZE FOR FAN COIL UNITS, REFER TO ME SCHEDULE ME-01 & 02.
9. PROVIDE ARC FAULT CIRCUIT BREAKERS FOR ALL BEDROOM RECEPTACLE CIRCUITS.
10. PROVIDE GROUND FAULT TYPE BREAKER(S) ON ALL CIRCUITS FEEDING RECEPTACLES WITHIN 1 METER OF SINK(S) IN KITCHEN AREAS.
11. SOME UNITS REQUIRE LARGER MAINS PANEL, REFER ES-01 FOR THE EXACT REQUIREMENT.

2 TYPICAL SUITE PANEL INSTALLATION - CONDO 2
N.T.S

TYPICAL SUITE PANEL 'SP'

TOTAL LOAD: / TOTAL CIRCUITS: 34	TYPE: MAINS: 120/208V,1ø,3W 200A	MOUNTING: RECESSED LOCATION:						
DESCRIPTION:	KW	BRKR	CKT #	CKT #	BRKR	KW	DESCRIPTION:	
** GENERAL L=SMOKE		SK	1	2	SK		KITCHEN R	2
GENERAL L=R		SK	3	4	SK		KITCHEN R	2
GENERAL L=R		SK	5	6	SK		SPARE	
GENERAL L=R		SK	7	8	SK		SPARE	
GENERAL L=ERV		SK	9	10	SK	7.1	COOKTOP	1
DINING AREA R		SK	11	12	SK			
CP + TC PANELS		SK	13	14	SK	5.0	OVEN	1
HEATER		SK	15	16	SK			
FCU+HTG COIL		15A/2P	17	18	SK	5.0	DRYER	1
FCU+HTG COIL		15A/2P	19	20	SK			
HOOD		SK	21	22	SK	0.5	WASHER	1
EXH. FAN		SK	23	24	SK	0.5	FRIDGE	1
SPARE		SK	25	26	SK	1.2	MICROWAVE	1
SPARE		SK	27	28	SK	1.3	DISHWASHER	1
SPARE		SK	29	30	SK		SPARE	
SPARE		SK	31	32	SK		SPARE	
SPARE		SK	33	34	SK		SPARE	

NOTES:

1. FEED SMOKE ALARMS WITH THE SAME CIRCUIT THAT FEEDS THE WASHROOM LIGHTS.
2. ALLOW A MAXIMUM OF 10 OUTLETS (GENERAL LIGHTS AND DUPLEX RECEPTACLES) PER CIRCUIT.
3. PROVIDE A 3-W CIRCUIT FOR EVERY TWO SPLIT RECEPTACLES IN KITCHEN. A MINIMUM OF TWO SEPARATE 3-W CIRCUITS SHALL BE ALLOWED FOR EVERY KITCHEN IN SUITES. REFER ALSO TO NOTE 10.
4. ADJACENT SPLIT RECEPTACLES IN KITCHEN SHALL NOT BE ON THE SAME 3-W CIRCUIT. REFER ALSO TO NOTE 10.
5. ALL PANELS SHALL BE C/W MAIN BREAKER. COPPER BUSSING AND DOOR.
6. LEGEND:
   1/F DENOTES HEATERS
   1/L DENOTES LIGHTING
   1/R DENOTES RECEPTACLES
7. ** DENOTES CIRCUITS FOR GENERAL RECEPTACLES, LIGHTS AND SMOKE ALARMS.
8. ◇ BREAKER SIZE FOR FAN COIL UNITS, REFER TO ME SCHEDULE ME-01 & 02.
9. PROVIDE ARC FAULT CIRCUIT BREAKERS FOR ALL BEDROOM RECEPTACLE CIRCUITS.
10. PROVIDE GROUND FAULT TYPE BREAKER(S) ON ALL CIRCUITS FEEDING RECEPTACLES WITHIN 1 METER OF SINK(S) IN KITCHEN AREAS.
11. SOME UNITS REQUIRE LARGER MAINS PANEL, REFER ES-01 FOR THE EXACT REQUIREMENT.

1 TYPICAL SUITE PANEL INSTALLATION - CONDO 1
N.T.S

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10-14-15
Date

D. C. W. BELLAMY
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Dauphin Kelowna Fort Saint John

No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2018-04-21
1	ISSUED FOR TENDER	2015-10-05

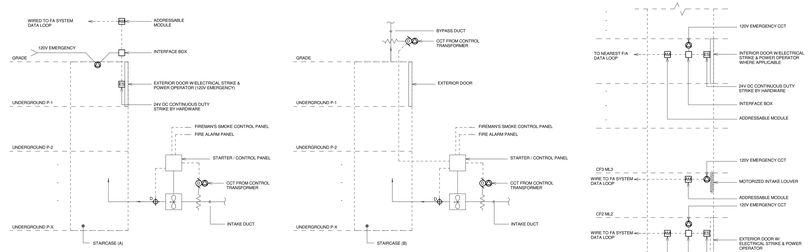
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
TYPICAL SUITE DISTRIBUTION PANEL & TYPICAL SUITE PANEL SCHEDULES

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale	N.T.S.
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	10/14/15
Drawing No.	E4-02



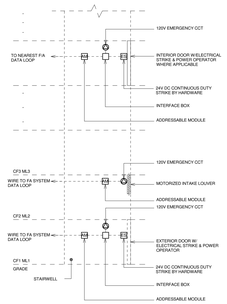
SCENARIO 1
(DIRECT TO OUTSIDE)

NOTES:

1. UNDER NORMAL CONDITIONS, THE PRESSURIZATION FAN IS OFF AND THE DAMPERS ARE ON THE AIR INTAKE AND BYPASS DUCT OR DOOR ARE CLOSED.
2. IN A FIRE SITUATION, THROUGH A SIGNAL FROM FIRE ALARM PANEL, THE DAMPER ON THE AIR INTAKE SHALL OPEN. AN END SWITCH ON THE DAMPER ACTUATOR SHALL SIGNAL THE FAN TO RUN WHEN THE DAMPER IS OPEN.
3. FIRE ALARM SIGNAL IS SEND OPEN EXTERIOR DOOR OR BYPASS DAMPER.
4. THE FAN SHOULD BE WIRED FOR MANUAL STOPPING AT CACF.
5. IT SHOULD BE POSSIBLE TO OVERRIDE ALL CONTROLS AND RUN THE SYSTEM THROUGH THE FIREMAN'S SMOKE CONTROL PANEL.

BELOW GRADE STAIRS PRESSURIZATION SYSTEM CONTROL
N.T.S.

SCENARIO 2
(BYPASS DUCT)

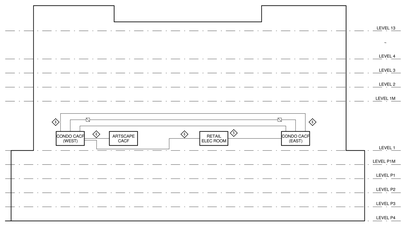


NOTES:

1. UNDER NORMAL CONDITIONS, THE DAMPERS ON THE AIR INTAKE AND DOOR SHALL BE CLOSED.
2. IN A FIRE SITUATION, THROUGH A SIGNAL FROM FIRE ALARM PANEL, THE DAMPER ON THE AIR INTAKE AND/OR DOOR SHALL OPEN.
3. IT SHOULD BE POSSIBLE TO OVERRIDE ALL CONTROLS AND RUN THE SYSTEM THROUGH THE FIREMAN'S SMOKE CONTROL PANEL.

ABOVE GRADE STAIRS VENTILATION SYSTEM CONTROL
N.T.S.

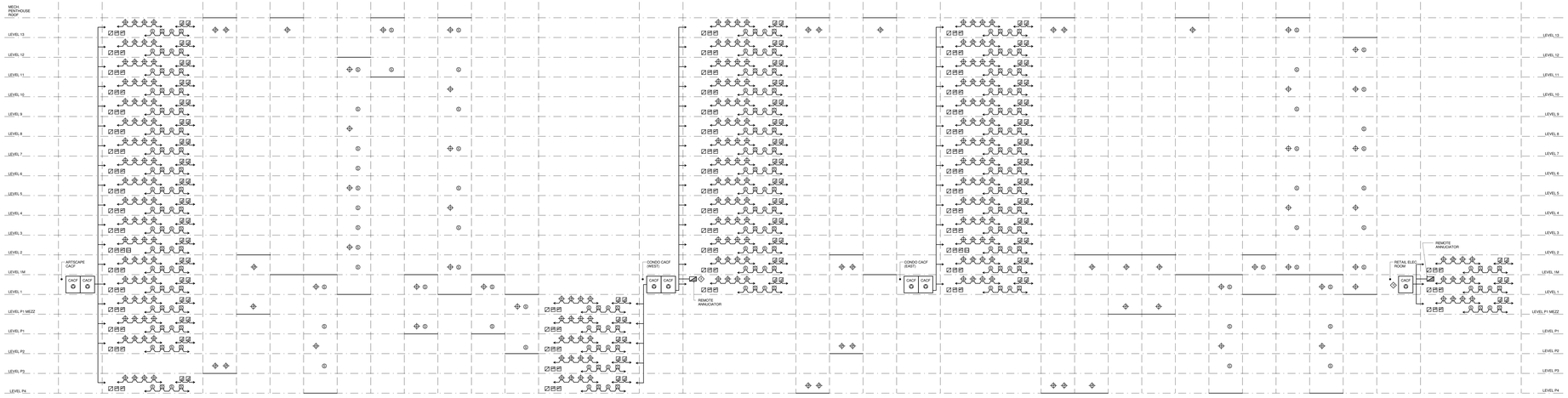
3 BELOW GRADE STAIRS PRESSURIZATION SYSTEM CONTROL & ABOVE GRADE VENTILATION SYSTEM CONTROL
N.T.S



NOTES:

1. FIRE ALARM SYSTEM MUST BE COMMON WITH SEPARATE ALARM CONTROL FACILITIES(CACF) AS SHOWN.
2. EACH CACF SHALL CONTROL VOICE COMMUNICATION FOR ALL PARKING LEVELS IN ADDITION TO INDIVIDUAL FLOOR AREAS IN THE COMPONENT OF BUILDING THAT THE CACF SERVES. EACH CACF SHALL SEND MESSAGES ON ALL FLOORS ABOVE THE GROUND. EACH CACF SHALL HAVE AN END SWITCH FOR EACH OF THE BUILDINGS. EACH CACF SHALL ACTUATE SMOKE CONTROL EQUIPMENT PERTAINING TO THE ABOVES-GRADE PORTION OF THE BUILDING. EACH CACF SHALL ALSO ACTUATE SMOKE CONTROL EQUIPMENT FOR THE ENTIRE PARKING LEVELS AND AMENITY SPACES ON LOWER GRADE LEVELS.
3. EACH CACF SHALL BE PROVIDED WITH LIGHTS THAT INDICATE IF SMOKE CONTROL EQUIPMENT PERTAINING TO BELOW-GRADE LEVELS AND LOWER GRADE AMENITY SPACES IS ACTUATED. ALL CACF SHALL HAVE ANOTHER CACF SHALL HAVE INDICATOR LIGHTS DENOTING ACTIVE STATUS FOR ABOVE-GRADE SMOKE CONTROL EQUIPMENT CONTROLLED AT THE OTHER CACF.
4. EACH ANNUNCIATOR TO DISPLAY ALL BELOW-GRADE ZONES AND LOWER GRADE AMENITY SPACES, AS WELL AS ALL FLOORS ABOVE THE GROUND.
5. A SEPARATE ADDRESSABLE FIRE ALARM SUB-CONTROL PANEL WILL BE PROVIDED IN THE RETAIL ELECTRICAL ROOM TO ALLOW CONNECTION FOR ALL RETAIL SPACES, TIED BACK TO THE MAIN FIRE ALARM ROOM.
6. PROVIDE a 50mm(2) BETWEEN CACF ROOMS FOR SYSTEM INTERCONNECTION AS REQUIRED INCLUDING ELEVATOR MONITORING.

2 FIRE ALARM SYSTEM INTERCONNECTION SCHEMATIC
N.T.S



THE FIRE ALARM SYSTEM SHALL BE A MODIFIED TWO STAGE SYSTEM PROGRAMMED TO ALARM FIRE FLOOR FLOOR ABOVE AND BELOW. AUDIBLE ALARM SIGNAL SHALL BE PROVIDED THROUGHOUT THE REST OF THE BUILDING. THE PARKING GARAGE WILL BE PROVIDED WITH A SEPARATE ALARM SIGNAL ON ACTIVATION OF ANY DEVICE ON ANY GARAGE LEVEL.

NOTES:

1. REFER TO SPEC SECTION 14113 FOR ELEVATOR SHAFT/MACHINE ROOM FUNCTIONS.
2. A STAIR SHALL INCLUDE THE STAIR AND ITS ATTACHED EXIT CORRIDOR SHAFT ON FLOOR LEVEL.
3. REFER TO FLOOR PLAN FOR DEVICE QUANTITY, TYPE AND LOCATION.
4. ALL CIRCUIT BREAKERS SERVING FIRE ALARM SYSTEM SHALL BE LOCKABLE TYPE.
5. USE HIGH TEMPERATURE HEAT DETECTORS IN MECHANICAL PENTHOUSES.
6. PULL STATION SHALL BE WIRED ON THEIR OWN ZONE.
7. SEPARATE SIGNALS SHALL BE PROVIDED TO ELEVATOR CONTROLLER AS FOLLOWING:

   - GENERAL FIRE ALARM SIGNAL(INIT FROM PULL STATION ACTIVATION).
   - SIGNAL FROM A MACHINE ROOM SMOKE DETECTOR.
   - SIGNAL FROM HOISTWAY TOP OF SHAFT DETECTOR.
   - SIGNAL FROM PIT DETECTOR.

