MCW Consultants Ltd.

GENERAL POWER

Symbol	Description
	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
30A	120/208V/1□/30 AMP DRYER OUTLET
40A	120/208V/1□/40 AMP RANGE OUTLET
20A 'A'	SINGLE SPECIAL RECEPTACLE - AMPACITY AS INDICATED, TYPE 'A' AS SPECIFIED
	15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
	15A, U-GROUND HALF SWITCHED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER (CONTROLLED BY SWITCH)
	15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
	(5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER
	15A, U-GROUND SINGLE RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
	15A, U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
	(5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
	15A, U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
	(5-20R) T-SLOT U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
	15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
	15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
	(5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
	15A, U-GROUND SINGLE RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
	15A, U-GROUND DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
	(5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
	15A, U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
	(5-20R) T-SLOT U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
	15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
	15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
	(5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE

KITCHEN APPLIANCES

Symbol	Description
D	15A, 120V-1Ø DUPLEX RECEPTACLE FOR DISHWASHER, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
F	15A, 120V-1Ø DUPLEX RECEPTACLE FOR FRIDGE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
U/F	15A, 120V-1Ø DUPLEX RECEPTACLE FOR UNDER-COUNTER FRIDGE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
H	15A, 120V-1Ø DUPLEX RECEPTACL EFOR KITCHEN HOOD, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
X	30A, 120/208V-1Ø(14-30R) RECEPTACLE FOR DRYER, LOCATED ON INTERIOR DESIGN DRAWINGS
W	15A, 120V-1Ø DUPLEX RECEPTACLE FOR WASHER, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
W/D	15A, 120V-1Ø DUPLEX RECEPTACLE FOR WASHER, AND 30A, 120/208V-1Ø(14-30R) RECEPTACLE FOR DRYER. LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
S	50A, 120V/208V-1Ø (14-50R) RECEPTACLE FOR STOVE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
M	20A, 120V-1Ø DUPLEX RECEPTACLE FOR MICROWAVE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
O	20A, 120V/208V-1Ø DIRECT CONNECTION FOR BUILD-IN OVEN, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
E	15A, 120V/208V-1Ø DUPLEX RECEPTACLE FOR EXHAUST FAN, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
CT	40A, 120V/208V-1Ø DIRECT CONNECTION FOR BUILT IN COOKTOP, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS

LIGHTING

Symbol	Description
A	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
BU-1	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.
	CEILING MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN. TWO EXIT SIGNS TO BE PROVIDED WHERE BI-DIRECTIONAL IS SHOWN ON THE LAYOUT.

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OCCUPANCY SENSOR SCHEDULE

SYMBOL	MANUFACTURER MODEL No.	DESCRIPTION
$ 1	WATT STOPPER DW 100	WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF AND DAYLIGHT SENSOR ON/OFF
$ 2	WATT STOPPER PW 100	WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF OVER RIDE
$ 3	WATT STOPPER PW 103	WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF OVER RIDE. 3-WAY.
OS 3	WATT STOPPER W2000 H	ULTRA SONIC CEILING SENSOR WITH 90' LINEAR COVERAGE
OS 4	WATT STOPPER LMDC-100	DIGITAL DUAL TECHNOLOGY CEILING SENSOR WITH 1000 SQ. FT. COVERAGE
OS 5	WATT STOPPER LIT-355-2	CEILING MOUNTED ULTRASONIC SENSOR WITH 1000 SQ. FT. COVERAGE
OS 6	WATT STOPPER DT-355	CEILING MOUNTED DUAL TECHNOLOGY SENSOR WITH 1000 SQ. FT. COVERAGE
OS P1	WATT STOPPER CB-105-1	PIR OCCUPANCY SENSOR FOR COLD TEMPERATURE WITH 90' DIRECTIONAL LINEAR COVERAGE. PROVIDE POWER PACK(S) AS REQUIRED.
OS 7	WATT STOPPER CX-105	CORNER MOUNTED PASSIVE INFRARED SENSOR C/W POWER PACK
DL	LEVITON ODC05-MDW	CEILING MOUNTED INTEGRATED OCCUPANCY SENSOR, POWER BACK, AND PHOTOCELL IN SELF CONTAINED UNIT.
TS	WATT STOPPER TS 400	DIGITAL TIME-SWITCH WITH PRE-SET ON/OFF OPERATION
$ LV...	WATT STOPPER HDLS4SS	LOW VOLTAGE MASTER SWITCH TO CONTROL CORRIDORS, OFFICES AND OPEN OFFICE AREAS

LIGHTING CONTROL

Symbol	Description
$$$$	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
A $	SWITCH MOUNTED OCCUPANCY SENSOR, TYPE 'A' AS SPECIFIED
F $	FAN CONTROL SWITCH
FV $	VARIABLE SPEED FAN CONTROL SWITCH
T $	MANUAL TIMER SWITCH
M $	MASTER SWITCH
A D	DIMMER SWITCH, TYPE 'A' AS SPECIFIED
TC	PROGRAMMABLE TIME CLOCK, TYPE 'A' AS SPECIFIED
OS	CEILING MOUNTED OCCUPANCY SENSOR, TYPE 'A' AS SPECIFIED
PE	PHOTO ELECTRIC CONTROL
LV	LOW VOLTAGE RELAY
LV A	LOW VOLTAGE RELAY PANEL, TYPE 'A' AS SPECIFIED
LV01	LOW VOLTAGE CONTROL STATION, TYPE 'LV01' AS SPECIFIED
LVM	LOW VOLTAGE CONTROL SYSTEM MASTER STATION

EQUIPMENT CONNECTIONS AND CONTROLS

Symbol	Description
	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
C F W	MODULAR FURNITURE WHIP CONNECTION 'C' - 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
H	HAIR DRYER
HD	HAND DRYER
C	CONTACTOR - SIZE AND NUMBER OF POLES AS SPECIFIED
R	RELAY
T	THERMOSTAT PROVIDED AND WIRED BY ELECTRICAL
T	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
SP	RECESSED MOUNTED ELECTRICAL PANEL - 'SP' DENOTES SUITE PANEL
SP	SURFACE MOUNTED ELECTRICAL PANEL - 'SP' DENOTES SUITE PANEL
CO	CARBON MONOXIDE DETECTOR TO BE SUPPLIED, INSTALLED AND WIRED BY DIV. 15. THIS CONTRACTOR SHALL RUN A 20mmØ EC FROM DETECTOR TO CORRESPONDING CARBON MONOXIDE DETECTION CONTROL PANEL. VERIFY EXACT LOCATIONS WITH DIV. 15 PRIOR TO ROUGH-IN. MOUT DEVICES AT APPROXIMATELY 2700mm A.F.F ON WALL OR COLUMN.

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POWER DISTRIBUTION

Symbol	Description
	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
M	KW/HR METER
DM	DIGITAL METERING SYSTEM
	BUS DUCT
IBP	AUTOMATIC TRANSFER SWITCH - 'IBP'-DENOTES ISOLATION BYPASS SWITCH
S	EMERGENCY GENERATOR
INV	EMERGENCY LIGHTING INVERTER
UPS	UNINTERRUPTABLE POWER SUPPLY

FIRE ALARM SYSTEM

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

ELECTRICAL CAR CHARGING STATION

Symbol	Description
EV1	PROVIDE SINGLE GANG BOX, 20mmØC CONDUIT AND 20A, 120V-1Ø (5-20R) RECEPTACLE FOR 'TYPE 1' ELECTRICAL CAR CHARGE STATION. LOCATED AS SHOWN ON FLOOR PLANS.
EV2	PROVIDE TWO GANG BOX, 25mmØC CONDUIT AND 50A, 208V-1Ø (5-60R) RECEPTACLE FOR 'TYPE 2' ELECTRICAL CAR CHARGE STATION. LOCATED AS SHOWN ON FLOOR PLANS.
EVr	PROVIDE SINGLE GANG BOX, 20mmØC CONDUIT AND BLANK COVER FOR 'TYPE 1' ELECTRICAL CAR CHARGE STATION ROUGH-IN. LOCATED AS SHOWN ON FLOOR PLANS.
EVm	PROVIDE TWO GANG BOX, 25mmØC CONDUIT AND 20A, 120V-1Ø (5-20R) RECEPTACLE FOR 'TYPE 1' MODIFIED TO ACCOMMODATE 'TYPE 2' ELECTRICAL CAR CHARGE STATION IN FUTURE. LOCATED AS SHOWN ON FLOOR PLANS.

SECURITY AND ACCESS SYSTEMS

Symbol	Description
CP	SECURITY SYSTEM CONTROL PANEL
KP	KEY PAD
CR	CARD READER
IR	INFRA RED READER
EB	REQUEST TO EXIT BUTTON
EM	EGRESS MOTION DETECTOR
DC	DOOR CONTACT
PC	PATIO DOOR CONTACT
WC	WINDOW CONTACT
OD	OVERHEAD DOOR CONTACT
PL	POWER LOCK
ES	ELECTRIC STRIKE
AA	AUDIBLE ALARM
MD	MOTION DETECTOR
GD	GLASS BREAK DETECTOR
AD	AUTOMATIC DOOR OPENER
PTZ C	CLOSED CIRCUIT CAMERA 'B' - DENOTES BOX ENCLOSURE 'E' - DENOTES ELEVATOR CORNER MOUNT 'P' - DENOTES PEDESTAL MOUNT 'PTZ' - DENOTES PAN TILT ZOOM 'W' - WEDGE ENCLOSURE
M	SECURITY SYSTEM MONITOR
ML	MAGLOCK DEVICE
$	MAGLOCK RESET SWITCH
KS	KEY SWITCH
CB	CODE BLUE SPEAKER PHONE
CB	CODE BLUE INTEGRATED UNIT C/W ACCESSORIES, POLE OR PEDESTAL MOUNTED
S	ALARM SOUNDER
PA	PANIC ALARM
SA	SECURITY ALARM CONTACT FOR MECHANICAL EQUIPMENT
SR	SECURITY DOOR RELEASE
XP	SURFACE CONTROL PANEL - 'XP' DENOTES SECURITY PANEL

ELECTRIC HEATING

Symbol	Description
BBH1	ELECTRIC BASEBOARD HEATER, TYPE 'BBH1' AS SPECIFIED
DBH1	ARCHITECTURAL DRAFT BARRIER HEATER, TYPE 'DBH1' AS SPECIFIED
KSH1	ELECTRIC KICKSPACE HEATER, TYPE 'KSH1' AS SPECIFIED
DIH1	ELECTRIC DROP-IN HEATER, TYPE 'DIH1' AS SPECIFIED
CUH1	CABINET UNIT HEATER, TYPE 'CUH1' AS SPECIFIED
FFH1	RECESSED MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'FFH1' AS SPECIFIED
FFH1	SURFACE MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'FFH1' AS SPECIFIED
UH1	ELECTRIC UNIT HEATER, TYPE 'UH1' AS SPECIFIED
01	AREA OF SNOW MELTING CABLE - TYPE '01' AS SPECIFIED
001	HEAT TRACING CABLE AROUND HORIZONTAL PIPE - TYPE '002' AS SPECIFIED
001	HEAT TRACING CABLE AROUND VERTICAL PIPE - TYPE '001' AS SPECIFIED

MISCELLANEOUS

Symbol	Description
E	INDICATES EXISTING DEVICE TO REMAIN
MV	INDICATES EXISTING DEVICE TO BE MOVED
R	INDICATES EXISTING DEVICE IN RELOCATED POSITION
D	INDICATES EXISTING DEVICE TO BE DEMOLISHED
	INDICATES CONDUIT
1 (TYP.)	ELECTRICAL DRAWING NOTES

STRUCTURAL REQUIREMENTS:

1. REFER TO STRUCTURAL DRAWING TYPICAL DETAILS.
2. AREA OF CONDUITS NOT TO EXCEED 1% OF COLUMN CROSS SECTIONAL AREA (NOTE THAT SOME COLUMNS MAY NOT HAVE ANY CONDUIT PERMITTED DUE TO THEIR CRITICAL NATURE).
3. CONDUITS TO BE PLACED WITHIN MIDDLE 1/3 OF SLAB OR WALL THICKNESS.
5. OUTSIDE DIAMETER OF CONDUITS NOT TO EXCEED 1/3 OF SLAB OR WALL THICKNESS.
6. MINIMUM CENTRE TO CENTRE SPACING OF ADJACENT CONDUITS = 6 X LARGER CONDUIT DIAMETER.
7. CONDUITS TO BE LOCATED A MINIMUM OF 600mm FROM FACES OF COLUMNS.
8. CONDUITS TO BE LOCATED A MINIMUM OF 600mm FROM THE ENDS OF STUDRAILS THAT MAY BE PLACED AROUND COLUMNS.
9. CROSS CONDUITS AT 90 DEGREE ANGLES.
10. REFER TO DETAIL DRAWING AND SPECIFICATION FOR CONDUIT CROSSING EXPANSION JOINT.

COMMUNICATIONS

Symbol	Description
T T	WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET
T T	WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET - MOUNTED ABOVE COUNTER
TV TV	TELEVISION OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
TV	TELEVISION OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
	TELEPHONE OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
	TELEPHONE OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
P	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
A CC	COMMUNICATIONS CABINET, TYPE 'A' AS SPECIFIED
001	COMMUNICATIONS DROP IDENTIFICATION NUMBER - A01 INDICATES DROP IDENTIFICATION
	SIGNAL PUSHBUTTON
	SIGNAL BELL C/W TRANSFORMER
	INTERCOM MASTER STATION
	INTERCOM STATION
SP SP	FLUSH MOUNTED AUXILIARY SOUND SYSTEM SPEAKER - WALL MOUNTED OR CEILING MOUNTED
SP SP	SURFACE MOUNTED AUXILIARY SOUND SYSTEM SPEAKER - WALL MOUNTED OR CEILING MOUNTED
M	MICROPHONE JACK
1	PUBLIC ADDRESS SPEAKER, TYPE '1' AS SPECIFIED
V	VOLUME CONTROL SWITCH
P	PROJECTION SOUND JACK
B	SOUND BRIDGING JACK
AMP	AMPLIFIER
PA	CONSOLE OR RACK C/W TERMINAL BOX
CP	SURFACE CONTROL PANEL - 'CP' DENOTES COMMUNICATION PANEL

GENERAL NOTES:

1. MINIMUM CONDUIT SIZE SHALL BE 21mm UNLESS NOTED OTHERWISE.
2. MOUNTING HEIGHT OF ALL EQUIPMENT/DEVICES SHOWN IN SYMBOL LEGEND ABOVE SHALL BE MEASURED WITH RESPECT TO THE CENTER OF THE RELATED EQUIPMENT/DEVICE.
3. ALL EXIT SIGNS IN EXPOSED AREAS NOT INDICATED AS WALL MOUNTED SHALL BE SUSPENDED ON CONDUIT WITH BALL ALIGNERS SUCH THAT EXITS ARE VISIBLE BELOW BEAMS/STRUCTURES/ MECHANICAL PIPING etc. COORDINATE EXACT LOCATION ON SITE PRIOR TO INSTALLATION.
4. ALL FLUORESCENT FIXTURES IN PARKING LEVELS SHALL BE CHAIN SUSPENDED TO CLEAR ALL OTHER EQUIPMENT AND STRUCTURES. COORDINATE EXACT LOCATIONS PRIOR TO INSTALLATION.
5. PROVIDE LOCKABLE ENCLOSURES WITH COMMON KEY ON ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.
6. REFER TO LIGHTING AND POWER RISER DETAILS FOR COMMON AREAS AND STAIRWELL CIRCUITING.
7. ALL EXIT LIGHTS WITHIN PARKADE AREA SHALL BE TYPE 'E1' UNLESS NOTED OTHERWISE
8. ALL EXIT LIGHTS WITHIN COMMON PUBLIC AREAS EXCLUDING PARKADE AREAS SHALL BE TYPE 'E2' UNLESS NOTED OTHERWISE

SUITE NOTES:

- S1 KITCHEN EQUIPMENT IS SHOWN FOR SCOPE PURPOSES ONLY. EXACT LAYOUTS TO BE BASED ON INDIVIDUAL SHOP DRAWINGS. (TYPICAL)
- S2 ALL LIGHT SWITCHES IN SUITES TO BE MOUNTED 1100mm A.F.F. TO THE TOP AND ALL FIXTURES IN SUITES TO BE PLACED AS PER INTERIOR DESIGN DRAWINGS. (TYPICAL)
- S3 WHEN MORE THAN ONE SMOKE ALARM (OR COMBINATION SMOKE ALARM/C.O. DETECTOR) IS REQUIRED IN A DWELLING UNIT, THE DETECTORS SHALL BE WIRED SO THAT THE ACTIVATION OF ONE DETECTOR WILL CAUSE ALL DETECTORS WITHIN THE DWELLING UNIT TO SOUND. (TYPICAL)
- S4 OUTLET MOUNTED ON SIDE OF KITCHEN COUNTER. INSTALL VERTICALLY 100mm BELOW COUNTER TOP AND 100mm FROM END OF SIDE GABLE. (TYPICAL)
- S5 ALL RECEPTACLES IN SUITES TO BE MOUNTED 400mm A.F.F. TO THE TOP. (TYPICAL)
- S6 ALL TV OUTLETS AND ASSOCIATED RECEPTACLES IN SUITES TO BE MOUNTED 400mm A.F.F. TO THE TOP UNLESS OTHERWISE NOTED.
- S7 SEE MECHANICAL DRAWING FOR ERV WIRING DETAIL.
- S8 ALL RECEPTACLES IN KITCHEN WITHIN 1m OF SINK SHALL BE PROVIDED WITH A 20AMP T-SLOT (5-20RA) GFI RECEPTACLE.
- S9 BALCONY RECEPTACLES SHALL BE GFCI PROTECTED OR INCLUDED WITH GROUND FAULT CIRCUIT.

DWG NO.	DRAWING NAME	SCALE	ISSUED FOR TENDER 2015-10-15
E0-01	ELECTRICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES	N.T.S.	•
E0-02	SITE PLAN - ELECTRICAL	1:150	•
E1-01	LEVEL P4 & LEVEL P3 PARKING PLAN - ELECTRICAL	1:100	•
E1-02	LEVEL P2 & LEVEL P1 PARKING PLAN - ELECTRICAL	1:100	•
E1-03	LEVEL P1 MEZZANINE PARKING PLAN / AMENITY - LEVEL P1-ELECTRICAL	AS NOTED	•
E2-01A	LEVEL 1 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-01B	LEVEL 1 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-02A	LEVEL 1 MEZZANINE FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-02B	LEVEL 1 MEZZANINE FLOOR PLAN SOUTH- ELECTRICAL	1:50	•
E2-03A	LEVEL 2 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-03B	LEVEL 2 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-04A	LEVEL 3 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-04B	LEVEL 3 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-05A	LEVEL 4 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-05B	LEVEL 4 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-06A	LEVEL 5 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-06B	LEVEL 5 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-07A	LEVEL 6 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-07B	LEVEL 6 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-08A	LEVEL 7 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-08B	LEVEL 7 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-09A	LEVEL 8 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-09B	LEVEL 8 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-10A	LEVEL 9 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-10B	LEVEL 9 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-11A	LEVEL 10 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-11B	LEVEL 10 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-12A	LEVEL 11 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-12B	LEVEL 11 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-13A	LEVEL 12 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-13B	LEVEL 12 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-14A	LEVEL 13 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-14B	LEVEL 13 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-15	LEVEL 14 FLOOR PLAN - ELECTRICAL	1:75	•
E3-01-RC	CONDO - SINGLE LINE DIAGRAM	N.T.S.	•
E3-02-RA	ARTSCAPE - SINGLE LINE DIAGRAM	N.T.S.	•
E3-03-CP/CR	COMMERCIAL PARKING / COMMERCIAL RETAIL - SINGLE LINE DIAGRAM	N.T.S.	•
E4-01	COMMON AREA LIGHTING & POWER RISER DIAGRAM	N.T.S.	•
E4-02	TYPICAL SUITE DISTRIBUTION PANEL & TYPICAL SUITE PANEL SCHEDULES	N.T.S.	•
E4-03	FIRE ALARM RISER DIAGRAM	N.T.S.	•
E4-04	FIRE ALARM SCHEDULES	N.T.S	•
E4-05	COMMUNICATION SYSTEM RISER DIAGRAM	N.T.S.	•
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E5-01	ELECTRICAL ROOM DETAIL - ELECTRICAL	AS NOTED	•
E5-02	MISCELLANEOUS DETAILS - ELECTRICAL	N.T.S.	•
E5-03	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-15	CONDO - EQUIPMENT SCHEDULES #5	N.T.S.	•
ME-21	ARTSCAPE - EQUIPMENT SCHEDULES #1	N.T.S.	•
ME-22	ARTSCAPE - EQUIPMENT SCHEDULES #2	N.T.S.	•
ME-23	ARTSCAPE - EQUIPMENT SCHEDULES #3	N.T.S.	•
ME-31	RETAIL - EQUIPMENT SCHEDULES #1	N.T.S.	•
ME-32	RETAIL - EQUIPMENT SCHEDULES #2	N.T.S.	•
ME-33	RETAIL - EQUIPMENT SCHEDULES #3		

ABBREVIATIONS

A	-	AMPERES
AC	-	MOUNTED ABOVE CEILING
AFCI	-	ARC FAULT CIRCUIT INTERRUPTER
AFF	-	ABOVE FINISHED FLOOR
AFG	-	ABOVE FINISHED GRADE
BFC	-	BELOW FINISHED CEILING
BFG	-	BELOW FINISHED GRADE
BB	-	BASEBOARD HEATER
BRK	-	BREAKER
BU	-	BATTERY UNIT
C	-	CONDUCTOR
CDP	-	CENTRAL DISTRIBUTION PANEL
CF	-	CEILING FAN
CFM	-	COFFEE MACHINE
CH	-	CHILDPROOF
CLG	-	CEILING MOUNTED
CM	-	COMBINATION MAGNETIC
CM FVNR	-	COMBINATION MAGNETIC, FULL VOLTAGE NON-REVERSABLE
CM RVNR	-	COMBINATION MAGNETIC, REDUCED VOLTAGE NON-REVERSABLE
CNDT	-	CONDUIT
CP	-	COPY MACHINE
CS	-	MOUNTED IN CRAWLSPACE
CSTE	-	CUSTOMER SERVICE TERMINATION ENCLOSURE
CT	-	COMPUTER TERMINAL
CTP	-	COMPUTER TERMINAL PRINTER
D	-	DELETE
DB	-	DIRECT BURIED
DHWH	-	DOMESTIC HOT WATER HEATER
DHWT	-	DOMESTIC HOT WATER TANK DIV. 15 PROVIDED BY DIVISION 15
DN	-	DOWN
DP	-	DISTRIBUTION PANEL
DT	-	DUST TIGHT
E	-	EXISTING
EC	-	EMPTY CONDUIT
EF	-	EXHAUST FAN
EH	-	ELECTRIC HEATER
F	-	FLUSH FLOOR MOUNTED
FA	-	FIRE ALARM
FC	-	FAN COIL (WHEN USED WITH MOTOR SYMBOL)
FC	-	FOOT CANDLE
FF	-	FORCE FLOW
FM	-	FLOOR MOUNTED
FR	-	FRIDGE
FS	-	DEVICE MOUNTED IN RAISED FLOOR SPACE
FU	-	FUSE
FX	-	FAX MACHINE
FZ	-	FREEZER
GFI	-	GROUND FAULT CIRCUIT INTERRUPTER
GRB	-	GARBURATOR
GW	-	GROUND WIRE
H	-	HORIZONTAL
HP	-	HORSEPOWER
IG	-	ISOLATED GROUND
INT	-	INTERLOCK
kVA	-	KILO VOLT-AMPERES
kW	-	KILOWATTS
LOB	-	LOCK-ON TYPE BREAKER
LP	-	LIGHTING PANEL
LTG	-	LIGHTING
LV	-	LOW VOLTAGE
LVR	-	LOW VOLTAGE RELAY
MC	-	METERING CENTRE
MCC	-	MOTOR CONTROL CENTRE
MCD	-	MULTI CONDUCTOR
MD	-	MAIN DISTRIBUTION
MIC	-	MICROWAVE
MP	-	MOISTURE PROOF
MTD	-	MOUNTED
MTG	-	MOUNTING
MV	-	EXISTING TO BE MOVED
MW	-	MOUNTED IN MILLWORK
NC	-	NORMALLY CLOSED
NIC	-	NOT IN CONTRACT
NL	-	NIGHT LIGHT
NO	-	NORMALLY OPEN
NTS	-	NOT TO SCALE
P	-	PUMP (WHEN USED WITH MOTOR SYMBOL)
PA	-	PUBLIC ADDRESS
PDU	-	POWER DISTRIBUTION UNIT
PH	-	PHASE PANEL
PNL	-	PP POWER PANEL
PR	-	PRINTER
QP	-	QUAD PLEX
R	-	RELOCATE(D)
RP	-	RECEPTACLE PANEL
RI	-	ROUGH-IN
SC	-	SEPARATE CIRCUIT
SS	-	SELECTOR SWITCH
SWBRD	-	SWITCHBOARD
TEL	-	TELEPHONE
TYP	-	TYPICAL
UC	-	UNDER COUNTER
V	-	VOLT
VM	-	VENDING MACHINE
W	-	WALL MOUNTED
WC	-	WATER COOLER
WG	-	WIRE GUARD
WHP	-	WEATHER PROOF
WL	-	WET LOCATION
WP	-	WATER PROOF
WT	-	WATER TIGHT
XP	-	EXPLOSION PROOF

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

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8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

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1	ISSUED FOR ADD E-001	2015/12/10

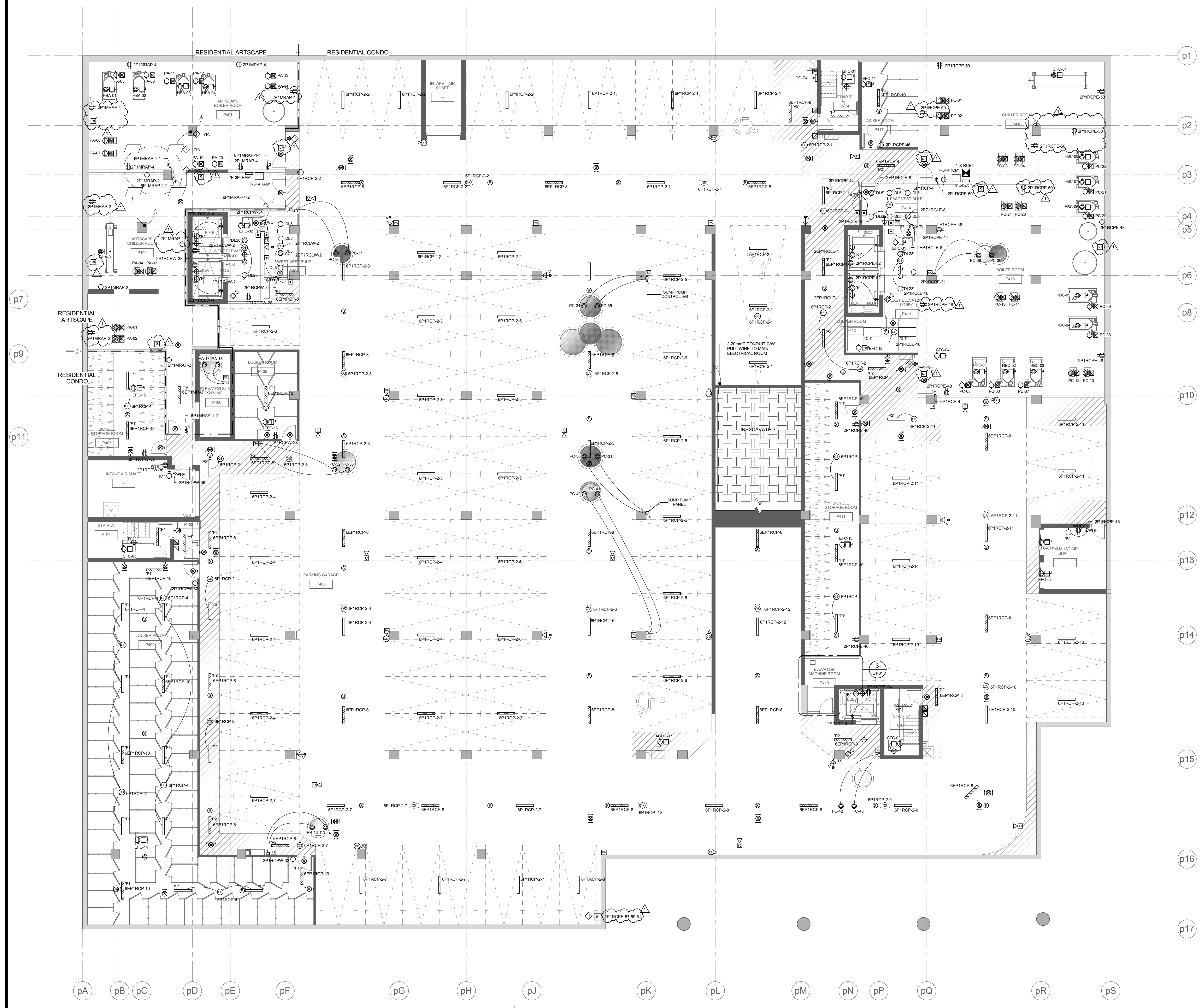
No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

