GENERAL POWER

- 15A, U-GROUND 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
- 20A — 120/208VAC / 30 AMP DRYER OUTLET
- 40A — 120/208VAC / 40 AMP RANGE OUTLET
- 20A, X — SINGLE SPECIAL RECEPTACLE - AMPACITY AS INDICATED, TYPE 'X' 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

LIGHTING

- LINEAR FLUORESCENT LUMINAIRE, TYPE 'A' AS SPECIFIED. HATCHING DENOTES CONNECTED TO EMERGENCY/NIGHT LIGHTING CIRCUIT
- A — CEILING MOUNTED LUMINAIRE, TYPE 'A' AS SPECIFIED
- A — WALL MOUNTED LUMINAIRE, TYPE 'A' AS SPECIFIED
- H1 — 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
- BU-1 — 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.

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 'F' - DENOTES CEILING '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 ACTIVATED 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 PANEL DESIGNATION
- SURFACE MOUNTED ELECTRICAL PANEL - 'SP' DENOTES PANEL DESIGNATION

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
- 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 — 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/CARBON MONOXIDE DETECTOR C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED
- CARBON MONOXIDE DETECTOR - WALL OR CEILING MOUNTED
- SPRINKLER SYSTEM FLOW OR PRESSURE SWITCH BY MECHANICAL AND WIRED BY ELECTRICAL COORDINATED/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- SPRINKLER SYSTEM OR STANDPIPE SUPERVISED VALVE BY MECHANICAL AND WIRED BY ELECTRICAL COORDINATED/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- SOLENOID VALVE BY MECHANICAL AND WIRED BY ELECTRICAL COORDINATED/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- DOOR HOLDER
- MOTORIZED DAMPER BY MECHANICAL AND WIRED BY ELECTRICAL COORDINATED/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

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
- AUDIBLE ALARM
- MOTION DETECTOR
- GLASS BREAK DETECTOR
- AUTOMATIC DOOR OPENER
- CCTV — CLOSED CIRCUIT CAMERA 'B' - DENOTES BOX ENCLOSURE 'D' - DENOTES ELEVATOR CORNER MOUNT 'P' - DENOTES PENDANT MOUNT 'PT2' - 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

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 - ADT INDICATES DROP IDENTIFICATION
- SIGNAL PUSH-BUTTON
- 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
- AMP — AMPLIFIER
- CONSOLE OR RACK C/W TERMINAL BOX

LIGHTING CONTROL

- ONE, TWO, THREE AND FOUR GANG SINGLE POLE TOGGLE SWITCHES
- 3 — 3-WAY SWITCH
- 4 — 4-WAY SWITCH
- K — KEY OPERATED LIGHT SWITCH
- P — TOGGLE SWITCH C/W RED PILOT LIGHT
- D — DOOR LIGHT SWITCH
- OS — SWITCH MOUNTED OCCUPANCY SENSOR, TYPE 'A' AS SPECIFIED
- F — FAN CONTROL SWITCH
- VS — VARIABLE SPEED FAN CONTROL SWITCH
- T — MANUAL TIMER SWITCH
- D — DIMMER SWITCH, TYPE 'A' AS SPECIFIED
- TC — PROGRAMMABLE TIME CLOCK, TYPE 'A' AS SPECIFIED
- OS — CEILING MOUNTED OCCUPANCY SENSOR, TYPE 'A' AS SPECIFIED
- PC — PHOTO ELECTRIC CONTROL
- LV — LOW VOLTAGE RELAY
- LVR — LOW VOLTAGE RELAY PANEL, TYPE 'A' AS SPECIFIED
- LVS — LOW VOLTAGE CONTROL STATION, TYPE 'LVS' AS SPECIFIED
- LVM — LOW VOLTAGE CONTROL SYSTEM MASTER STATION

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 KWHR METER
- DIGITAL METERING SYSTEM
- BUS DUCT
- AUTOMATIC TRANSFER SWITCH - 'IBP' DENOTES ISOLATION BYPASS SWITCH
- EMERGENCY GENERATOR
- EI — EMERGENCY LIGHTING INVERTER
- UPS — UNINTERRUPTABLE POWER SUPPLY

ELECTRIC HEATING

- 2000 W — ELECTRIC BASEBOARD HEATER, TYPE 'BBH1' AS SPECIFIED
- 1500 W — ARCHITECTURAL DRAFT BARRIER HEATER, TYPE 'DBH1' AS SPECIFIED
- 4500 W — ELECTRIC KICKSPACE HEATER, TYPE 'KSH1' AS SPECIFIED
- 750 W — ELECTRIC DROP-IN HEATER, TYPE 'DIH1' AS SPECIFIED
- 2 CUH1 — CABINET UNIT HEATER, TYPE 'CUH1' AS SPECIFIED
- 2 RWH 6000 — RECESSED MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'RFH1' AS SPECIFIED
- 2 SWH 6000 — SURFACE MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'RFH1' AS SPECIFIED
- 2 UH1 — ELECTRIC UNIT HEATER, TYPE 'UH1' AS SPECIFIED
- AREA OF SNOW MELTING CABLE - TYPE 'S1' AS SPECIFIED
- HEAT TRACING CABLE AROUND HORIZONTAL PIPE - TYPE 'ISIZ' AS SPECIFIED
- HEAT TRACING CABLE AROUND VERTICAL PIPE - TYPE 'ISV1' AS SPECIFIED

MISCELLANEOUS

- INDICATES EXISTING DEVICE TO REMAIN
- RM — INDICATES EXISTING DEVICE TO BE MOVED
- R — INDICATES EXISTING DEVICE IN RELOCATED POSITION
- D — INDICATES EXISTING DEVICE TO BE DEMOLISHED
- INDICATES CONDUIT
- ELECTRICAL DRAWING NOTES

NURSE CALL SYSTEMS

- SINGLE PATIENT BED STATION
- DOUBLE PATIENT BED STATION
- PULL CORD STATION - (SHOWER ROOM, TUB ROOM, AND WASHROOMS)
- DOME LIGHT CONSISTS OF: 'FLASHING RED' FOR FIRE ALARM 'FLASHING BLUE' FOR CORRIDOR STATION 'FLASHING WHITE' FOR STATION IN WASHROOM, SHOWER OR TUB ROOM 'FLASHING AMBER' FOR EXTERIOR STATION LOCATIONS 'STEADY AMBER' FOR DINING OR ACTIVITY AREAS
- WALL MOUNTED DUTY STATION OUTLET FOR NURSE CALL CONSOLE. CONSOLE SHALL BE MOUNTED AT TYPICAL OUTLET MOUNTING HEIGHT
- NCA — RECESSED MOUNTED - NURSE CALL ANNUNCIATOR PANEL
- SNCA — SURFACE MOUNTED - NURSE CALL ANNUNCIATOR PANEL
- NCP — RECESSED MOUNTED - NURSE CALL CONTROL PANEL
- SNCP — SURFACE MOUNTED - NURSE CALL CONTROL PANEL

BRANCH CIRCUITING LEGEND

- 20/1 - 3 — '3' - DENOTES CIRCUIT NUMBER '20/1' - DENOTES 20A BREAKER IN PANEL (P1 LEVEL)
  - 'E' - DENOTES EMERGENCY PANEL
  - '2' - DENOTES 120/208V 0P
  - '4' - DENOTES 347/600V

NOTES

GENERAL NOTES:

1. MINIMUM CONDUIT SIZE SHALL BE 21mm UNLESS NOTED OTHERWISE.
2. MOUNTING HEIGHT OF ALL EQUIPMENT/DEVICES SHOWN IN SYMBOL LEGEND ARE GIVEN AS A GUIDELINE ONLY WITH RESPECT TO THE CENTER OF THE ABOVE FINISHED FLOOR.
3. ALL EXIT SIGNS IN PARKING LEVELS NOT INDICATED AS WALL MOUNTED. SIGNS SHALL BE CEILING MOUNTED UNLESS NOTED OTHERWISE. SIGNS THAT EXITS ARE USABLE BEYOND BUILDING STRUCTURE SHALL HAVE ARROWS TO DESIGNATE EXACT LOCATION ON SITE PRIOR TO INSTALLATION.
4. ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS SHALL BE CHAIN SUSPENDED TO CLEAR ALL OTHER EQUIPMENT AND STRUCTURES. COORDINATE EXACT LOCATIONS PRIOR TO INSTALLATION.
5. ALL SWITCHES SHALL BE LOCATED ADJACENT TO DOOR JAMB. ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS, KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.
6. REFER TO ARCHITECTURAL POWER RISER DETAILS FOR COMMON AREAS AND STAIRWELL CIRCUITING.
7. ALL EXIT LIGHTS WITHIN PARKADE AREA SHALL BE TYPE 'S1' UNLESS NOTED OTHERWISE.
8. ALL EXIT LIGHTS WITHIN COMMERCIAL AREAS EXCLUDING PARKADE AREAS SHALL BE TYPE 'S2' UNLESS NOTED OTHERWISE.

RESIDENTIAL SUITE NOTES:

1. OUTLET MOUNTED IN MILLWORK (UNDER SINK) FOR FUTURE DISHWASHER.
2. SUITE FAN COIL UNIT C/W ELECTRIC HEATER (TYPICAL).
3. ALL RECEPTACLES IN KITCHEN WITHIN 1M OF SINK SHALL BE PROVIDED WITH GROUND FAULT PROTECTION (TYPICAL).
4. WHEN MORE THAN ONE SMOKE ALARM OR COMBINATION SMOKE ALARM/C.O. DETECTOR IS REQUIRED IN A DWELLING UNIT, THE INTERCONNECTION SHALL BE SUCH THAT THE ACTUATION OF ONE DETECTOR WILL CAUSE ALL DETECTORS WITHIN DWELLING UNIT TO SOUND. (TYPICAL)
5. SEE ARCHITECTURAL.
6. PROVIDE FIRE ALARM PULLSTATIONS AT ALL SUITE BALCONY EXITS ON MAIN FLOOR ONLY.
7. PROVIDE GFCI WATERPROOF RECEPTACLE AT ALL SUITES WHERE APPLICABLE. RECEPTACLE SHALL BE MOUNTED AT 900mm (2'-0") AFF.

NOTE
NOT ALL SYMBOLS SHOWN ON THIS LEGEND ARE NECESSARILY USED ON THIS PROJECT.

ABBREVIATIONS

A	-	AMPERES	CSTE	-	CUSTOMER SERVICE TERMINATION	FU	-	FUSE	MIC	-	MICROWAVE
ACI	-	MOUNTED ABOVE CEILING			ENCLOSURE	FX	-	FAX MACHINE	MP	-	MOISTURE PROOF
AFCI	-	ARC FAULT CIRCUIT INTERRUPTER	CT	-	COMPUTER TERMINAL	FZ	-	FREEZER	MTD	-	MOUNTED
AFF	-	ABOVE FINISHED FLOOR	CTP	-	COMPUTER TERMINAL PRINTER				MTG	-	MOUNTING
AFG	-	ABOVE FINISHED GRADE				GFI	-	GROUND FAULT CIRCUIT INTERRUPTER	MV	-	EXISTING TO BE MOVED
			D	-	DELETE	GRB	-	GARBURATOR	MW	-	MOUNTED IN MILLWORK
BFC	-	BELOW FINISHED CEILING	DB	-	DIRECT BURIED	GW	-	GROUND WIRE			
BFG	-	BELOW FINISHED GRADE	DHWH	-	DOMESTIC HOT WATER HEATER				NC	-	NORMALLY CLOSED
BB	-	BASEBOARD HEATER	DHWT	-	DOMESTIC HOT WATER TANK (5YR 15 PROVIDED BY OWNER)	H	-	HORIZONTAL	NIC	-	NOT IN CONTRACT
BRK	-	BREAKER				HP	-	HORSEPOWER	NL	-	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)
CF	-	CEILING FAN	E	-	EXISTING	KVA	-	KILO VOLT-AMPERES	PA	-	PUBLIC ADDRESS
CFM	-	CUBIC FEET PER MINUTE	EC	-	ELECTRIC CONDUIT	KW	-	KILOWATTS	PDU	-	POWER DISTRIBUTION UNIT
CH	-	CHILLPROOF	EF	-	EXHAUST FAN				PH	-	PHASE PANEL
CLG	-	CEILING MOUNTED	EH	-	ELECTRIC HEATER	LDB	-	LOCK ON TYPE BREAKER	PNL	-	PP POWER PANEL
CLR	-	CLEAR OF OBSTRUCTION				LP	-	LIGHTING PANEL	PR	-	PRINTER
CM P/VNR	-	COMBINATION MAGNETIC, FULL VOLTAGE NON-REVERSING	F	-	FLUSH FLOOR MOUNTED	LTG	-	LIGHTING			
			FA	-	FIRE ALARM	LV	-	LOW VOLTAGE	QP	-	QUAD PLEX
CM R/VNR	-	COMBINATION MAGNETIC, REDUCED VOLTAGE NON-REVERSIBLE	FAP	-	FIRE ALARM PANEL (WHEN USED WITH MOTOR SYMBOL)	LVR	-	LOW VOLTAGE RELAY			
CNDT	-	CONDUIT	FC	-	FOOT CANDLE				R	-	RELOCATED
CO	-	CLEAN OUT	FF	-	FORCE FLOW	MC	-	METERING CENTRE	RP	-	RECEPTACLE PANEL
CM	-	CLOTHES WASHING MACHINE	FHC	-	FIRE RATED CABINET	MCC	-	MOTOR CONTROL CENTRE			
CS	-	CONTROL SWITCH	FR	-	FRIDGE	MCD	-	MULTI CONDUCTOR	SC	-	SEPARATE CIRCUIT
			FS	-	DEVICE MOUNTED IN RAISED FLOOR SPACE	MD	-	MAIN DISTRIBUTION	SS	-	SELECTOR SWITCH
									SWBD	-	SWITCHBOARD
									TEL	-	TELEPHONE
									TYP	-	TYPICAL
									UC	-	UNDER COUNTER
									V	-	VOLT
									VM	-	VENDING MACHINE
									W	-	WALL MOUNTED
									WC	-	WATER COOLER
									WH	-	WATER HEATER
									WL	-	WET LOCATION
									WP	-	WEATHERPROOF
									WT	-	WATTAGE
									WTP	-	WATERPROOF
									XP	-	EXPLOSION PROOF

DWG NO.	DRAWING NAME	SCALE	ISSUED FOR BUILDING PERMIT 2015-06-12
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 - ELECTRICAL	1:100	
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	•
E2-010A	LEVEL 9 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-010B	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	•
E3-14A	LEVEL 13 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E3-14B	LEVEL 13 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E3-C-01	CONDO - SINGLE LINE DIAGRAM	N.T.S.	•
E3-C-02	CONDO - SECURITY RISER DIAGRAM & DETAILS	N.T.S.	•
E3-C-03	CONDO - FIRE ALARM RISER DIAGRAM	N.T.S.	•
E3-C-04	CONDO - FIRE ALARM SYSTEM ZONE SCHEDULE	N.T.S.	•
E3-C-05	CONDO - COMMON AREA LIGHTING & POWER RISER DIAGRAM, DISPOSAL SYSTEM ROUGH-IN RISER	N.T.S.	•
E3-C-06	CONDO - COMMUNICATION SYSTEM RISER DIAGRAM	N.T.S.	•
E3-A-01	ARTSCAPE - SINGLE LINE DIAGRAM	N.T.S.	•
E3-A-02	ARTSCAPE - SECURITY RISER DIAGRAM & DETAILS	N.T.S.	
E3-A-03	ARTSCAPE - COMMON AREA LIGHTING & POWER RISER DIAGRAM, DISPOSAL SYSTEM ROUGH-IN RISER	N.T.S.	•
E3-A-04	ARTSCAPE - COMMUNICATION SYSTEM RISER DIAGRAM	N.T.S.	•
E3-R-01	RETAIL - SINGLE LINE DIAGRAM	N.T.S.	•
E4-01	MISCELLANEOUS DETAILS - ELECTRICAL	N.T.S.	•
E4-02	MISCELLANEOUS DETAILS - ELECTRICAL	N.T.S.	•
ME-11	CONDO - EQUIPMENT SCHEDULES #1	N.T.S.	
ME-12	CONDO - EQUIPMENT SCHEDULES #2	N.T.S.	
ME-13	CONDO - EQUIPMENT SCHEDULES #3	N.T.S.	
ME-14	CONDO - EQUIPMENT SCHEDULES #4	N.T.S.	
ME-21	ARTSCAPE - EQUIPMENT SCHEDULES #1	N.T.S.	
ME-22	ARTSCAPE - EQUIPMENT SCHEDULES #2	N.T.S.	
ME-31	RETAIL - EQUIPMENT SCHEDULES #1	N.T.S.	
ME-32	RETAIL - EQUIPMENT SCHEDULES #2	N.T.S.	

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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-11
No.	Issued For	Date

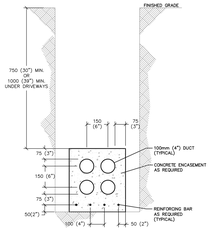
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type
ELECTRICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES

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

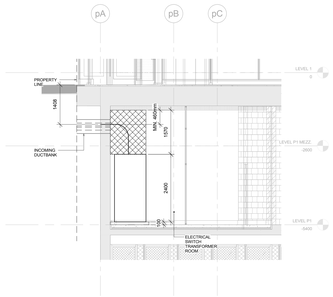
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Project No.: 8489D
Date: 06/29/12
Drawing No.: E0-01

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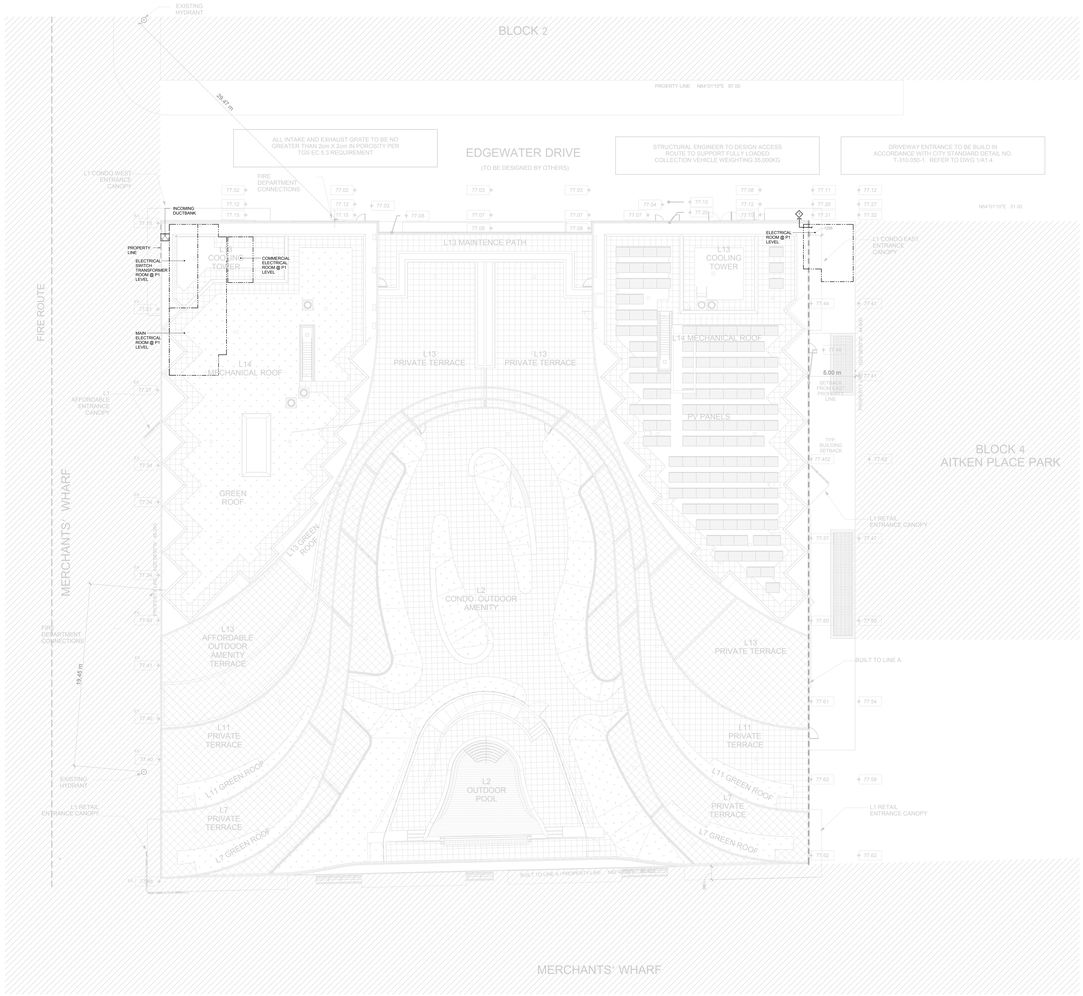


NOTE:
1. REFER TO SECTION 16105 FOR INSTALLATION DETAILS.

3 DUCTBANK SECTION
N.T.S



2 ELECTRICAL SWITCH TRANSFORMER ROOM SECTION
1 : 50



NOTES:
1. FOR PRIVATE STREET LIGHTING, CAP THE CONDUIT AT PROPERTY LINE.

1 ELECTRICAL SITE PLAN
1 : 150

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1	BUILDING PERMIT SUBMISSION	2015.09.15

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

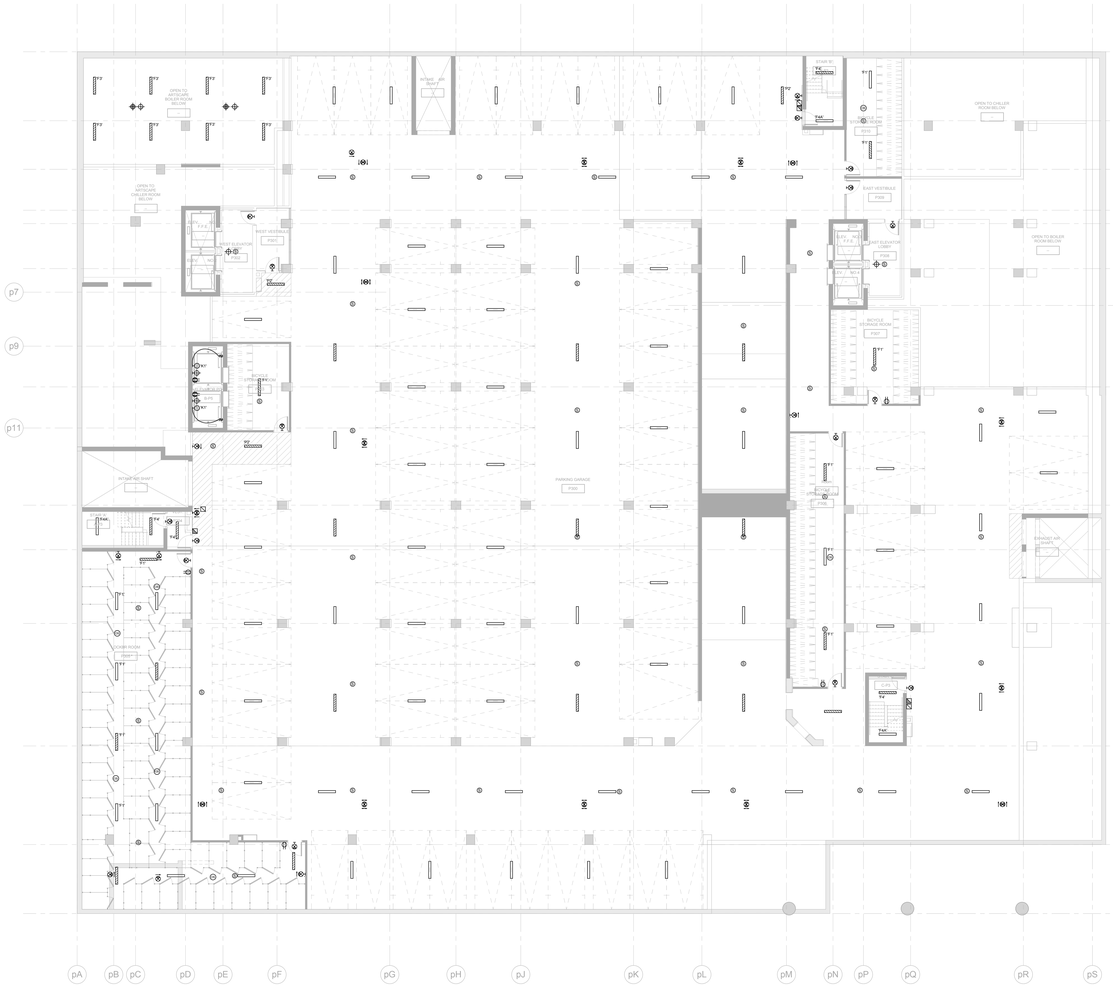
Drawing Title
SITE PLAN - ELECTRICAL

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

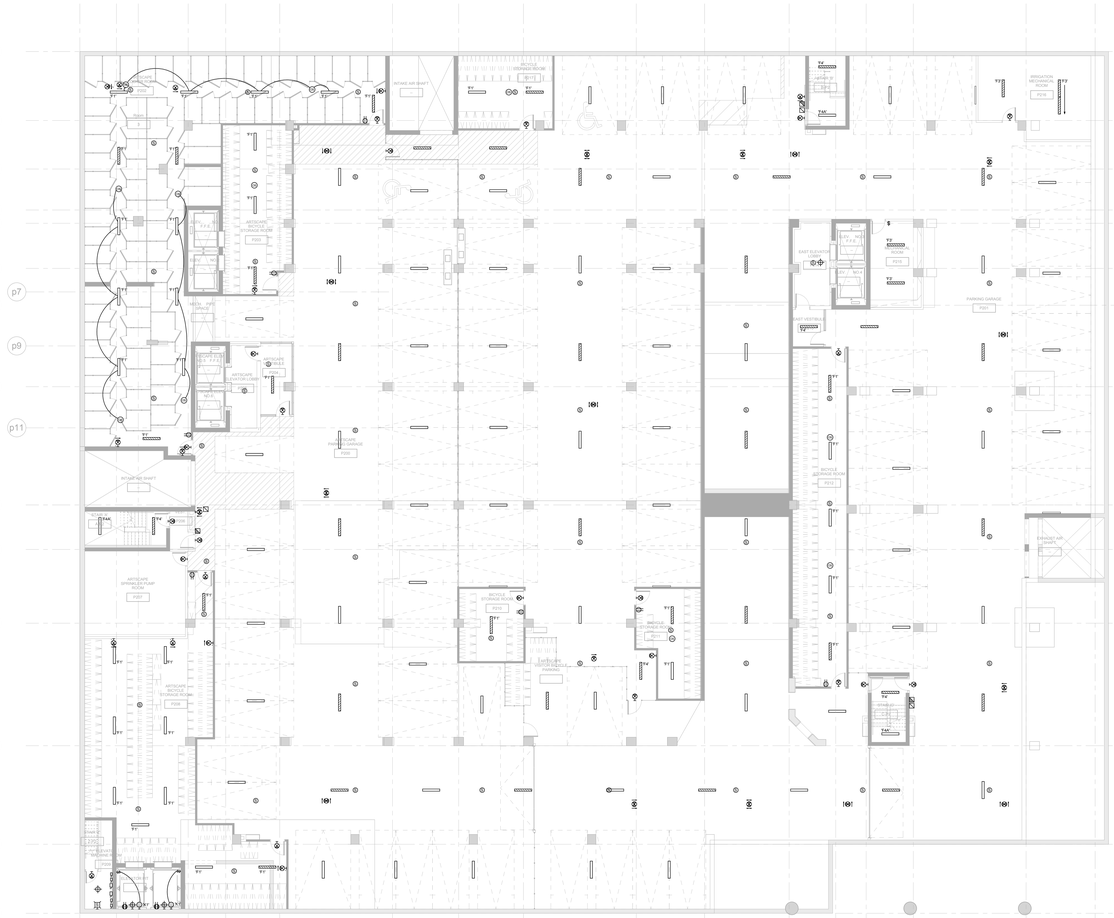
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OPEN TO ARTICAIRE BOILER ROOM BELOW
P400
OPEN TO ARTICAIRE CHILLER ROOM BELOW
P400
INTAKE AIR SHAFT
P400
STAIR 'B'
P4
P4
P4



2 LEVEL P1 - ELECTRICAL
1 : 100



1 LEVEL P2 - ELECTRICAL
1 : 100

NOTES:

1. ALL GARAGE LIGHT FIXTURES SHALL BE TYPE 'F1' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS.
3. 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 UNSWITCHED.
4. ALL EXIT SIGNS ON THIS DRAWING SHALL BE TYPE 'E1'.