1. PROVIDE REMOTE LCD ANNUNCIATOR AT CONCIERGE DESK.
2. REMOTE FIRE ALARM SYSTEM ANNUNCIATOR (WITH SUB CONTROL PANEL).
3. A SEPARATE ADDRESSABLE FIRE ALARM SUB-CONTROL PANEL WILL BE PROVIDED IN THE RETAIL ELECTRICAL ROOM TO ALLOW CONNECTION FOR ALL RETAIL SPACES, TIED BACK TO THE MAIN FIRE ALARM ROOM.

1 FIRE ALARM RISER DIAGRAM
N.T.S

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Date: 06-12-15

D. C. W. BELLAMY
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Toronto Vancouver Windsor Moncton Ottawa Halifax
Dauphin Kitchener Trail Saint John

No.	Revision	Date
1	ISSUED FOR ADD E-003	2016/01/26

No.	Issued For	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-04-21
1	ISSUED FOR TENDER	2015-10-30

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
FIRE ALARM RISER DIAGRAM

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale	As indicated
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	06/12/15
Drawing No.	E4-03

Plot Date: 22/06/2016 11:10:42 AM File Path: C:\Users\cdc\Documents\MWCC - Aquavista - MEP_Rev_2014

FIRE ALARM SYSTEM

ZONE SCHEDULE

ABBREVIATIONS:
MPS - PULL STATION
HD - HEAT DETECTOR
SD - SMOKE DETECTOR
DMSD - DUCT SMOKE DETECTOR
TD - THERMAL DETECTOR
AV - ALARM CHECK
SC - SUPERVISORY CONTACT
SV - SUPERVISED VALVE
FS - FLOE SWITCH
PS - PRESSURE SWITCH
LPS - LOW PRESSURE SWITCH

CONDO

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS ALARM	REGISTERED AS TROUBLE	INITIATE AS	DISPLAY
ZF4-1	U/G PARKING LEVEL P4 - W	PS/SD/MPS	✓		CONDO W	ALL CACF
ZF4-2	U/G PARKING LEVEL P4 - E	PS/SD/MPS	✓		CONDO E	ALL CACF
ZFH-3	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (P403)	SD	✓		CONDO E	ALL CACF
ZFH-4	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (P413)	SD	✓		CONDO E	ALL CACF
ZFH-5	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZFH-6	U/G PARKING LEVEL P4 - BOILER ROOM (HIGH TEMPERATURE)	FS/HD	✓		CONDO E	ALL CACF
ZFH-7	U/G PARKING LEVEL P4 - CHILLER ROOM	FS/HD	✓		CONDO E	ALL CACF
ZFH-8	U/G PARKING LEVEL P4 - ELEVATOR MACHINE ROOM (P410)	SD	✓		CONDO E	ALL CACF
ZFH-9	U/G PARKING LEVEL P4 - FITNATION SYSTEM ROOM (P418)	FS/HD			CONDO E	ALL CACF
ZF5-1	U/G PARKING LEVEL P5 - WEST	PS/SD/MPS	✓		CONDO W	ALL CACF
ZF5-2	U/G PARKING LEVEL P5 - EAST	PS/SD/MPS	✓		CONDO E	ALL CACF
ZF5-3	U/G PARKING LEVEL P5 - ELEVATOR LOBBY (P503)	SD	✓		CONDO W	ALL CACF
ZF5-4	U/G PARKING LEVEL P5 - ELEVATOR LOBBY (P508)	SD	✓		CONDO E	ALL CACF
ZF5-5	U/G PARKING LEVEL P5 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZF5-6	SPARE					
ZF5-7	SPARE					
ZF6-1	SPARE					
ZF6-2	U/G PARKING LEVEL P2 - EAST	PS/SD/MPS	✓		CONDO E	ALL CACF
ZF6-3	SPARE				CONDO E	ALL CACF
ZF6-4	U/G PARKING LEVEL P2 - ELEVATOR LOBBY (P213)	SD	✓		CONDO E	ALL CACF
ZF6-5	U/G PARKING LEVEL P2 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZF6-6	U/G PARKING LEVEL P2 - MECHANICAL ROOM (P216)	HD/FS	✓		CONDO E	ALL CACF
ZF6-7	U/G PARKING LEVEL P2 - ELEVATOR MACHINE ROOM (P217)	HD/FS			CONDO E	ALL CACF
ZF6-8	U/G PARKING LEVEL P2 - REFUSE ROOM (P218) (P209)	SD	✓		CONDO E	ALL CACF
ZF6-9	U/G PARKING LEVEL P2 - MAIN ELECTRICAL ROOM (P219)	SD	✓		CONDO E	ALL CACF
ZF6-10	U/G PARKING LEVEL P2 - LOFTY CCU ROOM	SD	✓		CONDO W	ALL CACF
ZF6-11	U/G PARKING LEVEL P2 - CONDO CCU ROOM	SD	✓		CONDO W	ALL CACF
ZF6-12	U/G PARKING LEVEL P2 - BEAWFIELD MAIN ENTRANCE ROOM	SD	✓		CONDO W	ALL CACF
ZF1-1	U/G PARKING LEVEL P1 - WEST	PS/SD/MPS	✓		CONDO W	ALL CACF
ZF1-2	U/G PARKING LEVEL P1 - EAST	PS/SD/MPS	✓		CONDO E	ALL CACF
ZF1-3	U/G PARKING LEVEL P1 - AMENITY	FS/SD/MPS	✓		CONDO W	ALL CACF
ZF1-4	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P117)	SD	✓		CONDO W	ALL CACF
ZF1-5	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P130)	SD	✓		CONDO E	ALL CACF
ZF1-6	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZF1-7	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P103)	SD	✓		CONDO W	ALL CACF
ZF1-8	U/G PARKING LEVEL P1 - MAIN ELECTRICAL ROOM (P102)	SD	✓		CONDO W	ALL CACF
ZF1-9	U/G PARKING LEVEL P1 - EAST CONDO ELETRICAL ROOM (P132)	SD	✓		CONDO E	ALL CACF
ZF1-10	U/G PARKING LEVEL P1 - CORE ELETRICAL ROOM (P131)	SD	✓		CONDO E	ALL CACF
ZF1-11	U/G PARKING LEVEL P1 - ELEVATOR MACHINE ROOM (P135)	SD	✓		CONDO E	ALL CACF
ZF1-12	U/G PARKING LEVEL P1 - SPRINKLER ROOM (P101)	HD/FS	✓		CONDO W	ALL CACF
ZF1-13	U/G PARKING LEVEL P1 - MAKE-UP AIR UNIT ROOM (P122)	HD/FS	✓		CONDO W	ALL CACF
ZF1-14	U/G PARKING LEVEL P1 - SECURITY ROOM (P133)	SD	✓		CONDO E	ALL CACF
ZF1-15	U/G PARKING LEVEL P1 - WINDOW SPRINKER COMM. VEST (P124)	FS	✓		CONDO W	ALL CACF
ZF1M-1	U/G PARKING LEVEL P1M - SANITARY PIPE ROOM	HD/FS	✓		CONDO W	ALL CACF
ZF1M-2	SPARE					
ZL-1	LEVEL 1 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-2	LEVEL 1 - ELEVATOR LOBBY - COMMERCIAL	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-3	LEVEL 1 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
ZL-4	LEVEL 1 - CONDO - EAST - GARBAGE ROOM	HD/FS	✓		CONDO E	C/W & C/E
ZL-5	LEVEL 1 - CONDO - LOADING	PS/MPS	✓		CONDO E	C/W & C/E
ZL-6	LEVEL 1 - CONDO - SERVICE CORRIDOR	MPS/SD	✓		CONDO W	C/W & C/E
ZL-7	LEVEL 1 - CONDO - ELEVATOR ROOM (131)	SD	✓		CONDO E	C/W & C/E
ZM2-1	LEVEL 1 MEZZANINE - CONDO - SERVICE CORRIDOR	SD	✓		CONDO W	C/W & C/E
ZM2-2	LEVEL 1 MEZZANINE - CONDO - WEST GARAGE ROOM	HD/FS	✓		CONDO W	C/W & C/E
ZM2-3	LEVEL 1 MEZZANINE - CONDO - MAKE-UP AIR UNIT ROOM	HD/FS	✓		CONDO W	C/W & C/E
ZM2-4	LEVEL 1 MEZZANINE - CONDO - RECYCLING DROP OFF ROOM	HD/FS	✓		CONDO W	C/W & C/E
ZM2-5	LEVEL 1 MEZZANINE - CONDO - POOL MECH ROOM	HD/FS	✓		CONDO E	C/W & C/E
ZL-1	LEVEL 2 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-2	LEVEL 2 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL-3	LEVEL 2 - CONDO - EAST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-4	LEVEL 2 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL-5	LEVEL 2 - CONDO - AMENITY	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-1	LEVEL 3 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-2	LEVEL 3 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL-3	LEVEL 3 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
ZL-4	LEVEL 3 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL-1	LEVEL 4 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-2	LEVEL 4 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL-3	LEVEL 4 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
ZL-4	LEVEL 4 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL-1	LEVEL 5 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-2	LEVEL 5 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL-3	LEVEL 5 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
ZL-4	LEVEL 5 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL-1	LEVEL 6 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-2	LEVEL 6 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL-3	LEVEL 6 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
ZL-4	LEVEL 6 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL-1	LEVEL 7 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-2	LEVEL 7 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL-3	LEVEL 7 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
ZL-4	LEVEL 7 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL-1	LEVEL 8 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-2	LEVEL 8 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL-3	LEVEL 8 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
ZL-4	LEVEL 8 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL-1	LEVEL 9 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL-2	LEVEL 9 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL-3	LEVEL 9 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
ZL-4	LEVEL 9 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL1-1	LEVEL 10 - CONDO	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL1-2	LEVEL 10 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL1-3	LEVEL 10 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL1-4	SAPRE					
ZL1-1	LEVEL 11 - CONDO	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL1-2	LEVEL 11 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL1-3	LEVEL 11 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL1-4	SAPRE					
ZL2-1	LEVEL 12 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
ZL2-2	LEVEL 12 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL2-3	LEVEL 12 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
ZL2-4	LEVEL 12 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
ZL3-1	LEVEL 13 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
ZL3-2	LEVEL 13 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
ZL3-3	LEVEL 13 - CONDO - EAST - GENERATOR ROOM (HIGH TEMP.)	FS/HD/SD	✓		CONDO E	C/W & C/E
ZL3-4	LEVEL 13 - CONDO - EAST - ELEVATOR MACHINE ROOM	FS/HD	✓		CONDO E	C/W & C/E
ZL3-5	LEVEL 13 - CONDO - EAST - MECHANICAL ROOM	FS/HD	✓		CONDO E	C/W & C/E
ZL3-6	LEVEL 13 - CONDO - EAST - NET ZERO MECHANICAL ROOM	SD	✓		CONDO E	C/W & C/E
ZL3-7	LEVEL 13 - CONDO - EAST - LOFTY CCU ROOM	SD	✓		CONDO E	C/W & C/E
ZL3-8	LEVEL 13 - CONDO - EAST - CONDO CCU ROOM	SD	✓		CONDO E	C/W & C/E
ZL3-9	LEVEL 13 - CONDO - EAST - BEAWFIELD MAIN ENTRANCE ROOM	SD	✓		CONDO E	C/W & C/E
ZL4	SPARE					
ZL5	SPARE					
ZL6	GARBAGE CHUTE - WEST 1	FS/HD	✓		CONDO W	C/W & C/E
ZL7	GARBAGE CHUTE - WEST 2	FS/HD	✓		CONDO W	C/W & C/E
ZL8	GARBAGE CHUTE - EAST 1	FS/HD	✓		CONDO E	C/W & C/E
ZL9	GARBAGE CHUTE - EAST 2	FS/HD	✓		CONDO E	C/W & C/E
Z00	SPARE					
Z01	SPARE					
Z02	STAR-A	SD	✓		CONDO W	C/W & C/E
Z03	STAR-D/Gx	SD	✓		CONDO W	C/W & C/E
Z04	STAR-E	SD	✓		CONDO W	C/W & C/E
Z05	STAR-B	SD	✓		CONDO W	C/W & C/E
Z06	STAR-C	SD	✓		CONDO W	C/W & C/E