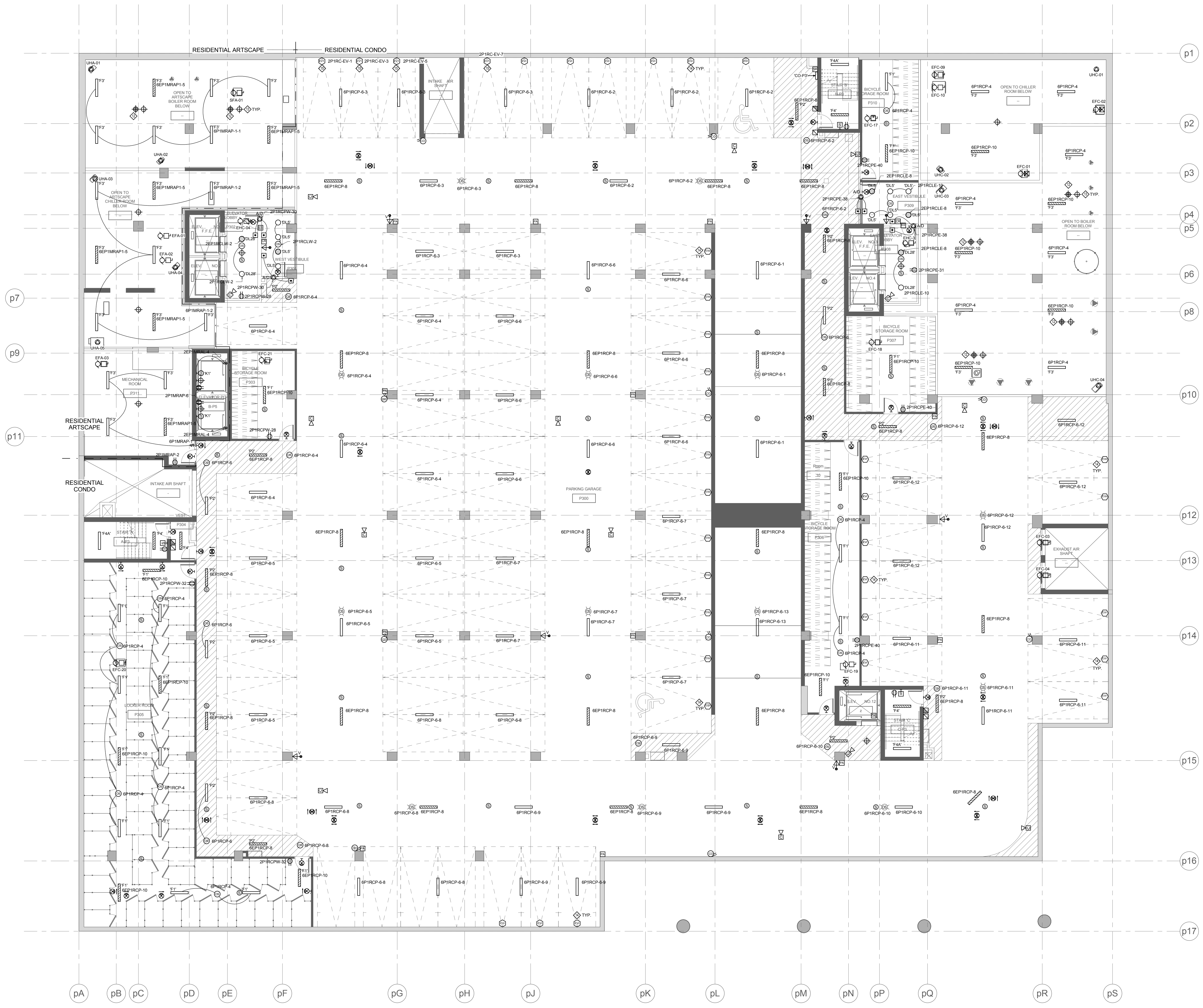
Drawing Title
ELECTRICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES

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

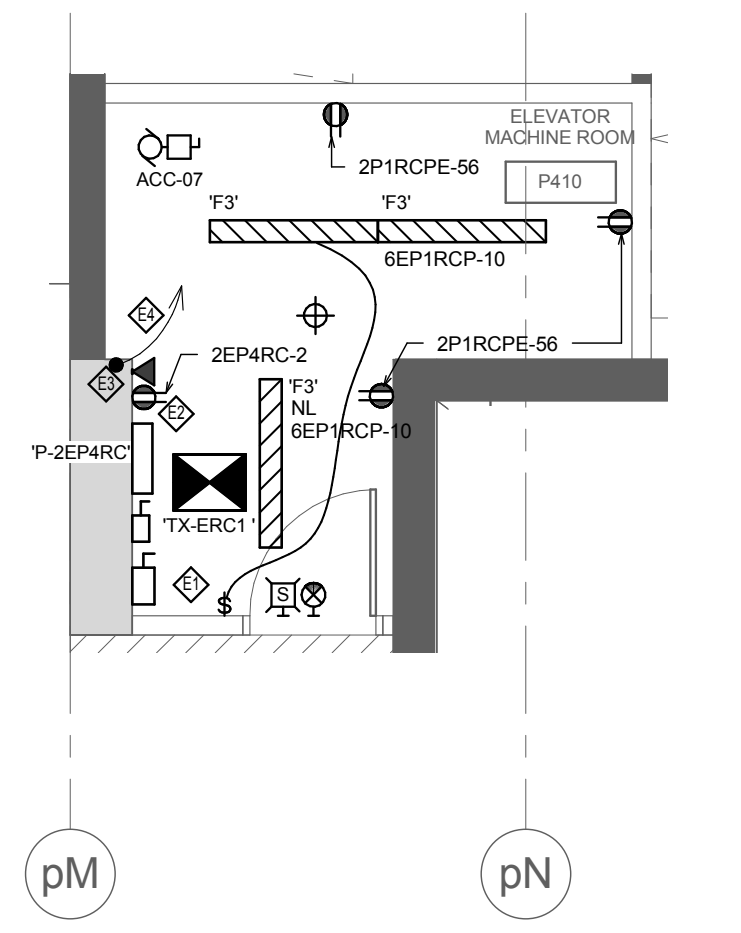
Scale: N.T.S.
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 08/28/12
Drawing No.: E0-01


RESIDENTIAL ARTSCAPE
RESIDENTIAL CONDO
PARKING GARAGE
P400
UNEXCAVATED
ELEVATOR MACHINE ROOM
P410
BOILER ROOM
CHILLER ROOM
LOCKER ROOM
BICYCLE STORAGE ROOM
INTAKE AIR SHAFT
EXHAUST AIR SHAFT
SUMP PUMP CONTROLLER
SUMP PUMP PANEL
2-35mmC CONDUIT C/W PULL WIRE TO MAIN ELECTRICAL ROOM
p1
p2
p3
p4
p5
p6
p7
p8
p9
p10
p11
p12
p13
p14
p15
p16
p17
pA
pB
pC
pD
pE
pF
pG
pH
pJ
pK
pL
pM
pN
pP
pQ
pR
pS

① LEVEL P4 - ELECTRICAL
1 : 100


RESIDENTIAL ARTSCAPE
RESIDENTIAL CONDO
PARKING GARAGE
P300
OPEN TO ARTSCAPE BOILER ROOM BELOW
OPEN TO CHILLER ROOM BELOW
OPEN TO BOILER ROOM BELOW
MECHANICAL ROOM
STORAGE ROOM
LOCKER ROOM
BICYCLE STORAGE ROOM
INTAKE AIR SHAFT
EXHAUST AIR SHAFT
p1
p2
p3
p4
p5
p6
p7
p8
p9
p10
p11
p12
p13
p14
p15
p16
p17
pA
pB
pC
pD
pE
pF
pG
pH
pJ
pK
pL
pM
pN
pP
pQ
pR
pS

② LEVEL P3 - ELECTRICAL
1 : 100


ELEVATOR MACHINE ROOM
P410
2P1RCPE-56
pM
pN

③ ELEVATOR MACH. ROOM P410
1 : 50

ELEVATOR MACHINE ROOM NOTES:

- E1 PROVIDE DISCONNECT SWITCH FOR ELEVATOR MOTOR. C/W AUXILIARY CONTACT WITH WIRING TO THE CONTROLLER. REFER TO SINGLE DIAGRAM FOR FEEDER SIZE. FUSE TO BE PROVIDE AS PER ELEVATOR SHOP.
- E2 DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
- E3 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATE TELEPHONE LINE TERMINATING AT THE PRIMARY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
- E4 CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

NOTES:

1. ALL GARAGE LIGHT FIXTURES SHALL BE TYPE 'P1' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. PROVIDE MINIUM #10 AWG WIRING FOR ALL LIGHT FIXTURES IN STAIRS AND IN CORRIDORS.
4. ALL LIGHTING FIXTURES FED FROM NORMAL POWER WITHIN THE PARKING GARAGE SHALL BE CONTROLLED BY OCCUPANCY SENSORS. ALL LIGHTING FIXTURES FED FROM EMERGENCY POWER WITHIN THIS PARKING GARAGE SHALL BE
5. ALL EXIT SIGNS ON THIS DRAWING SHALL BE TYPE 'E1', REFER TO DWG. E4-01 FOR CIRCUIT NUMBER
6. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING FOR QUANTITY AND DESCRIPTION.
7. PROVIDE 610mm x 915mm x 3mm (THICK) COPPER GROUND FLUSH PLATES. REFER TO SPECIFICATION FOR DETAILS
8. 3/0 AWG COPPER GROUND WIRE UP TO GROUND BUS IN MAIN ELECTRICAL ROOM (P1 LEVEL), REFER TO DWG. E5-01 FOR DETAILS.
9. 3/0 AWG COPPER GROUNDING CONDUCT.
10. EMERGENCY KILL SWITCHES FOR HEATING BOILERS. PROVIDE LAMACOID IDENTIFICATION PLATE. MOUNT SWITCHES AT 1100MM AFF. PROVIDE SEE THROUGH TAMPER PROOF TYPE ENCLOSURE WITH LAMACOID IDENTIFICATION NAMEPLATE. △1
11. FOR FUTURE CAR WASH CONTROLLER PROVIDE POWER 15A, 120/208V 3Ø 4W POWER CONNECTION. EXACT LOCATION TO BE COORDINATED WITH ARCHITECTURAL DRAWING.
12. DEVICE CONNECT TO FIRE ALARM SYSTEM, REFER TO SPECIFICATION FOR DETAILS..
13. HEAT DETECTORS SHOWN IN THE MECHANICAL ROOM ARE FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO CLEAR THE DETECTOR AWAY FROM MECHANICAL EQUIPMENT, PIPES AND DUCTS IN ORDER TO ALLOW THE DETECTORTO OPERATE PROPERLY. CONTRACTOR SHALL INCLUDE THE SUPPLY AND INSTALLATION OF AN ADDITIONAL 5 HEAT DETECTORS. EXACT LOCATIONS OF ADDITIONAL DETECTORS SHALL BE AS DIRECTED ON SITE AFTER COMPLETE INSTALLATION. PROVIDE HIGH TEMPERATURE HEAT DETECTOR IN BOILER ROOM.
14. MOUNTING HEIGHT 1000mm A.F.F. ALL CONDUITS C/W PULL WIRE BACK TO ELETRICAL CAR CHARGING PANEL AT EAST ELECTRICLA ROOM (P132) △1
15. PROVIDE LOCKABLE COVER, MOUNTING HEIGHT 1000mm A.F.F.

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Date: 08/28/12

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

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1	ISSUED FOR ADD E-001	2015/12/10

No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

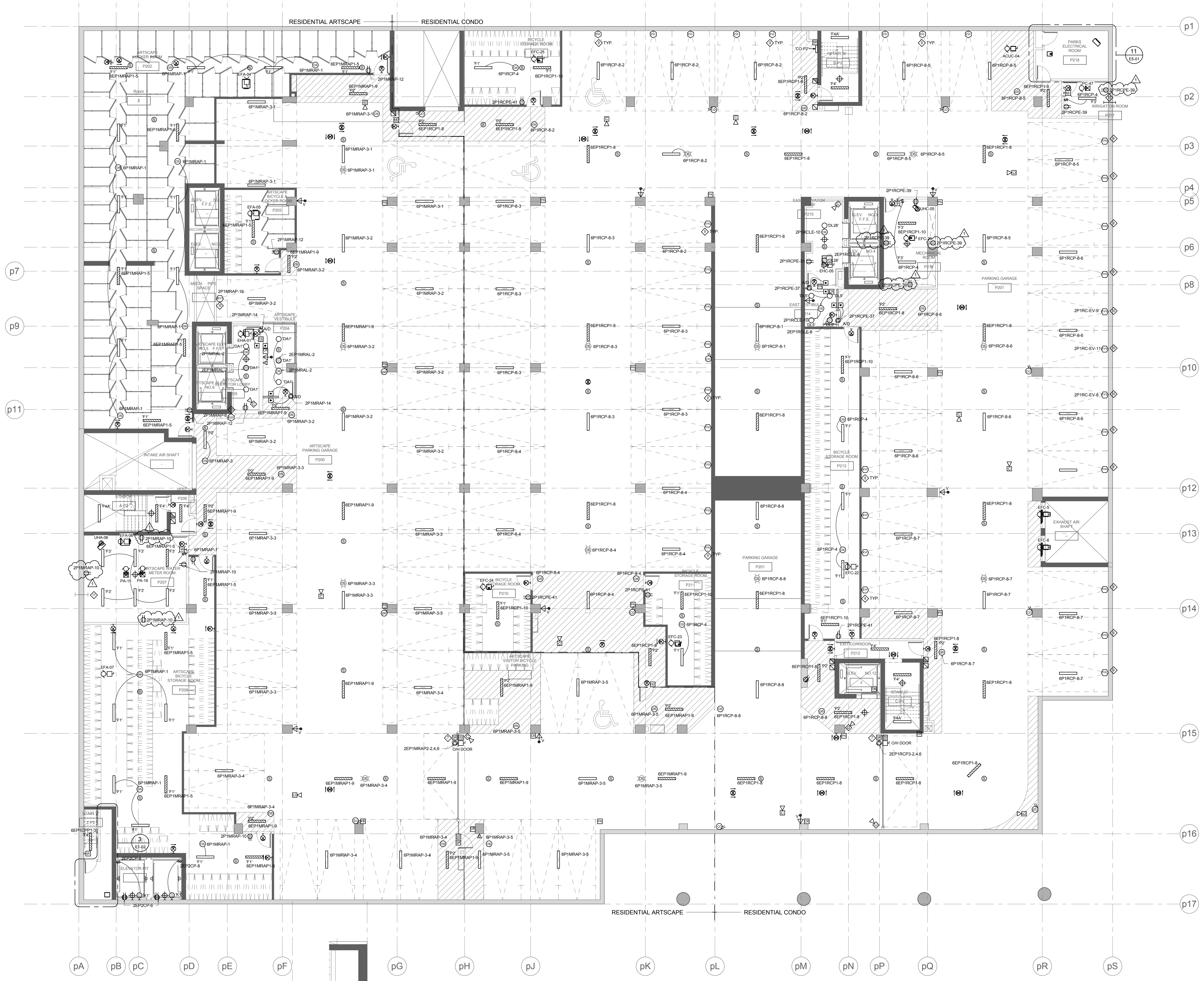
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL P4 & LEVEL P3
PARKING PLAN -
ELECTRICAL

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

Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 08/28/12
N

Drawing No.
E1-01


RESIDENTIAL ARTSCAPE
RESIDENTIAL CONDO
PARKING GARAGE
ARTSCAPE PARKING GARAGE
BICYCLE STORAGE ROOM
INTAKE AIR SHAFT
EXHAUST AIR SHAFT
p1
p2
p3
p4
p5
p6
p7
p8
p9
p10
p11
p12
p13
p14
p15
p16
p17
pA
pB
pC
pD
pF
pG
pH
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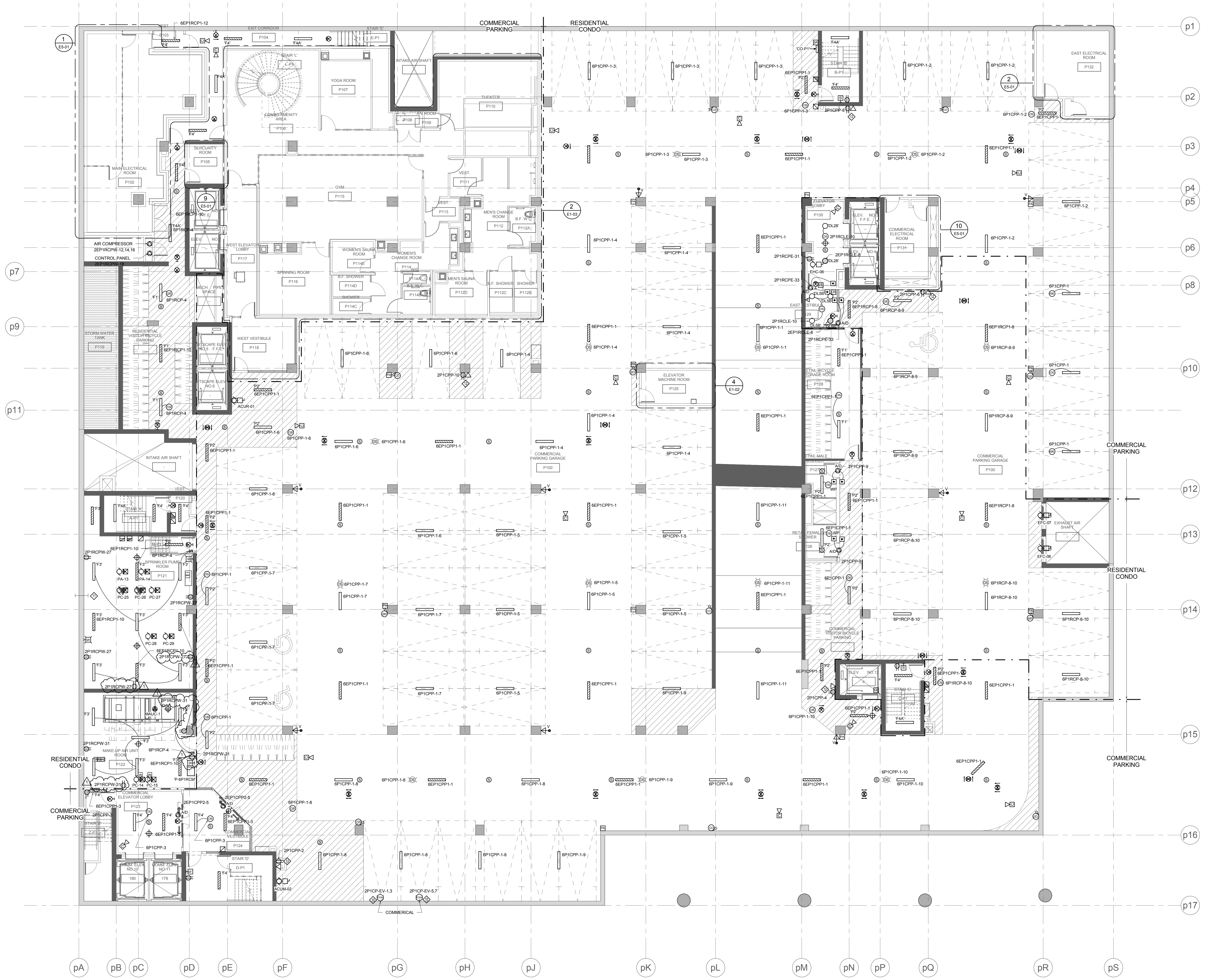
pN
pP
pQ
pR
pS

① LEVEL P2 - ELECTRICAL

1 : 100


COMMERCIAL PARKING
RESIDENTIAL CONDO
COMMERCIAL PARKING
RESIDENTIAL CONDO
COMMERCIAL PARKING
RESIDENTIAL CONDO
COMMERCIAL PARKING
COMMERCIAL PARKING GARAGE
ELEVATOR MACHINE ROOM
EAST ELECTRICAL ROOM
COMMERCIAL ELECTRICAL ROOM
MAIN ELECTRICAL ROOM
AIR COMPRESSOR
CONTROL PANEL
GYM
YOGA ROOM
SPINNING ROOM
ELEVATOR LOBBY
COMMERCIAL
p1
p2
p3
p4
p5
p6
p7
p8
p9
p10
p11
p12
p13
p14
p15
p16
p17
pA
pB
pC
pD
pE
pF
pG
pH
pJ
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pL
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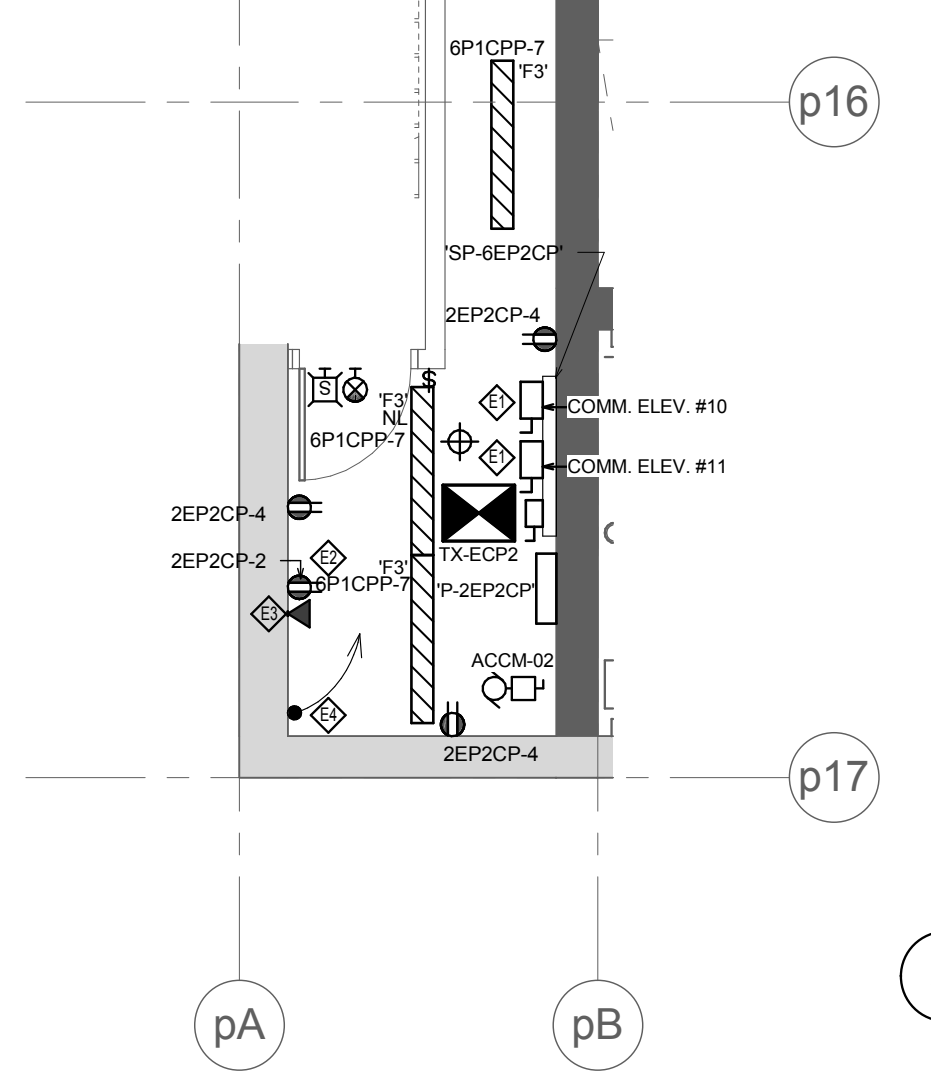
pP
pQ
pR
pS

② LEVEL P1 - ELECTRICAL

1 : 100


p16
p17
pA
pB
2EP2CP-4
COMM. ELEV. #10
COMM. ELEV. #11

③ ELEVATOR MACH. ROOM P209

1 : 50

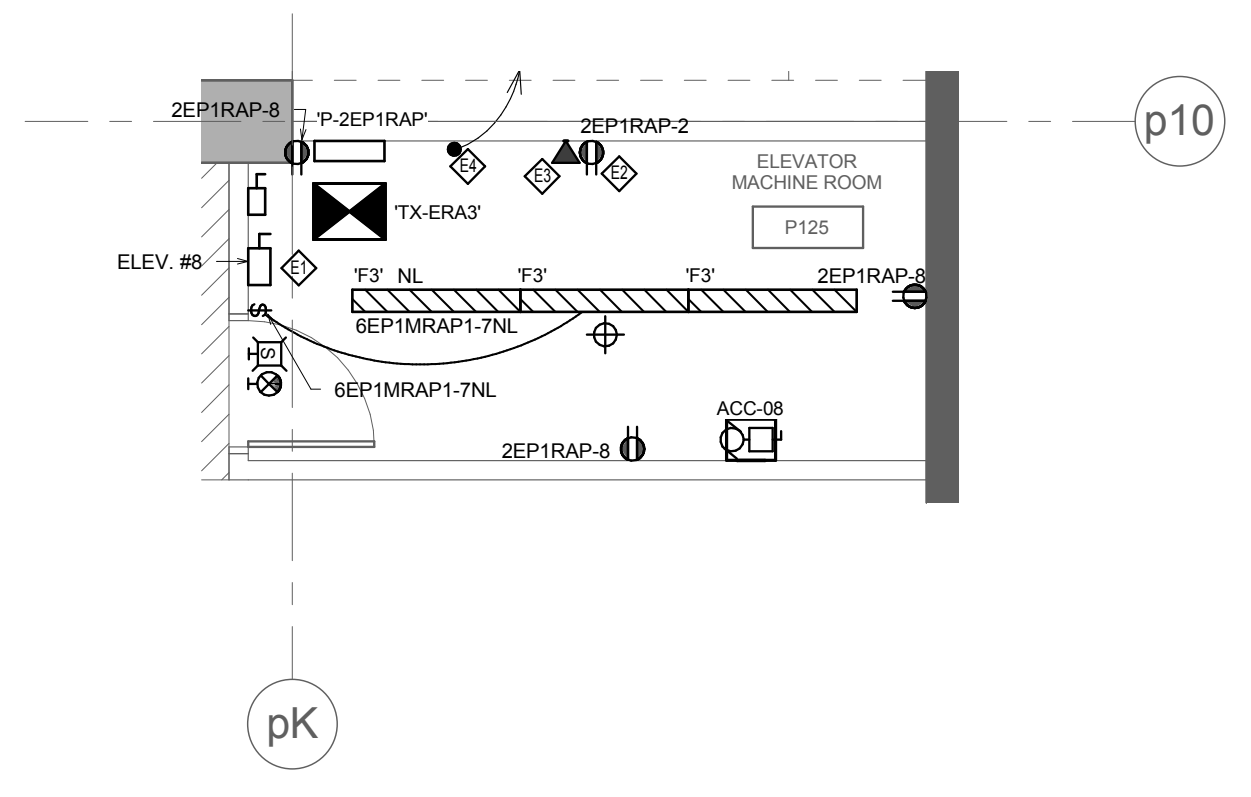
ELEVATOR MACHINE ROOM NOTES:

- E1 PROVIDE DISCONNECT SWITCH FOR ELEVATOR MOTOR. C/W AUXILIARY CONTACT WITH WIRING TO THE CONTROLLER. REFER TO SINGLE DIAGRAM FOR FEEDER SIZE. FUSE TO BE PROVIDE AS PER ELEVATOR SHOP.
- E2 DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
- E3 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATE TELEPHONE LINE TERMINATING AT THE PRIMARY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
- E4 CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

NOTES:

1. ALL GARAGE LIGHT FIXTURES SHALL BE TYPE 'P1' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. PROVIDE MINIMUM #10 AWG WIRING FOR ALL LIGHT FIXTURES IN STAIRS AND IN CORRIDORS.
4. ALL LIGHTING FIXTURES FED FROM NORMAL POWER WITHIN THE PARKING GARAGE SHALL BE CONTROLLED BY OCCUPANCY SENSORS. ALL LIGHTING FIXTURES FED FROM EMERGENCY POWER WITHIN THIS PARKING GARAGE SHALL BE
5. ALL EXIT SIGNS ON THIS DRAWING SHALL BE TYPE 'E1', REFER TO DWG. E4-01 FOR CIRCUIT NUMBER. COMMERCIAL PARKING AREA EXIT SGINS ARE FED FROM '6EP1CPP1-5' ON P1 LEVEL.
6. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING FOR QUANTITY AND DESCRIPTION.