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No.	Revision	Date

No.	Issued For	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

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: 1 : 100
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 03/06/15
Drawing No.: E1-02

N

Plot Date: 12/06/2015 11:51:40 AM File Path: C:\Users\cadmin\Desktop\Revit Documents\8489D - Aquavista - MEP_cmadmin_2015



NOTES:

1. ALL RETAIL TEMPORARY LIGHTING FIXTURES ARE TYPE 'F3' UNLESS OTHERWISE NOTED. PROVIDE SWITCHES FOR LIGHTING CONTROL
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E3-05)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SPS' 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 POWER SUPPLY AND DISTRIBUTION SYSTEM IN RETAIL AREA. POWER TO COME FROM RETAIL TANGENT PANELS.
7. CONCIERGE/SECURITY DESK. PROVIDE 20 15A, 120V CIRCUITS FROM PANEL P1 LOCATED IN ROOM 116. CONFIRM EXACT LOCATION OF DESK AND COORDINATE WITH THE DESK. EXACT EQUIPMENT LAYOUT TO BE CO-ORDINATED WITH SECURITY CONTRACTOR AND MILLWORK SHOP DRAWINGS. (20 TPN-xxxx)
8. PROVIDE JUNCTION BOX FOR DH DOOR CONTROL. RUN CONDUIT WITH WIRING TO DOOR AS DIRECTED.
9. RUN CONDUIT, 2 - 3/4 trade S.C. FROM ELEVATOR HOISTWAY TO C.A.C.F. AND FROM C.A.C.F. TO CONCIERGE DESK. REFER TO SPECIFICATION SECTION 16110.
10. PROVIDE LIGHTING RELAY PANEL 'LVP-4' AND RUN ALL THE LIGHTING CIRCUITS THROUGH THE RELAY PANEL. ALL THE NORMAL LIGHTING TO BE TURNED OFF FROM 11:00PM TO 5:00AM AND PROVIDE MASTER CONTROL SWITCH IN CONCIERGE DESK. EXACT LOCATION TO BE CONFIRMED ON SITE IN THE ROOM.
11. REFER TO SINGLE LINE DIAGRAM AND SPECIFICATION FOR ELEVATOR POWER REQUIREMENT. ELEVATOR CONTROL EQUIPMENT LOCATION TO BE COORDINATED WITH ARCHITECTURAL DRAWING.
12. LED DRIVER IN CEILING SPACE FOR CANOPY LIGHTING FIXTURES. SIZE WIRING ACCORDING TO LOAD. REFER TO DETAIL 2/E3-04 FOR DETAILS.
13. MOTORIZED DOOR CLOSERS CONTROLLED FROM CACF FOR SMOKE MANAGEMENT. REFER DETAIL 2/E3-04 FOR CONTROL DETAILS.
14. LOCATE EXIT SIGN AND ELECTRICAL STRIKE ON OVER FOLD DOOR. COORDINATE ACCESS TO DOOR W/DOOR SUPPLIER.

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No.	Issued For	Date
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1	BUILDING PERMIT SUBMISSION	2015.09.15

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 1 FLOOR PLAN
NORTH - ELECTRICAL

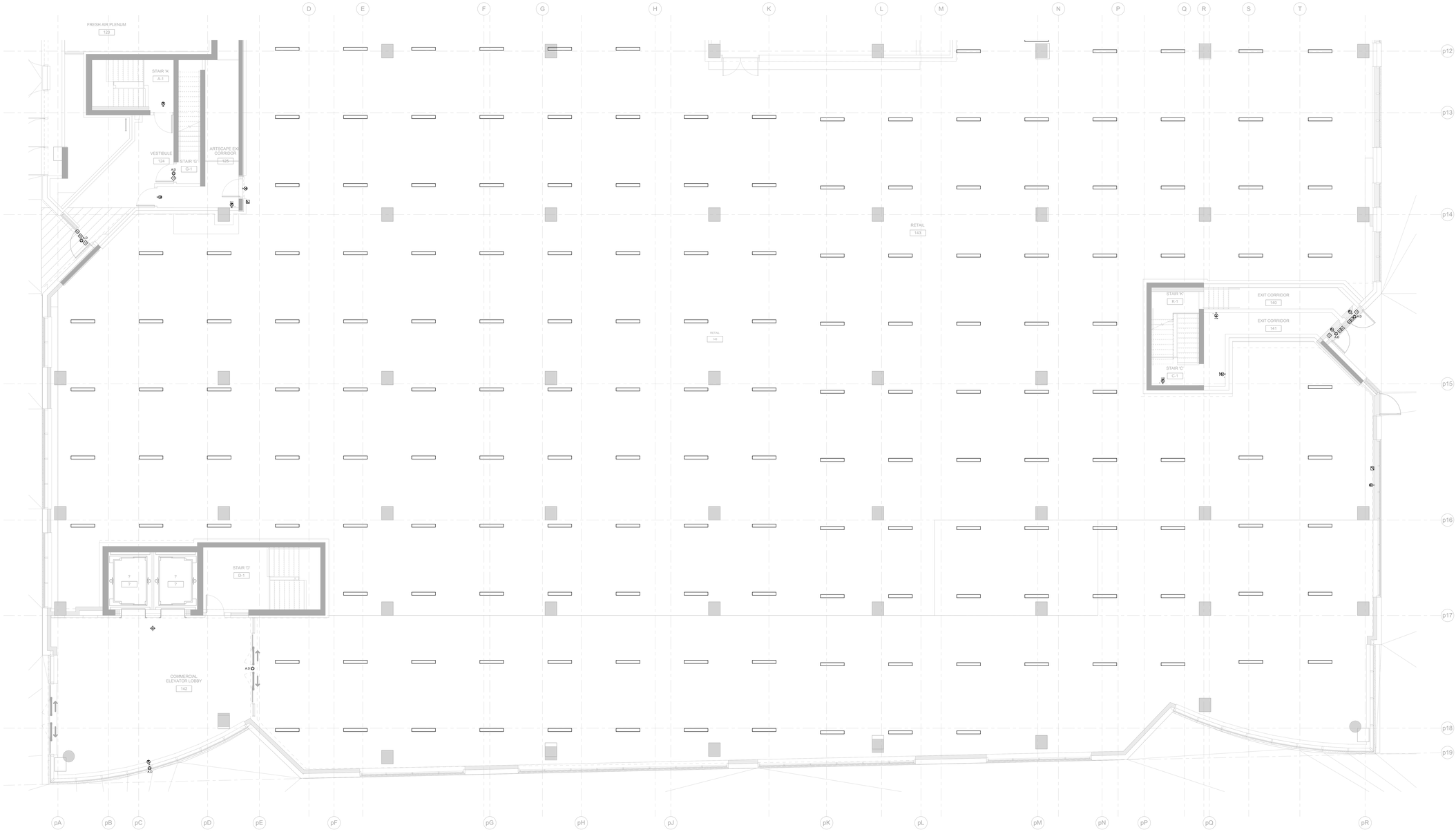
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AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

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E2-01A



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2		
1	BUILDING PERMIT SUBMISSION	2015.09.10

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 1 FLOOR PLAN
SOUTH - ELECTRICAL

Project

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

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Drawn by: Author

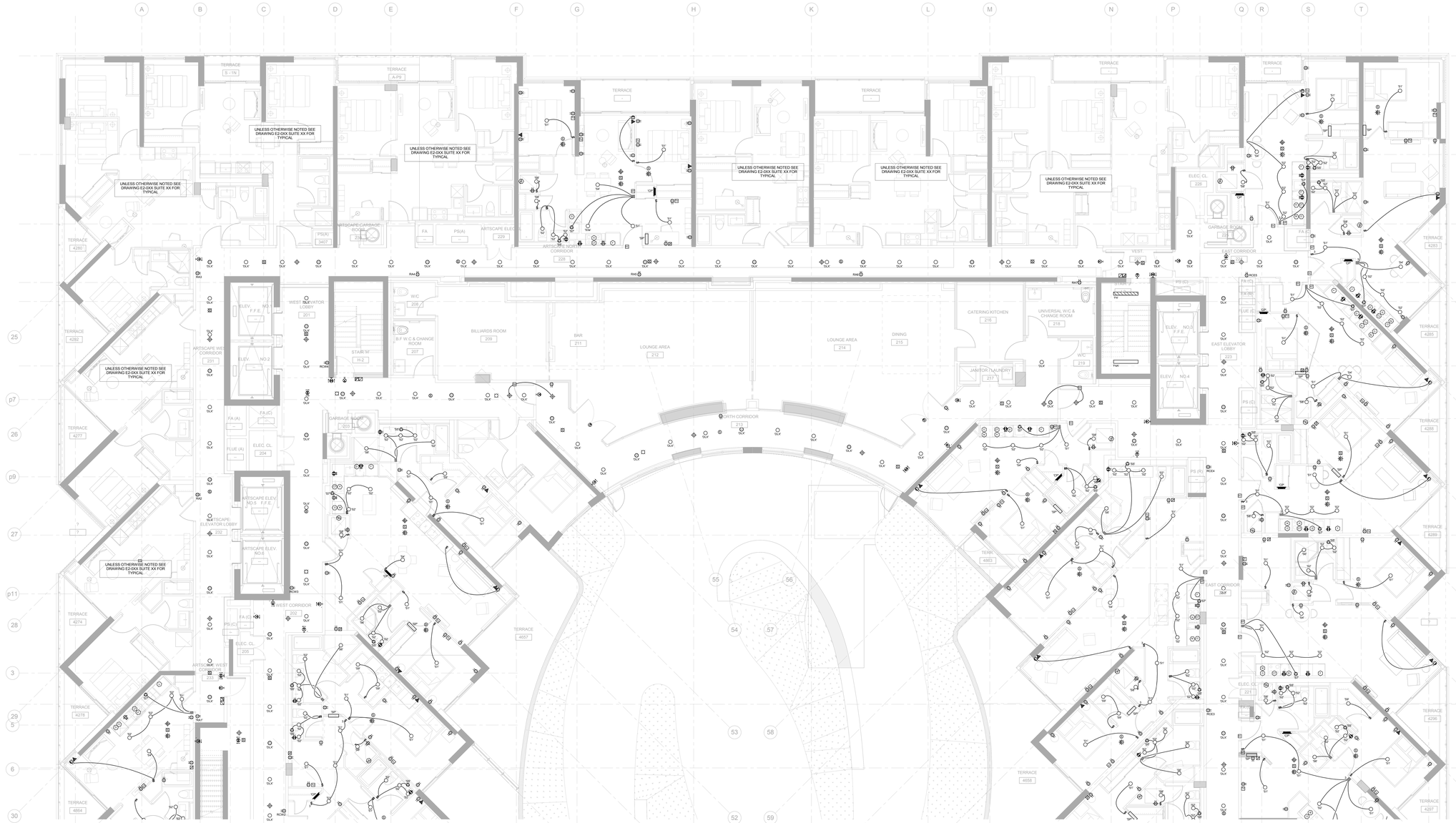
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Project No.: 8489D

Date: 03/09/15

Drawing No.: E2-01B

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No.	Revision	Date

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2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 2 FLOOR PLAN
NORTH - ELECTRICAL

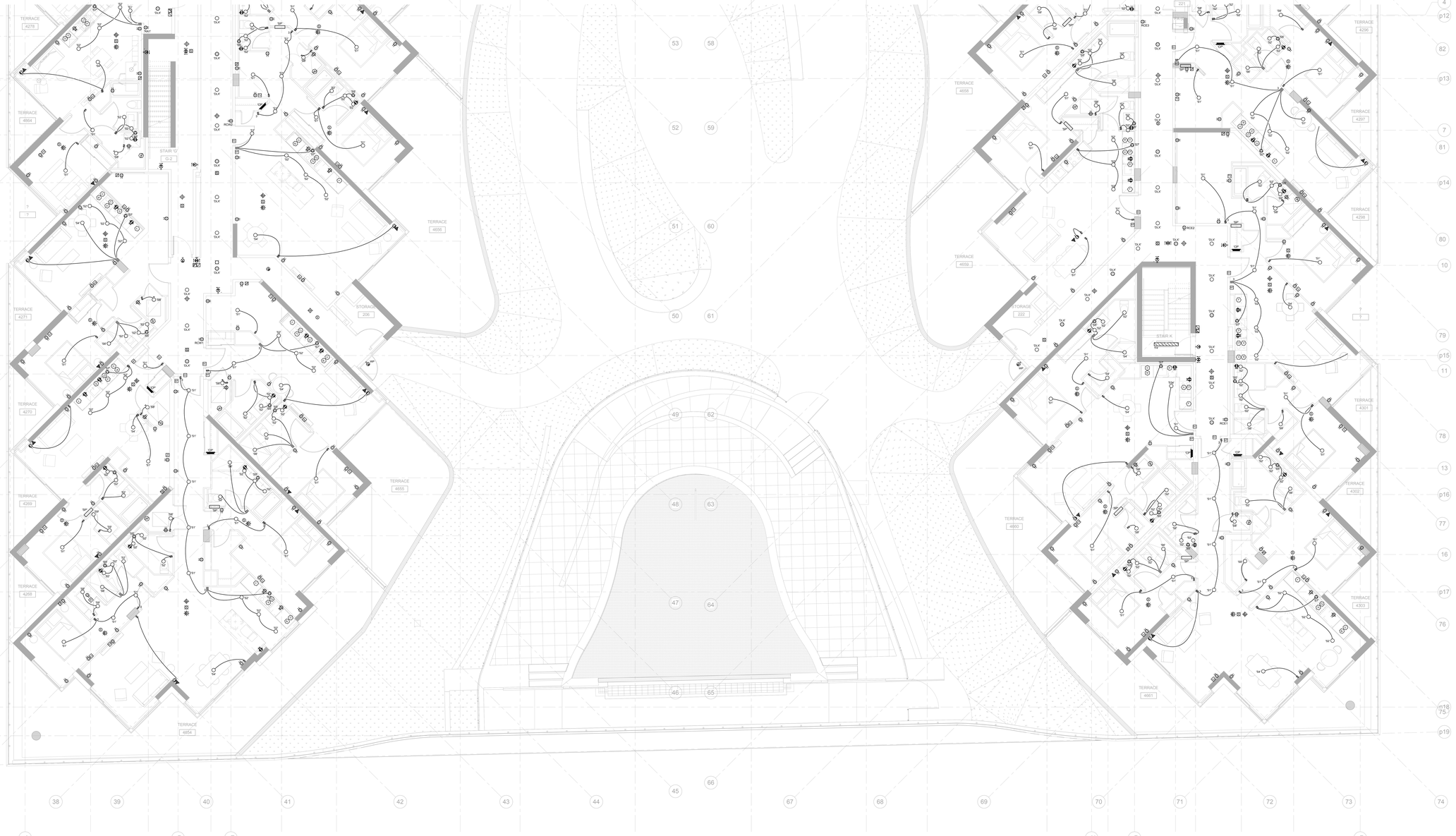
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Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

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Drawing No.	E2-03A

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1	WT REVIEW	2015-05-01

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Drawing Title

LEVEL 2 FLOOR PLAN
SOUTH - ELECTRICAL

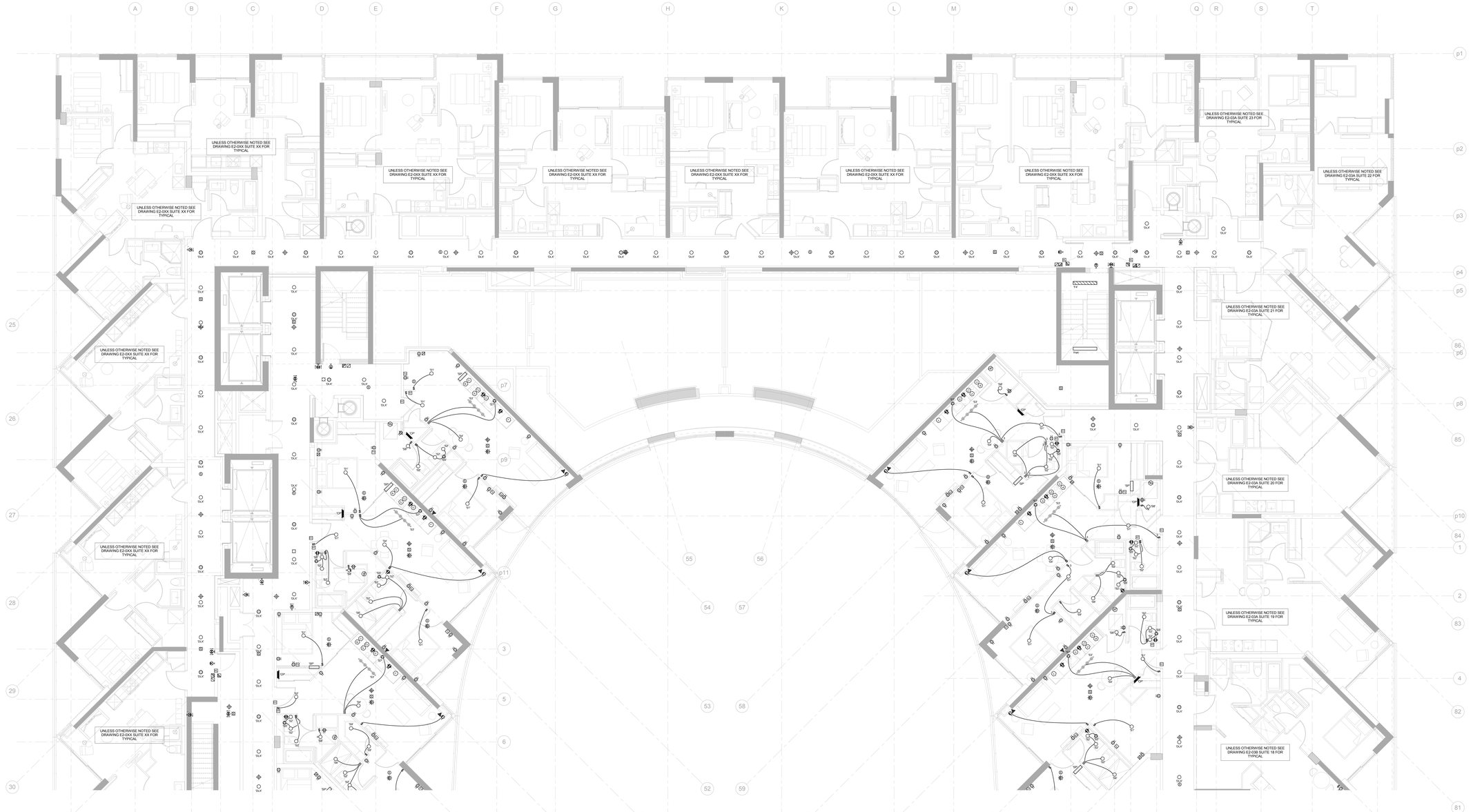
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LEVEL 3 FLOOR PLAN
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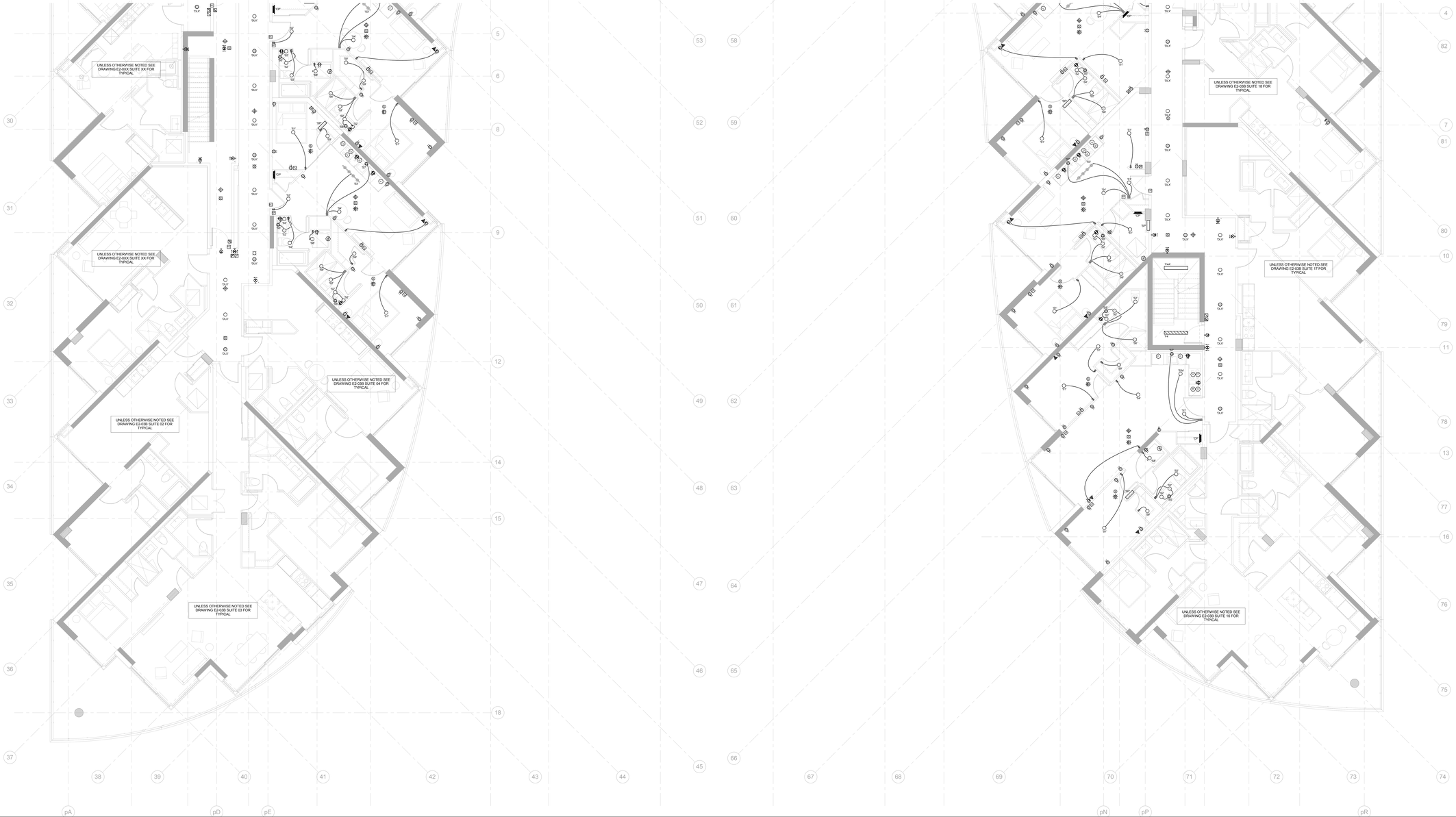
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1	WT REVIEW	2015-05-01

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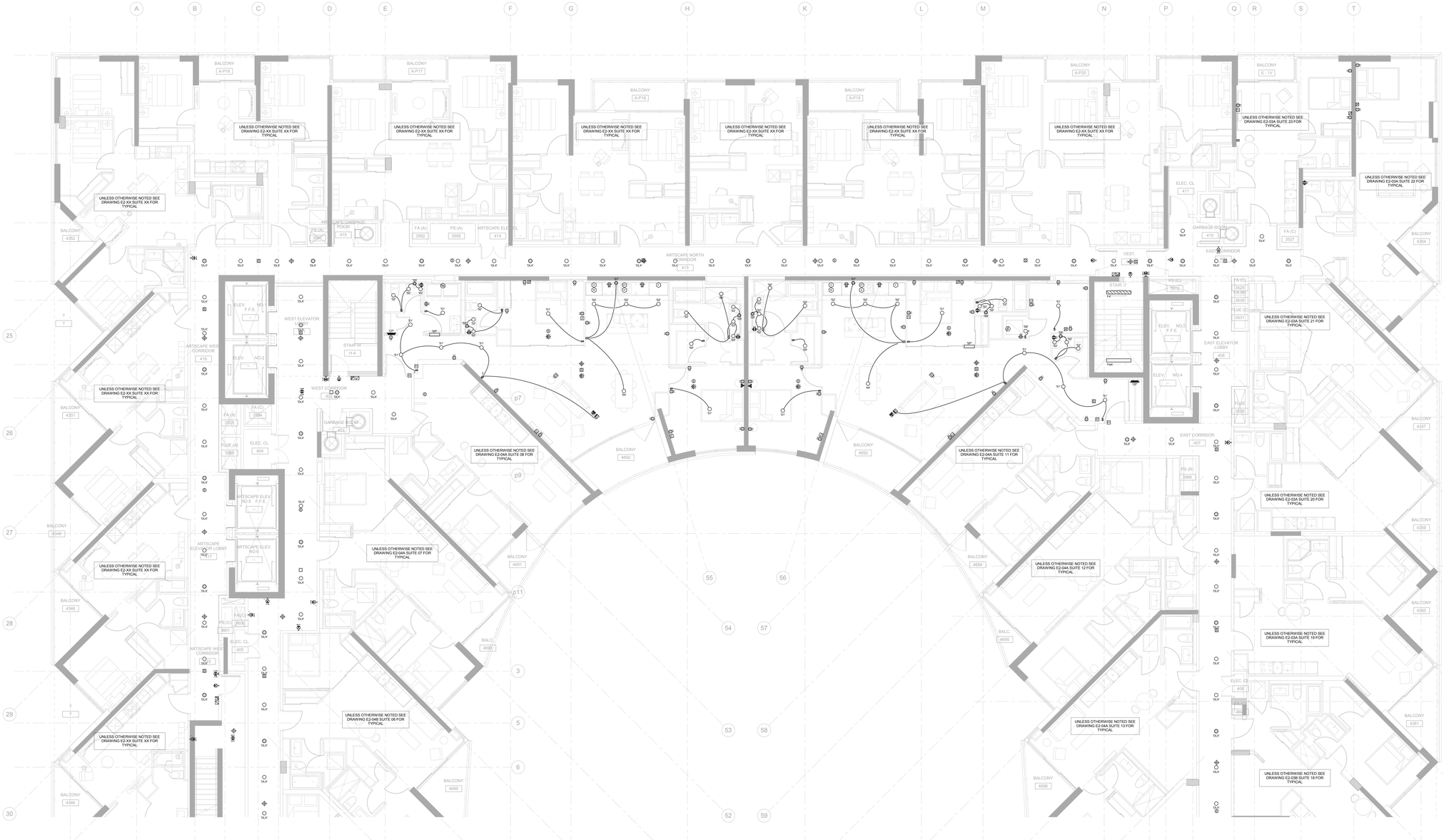
LEVEL 3 FLOOR PLAN
SOUTH - ELECTRICAL

Project

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

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Date	03/09/15
Drawing No.	E2-04B

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2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-08
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 4 FLOOR PLAN
NORTH - ELECTRICAL