CONDO

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS ALARM	REGISTERED AS TROUBLE	INITIATE AS	DISPLAY
Z08	STAR-B	SD	✓		CONDO E	C/W & C/E
Z09	STAR-Jx	SD	✓		CONDO E	C/W & C/E
Z00	STAR-J	SD	✓		CONDO E	C/W & C/E
Z01	STAR-C	SD	✓		CONDO E	C/W & C/E
Z02	STAR-KKx/Kx	SD	✓		CONDO E	C/W & C/E
Z03	SPARE					
Z04	SPARE					
Z05	SPARE					
Z06	ELEVATOR #1 PIT - CONDO	HD	✓		CONDO W	C/W & C/E
Z07	ELEVATOR #1 SHAFT - CONDO	HD	✓		CONDO W	C/W & C/E
Z08	SPARE					
Z09	ELEVATOR #2 PIT - CONDO	HD	✓		CONDO W	C/W & C/E
Z00	ELEVATOR #2 SHAFT - CONDO	HD	✓		CONDO W	C/W & C/E
Z01	SPARE					
Z02	ELEVATOR #3 PIT - CONDO	HD	✓		CONDO E	C/W & C/E
Z03	ELEVATOR #3 SHAFT - CONDO	HD	✓		CONDO E	C/W & C/E
Z04	SPARE					
Z05	ELEVATOR #4 PIT - CONDO	HD	✓		CONDO E	C/W & C/E
Z06	ELEVATOR #4 SHAFT - CONDO	HD	✓		CONDO E	C/W & C/E
Z07	SPARE					
Z08	SPARE					
Z09	ELEVATOR #1 PIT - CONDO - GARBAGE	HD	✓		CONDO E	C/W & C/E
Z00	ELEVATOR #1 SHAFT - CONDO - GARBAGE	HD	✓		CONDO E	C/W & C/E
Z01	SPARE					
Z02	ELEVATOR #1 PIT - CONDO - MOVING	HD	✓		CONDO E	C/W & C/E
Z03	ELEVATOR #1 SHAFT - CONDO - MOVING	HD	✓		CONDO E	C/W & C/E
Z04	SPARE					
Z05	ELEVATOR #3 PIT - COMM.	HD	✓		CONDO W	C/W & C/E
Z06	ELEVATOR #3 SHAFT - COMM.	HD	✓		CONDO W	C/W & C/E
Z07	SPARE					
Z08	ELEVATOR #1 PIT - COMM.	HD	✓		CONDO W	C/W & C/E
Z09	ELEVATOR #1 SHAFT - COMM.	HD	✓		CONDO W	C/W & C/E
Z00	SPARE					
Z01	ELEVATOR #3 PIT - CONDO	HD	✓		CONDO E	C/W & C/E
Z02	ELEVATOR #3 SHAFT - CONDO	HD	✓		CONDO E	C/W & C/E
Z03	SPARE					
Z04	FIRE AMPLIFIER TROUBLE			✓	CONDO W	C/W & C/E
Z05	TEL. VOICE TROUBLE			✓	CONDO W	C/W & C/E
Z06	COMMON TROUBLE			✓	CONDO W	C/W & C/E
Z07	SILENCE SWITCH			✓	CONDO W	C/W & C/E
Z08	SPRINKLER LOSS OF AIR PRESSURE			✓	CONDO W	C/W & C/E
Z09	SPRINKLER LOSS OF WATER PRESSURE			✓	CONDO W	C/W & C/E
Z00	SPRINKLER COMPRESSOR LOSS OF POWER			✓	CONDO W	C/W & C/E
Z01	SPRINKLER ROOM LOW TEMPERATURE			✓	CONDO W	C/W & C/E
Z71	JOCKEY PUMP			✓	CONDO W	C/W & C/E
Z72	PIPE TRACING PANEL FOR SPRINKLER/STAND PIPE LOSS OF POWER			✓	CONDO W	C/W & C/E
Z73	FIRE PUMP LOSS OF POWER			✓	CONDO W	C/W & C/E
Z74	FIRE PUMP RUNNING			✓	CONDO W	C/W & C/E
Z75	FIRE PUMP PHASE REVERSED			✓	CONDO W	C/W & C/E
Z76	GENERATOR LOW BATTERY			✓	CONDO E	C/W & C/E
Z77	GENERATOR RUNNING			✓	CONDO E	C/W & C/E
Z78	GENERATOR TROUBLE (COMMON)			✓	CONDO E	C/W & C/E
Z79	GENERATOR LOW GAS PRESSURE			✓	CONDO E	C/W & C/E
Z80	GENERATOR COMBUSTION AIR DAMPER FAULT			✓	CONDO E	C/W & C/E
Z81	GENERATOR VALVE MONITORING	SV	✓		CONDO E	C/W & C/E
Z82	SPARE					
Z83	SNOW MELTING PANEL (P1 LEVEL)			✓	CONDO W	C/W & C/E
Z84	SNOW MELTING PANEL (LEVEL 13 AMENITY)			✓	CONDO W	C/W & C/E
Z85	PIPE TRACING PANEL (P1 LEVEL)			✓	CONDO W	C/W & C/E
Z86	PIPE TRACING PANEL LEVEL13 AMENITY)			✓	CONDO W	C/W & C/E
Z87	MAIN STORAGE TANK - LOW LEVEL			✓	CONDO W	C/W & C/E
Z88	MAIN STORAGE TANK - WATER TEMPERATURE			✓	CONDO W	C/W & C/E
Z89	MECHANICAL ROOM CO DETECTOR			✓	CONDO W	C/W & C/E
Z90	SPARE					
Z91	MAKE-UP AIR UNIT #1 - CONDO	DMSD	✓		CONDO W	C/W & C/E
Z92	MAKE-UP AIR UNIT #1 - CONDO	DMSD	✓		CONDO W	C/W & C/E
Z93	MAKE-UP AIR UNIT #3 - CONDO	DMSD	✓		CONDO E	C/W & C/E
Z94	SPARE					
Z95	SPARE					
Z96	STAR-PRESS SFC-03 - STAR-A	DMSD	✓		CONDO W	C/W & C/E
Z97	STAR-PRESS SF-X - STAR-E	DMSD	✓		CONDO W	C/W & C/E
Z98	STAR-PRESS SFDK-01 - STAR-D	DMSD	✓		CONDO W	C/W & C/E
Z99	STAR-PRESS SFC-02 - STAR-B	DMSD	✓		CONDO E	C/W & C/E
Z00	STAR-PRESS SFC-02 - STAR-C	DMSD	✓		CONDO E	C/W & C/E
Z01	SPARE					
Z02	FILTRATION SUMP PUMP HIGH FLOAT ALARM			✓	CONDO E	C/W & C/E
Z03	SPARE					
Z04	SPARE					
Z05	SPARE					
Z06	SPARE					
Z07	SPARE					
Z08	SPARE					
Z09	SPARE					
Z10	SPARE					
Z11	SPARE					
Z12	SPARE					
Z13	SPARE					
Z14	SPARE					
Z15	SPARE					
Z16	SPARE					
Z17	SPARE					
Z18	SPARE					
Z19	SPARE					
Z20	SPARE					

REFER TO MIRENDA DRAWING SP-20 FOR COMPLETE PRESSURE SWITCH, FLOW SWITCH & SUPERVISORY VALVE SCHEDULE

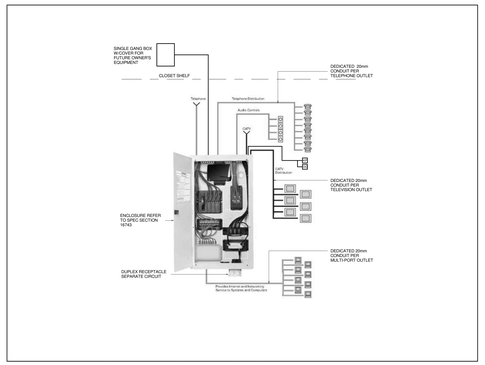
ARTSCAPE

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS ALARM	REGISTERED AS TROUBLE	INITIATE AS	DISPLAY
ZF4-1-R	U/G PARKING LEVEL P4 - ARTSCAPE BOILER ROOM (HIGH TEMP.)	FS/HD	✓		ARTSCAPE	ALL CACF
ZF4-2-A	U/G PARKING LEVEL P4 - ARTSCAPE CHILLER ROOM	FS/HD	✓		ARTSCAPE	ALL CACF
ZF0-1-A	U/G PARKING LEVEL P2 - ARTSCAPE - WEST	PS/SD/MPS	✓		ARTSCAPE	ALL CACF
ZF0-2-A	U/G PARKING LEVEL P2 - ARTSCAPE ELEVATOR LOBBY (P205)	SD	✓		ARTSCAPE	ALL CACF
ZF1-1-A	U/G PARKING LEVEL P1 - ARTSCAPE ELEVATOR ROOM (P125)	SD	✓		ARTSCAPE	ALL CACF
ZF1M-1-A	LEVEL P1M - ARTSCAPE - ELECTRICAL ROOM	SD	✓		ARTSCAPE	ALL CACF
Z1-1-A	LEVEL 1 - ARTSCAPE - ELEVATOR LOBBY	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
ZM-1-A	LEVEL 1M - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
ZM2-2-A	LEVEL 1M - ARTSCAPE - GARBAGE ROOM	SD	✓		ARTSCAPE	ALL CACF
Z2-1-A	LEVEL 2 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z2-2-A	LEVEL 2 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z3-1-A	LEVEL 3 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z3-2-A	LEVEL 3 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z4-1-A	LEVEL 4 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z4-2-A	LEVEL 4 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z5-1-A	LEVEL 5 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z5-2-A	LEVEL 5 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z6-1-A	LEVEL 6 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z6-2-A	LEVEL 6 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z7-1-A	LEVEL 7 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z7-2-A	LEVEL 7 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z8-1-A	LEVEL 8 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z8-2-A	LEVEL 8 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z9-1-A	LEVEL 9 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z9-2-A	LEVEL 9 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z10-1-A	LEVEL 10 - ARTSCAPE - ELEVATOR LOBBY	SD	✓		ARTSCAPE	ALL CACF
Z10-2-A	LEVEL 10 - ARTSCAPE - ELEVATOR MACHINE ROOM	SD	✓		ARTSCAPE	ALL CACF
Z10-3-A	LEVEL 10 - ARTSCAPE - AMENITY	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z10-4-A	LEVEL 10 - ARTSCAPE - ELECTRICAL ROOM	SD	✓		ARTSCAPE	ALL CACF
Z10-5-A	LEVEL 10 - ARTSCAPE - GENERATOR ROOM (HIGH TEMP.)	FS/HD/SD	✓		ARTSCAPE	ALL CACF
Z10-6-A	LEVEL 10 - ARTSCAPE - MECHANICAL ROOM	FS/HD	✓		ARTSCAPE	ALL CACF
Z14-A	GARBAGE CHUTE - ARTSCAPE	FS/HD	✓		ARTSCAPE	ALL CACF
Z15-A	SPARE	SD	✓		ARTSCAPE	ALL CACF
Z16-A	ELEVATOR #5 PIT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z17-A	ELEVATOR #5 SHAFT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z18-A	ELEVATOR #6 PIT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z19-A	ELEVATOR #6 SHAFT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z20-A	ELEVATOR #6 PIT - ARTSCAPE - MOVING	HD	✓		ARTSCAPE	ALL CACF
Z21-A	ELEVATOR #6 SHAFT - ARTSCAPE - MOVING	HD	✓		ARTSCAPE	ALL CACF
Z22-A	SPARE					
Z23-A	SPARE					
Z24-A	GENERATOR RUNNING			✓	ARTSCAPE	ALL CACF
Z25-A	GENERATOR TROUBLE (COMMON)			✓	ARTSCAPE	ALL CACF
Z26-A	GENERATOR LOW GAS PRESSURE			✓	ARTSCAPE	ALL CACF
Z27-A	GENERATOR COMBUSTION AIR DAMPER FAULT			✓	ARTSCAPE	ALL CACF
Z28-A	GAS METER VALVE MONITORING	SV	✓		ARTSCAPE	ALL CACF
Z29-A	SPARE			✓	ARTSCAPE	ALL CACF
Z30-A	SNOW MELTING PANEL (LEVEL 1)			✓	ARTSCAPE	ALL CACF
Z31-A	SNOW MELTING PANEL (LEVEL 13)			✓	ARTSCAPE	ALL CACF
Z32-A	PIPE TRACING PANEL (LEVEL 1)			✓	ARTSCAPE	ALL CACF
Z33-A	PIPE TRACING PANEL (LEVEL13)			✓	ARTSCAPE	ALL CACF
Z34-A	MECHANICAL ROOM CO DETECTOR			✓	ARTSCAPE	ALL CACF
Z35-A	SPARE				ARTSCAPE	ALL CACF
Z36-A	MAKE-UP AIR UNIT - ARTSCAPE	DMSD	✓		ARTSCAPE	ALL CACF
Z37-A	SPARE					
Z38-A	SPARE					
Z39-A	SPARE					
Z40-A	SPARE					
Z41-A	SPARE					
Z42-A	SPARE					
Z43-A	SPARE					
Z44-A	SPARE					
Z45-A	SPARE					
Z46-A	SPARE					
Z47-A	SPARE					
Z48-A	SPARE					
Z49-A	SPARE					
Z50-A	SPARE					