- 7 PROVIDE JUNCTION BOX FOR O/H DOOR CONTROL. RUN CONDUIT WITH WIRING TO CONCIERGE DESK.
- 8 N/A.
- 9 MOUNTING HEIGHT 1000mm A.F.F. ALL CONDUITS C/W PULL WIRE BACK TO ELETRICAL CAR CHARGING PANEL AT EAST ELECTRICLA ROOM (P132) 1
- 10 PROVIDE LOCKABLE COVER, MOUNTING HEIGHT 1000mm A.F.F.
- 11 PROVIDE 1-20mmC CONDUIT C/W PULL WIRE FOR REMOTE WATER METER. EXACT LOCATION OF REMOTE WATER METER TO BE COORDINATED WITH THE CITY OF TORONTO REQUIREMENTS.
- 12 FOR COMMERCIAL PARKING PAY STATION.
- 13 PROVIDE 4-27mmC CONDUITS TO IRRIGATION CONTROLLERS. EXACT IRRIGATION CONTROLLER LOCATIONS TO BE COORDINATED ON SITE.


p10
pK
ELEVATOR MACHINE ROOM
P125
ELEV. #8

④ ELEVATOR MACH. ROOM P125 (ARTSCAPE)

1 : 50

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8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

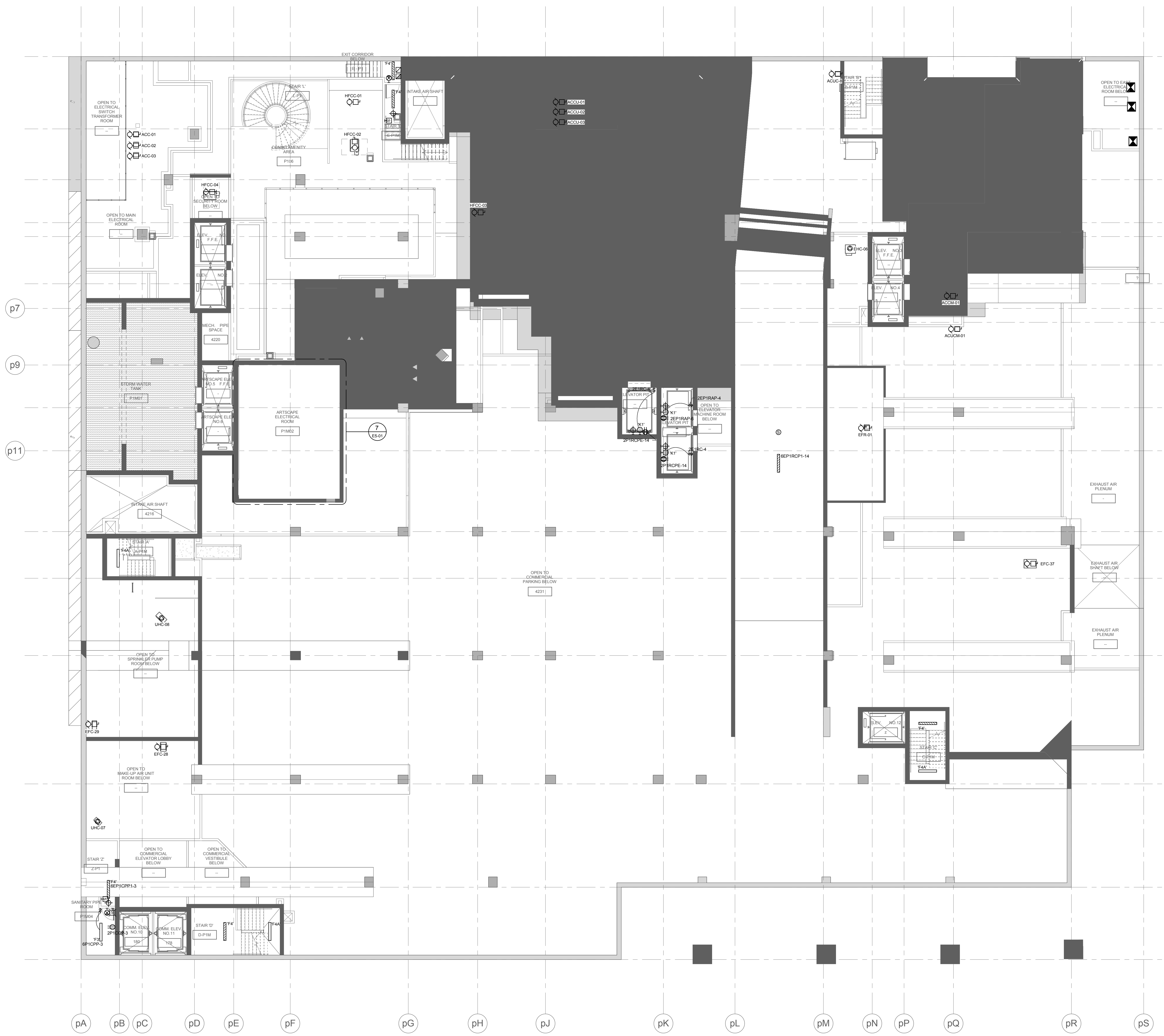
LEVEL P2 & LEVEL P1
PARKING PLAN -
ELECTRICAL

Project

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

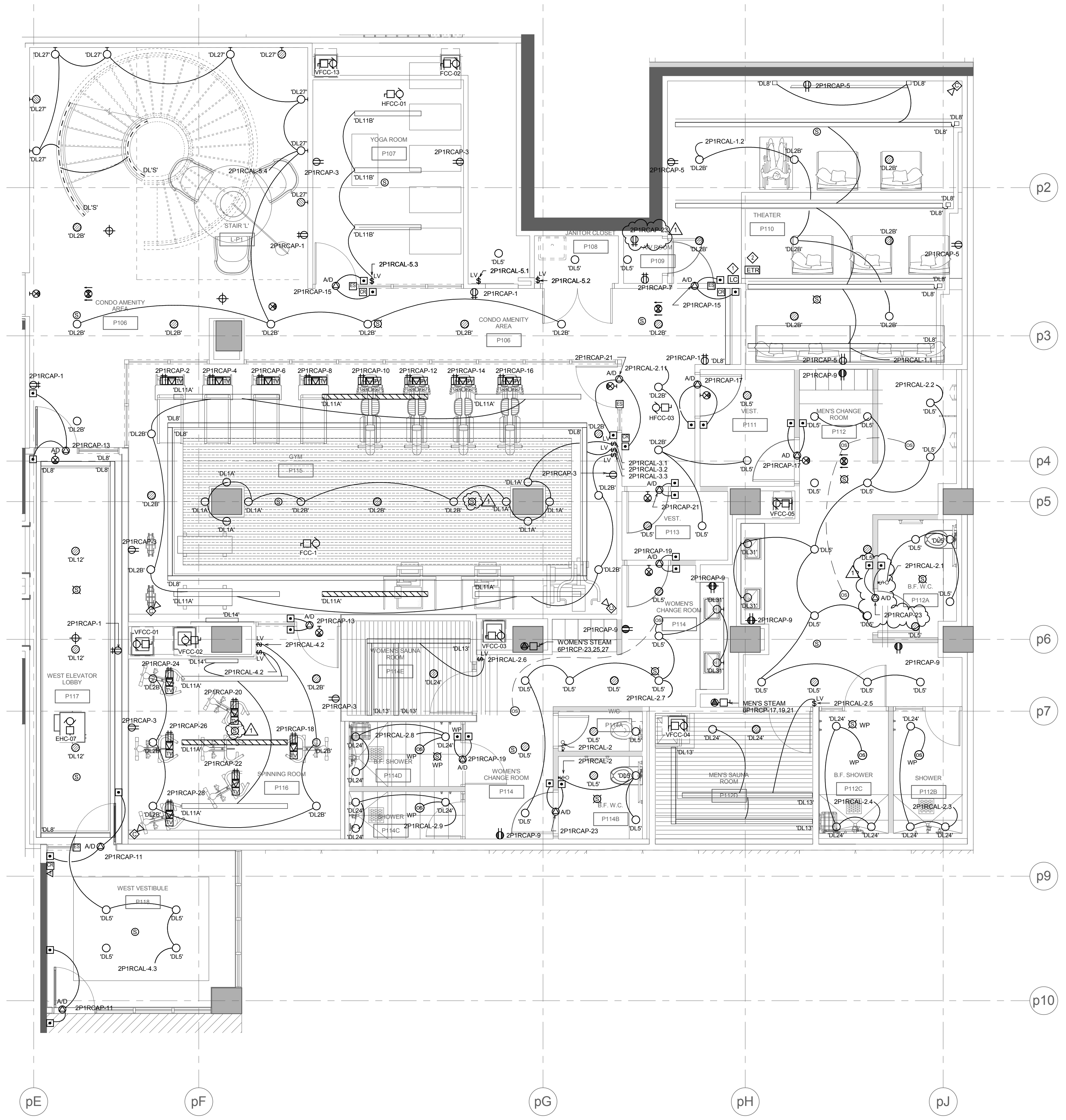
Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 03/06/15
Drawing No.: E1-02

N


p1
p2
p3
p4
p5
p6
p7
p8
p9
p10
p11
p12
p13
p14
p15
p16
p17
pA
pB
pC
pD
pE
pF
pG
pH
pJ
pK
pL
pM
pN
pP
pQ
pR
pS
OPEN TO COMMERCIAL PARKING BELOW
ARTSCAPE ELECTRICAL ROOM
EXHAUST AIR PLENUM
INTAKE AIR SHAFT

1 LEVEL P1 MEZZANINE - ELECTRICAL

1 : 100


p2
p3
p4
p5
p6
p7
p9
p10
pE
pF
pG
pH
pJ
YOGA ROOM
THEATER
CONDO AMENITY AREA
GYM
WEST ELEVATOR LOBBY
WEST VESTIBULE
MEN'S STEAM
WOMEN'S STEAM
WOMEN'S CHANGE ROOM
MEN'S CHANGE ROOM
B.F. SHOWER
SHOWER

2 AMENITY - LEVEL P1 - ELECTRICAL

1 : 50

NOTES:

1. LOCAL LIGHTING CONTROL WITH VACANCY SENSOR - WATTSTOPPER OR EQUIVALENT LMSW-105 SCENE SWITCH WITH DIMMING; ROOM CONTROOLER LMRC-212. 'DL2B' & 'DL8' SHALL BE DIMMED SEPARATELY.
2. EMERGENCY TRANSFER RELAY TO BE PROVIDED WHEN THE NORMAL POWER FAILS.
3. ALL THE EMERGENCY LIGHTING FIXTURES ARE FED FROM PANEL 2EP1RCLW-7, UNLESS OTHERWISE NOTED.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

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Date: 03/06/15

8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

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3		
2	ISSUED FOR TENDER	2015-10-30
1	BUILDING PERMIT SUBMISSION	2015-06-12

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

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

Project

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

N

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

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WEST MAIN LOBBY
RETAIL LOADING AREA
LOADING AREA
EAST ELEVATOR LOBBY
EAST MAIN LOBBY
FRESH AIR PLENUM
ARTSCAPE ELEVATOR LOBBY
RETAIL
STAIR 'P'
STAIR 'N'
STAIR 'Q'
STAIR 'S'
NORMAL LIGHTING FIXTURES 61MCRP-1
EMERGENCY LIGHTING FIXTURES 6E1MCRP-1
NORMAL LIGHTING FIXTURES 61MCRP-3
EMERGENCY LIGHTING FIXTURES 6E1MCRP-1
FOR CONTINUATION SEE SHEET E2-01B

NOTES:

1. ALL RETAIL TEMPORARY LIGHTING FIXTURES ARE TYPE 'F2' UNLESS OTHERWISE NOTED. PROVIDE SWITCHES FOR LIGHTING CONTROL.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. FIRE ALARM AND VOICE COMMUNICATION CONTROL EQUIPMENT.
5. ELEVATOR MONITORING BY DIV. 14. PROVIDE CIRCUITS AND POWER AS REQUIRED.
6. PROVIDE POWER, CONDUIT AND JUNCTION BOX FOR A COMPLETE POWER DOOR OPERATION SYSTEM IN RETAIL AREA. POWER TO COME FROM RETAIL TENANT PANEL.
7. CONCIERGE/SECURITY DESK, PROVIDE (8) 15A, 120V CIRCUITS FROM PANEL 'P-2EP1RCP2'. REFER TO SECURITY RISERS FOR ALL REQUIREMENTS ASSOCIATED WITH THE DESK. EXACT EQUIPMENT LAYOUT TO BE CO-ORDINATED WITH SECURITY CONTRACTOR AND MILLWORK SHOP DRAWINGS. (2EP1RCP2-2,4,6,8,10,12,14,16)
8. PROVIDE JUNCTION BOX FOR O/H DOOR CONTROL. RUN CONDUIT WITH WIRING TO CONCIERGE DESK.
9. RUN 1-63mm E.C. & 1-41mm E.C. FROM ELEVATOR HOISTWAY TO C.A.C.F. AND FROM C.A.C.F. TO CONCIERGE DESK. REFER TO SPECIFICATION SECTION 16110.
10. RUN 1-63mm E.C. & 1-41mm E.C. FROM ELEVATOR HOISTWAY TO C.A.C.F. AND FROM ARTSCAPE C.A.C.F. TO CONCIERGE DESK. REFER TO SPECIFICATION SECTION 16110.
11. AREA TO BE HEAT TRACED INCLUDING TRENCH DRAINS. LOADING AREA. PROVIDE 3 ZONES OF PYROTENAX CAT #SUB13 CABLES RATED AT 8000 WATTS EACH, 600V (377W/SQM). PROVIDE SNOW-MELTING CONTROLS AS PER SPECIFICATION C/W OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF GROUND FLOOR SLAB ABOVE AND SLAB SENSOR, CLEAR OF HEATED SPACE. PROVIDE 3-20A-DP GFI CIRCUITS FROM PANEL 'P-61MCRP'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
12. AREA TO BE HEAT TRACED INCLUDING TRENCH DRAINS. PARKING ENTRANCE. PROVIDE (4+2) ZONES OF PYROTENAX CAT #SUB13 CABLES RATED AT 8000 WATTS EACH, 600V (377W/SQM). PROVIDE SNOW-MELTING CONTROLS AS PER SPECIFICATION C/W OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF GROUND FLOOR SLAB ABOVE AND SLAB SENSOR, CLEAR OF HEATED SPACE. PROVIDE 6-20A-DP GFI CIRCUITS FROM PANEL 'P-6P1RCSM'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
13. MOTORIZED DOOR/LOUVERS CONTROLLED FROM CACF FOR SMOKE MANAGEMENT. REFER DETAIL-3/E4-02 FOR CONTROL DETAILS.
14. ALL ELECTRICAL WORK IN THIS AREA SHALL BE EXPLOSION PROOF CLASS 1, DIVISION 1. MAINTAIN ALL THE OTHER ELECTRICAL SERVICES OUT OF THIS AREA.
15. EXIT SIGNS IN RETAIL AREA, RETAIL LOADING AREA AND RETAIL SERVICE CORRIDOR ARE FED FROM '6E1MCRP-5'.
16. LIGHTING SHALL BE WIRED THROUGH A CONTACTOR & CONTROLLER USING A TIMER.

ELEVATOR MACHINE ROOM NOTES:

- E1 PROVIDE DISCONNECT SWITCH FOR ELEVATOR MOTOR. C/W AUXILIARY CONTACT WITH WIRING TO THE CONTROLLER. REFER TO SINGLE DIAGRAM FOR FEEDER SIZE. FUSE TO BE PROVIDE AS PER ELEVATOR SHOP.
- E2 DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
- E3 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATE TELEPHONE LINE TERMINATING AT THE PRIMARY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
- E4 CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

Contractor Must Check And Verify All Dimensions On The Job.

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Date: 03/09/15

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 1 FLOOR PLAN
NORTH - ELECTRICAL

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

N

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

Plot Date: 09/12/2015 3:23:29 PM File Path: C:\Users\administrator.MCW\Documents\8489D - Aquavista - MEP_Tao_L.rvt

FOR CONTINUATION SEE SHEET E2-01A
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pQ
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ARTSCAPE GALLERY
FRESH AIR PLENUM
VESTIBULE
STAIR 'G'
ARTSCAPE EXIT CORRIDOR
RETAIL
148
NORMAL LIGHTING FIXTURES
61MCRP-1
EMERGENCY LIGHTING FIXTURES
6E1MCRP-1
NORMAL LIGHTING FIXTURES
61MCRP-3
EMERGENCY LIGHTING FIXTURES
6E1MCRP-1
NORMAL LIGHTING FIXTURES
61MCRP-5
EMERGENCY LIGHTING FIXTURES
6E1MCRP-3
NORMAL LIGHTING FIXTURES
61MCRP-7
EMERGENCY LIGHTING FIXTURES
6E1MCRP-3
BICYCLE ACCESS CORRIDOR
EXIT CORRIDOR
STAIR 'A'
RETAIL
RESIDENTIAL CONDO
RETAIL
SIGNAGE
STAIR 'D'
NORMAL LIGHTING FIXTURES
6P1CPP-3
COMMERCIAL ELEVATOR LOBBY
RETAIL
COMMERCIAL PARKING
COMMERCIAL PARKING
RETAIL
SIGNAGE
TYP.

NOTES:

1. ALL RETAIL TEMPORARY LIGHTING FIXTURES ARE TYPE 'F2' UNLESS OTHERWISE NOTED. PROVIDE SWITCHES FOR LIGHTING CONTROL
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. PROVIDE POWER, CONDUIT AND JUNCTION BOX FOR A COMPLETE POWER DOOR OPERATION SYSTEM.
5. RUN 1-63mm E.C. & 1-41mm E.C. FROM ELEVATOR HOISTWAY TO C.A.C.F. AND FROM C.A.C.F. TO CONCIERGE DESK. REFER TO SPECIFICATION SECTION 16110.
6. MOTORIZED DOOR/LOUVERS CONTROLLED FROM CACF FOR SMOKE MANAGEMENT. REFER DETAIL-3/E4-02 FOR CONTROL DETAILS.
7. EXIT SIGNS IN RETAIL AREA, RETAIL LOADING AREA AND RETAIL SERVICE CORRIDOR ARE FED FROM '6E1MCRP-5'.
8. LIGHTING SHALL BE WIRED THROUGH A CONTACTOR & CONTROLLER USING A TIMER.

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8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 1 FLOOR PLAN
SOUTH - ELECTRICAL

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

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

N

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OPEN TO WEST MAIN LOBBY BELOW
INTAKE AIR SHAFT
RETAIL MAKE-UP AIR UNIT ROOM
OPEN TO LOADING AREA BELOW
RESIDENTIAL ARTSCAPE
ELEV. NO.1
ELEV. NO.2
ELEV. NO.3
ELEV. NO.4
MECH. PIPE SPACE
MECH. P.S.
OPEN TO EAST MAIN LOBBY BELOW
OPEN TO EAST ENTRANCE VESTIBULE BELOW
FRESH AIR PLENUM
RETAIL ELECTRICAL ROOM
SERVICE CORRIDOR
FOR CONTINUATION SEE SHEET E2-02B
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NOTES:

1. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.

④ EXACT LOCATION FOR POOL EQUIPMENT REFER TO POOL EQUIPMENT SHOP DRAWING.

⑤ EMERGENCY STOP SYSTEM REFER TO POOL EQUIPMENT SHOP DRAWING FOR DETAIL.

⑥ EMERGENCY KILL SWITCHES FOR HEATING BOILERS. PROVIDE LAMACOID IDENTIFICATION PLATE. MOUNT SWITCHES AT 1100MM AFF. PROVIDE SEE THROUGH TAMPER PROOF TYPE ENCLOSURE WITH LAMACOID IDENTIFICATION NAMEPLATE. △1

⑦ DEVICE CONNECT TO FIRE ALARM SYSTEM, REFER TO SPECIFICATION FOR DETAILS..

⑧ HEAT DETECTORS SHOWN IN THE MECHANICAL ROOM ARE FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO CLEAR THE DETECTOR AWAY FROM MECHANICAL EQUIPMENT, PIPES AND DUCTS IN ORDER TO ALLOW THE DETECTORTO OPERATE PROPERLY. CONTRACTOR SHALL INCLUDE THE SUPPLY AND INSTALLATION OF AN ADDITIONAL 5 HEAT DETECTORS. EXACT LOCATIONS OF ADDITIONAL DETECTORS SHALL BE AS DIRECTED ON SITE AFTER COMPLETE INSTALLATION. PROVIDE HIGH TEMPERATURE HEAT DETECTOR IN BOILER ROOM.

⑨ SECURITY DESK, PROVIDE (8) 15A, 120V CIRCUITS FROM PANEL 'P-2EP1RAP2'. REFER TO SECURITY RISERS FOR ALL REQUIREMENTS ASSOCIATED WITH THE DESK. EXACT EQUIPMENT LAYOUT TO BE CO-ORDINATED WITH SECURITY CONTRACTOR AND MILLWORK SHOP DRAWINGS. (2EP1RAP2-2,4,6,8,10,12,14,16)

⑩ EXIT SIGNS IN RETAIL MECHANICAL ROOM AND ELECTRICAL ROOM ARE FED FROM '6E1MCRP-5'.

⑪ LIGHTING SHALL BE WIRED THROUGH A CONTACTOR & CONTROLLER USING A TIMER.

ELECTRICAL ROOM NOTES:

E1 GROUND BUSS INTERCONNECTED WITH #3/0 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #3/0 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.

E2 PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.

E3 PROVIDE 1200mm(W) X 2440mm(H) X 19mm(D) PLYWOOD BACKBOARD. REFER TO COMMUNICATION / SECURITY RISER E4-05 / E4-06 FOR CONDUITS DETAIL.

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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 1 MEZZANINE
FLOOR PLAN NORTH -
ELECTRICAL

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

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Drawing No.
E2-02A

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL (MIRRORED)
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
FOR MICROWAVE SEE ID DWG FOR LOCATION
COLD SLAB WARMING CIRCUITS FED FROM
HEAT TRACED PATH FED FROM
FUTURE MILLWORK LIGHTING
FIREPLACE
LOUNGE AREA
BILLIARDS ROOM
CATERING KITCHEN
WEST ELEVATOR LOBBY
EAST ELEVATOR LOBBY
NORTH CORRIDOR
WEST CORRIDOR
EAST CORRIDOR
ARTSCAPE NORTH CORRIDOR
ARTSCAPE WEST CORRIDOR
ARTSCAPE ELEVATOR LOBBY
GARBAGE ROOM
ELEC. CL.
GUEST SUITE
FOR CONTINUATION SEE SHEET E2-03B
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NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).
5. SLAB WARMING CABLES BELOW SUITES AT LEVEL 1 MEZZ FLOOR. PROVIDE SYSTEM BASED ON -1ºC STARTING TEMPERATURE WITH R20 INSULATION VALUE OF RAYSOL 1 SYSTEM HEAT LOSS REPLACEMENT CABLE AND LINE VOLTAGE THERMOSTAT AS REQUIRED. PROVIDE 2-20A/208V GFI BREAKERS FOR CIRCUITS.
6. PROVIDE MINIMUM ONE HEAT SENSOR ON CEILING CAVITY AT HEATED SLAB FOR EACH CIRCUIT.
7. AREA TO BE HEAT TRACED. PROVIDE 2 ZONE OF PYROTENAX CAT #SUB13 CABLES RATED AT 8000 WATTS EACH, 600V (377W/SQM). PROVIDE SNOW-MELTING CONTROLS AS PER SPECIFICATION C/W OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF FLOOR SLAB ABOVE AND SLAB SENSOR, CLEAR OF HEATED SPACE. PROVIDE 2-20A-DP GFI CIRCUITS FROM PANEL 'P-6P1RCSM'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
8. TYPE 'SA10' LIGHTING FIXTURES ARE LOCATED ON LEVEL 2 ONLY.
9. TYPE 'X1' LIGHTING FIXTURES ARE LOCATED ON LEVEL 2 ONLY. 1

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D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
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1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 2 FLOOR PLAN
NORTH - ELECTRICAL

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

Scale
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Checked by
Checker
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Date
03/09/15
Drawing No.
E2-03A

FOR CONTINUATION SEE SHEET E2-03A
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
1 1B1 201
5 S3T 205
4 1J+DT 204
2 1F+DT 202
3 S6T 203
9 1VT 213
13 1D+DT 218
12 2L+DT 217
11 S5T 216
STAIR 'G' G-2
WEST CORRIDOR
EAST CORRIDOR
HEAT TRACED PATH FED FROM 6P1RCSM-22,24 6P1RCSM-26,28
HEAT TRACED PATH FED FROM 6P1RCSM-10,12 6P1RCSM-14,16 6P1RCSM-18,20
'LS1' 2EP1RCLW-8
'LS1' 2P1RCOD-19
WHP
'SA10'

NOTES:

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

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

◇5 AREA TO BE HEAT TRACED. PROVIDE (3+2) ZONE OF PYROTENAX CAT #SUB13 CABLES RATED AT 8000 WATTS EACH, 600V (377W/SQM). PROVIDE SNOW-MELTING CONTROLS AS PER SPECIFICATION C/W OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF FLOOR SLAB ABOVE AND SLAB SENSOR, CLEAR OF HEATED SPACE. PROVIDE 5-20A-DP GFI CIRCUITS FROM PANEL 'P-6P1RCSM'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.

◇6 TYPE 'SA10' LIGHTING FIXTURES ARE LOCATED ON LEVEL 2 ONLY.

◇7 TYPE 'X1' LIGHTING FIXTURES ARE LOCATED ON LEVEL 2 ONLY. △1

POOL NOTES:

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

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

◇P3 POOL REINFORCING SHALL BE BONDED WITH A MINIMUM OF TWO CONNECTIONS EQUALLY SPACED AROUND THE PERIMETER. BONDING CONDUCTORS FOR THE POOL SHALL BE MINIMUM 6AWG.

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

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

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

◇P7 EMERGENCY PHONE OUTLET @ 1200mm A.F.F

◇P8 EMERGENCY VISUAL AND AUDIBLE ALARM.