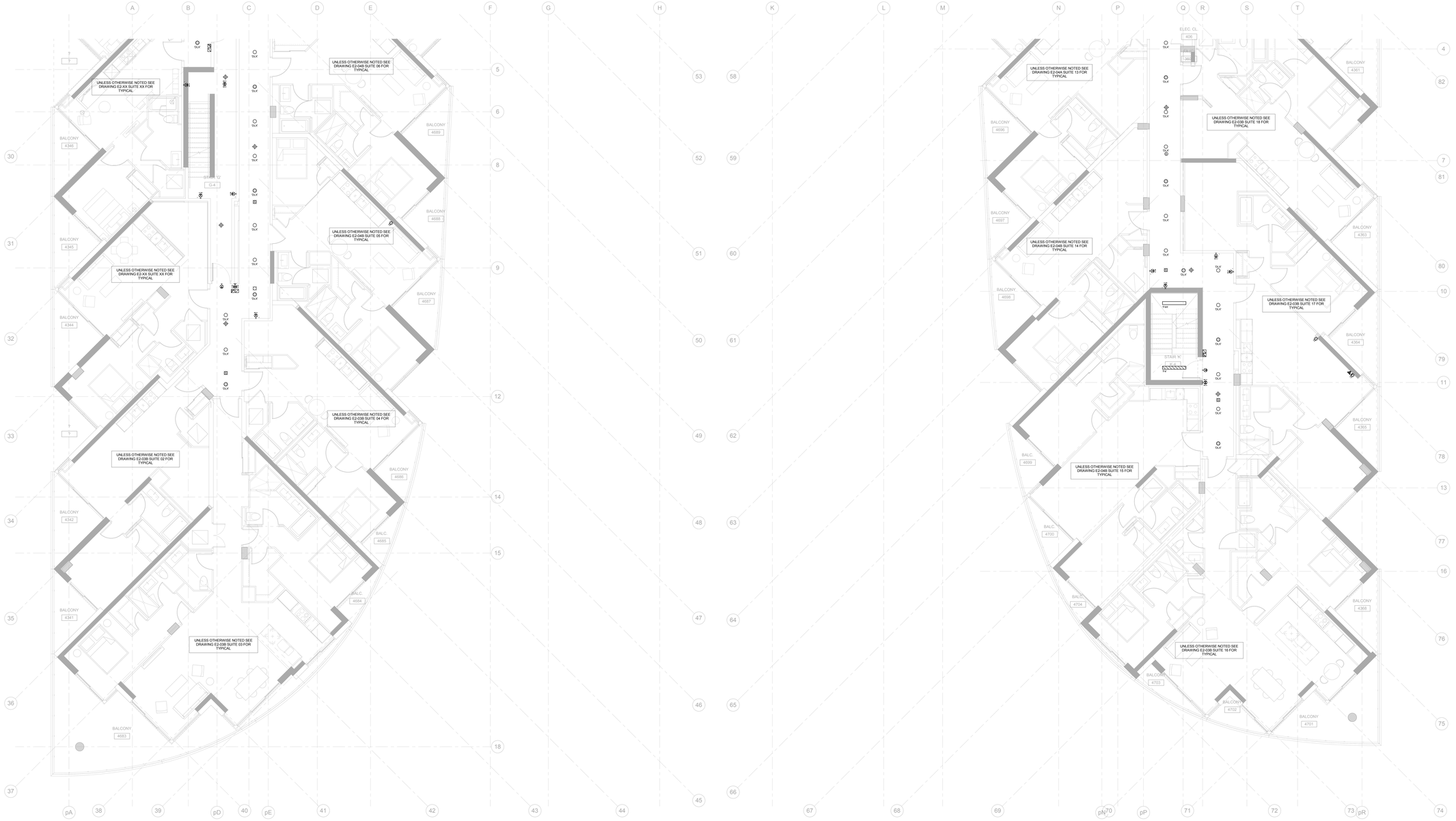
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AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

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

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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 4 FLOOR PLAN
SOUTH - ELECTRICAL

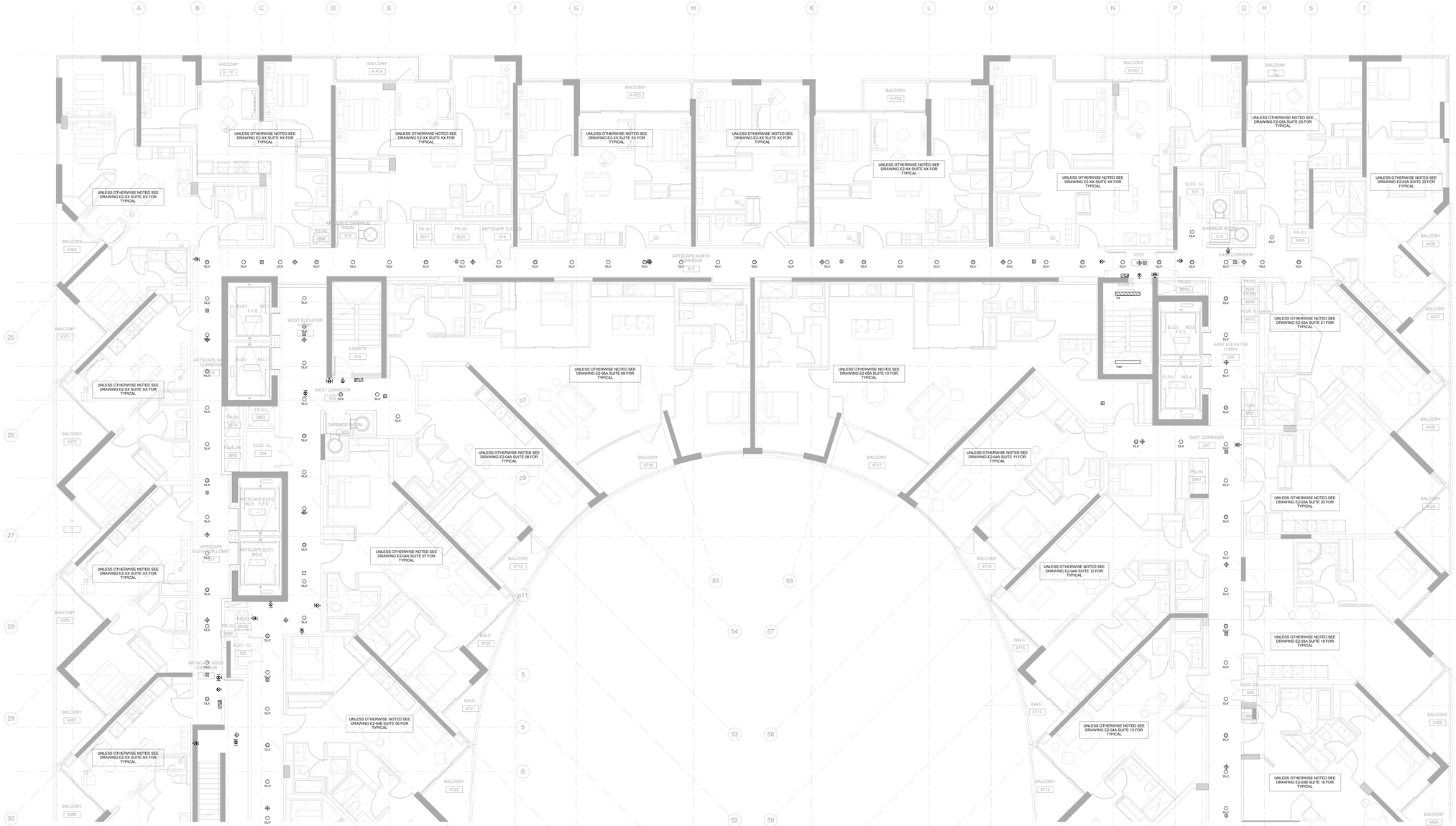
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Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	1 : 50
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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-08

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

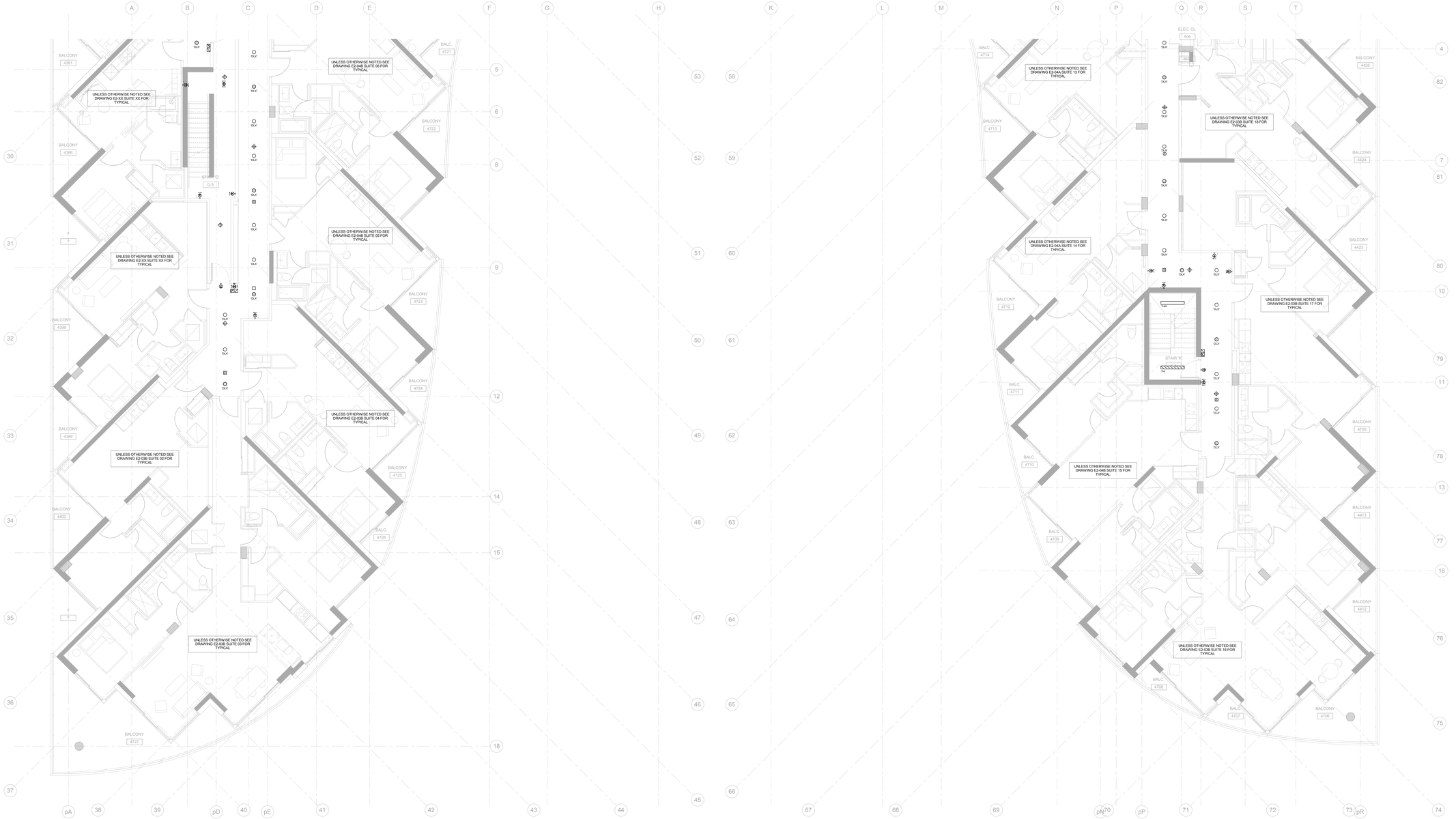
LEVEL 5 FLOOR PLAN
NORTH - ELECTRICAL

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

N



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2	BUILDING PERMIT SUBMISSION	2015-06-12
1	BT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

LEVEL 5 FLOOR PLAN
SOUTH - ELECTRICAL

Project

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

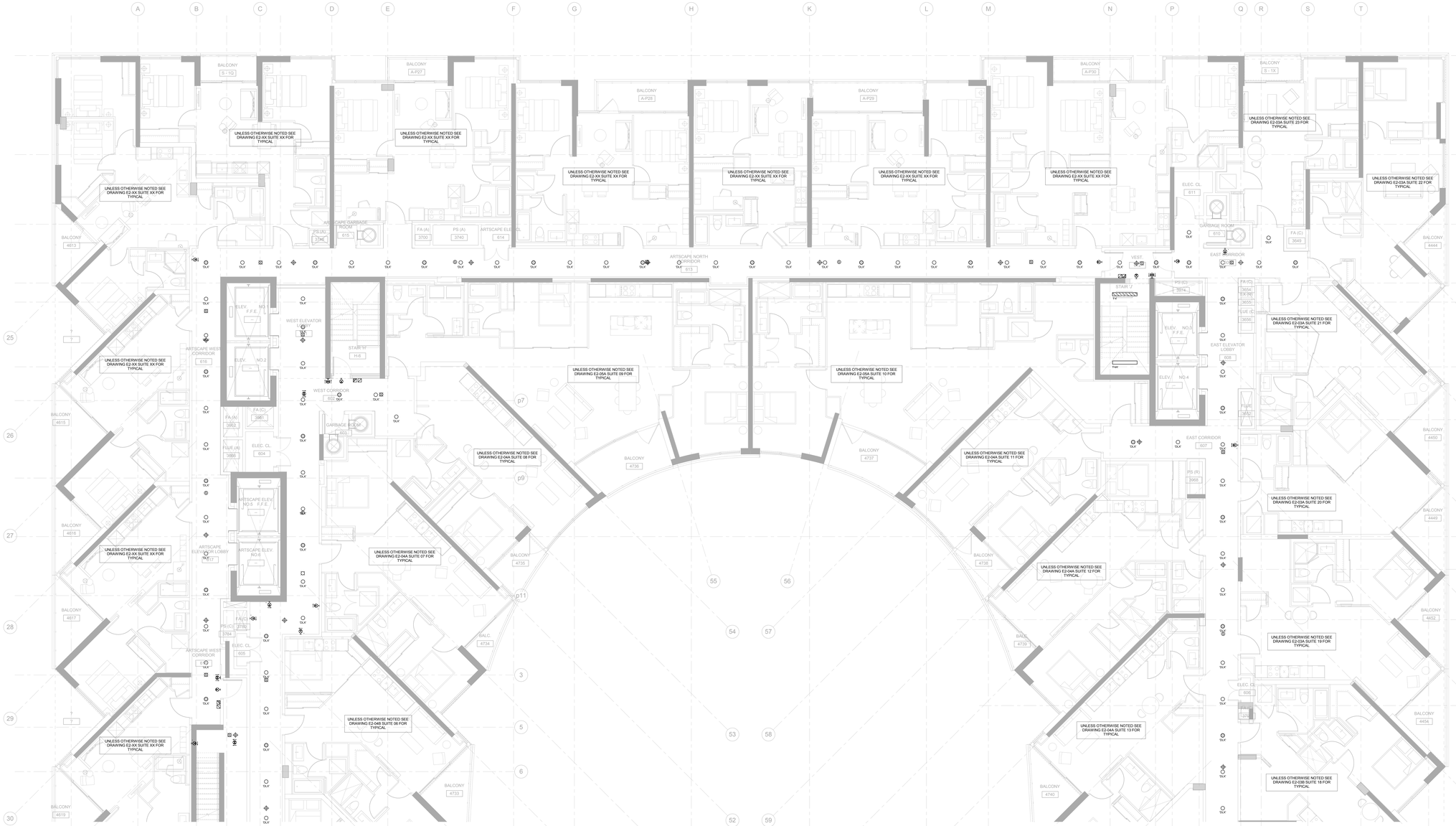
Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15

N

Drawing No.

E2-06B

Plot Date: 12/06/2015 11:38:32 AM File Path: C:\Users\jcastro\Desktop\Central_8489D_jcastro.rvt



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100150
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1	WT REVIEW	2015-05-08

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

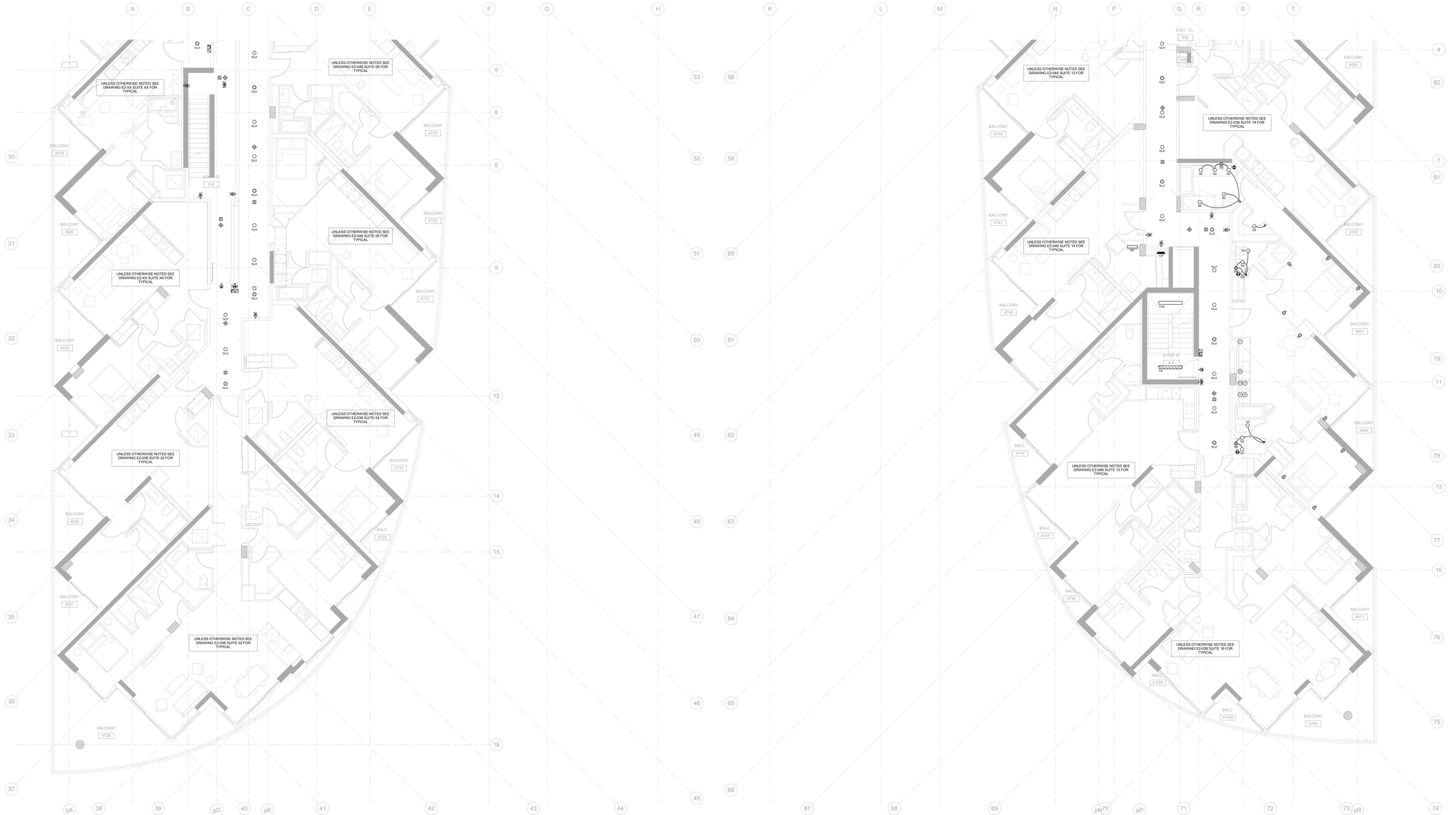
Drawing Type
LEVEL 6 FLOOR PLAN
NORTH - ELECTRICAL

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

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Plot Date: 12/09/2015 11:38:38 AM File Path: C:\Users\jbelamy\Desktop\8489D_Aquavista_-_MEP_Revised_2015



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2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-05

No.	Issued For	Date

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

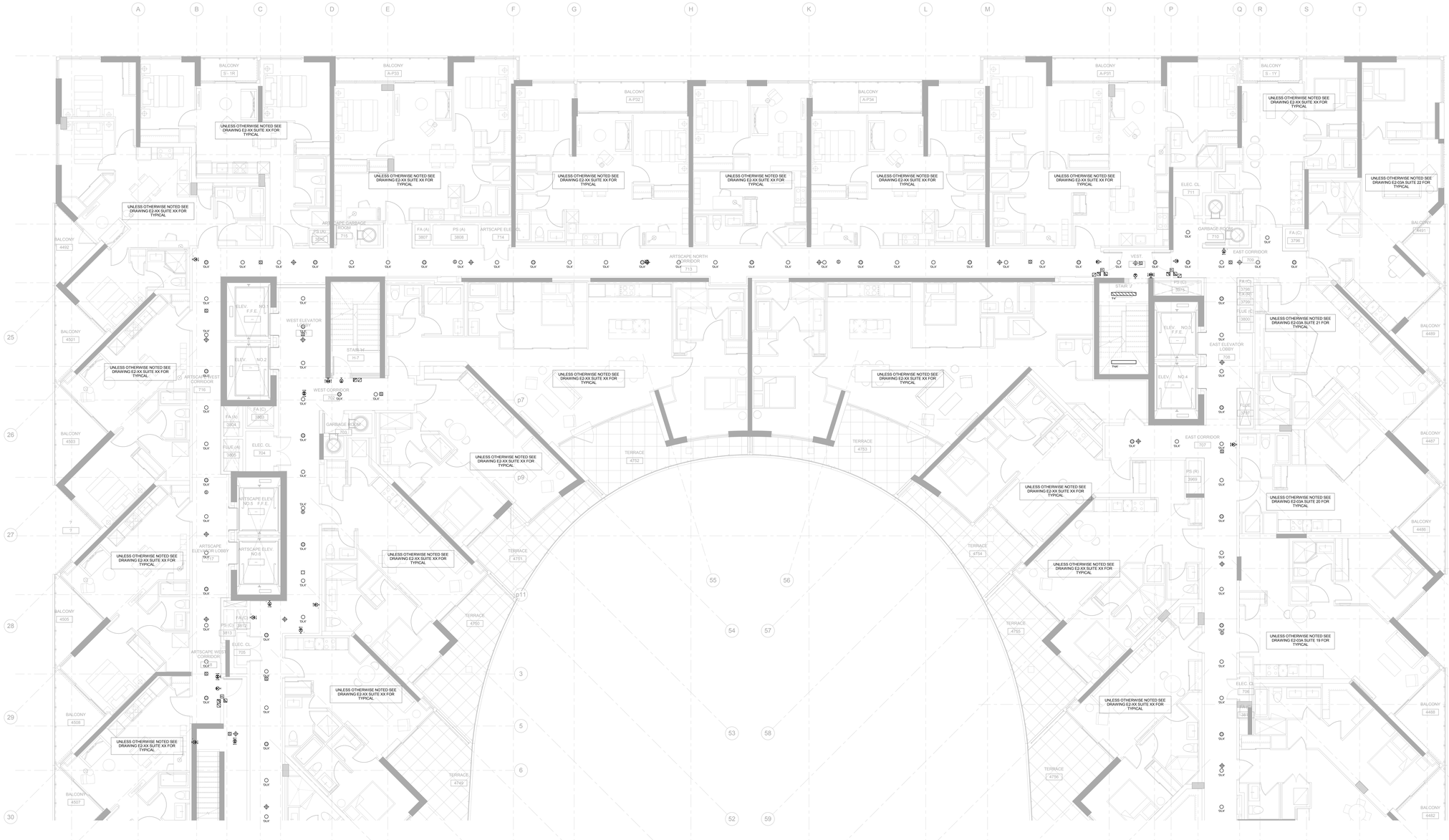
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Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15

N

Drawing No.

E2-07B

Plot Date: 12/06/2015 11:28:43 AM File Path: C:\Users\jcarmichael\Documents\Revit Projects\8489D_R3_R4_central_jcarmichael.rvt



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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

No.	Issued For	Date

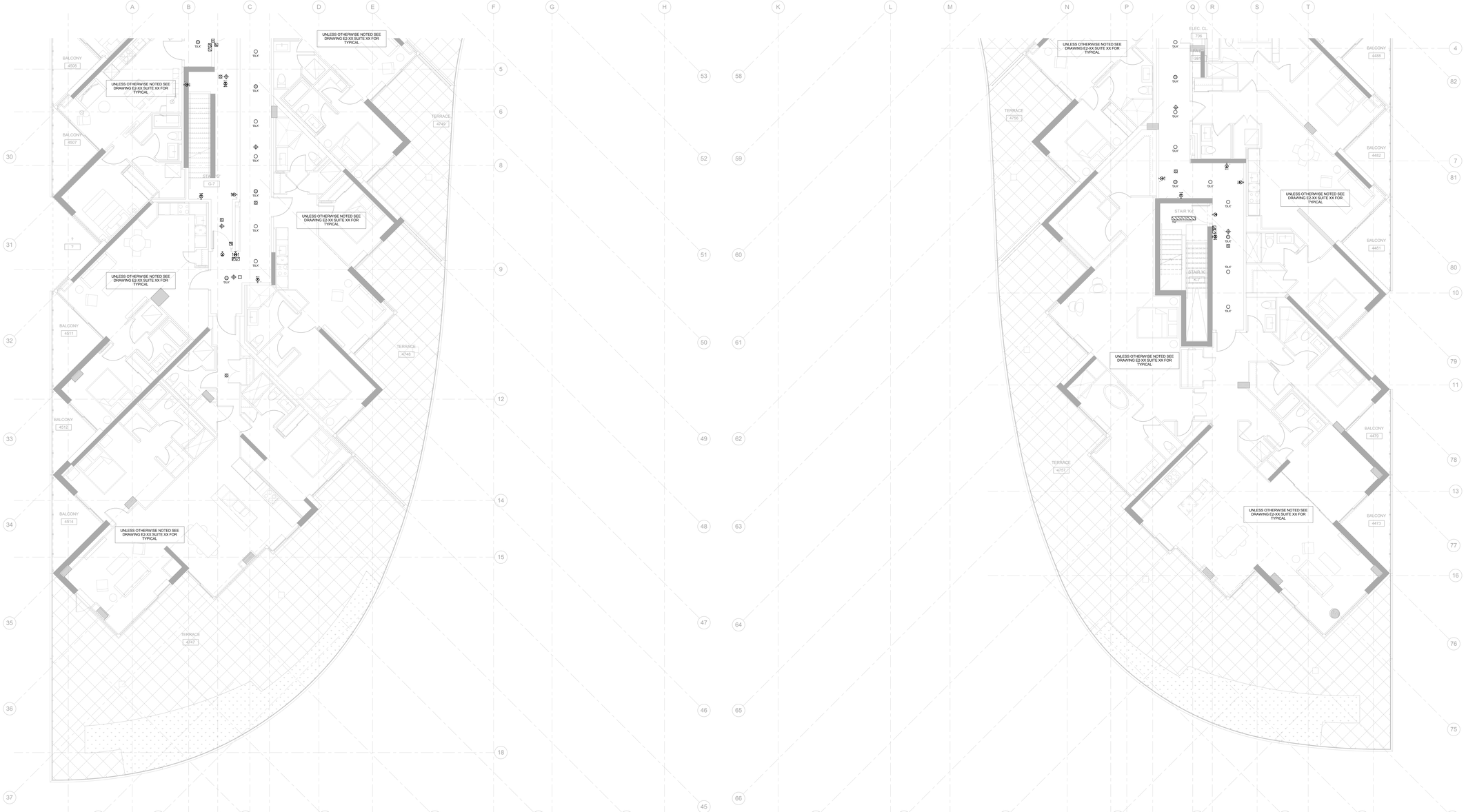
AQUAVISTA
AT BAYSIDE TORONTO

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

Plot Date: 12/09/2015 11:28:49 AM File Path: C:\Users\jbenedictus\Dr. Documents\8489D - Aquavista - MEP_Jbenedictus.rvt