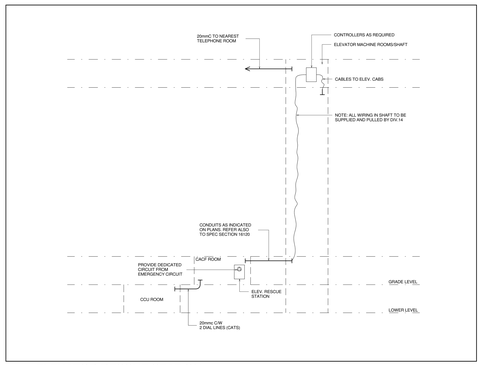
REFER TO MIRENDA DRAWING SP-20 FOR COMPLETE PRESSURE SWITCH, FLOW SWITCH & SUPERVISORY VALVE SCHEDULE

RETAIL

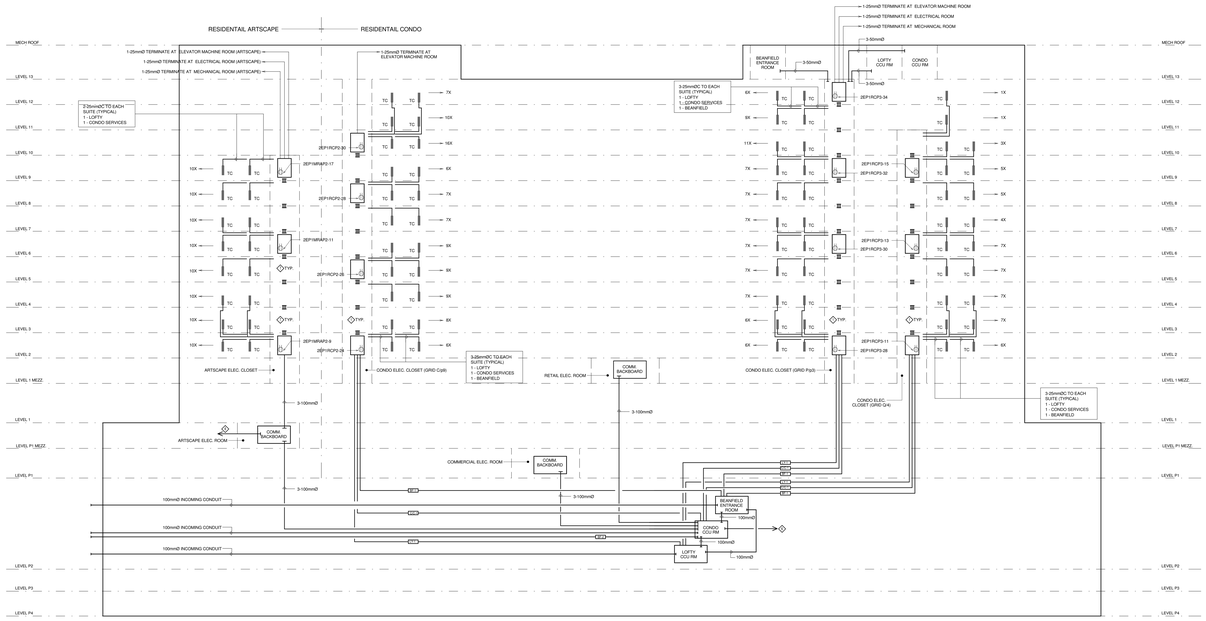
ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS ALARM	REGISTERED AS TROUBLE	INITIATE AS	DISPLAY
ZF1M-1-R	LEVEL P1M - RETAIL - CHILLER ROOM	FS/HD	✓		RETAIL	ALL CACF
Z1-1-R	LEVEL 1 - RETAIL - WEST	FS/MPS	✓		RETAIL	ALL CACF
Z1-2-R	LEVEL 1 - RETAIL - EAST	FS/MPS	✓		RETAIL	ALL CACF
Z1-3-R	LEVEL 1 - RETAIL - GARBAGE ROOM	FS/HD	✓		RETAIL	ALL CACF
Z1-4-R	LEVEL 1 - RETAIL - LOADING	PS/MPS	✓		RETAIL	ALL CACF
ZM-1-R	LEVEL 1M - RETAIL - CONDESER ROOM	FS/HD	✓		RETAIL	ALL CACF
ZM2-2-R	LEVEL 1M - RETAIL - ELECTRICAL ROOM	SD	✓		RETAIL	ALL CACF
ZM3-3-R	LEVEL 1M - RETAIL - MAKE UP AIR UNIT ROOM	FS/HD	✓		RETAIL	ALL CACF
ZM4-4-R	LEVEL 1M - RETAIL - MECHANICAL ROOM	FS/HD	✓		RETAIL	ALL CACF
Z2	MAKE-UP AIR UNIT - RETAIL	DMSD	✓		RETAIL	ALL CACF
Z	TO BE DETERMINED					
Z						
Z						
Z



3 SUITE TEL/COMMUNICATION ENCLOSURE
N.T.S



2 ELEVATOR RESCUE STATION
N.T.S



PATHWAY:

- 100mmØ CONDUIT FROM EACH RISER CLOSET TO BEANFIELD ROOM
- 100mmØ CONDUIT FROM CCU TO PROPERTY LINE
- 100mmØ CONDUIT FROM EACH RISER CLOSET TO CONDO CCU ROOM
- 100mmØ CONDUIT FROM EACH RISER CLOSET TO LOFTY CCU ROOM

NOTES:

1. IN CONDO ELECTRICAL CLOSET
   100mmØ SLEEVE FOR BEANFIELD
   100mmØ SLEEVE FOR CONDO CCU
   100mmØ SLEEVE FOR LOFTY CCU
2. ALL COMMUNICATIONS OUTLETS IN GENERAL PUBLIC AREAS SHALL RUN BACK TO THE NEAREST ACCESSIBLE CLOSET OR ELEVATOR MACHINE ROOM. ALL OUTLETS IN SUITES WITHIN A ROOM CLOSET, UNLESS NOTED OTHERWISE.
3. PROVIDE 2400mm(W) x 3660mm(H) x 19mm(D) PLYWOOD BACKBOARD.
4. THE HORIZONTAL CONDUITS SHALL BE SURFACE MOUNTED IN ORDER FOR THE SURVEYOR TO DOCUMENT THEM AND PROVIDE APPROPRIATE EASEMENTS.
5. TELECOM ENCLOSURE AS PER SPECIFICATIONS AND DETAILS.
6. PROVIDE SEPARATE 2/0 GROUND WIRES FROM MAIN GROUND BUS TO EACH COMMUNICATIONS CLOSET, ONE FOR PHONE AND ONE FOR UTILITY. MOUNT GROUND BUS ON PLYWOOD BOARD.
7. RUN ONE (1) 20mmØ CONDUIT TO EACH OF THE FOLLOWING LOCATIONS:
   - ELEVATOR MR
   - WATER METER
   - HYDRO METER (INCOMING)
   - CACF FOR ELEVATOR PHONES
   - CACF FOR ELEVATOR PHONES
   - SECURITY ROOM
   - CONDO CCU RM (ARRANGE WITH APPROPRIATE UTILITY FOR DEDICATED PHONE LINES.
8. IN ARTSCAPE ELECTRICAL CLOSET
   3-100mmØ SLEEVE FOR COMMUNICATION SYSTEM

1 COMMUNICATION RISER DIAGRAM
N.T.S.

Contractor Must Check And Verify All Dimensions On The Job.
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Date: 08/28/12

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No.	Revision	Date
1	ISSUED FOR ADD E-003	2016/01/26

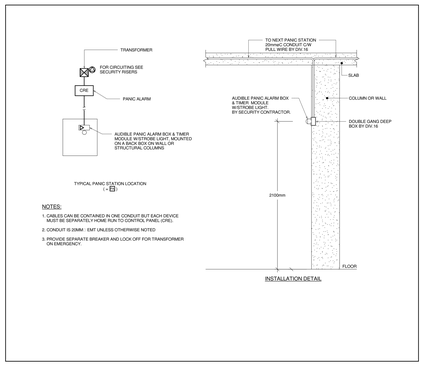
No.	Issued For	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2018-04-21
1	ISSUED FOR TENDER	2015-10-30

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
COMMUNICATION SYSTEM RISER DIAGRAM

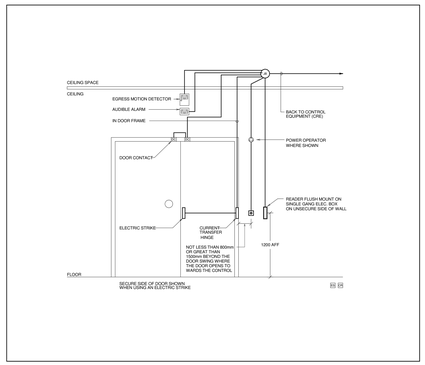
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 08/28/12
Drawing No: E4-05

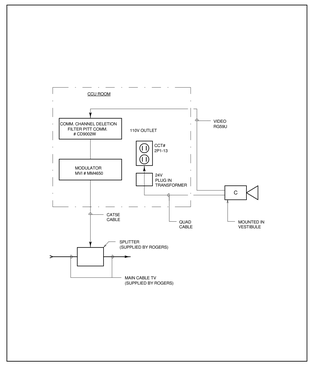


INSTALLATION DETAIL

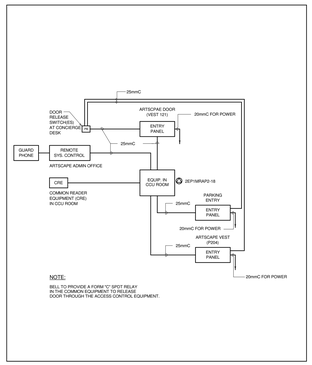
12 PANIC ALARM SYSTEM DETAILS
1 : 1



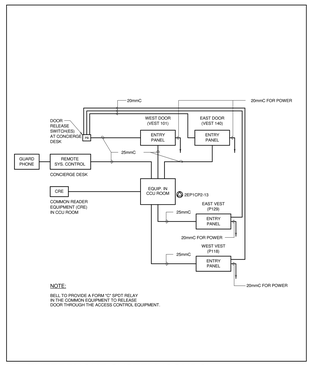
9 SECURED DOUBLE DOOR WITH ELECTRIC STRIKE
N.T.S



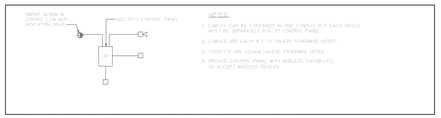
6 LOBBY CAMERA INSTALLATION
N.T.S



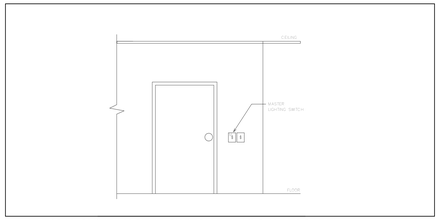
5 ENTERPHONE SYSTEM (ARTSCAPE)
N.T.S



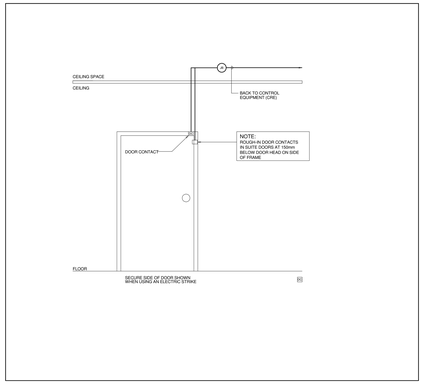
4 ENTERPHONE SYSTEM (CONDO)
N.T.S



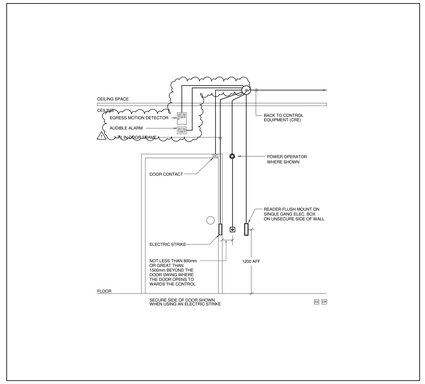
3 TYPICAL SUITE SECURITY SYSTEM (ARTSCAPE)
N.T.S