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Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10

No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 2 FLOOR PLAN
SOUTH - ELECTRICAL

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

N

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

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 205 FOR TYPICAL
5 2A 305
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 204 FOR TYPICAL
4 3A 304
6 2C 306
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 206 FOR TYPICAL
7 2Bb 307
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 208 FOR TYPICAL
8 1A 308
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL (MIRRORED)
9 2B2 309
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 210 FOR TYPICAL
10 3Bb 310
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 223 FOR TYPICAL
21 1A 323
20 1U 322
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 222 FOR TYPICAL
ARTSCAPE ELEC.CL 314
ELEC. CL. 311
Sim
ARTSCAPE NORTH CORRIDOR 313
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A FOR TYPICAL CORRIDOR LAYOUT
WEST ELEVATOR LOBBY 301
EAST ELEVATOR LOBBY 308
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 221 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
3 1B3 303
OPEN TO AMENITY BELOW
OPEN TO CORRIDOR BELOW
19 1E 321
8 1D+D 308
9 1Q 311
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
2 1B2 302
7 2C 307
10 2D 312
18 1K 320
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 220 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 219 FOR TYPICAL
17 1L+D1 319
6 2B1 306
11 1K+D1 313
1 1Bb 301
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
FOR CONTINUATION SEE SHEET E2-04B
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 218 FOR TYPICAL
16 1M+D 318
WHP
A B C D E F G H K L M N P Q R S T
p1 p2 p3 p4 p5 p6 p7 p8 p9 p10 p11 p13
25 26 27 28 29 30
31A pD pE 48 49 50 51 60 61 62 63 pN pP 80 81

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).

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Date: 08/28/12

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 3 FLOOR PLAN NORTH - ELECTRICAL

Project

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

Scale
1 : 50
Drawn by
Author
Checked by
Checker
Project No.
8489D
Date
08/28/12
Drawing No.
E2-04A

N

FOR CONTINUATION SEE SHEET E2-04A
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 301 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 204 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 202 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 203 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 218 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 217 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 216 FOR TYPICAL
WEST CORRIDOR
EAST CORRIDOR

NOTES:

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D. C. M. BELLAMY

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E-Mail: mcw_tor@mcw.com www.mcw.com
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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 3 FLOOR PLAN
SOUTH - ELECTRICAL

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

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

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6
ARTSCAPE GARBAGE ROOM
415
FA
3592
PS (A)
3595
ARTSCAPE ELEC. CL
414
ARTSCAPE NORTH CORRIDOR
413
ELEV. NO.1 F.F.E.
ELEV. NO.2
WEST ELEVATOR LOBBY
401
STAIR 'H'
ARTSCAPE WEST CORRIDOR
416
WEST CORRIDOR
402
GARBAGE ROOM
403
FA (C)
3584
FA (A)
3535
FLUE (A)
3589
ELEC. CL
404
ARTSCAPE ELEVATOR LOBBY
417
PS (C)
3601
ELEC. CL
405
ARTSCAPE WEST CORRIDOR
418
STAIR 'G'
G-4
WEST
412
ELEC. CL
411
GARBAGE ROOM
410
FA (C)
3527
EAST CORRIDOR
409
PS (C)
3579
STAIR 'J'
ELEV. NO.3 F.F.E.
ELEV. NO.4
EAST ELEVATOR LOBBY
408
EAST CORRIDOR
407
PS (B)
ELEC. CL
406
1 1Bb 401
2 1B2 402
3 1B3 403
4 3A 404
5 2A 405
6 2C 406
7 2Bb 407
8 1A 408
9 2B2 409
10 3Bb 410
23 1A 423
22 1U1 422
21 1E 421
20 1K 420
19 1L+D 419
18 1M+D1 418
8 1D+D 405
7 2C1 407
6 2B 406
9 S2a
10 S4a
11 1G 411
12 2D1 412
13 1K+D 413
WHP
Sim

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 208 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 206 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 208 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL (MIRRORED)

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 210 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 223 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 222 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 204 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A FOR TYPICAL CORRIDOR LAYOUT

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 201 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 308 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 311 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 221 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 220 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 307 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 312 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 219 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 306 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 313 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 218 FOR TYPICAL

FOR CONTINUATION SEE SHEET E2-05B

NOTES:

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Date: 03/09/15

8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
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1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 4 FLOOR PLAN
NORTH - ELECTRICAL

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

N

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

Plot Date: 09/12/2015 3:24:47 PM File Path: C:\Users\administrator.MCW\Documents\8489D - Aquavista - MEP_Tao_L.rvt

FOR CONTINUATION SEE SHEET E2-05A
1 1Bb 401
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
6 2B 406
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 306 FOR TYPICAL
STAIR 'G' G-4
5 2A1 405
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 305 FOR TYPICAL
1 1E+D1 401
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 301 FOR TYPICAL
4 1J+D 404
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 204 FOR TYPICAL
2 1F+D 402
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 202 FOR TYPICAL
3 S6 403
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 203 FOR TYPICAL
ELEC. CL.
13 1K+D 413
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 313 FOR TYPICAL
18 1M+D1 418
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 218 FOR TYPICAL
14 1G+D1 414
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 314 FOR TYPICAL
STAIR 'K' K-4
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 217 FOR TYPICAL
17 2L+D1 417
15 2F 415
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 315 FOR TYPICAL
16 S5 416
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 216 FOR TYPICAL

NOTES:

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8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
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1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 4 FLOOR PLAN
SOUTH - ELECTRICAL

Project

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

N

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

Plot Date: 09/12/2015 3:24:54 PM File Path: C:\Users\administrator.MCW\Documents\8489D - Aquavista - MEP_Tao_L.rvt

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UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 204 FOR TYPICAL
4 3A 504
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 205 FOR TYPICAL
5 2A 505
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 206 FOR TYPICAL
6 2C 506
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL
7 2Bb 507
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 208 FOR TYPICAL
8 1A 508
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL (MIRRORED)
9 2B2 509
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 210 FOR TYPICAL
10 3Bb 510
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 223 FOR TYPICAL
23 1A 523
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 222 FOR TYPICAL
22 1U 522
PS (A) 3633
ARTSCAPE GARBAGE ROOM 515
FA 3617
PS (A) 3620
ARTSCAPE ELEC CL 514
8 E5-01
Sim
ELEC. CL. 511
5 E5-01
GARBAGE ROOM 510
FA (C) 3606
VEST. 512
EAST CORRIDOR 509
PS (C) 3973
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A FOR TYPICAL CORRIDOR LAYOUT
ARTSCAPE NORTH CORRIDOR 513
WHP
'DL20'
'DL8'
'DL12'
'DL21'
'DL22A'
'DL22B'
'F4'
'F4A'
'Q'
JB
RCE6
RCE5
RCE4
RCE3
RCW5
RCW4
RCW3
RCW2
ELEV. NO.1 F.F.E.
ELEV. NO.2
WEST ELEVATOR LOBBY 501
STAIR 'H' H-5
WEST CORRIDOR 502
GARBAGE ROOM 503
ARTSCAPE WEST CORRIDOR 516
FA (A) 3614
FA (C) 3613
FLUE (A) 3615
ELEC. CL. 504
4 E5-01
ARTSCAPE ELEVATOR LOBBY 517
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
3 1B3 503
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
2 1B2 502
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
1 1Bb 501
ELEC. CL. 505
3 E5-01
ARTSCAPE WEST CORRIDOR 518
STAIR 'G' G-5
9 S2a 509
UNLESS OTHERWISE NOTED SEE DRAWING E2-05A SUITE 409 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 308 FOR TYPICAL
8 1D+D 508
7 2C 507
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 307 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 306 FOR TYPICAL
6 2B1 506
UNLESS OTHERWISE NOTED SEE DRAWING E2-05A SUITE 410 FOR TYPICAL
10 S4a 510
11 1Q 511
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 311 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 312 FOR TYPICAL
12 2D 512
13 1K+D1
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 313 FOR TYPICAL
STAIR 'J' J-5
ELEV. NO.3 F.F.E.
ELEV. NO.4
EAST ELEVATOR LOBBY 508
EAST CORRIDOR 507
PS (R) 3967
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 221 FOR TYPICAL
21 1E 521
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 220 FOR TYPICAL
20 1K 520
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 219 FOR TYPICAL
19 1L+D1 519
ELEC. CL. 506
6 E5-01
18 1M+D 518
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 218 FOR TYPICAL

FOR CONTINUATION SEE SHEET E2-06B

NOTES:

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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

FOR CONTINUATION SEE SHEET E2-06A
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
1 1Bb 501
6 2B1 506
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 306 FOR TYPICAL
STAIR 'G'
G-5
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 301 FOR TYPICAL
5 2A 505
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 305 FOR TYPICAL
1 1E+D 501
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 204 FOR TYPICAL
4 1J+D 504
2 1F+D1 502
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 202 FOR TYPICAL
3 S6-1 503
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 203 FOR TYPICAL
ELEC. CL.
506
6
E5-01
Sim
13 1K+D1
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 313 FOR TYPICAL
18 1M+D 518
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 218 FOR TYPICAL
14 1G+D 514
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 314 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 217 FOR TYPICAL
STAIR 'K'
K-5
17 2L+Da 517
15 2F1 515
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 315 FOR TYPICAL
16 S5 516
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 216 FOR TYPICAL
'DL21'
'DL22A'
'F4'
'F4A'
RCW1
RCW2
RCE1
RCE2
RCE3
WHP
A
B
C
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Date: 03/09/15

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10

No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 5 FLOOR PLAN
SOUTH - ELECTRICAL

Project

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

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

N

Plot Date: 09/12/2015 3:25:08 PM File Path: C:\Users\administrator.MCW\Documents\8489D - Aquavista - MEP_Tao_L.rvt

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 204 FOR TYPICAL
4 3A 604
5 2A 605
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 205 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 206 FOR TYPICAL
6 2C 606
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL
7 2Bb 607
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 208 FOR TYPICAL
8 1A 608
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL (MIRRORED)
9 2B2 609
UNLESS OTHERWISE NOTED SEE DRAWING E2-XX SUITE XX FOR TYPICAL
10 3Bb 610
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 223 FOR TYPICAL
23 1A 623
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 222 FOR TYPICAL
22 1U1 622
ARTSCAPE GARBAGE ROOM 615
PS (A) 3740
FA 3700
PS (A) 3740
ARTSCAPE ELEC. CL. 614
ELEC. CL. 611
GARBAGE ROOM
FA (C) 3640
EAST CORRIDOR 609
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A FOR TYPICAL CORRIDOR LAYOUT
ARTSCAPE NORTH CORRIDOR 613
ARTSCAPE NORTH CORRIDOR 613
ELEV. NO.1 F.F.E.
ELEV. NO.2
WEST ELEVATOR LOBBY 601
STAIR 'H' H-6
WEST CORRIDOR 602
GARBAGE ROOM 603
ARTSCAPE WEST CORRIDOR 616
FA (A) 3642
FA (C) 3661
FLUE (A) 3686
ELEC. CL. 604
PS (C) 3974
ELEV. NO.3 F.F.E.
ELEV. NO.4
EAST ELEVATOR LOBBY 608
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 221 FOR TYPICAL
21 1E 621
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
3 1B3 603
UNLESS OTHERWISE NOTED SEE DRAWING E2-05A SUITE 409 FOR TYPICAL
9 S2a 609
UNLESS OTHERWISE NOTED SEE DRAWING E2-05A SUITE 410 FOR TYPICAL
10 S4a 610
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 308 FOR TYPICAL
8 1D+D 608
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 311 FOR TYPICAL
11 1Q 611
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 220 FOR TYPICAL
20 1K 620
ARTSCAPE ELEVATOR LOBBY 617
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
2 1B2 602
7 2C1 607
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 307 FOR TYPICAL
12 2D1 612
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 312 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 219 FOR TYPICAL
19 1L+D 619
ARTSCAPE WEST CORRIDOR 618
ELEC. CL. 605
ELEC. CL. 606
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
1 1Bb 601
6 2B 606
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 306 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 313 FOR TYPICAL
13 1K+D 613
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 218 FOR TYPICAL
18 1M+D1 618
STAIR 'G' G-6
EAST CORRIDOR 607
FOR CONTINUATION SEE SHEET E2-07B
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NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).

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1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 6 FLOOR PLAN
NORTH - ELECTRICAL

Project

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

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

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FOR CONTINUATION SEE SHEET E2-07A
STAIR 'G'
G-6
STAIR 'K'
K-6
ELEC. CL.
606
Sim
EAST CORRIDOR
607
1 1Bb 601
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
6 2B 606
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 306 FOR TYPICAL
5 2A1 605
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 305 FOR TYPICAL
1 1E+D1 601
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 301 FOR TYPICAL
4 1J+D 604
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 204 FOR TYPICAL
2 1F+D 602
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 202 FOR TYPICAL
3 S6 603
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 203 FOR TYPICAL
13 1K+D 613
UNLESS OTHERWISE NOTED SEE DRAWING E2-04A SUITE 313 FOR TYPICAL
18 1M+D1 618
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 218 FOR TYPICAL
14 1G+Da 614
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 314 FOR TYPICAL
17 2J 617
15 2F 615
UNLESS OTHERWISE NOTED SEE DRAWING E2-04B SUITE 315 FOR TYPICAL
16 S5 616
UNLESS OTHERWISE NOTED SEE DRAWING E2-03B SUITE 216 FOR TYPICAL
WHP
RCW1
RCW2
RCE1
RCE2
RCE3
FCC-2
'DL21'
'DL22A'
'F4'
'F4A'
'S1'
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'S7'
'S8'
'S9'
'CP'
'SP'
A B C D E F G H K L M N P Q R S T
pA pD pE pN pP pR

NOTES:

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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 6 FLOOR PLAN
SOUTH - ELECTRICAL

Project

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

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

Plot Date: 09/12/2015 3:25:22 PM File Path: C:\Users\administrator.MCW\Documents\8489D - Aquavista - MEP_Tao_L.rvt

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UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 205 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 204 FOR TYPICAL
4 3A 704
6 2C 706
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 206 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL
7 2B1 707
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 208 FOR TYPICAL
8 1A 708
9 2B2 709
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL (MIRRORED)
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 210 FOR TYPICAL
10 3B 710
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 223 FOR TYPICAL
18 1A 723
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 222 FOR TYPICAL
17 1D 722
ARTSCAPE GARBAGE ROOM 715
PS (A) 3806
FA 3807
PS (A) 3808
ARTSCAPE ELEC.CL. 714
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A FOR TYPICAL CORRIDOR LAYOUT
ARTSCAPE NORTH CORRIDOR 713
ELEC. CL. 711
GARBAGE ROOM
VEST. 712
EAST CORRIDOR 709
FA (C) 3796
PS (C) 3975
STAIR 'J'
ELEV. NO.3 F.F.E.
ELEV. NO.4
EAST ELEVATOR LOBBY 708
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 221 FOR TYPICAL
16 1E 721
ELEV. NO.1 F.F.E.
ELEV. NO.2
WEST ELEVATOR LOBBY 701
STAIR 'H'
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
3 1B3 703
ARTSCAPE WEST CORRIDOR 716
WEST CORRIDOR 702
GARBAGE ROOM 703
FA (C) 3803
FA (A) 3804
FLUE (A) 3805
ELEC. CL. 704
7 B2T 709
8 B4T 710
1PT 706
EAST CORRIDOR 707
9 1JT 711
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 220 FOR TYPICAL
15 1K 720
ARTSCAPE ELEVATOR LOBBY 717
5 1TT 707
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
2 1B2 702
10 1C+DT 712
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UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 219 FOR TYPICAL
14 1L+D1 719
ARTSCAPE WEST CORRIDOR 718
ELEC. CL. 705
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4 1NT 705
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58
11 1NS 718
ELEC. CL. 706
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
1 1B1 701
6
FOR CONTINUATION SEE SHEET E2-08B
STAIR 'G'
52
59

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).
5. TYPE 'X1' LIGHTING FIXTURES ARE LOCATED ON LEVEL 7 ONLY.

1

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1	WT REVIEW	2015-05-01

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

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UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
1 1B1 701
STAIR 'G'
G-7
FOR CONTINUATION SEE SHEET E2-08A
1 1B+Da 701
3 2ET 705
2 S?T 703
4 1NT
11
13 2M 715
12 S8T 716
STAIR 'K'
K-7
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NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. WEATHER PROOF JUNCTION BOX FOR IRRIGATION CONTROL SYSTEM. PROVIDE 1-27mmC CONDUITS TO IRRIGATION ROOM ON P2 LEVEL. EXACT LOCATION AND JUNCTION BOX SIZE TO BE COORDINATED WITH IRRIGATION SHOP DRAWING.
5. TYPE 'X1' LIGHTING FIXTURES ARE LOCATED ON LEVEL 7 ONLY.
6. PROVIDE A 30A, 208V-1ø SURFACE MOUNTED WEATHERPROOF TWIST- LOCK TYPE RECEPTACLE FOR WINDOW WASHING, C/W STRAIN RELIEF EYEBOLT HUBBELL CAT# HBL2620SW (EEMAC L6-30R). PROVIDE ALSO A 120 VOLT DUPLEX RECEPTACLE.

1

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AT BAYSIDE TORONTO

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LEVEL 7 FLOOR PLAN
SOUTH - ELECTRICAL

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Block 3 - R3 & R4
Queen's Quay East
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1C+D
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1L+D
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1M1
813
PS (A)
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ARTSCAPE GARBAGE ROOM
815
FA
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PS (A)
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ARTSCAPE ELEC CL
814
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E5-01
Sim
ARTSCAPE NORTH CORRIDOR
813
ELEC. CL.
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E5-01
Sim
GARBAGE ROOM
810
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'Q'
VEST.
812
EAST CORRIDOR
809
FA (C)
3818
PS (C)
3976
FA (C)
3820
EX (R)
3821
RCE6
STAIR 'J'
J-8
'F4'
'F4A'
ELEV. NO.3
F.F.E.
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ELEV. NO.4
--
EAST ELEVATOR LOBBY
808
FLUE
3819
RCE5
EAST CORRIDOR
807
PS (R)
3952
RCE4
ELEC. CL.
806
6
E5-01
Sim
FA (C)
3837
RCE3
'S6'
'S2'
ELEV. NO.1
F.F.E.
--
ELEV. NO.2
--
WEST ELEVATOR LOBBY
801
ARTSCAPE WEST CORRIDOR
816
STAIR 'H'
H-8
RCW5
WEST CORRIDOR
802
GARBAGE ROOM
803
FA (A)
3826
FA (C)
3825
FLUE (A)
3827
ELEC. CL.
804
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ARTSCAPE ELEVATOR LOBBY
817
ELEC. CL.
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E5-01
Sim
RCW3
ARTSCAPE WEST CORRIDOR
818
STAIR 'G'
G-8
RCW2
'DL8'
'DL12'
'DL20'
'DL21'
'DL22A'
'DL22B'

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 204 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 205 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 206 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 208 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL (MIRRORED)

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 210 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 223 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 222 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A FOR TYPICAL CORRIDOR LAYOUT

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-05A SUITE 409 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 710 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 221 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 708 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 711 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 220 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 707 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 712 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 219 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 706 FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 713FOR TYPICAL

UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL

FOR CONTINUATION SEE SHEET E2-09B

NOTES:

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3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
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Date: 03/09/15

8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10

No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 8 FLOOR PLAN
NORTH - ELECTRICAL

Project

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

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

N

FOR CONTINUATION SEE SHEET E2-09A
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 706 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08B SUITE 701 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08B SUITE 705 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 713FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08B SUITE 718 FOR TYPICAL
1 1B1 801
1 1B+D1 801
2 S7 803
3 2E 805
4 1N1 806
11 813
12 2G 816
13 S6 816
14 2M1 818
STAIR 'G'
G-8
STAIR 'Kx'
Kx-8
ELEC. CL.
806
6 E5-01
Sim
RCW1
RCW2
RCE2
RCE3
WHP
'DL21'
'DL22A'
'F4'
'F4A'
'S1'
'S2'
'S8'
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NOTES:

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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 8 FLOOR PLAN
SOUTH - ELECTRICAL

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

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

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5 2A 905
UNLESS OTHERWISE NOTED SEE DRAWING E2-02A SUITE 205 FOR TYPICAL
4 3A 904
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 204 FOR TYPICAL
6 2C 906
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 206 FOR TYPICAL
ARTSCAPE GARBAGE ROOM 915
PS (A) 3854
FA 3851
PS (A) 3852
ARTSCAPE ELEC CL 914
8 E5-01
Sim
WHP
7 2B1 907
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL
8 1A 908
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 208 FOR TYPICAL
9 2B2 909
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 207 FOR TYPICAL (MIRRORED)
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A FOR TYPICAL CORRIDOR LAYOUT
ARTSCAPE NORTH CORRIDOR 913
10 3B 910
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 210 FOR TYPICAL
ELEC. CL. 911
5 E5-01
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 223 FOR TYPICAL
18 1Aa 923
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 222 FOR TYPICAL
17 1Ua 922
JB
'Q'
GARBAGE ROOM 910
VEST. 912
EAST CORRIDOR 909
FA (C) 3840
RCE6
PS (C) 3977
FA (C) 3842
'F4'
'F4A'
STAIR 'J' J-9
ELEV. NO.3 F.F.E.
ELEV. NO.4
EAST ELEVATOR LOBBY 908
FLUE 3841
RCE5
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 221 FOR TYPICAL
16 1E 921
PS (R) 3986
8 IJ 911
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 711 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 220 FOR TYPICAL
15 1K 920
EAST CORRIDOR 907
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 712 FOR TYPICAL
9 1C+D1 912
RCE4
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 219 FOR TYPICAL
14 1L+D1 919
10 1M 913
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 713FOR TYPICAL
ELEC. CL. 906
6 E5-01
FA (C) 3859
RCE3
'DL8'
'DL12'
'DL20'
'DL21'
'DL22A'
'DL22B'
ELEV. NO.1 F.F.E.
ELEV. NO.2
WEST ELEVATOR LOBBY 901
STAIR 'H' H-9
RCW5
WEST CORRIDOR 902
GARBAGE ROOM 903
ARTSCAPE WEST CORRIDOR 916
UNLESS OTHERWISE NOTED SEE DRAWING E2-02A SUITE 203 FOR TYPICAL
3 1B3 903
FA (A) 3848
FA (C) 3847
FLUE (A) 3849
ELEC. CL. 904
4 E5-01
RCW4
6 S2c 908
UNLESS OTHERWISE NOTED SEE DRAWING E2-05A SUITE 409 FOR TYPICAL
7 S4 910
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 710 FOR TYPICAL
ARTSCAPE ELEVATOR LOBBY 917
2 1B2 902
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
5 1T1 907
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 707 FOR TYPICAL
ELEC. CL. 905
3 E5-01
RCW3
ARTSCAPE WEST CORRIDOR 918
4 1N 906
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 706 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
1 1B1 901
STAIR 'G' G-9
RCW2
FOR CONTINUATION SEE SHEET E2-10B

NOTES:

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LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

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No	Issued For	Date
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1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 9 FLOOR PLAN
NORTH - ELECTRICAL

Project

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

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

N

Plot Date: 09/12/2015 3:25:59 PM File Path: C:\Users\administrator.MCW\Documents\8489D - Aquavista - MEP_Tao_L.rvt

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FOR CONTINUATION SEE SHEET E2-10A
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 203 FOR TYPICAL
1 1B1 901
1 1B+D 901
UNLESS OTHERWISE NOTED SEE DRAWING E2-08B SUITE 701 FOR TYPICAL
4 906
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 706 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08B SUITE 705 FOR TYPICAL
3 2E1 905
2 S7-1 903
UNLESS OTHERWISE NOTED SEE DRAWING E2-09B SUITE 803 FOR TYPICAL
STAIR 'G'
G-9
'F4A'
'F4'
'DL21'
'DL22A'
RCW1
RCW2
WHP
10 913
ELEC. CL.
906
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E5-01
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FA (C)
3859
RCE2
RCE3
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 713FOR TYPICAL
13 2M 918
UNLESS OTHERWISE NOTED SEE DRAWING E2-08B SUITE 718 FOR TYPICAL
STAIR 'Kx'
Kx-9
11 2G1 915
UNLESS OTHERWISE NOTED SEE DRAWING E2-09B SUITE 815 FOR TYPICAL
12 S8 916
UNLESS OTHERWISE NOTED SEE DRAWING E2-09B SUITE 816 FOR TYPICAL

NOTES:

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D. C. M. BELLAMY

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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 9 FLOOR PLAN SOUTH - ELECTRICAL

Project

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

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

N

Plot Date: 09/12/2015 3:26:04 PM File Path: C:\Users\administrator.MCW\Documents\8489D – Aquavista – MEP_Tao_L.rvt

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31 1G 1031
30 1A+D 1030
29 1CR 1029
28 1B 1028
27 1BR 1027
26 1C 1026
25 1F 1025
24 1D 1024
17 1Aa 1023
16 1Ua1 1022
15 1E 1021
14 1K 1020
13 S19 1019
11 2Q 1013
10 1C+Da 1012
9 1J 1011
8 S4 1010
7 S2b 1009
6 1P 1008
5 1Ta 1007
4 1N1 1006
33 1S 1033
34 1H+D 1034
35 1N+D 1035
36 1R 1036
UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE1027 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 223 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 222 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 221 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 220 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-05A SUITE 409 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 710 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 708 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 707 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 706 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 711 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 712 FOR TYPICAL
CORRIDOR NORMAL LIGHTING FED FROM PANEL '2P1RCLW' CORRIDOR EMERGENCY LIGHTING FED FROM '2EP1RCLW'
CORRIDOR NORMAL LIGHTING FED FROM PANEL '2P1RCLE' CORRIDOR EMERGENCY LIGHTING FED FROM '2ERRCLE'
NORTH CORRIDOR 1010
ELEC. CL. 1011
PS (A) 4816
GARBAGE CHUTE (A) 3872
ELEV. NO.1 F.F.E.
ELEV. NO.2
WEST ELEVATOR LOBBY 1001
STAIR 'H' H-10
WEST CORRIDOR 1002
GARBAGE ROOM 1003
FA (A) 3870
FA (C) 3869
FLUE (A) 3871
ELEC. CL. 1004
PS (C) 3981
FA (C) 3878
STAIR 'G' G-10
ELEC. CL. 1009
GARBAGE ROOM 1008
FA (C) 3862
PS (C) 3984
EX (R) 3865
FLUE (C) 3866
STAIR 'J' J-10
ELEV. NO.3 F.F.E.
ELEV. NO.4
EAST ELEVATOR LOBBY 1007
EAST CORRIDOR 1006
PS (R) 3970
ELEC. CL. 1005
STAIR 'Ky' Ky-10
5 E5-01
6 E5-01
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FOR CONTINUATION SEE SHEET E2-11B

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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 10 FLOOR PLAN
NORTH - ELECTRICAL

Project

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

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

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FOR CONTINUATION SEE SHEET E2-11A
UNLESS OTHERWISE NOTED SEE DRAWING E2-08A SUITE 706 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08B SUITE 701 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08B SUITE 705 FOR TYPICAL
UNLESS OTHERWISE NOTED SEE DRAWING E2-08B SUITE 803 FOR TYPICAL
STAIR 'G'
ELEC. CL.
FIRE PLACE
EXACT LOCATION TO BE CONFIRMED WITH ARCHITECTURAL DRAWING
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NOTES:

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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 10 FLOOR PLAN
SOUTH - ELECTRICAL

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

Scale: 1 : 50
Drawn by: Author
Checked by: Checker
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UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE 1032 FOR TYPICAL
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31 1Ga 1131
UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE 1030 FOR TYPICAL
30 1A+D 1130
UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE1027 FOR TYPICAL
29 1CRa 1129
UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE 1028 FOR TYPICAL
28 1B 1128
UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE 1027 FOR TYPICAL
27 1BR 1127
UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE 1026 FOR TYPICAL
26 1Ca 1126
UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE 1025 FOR TYPICAL
25 1F 1125
UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE 1024 FOR TYPICAL
24 1Da 1124
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 223 FOR TYPICAL
9 1Aa 1123
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 222 FOR TYPICAL
8 1Ub 1122
CORRIDOR NORMAL LIGHTING FED FROM PANEL '2P1RCLW' CORRIDOR EMERGENCY LIGHTING FED FROM '2EP1RCLW'
CORRIDOR NORMAL LIGHTING FED FROM PANEL '2P1RCLE' CORRIDOR EMERGENCY LIGHTING FED FROM '2ERRCLE'
33 1Sa 1133
PS (A) 4828
GARBAGE CHUTE (A) 3894
ELEC. CL. 1108
GARBAGE ROOM 1107
FA (C) 3884
NORTH CORRIDOR 1109
WEST ELEVATOR LOBBY 1101
STAIR 'H'
ELEV. NO.1
ELEV. NO.2
GARBAGE ROOM 1103
FA (A) 3850
FA (C) 3861
FLUE (A) 3860
ELEC. CL. 1104
WEST CORRIDOR 1102
3 S2bT 1109
4 S2bT 1110
2 S11T 1107
35 S9 1136
5 S12 1113
7 S12 1116
PS (C) 3885
STAIR 'J'
EAST ELEVATOR LOBBY 1106
ELEV. NO.3
ELEV. NO.4
FLUE (C)
FLUE (B) 4827
FA (B) 3902
EAST CORRIDOR 1105
STAIR 'G'
STAIR 'K'
WHP
'DL21'
'DL22A'
RCW7
RCW8
Sim
FOR CONTINUATION SEE SHEET E2-12B

NOTES:

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2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).