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No.	Revision	Date

No.	Issued For	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

LEVEL 7 FLOOR PLAN
SOUTH - ELECTRICAL

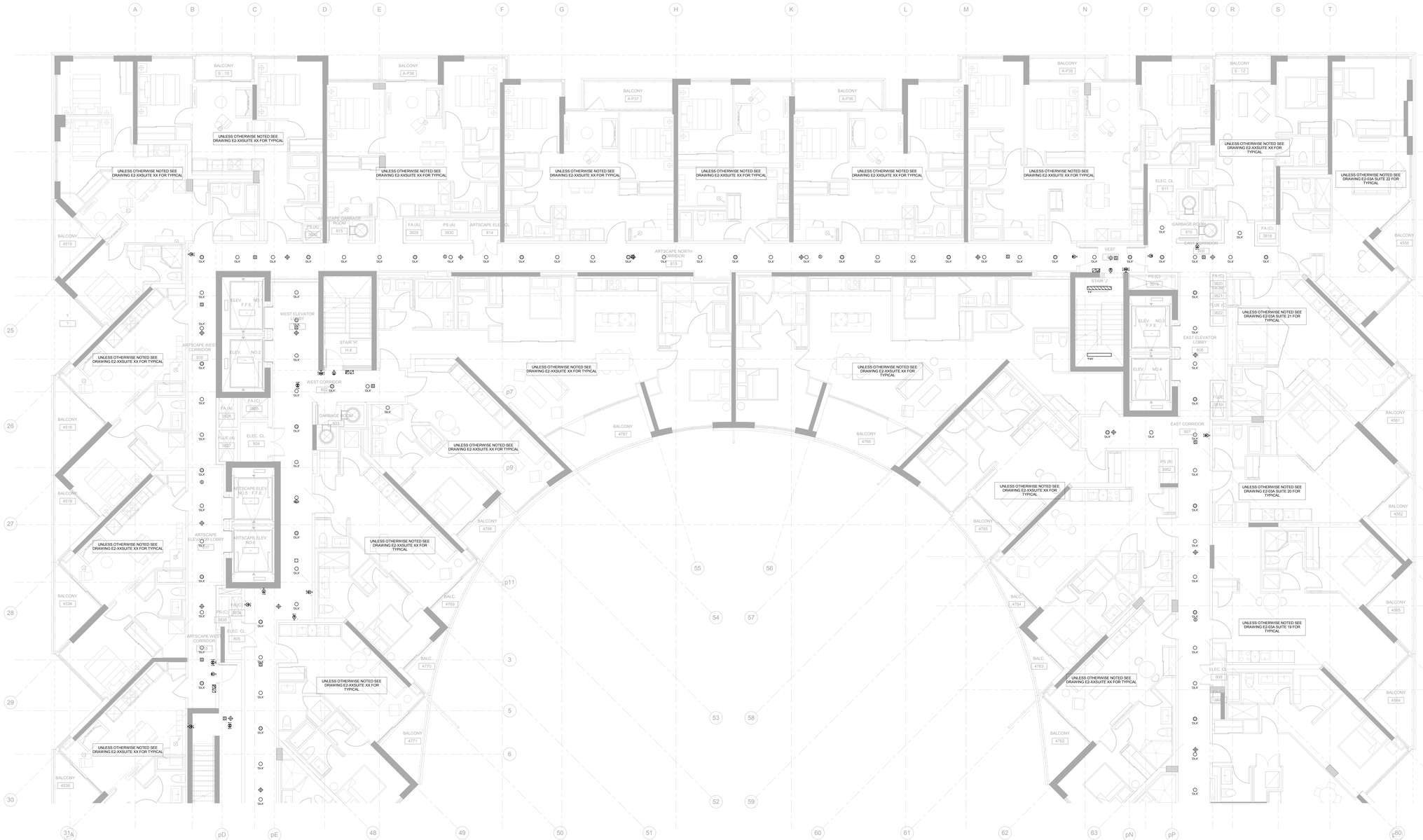
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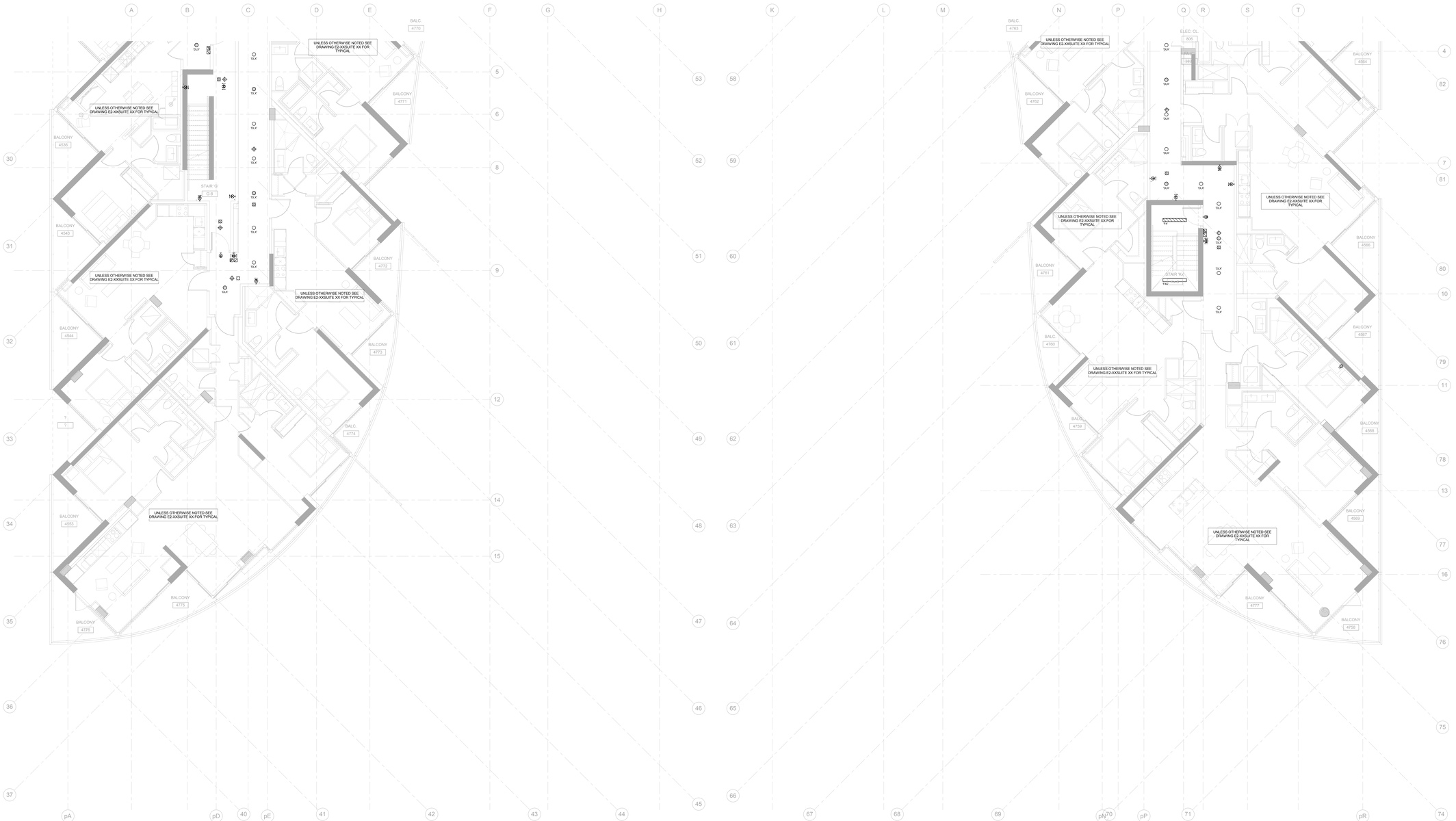
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

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

E2-08B

Plot Date: 12/06/2015 11:38:14 AM File Path: C:\Users\jbenedictus\AppData\Local\Temp\AcPublish_2124\E2-08B.dwg


BALCONY S - 15
BALCONY A-P38
BALCONY A-P37
BALCONY A-P36
BALCONY A-P35
BALCONY S - 12
UNLESS OTHERWISE NOTED SEE DRAWING E2-XXSUITE XX FOR TYPICAL



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No.	Revision	Date

2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-08
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

LEVEL 8 FLOOR PLAN
SOUTH - ELECTRICAL

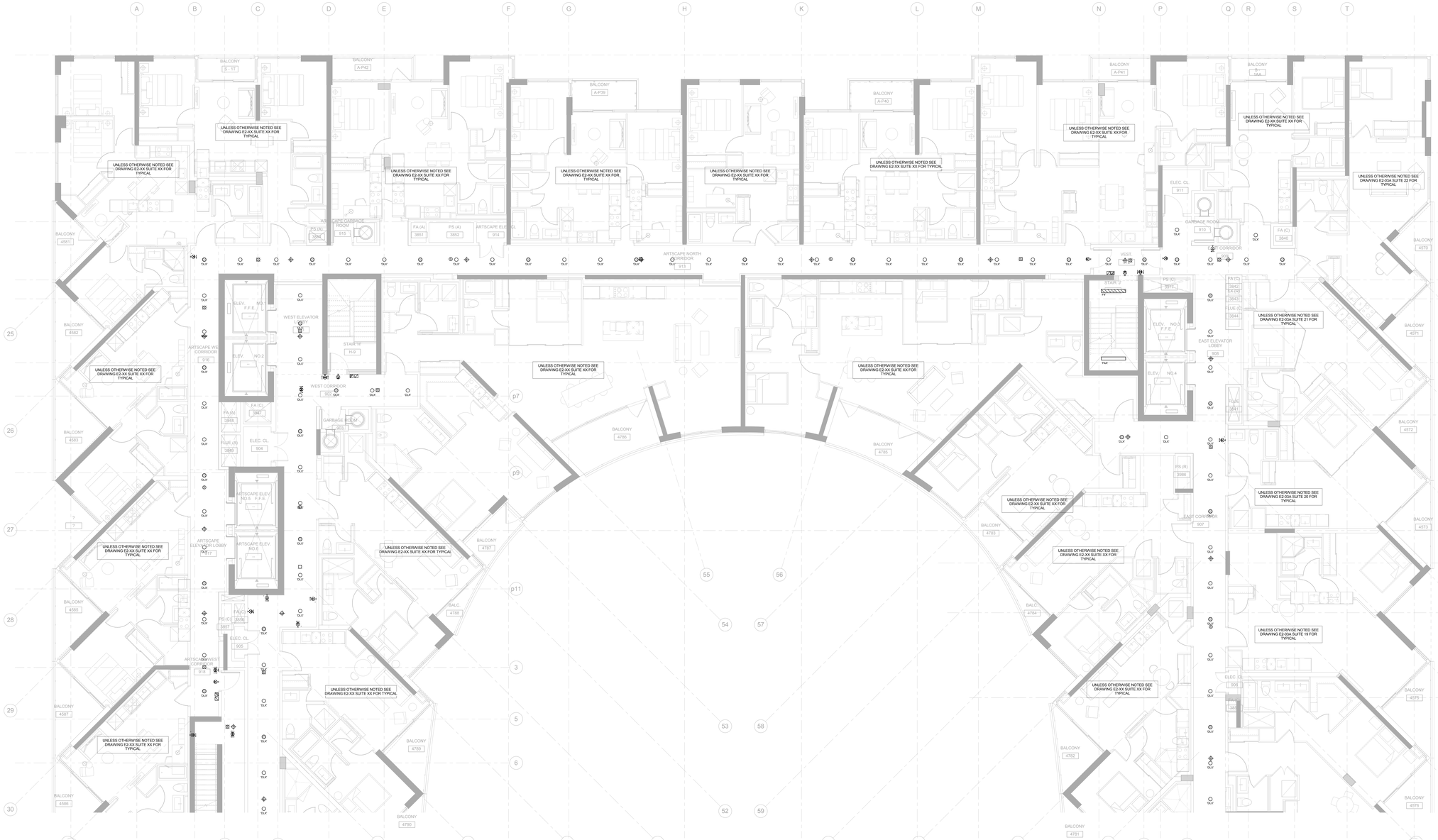
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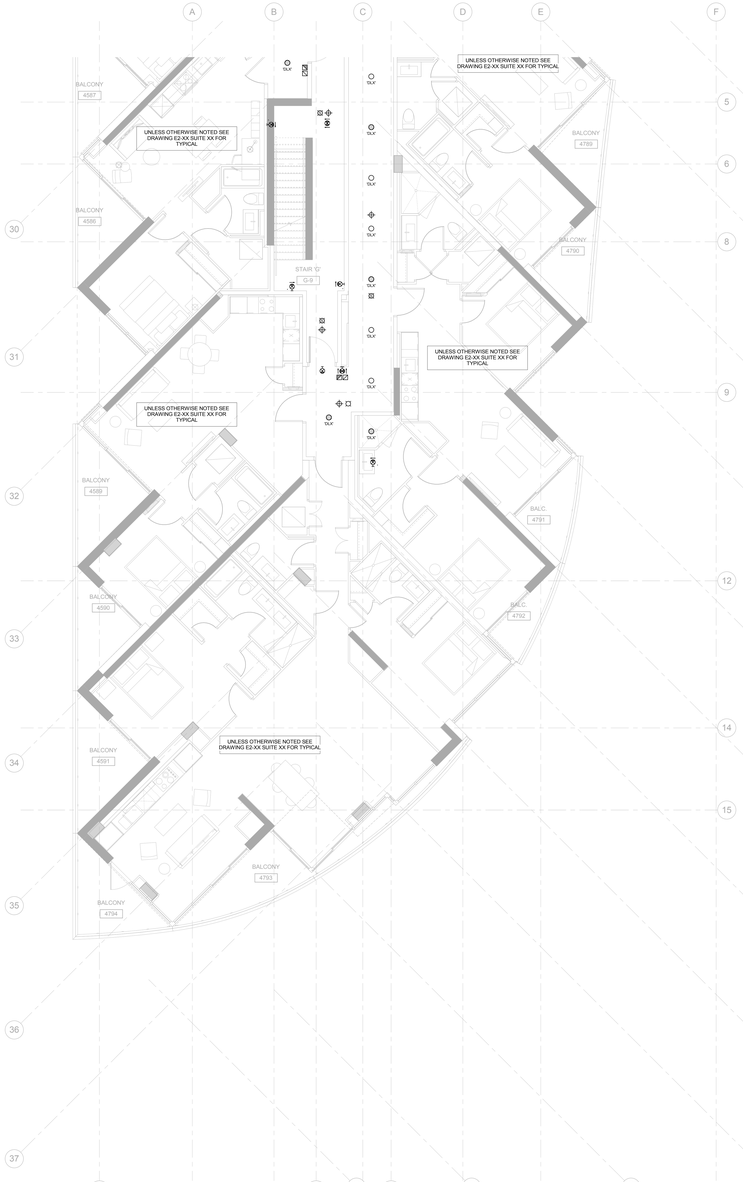
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AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

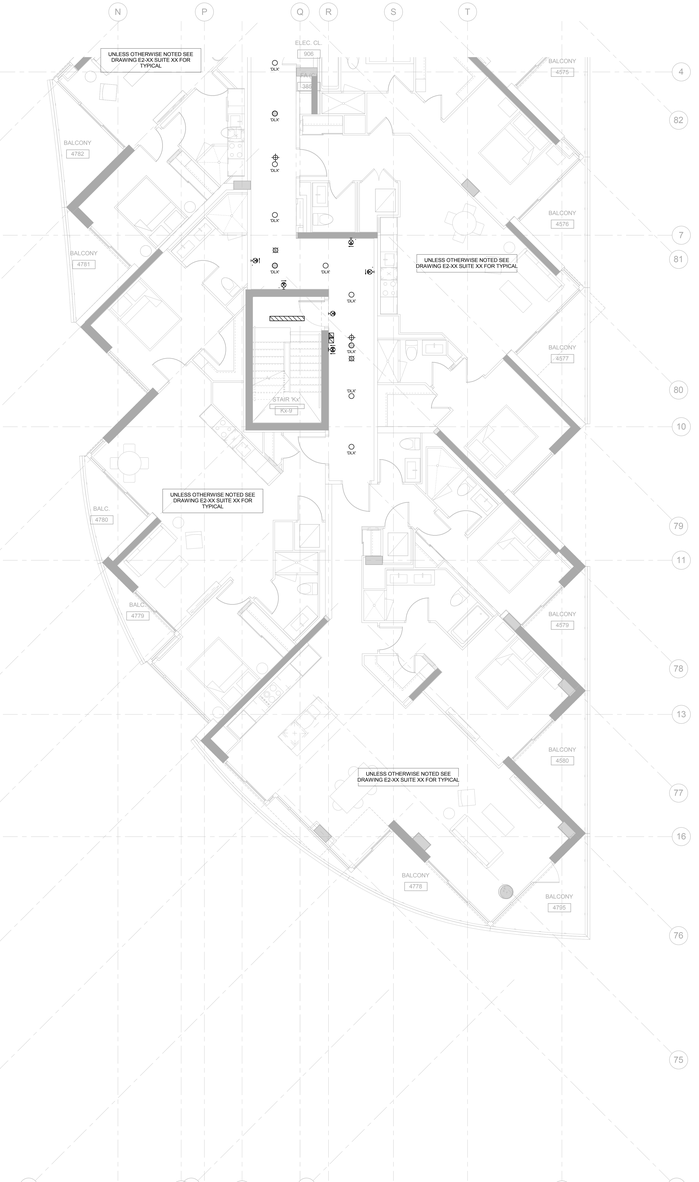
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Checked by: Checker
Project No.: 8489D
Date: 03/09/15
Drawing No.: E2-09B

N

Plot Date: 12/06/2015 11:39:54 AM File Path: C:\Users\jbellamy\Desktop\8489D — Aquavista — MEP_Internal_2015


BALCONY A-17
BALCONY A-P42
BALCONY A-P39
BALCONY A-P40
BALCONY A-P41
BALCONY 1A
UNLESS OTHERWISE NOTED SEE DRAWING E2-XX SUITE XX FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 22 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 21 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 20 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 19 FOR TYPICAL
ARTSCAPE GARBAGE ROOM 915
PS (A) 3894
FA (A) 3851
PS (A) 3852
ARTSCAPE ELEC. CL 914
ARTSCAPE NORTH CORRIDOR 913
ELEC. CL 911
GARBAGE ROOM 910
FA (C) 3840
EAST CORRIDOR 909
VEST
STAIR V
PS (C) 3977
FA (C) 3842
EX (C) 3843
FUE (C) 3844
ELEV. NO.3 P.F.E.
EAST ELEVATOR LOBBY 908
ELEV. NO.4
FUE (C) 3841
PS (R) 3986
EAST CORRIDOR 907
ELEC. CL 906
ELEV. NO.1 P.F.E.
WEST ELEVATOR LOBBY 917
STAIR H
H-9
ELEV. NO.2
ARTSCAPE WEST CORRIDOR 916
WEST CORRIDOR 902
GARBAGE ROOM 903
FA (A) 3845
FA (C) 3982
FUE (A) 3992
ELEC. CL 904
ARTSCAPE ELEV. NO.5 P.F.E.
ARTSCAPE ELEV. LOBBY 917
ARTSCAPE ELEV. NO.6
PS (C) 3826
3827
ELEC. CL 905
ARTSCAPE WEST CORRIDOR 916
BALCONY 4581
BALCONY 4582
BALCONY 4583
BALCONY 4585
BALCONY 4587
BALCONY 4586
BALCONY 4590
BALCONY 4789
BALCONY 4788
BALCONY 4787
BALCONY 4786
BALCONY 4785
BALCONY 4783
BALCONY 4784
BALCONY 4782
BALCONY 4781
BALCONY 4570
BALCONY 4571
BALCONY 4572
BALCONY 4573
BALCONY 4575
BALCONY 4576
UNLESS OTHERWISE NOTED SEE DRAWING E2-XX SUITE XX FOR TYPICAL





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No.	Revision	Date

2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

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

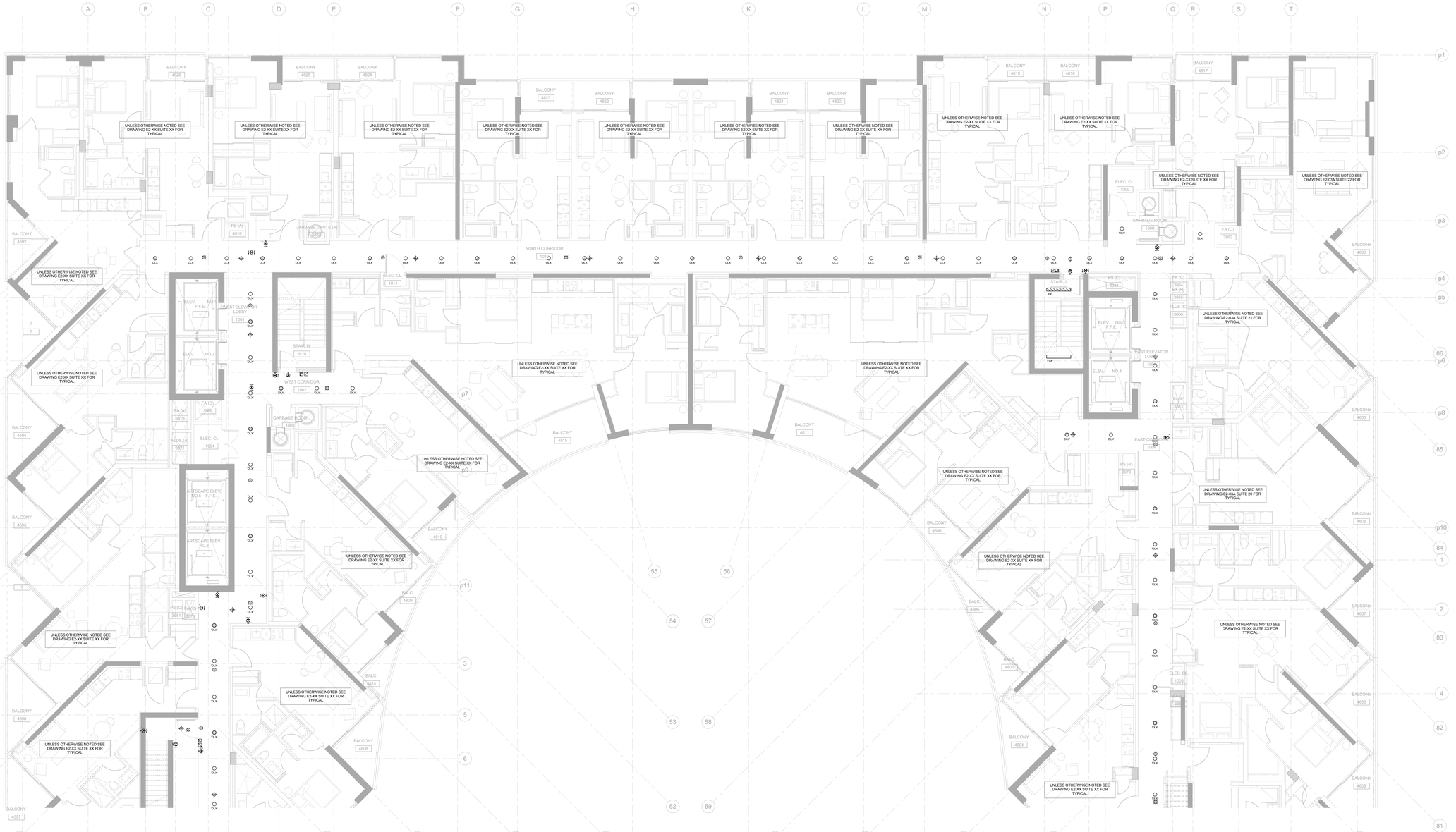
Project No.: 8489D

Date: 03/09/15

Drawing No.:

E2-010B

Plot Date: 12/06/2015 11:35:15 AM File Path: C:\Users\jcarmichael\Documents\8489D - Aquavista - MEP_mhaak_2015



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2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-05

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 10 FLOOR PLAN
NORTH - ELECTRICAL

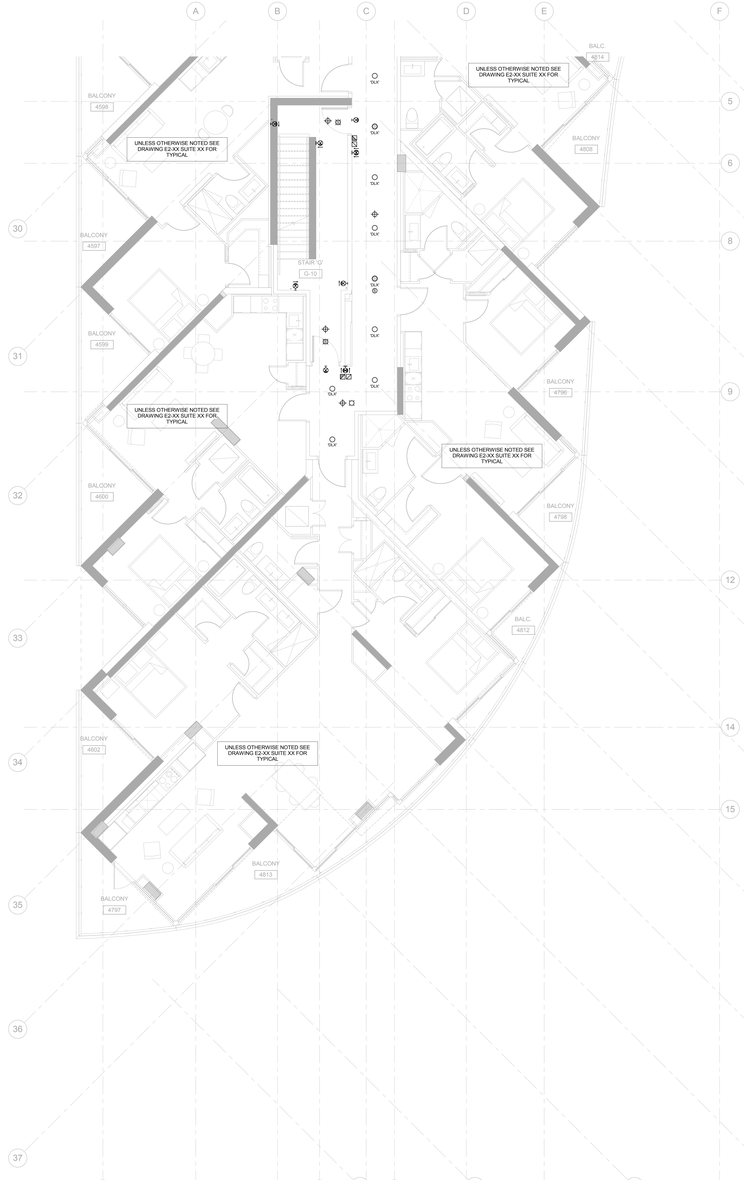
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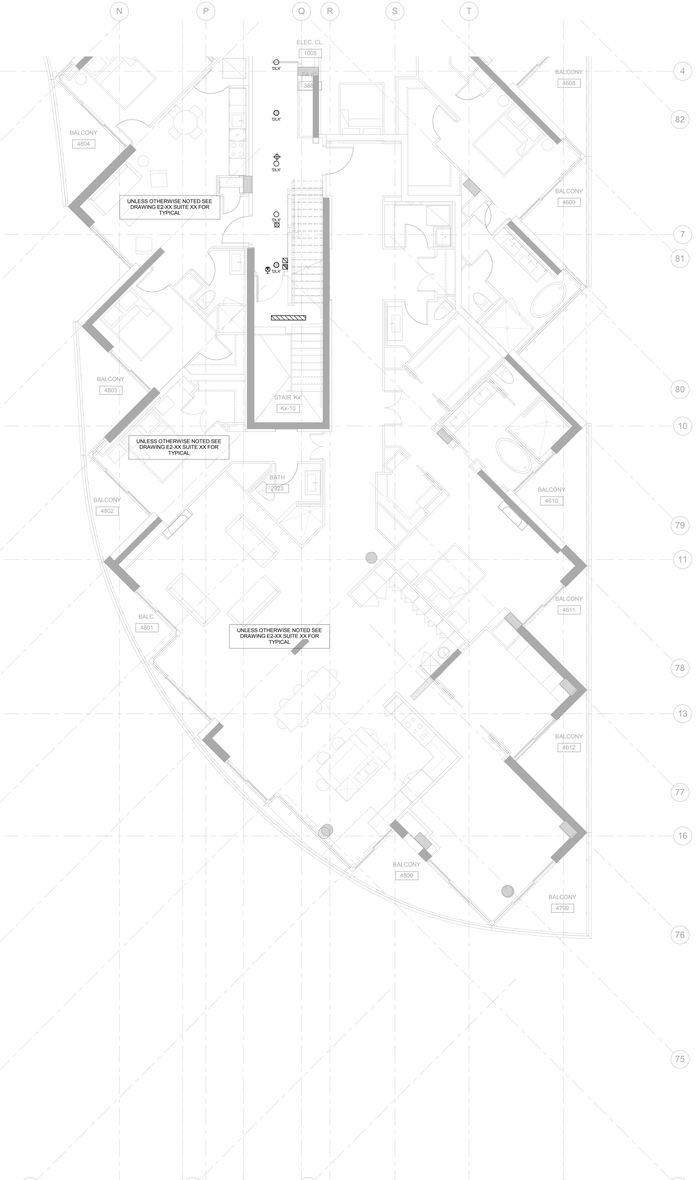
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AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

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

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1	WT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 10 FLOOR PLAN
SOUTH - ELECTRICAL