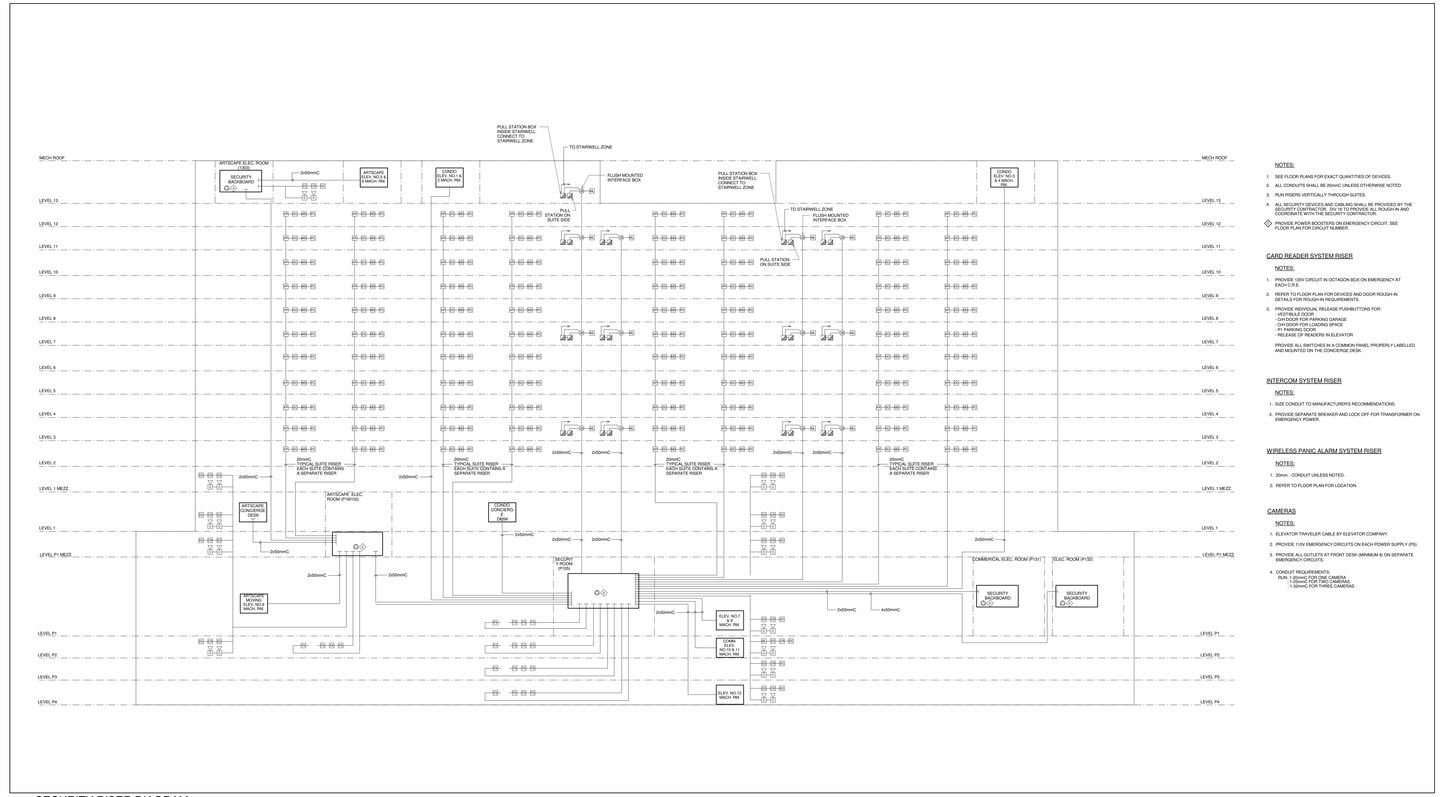
2 TYPICAL SUITE MASTER SWITCH DETAILS (ARTSCAPE)
N.T.S



11 SECURED SINGLE DOOR WITH DOOR CONTACT
N.T.S



8 SECURED SINGLE DOOR WITH ELECTRIC STRIKE
N.T.S



NOTES:

1. SEE FLOOR PLANS FOR EXACT QUANTITIES OF DEVICES.
2. ALL CONDUITS SHALL BE 25mmC UNLESS OTHERWISE NOTED.
3. RUN RISERS VERTICALLY THROUGH SUITES.
4. ALL SECURITY DEVICES AND CABLING SHALL BE PROVIDED BY THE SECURITY CONTRACTOR. PROVIDE ROUGH-IN AND COORDINATE WITH THE SECURITY CONTRACTOR.

◇ PROVIDE POWER BOOSTERS ON EMERGENCY CIRCUIT. SEE FLOOR PLAN FOR CIRCUIT NUMBER.

CARD READER SYSTEM RISER

NOTES:

1. PROVIDE 120V CIRCUIT IN OCTAGON BOX ON EMERGENCY AT EACH C.R.E.
2. REFER TO FLOOR PLAN FOR DEVICES AND DOOR ROUGH-IN DETAILS FOR ROUGH-IN REQUIREMENTS.
3. PROVIDE INDIVIDUAL RELEASE PUSHBUTTONS FOR:
   - VESTIBULE DOOR
   - DH DOOR FOR PARKING GARAGE
   - DH DOOR FOR LOADING SPACE
   - P1 PARKING DOOR
   - RELEASE OF READERS IN ELEVATOR

   PROVIDE ALL SWITCHES IN A COMMON PANEL PROPERLY LABELLED AND MOUNTED ON THE CONCIERGE DESK.

INTERCOM SYSTEM RISER

NOTES:

1. SIZE CONDUIT TO MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE SEPARATE BREAKER AND LOCK OFF FOR TRANSFORMER ON EMERGENCY POWER.

WIRELESS PANIC ALARM SYSTEM RISER

NOTES:

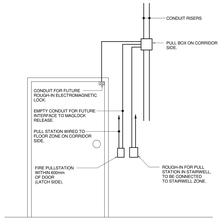
1. 25mm - CONDUIT UNLESS NOTED.
2. REFER TO FLOOR PLAN FOR LOCATION.

CAMERAS

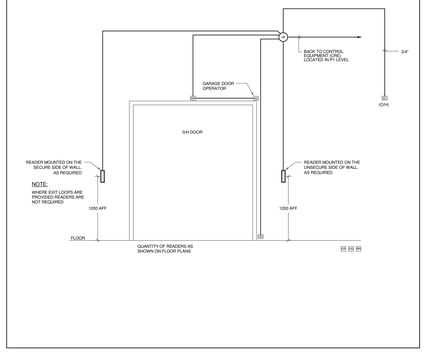
NOTES:

1. ELEVATOR TRAVELER CABLE BY ELEVATOR COMPANY.
2. PROVIDE 110V EMERGENCY CIRCUITS ON EACH POWER SUPPLY (PS).
3. PROVIDE ALL OUTLETS AT FRONT DESK (MINIMUM 6) ON SEPARATE EMERGENCY CIRCUITS.
4. CONDUIT REQUIREMENTS:
   RUN - 1-25mmC FOR ONE CAMERA
   - 1-25mmC FOR TWO CAMERAS
   - 1-50mmC FOR THREE CAMERAS

1 SECURITY RISER DIAGRAM
N.T.S



10 ROUGH-IN REQUIREMENTS AT CROSS-OVER DOOR LOCATION
N.T.S



7 SECURED OVERHEAD GARAGE DOOR
N.T.S

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Date: 03/09/15

D. C. M. BELLAMY
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Toronto Vancouver Windsor Moncton Ottawa Halifax
Dauphin Kitchener Trail Saint John

No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-04-21
1	ISSUED FOR TENDER	2015-10-30
1	ISSUED FOR CONSTRUCTION	2016-04-21

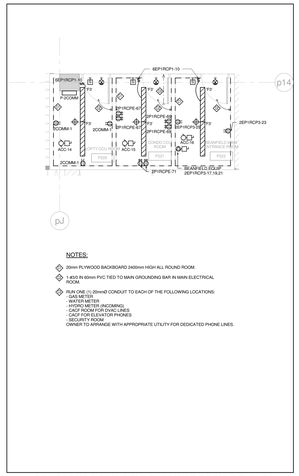
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
SECURITY RISER DIAGRAM & DETAILS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale: N.T.S
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 03/09/15
Drawing No: E4-06

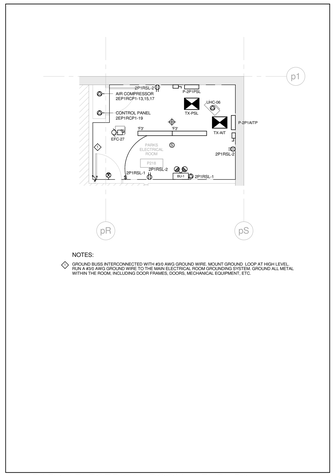


NOTES:

1. 20mm PLYWOOD BACKBOARD 2400mm HIGH ALL ROUND ROOM.
2. 1.#00 tin 63mm PVC TIED TO MAIN GROUNDING BAR IN MAIN ELECTRICAL ROOM.
3. RUN ONE (1) 20mm⌀ CONDUIT TO EACH OF THE FOLLOWING LOCATIONS:
   - GAS METER
   - HYDRO METER
   - HYDRO METER (INCOMING)
   - CACP ROOM FOR DVAC LINES
   - CACP ROOM FOR PHONES
   - SECURITY ROOM

   OWNER TO ARRANGE WITH APPROPRIATE UTILITY FOR DEDICATED PHONE LINES.

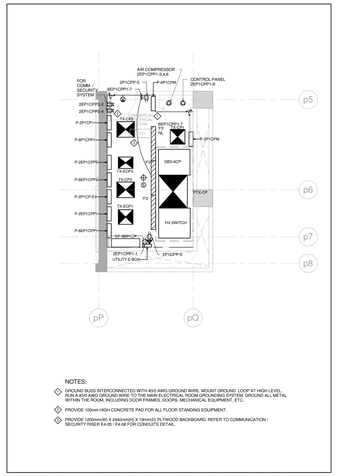
13 CCU ROOMS & BEANFIELD ENTRANCE ROOM - LEVEL P2
1 : 50



NOTES:

1. GROUND BUSS INTERCONNECTED WITH #10 AWG GROUND WIRE. MOUNT GROUND. LOOP AT HIGH LEVEL. RUN A #10 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.

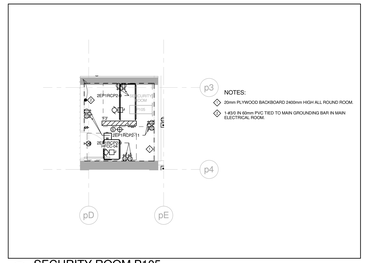
11 PARKS ELECTRICAL ROOM - LEVEL P2
1 : 50



NOTES:

1. GROUND BUSS INTERCONNECTED WITH #10 AWG GROUND WIRE. MOUNT GROUND. LOOP AT HIGH LEVEL. RUN A #10 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
2. PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
3. PROVIDE 1200mm(W) X 2440mm(H) X 19mm(D) PLYWOOD BACKBOARD. REFER TO COMMUNICATION / SECURITY RISER E4-05 / E4-06 FOR CONDUITS DETAIL.

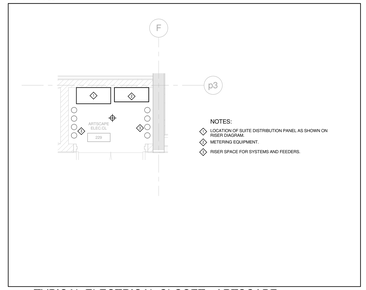
10 COMMERCIAL ELECTRICAL ROOM - LEVEL P1
1 : 50



NOTES:

1. 20mm PLYWOOD BACKBOARD 2400mm HIGH ALL ROUND ROOM.
2. 1.#00 tin 63mm PVC TIED TO MAIN GROUNDING BAR IN MAIN ELECTRICAL ROOM.

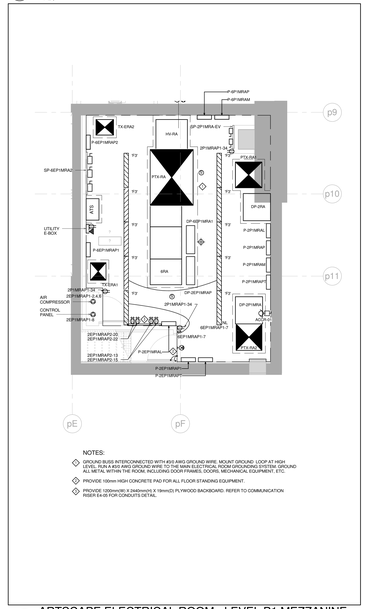
9 SECURITY ROOM P105
1 : 50



NOTES:

1. LOCATION OF SUITE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
2. METERING EQUIPMENT.
3. RISER SPACE FOR SYSTEMS AND FEEDERS.

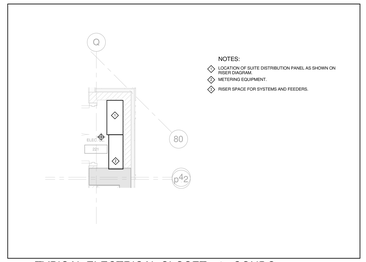
8 TYPICAL ELECTRICAL CLOSET - ARTSCAPE
1 : 25



NOTES:

1. GROUND BUSS INTERCONNECTED WITH #10 AWG GROUND WIRE. MOUNT GROUND. LOOP AT HIGH LEVEL. RUN A #10 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
2. PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
3. PROVIDE 1200mm(W) X 2440mm(H) X 19mm(D) PLYWOOD BACKBOARD. REFER TO COMMUNICATION / RISER E4-05 FOR CONDUITS DETAIL.

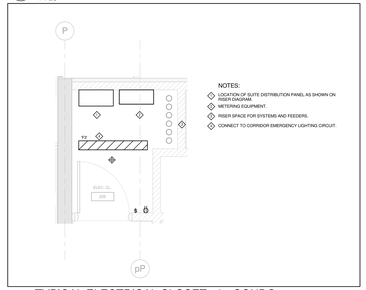
7 ARTSCAPE ELECTRICAL ROOM - LEVEL P1 MEZZANINE
1 : 50



NOTES:

1. LOCATION OF SUITE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
2. METERING EQUIPMENT.
3. RISER SPACE FOR SYSTEMS AND FEEDERS.