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8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
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2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

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

FOR CONTINUATION SEE SHEET E2-12A
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pN
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pP
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pR
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EAST CORRIDOR
1105
FA (C)
3902
STAIR 'Ky'
Ky-11
FCC-3
FCC-5
RCE3
1
S15T
1103
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S16T
1116
WHP

NOTES:

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

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LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 11 FLOOR PLAN
SOUTH - ELECTRICAL

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

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

N

Plot Date: 09/12/2015 3:26:36 PM File Path: C:\Users\administrator.MCW\Documents\8489D - Aquavista - MEP_Tao_L.rvt

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31A
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80
12 1Lb PH32
UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE 1032 FOR TYPICAL
11 PH31 PH31
13 1Sb PH33
UNLESS OTHERWISE NOTED SEE DRAWING E2-12A SUITE 1133 FOR TYPICAL
14 S9-1 PH35
UNLESS OTHERWISE NOTED SEE DRAWING E2-12A SUITE 1135 FOR TYPICAL
10 1D1 PH24
UNLESS OTHERWISE NOTED SEE DRAWING E2-11A SUITE 1024 FOR TYPICAL
9 1A PH23
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 223 FOR TYPICAL
8 1Uc 22
UNLESS OTHERWISE NOTED SEE DRAWING E2-03A SUITE 22 FOR TYPICAL
3
4 PH10
2 PH7 PH07
5 PH12 PH12
7 PH18 PH18
WEST CORRIDOR 1201
WEST CORRIDOR 1203
WEST ELEVATOR LOBBY 1202
ELEV. NO.1 F.F.E.
ELEV. NO.2
STAIR 'H' H-12
STAIR 'G' G-12
GARBAGE ROOM
FA (C) 3913
FA (A) 3914
FLUE (A) 3905
ELEC. CL. 1205
ELEC. CL. 1210
EAST CORRIDOR 1208
EAST CORRIDOR 1206
EAST ELEVATOR LOBBY 1207
ELEV. NO.3 F.F.E.
ELEV. NO.4
STAIR 'V' V-12
STAIR 'J' J-12
STAIR 'K' K-12
PS (C)
FA (C) 3950
Sim
TO LIGHT ABOVE
WHP
FCC-3
RCW6
JB
'DL21'
'DL22A'
'DL12'
'DL8'
'S2'
'S5'
'S6'
'S9'
FOR CONTINUATION SEE SHEET E2-13B

NOTES:

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2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. ROUGH-IN SERVICES FOR DISPOSAL SYSTEM WIRING - REFER TO GARBAGE CHUTE RISER. (DWG. E4-02).
5. FOR ELEVATOR MOTOR DRIVER, FUSIBLE DISCONNECT SWITCH 208V/1P-30/20AF. EXACT LOCATION TO BE COORDINATED ON SITE.
6. FOR ELEVATOR LIGHTING/POWER, FUSIBLE DISCONNECT SWITCH 120V/1P-30/15AF. EXACT LOCATION TO BE COORDINATED ON SITE.

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8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
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1	WT 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

N

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

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FOR CONTINUATION SEE SHEET E2-13A
EAST CORRIDOR
FA (C)
STAIR 'Ky'
Ky-12
TO LIGHT ABOVE
1
PH3
PH03
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PH16
PH15
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NOTES:

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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 12 FLOOR PLAN SOUTH - ELECTRICAL

Project

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

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

N

Plot Date: 09/12/2015 3:26:49 PM File Path: C:\Users\administrator.MCW\Documents\8489D - Aquavista - MEP_Tao_L.rvt

RESIDENTIAL ARTSCAPE
RESIDENTIAL CONDO
ARTSCAPE & RETAIL COOLING TOWER
1301
COOLING TOWER
1320
PROVIDE 1-53mmC CONDUIT FOR IRRIGATION CONTROL SYSTEM
HEAT TRACED PATH
FOR CONTINUATION SEE SHEET E2-14B
RESIDENTIAL CONDO
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GENERATOR NOTES:

- G1 120V, 15A POWER CONNECTIONS FOR THE GENERATOR BATTERY & CHARGER AND 208V, 1PH FOR BLOCK HEATER. CO-ORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGHING-IN.
- G2 SUPERVISORY CONTACTS FOR GENERATOR MONITORING POINTS.
- G3 GROUND BUS INTERCONNECTED WITH #3/0 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC. REFER TO DRAWING E1-01/E3-XX AND SPECIFICATIONS FOR FURTHER DETAILS.
- G4 PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
- G5 144W, 12V D.C. STAND-BY BATTERY AND CHARGER UNIT #BU-1 C/W 2-12W HEADLAMPS OF QUARTZ HALOGEN TYPE.

ELEVATOR MACHINE ROOM NOTES:

- E1 PROVIDE DISCONNECT SWITCH FOR ELEVATOR MOTOR. C/W AUXILIARY CONTACT WITH WIRING TO THE CONTROLLER. REFER TO SINGLE DIAGRAM FOR FEEDER SIZE. FUSE TO BE PROVIDE AS PER ELEVATOR SHOP.
- E2 DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
- E3 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATE TELEPHONE LINE TERMINATING AT THE PRIMARY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
- E4 CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. RECEPTACLE SHALL BE LOCATED NOT LESS THAN 750mm ABOVE THE FINISHED ROOF, AND PROTECTED FROM MECHANICAL DAMAGE.
5. AREA TO BE HEAT TRACED. PROVIDE 3 ZONE OF PYROTENAX CAT #SUB13 CABLES RATED AT 8000 WATTS EACH, 600V (377W/SQM). PROVIDE SNOW-MELTING CONTROLS AS PER SPECIFICATION C/W OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF FLOOR SLAB ABOVE AND SLAB SENSOR, CLEAR OF HEATED SPACE. PROVIDE 3-20A-DP GFI CIRCUITS FROM PANEL '?????'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
6. WEATHER PROOF JUNCTION BOX FOR IRRIGATION CONTROL SYSTEM. PROVIDE 1-27mmC CONDUITS TO IRRIGATION ROOM ON P2 LEVEL. EXACT LOCATION AND JUNCTION BOX SIZE TO BE COORDINATED WITH IRRIGATION SHOP DRAWING.
7. GROUND BUSS INTERCONNECTED WITH #3/0 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #3/0 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
8. PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
9. PROVIDE 1200mm(W) X 2440mm(H) X 19mm(D) PLYWOOD BACKBOARD. REFER TO SECURITY RISER E4-06 FOR CONDUITS DETAIL.
10. PROVIDE A 30A, 208V-1ø SURFACE MOUNTED WEATHERPROOF TWIST- LOCK TYPE RECEPTACLE FOR WINDOW WASHING, C/W STRAIN RELIEF EYEBOLT HUBBELL CAT# HBL2620SW (EEMAC L6-30R). PROVIDE ALSO A 120 VOLT DUPLEX RECEPTACLE. 1

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8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
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1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 13 FLOOR PLAN
NORTH - ELECTRICAL

Project

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

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

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FOR CONTINUATION SEE SHEET E2-14A
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STORAGE ROOM
1316
ERVA-F
UHA-08
HFCA-3
VEST.
1311
ELEV. MACH. ROOM
1310
ELEC. CL.
1312
ELEV #5
ELEV #6
ELEV #5 CAB LIGHTS & POWER
2ERRAP-2
2ERRAP-4
ELEV #6 CAB LIGHTS & POWER
2ERRAP-6 & 2ERRAP-8
ELEV #5 & #6 CONTROLLER
2ERRAP-10
ARTSCAPE ELEV. NO.5 F.F.E.
ARTSCAPE ELEV. NO.6
ACCR-02
ARTSCAPE ELEV. LOBBY
NORMAL LIGHITNG
'2RRAL-2'
EMERGENCY
'2ERRAL-2'
ARTSCAPE ELEVATOR LOBBY
1313
UNIVERSAL W/C
1315
HFCA-2
ARTSCAPE AMENITY AREA
NORMAL LIGHITNG
'2RRAL-2' '2RRAL-4' '2RRAL-6'
EMERGENCY
'2ERRAL-2' '2ERRAL-4'
ARTSCAPE AMENITY
1314
RESIDENTIAL CONDO
RESIDENTIAL ARTSCAPE
STAIR 'X'
X-12
STAIR 'Y'
Y-12
TO SWITCH BELOW
PH12
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PH14
PH15
PH16
PH17
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NOTES:

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D. C. M. BELLAMY

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AQUAVISTA
AT BAYSIDE TORONTO

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LEVEL 13 FLOOR PLAN
SOUTH - ELECTRICAL

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

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Drawn by
Author
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Checker
Project No.
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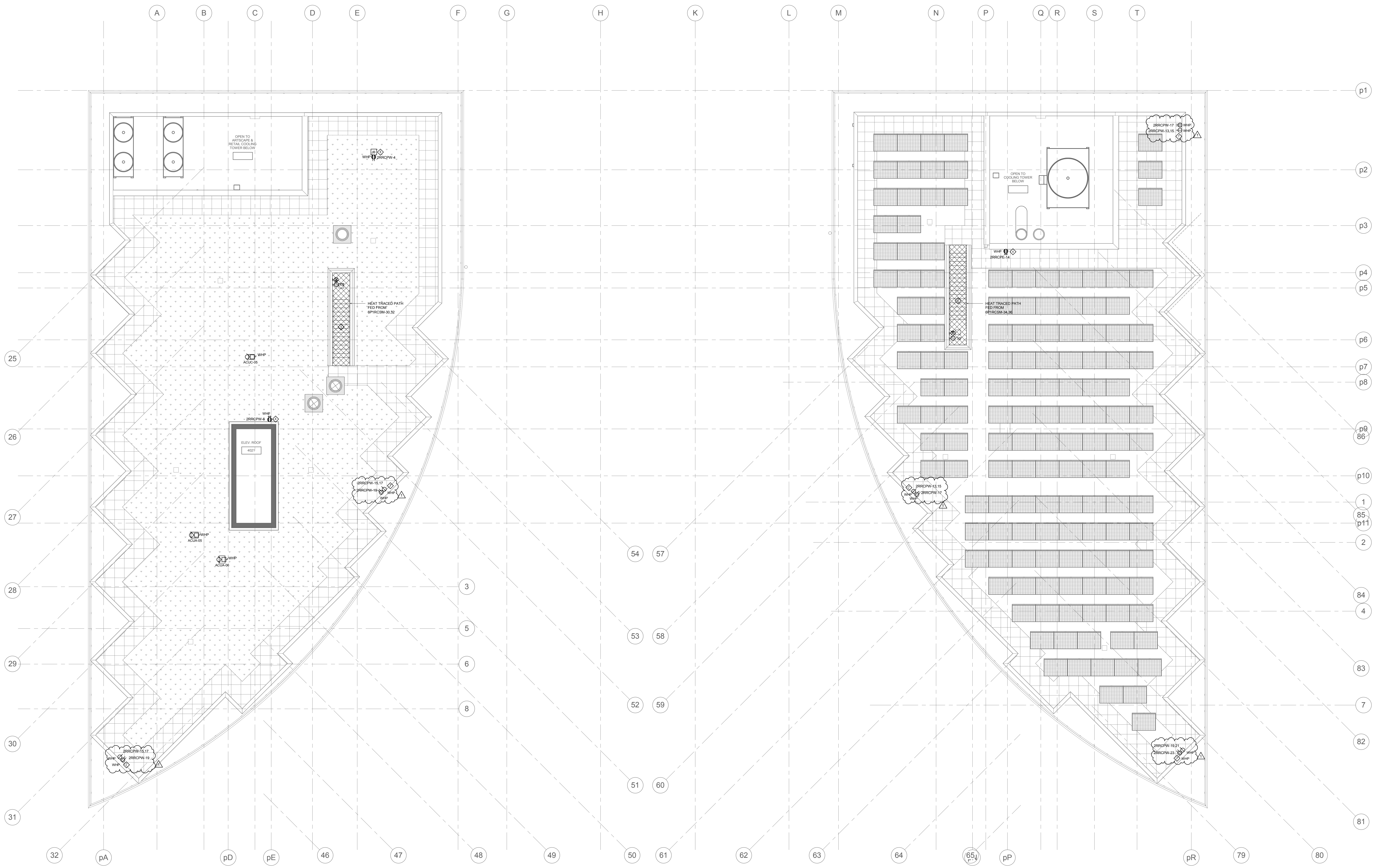
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OPEN TO ARTSCAPE & RETAIL COOLING TOWER BELOW
JB
6
WHP
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X5
HEAT TRACED PATH FED FROM 6P1RCSM-30,32
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WHP
2RRCPW-6
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ELEV. ROOF
4021
2RRCPW-15,17
2RRCPW-19
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OPEN TO COOLING TOWER BELOW
2RRCPW-17
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HEAT TRACED PATH FED FROM 6P1RCSM-34,36
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2RRCPW-17
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30
31
3
5
6
8
54
57
53
58
52
59
51
60
86
1
85
2
84
4
83
7
82
81
32
pA
pD
pE
46
47
48
49
50
61
62
63
64
65
pP
pR
79
80

NOTES:

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

◇4 RECEPTACLE SHALL BE LOCATED NOT LESS THAN 750mm ABOVE THE FINISHED ROOF, AND PROTECTED FROM MECHANICAL DAMAGE.

◇5 AREA TO BE HEAT TRACED. PROVIDE 1 ZONE OF PYROTENAX CAT #SUB13 CABLES RATED AT 8000 WATTS EACH, 600V (377W/SQM). PROVIDE SNOW-MELTING CONTROLS AS PER SPECIFICATION C/W OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF FLOOR SLAB ABOVE AND SLAB SENSOR, CLEAR OF HEATED SPACE. PROVIDE 1-20A-DP GFI CIRCUITS FROM PANEL 'P-6P1RCSM'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.

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

◇7 PROVIDE A 30A, 208V-1ø SURFACE MOUNTED WEATHERPROOF TWIST- LOCK TYPE RECEPTACLE FOR WINDOW WASHING, C/W STRAIN RELIEF EYEBOLT HUBBELL CAT# HBL2620SW (EEMAC L6-30R). PROVIDE ALSO A 120 VOLT DUPLEX RECEPTACLE. △1

Contractor Must Check And Verify All Dimensions On The Job.

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Date: 09/23/15

8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10

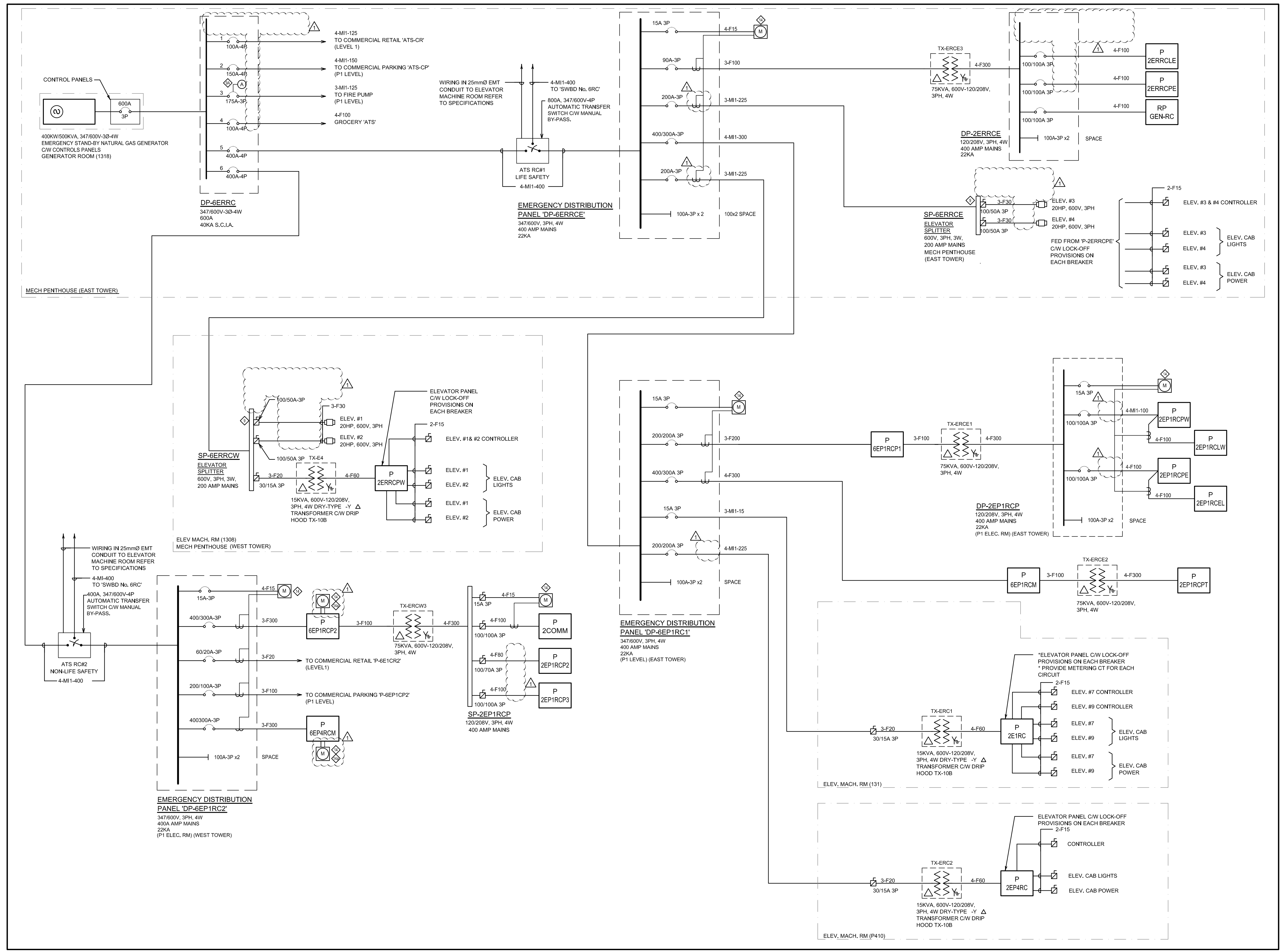
No	Issued For	Date
3		
2		
1	ISSUED FOR TENDER	2015-10-30

AQUAVISTA
AT BAYSIDE TORONTO

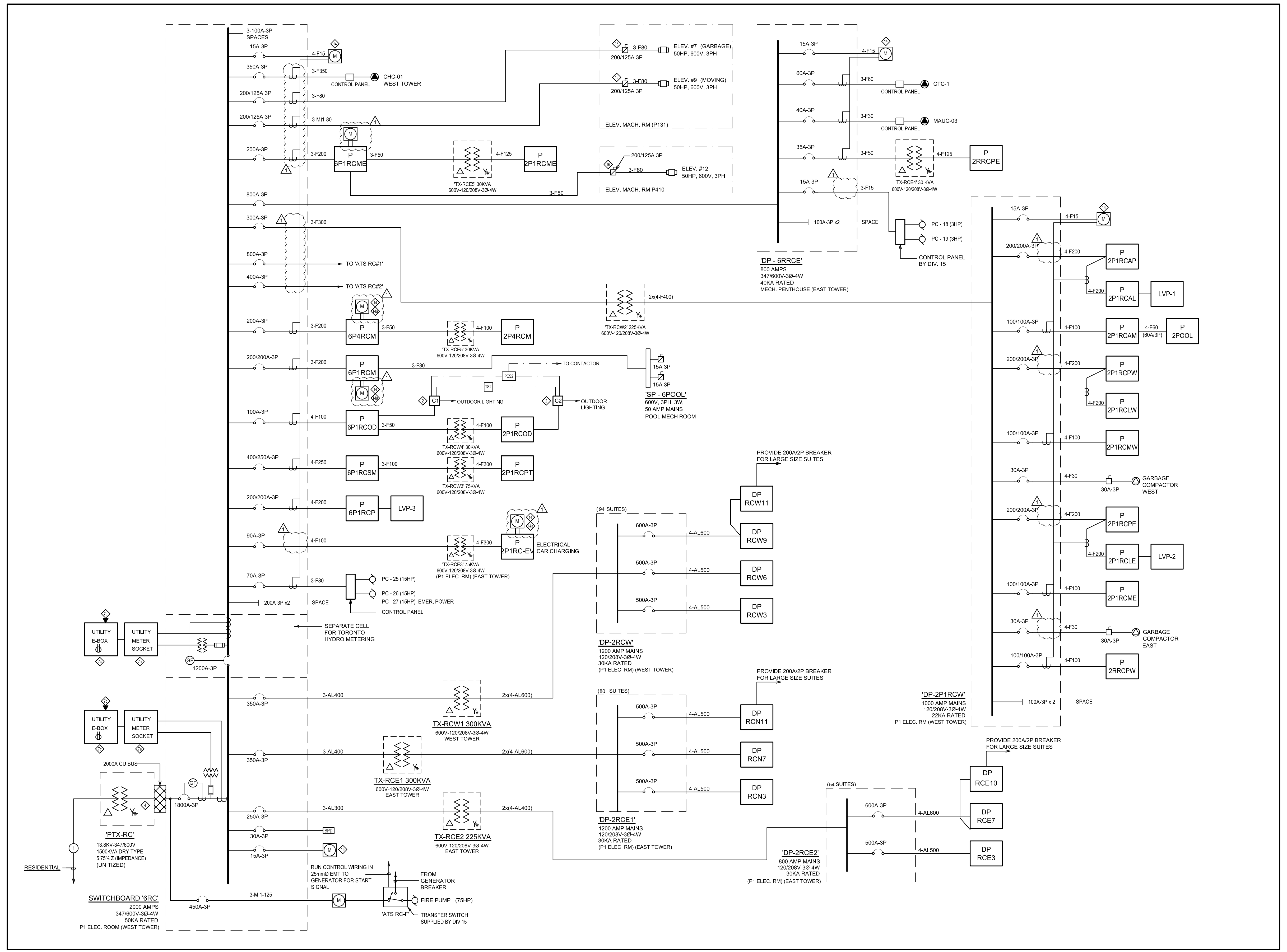
Drawing Title
LEVEL 14 FLOOR PLAN - ELECTRICAL

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

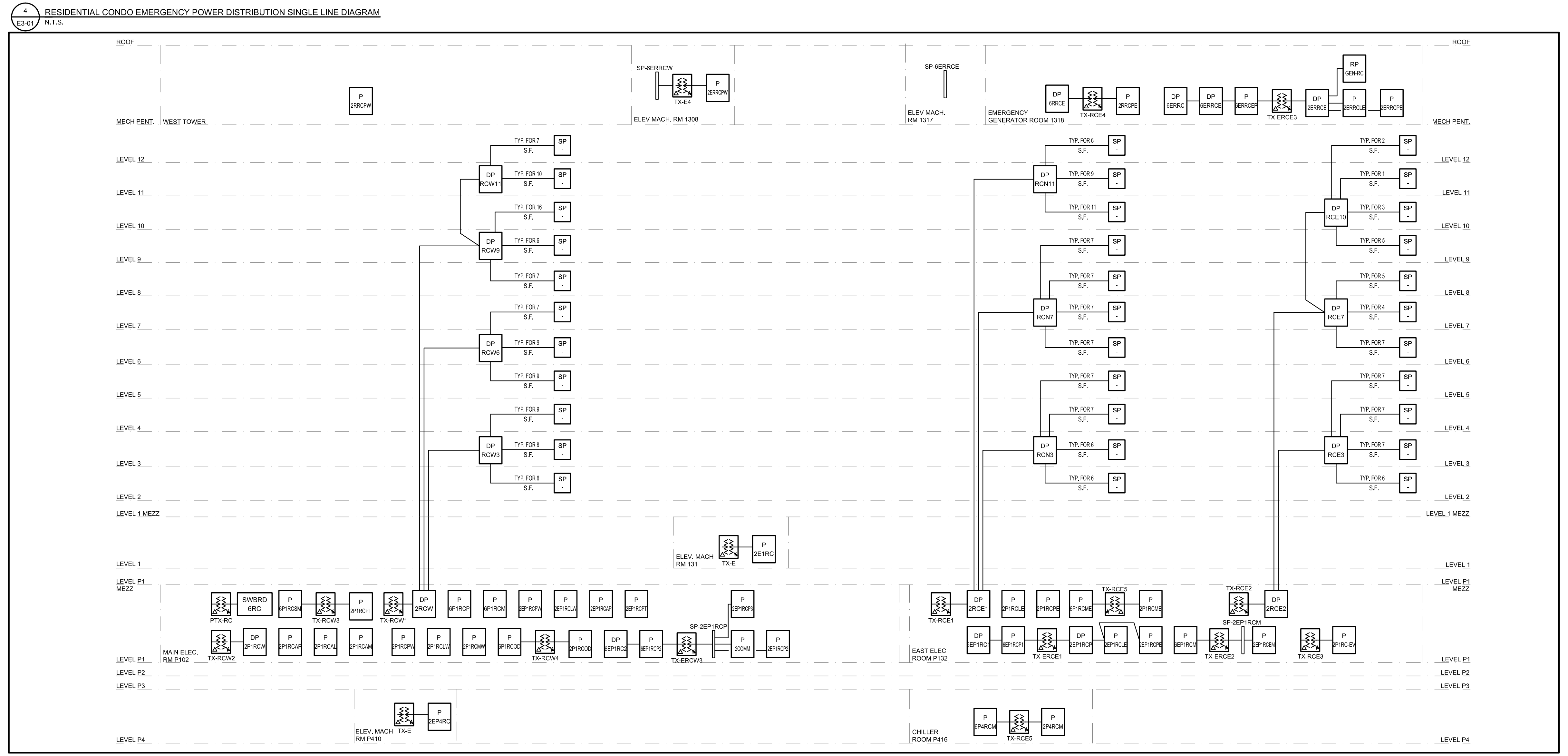
Scale: 1 : 75
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 09/23/15
N
Drawing No.
E2-15


DP-6ERRCE
EMERGENCY DISTRIBUTION PANEL 'DP-6ERRCE'
SP-6ERRCE ELEVATOR SPLITTER
DP-2ERRCE
ATS RC#1 LIFE SAFETY
MECH PENTHOUSE (EAST TOWER)
SP-6ERRCW ELEVATOR SPLITTER
ELEV. MACH RM (1308) MECH PENTHOUSE (WEST TOWER)
ATS RC#2 NON-LIFE SAFETY
EMERGENCY DISTRIBUTION PANEL 'DP-6EP1RC2'
SP-2EP1RCP
EMERGENCY DISTRIBUTION PANEL 'DP-6EP1RC1'
DP-2EP1RCP
ELEV. MACH. RM (131)
ELEV. MACH. RM (P410)

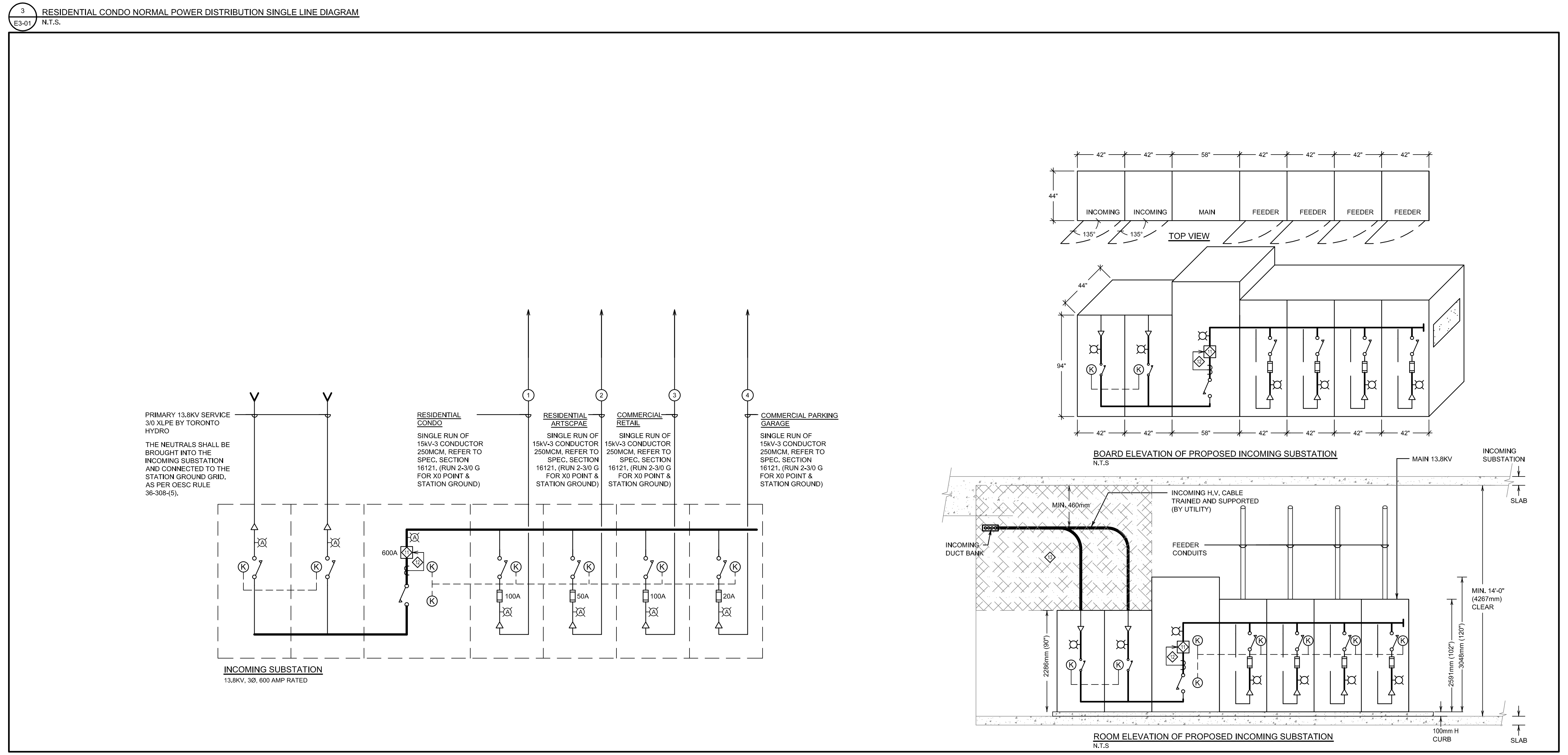
4 E3-01 RESIDENTIAL CONDO EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
N.T.S.