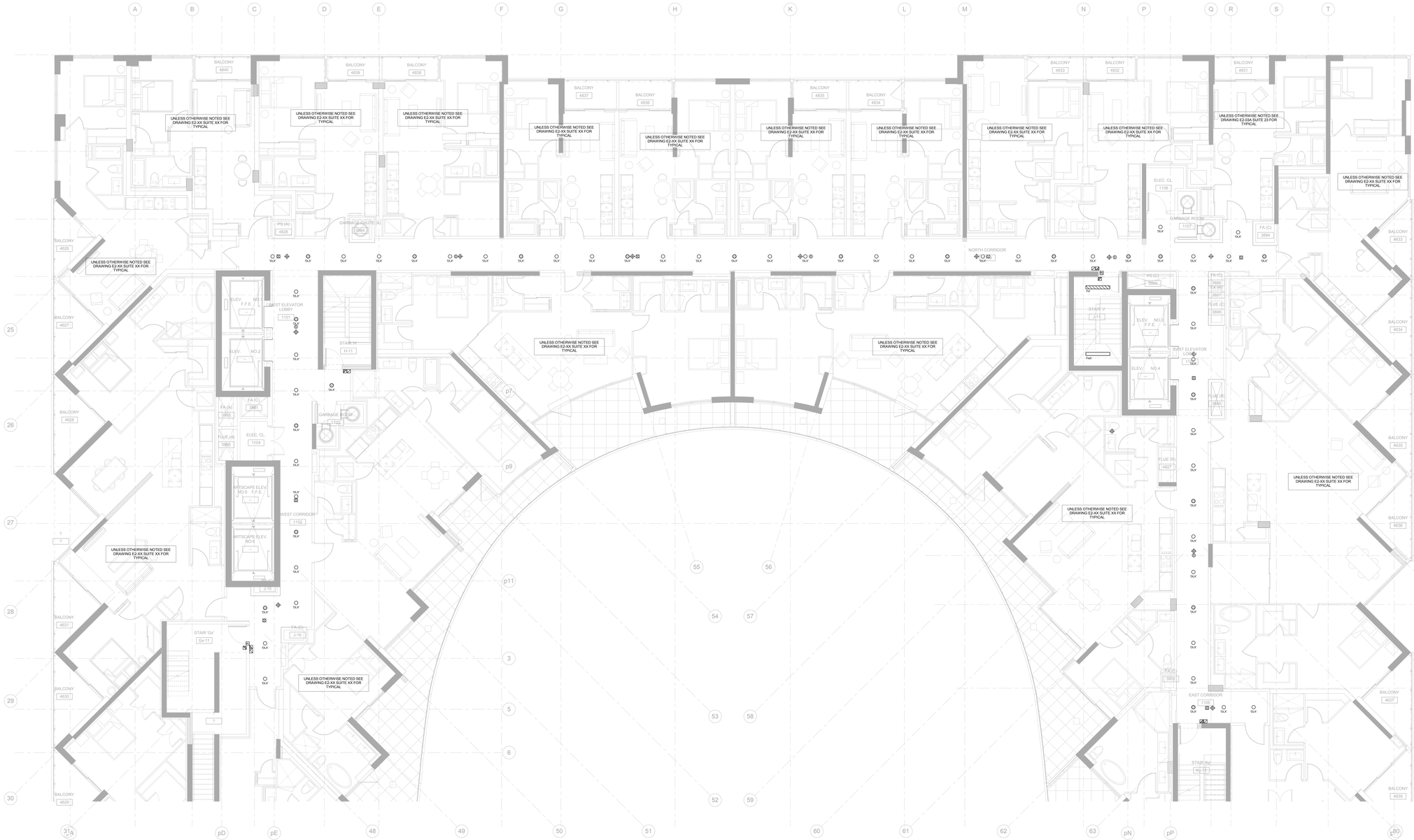
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Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

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

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Plot Date: 12/06/2015 11:29:35 AM File Path: C:\Users\cwilson\Documents\Projects\8489D - Aquavista - MEP_cwilson_2015



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2	BUILDING PERMIT SUBMISSION	2015-06-12
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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

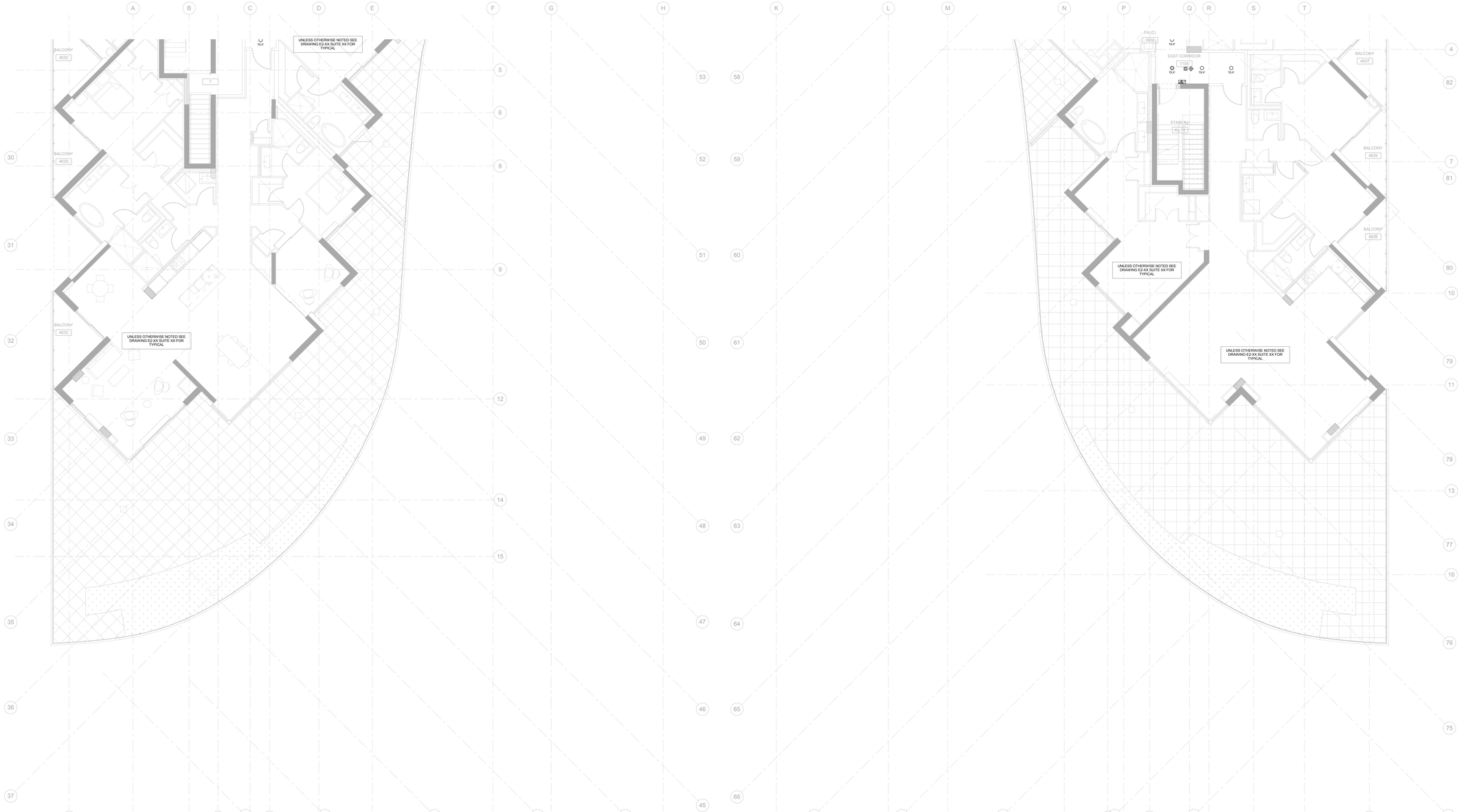
LEVEL 11 FLOOR PLAN
NORTH - ELECTRICAL

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

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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

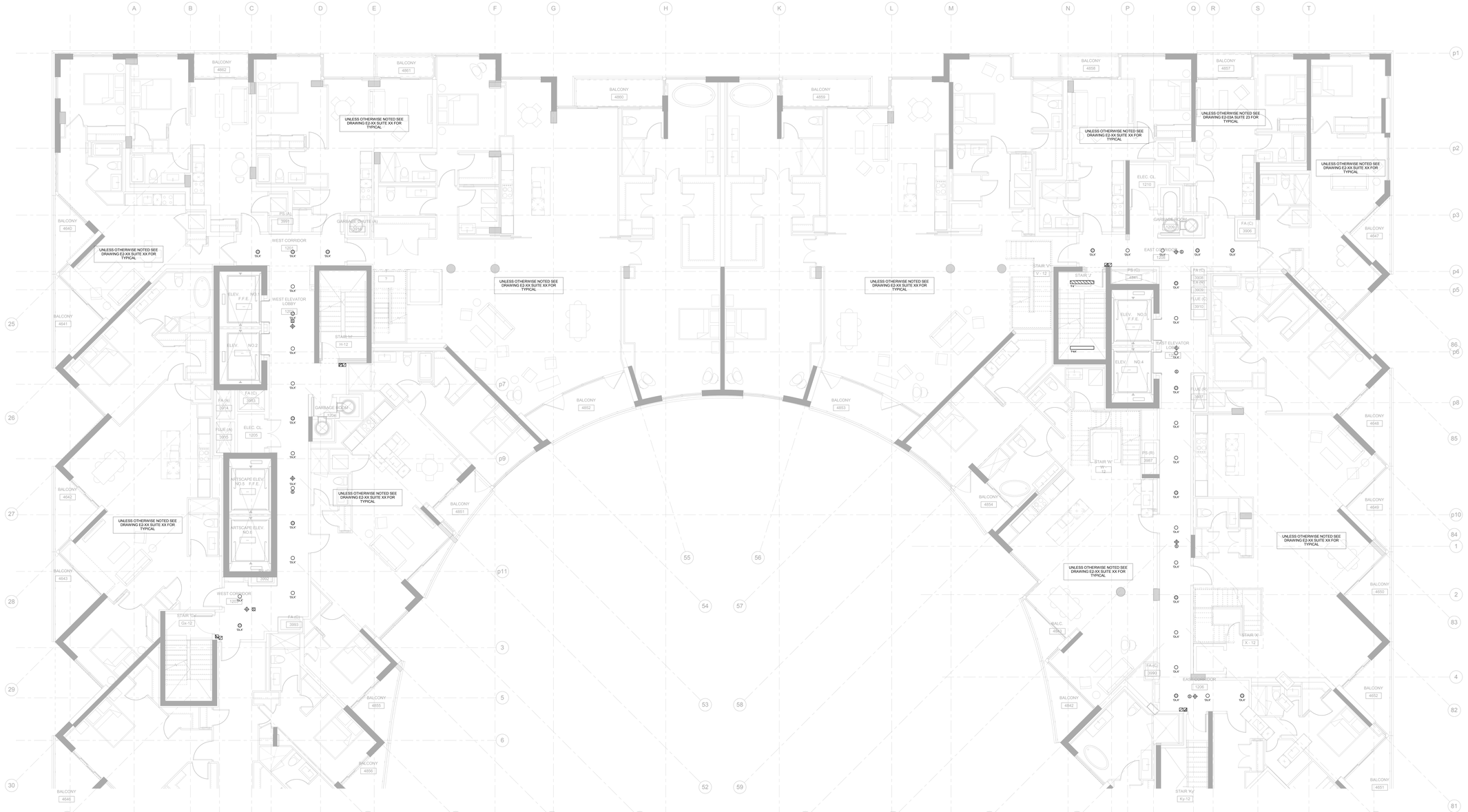
LEVEL 11 FLOOR PLAN
SOUTH - ELECTRICAL

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

Plot Date: 12/06/2015 11:33:33 AM File Path: C:\Users\cwilkinson\Dr\Documents\AMW - Aquavista - MEP_cwilkinson.rvt



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No.	Revision	Date

No.	Issued For	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	BT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

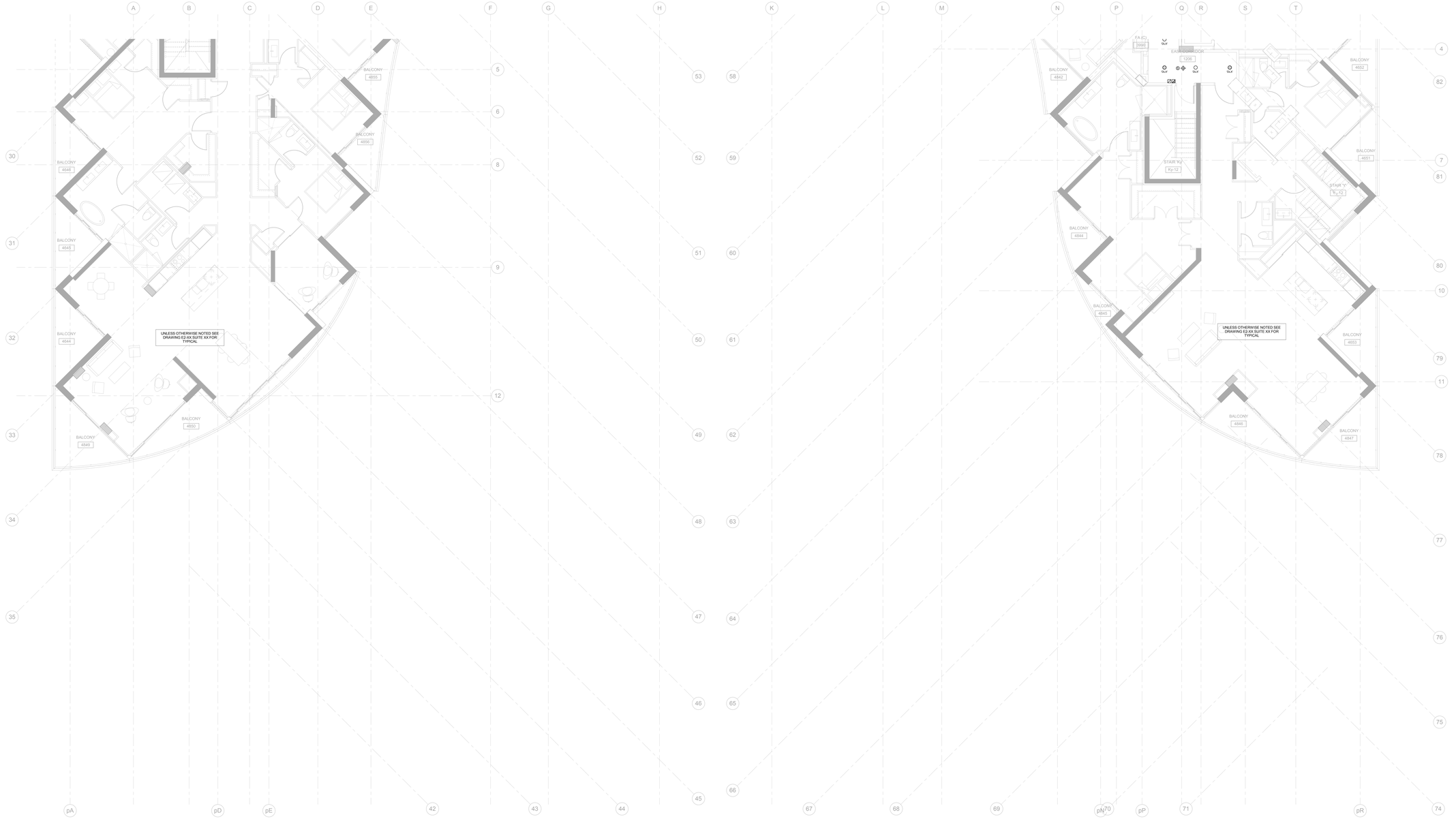
Drawing Title

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
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Project No.	8489D
Date	03/09/15
Drawing No.	E2-13A



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AQUAVISTA
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Drawing Title

LEVEL 12 FLOOR PLAN
SOUTH - ELECTRICAL

Project

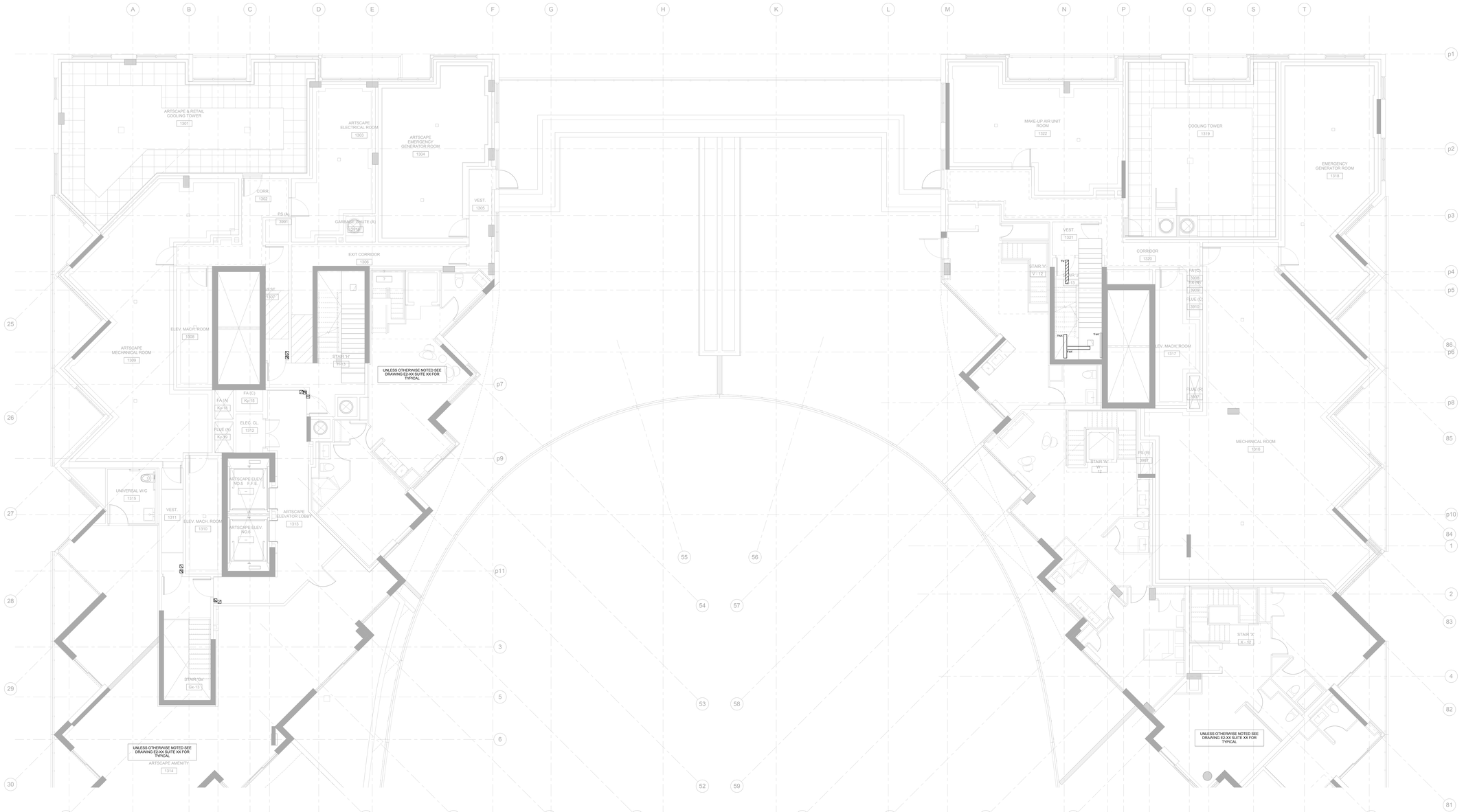
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Toronto, ON

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Project No.	8489D
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E2-13B

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1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 13 FLOOR PLAN
NORTH - ELECTRICAL

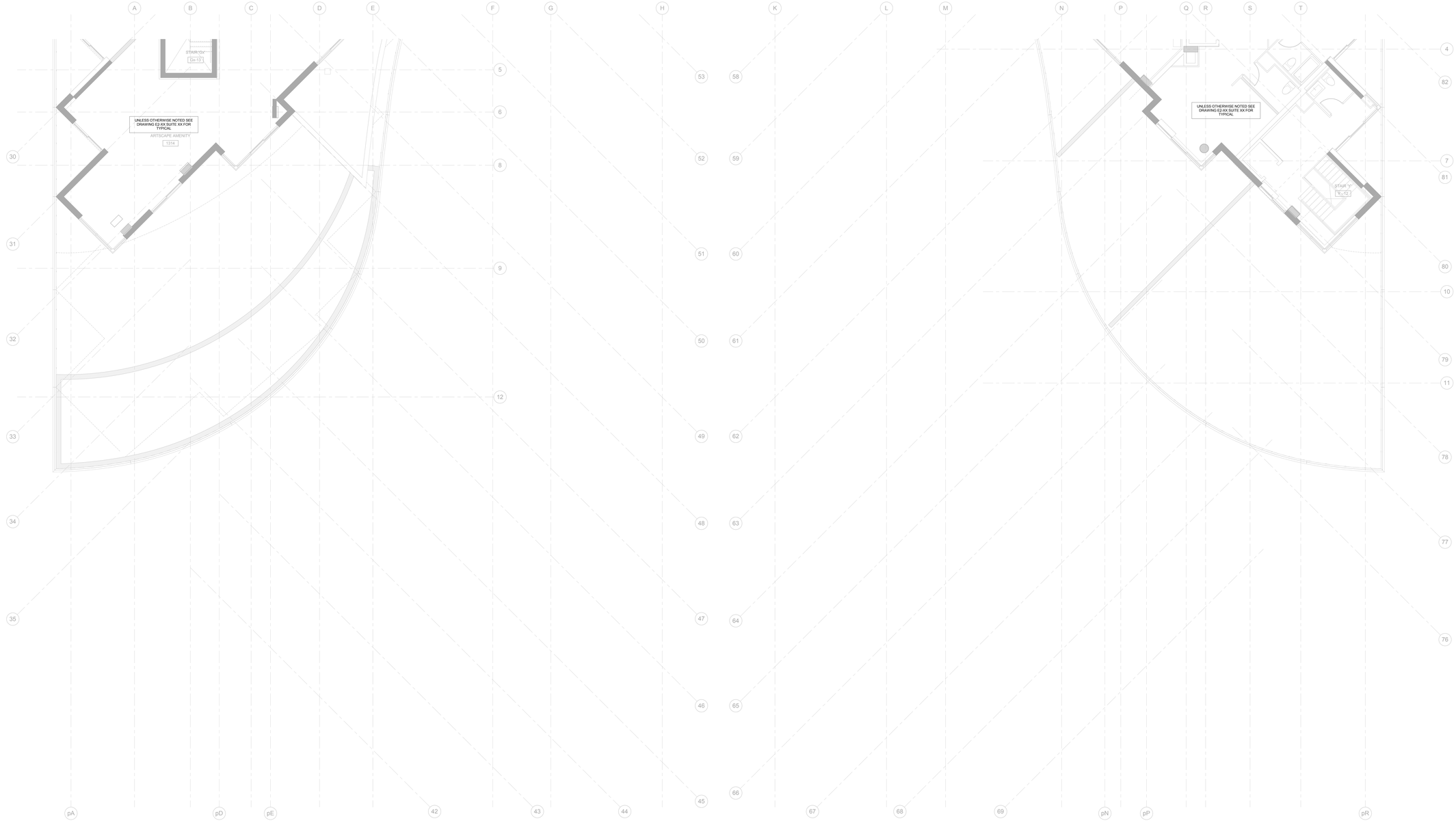
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Queen's Quay East
Toronto, ON

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Date	04/16/15
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No.	Issued For	Date

AQUAVISTA
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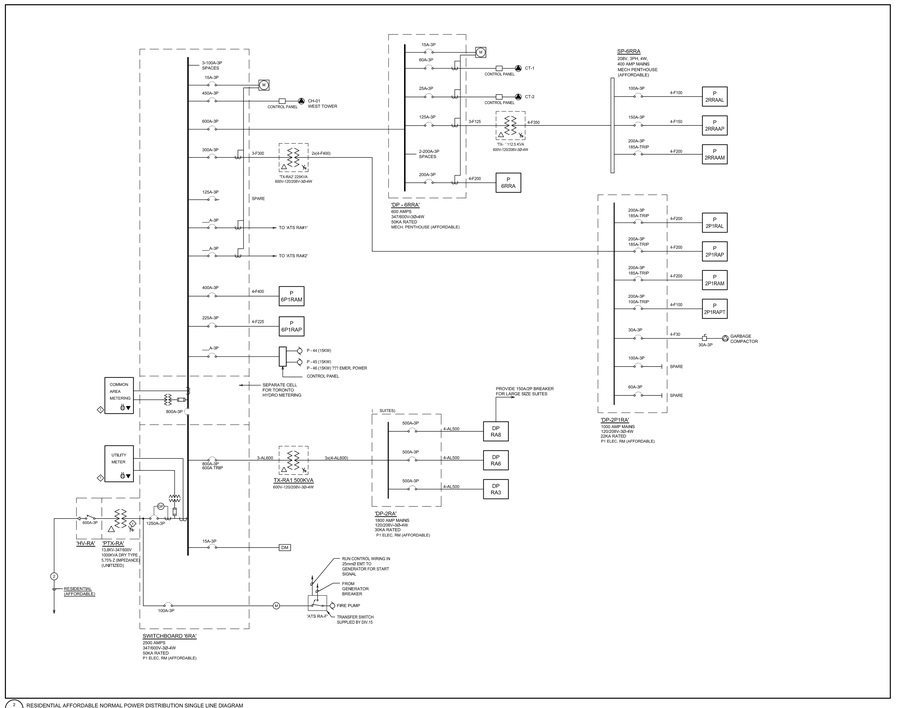
LEVEL 13 FLOOR PLAN
SOUTH - ELECTRICAL

Project

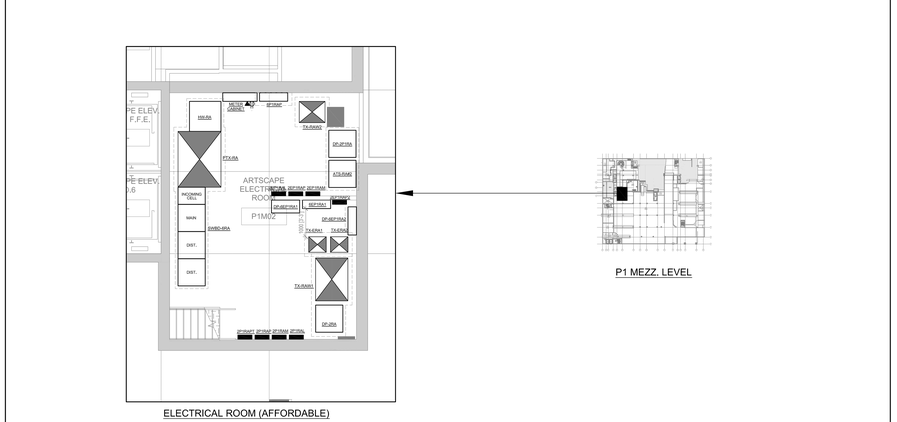
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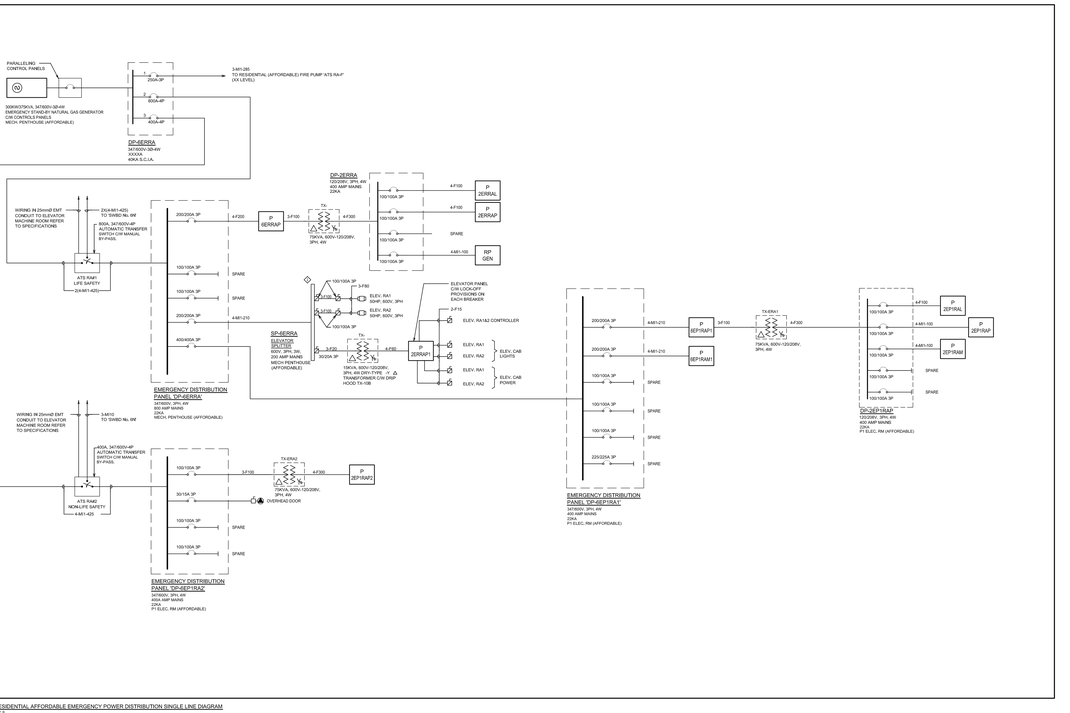
1 RESIDENTIAL AFFORDABLE NORMAL POWER DISTRIBUTION SINGLE LINE DIAGRAM
1/4"=1'-0" N.T.S.