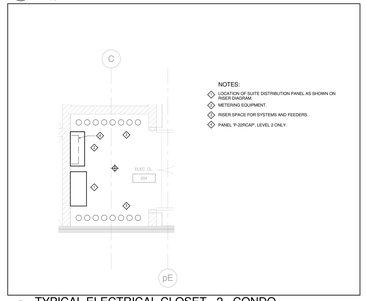
6 TYPICAL ELECTRICAL CLOSET - 4 - CONDO
1 : 25



NOTES:

1. LOCATION OF SUITE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
2. METERING EQUIPMENT.
3. RISER SPACE FOR SYSTEMS AND FEEDERS.
4. CONNECT TO CORRIDOR EMERGENCY LIGHTING CIRCUIT.

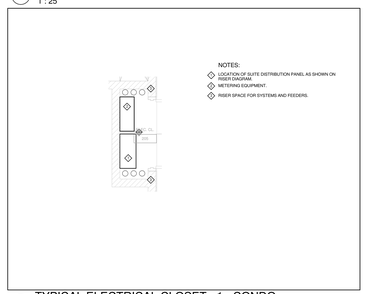
5 TYPICAL ELECTRICAL CLOSET - 3 - CONDO
1 : 25



NOTES:

1. LOCATION OF SUITE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
2. METERING EQUIPMENT.
3. RISER SPACE FOR SYSTEMS AND FEEDERS.
4. PANEL 'P-22RCAP', LEVEL 2 ONLY.

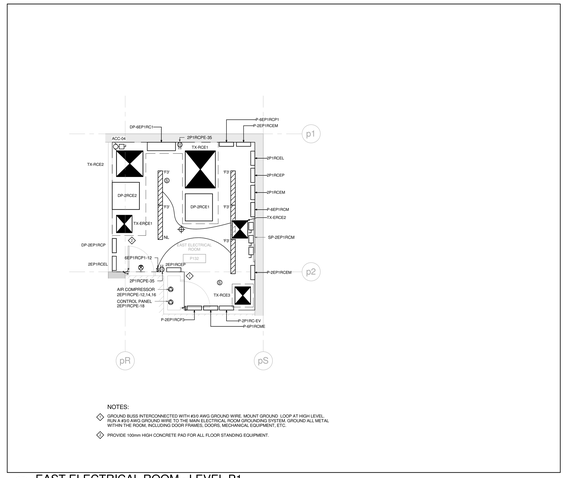
4 TYPICAL ELECTRICAL CLOSET - 2 - CONDO
1 : 25



NOTES:

1. LOCATION OF SUITE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
2. METERING EQUIPMENT.
3. RISER SPACE FOR SYSTEMS AND FEEDERS.

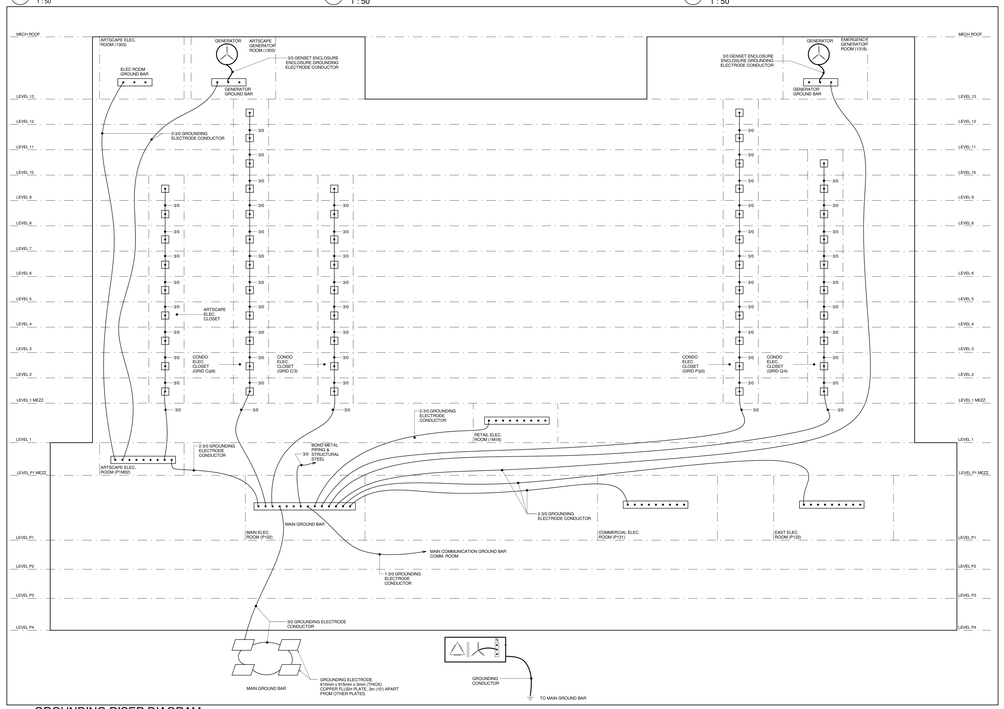
3 TYPICAL ELECTRICAL CLOSET - 1 - CONDO
1 : 25



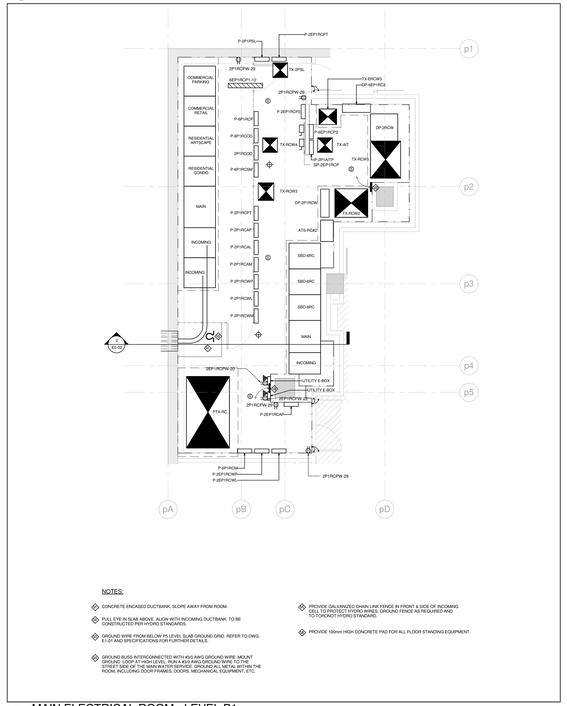
NOTES:

1. GROUND BUSS INTERCONNECTED WITH #10 AWG GROUND WIRE. MOUNT GROUND. LOOP AT HIGH LEVEL. RUN A #10 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
2. PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.

2 EAST ELECTRICAL ROOM - LEVEL P1
1 : 50



12 GROUNDING RISER DIAGRAM
N.T.S



NOTES:

1. CONCRETE ENCASED DUCTBANK, SLOPE AWAY FROM ROOM.
2. PULL EYE IN SLAB ABOVE. ALIGN WITH INCOMING DUCTBANK. TO BE CONSTRUCTED PER HYDRO STANDARDS.
3. GROUND WIRE FROM BELOW PB LEVEL SLAB GROUND GRID. REFER TO DWG. E1-01 AND SPECIFICATIONS FOR FURTHER DETAILS.
4. GROUND BUSS INTERCONNECTED WITH #10 AWG GROUND WIRE. MOUNT GROUND. LOOP AT HIGH LEVEL. RUN A #10 AWG GROUND WIRE TO THE STREET SIDE OF THE MAIN WATER SERVICE. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
5. PROVIDE GALVANIZED CHAIN LINK FENCE IN FRONT & SIDE OF INCOMING CELL TO PROTECT HYDRO WIRES. GROUND FENCE AS REQUIRED AND TO TURNOVER HYDRO STANDARDS.
6. PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.

1 MAIN ELECTRICAL ROOM - LEVEL P1
1 : 50

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Date: 08/06/15

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No.	Revision	Date
1	ISSUED FOR ADD E-002	2016/01/08
2	ISSUED FOR ADD E-003	2016/01/25
4		
3		
2	ISSUED FOR CONSTRUCTION	2018-04-21
1	ISSUED FOR TENDER	2015-10-16

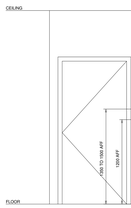
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

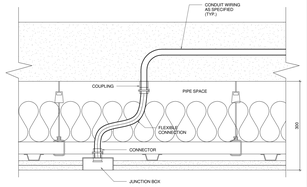
Drawing Title
ELECTRICAL ROOM DETAIL - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

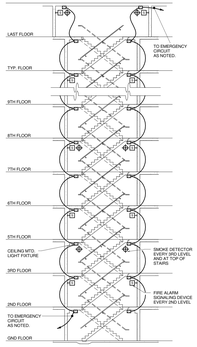
Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 08/06/15
Drawing No: E5-01



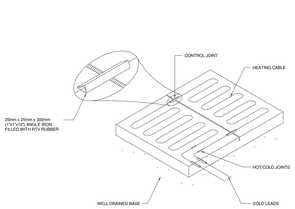
11 TYPICAL DEVICE MOUNTING DETAIL AT STAIR EXIT DOORS
N.T.S.



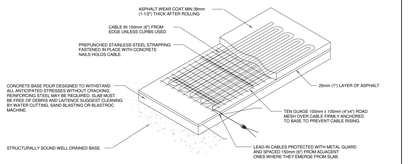
12 ELECTRICAL CONDUIT INSTALLATION DETAIL & SUSPENDED ACOUSTIC CEILIGN
N.T.S.



7 TYPICAL SCISSOR STAIR
N.T.S.



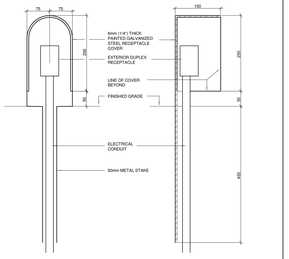
3 HEATING CABLE DETAIL - CONCRETE SLAB AT CONTROL JOINT
N.T.S.



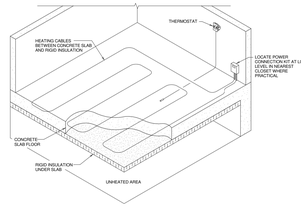
NOTES

1. LEAD-IN CABLE SHOULD BE TERMINATED IN A JUNCTION BOX ABOVE GRADE LEVEL TO PREVENT MOISTURE FROM ENTERING THE BOX.
2. CARE MUST BE TAKEN NOT TO DAMAGE CABLE WITH RAKES, SHOVELS, WHEELBARROWS, ETC.
3. IF WEAR COURSE IS TO BE MACHINE LAID, USE PNEUMATIC TIRED EQUIPMENT.

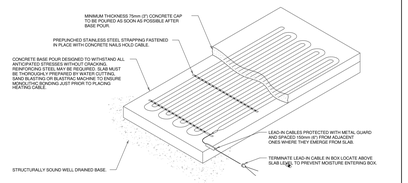
1 HEATING CABLE DETAIL - SNOW MELTING IN ASPHALT WITH CONCRETE BASE
N.T.S.



10 LANDSCAPE AREA RECEPTACLE
N.T.S.



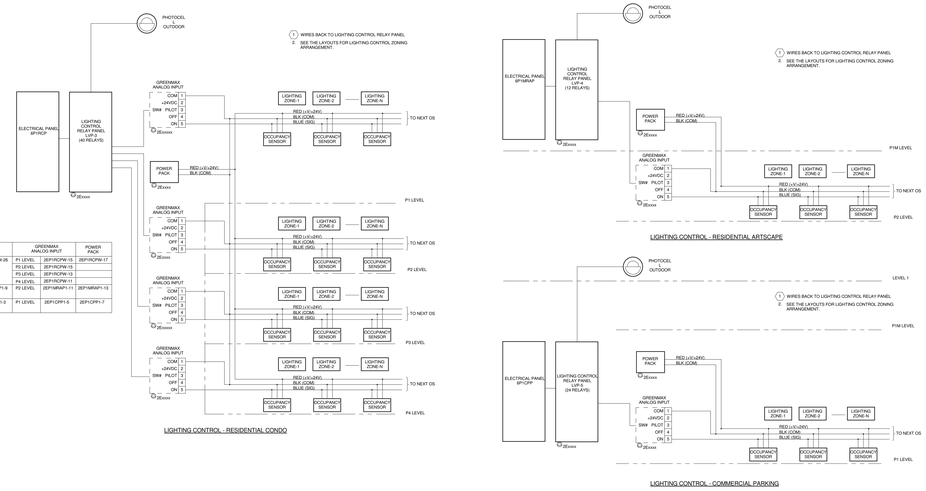
4 TYPE 'B' - HEATING CABLES UNDER SLAB DETAIL
N.T.S.



NOTES

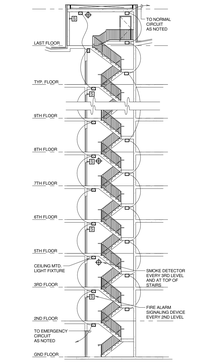
1. MAXIMUM SLAB AREA WITHOUT CONTROL OR EXPANSION JOINTS RECOMMENDED FOR A HEATING INSTALLATION 37 SQ.m (400 SQ. FT)., NO GREATER THAN 6m (20 FT.) IN ANY ONE DIRECTION.
2. CARE SHALL BE TAKEN NOT TO DAMAGE CABLE WITH RAKES, SHOVELS, WHEELBARROWS, ETC.