'DP - 6RRCE'
'SP - 6POOL'
'DP-2RCW'
'DP-2RCE1'
'DP-2RCE2'
'DP-2P1RCW'
TX-RCW1 300KVA
TX-RCE1 300KVA
TX-RCE2 225KVA
'PTX-RC'
SWITCHBOARD '6RC'
2000 AMPS 347/600V-3Ø-4W 50KA RATED
P1 ELEC. ROOM (WEST TOWER)
RESIDENTIAL
FIRE PUMP (75HP)
'ATS-FP'

3 E3-01 RESIDENTIAL CONDO NORMAL POWER DISTRIBUTION SINGLE LINE DIAGRAM
N.T.S.


ROOF
MECH PENT.
WEST TOWER
SP-6ERRCW
TX-E4
ELEV MACH. RM 1308
SP-6ERRCE
ELEV MACH. RM 1317
EMERGENCY GENERATOR ROOM 1318
TX-RCE4
TX-ERCE3
LEVEL 12
LEVEL 11
LEVEL 10
LEVEL 9
LEVEL 8
LEVEL 7
LEVEL 6
LEVEL 5
LEVEL 4
LEVEL 3
LEVEL 2
LEVEL 1 MEZZ
LEVEL 1
LEVEL P1 MEZZ
LEVEL P1
LEVEL P2
LEVEL P3
LEVEL P4
MAIN ELEC. RM P102
EAST ELEC ROOM P132
ELEV. MACH RM P410
CHILLER ROOM P416

5 E3-01 RESIDENTIAL CONDO POWER DISTRIBUTION RISER DIAGRAM
N.T.S.


PRIMARY 13.8KV SERVICE 3/0 XLPE BY TORONTO HYDRO
RESIDENTIAL CONDO
RESIDENTIAL ARTSCAPE
COMMERCIAL RETAIL
COMMERCIAL PARKING GARAGE
INCOMING SUBSTATION
13.8KV, 3Ø, 600 AMP RATED
TOP VIEW
INCOMING
MAIN
FEEDER
BOARD ELEVATION OF PROPOSED INCOMING SUBSTATION
ROOM ELEVATION OF PROPOSED INCOMING SUBSTATION
N.T.S.

2 E3-01 INCOMING SUBSTATION RISER DIAGRAM
N.T.S.

600V, 2 HOUR FIRE RATED MI CABLE SCHEDULE

AS MANUFACTURED BY PYROTENAX

PRE-FIX = NO. OF CONDUCTORS		MAX BREAKER SIZE	REF	AMP	SIZE		MAX BREAKER SIZE	REF	AMP	SIZE
	SINGLE CONDUCTOR	15	MI1-15	15	14	THREE CONDUCTORS	15	MI3-15	15	14/3
		20	MI1-20	20	12		20	MI3-20	20	12/3
		30	MI1-30	30	10		30	MI3-30	30	10/3
		70	MI1-70	70	8		50	MI3-50	50	8/3
		90	MI1-90	95	6		60	MI3-60	65	6/3
		125	MI1-125	125	4		80	MI3-80	85	4/3
		150	MI1-150	170	2		100	MI3-100	100	3/3
		175	MI1-175	195	1					
		225	MI1-225	230	1/0					
		250	MI1-250	265	2/0					
		300	MI1-300	310	3/0					
		350	MI1-350	360	4/0					
		400	MI1-400	405	250					
		500	MI1-500	505	350					
		600	MI1-600	620	500					
	TWO CONDUCTORS	15	MI2-15	15	14/2	FOUR CONDUCTORS *	15	MI4-15	15	14/4
		20	MI2-20	20	12/2		20	MI4-20	20	12/4
		30	MI2-30	30	10/2		30	MI4-30	30	10/4
		50	MI2-50	50	8/2		50	MI4-50	50	8/4
		60	MI2-60	65	6/2		60	MI4-60	65	6/4
		80	MI2-80	85	4/2					
		100	MI2-100	100	3/2					
		110	MI2-110	115	2/2					
		125	MI2-125	130	1/2					

NOTE:
*- RATING IS BASED ON 3 CONDUCTORS SUPPLYING CURRENT TO THE LOAD;OTHER CONDUCTOR USED AS NEUTRAL OR FOR CONTROL SIGNAL. DERATING FACTORS SHALL APPLY IF 4TH CONDUCTOR IS USED AS CURRENT CARRYING CONDUCTORS.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - NUAL

PRE-FIX = NO. OF CONDUCTORS	MAX BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP (8) @90°C	CONDUIT SIZE			BONDING CONDUCTOR
						4C	3C	2C	
	90	AL90	#2	90	76	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
	100	AL100R	#2	90			35 (1 1/4")		#4
	100	AL100	#1	100	92	53 (2")	41 (1 1/2")	35 (1 1/4")	#4
	125	AL125	#2/0	135	120	53 (2")	53 (2")	-	#4
	150	AL150	#3/0	155	140	63 (2 1/2")	53 (2")	-	#4
	200	AL200R	#4/0	180			53 (2")		#2
	200	AL200	250MCM	205	184	78 (3")	63 (2 1/2")	-	#2
	225	AL225	300MCM	230	208	78 (3")	78 (3")	-	#2
	250	AL250	350MCM	250	224	78 (3")	78 (3")	-	#2
	300	AL300	500MCM MC NUAL	310	280	-	-	-	#1
	400	AL400	2 RUNS OF 250MCM MC NUAL	410	368	-	-	-	#2
	500	AL500	2 RUNS OF 350MCM MC NUAL	500	448	-	-	-	#2
	600	AL600	2 RUNS OF 500MCM MC NUAL	620	560	-	-	-	#1
	800	AL800	3 RUNS OF 400MCM MC NUAL	810	732	-	-	-	#2

NOTE:
1. ALL CABLE SHALL BE NUAL 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 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 AL100R AND AL200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRAL/S. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.
10. MC DENOTES MULTI CONDUCTOR.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - COPPER

PRE-FIX = NO. OF CONDUCTORS	MAX BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP (8) @90°C	CONDUIT SIZE			BONDING CONDUCTOR
						4C	3C	2C	
	15	F15	#12	25	24	21 (3/4")	21 (3/4")	21 (3/4")	#12
	20	F20	#12	25	24	21 (3/4")	21 (3/4")	21 (3/4")	#12
	30	F30	#10	35	32	27 (1")	21 (3/4")	21 (3/4")	#10
	50	F50	#8	50	44	27 (1")	27 (1")	21 (3/4")	#10
	60	F60	#6	65	60	35 (1 1/4")	35 (1 1/4")	27 (1")	#8
	80	F80	#4	85	76	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#8
	100	F100	#3	100	92	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
	125	F125R	#2	115	-	-	41 (2")	-	#6
	125	F125	#1	130	116	53 (2")	53 (2")	-	#6
	150	F150	#1/0	150	136	53 (2")	53 (2")	-	#6
	200	F200R	#2/0	175	-	-	63 (2 1/2")	-	#6
	200	F200	#3/0	200	180	78 (3")	63 (2 1/2")	-	#4
	225	F225	#4/0	230	208	78 (3")	63 (2 1/2")	-	#4
	250	F250	250MCM	255	232	78 (3")	78 (3")	-	#4
	300	F300	350MCM	310	280	103 (4")	91 (3 1/2")	-	#3
	350	F350	500MCM	380	344	103 (4")	103 (4")	-	#2
	400	F400	600MCM	420	380	103 (4")	103 (4")	-	#2

NOTE:
1. ALL CABLE SHALL BE 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 400A.
5. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #1/0.
6. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER OESC OR IEEE 835.
7. FEEDER TYPE F125R AND F200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRAL/S. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.

NOTES:

◇1 N/A

◇2 20A MULTI-POLE LIGHTING CONTACTOR FOR EXTERIOR LIGHTING, 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 METERING SOCKET AND E-BOX:

7a) METER SOCKET: MUST BE TRANSFORMER RATED. NO AUTOMATIC BYPASS. PROVISION FOR A 10 POLE TEST PANEL, LOCKABLE COVER, TO BE GROUND EXTERNALLY BY A #6Cu GROUND, 1.5m (5'-0") TO CENTER OF OPENING.

7b) METER CONDUIT: 41mm(1 1/2") CONDUIT, NO LB's PERMITTED UNLESS APPROVED BY DISTRICT METERING CREW LEADER. CONTINUOUS FROM METER INSTRUMENT COMPARTMENT TO METER SOCKET, MAXIMUM OF THREE 90 DEGREE BENDS. MAXIMUM CONDUIT LENGTH IS 30m (100ft).

7c) E-BOX: A 300X300X100mm (12"X12"X4") E-BOX IS TO BE MOUNTED DIRECTLY ADJACENT (50mm 2") TO THE METER SOCKET. THE E-BOX WILL BE CONNECT TO THE SOCKET WITH A 16mm(1/2") CONDUIT. A 120V DUPLEX RECEPTACLE WILL BE LOCATED IN THIS BOX. IF POSSIBLE THE 120V SUPPLY SHOULD COME FROM A UPS. THE E-BOX MUST BE LOCKABLE.

7d) PHONE CONDUIT: 16mm (1/2") CONDUIT, BUSHINGS AT BOTH ENDS, WITH PULL STRING, MUST EXTEND FROM JUST ADJACENT TO METER SOCKET TO WHERE THE PHONE TRUNK LINES WILL BE TERMINATED IN THE MAIN PHONE ROOM.

8. COPPER CABLE WITH EQUIVALENT CURRENT RATING WITH FIRE RATED ENCLOSURE OR BURIED IN CONCRETE AS PER OBC ARE ALLOWED TO USE IN LIEU OF MICC CABLE.

◇9 IN THE EMERGENCY CONDITION, ONE ELEVATOR SHALL WORK AT A TIME ALONG WITH FIRE FIGHTER'S ELEVATOR.

◇9A INTERLOCK ATS RC #2, COMMERCIAL PARKING ATS-CP & RETAIL ATS-CR WITH FIRE PUMP ATS. IF THE FIRE PUMP OPERATION IS REQUIRED, SWITCH OFF THE ATS RC#2, ATS-CP & ATS-CR.

◇10 N/A

◇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.

◇14 METERING EQUIPMENT FOR LEED PROGRESS SUPPLIED BY PROVIDENT, INSTALLED BY ELECTRICAL CONTRACTOR

◇14a REFER TO DRAWING E5-03 METER SCHEDULES FOR QUANTITY OF CT. △1

◇15 HYDRO METERS SUPPLIED BY TORONTO HYDRO, INSTALLED BY ELECTRICAL CONTRACTOR.

◇16 AUXILIARY CONTACT SHALL BE PROVIDED IN THE DISCONNECT SWITCH FOR BATTERY LOWERING SIGNAL WHEN POWER FAILS.

ELECTRICAL PANEL AND CIRCUIT DESIGNATION

1. 2EP1RCPW-3

'3' - DENOTES CIRCUIT NUMBER
'W' - DENOTES WEST TOWER OR EAST TOWER
'P' - DENOTES POWER AND/OR LIGHTING PANEL
'RC' - DENOTES RESIDENTIAL CONDO
'P1' - DENOTES LOCATION OF PANEL (P1 LEVEL)
'E' - DENOTES EMERGENCY PANEL
'2' - DENOTES 120/208V OR
'6' - DENOTES 347/600V

2. ADDITIONAL DESIGNATIONS

LAST LETTER 'P' OF THE PANEL DESIGNATION CAN BE REPLACED WITH FOLLOWING LETTERS FOR DIFFERENT TYPE OF PANELS.

OD - OUTDOOR LIGHTING
AL - AMENITY LIGHTING
AP - AMENITY POWER
AM - AMENITY MECHANICAL POWER
PT - PIPE TRACING
SM - SNOW MELTING
M - MECHANICAL POWER

'RC'' OF THE PANEL DESIGNATION CAN BE REPLACED WITH THE FOLLOWING DESIGNATIONS

CP - COMMERCIAL PARKING GARAGE
CR - COMMERCIAL RETAIL
RA - RESIDENTIAL ARTSCAPE

3. IF THERE ARE MORE THAN ONE PANEL ON SAME FLOOR WITH SAME DESIGNATION, THEY ARE DIFFERENTIATED BY ADDING 1, 2, 3, E(EAST), W(WEST),ETC. AFTER THE LAST LETTER OF THE PANEL DESIGNATION.

1 E3-01 FEEDER SCHEDULES AND NOTES
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Date: 03/09/15

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10

No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	ISSUED FOR BUILDING PERMIT	2015-06-12
1	WT REVIEW	2015-05-01

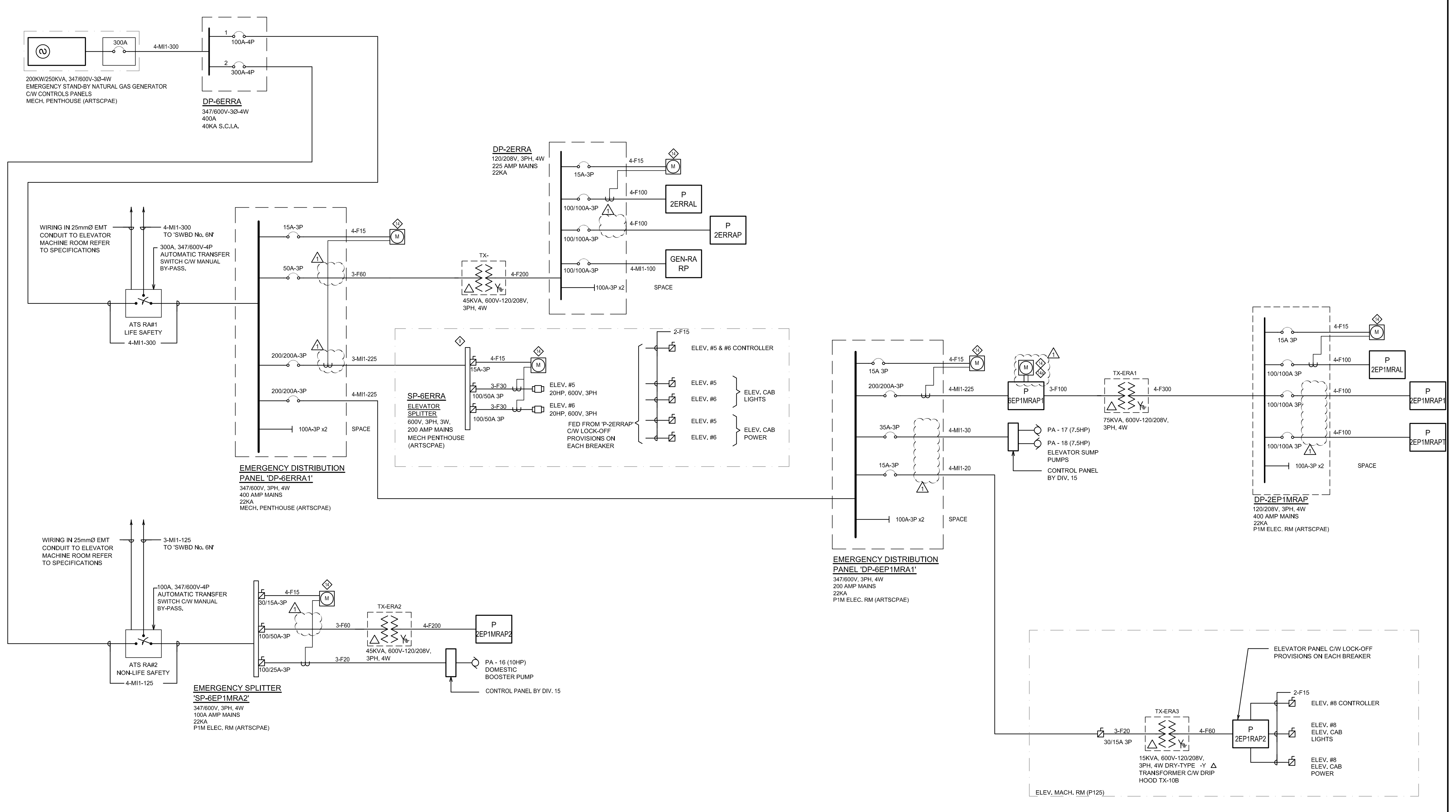
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO -
SINGLE LINE
DIAGRAM

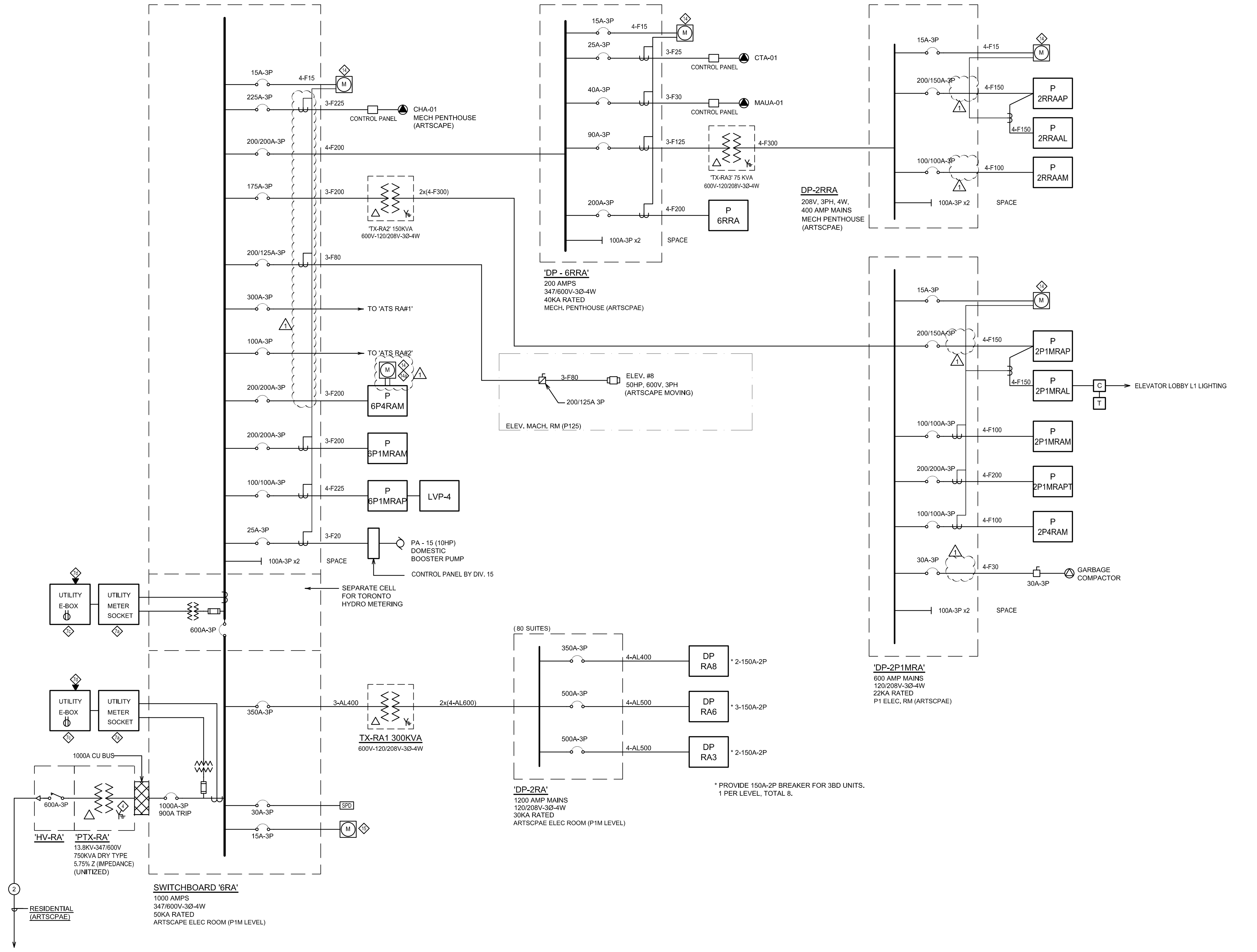
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: N.T.S
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 03/09/15
Drawing No.: E3-01-RC

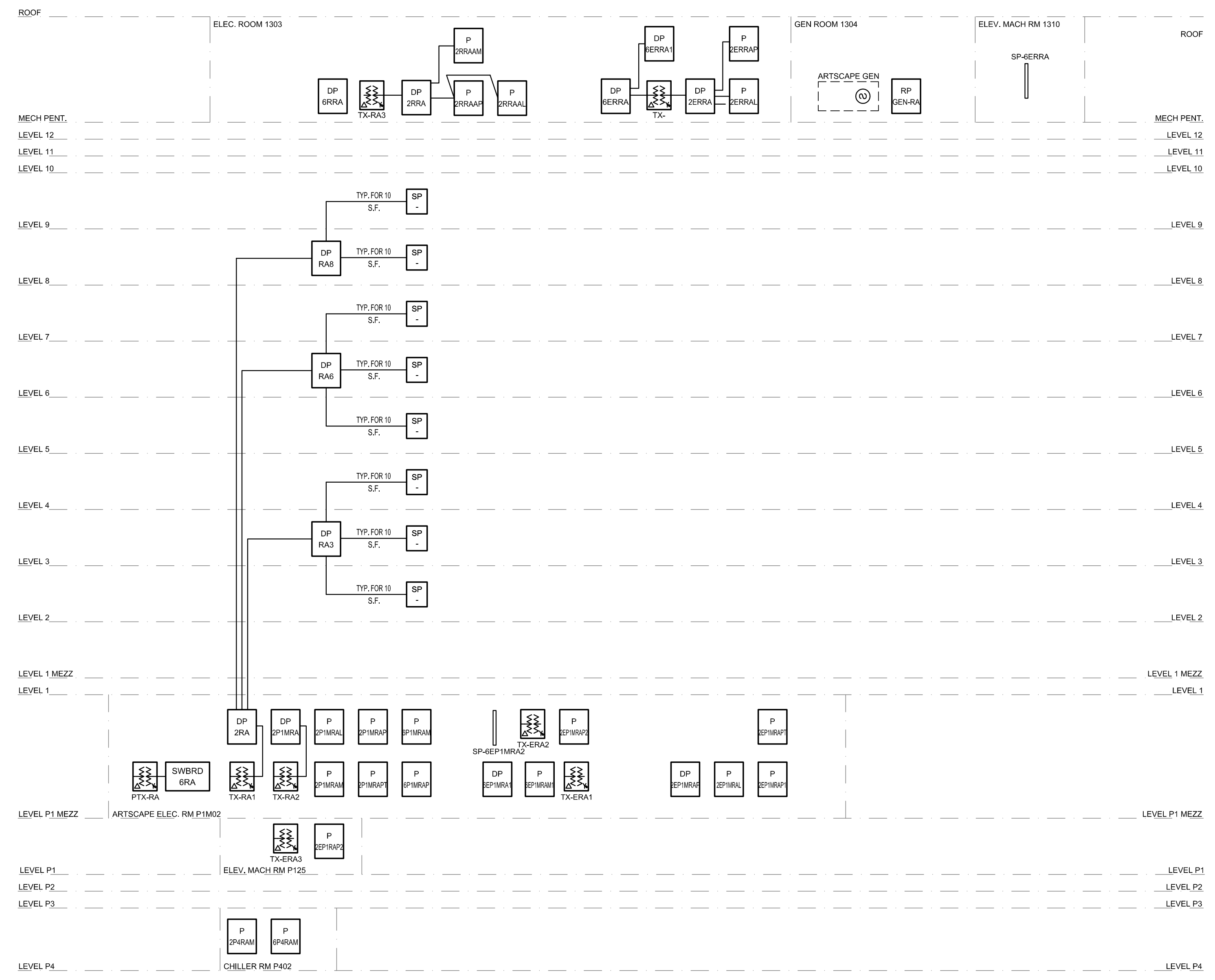
Plot Date: 13/04/2015 2:14:02 PM File Path:


200KW/250KVA, 347/600V-3Ø-4W
EMERGENCY STAND-BY NATURAL GAS GENERATOR
C/W CONTROLS PANELS
MECH. PENTHOUSE (ARTSCPAE)
300A
4-MI1-300
100A-4P
300A-4P
DP-6ERRA
347/600V-3Ø-4W
400A
40KA S.C.I.A.
WIRING IN 25mmØ EMT CONDUIT TO ELEVATOR MACHINE ROOM REFER TO SPECIFICATIONS
4-MI1-300 TO 'SWBD No. 6N'
300A, 347/600V-4P AUTOMATIC TRANSFER SWITCH C/W MANUAL BY-PASS.
ATS RA#1
LIFE SAFETY
EMERGENCY DISTRIBUTION PANEL 'DP-6ERRA1'
347/600V, 3PH, 4W
400 AMP MAINS
22KA
MECH. PENTHOUSE (ARTSCPAE)
15A-3P
50A-3P
200/200A-3P
100A-3P x2
SPACE
4-F15
3-F60
3-MI1-225
4-MI1-225
TX-
45KVA, 600V-120/208V, 3PH, 4W
4-F200
DP-2ERRA
120/208V, 3PH, 4W
225 AMP MAINS
22KA
100/100A-3P
4-F100
P 2ERRAL
P 2ERRAP
GEN-RA RP
4-MI1-100
SP-6ERRA
ELEVATOR SPLITTER
600V, 3PH, 3W,
200 AMP MAINS
MECH PENTHOUSE (ARTSCPAE)
100/50A 3P
3-F30
ELEV. #5 20HP, 600V, 3PH
ELEV. #6 20HP, 600V, 3PH
FED FROM 'P-2ERRAP' C/W LOCK-OFF PROVISIONS ON EACH BREAKER
2-F15
ELEV. #5 & #6 CONTROLLER
ELEV. CAB LIGHTS
ELEV. CAB POWER
WIRING IN 25mmØ EMT CONDUIT TO ELEVATOR MACHINE ROOM REFER TO SPECIFICATIONS
3-MI1-125 TO 'SWBD No. 6N'
100A, 347/600V-4P AUTOMATIC TRANSFER SWITCH C/W MANUAL BY-PASS.
ATS RA#2
NON-LIFE SAFETY
4-MI1-125
EMERGENCY SPLITTER 'SP-6EP1MRA2'
347/600V, 3PH, 4W
100A AMP MAINS
22KA
P1M ELEC. RM (ARTSCPAE)
30/15A-3P
100/50A-3P
100/25A-3P
3-F20
TX-ERA2
P 2EP1MRAP2
PA - 16 (10HP) DOMESTIC BOOSTER PUMP
CONTROL PANEL BY DIV. 15
EMERGENCY DISTRIBUTION PANEL 'DP-6EP1MRA1'
347/600V, 3PH, 4W
200 AMP MAINS
22KA
P1M ELEC. RM (ARTSCPAE)
15A 3P
35A-3P
4-MI1-30
4-MI1-20
P 6EP1MRAP1
3-F100
PA - 17 (7.5HP)
PA - 18 (7.5HP)
ELEVATOR SUMP PUMPS
TX-ERA1
75KVA, 600V-120/208V, 3PH, 4W
4-F300
DP-2EP1MRAP
120/208V, 3PH, 4W
400 AMP MAINS
22KA
P1M ELEC. RM (ARTSCPAE)
100/100A 3P
P 2EP1MRAL
P 2EP1MRAP1
P 2EP1MRAPT
ELEVATOR PANEL C/W LOCK-OFF PROVISIONS ON EACH BREAKER
TX-ERA3
15KVA, 600V-120/208V, 3PH, 4W DRY-TYPE -Y Δ TRANSFORMER C/W DRIP HOOD TX-10B
4-F60
P 2EP1RAP2
ELEV. #8 CONTROLLER
ELEV. #8 ELEV. CAB LIGHTS
ELEV. #8 ELEV. CAB POWER
ELEV. MACH. RM (P125)

3 / E3-02 RESIDENTIAL ARTSCPAE EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
N.T.S.