ELECTRICAL ROOM (AFFORDABLE)

P1 MEZZ. LEVEL

2 RESIDENTIAL AFFORDABLE ELECTRICAL ROOM LAYOUT
1/4"=1'-0" N.T.S.



3 RESIDENTIAL AFFORDABLE EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
1/4"=1'-0" N.T.S.



4 RESIDENTIAL AFFORDABLE POWER DISTRIBUTION RISER DIAGRAM
1/4"=1'-0" N.T.S.

600V, 2-HOUR FIRE RATED MC/CABLE SCHEDULE
(ALUMINUM CONDUCTORS WITH COPPER GROUND)

		REF	AMP	SIZE	REF	AMP	SIZE
SINGLE CONDUCTOR		M1-20	20	14	M5-15	15	14/3
		M1-25	25	12	M5-20	20	12/3
		M1-30	30	10	M5-30	30	10/3
		M1-50	50	8	M5-40	40	8/3
		M1-70	100	6	M5-60	60	6/3
		M1-100	135	4	M5-80	80	4/3
		M1-150	155	3			
		M1-175	180	2			
		M1-200	210	1			
		M1-225	245	1/0			
		M1-250	285	2/0			
		M1-300	330	3/0			
		M1-350	385	4/0			
		M1-425	425	250			
		M1-475	480	300			
		M1-600	660	500			
PREFIX = NO. OF CONDUCTORS TWO CONDUCTORS		M2-15	15	14/2	M4-15	15	12/4
		M2-20	20	12/2	M4-20	20	10/4
		M2-30	30	10/2	M4-30	30	8/4
		M2-45	45	8/2	M4-40	60	6/4
		M2-60	60	6/2			
		M2-85	85	4/2			
FOUR CONDUCTORS							
FIVE CONDUCTORS							

CABLE & CONDUIT SCHEDULE - TRIAL

MAX. BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CONNECTED LOAD @40°C	CONDUIT SIZE 4C	CONDUIT SIZE 3C	CONDUIT SIZE 2C	BONDING CONDUCTOR
90	AL3C	#2	90	76	41(1-1/4")	35(1-1/4")	35(1-1/4")	#6
100	AL3C	#1	100	85	41(1-1/4")	35(1-1/4")	35(1-1/4")	#6
125	AL12B	#2/0	135	114	53 (2")	53 (2")	-	#4
150	AL12B	#3/0	155	140	63 (2 1/2")	53 (2")	-	#4
200	AL28B	250MCM	205	154	78 (3")	63 (2 1/2")	-	#2
225	AL22S	300MCM	230	208	78 (3")	78 (3")	-	#2
250	AL28B	350MCM	260	224	78 (3")	78 (3")	-	#1
300	AL20D	2 RUNS OF 3/0AWG MC NEAL	310	280	-	-	-	#1
400	AL40D	2 RUNS OF 250MCM MC NEAL	410	336	-	-	-	#2
500	AL50D	2 RUNS OF 350MCM MC NEAL	500	448	-	-	-	#2
600	AL60D	2 RUNS OF 500MCM MC NEAL	625	560	-	-	-	#1
800	AL80D	3 RUNS OF 500MCM MC NEAL	810	732	-	-	-	#2

NOTE:
1. ALL CABLE SHALL BE RW90 XLPE 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 300A.
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. MC DENOTES MULTI CONDUCTOR.
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 (F APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.

CABLE & CONDUIT SCHEDULE - COPPER

MAX. BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CONNECTED LOAD @40°C	CONDUIT SIZE 4C	CONDUIT SIZE 3C	CONDUIT SIZE 2C	BONDING CONDUCTOR
70	F1S	#12	25	24	41 (3/4")	41 (3/4")	41 (3/4")	#12
80	F2S	#12	25	24	41 (3/4")	41 (3/4")	41 (3/4")	#12
90	F3S	#10	35	32	27 (1")	21 (3/4")	21 (3/4")	#10
100	F4S	#8	50	40	27 (1")	27 (1")	27 (1")	#8
70	F6S	#6	65	64	35/1 1/4")	35/1 1/4")	27 (1")	#8
90	F8S	#4	85	76	41(1 1/4")	35(1 1/4")	35 (1 1/4")	#6
100	F10S	#3	100	92	41(1 1/4")	35(1 1/4")	35(1 1/4")	#6
125	F12S	#1	130	116	53 (2")	53 (2")	-	#6
150	F14S	1/0	150	128	53 (2")	53 (2")	-	#6
200	F20S	2/0	200	184	63 (2 1/2")	63 (2 1/2")	-	#4
225	225SR	4/0S	175	-	63 (2 1/2")	-	-	#6
250	F25S	4/0S	230	208	78 (3")	63 (2 1/2")	-	#4
250	F25S	250MCM	255	232	78 (3")	78 (3")	-	#4
300	F30S	350MCM	310	280	91 (3 1/2")	91 (3 1/2")	-	#2
350	F35S	500MCM	385	344	103 (4")	103 (4")	-	#2
400	F40S	600MCM	425	360	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 300A.
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 F20SR 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 (F APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.

NOTES:

1. TO BE CONFIRMED WITH TORONTO HYDRO.
2. 20A MULTIPOLE LIGHTING CONTACTOR FOR EXTERIOR LIGHTING, 120VAC COIL C/W TYPE 1 METAL ENCLOSURE, REFER TO DRAWING FOR INDIVIDUAL VOLTAGE RATING, REFER TO PLAN FOR EXACT CIRCUITS TO BE CONTROLLED.
3. PROVIDE FRAME BLOCK OUTLINE AND SINGLE LINE DIAGRAM AS PER OESC 36-006 AND MOUNT IN EACH ELECTRICAL ROOM.
4. SECONDARY NEUTRAL 'XO' SHALL BE GROUNDED TO THE SUBSTATION ELECTRODE WITH A 3/0 AWG COPPER CONDUCTOR.
5. SECONDARY NEUTRAL 'XO' 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 'XO' 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 REMOTE METERING (RMS).
   1) 1" EMT CONDUIT C/W BUSHINGS AT BOTH ENDS IS TO BE INSTALLED BETWEEN THE REVENUE METERING CABINET AND THE BELL TELEPHONE ROOM (PUNCH BOARD). THE ¼" EMT IS TO TERMINATE AT THE TOP RIGHT CORNER OF THE METER CABINET. A 2 PAIR (4 CONDUCTOR) TELEPHONE CABLE IS TO BE INSTALLED IN THE ¼" CONDUIT. A RJ11 (4 PIN) TELEPHONE JACK IS ALSO TO BE PROVIDED AND INSTALLED ON THE TELEPHONE CABLE IN THE METER CABINET. THE TELEPHONE JACK IS TO BE LEFT AT THE END OF THE TELEPHONE CABLE WITH 1.5M OF SLACK. THE TELEPHONE CABLE IS TO BE CLEARLY LABELED IN THE METER CABINET. THE TELEPHONE CABLE TERMINATING IN THE TELEPHONE ROOM IS TO BE CLEARLY LABELED "TORONTO HYDRO METERING".
   2) TORONTO HYDRO WILL ARRANGE TO HAVE THE TELEPHONE LINE ACTIVATED. CUSTOMER OWNED TELEPHONE LINES OR CUSTOMER SHARED TELEPHONE LINES ARE NOT ACCEPTABLE.
   3) 1 - 120 VOLT DUPLEX RECEPTACLE, TO BE LOCATED INSIDE, AT THE BOTTOM RIGHT CORNER OF THE METER CABINET. THE RECEPTACLE IS TO BE CONNECTED TO AN UNINTERRUPTIBLE POWER SUPPLY (UPS) IF POSSIBLE.
   4) THE NAME AND PHONE NUMBER OF AN ON SITE CONTACT PERSON.
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. RUN SIGNAL WIRING TO DOMESTIC WATER PUMP CONTROLLER ON EMERGENCY FOR SIGNAL TO CONTROL PUMPS AS PER MEP DRAWINGS.
11. VACUUM CIRCUIT BREAKER SHALL MEET ALL REQUIREMENT OF TORONTO HYDRO CUSTOMER OWNED SUBSTATION STANDARD.
12. OVER CURRENT, PHASE & GROUND FAULT RELAY.
13. PROVIDE GALVANIZED CHAIN LINK FENCE IN FRONT & SIDE OF INCOMING CELL TO PROTECT HYDRO WIRES. GROUND FENCE AS REQUIRED AND TO TORONTO HYDRO STANDARD.

ELECTRICAL PANEL AND CIRCUIT DESIGNATION

1. SECTION 3 - 'D' - DENOTES CIRCUIT NUMBER
   - 'W' - DENOTES WEST TOWER OR EAST TOWER
   - 'P' - DENOTES POWER AND/OR LIGHTING PANEL
   - 'E' - DENOTES EMERGENCY PANEL (IF LEVEL)
   - 'E' - DENOTES EMERGENCY PANEL
   - '2' - DENOTES 120/208V OR
   - '6' - DENOTES 347/600V
2. ADDITIONAL POWER DESIGNATION
   LAST LETTER 'P' OF THE PANEL DESIGNATION IS REPLACED WITH FOLLOWING LETTERS FOR DIFFERENT OTHER TYPE OF PANELS.
   - OD - OUTDOOR LIGHTING
   - AL - AMENITY LIGHTING
   - AP - AMENITY POWER
   - AM - AMENITY MECHANICAL POWER
   - CP - COMMERCIAL PARKING GARAGE
   - CR - COMMERCIAL RETAIL
   - RA - RESIDENTIAL AFFORDABLE
   - RC - RESIDENTIAL CONDO
   - RCW - RESIDENTIAL CONDO (WEST TOWER)
   - SL - SNOW LIGHTING
   - SM - SNOW MELTING
   - M - MECHANICAL POWER
3. IF THERE ARE MORE THAN ONE PANEL ON SAME FLOOR WITH SAME DESIGNATION, THEY ARE DIFFERENTIATED BY ADDING A, B, C, ETC., AFTER THE LAST LETTER OF THE PANEL DESIGNATION.

7 FEEDER SCHEDULES AND NOTES
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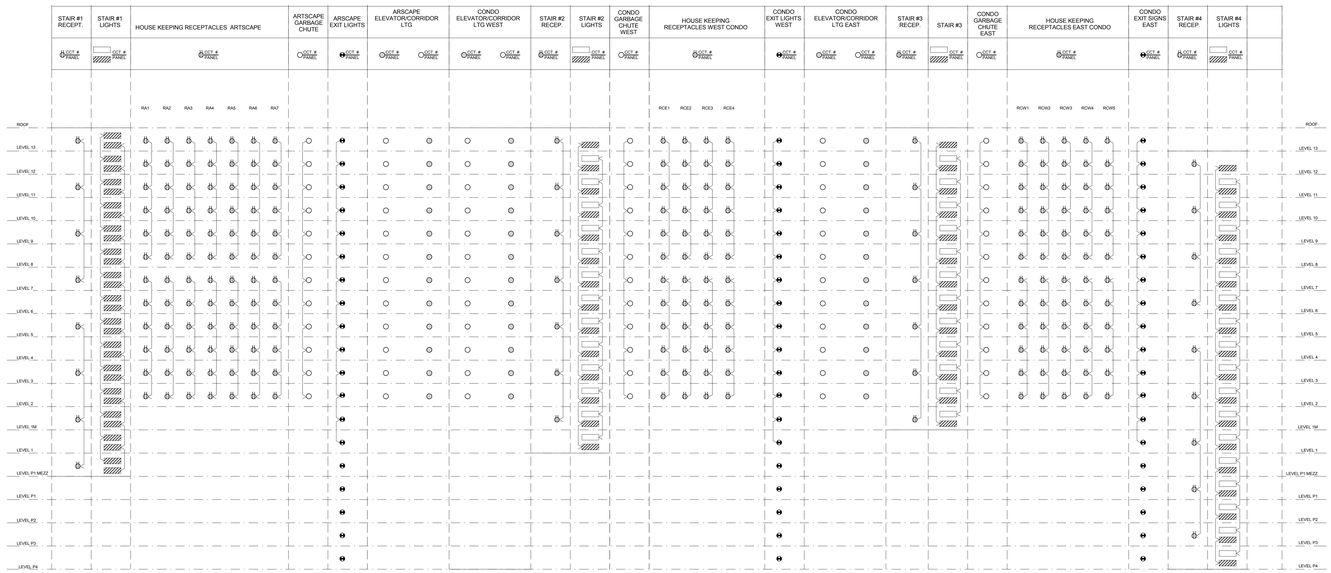
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
ARTSCAPE - SINGLE LINE DIAGRAM

Project
[redacted]
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

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Drawing No.	E3-A-01

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1 ARTSCAPE - COMMON AREA LIGHTING & POWER RISER DIAGRAM, DISPOSAL SYSTEM ROUGH-IN RISER
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Drawing Title

ARTSCAPE - COMMON AREA LIGHTING & POWER RISER DIAGRAM, DISPOSAL SYSTEM ROUGH-IN RISER

Project

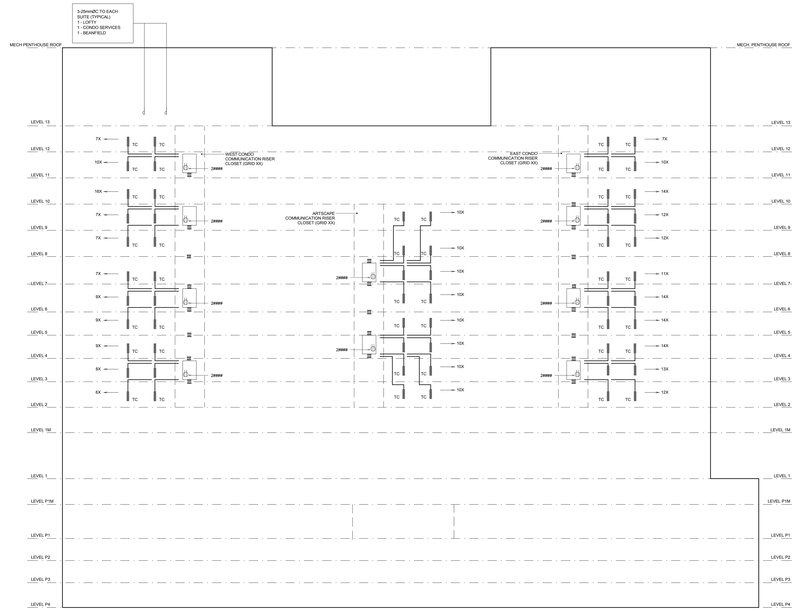
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1 COMMUNICATION RISER DIAGRAM ARTSCAPE
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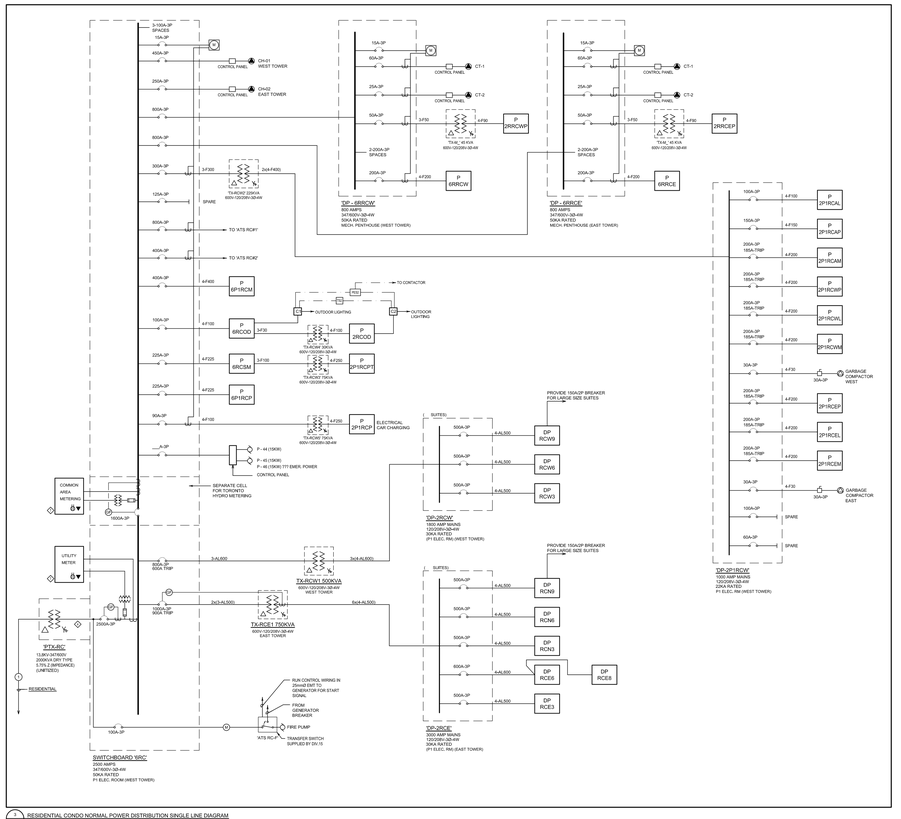
ARTSCAPE -
COMMUNICATION
SYSTEM RISER DIAGRAM

Project

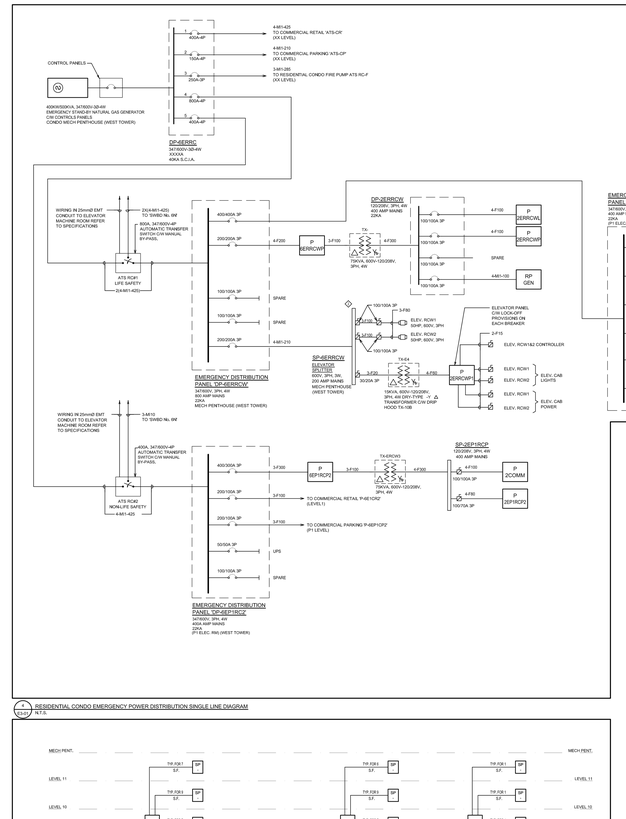
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Date: 03/09/15
Drawing No.: E3-A-04

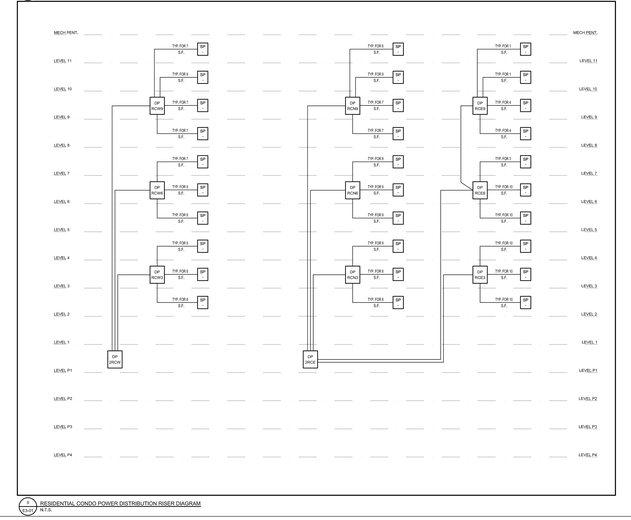
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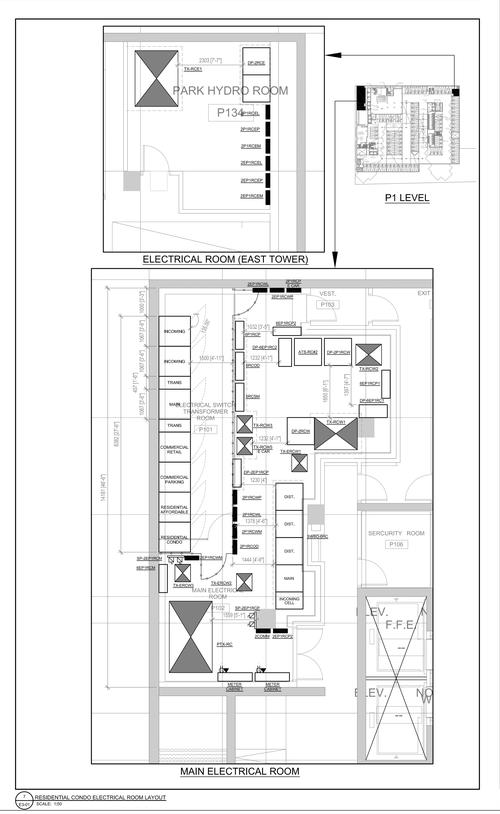
1 RESIDENTIAL CONDO NORMAL POWER DISTRIBUTION SINGLE LINE DIAGRAM
SCALE: N.T.S.



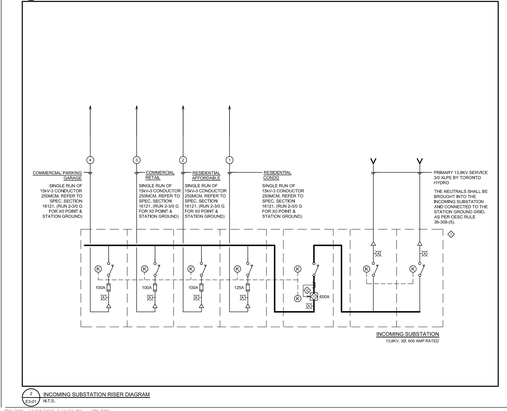
2 RESIDENTIAL CONDO EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
SCALE: N.T.S.



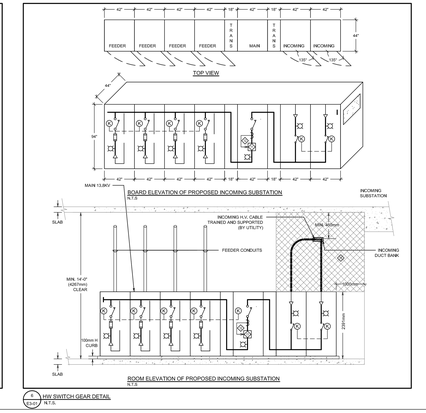
3 RESIDENTIAL CONDO POWER DISTRIBUTION RISER DIAGRAM
SCALE: N.T.S.



4 HW SWITCH GEAR DETAIL
SCALE: N.T.S.



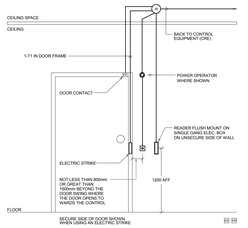
5 INCOMING SUBSTATION RISER DIAGRAM
SCALE: N.T.S.



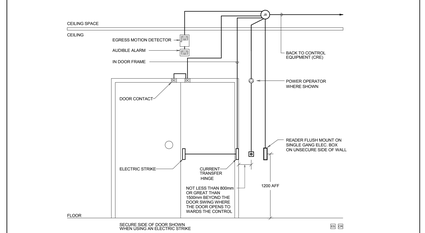
6 HW SWITCH GEAR DETAIL
SCALE: N.T.S.

7 RESIDENTIAL CONDO ELECTRICAL ROOM LAYOUT
SCALE: 1:50

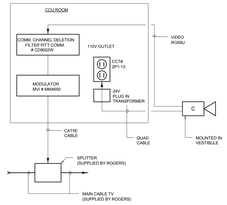
INCOMING
TRANS
MAIN ELECTRICAL SWITCH TRANSFORMER
COMMERCIAL RETAIL
COMMERCIAL PARKING
RESIDENTIAL AFFORDABLE
RESIDENTIAL CONDO
MAIN ELECTRICAL ROOM
P103
P101
P106
SECURITY ROOM
ELEV. F.F.E.
ELEV. NO
MAIN
INCOMING CELL
METER CENTRE
METER CENTRE
TX-RCH1
TX-RCH2
TX-RCE1
TX-RCW1
TX-RCW2
CLASSIFIED
DP-2RCW
DP-2RCM
DP-2RCE
ATS-RC#2
ATS-RC#1
2P-HCWP
2P-HCWL
2P-HCEP
2P-HCEL
2P-HCAP
2P-HCAL
2EP-HCWP
2EP-HCEP
2EP-HCAP
2EP-HCAL
2COMM
2EP-HCWL
2EP-HCEL
2EP-HCM
2P-HCOD
2P-HCM
SP-2EP-HCP
SP-4EP-HCP
SP-2P-HCP
SP-4P-HCP
SP-2EP-HCWP
SP-4EP-HCP
SP-2P-HCWP
SP-4P-HCP
SP-2P-HCEP
SP-4P-HCP
SP-2P-HCAP
SP-4P-HCP
SP-2P-HCEP
SP-4P-HCP
SP-2P-HCAP
SP-4P-HCP
SP-2P-HCWP
SP-4P-HCP
SP-2P-HCWL
SP-4P-HCP
SP-2P-HCEL
SP-4P-HCP
SP-2P-HCEP
SP-4P-HCP
SP-2P-HCAL
SP-4P-HCP
SP-2P-HCAP



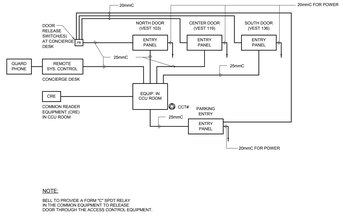
4 SECURED SINGLE DOOR WITH ELECTRIC STRIKE
N.T.S



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

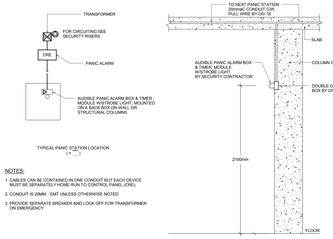


2 LOBBY CAMERA INSTALLATION
N.T.S



NOTE:
BELL TO PROVIDE A FORM "C" SPDT RELAY
IN THE COMMON EQUIPMENT TO RELEASE
DOOR THROUGH THE ACCESS CONTROL EQUIPMENT.

1 ENTERPHONE SYSTEM
N.T.S

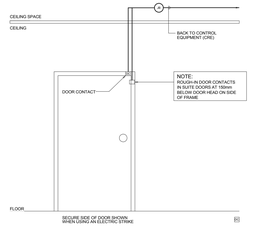


INSTALLATION DETAIL

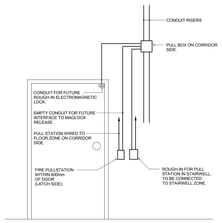
NOTES:

1. CABLES CAN BE CONTAINED IN ONE CONDUIT BUT EACH DEVICE MUST BE SEPARATELY HOME RUN TO CONTROL PANEL (CRE).
2. CONDUIT IS 20MM - EMT UNLESS OTHERWISE NOTED
3. PROVIDE SEPARATE BREAKER AND LOCK OFF FOR TRANSFORMER ON EMERGENCY.