2 HEATING CABLE DETAIL - SNOW MELTING IN CONCRETE (TWO POUR METHOD)
N.T.S.

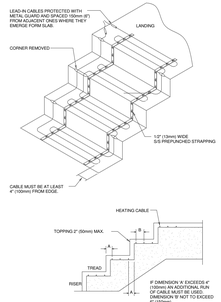


	ELECTRICAL LIGHTING PANEL	LOW VOLTAGE PANEL	GREENMAX ANALOG INPUT		POWER PACK
RESIDENTIAL CONDO	6P/RCP	LVP-3	2EP1/RCPW-26	P1 LEVEL	2EP1/RCPW-15
				P2 LEVEL	2EP1/RCPW-15
				P3 LEVEL	2EP1/RCPW-13
				P4 LEVEL	2EP1/RCPW-11
RESIDENTIAL ARTSCAPE	6P/MBAP	LVP-4	2EP1/MBAP1-9	P2 LEVEL	2EP1/MBAP1-11
COMMERCIAL PARKING	6P	LVP-5	2EP1/CPP1-3	P1 LEVEL	2EP1/CPP1-5

8 LIGHTING CONTROL - PARKING AREA RISER DIAGRAM
N.T.S.



6 TYPICAL CROSS OVER STAIR
N.T.S.



NOTE

WHEN USING THE TWO POUR METHOD, BASE SLAB MUST BE CLEAN, WETTED AND THEN COATED WITH A CEMENT SLURRY. SLURRY MUST NOT DRY BEFORE TOP CAP IS POURED.

5 HEATING CABLE DETAIL - SNOW MELTING CABLE LAYOUT ON STAIRS
N.T.S.

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Date: 03/06/15

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Dauphin Kelowna Trail Saint John

No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/15
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-05
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

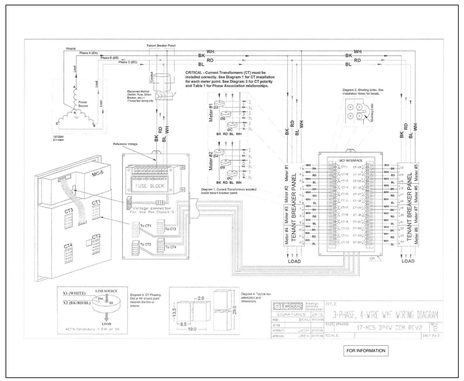
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

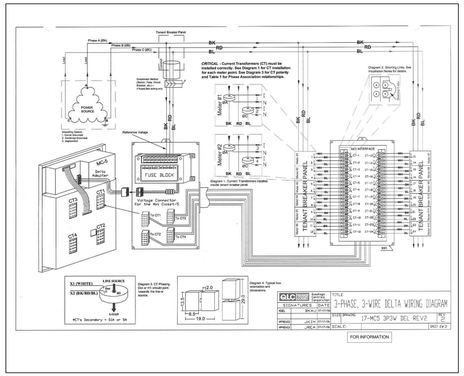
Drawing Title
MISCELLANEOUS
DETAILS - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON.

Scale N.T.S.
Drawn by Author
Checked by Checker
Project No. 8489D
Date 03/06/15
Drawing No. E5-02



8 QUADLOGIC 3 PHASE 4 WIRE 120/208V WIRING DIAGRAM
N.T.S



7 QUADLOGIC 3 PHASE 3 WIRE 120/208V WIRING DIAGRAM
N.T.S

INSTALLATION NOTES

Applicable for the following catalog numbers*:

45-MC5 480V 0/1A 12C (2EL/12M 480V DEL 3P3W)
45-MC5 480V CL10 12C (2EL/12M 480V DEL 3P3W)
45-MC5 208V 0/1A 12C (2EL/12M 208V DEL 3P3W)
45-MC5 208V CL10 12C (2EL/12M 208V DEL 3P3W)

*These instructions are also applicable when the same meter model number has the suffix: -E, -P or EP.

CRITICAL: The installation of the current transformer must be correct or the meter will not read properly. The load-current carrying wires must pass through the CT in the correct orientation, and the CT wires must be connected to the proper MCI screw terminals. Please see wiring diagram for reference.

Current transformers (CTs) are used to measure the current drawn by the loads to be metered. Within the meter, the current exiting from the CT is combined with the voltage reading for the correct voltage phase to calculate the energy reading. CTs must be in phase with the reference voltage. The MCI inputs are each associated with a particular voltage phase in an A-C order. Input 1 is a phase A-CT, input 2 is a phase C CT, input 3 is a phase A CT, input 4 is a phase C CT, and so on in A-C-A-C order.

For example, a CT which measures a load supplied by phase A must be installed on CT1, CT3, CT5, etc.. Current transformers which measure a load supplied by phase C must be installed on CT2, CT4, CT6, etc..

1. For the catalog numbers specified above, each A-C combination is a single meter point (see Table 1 for full listing):
   - Meter #1 (MM1) is CT1 and CT2
   - Meter #2 (MM2) is CT3 and CT4
   - repeat for MM3 to MM12
2. After completing all CT terminations, connect the four (4) current connectors and then remove the the twenty-four (24) shorting links.
3. Follow local codes for installation requirement, e.g. conduit, fused disconnect, distance, and wiring.
4. Installation of 0.1A inputs and CL10 or 5A inputs are the same.

CAUTION: If breakers are energized, shorting links must be installed before:

a) disconnecting the CT headers or
b) replacing or installing meter heads on the panel.

WARNING: Bodily injury or damage may result if shorting links are not installed.

Meter # (MM)	MCI Board CT #	Reference Voltage Phase
1	1	A
	2	C
2	3	A
	4	C
3	5	A
	6	C
4	7	A
	8	C
5	9	A
	10	C
6	11	A
	12	C
7	13	A
	14	C
8	15	A
	16	C
9	17	A
	18	C
10	19	A
	20	C
11	21	A
	22	C
12	23	A
	24	C

Table 1. Phase Association Table

TITLE: 3-PHASE, 3-WIRE DELTA WIRING DIAGRAM
17-MC5 3P3W DEL REV2
FOR INFORMATION

6 QUADLOGIC 3 PHASE 3 WIRE 120/208V WIRING DIAGRAM - INSTALLATION NOTES
N.T.S

Project: Aquavista
Electrical Metering Schedule
Revised December 18, 2015

Item #	Tag	Description	Size (Amps)	Voltage	Pole/Phase	Panel Location	Type	Purpose	Drawing Reference	Qty	Equipment Required
1	DMC-01	Condo 3 Phase Chiller CHU-01	100	347/600V, 3ph, 4w	3P/N/G	Main Particular Electrical Room	MC-6-CT4	New Building	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-0/1A SEL 4000 Meter Head
2	DMC-02	Condo AC Compressor	100					Cooling	20-A0-006	1	
3	DMC-03	Condo AC Condenser	100					Cooling	20-A0-006	1	
4	DMC-04	Condo AC Blower	100					Cooling	20-A0-006	1	
5	DMC-05	EP-RCDE (Mechanical Equipment - Unit 2 Janitor Room) Entrance Duct Heater-RCDEcoil Fan	20			P-1 Electrical Room Main Tower		New Building	20-A0-006	1	6 metering packs 1-MC-6C (6-CT3, 6-CT4), 6-0/1A SEL 4000 Meter Head
6	DMC-06	EP-RCDHU (Mechanical Equipment)	20					New Building	20-A0-006	1	
7	DMC-07	EP-RCEC (Green Lighting)	10					New Building	20-A0-006	1	
8	DMC-08	EP-RCEM (Drive Mot)	20					Cooling	20-A0-006	1	
9	DMC-09	EP-RCF (Lighting and electrical)	20					New Building	20-A0-006	1	
10	DMC-10	EDH Boiler Pump PC-DU-PC-B	15					New Building	20-A0-006	1	
11	DMC-11	Condo #12	10	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	Socket Meter	1Metering Pack, 1-LC-2 Socket Meter	20-A0-006	1	
12	DMC-12	Condensed Water Pump PC-E-1-PC-E2	100					New Building	20-A0-006	1	6 metering packs 1-MC-6C (6-CT3, 6-CT4), 6-0/1A SEL 4000 Meter Head
13	DMC-13	Chilled Water Pump PC-G-G-PC-H	100					New Building	20-A0-006	1	
14	DMC-14	Boiler #1 Pump PC-F	15					New Building	20-A0-006	1	
15	DMC-15	Boiler #2 Pump PC-F	15					New Building	20-A0-006	1	
16	DMC-16	Boiler #3 Pump PC-F	15					New Building	20-A0-006	1	
17	DMC-17	Boiler #4 Pump PC-F	15					New Building	20-A0-006	1	
18	DMC-18	Boiler #5 Pump PC-F	15					New Building	20-A0-006	1	
19	DMC-19	DHW Heating Secondary Pumps PC-G-PC-GH	20					New Building	20-A0-006	1	
20	DMC-20	Boiler #1 Pump PC-B	15					New Building	20-A0-006	1	
21	DMC-21	Boiler #2 Pump PC-B	15					New Building	20-A0-006	1	
22	DMC-22	Hot Pump PC-C	15					New Building	20-A0-006	1	
23	DMC-23	High Temp Secondary Pumps PC-D-PC-DE	20					New Building	20-A0-006	1	6 metering packs 1-MC-6C (6-CT3, 6-CT4), 6-0/1A SEL 4000 Meter Head
24	DMC-24	Cooling Heating Pump Pump PC-E-PC-EF	15					New Building	20-A0-006	1	
25	DMC-25	Boiler #1 Pump PC-A	15					New Building	20-A0-006	1	
26	DMC-26	High Temp Secondary Pumps PC-F-PC-FG	20					New Building	20-A0-006	1	
27	DMC-27	DHW Heating Secondary Pump PC-G-PC-G	15					New Building	20-A0-006	1	
28	DMC-28	DHW Recirculation Pump PC-H	15					New Building	20-A0-006	1	
29	DMC-29	DHW Recirculation Pump PC-H	15					New Building	20-A0-006	1	
30	DMC-30	DHW Recirculation Pump PC-H	15					New Building	20-A0-006	1	
31	DMC-31	Condo #13	10					New Building	20-A0-006	1	
32	DMC-32	Condo #14	10					New Building	20-A0-006	1	
33	DMC-33	Condo #15	10					New Building	20-A0-006	1	
34	DMC-34	Condo #16	10					New Building	20-A0-006	1	
35	DMC-35	Condo #17	10					New Building	20-A0-006	1	
36	DMC-36	Condo #18	10					New Building	20-A0-006	1	
37	DMC-37	Condo #19	10					New Building	20-A0-006	1	
38	DMC-38	Condo #20	10					New Building	20-A0-006	1	
39	DMC-39	Condo #21	10					New Building	20-A0-006	1	
40	DMC-40	Condo #22	10					New Building	20-A0-006	1	
41	DMC-41	TV-CATV (Lighting + Misc Mechanical)	20	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Misc	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-0/1A SEL 4000 Meter Head
42	DMC-42	EP-RDEW(2) (Dressers & Ath)	20					Misc	20-A0-006	1	
43	DMC-43	EP-RDEW(3) (Dressers & Ath)	20					Misc	20-A0-006	1	
44	DMC-44	EP-RDFC(Misc Mechanical Equipment)	30					Misc	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-0/1A SEL 4000 Meter Head
45	DMC-45	EP-RDE (Exercise Room)	20					Cooling	20-A0-006	1	
46	DMC-46	EP-RCFC (Exercise Parking)	10					Cooling	20-A0-006	1	
47	DMC-47	EP-RMCE (Misc Mechanical Equipment)	30					Misc	20-A0-006	1	
48	DMC-48	Domestic Booster Pump PC-F	15	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	New Building	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-0/1A SEL 4000 Meter Head
49	DMC-49	DHW Heating Pump PC-DU-PC-B	20					New Building	20-A0-006	1	
50	DMC-50	Boiler #1 Pump PC-B	15					New Building	20-A0-006	1	
51	DMC-51	Circuit 1-N-N-15 (Elevator P1-DT-L1)	5	600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	New Building	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-0/1A SEL 4000 Meter Head
52	DMC-52	Circuit 2-D-D-D-D (Elevator P1-DT-L2)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
53	DMC-53	Circuit 3-D-D-D-D (Elevator P1-DT-L3)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
54	DMC-54	Circuit 4-D-D-D-D (Elevator P1-DT-L4)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
55	DMC-55	Circuit 5-D-D-D-D (Elevator P1-DT-L5)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
56	DMC-56	Circuit 6-D-D-D-D (Elevator P1-DT-L6)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
57	DMC-57	Circuit 7-D-D-D-D (Elevator P1-DT-L7)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
58	DMC-58	Circuit 8-D-D-D-D (Elevator P1-DT-L8)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
59	DMC-59	Circuit 9-D-D-D-D (Elevator P1-DT-L9)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
60	DMC-60	Circuit 10-D-D-D-D (Elevator P1-DT-L10)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
61	DMC-61	Circuit 11-D-D-D-D (Elevator P1-DT-L11)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
62	DMC-62	Circuit 12-D-D-D-D (Elevator P1-DT-L12)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
63	DMC-63	Circuit 13-D-D-D-D (Elevator P1-DT-L13)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
64	DMC-64	Circuit 14-D-D-D-D (Elevator P1-DT-L14)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
65	DMC-65	Circuit 15-D-D-D-D (Elevator P1-DT-L15)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
66	DMC-66	Circuit 16-D-D-D-D (Elevator P1-DT-L16)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
67	DMC-67	Circuit 17-D-D-D-D (Elevator P1-DT-L17)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
68	DMC-68	Circuit 18-D-D-D-D (Elevator P1-DT-L18)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
69	DMC-69	Circuit 19-D-D-D-D (Elevator P1-DT-L19)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
70	DMC-70	Circuit 20-D-D-D-D (Elevator P1-DT-L20)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
71	DMC-71	Circuit 21-D-D-D-D (Elevator P1-DT-L21)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
72	DMC-72	Circuit 22-D-D-D-D (Elevator P1-DT-L22)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
73	DMC-73	Circuit 23-D-D-D-D (Elevator P1-DT-L23)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
74	DMC-74	Circuit 24-D-D-D-D (Elevator P1-DT-L24)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
75	DMC-75	Circuit 25-Elev Lower Pit + Light Switch N-T1	5	120/208, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	Socket Meter	Cost Sharing (Units 1-12)	20-A0-006	1	1-LC-2 Socket Meter 120/208V
76	DMC-76	Circuit 1 (Elevator P1-Lighting)	5	120/208, 3ph, 4w	3P/N/G	Level 1 Main Electrical Room (100)	MC-6-CT4	Cost Sharing (Units 1-12)	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-1-W-3W (Converted 10), 120/208V Meter Head
77	DMC-77	Circuit 2 (Elevator P1-Power)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
78	DMC-78	Circuit 3 (Elevator P1-Controller)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
79	DMC-79	Circuit 4 (Elevator 2nd/PH Lighting)	5					Cost Sharing (Units 1-12)	20-A0-006	1	
80	DMC-80	Circuit 1-Suite #1004 Lighting	20	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Cost Sharing (Units 1-12) 1-3-4-5-12(3)	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-1-W-3W (Converted 10), 347/600V Meter Head
81	DMC-81	Circuit 2-Suite #1004 Lighting	20					Cost Sharing (Units 1-12) 1-3-5-6	20-A0-006	1	
82	DMC-82	Circuit 3-Suite #1004 Lighting	20					Cost Sharing (Units 1-12) 1-3-5-7	20-A0-006	1	
83	DMC-83	Circuit 4-Suite #1004 Lighting	20					Cost Sharing (Units 1-12) 1-3-5-8	20-A0-006	1	
84	DMC-84	Circuit 1-1 Mail Corridor Main Room Lighting	20					Cost Sharing (Units 1-12)	20-A0-006	1	
85	DMC-85	Circuit 10-2-1 Parking Ramp Lighting	20					Cost Sharing (Units 1-12)	20-A0-006	1	
86	DMC-86	Circuit 1-Suite #1004 Lighting	20	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Cost Sharing (Units 1-12) 1-3-4-5-12(3)	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-1-W-3W (Converted 10), 347/600V Meter Head
87	DMC-87	Circuit 2-Suite #1004 Lighting	20					Cost Sharing (Units 1-12) 1-3-5-6	20-A0-006	1	
88	DMC-88	Circuit 3-Suite #1004 Lighting	20					Cost Sharing (Units 1-12) 1-3-5-7	20-A0-006	1	
89	DMC-89	Circuit 4-Suite #1004 Lighting	20					Cost Sharing (Units 1-12) 1-3-5-8	20-A0-006	1	
90	DMC-90	Circuit 1-2 Mail Corridor Main Room Lighting	20					Cost Sharing (Units 1-12)	20-A0-006	1	
91	DMC-91	Circuit 10-2-2 Parking Ramp Lighting	20					Cost Sharing (Units 1-12)	20-A0-006	1	
92	DMC-92	Circuit 8-(1)-(1) Overhead Door Garage	20	120/208, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Cost Sharing (Units 1-12)	20-A0-006	1	1-LC-2 Socket Meter 120/208V
93	DMC-93	Circuit 8-(4) Pit Elev Sump/Ejector & Dbell	15	120/208, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Cost Sharing (Units 1-12)	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-1-W-3W (Converted 10), 120/208V Meter Head
94	DMC-94	Circuit 8-(5)-(6) (1) Gutter Leaping Garbage Door	20					Cost Sharing (Units 1-12)	20-A0-006	1	