15A-3P
225A-3P
200/200A-3P
175A-3P
200/125A-3P
300A-3P
100A-3P
100/100A-3P
25A-3P
4-F15
3-F225
CONTROL PANEL
CHA-01 MECH PENTHOUSE (ARTSCAPE)
4-F200
3-F200
'TX-RA2' 150KVA 600V-120/208V-3Ø-4W
2x(4-F300)
3-F80
TO 'ATS RA#1'
TO 'ATS RA#2'
P 6P4RAM
P 6P1MRAM
P 6P1MRAP
LVP-4
4-F225
3-F20
PA - 15 (10HP) DOMESTIC BOOSTER PUMP
CONTROL PANEL BY DIV. 15
100A-3P x2
SPACE
SEPARATE CELL FOR TORONTO HYDRO METERING
UTILITY E-BOX
UTILITY METER SOCKET
600A-3P
350A-3P
3-AL400
TX-RA1 300KVA 600V-120/208V-3Ø-4W
2x(4-AL600)
1000A CU BUS
'HV-RA'
'PTX-RA'
13.8KV-347/600V
750KVA DRY TYPE
5.75% Z (IMPEDANCE)
(UNITIZED)
1000A-3P 900A TRIP
30A-3P
SPD
RESIDENTIAL (ARTSCPAE)
SWITCHBOARD '6RA'
1000 AMPS
347/600V-3Ø-4W
50KA RATED
ARTSCAPE ELEC ROOM (P1M LEVEL)
'DP - 6RRA'
200 AMPS
347/600V-3Ø-4W
40KA RATED
MECH. PENTHOUSE (ARTSCPAE)
40A-3P
90A-3P
200A-3P
3-F25
3-F30
3-F125
CTA-01
MAUA-01
'TX-RA3' 75 KVA 600V-120/208V-3Ø-4W
4-F300
P 6RRA
DP-2RRA
208V, 3PH, 4W,
400 AMP MAINS
MECH PENTHOUSE (ARTSCPAE)
200/150A-3P
4-F150
P 2RRAAP
P 2RRAAL
P 2RRAAM
4-F100
ELEV. #8 50HP, 600V, 3PH (ARTSCAPE MOVING)
200/125A 3P
ELEV. MACH. RM (P125)
(80 SUITES)
500A-3P
4-AL400
4-AL500
DP RA8
DP RA6
DP RA3
* 2-150A-2P
* 3-150A-2P
* PROVIDE 150A-2P BREAKER FOR 3BD UNITS. 1 PER LEVEL, TOTAL 8.
'DP-2RA'
1200 AMP MAINS
120/208V-3Ø-4W
30KA RATED
ARTSCPAE ELEC ROOM (P1M LEVEL)
P 2P1MRAP
P 2P1MRAL
ELEVATOR LOBBY L1 LIGHTING
P 2P1MRAM
P 2P1MRAPT
P 2P4RAM
4-F30
GARBAGE COMPACTOR
'DP-2P1MRA'
600 AMP MAINS
120/208V-3Ø-4W
22KA RATED
P1 ELEC. RM (ARTSCPAE)

2 / E3-02 RESIDENTIAL ARTSCAPE NORMAL POWER DISTRIBUTION SINGLE LINE DIAGRAM
N.T.S.


ROOF
ELEC. ROOM 1303
GEN ROOM 1304
ELEV. MACH RM 1310
MECH PENT.
LEVEL 12
LEVEL 11
LEVEL 10
LEVEL 9
LEVEL 8
LEVEL 7
LEVEL 6
LEVEL 5
LEVEL 4
LEVEL 3
LEVEL 2
LEVEL 1 MEZZ
LEVEL 1
LEVEL P1 MEZZ
LEVEL P1
LEVEL P2
LEVEL P3
LEVEL P4
DP 6RRA
TX-RA3
DP 2RRA
P 2RRAAM
P 2RRAAP
P 2RRAAL
DP 6ERRA
DP 6ERRA1
TX-
DP 2ERRA
P 2ERRAP
P 2ERRAL
ARTSCAPE GEN
RP GEN-RA
SP-6ERRA
TYP. FOR 10 S.F.
SP -
DP RA8
DP RA6
DP RA3
DP 2RA
DP 2P1MRA
P 2P1MRAL
P 2P1MRAP
P 6P1MRAM
P 2P1MRAM
P 2P1MRAPT
P 6P1MRAP
SP-6EP1MRA2
TX-ERA2
P 2EP1MRAP2
P 2EP1MRAPT
PTX-RA
SWBRD 6RA
TX-RA1
TX-RA2
DP 6EP1MRA1
P 6EP1MRAM1
TX-ERA1
DP 2EP1MRAP
P 2EP1MRAL
P 2EP1MRAP1
ARTSCAPE ELEC. RM P1M02
TX-ERA3
P 2EP1RAP2
ELEV. MACH RM P125
P 2P4RAM
P 6P4RAM
CHILLER RM P402

4 / E3-02 RESIDENTIAL ARTSCAPE POWER DISTRIBUTION RISER DIAGRAM
N.T.S.

600V, 2 HOUR FIRE RATED MI CABLE SCHEDULE

AS MANUFACTURED BY PYROTENAX

PRE-FIX = NO. OF CONDUCTORS		MAX BREAKER SIZE	REF	AMP	SIZE		MAX BREAKER SIZE	REF	AMP	SIZE
	SINGLE CONDUCTOR	15	MI1-15	15	14	THREE CONDUCTORS	15	MI3-15	15	14/3
		20	MI1-20	20	12		20	MI3-20	20	12/3
		30	MI1-30	30	10		30	MI3-30	30	10/3
		70	MI1-70	70	8		50	MI3-50	50	8/3
		90	MI1-90	95	6		60	MI3-60	65	6/3
		125	MI1-125	125	4		80	MI3-80	85	4/3
		150	MI1-150	170	2		100	MI3-100	100	3/3
		175	MI1-175	195	1					
		225	MI1-225	230	1/0					
		250	MI1-250	265	2/0					
		300	MI1-300	310	3/0					
		350	MI1-350	360	4/0					
		400	MI1-400	405	250					
		500	MI1-500	505	350					
		600	MI1-600	620	500					
	TWO CONDUCTORS	15	MI2-15	15	14/2	* FOUR CONDUCTORS	15	MI4-15	15	14/4
		20	MI2-20	20	12/2		20	MI4-20	20	12/4
		30	MI2-30	30	10/2		30	MI4-30	30	10/4
		50	MI2-50	50	8/2		50	MI4-50	50	8/4
		60	MI2-60	65	6/2		60	MI4-60	65	6/4
		80	MI2-80	85	4/2					
		100	MI2-100	100	3/2					
		110	MI2-110	115	2/2					
		125	MI2-125	130	1/2					

NOTE:

*- RATING IS BASED ON 3 CONDUCTORS SUPPLYING CURRENT TO THE LOAD;OTHER CONDUCTOR USED AS NEUTRAL OR FOR CONTROL SIGNAL. DERATING FACTORS SHALL APPLY IF 4TH CONDUCTOR IS USED AS CURRENT CARRYING CONDUCTORS.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - NUAL

	MAX BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP (8) @90°C	CONDUIT SIZE			BONDING CONDUCTOR
						4C	3C	2C	
PRE-FIX = NO. OF CONDUCTORS	90	AL90	#2	90	76	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
	100	AL100R	#2	90			35 (1 1/4")		#4
	100	AL100	#1	100	92	53 (2")	41 (1 1/2")	35 (1 1/4")	#4
	125	AL125	#2/0	135	120	53 (2")	53 (2")	-	#4
	150	AL150	#3/0	155	140	63 (2 1/2")	53 (2")	-	#4
	200	AL200R	#4/0	180			53 (2")		#2
	200	AL200	250MCM	205	184	78 (3")	63 (2 1/2")	-	#2
	225	AL225	300MCM	230	208	78 (3")	78 (3")	-	#2
	250	AL250	350MCM	250	224	78 (3")	78 (3")	-	#2
	300	AL300	500MCM MC NUAL	310	280	-	-	-	#1
	400	AL400	2 RUNS OF 250MCM MC NUAL	410	368	-	-	-	#2
	500	AL500	2 RUNS OF 350MCM MC NUAL	500	448	-	-	-	#2
	600	AL600	2 RUNS OF 500MCM MC NUAL	620	560	-	-	-	#1
	800	AL800	3 RUNS OF 400MCM MC NUAL	810	732	-	-	-	#2

NOTE:

1. ALL CABLE SHALL BE NUAL 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 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 AL100R AND AL200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRAL/S. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.
10. MC DENOTES MULTI CONDUCTOR.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - COPPER

	MAX BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP (8) @90°C	CONDUIT SIZE			BONDING CONDUCTOR
						4C	3C	2C	
PRE-FIX = NO. OF CONDUCTORS	15	F15	#12	25	24	21 (3/4")	21 (3/4")	21 (3/4")	#12
	20	F20	#12	25	24	21 (3/4")	21 (3/4")	21 (3/4")	#12
	30	F30	#10	35	32	27 (1")	21 (3/4")	21 (3/4")	#10
	50	F50	#8	50	44	27 (1")	27 (1")	21 (3/4")	#10
	60	F60	#6	65	60	35 (1 1/4")	35 (1 1/4")	27 (1")	#8
	80	F80	#4	85	76	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#8
	100	F100	#3	100	92	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
	125	F125R	#2	115	-	-	41 (2")	-	#6
	125	F125	#1	130	116	53 (2")	53 (2")	-	#6
	150	F150	#1/0	150	136	53 (2")	53 (2")	-	#6
	200	F200R	#2/0	175	-	-	63 (2 1/2")	-	#6
	200	F200	#3/0	200	180	78 (3")	63 (2 1/2")	-	#4
	225	F225	#4/0	230	208	78 (3")	63 (2 1/2")	-	#4
	250	F250	250MCM	255	232	78 (3")	78 (3")	-	#4
	300	F300	350MCM	310	280	103 (4")	91 (3 1/2")	-	#3
	350	F350	500MCM	380	344	103 (4")	103 (4")	-	#2
	400	F400	600MCM	420	380	103 (4")	103 (4")	-	#2

NOTE:

1. ALL CABLE SHALL BE 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 400A.
5. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #1/0.
6. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER OESC OR IEEE 835.
7. FEEDER TYPE F125R AND F200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRAL/S. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.

NOTES:

◇1 TO BE CONFIRMED WITH TORONTO HYDRO.

◇2 N/A

3. PROVIDE FRAME BLOCK OUTLINE AND SINGLE LINE DIAGRAM AS PER OESC 36-006 AND MOUNT IN EACH ELECTRICAL ROOM.

◇4 SECONDARY NEUTRAL '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 METERING SOCKET AND E-BOX:

7a) METER SOCKET: MUST BE TRANSFORMER RATED. NO AUTOMATIC BYPASS. PROVISION FOR A 10 POLE TEST PANEL, LOCKABLE COVER, TO BE GROUND EXTERNALLY BY A #6Cu GROUND, 1.5m (5'-0") TO CENTER OF OPENING.

7b) METER CONDUIT: 41mm(1 1/2") CONDUIT, NO LB's PERMITTED UNLESS APPROVED BY DISTRICT METERING CREW LEADER. CONTINUOUS FROM METER INSTRUMENT COMPARTMENT TO METER SOCKET, MAXIMUM OF THREE 90 DEGREE BENDS, MAXIMUM CONDUIT LENGTH IS 30m (100ft).

7c) E-BOX: A 300X300X100mm (12"X12"X4") E-BOX IS TO BE MOUNTED DIRECTLY ADJACENT (50mm 2") TO THE METER SOCKET. THE E-BOX WILL BE CONNECT TO THE SOCKET WITH A 16mm(1/2") CONDUIT. A 120V DUPLEX RECEPTACLE WILL BE LOCATED IN THIS BOX. IF POSSIBLE THE 120V SUPPLY SHOULD COME FROM A UPS. THE E-BOX MUST BE LOCKABLE.

7d) PHONE CONDUIT: 16mm (1/2") CONDUIT, BUSHINGS AT BOTH ENDS, WITH PULL STRING, MUST EXTEND FROM JUST ADJACENT TO METER SOCKET TO WHERE THE PHONE TRUNK LINES WILL BE TERMINATED IN THE MAIN PHONE ROOM.

8. COPPER CABLE WITH EQUIVALENT CURRENT RATING WITH FIRE RATED ENCLOSURE OR BURIED IN CONCRETE AS PER OBC ARE ALLOWED TO USE IN LIEU OF MICC CABLE.

◇9 IN THE EMERGENCY CONDITION, ONE ELEVATOR SHALL WORK AT A TIME ALONG WITH FIRE FIGHTER'S ELEVATOR.

◇10 N/A

◇11 N/A

◇12 N/A

◇13 N/A

◇14 METERING EQUIPMENT FOR LEED PROGRESS SUPPLIED BY PROVIDENT, INSTALLED BY ELECTRICAL CONTRACTOR

◇14a REFER TO DRAWING E5-03 METER SCHEDULES FOR QUANTITY OF CT. △1

◇15 HYDRO METERS SUPPLIED BY TORONTO HYDRO, INSTALLED BY ELECTRICAL CONTRACTOR.

ELECTRICAL PANEL AND CIRCUIT DESIGNATION

1. 2EP1RCPW-3
   - '3' - DENOTES CIRCUIT NUMBER
   - 'W' - DENOTES WEST TOWER OR EAST TOWER
   - 'P' - DENOTES POWER AND/OR LIGHTING PANEL
   - 'RC' - DENOTES RESIDENTIAL CONDO
   - 'P1' - DENOTES LOCATION OF PANEL (P1 LEVEL)
   - 'E' - DENOTES EMERGENCY PANEL
   - '2' - DENOTES 120/208V OR
   - '6' - DENOTES 347/600V

2. ADDITIONAL DESIGNATIONS

LAST LETTER 'P' OF THE PANEL DESIGNATION CAN BE REPLACED WITH FOLLOWING LETTERS FOR DIFFERENT TYPE OF PANELS.

OD - OUTDOOR LIGHTING
AL - AMENITY LIGHTING
AP - AMENITY POWER
AM - AMENITY MECHANICAL POWER
PT - PIPE TRACING
SM - SNOW MELTING
M - MECHANICAL POWER

'RC" OF THE PANEL DESIGNATION CAN BE REPLACED WITH THE FOLLOWING DESIGNATIONS

CP - COMMERCIAL PARKING GARAGE
CR - COMMERCIAL RETAIL
RA - RESIDENTIAL ARTSCAPE

3. IF THERE ARE MORE THAN ONE PANEL ON SAME FLOOR WITH SAME DESIGNATION, THEY ARE DIFFERENTIATED BY ADDING 1, 2, 3, E(EAST), W(WEST),ETC. AFTER THE LAST LETTER OF THE PANEL DESIGNATION.

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

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

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Date: 03/09/15

8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10

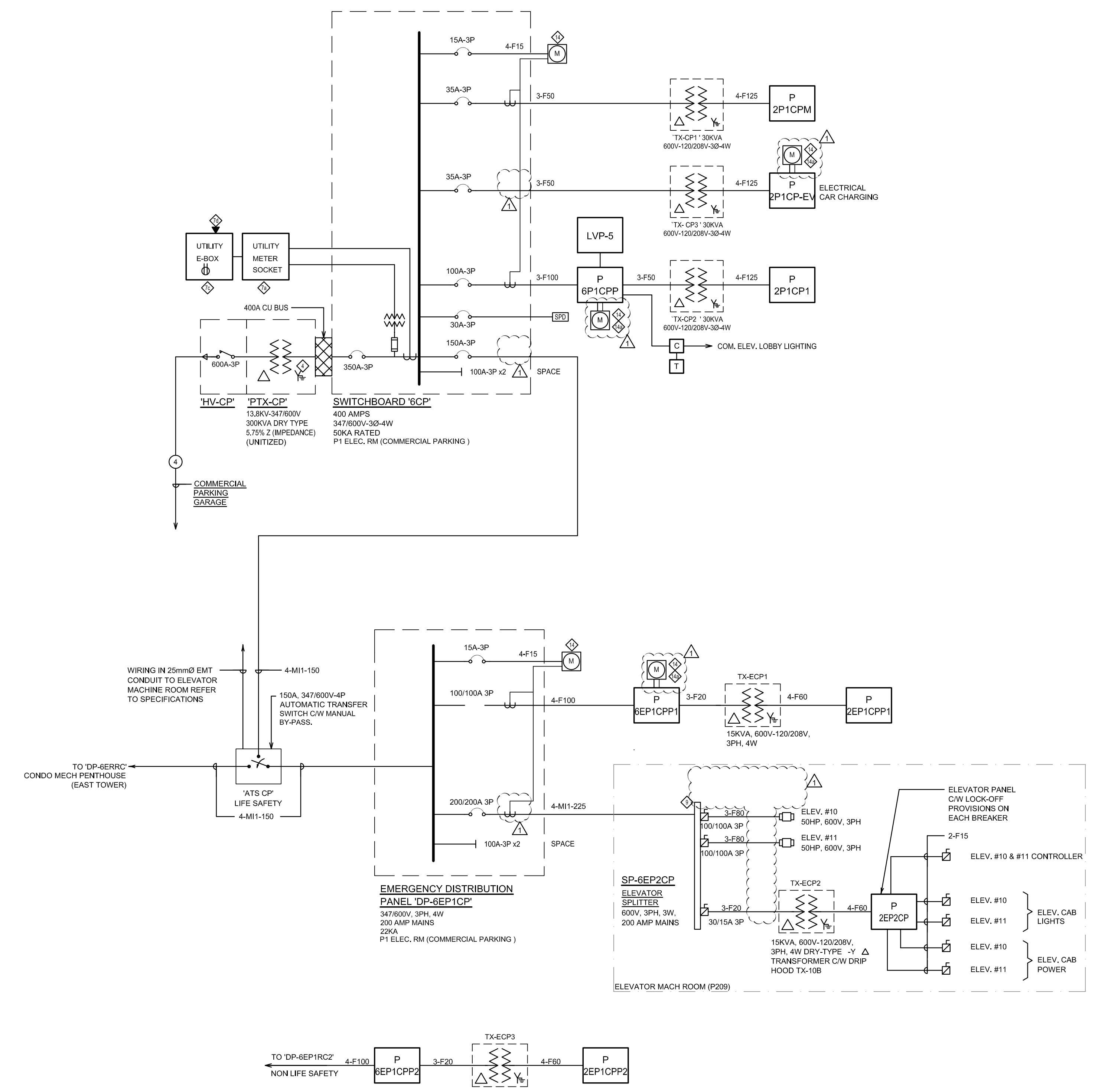
No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	ISSUED FOR BUILDING PERMIT	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
ARTSCAPE - SINGLE LINE DIAGRAM

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

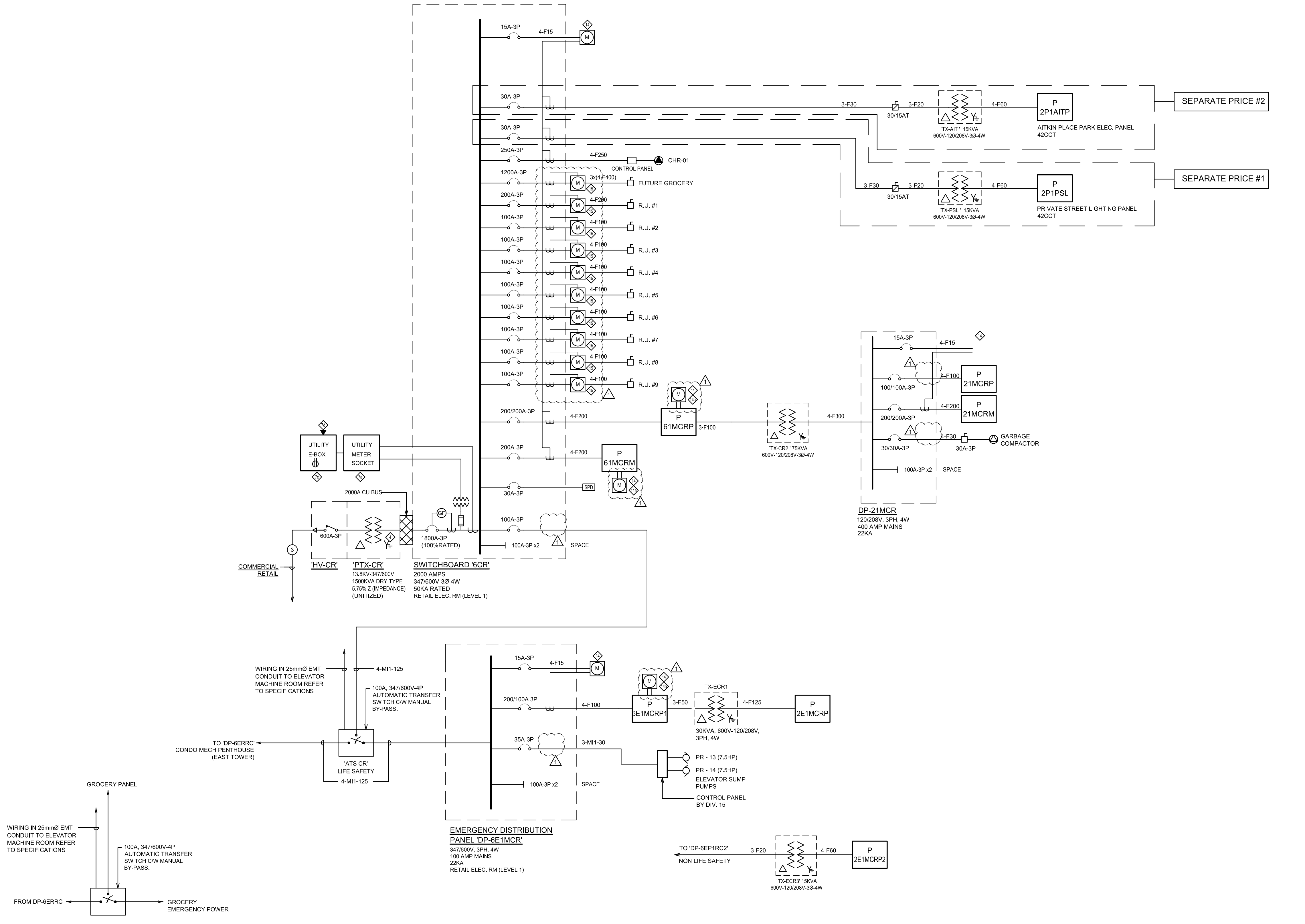
Scale: N.T.S
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 03/09/15
Drawing No.: E3-02-RA


UTILITY E-BOX
UTILITY METER SOCKET
'HV-CP'
'PTX-CP'
15.8KV-347/600V 300KVA DRY TYPE 5.75% Z (IMPEDANCE) (UNITIZED)
SWITCHBOARD '6CP'
400 AMPS
347/600V-3Ø-4W
50KA RATED
P1 ELEC. RM (COMMERCIAL PARKING)
COMMERCIAL PARKING GARAGE
LVP-5
6P1CPP
2P1CPM
2P1CP-EV
ELECTRICAL CAR CHARGING
2P1CP1
COM. ELEV. LOBBY LIGHTING
SPACE
WIRING IN 25mmØ EMT CONDUIT TO ELEVATOR MACHINE ROOM REFER TO SPECIFICATIONS
TO 'DP-6ERRC' CONDO MECH PENTHOUSE (EAST TOWER)
ATS CP LIFE SAFETY
100A, 347/600V-4P AUTOMATIC TRANSFER SWITCH C/W MANUAL BY-PASS.
6EP1CPP
2EP1CPP1
EMERGENCY DISTRIBUTION PANEL 'DP-6EP1CP'
347/600V, 3PH, 4W
200 AMP MAINS
22KA
P1 ELEC. RM (COMMERCIAL PARKING)
SP-6EP2CP
ELEVATOR SPLITTER
600V, 3PH, 3W,
200 AMP MAINS
ELEV. #10
ELEV. #11
ELEVATOR PANEL C/W LOCK-OFF PROVISIONS ON EACH BREAKER
ELEV. #10 & #11 CONTROLLER
ELEV. CAB LIGHTS
ELEV. CAB POWER
2EP2CP
ELEVATOR MACH ROOM (P209)
TO 'DP-6EP1RC2' NON LIFE SAFETY
6EP1CPP2
2EP1CPP2

COMMERCIAL PARKING GARAGE NORMAL & EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM