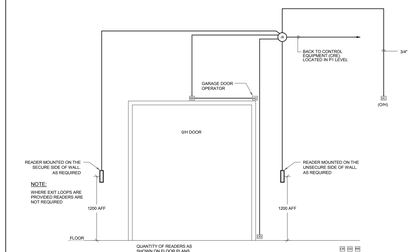
8 PANIC ALARM SYSTEM DETAILS
1 : 1



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



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



6 SECURED OVERHEAD GARAGE DOOR
N.T.S

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Date: 03/09/15

D. C. M. BELLAMY
100150683
PROVINCE OF ONTARIO

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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

No.	Issued For	Date

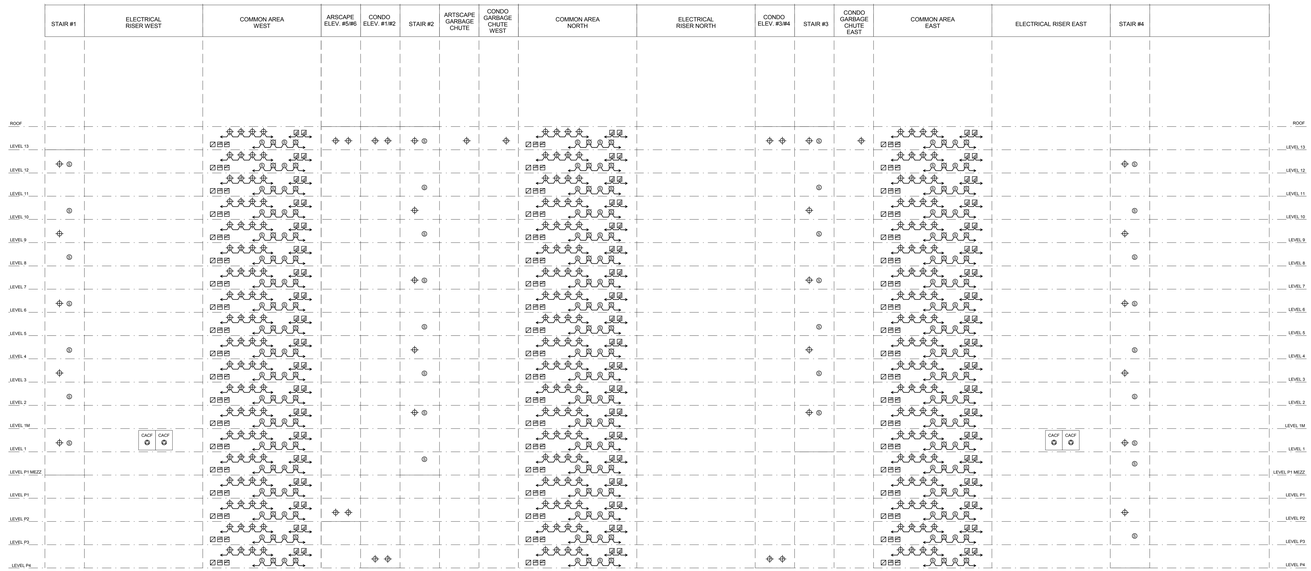
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - SECURITY RISER DIAGRAM & DETAILS

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

Scale
1 : 1
Drawn by
Author
Checked by
Checker
Project No.
8489D
Date
03/09/15
Drawing No.
E3-C-02

Plot Date - 12:05:39 Tue Feb C:\Users\jsilvestro\AppData\Local\Temp\AcPublish_2\E3-C-02.dwg



1 FIRE ALARM RISER DIAGRAM
N.T.S

THE FIRE ALARM SYSTEM SHALL BE A MODIFIED TWO STAGE SYSTEM PROGRAMMED TO ALARM FIRE FLOOR FLOOR ABOVE AND FLOOR BELOW WHILE ALERT TONES ARE PROVIDED THROUGHOUT THE REST OF THE BUILDING. ALL ELEVATORS SHALL RECALL TO GROUND FLOOR AND SHALL BE ALARMED ON ACTIVATION OF ANY DEVICE ON ANY GARAGE LEVEL.

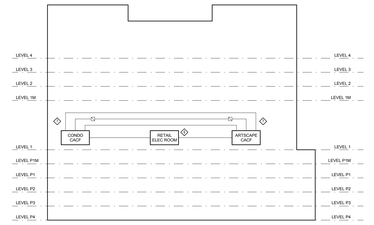
NOTES:

1. REFER TO SPEC SECTION 16110 FOR ELEVATOR SHAFT/MACHINE ROOM FUNCTIONS.
2. A STAIR SHALL INCLUDE THE STAIR AND ITS LINKED EXIT CORRIDOR S/HSON ON FLOOR PLAN.
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 CIRCUIT.
7. SEPARATE SIGNALS SHALL BE PROVIDED TO ELEVATOR CONTROLLER AS FOLLOWING:
   - GENERAL FIRE ALARM SIGNAL(NOT 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 AND 'ALL CALL 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.



2 FIRE ALARM SYSTEM INTERCONNECTION SCHEMATIC
N.T.S

NOTES:

1. FIRE ALARM SYSTEM MUST BE COMMON WITH SEPARATE ALARM CONTROL FACILITYCACP) AS SHOWN.
2. EACH CACP SHALL CONTROL VOICE COMMUNICATION FOR ALL PARKING LEVELS AND LOWER GRADE AMENITY SPACES IN THE PORTION OF THE BUILDING THAT THE CACP SERVES. EACH CACP SHALL SEND MESSAGES ON ALL LOUDSPEAKERS IN ALL PORTIONS OF THE PROJECT VIA AN ALL CALL CONTROL PANEL LOCATED IN THE MAIN FIRE ALARM ROOM. ALL FIRE ALARM CONTROL EQUIPMENT PERTAINING TO THE ABOVE-GRADE PORTION OF THE BUILDING SERVICED BY THE CACP AS WELL AS SMOKE CONTROL EQUIPMENT FOR ALL ENTIRE PARKING LEVELS AND AMENITY SPACES ON LOWER GRADE LEVELS.
3. EACH CACP SHALL BE PROVIDED WITH LIGHTS THAT INDICATE IF SMOKE CONTROL EQUIPMENT PERTAINING TO BELOW-GRADE LEVELS AND LOWER GRADE AMENITY SPACE HAVE BEEN ACTIVATED AT THE OTHER CACP. EACH CACP SHALL ALSO INDICATE IF SMOKE CONTROL EQUIPMENT FOR ALL ABOVE-GRADE SMOKE CONTROL EQUIPMENT CONTROLLED AT THE OTHER CACP.
4. EACH ANNUNCIATOR TO DISPLAY ALL BELOW-GRADE ZONES AND LOWER GRADE AMENITY SPACES, AS WELL AS ALL FLOORS ABOVE THE GROUND.

◇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.

◇4 PROVIDE 4-50mmØC BETWEEN CACP ROOMS FOR SYSTEM INTERCONNECTION AS REQUIRED INCLUDING ELEVATOR MONITORING.

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Date: 03/06/15

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Dayton Nanaimo Trail Saint John

No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IFT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

CONDO - FIRE ALARM 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: 03/06/15
Drawing No: E3-C-03

Plot Date: 12/06/2015 11:43:37 AM File Path: C:\Users\jsilvestro\Desktop\8489D — Aquavista — MEP_Interiors_2015

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

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS ALARM	REGISTERED AS TROUBLE	INITIATE AS	DISPLAY
ZP4-1	U/G PARKING LEVEL P4 - NORTH	PS/SD/MPS	✓		R1	R1 & R2
ZP4-2	U/G PARKING LEVEL P4 - SOUTH	PS/SD/MPS	✓		R2	R1 & R2
ZP4-3	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (P4/01)	SD	✓		R1	R1 & R2
ZP4-4	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (P4/08)	SD	✓		R2	R1 & R2
ZP4-5	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (P4/14)	SD	✓		R2	R1 & R2
ZP4-6	U/G PARKING LEVEL P4 - BOILER ROOM (HIGH TEMPERATURE)	FS/HD	✓		R1	R1 & R2
ZP4-7	U/G PARKING LEVEL P4 - CHILLER ROOM	FS/HD	✓		R1	R1 & R2
ZP4-8	U/G PARKING LEVEL P4 - ELEVATOR MACHINE ROOM (P4/16)	SD	✓		R1	R1 & R2
ZP4-9	U/G PARKING LEVEL P4 - ELEVATOR MACHINE ROOM (P4/17)	SD	✓		R1	R1 & R2
ZP3-1	U/G PARKING LEVEL P3 - NORTH	PS/SD/MPS	✓		R1	R1 & R2
ZP3-2	U/G PARKING LEVEL P3 - SOUTH	PS/SD/MPS	✓		R2	R1 & R2
ZP3-3	U/G PARKING LEVEL P3 - ELEVATOR LOBBY (P3/01)	SD	✓		R1	R1 & R2
ZP3-4	U/G PARKING LEVEL P3 - ELEVATOR LOBBY (P3/08)	SD	✓		R2	R1 & R2
ZP3-5	U/G PARKING LEVEL P3 - ELEVATOR LOBBY (P3/13)	SD	✓		R2	R1 & R2
ZP3-6	U/G PARKING LEVEL P3 - FRESH AIR UNIT	FS/HD	✓		R1	R1 & R2
ZP3-7	U/G PARKING LEVEL P3 - ELEVATOR MACHINE ROOM (P3/15)	SD	✓		R1	R1 & R2
ZP2-1	U/G PARKING LEVEL P2 - NORTH	PS/SD/MPS	✓		R1	R1 & R2
ZP2-2	U/G PARKING LEVEL P2 - SOUTH	PS/SD/MPS	✓		R2	R1 & R2
ZP2-3	U/G PARKING LEVEL P2 - ELEVATOR LOBBY (P2/01)	SD	✓		R1	R1 & R2
ZP2-4	U/G PARKING LEVEL P2 - ELEVATOR LOBBY (P2/08)	SD	✓		R2	R1 & R2
ZP2-5	U/G PARKING LEVEL P2 - ELEVATOR LOBBY (P2/13)	SD	✓		R2	R1 & R2
ZP2-6	U/G PARKING LEVEL P2 - GARBAGE ROOM (..)	HD/FS	✓		R1	R1 & R2
ZP2-7	U/G PARKING LEVEL P2 - GARBAGE ROOM (ARTSCAPE)	HD/FS	✓		R2	R1 & R2
ZP2-8	U/G PARKING LEVEL P2 - ELEVATOR MACHINE ROOM (P2/17)	SD	✓		R1	R1 & R2
ZP2-9	U/G PARKING LEVEL P2 - RES. MOVING VEST. (P2/13)	SD	✓		R2	R1 & R2
ZP2-10	U/G PARKING LEVEL P2 - COMM. DELIVERY HOLDING (P2/11)	SD	✓		R2	R1 & R2
ZP2-11	U/G PARKING LEVEL P2 - GARBAGE HOLDING (P2/12)	SD	✓		R2	R1 & R2
ZP1-1	U/G PARKING LEVEL P1	PS/SD/MPS	✓		R2	R1 & R2
ZP1-2	U/G PARKING LEVEL P1 - AMENITY	FS/SD/MPS	✓		R1	R1 & R2
ZP1-3	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P1/01)	SD	✓		R1	R1 & R2
ZP1-4	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P1/31)	SD	✓		R2	R1 & R2
ZP1-5	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P1/43)	SD	✓		R2	R1 & R2
ZP1-6	U/G PARKING LEVEL P1 - HYDRO VAULT	SD	✓		R1	R1 & R2
ZP1-7	U/G PARKING LEVEL P1 - ELETRICAL ROOM (P1/34)	SD	✓		R1	R1 & R2
ZP1-8	U/G PARKING LEVEL P1 - ELETRICAL ROOM (P1/38)	SD	✓		R2	R1 & R2
ZP1-9	U/G PARKING LEVEL P1 - ELETRICAL ROOM (P1/43)	SD	✓		R2	R1 & R2
ZP1-10	U/G PARKING LEVEL P1 - PARK ELETRICAL ROOM (P1/48)	SD	✓		R2	R1 & R2
ZP1-11	U/G PARKING LEVEL P1 - CCU / COMMUNICATION ROOM	SD	✓		R2	R1 & R2
ZP1-12	U/G PARKING LEVEL P1 - SPA MECH ROOM (P1/24)	SD	✓		R1	R1 & R2
ZP1M-1	U/G PARKING LEVEL P1M - STORAGE	FS/MPS	✓		R2	R1 & R2
ZP1M-2	U/G PARKING LEVEL P1M - ELEVATOR LOBBY (P1M/01)	SD	✓		R2	R1 & R2
ZP1M-3	U/G PARKING LEVEL P1M - SPRINKLER ROOM	FS/HD	✓		R2	R1 & R2
ZH1-1-1	LEVEL 1- TOWER 1 - LOBBY	FS/SD	✓		R1	R1 & R2
ZH1-1-2	LEVEL 1 - TOWER 1 - ELEVATOR LOBBY (1/02)	SD/MPS	✓		R1	R1 & R2
ZH1-1-3	LEVEL 1 - TOWER 1 - RETAIL	FS/MPS	✓		R1	R1 & R2
ZH1-1-4	LEVEL 1 - TOWER 1 - METAL SERVICE CORRIDOR (1/20)	SD	✓		R1	R1 & R2
ZH1-1-5	LEVEL 1 - TOWER 1 - RETAIL GROUND FLOOR WINDOW SPRINKLER	FS	✓		R1/R2	R1 & R2
ZH1-1-6	LEVEL 1 - TOWER 1 - RETAIL 2ND FLOOR WINDOW SPRINKLER	FS	✓		R1/R2	R1 & R2
ZH1M-1	LEVEL 1 MEZZANINE - TOWER 1	SD	✓		R1	R1 & R2
ZH1-2-1	LEVEL 2 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-2-2	LEVEL 2 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-2-3	LEVEL 2 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-3-1	LEVEL 3 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-3-2	LEVEL 3 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-3-3	LEVEL 3 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-4-1	LEVEL 4 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-4-2	LEVEL 4 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-4-3	LEVEL 4 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-5-1	LEVEL 5 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-5-2	LEVEL 5 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-5-3	LEVEL 5 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-6-1	LEVEL 6 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-6-2	LEVEL 6 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-6-3	LEVEL 6 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-7-1	LEVEL 7 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-7-2	LEVEL 7 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-7-3	LEVEL 7 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-8-1	LEVEL 8 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-8-2	LEVEL 8 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-8-3	LEVEL 8 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-9-1	LEVEL 9 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-9-2	LEVEL 9 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-9-3	LEVEL 9 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-10-1	LEVEL 10 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-10-2	LEVEL 10 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-10-3	LEVEL 10 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-11-1	LEVEL 11 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-11-2	LEVEL 11 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-11-3	LEVEL 11 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-12-1	LEVEL 12 -	FS/MPS/SD	✓		R1	R1 & R2
ZH1-12-2	LEVEL 12 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-12-3	LEVEL 12 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH1-13-1	LEVEL 13 - - AMENITY	FS/MPS/SD	✓		R1	R1 & R2
ZH1-13-2	LEVEL 13 - - GENERATOR ROOM (HIGH TEMP.)	FS/HD/SD	✓		R1	R1 & R2
ZH1-13-3	LEVEL 13 - - COMM. ROOM	SD	✓		R1	R1 & R2
ZH1-13-4	LEVEL 13 - - MECHANICAL ROOM	FS/HD	✓		R1	R1 & R2
ZH1-13-4	LEVEL 13 - - ELECTRICAL CLOSET	SD	✓		R1	R1 & R2
ZH2-1-1	LEVEL 1 - RETAIL - LOBBY	FS/SD	✓		R2	R1 & R2
ZH2-1-2	LEVEL 1 - RETAIL - ELEVATOR LOBBY (140)	SD/MPS	✓		R2	R1 & R2
ZH2-1-3	LEVEL 1 - RETAIL - RETAIL	FS/MPS	✓		R2	R1 & R2
ZH2-1-4	LEVEL 1 - RETAIL - LOADING AREA	FS/MPS	✓		R2	R1 & R2
ZH2-1-5	LEVEL 1 - RETAIL - RETAIL ELECTRICAL ROOM	SD	✓		R2	R1 & R2
ZH2-1-6	LEVEL 1 - RETAIL - RESIDENTIAL MOVING ROOM (125)	SD	✓		R2	R1 & R2
ZH2-1-7	LEVEL 1 - RETAIL - RETAIL DELIVERY (124)	SD	✓		R2	R1 & R2
ZH2-1-8	LEVEL 1 - RETAIL - GARBAGE CORR. (123)	SD	✓		R2	R1 & R2
ZH2-1-9	LEVEL 1 - RETAIL - MOVING ROOM (131)	SD	✓		R2	R1 & R2
ZH2-1-10	LEVEL 1 - RETAIL - RESTAURANT GARBAGE ROOM (130)	HD	✓		R2	R1 & R2
ZH2M-1	LEVEL 1 MEZZANINE - RETAIL	FS/SD	✓		R2	R1 & R2
ZH2-2-1	LEVEL 2 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-2-2	LEVEL 2 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-3-3	LEVEL 2 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-3-1	LEVEL 3 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-3-2	LEVEL 3 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-3-3	LEVEL 3 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-4-1	LEVEL 4 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-4-2	LEVEL 4 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-4-3	LEVEL 4 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-5-1	LEVEL 5 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-5-2	LEVEL 5 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-5-3	LEVEL 5 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-6-1	LEVEL 6 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-6-2	LEVEL 6 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-6-3	LEVEL 6 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-7-1	LEVEL 7 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-7-2	LEVEL 7 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-8-1	LEVEL 8 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-8-2	LEVEL 8 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-9-1	LEVEL 9 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-9-2	LEVEL 9 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-10-1	LEVEL 10 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-10-2	LEVEL 10 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-11-1	LEVEL 11 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-11-2	LEVEL 11 - ARTSCAPE - ELECTRICAL CLOSET	SD	✓		R2	R1 & R2
ZH2-12	LEVEL 12 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-13	LEVEL 13 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-14-1	LEVEL 14 - ARTSCAPE	FS/MPS/SD	✓		R2	R1 & R2
ZH2-14-2	LEVEL 14 - ARTSCAPE - - ELEVATOR MACHINE ROOM	SD	✓		R2	R1 & R2
Z15	SPARE					
Z16	SPARE					
Z17	SPARE					
Z18	GARBAGE CHUTE -	FS/HD	✓		R1	R1 & R2
Z19	GARBAGE CHUTE -	FS/HD	✓		R1	R1 & R2
Z20	GARBAGE CHUTE - ARTSCAPE	FS/HD	✓		R2	R1 & R2
Z21	GARBAGE CHUTE - ARTSCAPE	FS/HD	✓		R2	R1 & R2
Z22	SPARE					
Z23	SPARE					
Z24	SPARE					
Z25	SPARE					
Z26	SPARE					
Z27	SPARE					
Z28	SPARE					
Z29	SPARE					

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS ALARM	REGISTERED AS TROUBLE	INITIATE AS	DISPLAY
Z30	STAIR A	SD	✓		R1	R1 & R2
Z31	STAIR B	SD	✓		R1	R1 & R2
Z32	STAIR C	SD	✓		R1	R1 & R2
Z33	STAIR D	SD	✓		R2	R1 & R2
Z34	STAIR E	SD	✓		R2	R1 & R2
Z35	STAIR F	SD	✓		R2	R1 & R2
Z36	STAIR G	SD	✓		R2	R1 & R2
Z37	STAIR H	SD	✓		R2	R1 & R2
Z38	STAIR N	SD	✓		R1	R1 & R2
Z39	SPARE					
Z40	SPARE					
Z41	SPARE					
Z42	SPARE					
Z43	ELEVATOR #1 PIT	HD	✓		R1	R1 & R2
Z44	ELEVATOR #1 SHAFT	HD	✓		R1	R1 & R2
Z45	SPARE					
Z46	ELEVATOR #2 PIT	HD	✓		R1	R1 & R2
Z47	ELEVATOR #2 SHAFT	HD	✓		R1	R1 & R2
Z48	SPARE					
Z49	ELEVATOR #3 PIT	HD	✓		R1	R1 & R2
Z50	ELEVATOR #3 SHAFT	HD	✓		R1	R1 & R2
Z51	SPARE					
Z52	ELEVATOR #4 PIT	HD	✓		R2	R1 & R2
Z53	ELEVATOR #4 SHAFT	HD	✓		R2	R1 & R2
Z54	SPARE					
Z55	ELEVATOR #5 PIT	HD	✓		R2	R1 & R2
Z56	ELEVATOR #5 SHAFT	HD	✓		R2	R1 & R2
Z57	SPARE					
Z58	ELEVATOR #6 PIT	HD	✓		R2	R1 & R2
Z59	ELEVATOR #6 SHAFT	HD	✓		R2	R1 & R2
Z60	SPARE					
Z61	ELEVATOR #7 PIT	HD	✓		R2	R1 & R2
Z62	ELEVATOR #7 SHAFT	HD	✓		R2	R1 & R2
Z63	SPARE					
Z64	ELEVATOR #8 PIT	HD	✓		R2	R1 & R2
Z65	ELEVATOR #8 SHAFT	HD	✓		R2	R1 & R2
Z66	SPARE					
Z67	ELEVATOR #9 PIT	HD	✓		R1	R1 & R2
Z68	ELEVATOR #9 SHAFT	HD	✓		R1	R1 & R2
Z69	SPARE					
Z70	ELEVATOR #10 PIT	HD	✓		R2	R1 & R2
Z71	ELEVATOR #10 SHAFT	HD	✓		R2	R1 & R2
Z72	SPARE					
Z73	SPARE					
Z74	SPARE					
Z75	SPARE					
Z76	SPARE					
Z77	SPARE					
Z78	SPARE					
Z79	SPARE					
Z80	SPARE					
Z81	SPARE					
Z82	PRE AMPLIFIER TROUBLE			✓	R1	R1 & R2
Z83	TEL VOICE TROUBLE			✓	R1	R1 & R2
Z84	COMMON TROUBLE			✓	R1	R1 & R2
Z85	SILENCE SWITCH			✓	R1	R1 & R2
Z86	SPRINKLER LOSS OF AIR PRESSURE			✓	R1	R1 & R2
Z87	SPRINKLER LOSS OF WATER PRESSURE			✓	R1	R1 & R2
Z88	SPRINKLER COMPRESSOR LOSS OF POWER			✓	R1	R1 & R2
Z89	SPRINKLER ROOM LOW TEMPERATURE			✓	R1	R1 & R2
Z90	PIPE TRACING PANEL FOR SPRINKLER/STAND PIPE LOSS OF POWER			✓	R1	R1 & R2
Z91	FIRE PUMP LOSS OF POWER			✓	R1	R1 & R2
Z92	FIRE PUMP RUNNING			✓	R1	R1 & R2
Z93	FIRE PUMP PHASE REVERSED			✓	R1	R1 & R2
Z94	GENERATOR LOW BATTERY			✓	R1	R1 & R2
Z95	GENERATOR RUNNING			✓	R1	R1 & R2
Z96	GENERATOR TROUBLE (COMMON)			✓	R1	R1 & R2
Z97	GENERATOR LOW GAS PRESSURE			✓	R1	R1 & R2
Z98	GENERATOR COMBUSTION AIR DAMPER FAULT			✓	R1	R1 & R2
Z99	GAS METER VALVE MONITORING	SV	✓		R1	R1 & R2
Z100	SPARE					
Z101	SNOW MELTING PANEL (P1 LEVEL)			✓	R1	R1 & R2
Z102	SNOW MELTING PANEL (LEVEL 14 AMENITY)			✓	R1	R1 & R2
Z103	PIPE TRACING PANEL (P1 LEVEL)			✓	R1	R1 & R2
Z104	PIPE TRACING PANEL (LEVEL14 AMENITY)			✓	R1	R1 & R2
Z105	MAIN STORAGE TANK - LOW LEVEL			✓	R1	R1 & R2
Z106	MAIN STORAGE TANK - WATER TEMPERTURE			✓	R1	R1 & R2
Z107	MECHANICAL ROOM CO DETECTOR			✓	R1	R1 & R2
Z108	SPARE					
Z109	MAKE-UP AIR UNIT #1	DMSD	✓		R1	R1 & R2
Z110	MAKE-UP AIR UNIT #2	DMSD	✓		R2	R1 & R2
Z111	MAKE-UP AIR UNIT #3	DMSD	✓		R1	R1 & R2
Z112	SPARE					
Z113	SPARE					
Z114	STAIR PRESS SF-1 - STAIR C	DMSD	✓		R1	R1 & R2
Z115	STAIR PRESS SF-2 - STAIR E	DMSD	✓		R2	R1 & R2
Z116	STAIR PRESS SF-3 - STAIR H	DMSD	✓		R2	R1 & R2
Z117	STAIR PRESS SF-5 - STAIR N	DMSD	✓		R1	R1 & R2
Z118	BOILER ROOM SUPPLY SF-4	DMSD	✓		R1	R1 & R2
Z119	SPARE					
Z120	SPARE					
Z121	SPARE					
Z122	SPARE					
Z123	SPARE					
Z124	SPARE					
Z125	SPARE					
Z126	SPARE					
Z127	SPARE					
Z128	SPARE					
Z129	SPARE					
Z130	SPARE					

REFER TO 'MIRENDA' DRAWING 'SF3' FOR COMPLETE PRESSURE SWITCH, FLOW SWITCH & SUPERVISORY VALVE SCHEDULE

VOICE COMMUNICATION

ZONE	DESCRIPTION
VP4	U/G PARKING LEVEL P4
VP3	U/G PARKING LEVEL P3
VP2	U/G PARKING LEVEL P2
VP1	U/G PARKING LEVEL P1
VP1M	U/G PARKING LEVEL P1M
VP1M-2	U/G PARKING LEVEL P1M - SPRINKLER ROOM
VR1-1	LEVEL 1 -
VR1-2	LEVEL 1 MEZZANINE -
VR1-2	LEVEL 2 -
VR1-3	LEVEL 3 -
VR1-4	LEVEL 4 -
VR1-5	LEVEL 5 -
VR1-6	LEVEL 6 -
VR1-7	LEVEL 7 -
VR1-8	LEVEL 8 -
VR1-9	LEVEL 9 -
VR1-10	LEVEL 10 -
VR1-11	LEVEL 11 -
VR1-12	LEVEL 12 -
VR1-13	LEVEL 13 - - AMENITY
VR1-14	LEVEL 14 - - ELEVATOR MACHINE ROOM
VR2-1	LEVEL 1 - ARTSCAPE
VR2-1M	LEVEL 1 MEZZANINE - ARTSCAPE
VR2-2	LEVEL 2 - ARTSCAPE
VR2-3	LEVEL 3 - ARTSCAPE
VR2-4	LEVEL 4 - ARTSCAPE
VR2-5	LEVEL 5 - ARTSCAPE
VR2-6	LEVEL 6 - ARTSCAPE
VR2-7	LEVEL 7 - ARTSCAPE
VR2-8	LEVEL 8 - ARTSCAPE
VR2-9	LEVEL 9 - ARTSCAPE
VR2-10	LEVEL 10 - ARTSCAPE
VR2-11	LEVEL 11 - ARTSCAPE
VR2-12	LEVEL 12 - ARTSCAPE
VR2-13	LEVEL 13 - ARTSCAPE - AMENITY
VR2-14	LEVEL 14 - ARTSCAPE - ELEVATOR MACHINE ROOM
V15	ALL CALL -
V16	STAIR A -
V17	STAIR B -
V18	STAIR C -
V19	STAIR D -
V20	STAIR E -
V21	STAIR F -
V22	STAIR G -
V23	STAIR H -
V24	STAIR J -
V25	STAIR K -
V26	STAIR M -
V27	STAIR M -
V28	STAIR N -
V29	SPARE
V30	SPARE
V31	SPARE
V32	SPARE
V33	SPARE
V34	SPARE
V35	SPARE
V36	SPARE
V37	SPARE
V38	SPARE
V39	SPARE
V40	SPARE

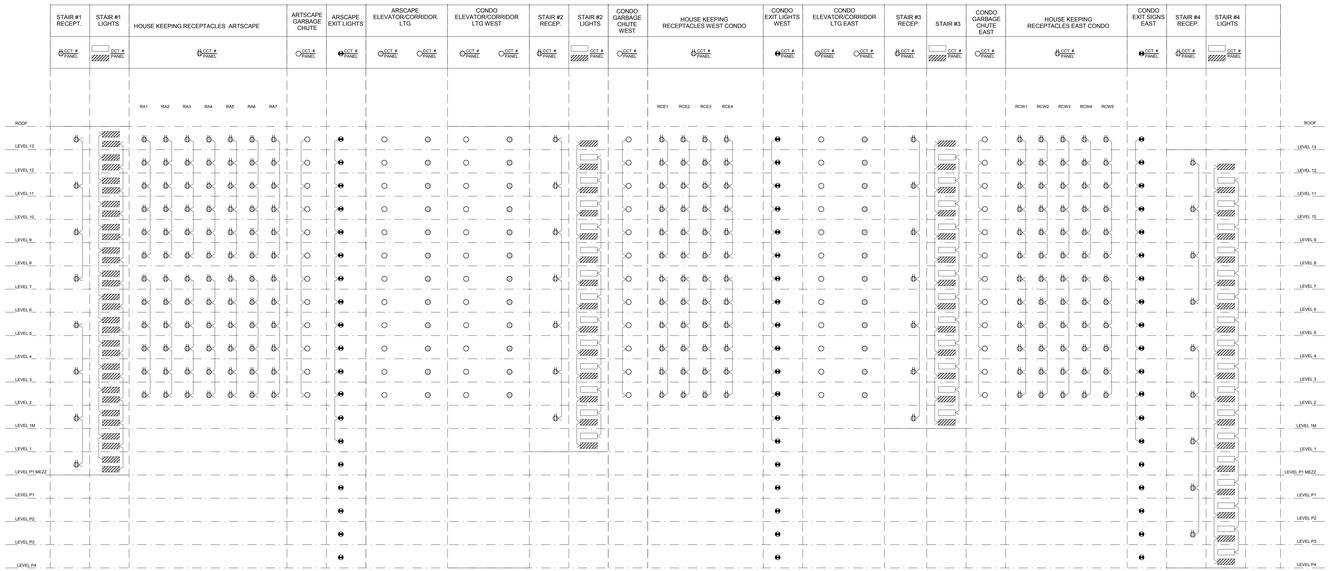
HANDSET ZONES

ZONE	DESCRIPTION
HP4	U/G PARKING LEVEL P4
HP3	U/G PARKING LEVEL P3
HP2	U/G PARKING LEVEL P2
HP1	U/G PARKING LEVEL P1
HP1M-1	U/G PARKING LEVEL P1M
HP1M-2	U/G PARKING LEVEL P1M - SPRINKLER ROOM
HR1-2	LEVEL 2 -
HR1-3	LEVEL 3 -
HR1-4	LEVEL 4 -
HR1-5	LEVEL 5 -
HR1-6	LEVEL 6 -
HR1-7	LEVEL 7 -
HR1-8	LEVEL 8 -
HR1-9	LEVEL 9 -
HR1-10	LEVEL 10 -
HR1-11	LEVEL 11 -
HR1-12	LEVEL 12 -
HR1-13	LEVEL 13 - - AMENITY
HR1-14	LEVEL 14 - - ELEVATOR MACHINE ROOM
HR2-2	LEVEL 2 -
HR2-3	LEVEL 3 -
HR2-4	LEVEL 4 -
HR2-5	LEVEL 5 -
HR2-6	LEVEL 6 -
HR2-7	LEVEL 7 -
HR2-8	LEVEL 8 -
HR2-9	LEVEL 9 -
HR2-10	LEVEL 10 -
HR2-11	LEVEL 11 -
HR2-12	LEVEL 12 -
HR2-13	LEVEL 13 - - AMENITY
HR3-2	LEVEL 2 - ARTSCAPE
HR3-3	LEVEL 3 - ARTSCAPE
HR3-4	LEVEL 4 - ARTSCAPE
HR3-5	LEVEL 5 - ARTSCAPE
HR3-6	LEVEL 6 - ARTSCAPE
HR3-7	LEVEL 7 - ARTSCAPE
HR3-8	LEVEL 8 - ARTSCAPE
HR3-9	LEVEL 9 - ARTSCAPE
HR3-10	LEVEL 10 - ARTSCAPE
HR3-11	LEVEL 11 - ARTSCAPE
HR3-12	LEVEL 12 - ARTSCAPE
HR3-13	LEVEL 13 - ARTSCAPE - AMENITY
HR3-14	LEVEL 14 - ARTSCAPE - ELEVATOR MACHINE ROOM
H15	
H16	
H17	
H18	
H19	
H20	

SMOKE MANAGEMENT

ALL FANS AND DAMPER CONTROL TO CONSIST OF ON/OFF/AUTO CONTROL SWITCHES.