Project: Aquavista
Electrical Metering Schedule
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Item #	Tag	Description	Size (Amps)	Voltage	Pole/Phase	Panel Location	Type	Purpose	Drawing Reference	Qty	Equipment Required
95	DMC-95	TV-FT (Misc Pass-Thru Panel)	20	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Misc	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-0/1A SEL 4000 Meter Head
96	DMC-96	TV-FSL (Private Stream Lighting)	20					Cost Sharing*	20-A0-006	1	
97	DMC-97	Heater Meter CHR-01	20					New Building	20-A0-006	1	
98	DMC-98	EP-RCWF (Lighting & Some Meter)	20					Subtract TV-FSL-Ref Lighting (TV-FSL)	20-A0-006	1	
99	DMC-99	TV-FW	20					Subtractive	20-A0-006	1	
100	DMC-100	HVAC/Misc (Misc Mech Equipment)	20					Misc	20-A0-006	1	
101	DMC-101	Meter Meter for Ath/Mech-01	20					Misc	20-A0-006	1	
102	DMC-102	Meter Exercise Meter Pump Ath (CHR-01)	20					New Building	20-A0-006	1	
103	DMC-103	Meter Chiller Meter Pump PH-01-Ath-PH-01	20					New Building	20-A0-006	1	
104	DMC-104	Meter Meter of Pump	15	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	New Building	20-A0-006	1	1-LC-2 Socket Meter 120/208V
105	DMC-105	Meter Meter of Pump	15					New Building	20-A0-006	1	
106	DMC-106	Meter Meter Pump Secondary Pumps PH-01-P-PH-06	20					New Building	20-A0-006	1	
107	DMC-107	Meter Meter Pump Secondary Pumps PH-01-P-PH-10	15					New Building	20-A0-006	1	
108	DMC-108	Meter Meter Pump Secondary Pumps PH-01-P-PH-11	15					New Building	20-A0-006	1	
109	DMC-109	Circuit 1-Lighting for Elevator Lobby Meter Co	20	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Cost Sharing (Units 1-6)	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-1-W-3W (Converted 10), 347/600V Meter Head
110	DMC-110	Circuit 2-DHW (Meter 3) Pump, Fans	15					Cost Sharing (Units 1-6)	20-A0-006	1	
111	DMC-111	Circuit 3-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
112	DMC-112	Circuit 4-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
113	DMC-113	Circuit 5-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
114	DMC-114	Circuit 6-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
115	DMC-115	Circuit 1-Suite #1004 Lighting	20	120/208, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	Socket Meter	Cost Sharing (Units 1-6)	20-A0-006	1	1-LC-2 Socket Meter 120/208V
116	DMC-116	Circuit 2-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
117	DMC-117	Circuit 3-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
118	DMC-118	Circuit 4-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
119	DMC-119	Circuit 1-Suite #1004 Lighting	20	120/208, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	Socket Meter	Cost Sharing (Units 1-6)	20-A0-006	1	1-LC-2 Socket Meter 120/208V
120	DMC-120	Circuit 2-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
121	DMC-121	Circuit 3-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
122	DMC-122	Circuit 4-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
123	DMC-123	Circuit 1-Suite #1004 Lighting	20	120/208, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	Socket Meter	Cost Sharing (Units 1-6)	20-A0-006	1	1-LC-2 Socket Meter 120/208V
124	DMC-124	Circuit 2-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
125	DMC-125	Circuit 3-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
126	DMC-126	Circuit 4-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
127	DMC-127	Circuit 1-Lighting for Elevator Lobby Meter Co	20	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Cost Sharing (Units 1-6)	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-1-W-3W (Converted 10), 347/600V Meter Head
128	DMC-128	Circuit 2-DHW (Meter 3) Pumps, Fans	15					Cost Sharing (Units 1-6)	20-A0-006	1	
129	DMC-129	Circuit 3-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
130	DMC-130	Circuit 4-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
131	DMC-131	Circuit 5-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
132	DMC-132	Circuit 6-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	

*Note: If Meter, 100 breaker is required for metering cabinet for such panel and includes metered panelboard by TV.

Project: Aquavista
Electrical Metering Schedule
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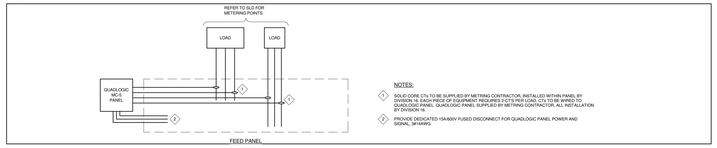
Item #	Tag	Description	Size (Amps)	Voltage	Pole/Phase	Panel Location	Type	Purpose	Drawing Reference	Qty	Equipment Required
133	DMC-133	TV-FT (Misc Pass-Thru Panel)	20	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Misc	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-0/1A SEL 4000 Meter Head
134	DMC-134	TV-FSL (Private Stream Lighting)	20					Cost Sharing*	20-A0-006	1	
135	DMC-135	Heater Meter CHR-01	20					New Building	20-A0-006	1	
136	DMC-136	EP-RCWF (Lighting & Some Meter)	20					Subtract TV-FSL-Ref Lighting (TV-FSL)	20-A0-006	1	
137	DMC-137	TV-FW	20					Subtractive	20-A0-006	1	
138	DMC-138	HVAC/Misc (Misc Mech Equipment)	20					Misc	20-A0-006	1	
139	DMC-139	Meter Meter for Ath/Mech-01	20					Misc	20-A0-006	1	
140	DMC-140	Meter Exercise Meter Pump Ath (CHR-01)	20					New Building	20-A0-006	1	
141	DMC-141	Meter Chiller Meter Pump PH-01-Ath-PH-01	20					New Building	20-A0-006	1	
142	DMC-142	Meter Meter of Pump	15	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	New Building	20-A0-006	1	1-LC-2 Socket Meter 120/208V
143	DMC-143	Meter Meter of Pump	15					New Building	20-A0-006	1	
144	DMC-144	Meter Meter Pump Secondary Pumps PH-01-P-PH-06	20					New Building	20-A0-006	1	
145	DMC-145	Meter Meter Pump Secondary Pumps PH-01-P-PH-10	15					New Building	20-A0-006	1	
146	DMC-146	Meter Meter Pump Secondary Pumps PH-01-P-PH-11	15					New Building	20-A0-006	1	
147	DMC-147	Circuit 1-Lighting for Elevator Lobby Meter Co	20	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Cost Sharing (Units 1-6)	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-1-W-3W (Converted 10), 347/600V Meter Head
148	DMC-148	Circuit 2-DHW (Meter 3) Pumps, Fans	15					Cost Sharing (Units 1-6)	20-A0-006	1	
149	DMC-149	Circuit 3-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
150	DMC-150	Circuit 4-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
151	DMC-151	Circuit 5-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
152	DMC-152	Circuit 6-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
153	DMC-153	Circuit 1-Suite #1004 Lighting	20	120/208, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	Socket Meter	Cost Sharing (Units 1-6)	20-A0-006	1	1-LC-2 Socket Meter 120/208V
154	DMC-154	Circuit 2-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
155	DMC-155	Circuit 3-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
156	DMC-156	Circuit 4-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
157	DMC-157	Circuit 1-Suite #1004 Lighting	20	120/208, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	Socket Meter	Cost Sharing (Units 1-6)	20-A0-006	1	1-LC-2 Socket Meter 120/208V
158	DMC-158	Circuit 2-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
159	DMC-159	Circuit 3-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
160	DMC-160	Circuit 4-Suite #1004 Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
161	DMC-161	Circuit 1-Lighting for Elevator Lobby Meter Co	20	347/600V, 3ph, 4w	3P/N/G	P-2 Electrical Room Main Tower	MC-6-CT4	Cost Sharing (Units 1-6)	20-A0-006	1	1 Metering Packs, 1-MC-6C (1-CT3, 1-CT4), 1-1-W-3W (Converted 10), 347/600V Meter Head
162	DMC-162	Circuit 2-DHW (Meter 3) Pumps, Fans	15					Cost Sharing (Units 1-6)	20-A0-006	1	
163	DMC-163	Circuit 3-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
164	DMC-164	Circuit 4-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
165	DMC-165	Circuit 5-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	
166	DMC-166	Circuit 6-Elev Lobby Lighting	20					Cost Sharing (Units 1-6)	20-A0-006	1	

*Note: If Meter, 100 breaker is required for metering cabinet for such panel and includes metered panelboard by TV.

5 METERING SCHEDULES
N.T.S



NOTES:

1. SOLID CORE CTs TO BE SUPPLIED BY METERING CONTRACTOR, INSTALLED WITHIN PANEL BY DIVISION 16. EACH PROC OF EQUIPMENT REQUIRES 3 CTS PER LOAD. CTs TO BE WIRED TO QUADLOGIC MCI5 PANEL. QUADLOGIC PANEL SUPPLIED BY METERING CONTRACTOR, ALL INSTALLATION BY DIVISION 16.
2. P