AUXILIARY CONTROL	DESCRIPTION	CONTROL LOCATION
AC-1	PARKING EXHAUST P4 - NORTH - EF-01	CACF R1 & R2
AC-2	PARKING EXHAUST P4 - SOUTH - EF-02	CACF R1 & R2
AC-3	PARKING EXHAUST P3 - NORTH - EF-03	CACF R1 & R2
AC-4	PARKING EXHAUST P3 - SOUTH - EF-04	CACF R1 & R2
AC-5	PARKING EXHAUST P2 - NORTH - EF-05	CACF R1 & R2
AC-6	PARKING EXHAUST P2 - SOUTH - EF-06	CACF R1 & R2
AC-7	PARKING EXHAUST P1 - NORTH - EF-07	CACF R1 & R2
AC-8	PARKING EXHAUST P1 - SOUTH - EF-08	CACF R1 & R2
AC-9	CHILLER ROOM EXHAUST FAN - EF-10	CACF R1 & R2
AC-10	AMENITY EXHAUST FAN - EF-37	CACF R1 & R2
AC-11	LOADING DOCK EXHAUST - EF-42	CACF R1 & R2
AC-12	SPARE	
AC-13	STAIR C - PRESSURIZATION FAN SF-01	CACF R1 & R2
AC-14	STAIR C - PRESSURIZATION FAN DAMPER	(BELOW GRADE STAIR)
AC-15	STAIR C - PRESSURE RELIEF DAMPER DOOR	(VINAITOGFF)
AC-16	STAIR E - PRESSURIZATION FAN SF-02	
AC-17	STAIR E - PRESSURIZATION FAN DAMPER	
AC-18	STAIR E - PRESSURE RELIEF DAMPER DOOR	
AC-19	STAIR H - PRESSURIZATION FAN SF-03	
AC-20	STAIR H - PRESSURIZATION FAN DAMPER	
AC-21	STAIR H - PRESSURE RELIEF DAMPER DOOR	
AC-22	STAIR N - PRESSURIZATION FAN SF-05	
AC-23	STAIR N - PRESSURIZATION FAN DAMPER	
AC-24	STAIR N - PRESSURE RELIEF DAMPER DOOR	
AC-25	SPARE	
AC-26	BOILER ROOM SUPPLY FAN SF-04 SF-04	CACF R1 & R2
AC-27	BOILER ROOM SUUPPLY FAN SF-04 MOTORIZED DAMPER	CACF R1 & R2
AC-28	SPARE	
AC-29	MAKE-UP AIR #1 MUA-01	CACF R1 & R2
AC-30	MAKE-UP AIR #2 MUA-02	CACF R1 & R2
AC-31	MAKE-UP AIR #3 MUA-03	CACF R1 & R2
AC-32	SPARE	
AC-33	MAGNETIC LOCK RELEASE	CACF R1 & R2
AC-34	SPARE	
AC-35	ELEVATOR RECALL (ELEV. #1, #2 & #3)	CACF R1
AC-36	ELEVATOR RECALL ARTSCAPE (ELEV. #4 & #5)	CACF R2
AC-37	ELEVATOR RECALL (ELEV. #5, #7 & #8)	CACF R2
AC-38	ELEVATOR RECALL (ELEV. #9)	CACF R1
AC-39	ELEVATOR RECALL COMM. PARKING (ELEV. #10)	CACF R2
AC-40	SPARE	
AC-41	FIRE AGENCY	CACF R1 & R2
AC-42	COMMON TROUBLE	CACF R1



1 CONDO - COMMON AREA LIGHTING & POWER RISER DIAGRAM, DISPOSAL SYSTEM ROUGH-IN RISER
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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

No.	Issued For	Date

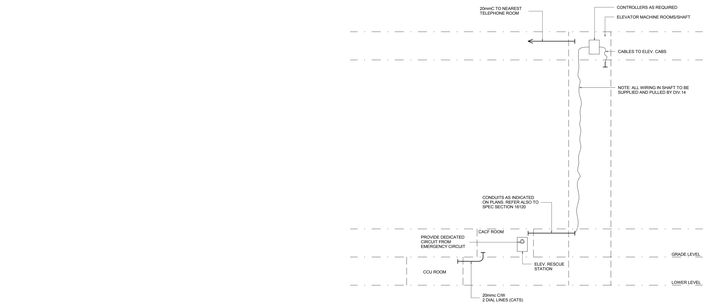
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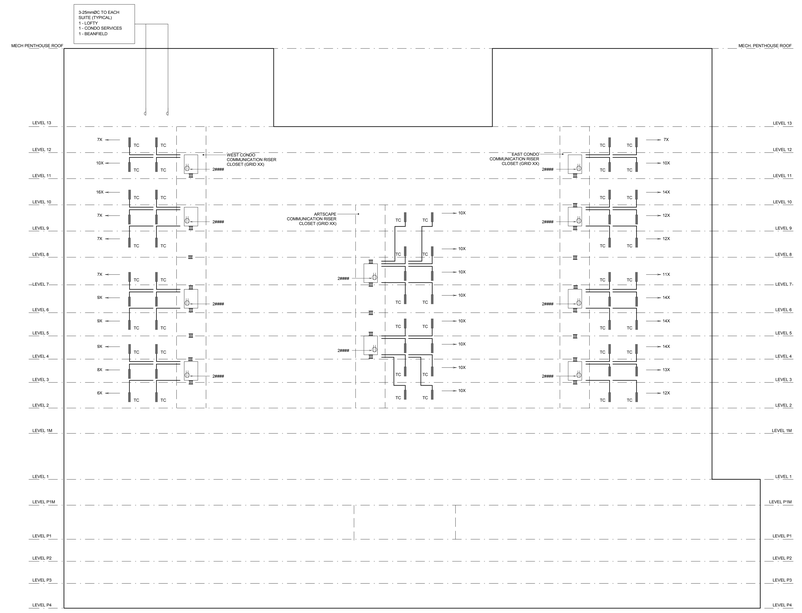
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

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2 ELEVATOR RESCUE STATION
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1 COMMUNICATION RISER DIAGRAM
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1	WT REVIEW	2015-05-01

No.	Issued For	Date

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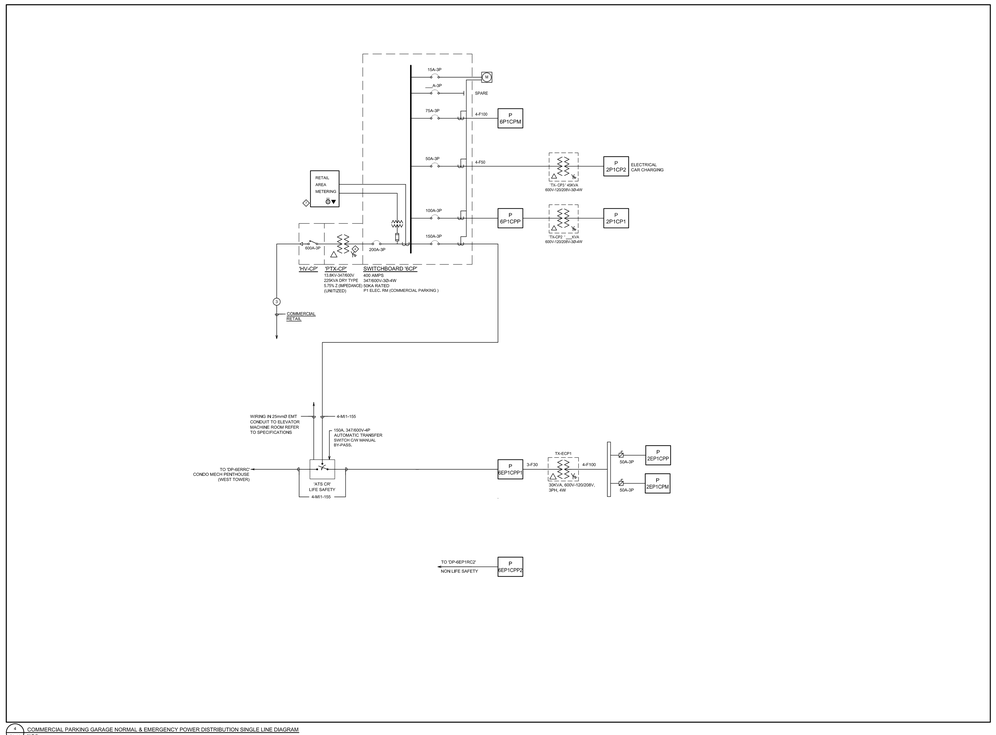
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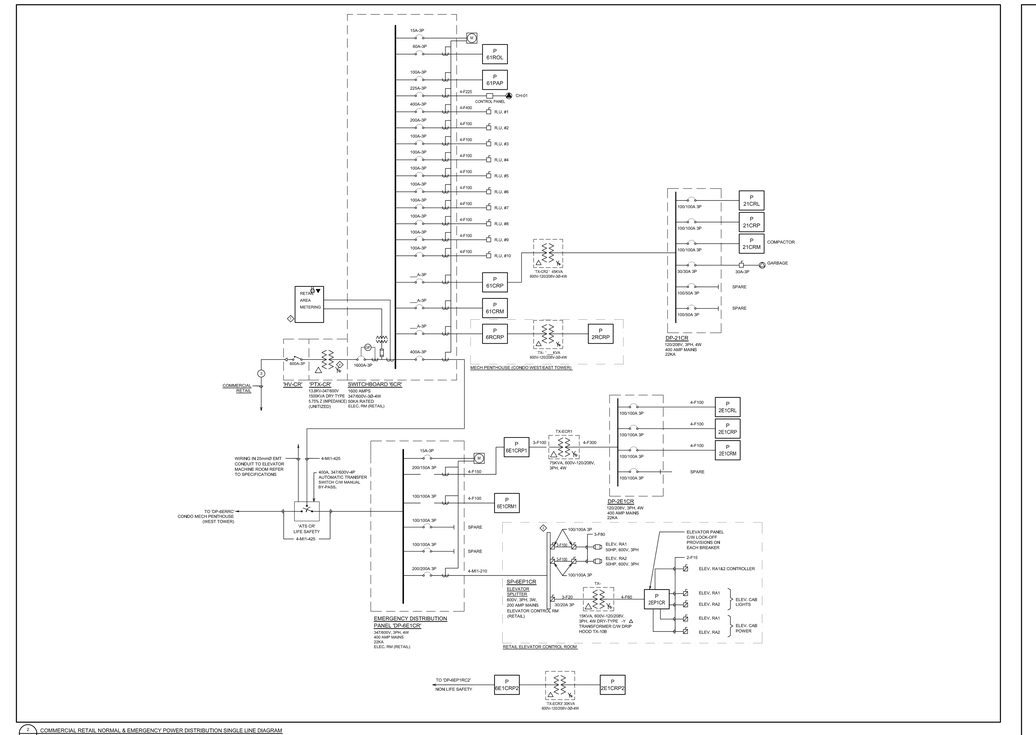
Drawing No.

E3-C-06

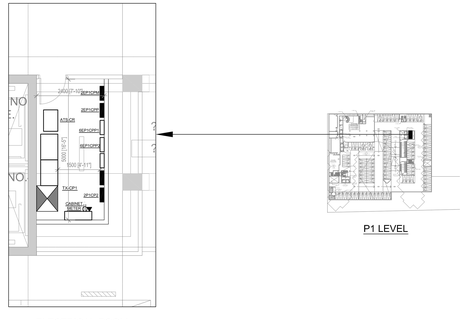
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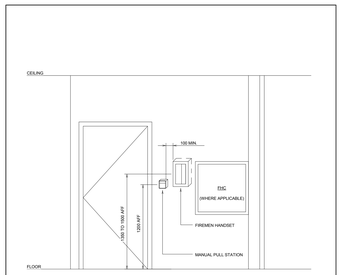


1 COMMERCIAL PARKING GARAGE NORMAL & EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
SCALE: N.T.S.

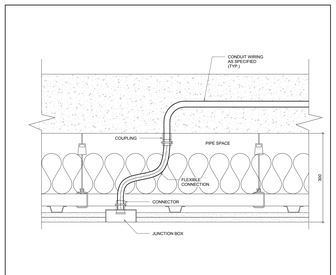


2 COMMERCIAL RETAIL NORMAL & EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
SCALE: N.T.S.

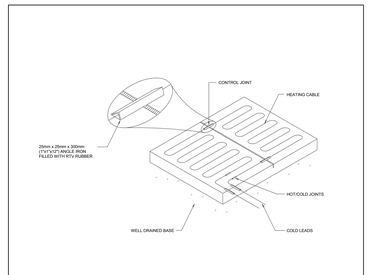

24'0"-7.315
ATS-CR
SP-2EP1CR
SP-6E1P1CR
SP-6EP1CR
TX-CP1
SP-CP1
CABINET C
SP-6E1CR
800 (31.5")
1800 (70.9")
P1 ELEC. RM
(COMMERCIAL PARKING)
ATS-CP
SP-2E1CR
SP-6E1CR
SP-6EP1CR
TX-ECP1
SP-CP1
SP-6E1P1CR
SP-6E1CR
SP-6EP1CR
TX-ECR



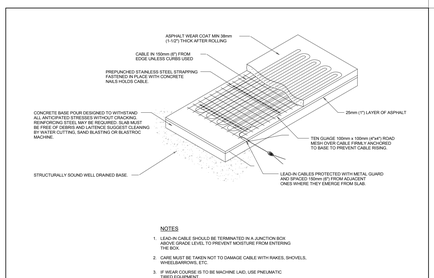
11 TYPICAL DEVICE MOUNTING DETAIL AT STAIR EXIT DOORS
N.T.S.



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

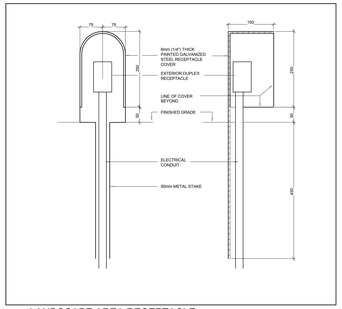


3 HEATING CABLE DETAIL - CONCRETE SLAB AT CONTROL JOINT
N.T.S.

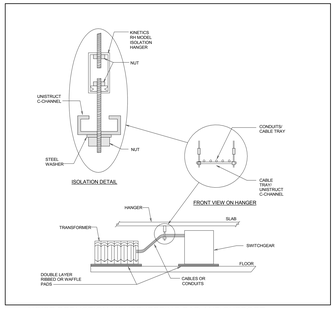


NOTES
1. LEAD-IN CABLE SHOULD BE TERMINATED IN A JUNCTION BOX ABOVE SLAB LEVEL TO PREVENT MOISTURE FROM ENTERING THE HEAD.
2. CARE MUST BE TAKEN NOT TO DAMAGE CABLE WITH RAKES, SHOVELS, WHEELBARROWS, ETC.
3. IF WEAR COURSE IS TO BE MACHINE LAID, USE PNEUMATIC TIRED EQUIPMENT.

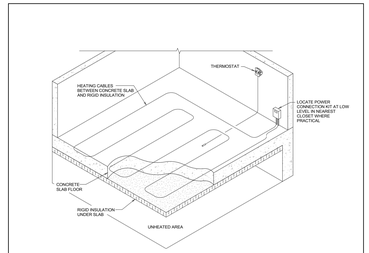
1 HEATING CABLE DETAIL - SNOW MELTING IN ASPHALT WITH CONCRETE BASE
N.T.S.



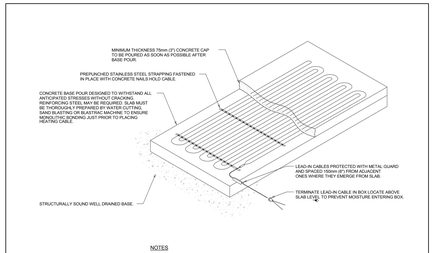
10 LANDSCAPE AREA RECEPTACLE
N.T.S.



9 NOISE REDUCTION HOUSEKEEPING PAD AND SUPPORT HANGERS
1 : 1

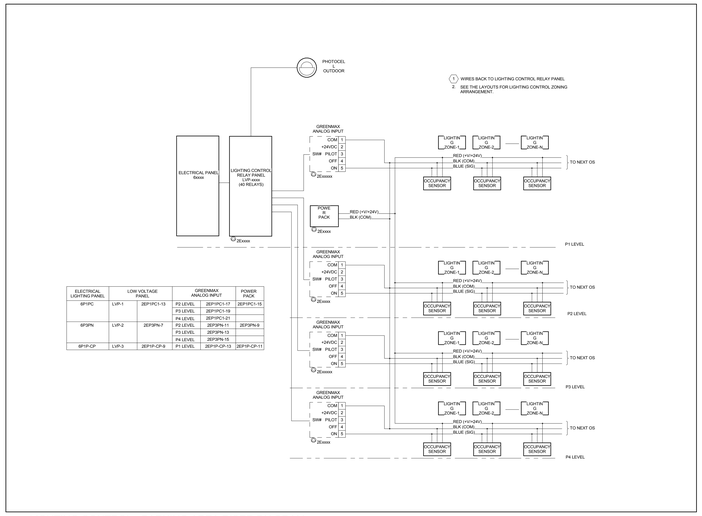


4 TYPE 'B' - HEATING CABLES UNDER SLAB DETAIL
N.T.S.



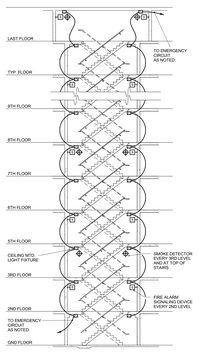
NOTES
1. MAXIMUM SLAB AREA WITHOUT CONTROL OR EXPANSION JOINTS RECOMMENDED FOR A HEATING INSTALLATION 37 SQ.m (400 SQ. FT)., NO GREATER THAN 6m (20 FT.) IN ANY ONE DIRECTION.
2. CARE SHALL BE TAKEN NOT TO DAMAGE CABLE WITH RAKES, SHOVELS, WHEELBARROWS, ETC.

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

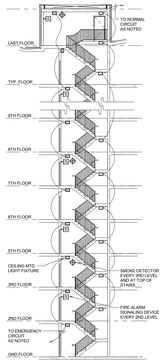


ELECTRICAL LIGHTING PANEL	LOW VOLTAGE PANEL	GREENMAX ANALOG INPUT		POWER PACK
6P1PC	LVP-1	2EP1PC1-13	P2 LEVEL	2EP1PC1-17	2EP1PC1-15
			P3 LEVEL	2EP1PC1-19	
			P4 LEVEL	2EP1PC1-21	
6P3PN	LVP-2	2EP3PN-7	P2 LEVEL	2EP3PN-11	2EP3PN-9
			P3 LEVEL	2EP3PN-13	
			P4 LEVEL	2EP3PN-15	
6P1P-CP	LVP-3	2EP1P-CP-9	P1 LEVEL	2EP1P-CP-13	2EP1P-CP-11

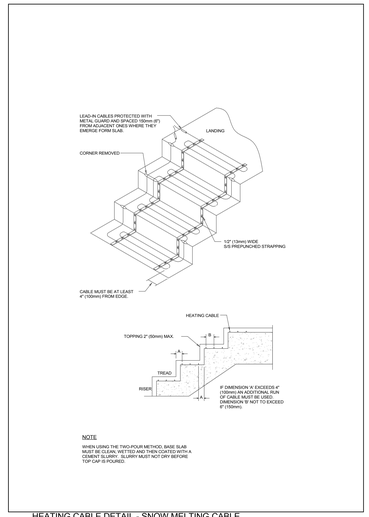
8 LIGHTING CONTROL - PARKING AREA RISER DIAGRAM
N.T.S.



7 TYPICAL SCISSOR STAIR
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
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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

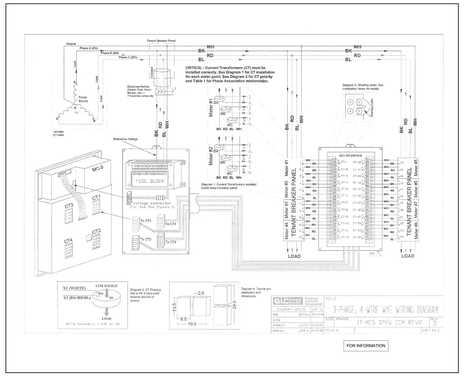
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
MISCELLANEOUS DETAILS - ELECTRICAL

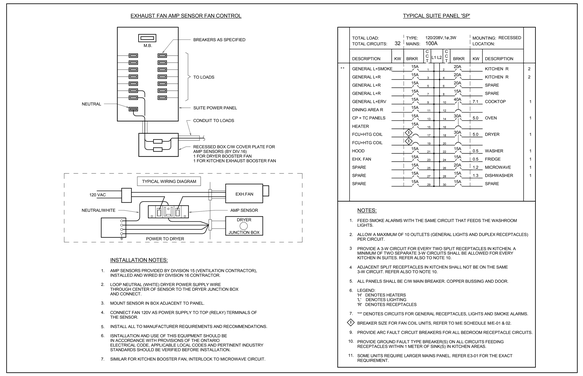
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	N.T.S.
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/06/15
Drawing No.	E4-01



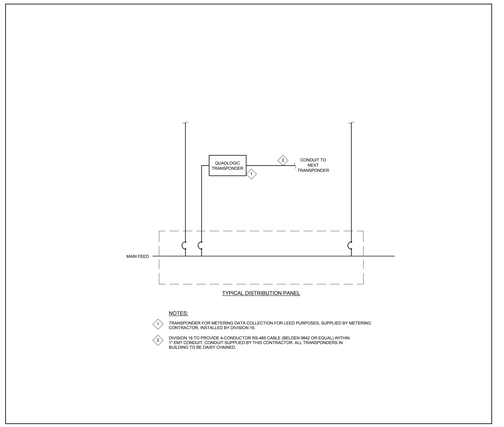
6 QUADLOGIC 3 PHASE 4 WIRE 120/208V WIRING DIAGRAM

N.T.S



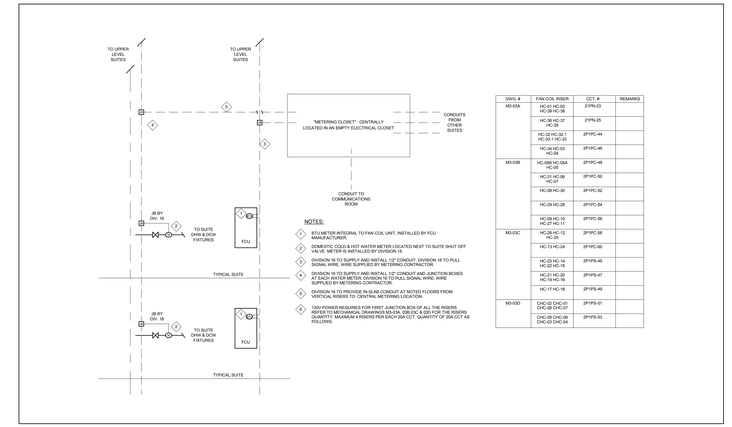
8 TYPICAL SUITE PANEL INSTALLATION

N.T.S



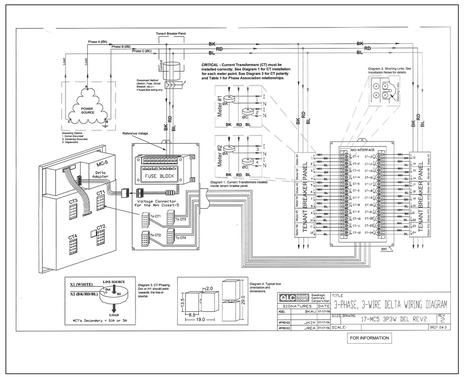
2 TYPICAL QUADLOGIC TRANSPONDER DETAIL

N.T.S



1 TYPICAL SUITE WATER/BTU METERING DETAIL

N.T.S



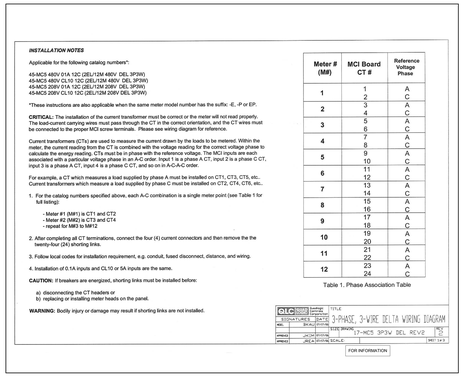
5 QUADLOGIC 3 PHASE 3 WIRE 120/208V WIRING DIAGRAM

N.T.S



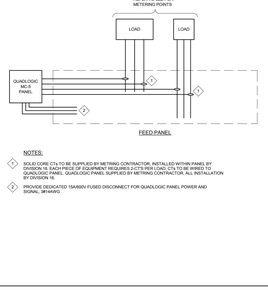
3 TYPICAL MECHANICAL EQUIPMENT METERING DETAIL

N.T.S



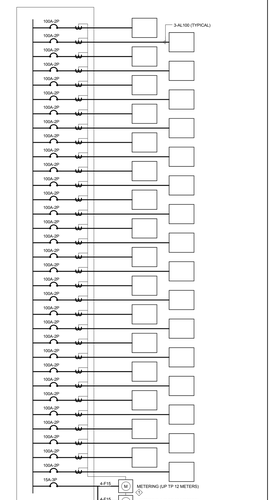
4 QUADLOGIC 3 PHASE 3 WIRE 120/208V WIRING DIAGRAM - INSTALLATION NOTES

N.T.S



7 TYPICAL SUITE DISTRIBUTION PANEL

N.T.S



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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-15

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: E4-02