4 / E3-03

N.T.S.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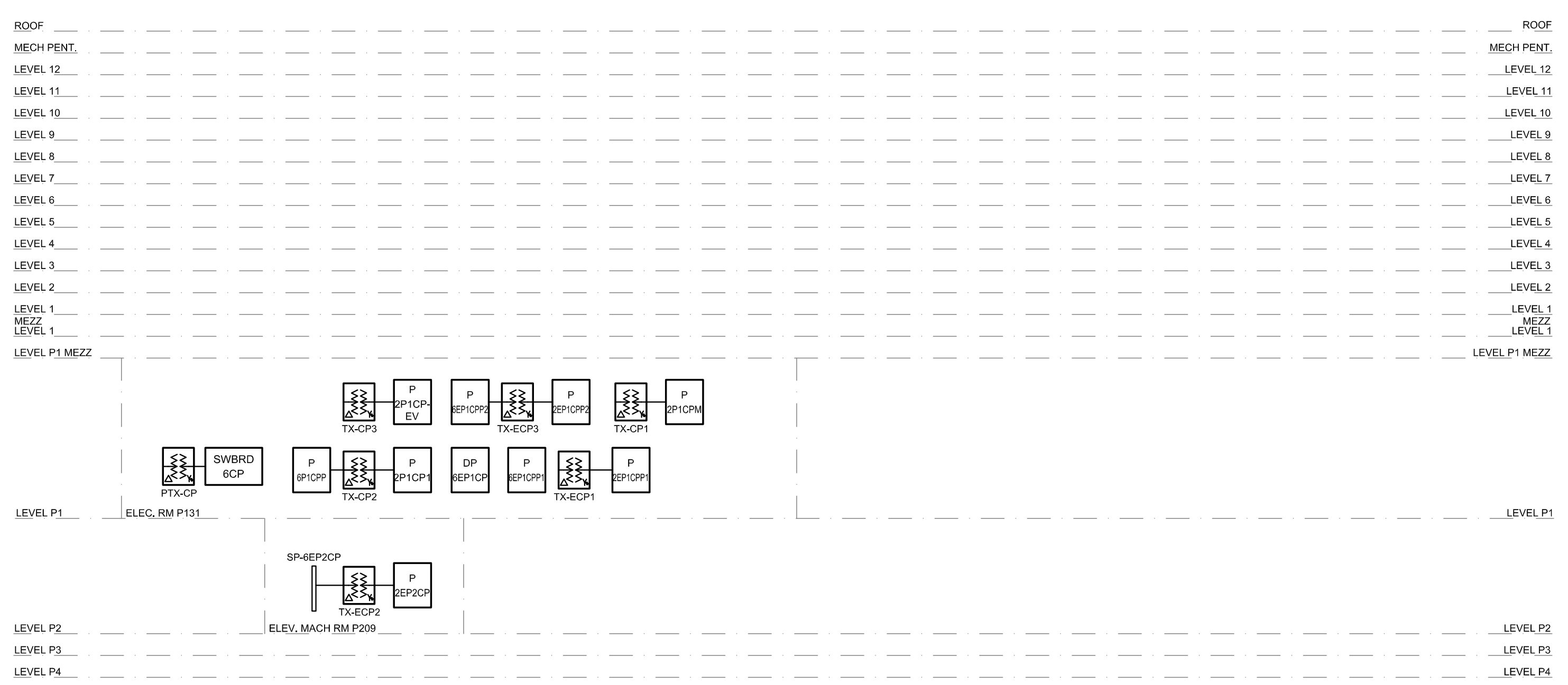
SEPARATE PRICE #1
2P1AITP
AITKIN PLACE PARK ELEC. PANEL 42CCT
2P1PSL
PRIVATE STREET LIGHTING PANEL 42CCT
CHR-01
CONTROL PANEL
FUTURE GROCERY
R.U. #1
R.U. #2
R.U. #3
R.U. #4
R.U. #5
R.U. #6
R.U. #7
R.U. #8
R.U. #9
UTILITY E-BOX
UTILITY METER SOCKET
6I1MCRP
6I1MCRM
21MCRP
21MCRM
DP-21MCR
GARBAGE COMPACTOR
SPACE
COMMERCIAL RETAIL
'HV-CR'
'PTX-CR'
15.8KV-347/600V 1500KVA DRY TYPE 5.75% Z (IMPEDANCE) (UNITIZED)
SWITCHBOARD '6CR'
2000 AMPS
347/600V-3Ø-4W
50KA RATED
RETAIL ELEC. RM (LEVEL 1)
WIRING IN 25mmØ EMT CONDUIT TO ELEVATOR MACHINE ROOM REFER TO SPECIFICATIONS
100A, 347/600V-4P AUTOMATIC TRANSFER SWITCH C/W MANUAL BY-PASS.
TO 'DP-6ERRC' CONDO MECH PENTHOUSE (EAST TOWER)
ATS CR LIFE SAFETY
EMERGENCY DISTRIBUTION PANEL 'DP-6E1MCR'
347/600V, 3PH, 4W
100 AMP MAINS
22KA
RETAIL ELEC. RM (LEVEL 1)
6E1MCRP
2E1MCRP
PR - 13 (7.5HP)
PR - 14 (7.5HP)
ELEVATOR SUMP PUMPS
CONTROL PANEL BY DIV. 15
TO 'DP-6EP1RC2' NON LIFE SAFETY
2E1MCRP2
GROCERY PANEL
SWITCH C/W MANUAL
BY-PASS.
FROM DP-6ERRC
GROCERY EMERGENCY POWER

COMMERCIAL RETAIL NORMAL & EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM

1 / E3-03

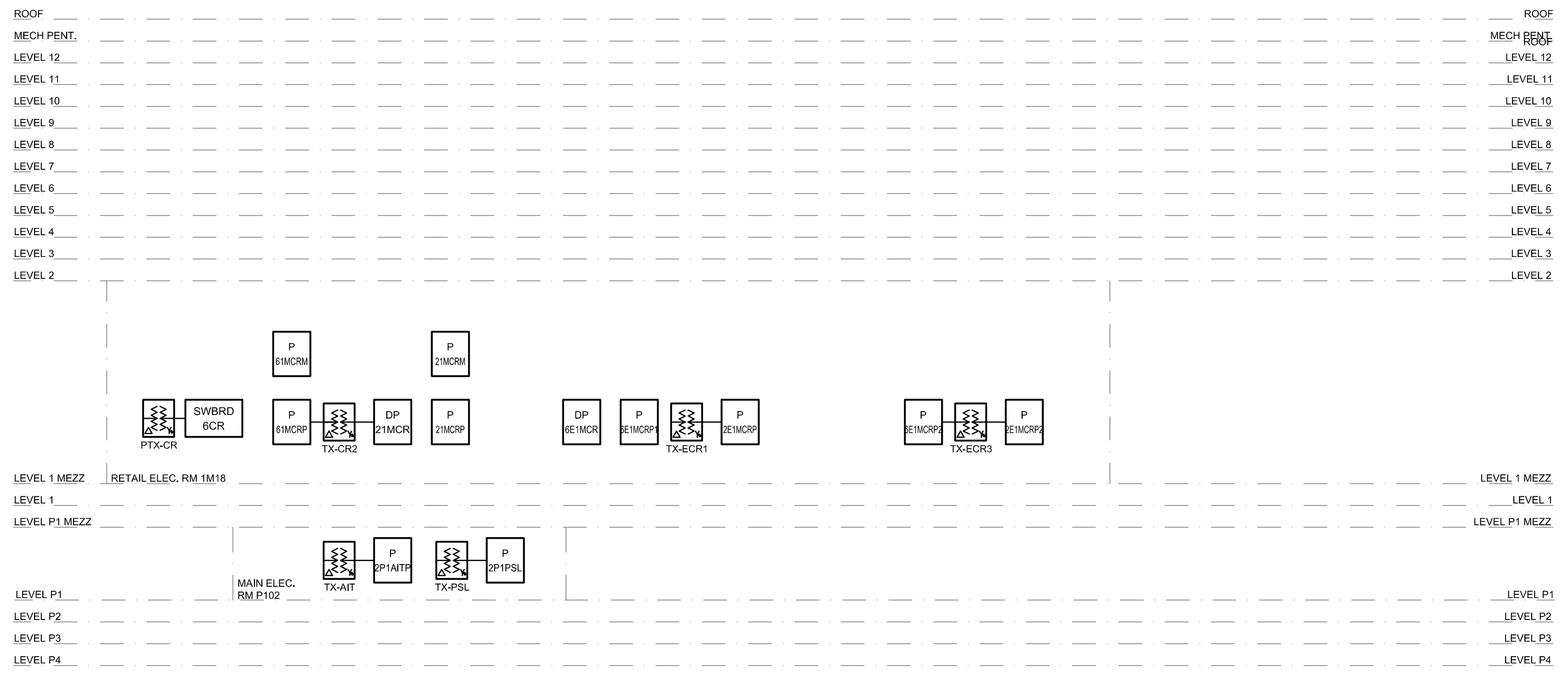
N.T.S.


ROOF
MECH PENT.
LEVEL 12
LEVEL 11
LEVEL 10
LEVEL 9
LEVEL 8
LEVEL 7
LEVEL 6
LEVEL 5
LEVEL 4
LEVEL 3
LEVEL 2
LEVEL 1 MEZZ
LEVEL 1
LEVEL P1 MEZZ
LEVEL P1
LEVEL P2
LEVEL P3
LEVEL P4
SWBRD 6CP
ELEC. RM P131
ELEV. MACH RM P209

COMMERCIAL PARKING DISTRIBUTION RISER

5 / E3-03

N.T.S.


ROOF
MECH PENT.
LEVEL 12
LEVEL 11
LEVEL 10
LEVEL 9
LEVEL 8
LEVEL 7
LEVEL 6
LEVEL 5
LEVEL 4
LEVEL 3
LEVEL 2
LEVEL 1 MEZZ
LEVEL 1
LEVEL P1 MEZZ
LEVEL P1
LEVEL P2
LEVEL P3
LEVEL P4
SWBRD 6CR
RETAIL ELEC. RM 1M19
MAIN ELEC. RM P150

COMMERCIAL RETAIL DISTRIBUTION RISER

3 / E3-03

SCALE: 1:50

600V, 2 HOUR FIRE RATED MI CABLE SCHEDULE

AS MANUFACTURED BY PYROTENAX

PRE-FIX = NO. OF CONDUCTORS		MAX BREAKER SIZE	REF	AMP	SIZE		MAX BREAKER SIZE	REF	AMP	SIZE
	SINGLE CONDUCTOR	15	MI1-15	15	14	THREE CONDUCTORS	15	MI3-15	15	14/3
		20	MI1-20	20	12		20	MI3-20	20	12/3
		30	MI1-30	30	10		30	MI3-30	30	10/3
		70	MI1-70	70	8		50	MI3-50	50	8/3
		90	MI1-90	95	6		60	MI3-60	65	6/3
		125	MI1-125	125	4		80	MI3-80	85	4/3
		150	MI1-150	170	2		100	MI3-100	100	3/3
		175	MI1-175	195	1					
		225	MI1-225	230	1/0					
		250	MI1-250	265	2/0					
		300	MI1-300	310	3/0					
		350	MI1-350	360	4/0					
		400	MI1-400	405	250					
		500	MI1-500	505	350					
		600	MI1-600	620	500					
	TWO CONDUCTORS	15	MI2-15	15	14/2	FOUR CONDUCTORS *	15	MI4-15	15	14/4
		20	MI2-20	20	12/2		20	MI4-20	20	12/4
		30	MI2-30	30	10/2		30	MI4-30	30	10/4
		50	MI2-50	50	8/2		50	MI4-50	50	8/4
		60	MI2-60	65	6/2		60	MI4-60	65	6/4
		80	MI2-80	85	4/2					
		100	MI2-100	100	3/2					
		110	MI2-110	115	2/2					
		125	MI2-125	130	1/2					

NOTE:

*- RATING IS BASED ON 3 CONDUCTORS SUPPLYING CURRENT TO THE LOAD;OTHER CONDUCTOR USED AS NEUTRAL OR FOR CONTROL SIGNAL. DERATING FACTORS SHALL APPLY IF 4TH CONDUCTOR IS USED AS CURRENT CARRYING CONDUCTORS.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - NUAL

	MAX BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP (8) @90°C	CONDUIT SIZE			BONDING CONDUCTOR
						4C	3C	2C	
PRE-FIX = NO. OF CONDUCTORS	90	AL90	#2	90	76	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
	100	AL100R	#2	90			35 (1 1/4")		#4
	100	AL100	#1	100	92	53 (2")	41 (1 1/2")	35 (1 1/4")	#4
	125	AL125	#2/0	135	120	53 (2")	53 (2")	-	#4
	150	AL150	#3/0	155	140	63 (2 1/2")	53 (2")	-	#4
	200	AL200R	#4/0	180			53 (2")		#2
	200	AL200	250MCM	205	184	78 (3")	63 (2 1/2")	-	#2
	225	AL225	300MCM	230	208	78 (3")	78 (3")	-	#2
	250	AL250	350MCM	250	224	78 (3")	78 (3")	-	#2
	300	AL300	500MCM MC NUAL	310	280	-	-	-	#1
	400	AL400	2 RUNS OF 250MCM MC NUAL	410	368	-	-	-	#2
	500	AL500	2 RUNS OF 350MCM MC NUAL	500	448	-	-	-	#2
	600	AL600	2 RUNS OF 500MCM MC NUAL	620	560	-	-	-	#1
	800	AL800	3 RUNS OF 400MCM MC NUAL	810	732	-	-	-	#2

NOTE:

1. ALL CABLE SHALL BE NUAL 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 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 AL100R AND AL200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRAL/S. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.
10. MC DENOTES MULTI CONDUCTOR.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - COPPER

	MAX BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP (8) @90°C	CONDUIT SIZE			BONDING CONDUCTOR
						4C	3C	2C	
PRE-FIX = NO. OF CONDUCTORS	15	F15	#12	25	24	21 (3/4")	21 (3/4")	21 (3/4")	#12
	20	F20	#12	25	24	21 (3/4")	21 (3/4")	21 (3/4")	#12
	30	F30	#10	35	32	27 (1")	21 (3/4")	21 (3/4")	#10
	50	F50	#8	50	44	27 (1")	27 (1")	21 (3/4")	#10
	60	F60	#6	65	60	35 (1 1/4")	35 (1 1/4")	27 (1")	#8
	80	F80	#4	85	76	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#8
	100	F100	#3	100	92	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
	125	F125R	#2	115	-	-	41 (2")	-	#6
	125	F125	#1	130	116	53 (2")	53 (2")	-	#6
	150	F150	#1/0	150	136	53 (2")	53 (2")	-	#6
	200	F200R	#2/0	175	-	-	63 (2 1/2")	-	#6
	200	F200	#3/0	200	180	78 (3")	63 (2 1/2")	-	#4
	225	F225	#4/0	230	208	78 (3")	63 (2 1/2")	-	#4
	250	F250	250MCM	255	232	78 (3")	78 (3")	-	#4
	300	F300	350MCM	310	280	103 (4")	91 (3 1/2")	-	#3
	350	F350	500MCM	380	344	103 (4")	103 (4")	-	#2
	400	F400	600MCM	420	380	103 (4")	103 (4")	-	#2

NOTE:

1. ALL CABLE SHALL BE 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 400A.
5. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #1/0.
6. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER OESC OR IEEE 835.
7. FEEDER TYPE F125R AND F200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRAL/S. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.

NOTES:

◇1 N/A

◇2 N/A

3. PROVIDE FRAME BLOCK OUTLINE AND SINGLE LINE DIAGRAM AS PER OESC 36-006 AND MOUNT IN EACH ELECTRICAL ROOM.

◇4 SECONDARY NEUTRAL '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 METERING SOCKET AND E-BOX:

7a) METER SOCKET: MUST BE TRANSFORMER RATED. NO AUTOMATIC BYPASS. PROVISION FOR A 10 POLE TEST PANEL, LOCKABLE COVER, TO BE GROUND EXTERNALLY BY A #6Cu GROUND, 1.5m (5'-0") TO CENTER OF OPENING.

7b) METER CONDUIT: 41mm(1 1/2") CONDUIT, NO LB's PERMITTED UNLESS APPROVED BY DISTRICT METERING CREW LEADER. CONTINUOUS FROM METER INSTRUMENT COMPARTMENT TO METER SOCKET, MAXIMUM OF THREE 90 DEGREE BENDS, MAXIMUM CONDUIT LENGTH IS 30m (100ft).

7c) E-BOX: A 300X300X100mm (12"X12"X4") E-BOX IS TO BE MOUNTED DIRECTLY ADJACENT (50mm 2") TO THE METER SOCKET. THE E-BOX WILL BE CONNECT TO THE SOCKET WITH A 16mm(1/2") CONDUIT. A 120V DUPLEX RECEPTACLE WILL BE LOCATED IN THIS BOX. IF POSSIBLE THE 120V SUPPLY SHOULD COME FROM A UPS. THE E-BOX MUST BE LOCKABLE.

7d) PHONE CONDUIT: 16mm (1/2") CONDUIT, BUSHINGS AT BOTH ENDS, WITH PULL STRING, MUST EXTEND FROM JUST ADJACENT TO METER SOCKET TO WHERE THE PHONE TRUNK LINES WILL BE TERMINATED IN THE MAIN PHONE ROOM.

8. COPPER CABLE WITH EQUIVALENT CURRENT RATING WITH FIRE RATED ENCLOSURE OR BURIED IN CONCRETE AS PER OBC ARE ALLOWED TO USE IN LIEU OF MICC CABLE.

◇9 IN THE EMERGENCY CONDITION, ONE ELEVATOR SHALL WORK AT A TIME ALONG WITH FIRE FIGHTER'S ELEVATOR.

◇10 N/A

◇11 N/A

◇12 N/A

◇13 N/A

◇14 METERING EQUIPMENT FOR LEED PROGRESS SUPPLIED BY PROVIDENT, INSTALLED BY ELECTRICAL CONTRACTOR

◇14a REFER TO DRAWING E5-03 METER SCHEDULES FOR QUANTITY OF CT. △1

◇15 HYDRO METERS SUPPLIED BY TORONTO HYDRO, INSTALLED BY ELECTRICAL CONTRACTOR.

ELECTRICAL PANEL AND CIRCUIT DESIGNATION

1. 2EP1RCPW-3
   - '3' - DENOTES CIRCUIT NUMBER
   - 'W' - DENOTES WEST TOWER OR EAST TOWER
   - 'P' - DENOTES POWER AND/OR LIGHTING PANEL
   - 'RC' - DENOTES RESIDENTIAL CONDO
   - 'P1' - DENOTES LOCATION OF PANEL (P1 LEVEL)
   - 'E' - DENOTES EMERGENCY PANEL
   - '2' - DENOTES 120/208V OR
   - '6' - DENOTES 347/600V

2. ADDITIONAL DESIGNATIONS

LAST LETTER 'P' OF THE PANEL DESIGNATION CAN BE REPLACED WITH FOLLOWING LETTERS FOR DIFFERENT TYPE OF PANELS.

OD - OUTDOOR LIGHTING
AL - AMENITY LIGHTING
AP - AMENITY POWER
AM - AMENITY MECHANICAL POWER
PT - PIPE TRACING
SM - SNOW MELTING
M - MECHANICAL POWER

'RC" OF THE PANEL DESIGNATION CAN BE REPLACED WITH THE FOLLOWING DESIGNATIONS

CP - COMMERCIAL PARKING GARAGE
CR - COMMERCIAL RETAIL
RA - RESIDENTIAL ARTSCAPE

3. IF THERE ARE MORE THAN ONE PANEL ON SAME FLOOR WITH SAME DESIGNATION, THEY ARE DIFFERENTIATED BY ADDING 1, 2, 3, E(EAST), W(WEST),ETC. AFTER THE LAST LETTER OF THE PANEL DESIGNATION.

FEEDER SCHEDULES AND NOTES

1 / E3-03

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Date: 03/09/15

8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

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No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	ISSUED FOR BUILDING PERMIT	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

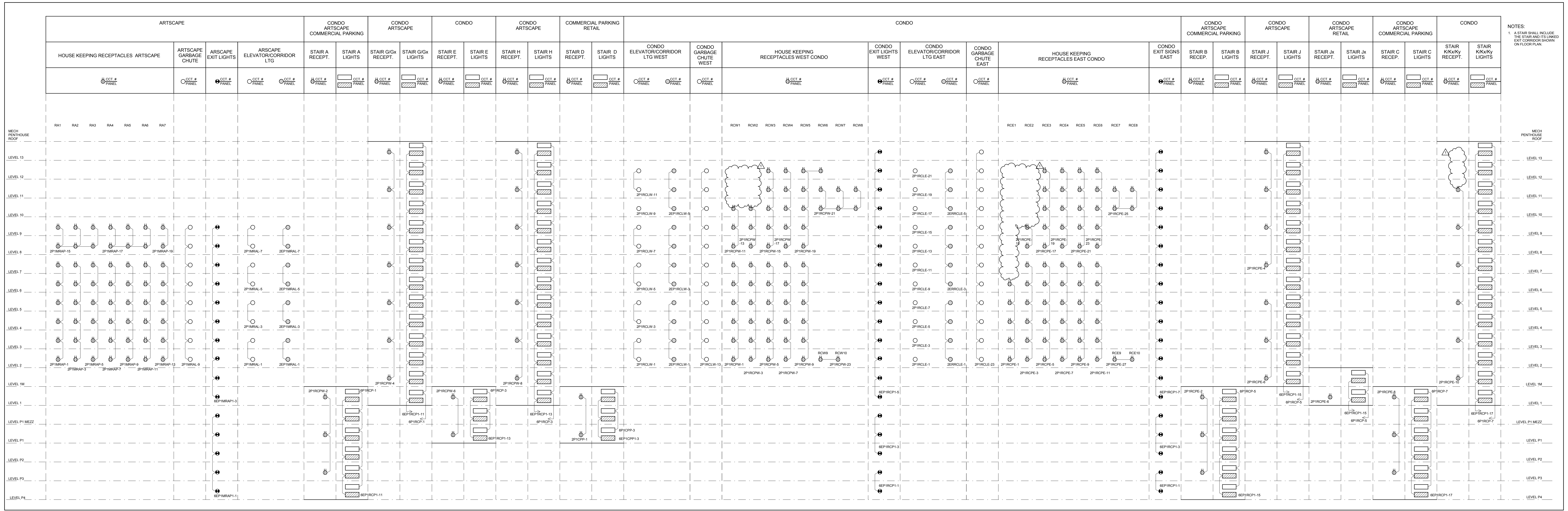
Drawing Title

COMMERCIAL PARKING
/ COMMERCIAL RETAIL -
SINGLE LINE DIAGRAM

Project

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

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


ARTSCAPE
HOUSE KEEPING RECEPTACLES ARTSCAPE
ARTSCAPE GARBAGE CHUTE
ARSCAPE EXIT LIGHTS
ARSCAPE ELEVATOR/CORRIDOR LTG
CONDO ARTSCAPE COMMERCIAL PARKING
STAIR A RECEPT.
STAIR A LIGHTS
CONDO ARTSCAPE
STAIR G/Gx RECEPT.
STAIR G/Gx LIGHTS
CONDO
STAIR E RECEPT.
STAIR E LIGHTS
CONDO ARTSCAPE
STAIR H RECEPT.
STAIR H LIGHTS
COMMERCIAL PARKING RETAIL
STAIR D RECEPT.
STAIR D LIGHTS
CONDO
CONDO ELEVATOR/CORRIDOR LTG WEST
CONDO GARBAGE CHUTE WEST
HOUSE KEEPING RECEPTACLES WEST CONDO
CONDO EXIT LIGHTS WEST
CONDO ELEVATOR/CORRIDOR LTG EAST
CONDO GARBAGE CHUTE EAST
HOUSE KEEPING RECEPTACLES EAST CONDO
CONDO EXIT SIGNS EAST
CONDO ARTSCAPE COMMERCIAL PARKING
STAIR B RECEP.
STAIR B LIGHTS
CONDO ARTSCAPE
STAIR J RECEPT.
STAIR J LIGHTS
CONDO ARTSCAPE RETAIL
STAIR Jx RECEPT.
STAIR Jx LIGHTS
CONDO ARTSCAPE COMMERCIAL PARKING
STAIR C RECEP.
STAIR C LIGHTS
CONDO
STAIR K/Kx/Ky RECEPT.
STAIR K/Kx/Ky LIGHTS
CCT. # / PANEL
RA1 RA2 RA3 RA4 RA5 RA6 RA7
RCW1 RCW2 RCW3 RCW4 RCW5 RCW6 RCW7 RCW8
RCE1 RCE2 RCE3 RCE4 RCE5 RCE6 RCE7 RCE8
MECH PENTHOUSE ROOF
LEVEL 13
LEVEL 12
LEVEL 11
LEVEL 10
LEVEL 9
LEVEL 8
LEVEL 7
LEVEL 6
LEVEL 5
LEVEL 4
LEVEL 3
LEVEL 2
LEVEL 1M
LEVEL 1
LEVEL P1 MEZZ
LEVEL P1
LEVEL P2
LEVEL P3
LEVEL P4
6EP1MRAP1-3
6EP1MRAP1-1

NOTES:

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

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

Plot Date: 09/12/2015 3:27:13 PM File Path: C:\Users\administrator.MCW\Documents\8489D – Aquavista – MEP_Tao_L.rvt

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Date: 03/09/15

8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

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3		
2		
1	ISSUED FOR TENDER	2015-10-30

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

COMMON AREA LIGHTING & POWER RISER DIAGRAM

Project

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

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

FIRE ALARM SYSTEM

ZONE SCHEDULE

ABBREVIATIONS:

MPS - PULL STATION
HD - HEAT DETECTOR
SD - SMOKE DETECTOR
DMSD - DUCT SMOKE DETECTOR

TD - THERMAL DETECTOR
AV - ALARM CHECK
SC - SUPERVISORY CONTACT
SV - SUPERVISED VALVE

FS - FLOE SWITCH
PS - PRESSURE SWITCH
LPS - LOW PRESSURE SWITCH

CONDO

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS		INITIATE AS	DISPLAY
			ALARM	TROUBLE		
ZP4-1	U/G PARKING LEVEL P4 - W	PS/SD/MPS	✓		CONDO W	ALL CACF
ZP4-2	U/G PARKING LEVEL P4 - E	PS/SD/MPS	✓		CONDO E	ALL CACF
ZP4-3	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (P403)	SD	✓		CONDO W	ALL CACF
ZP4-4	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (P413)	SD	✓		CONDO E	ALL CACF
ZP4-5	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZP4-6	U/G PARKING LEVEL P4 - BOILER ROOM (HIGH TEMPERATURE)	FS/HD	✓		CONDO E	ALL CACF
ZP4-7	U/G PARKING LEVEL P4 - CHILLER ROOM	FS/HD	✓		CONDO E	ALL CACF
ZP4-8	U/G PARKING LEVEL P4 - ELEVATOR MACHINE ROOM (P410)	SD	✓		CONDO E	ALL CACF
ZP4-9	SPARE					
ZP3-1	U/G PARKING LEVEL P3 - WEST	PS/SD/MPS	✓		CONDO W	ALL CACF
ZP3-2	U/G PARKING LEVEL P3 - EAST	PS/SD/MPS	✓		CONDO E	ALL CACF
ZP3-3	U/G PARKING LEVEL P3 - ELEVATOR LOBBY (P302)	SD	✓		CONDO W	ALL CACF
ZP3-4	U/G PARKING LEVEL P3 - ELEVATOR LOBBY (P308)	SD	✓		CONDO E	ALL CACF
ZP3-5	U/G PARKING LEVEL P3 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZP3-6	SPARE					
ZP3-7	SPARE					
ZP2-1	SPARE	PS/SD/MPS	✓		CONDO W	ALL CACF
ZP2-2	U/G PARKING LEVEL P2 - EAST	PS/SD/MPS	✓		CONDO E	ALL CACF
ZP2-3	SPARE				CONDO W	ALL CACF
ZP2-4	U/G PARKING LEVEL P2 - ELEVATOR LOBBY (P215)	SD	✓		CONDO E	ALL CACF
ZP2-5	U/G PARKING LEVEL P2 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZP2-6	U/G PARKING LEVEL P2 - MECHANICAL ROOM (P216)	HD/FS	✓		CONDO E	ALL CACF
ZP2-7	U/G PARKING LEVEL P2 - MECHANICAL ROOM (P217)	HD/FS	✓		CONDO E	ALL CACF
ZP2-8	U/G PARKING LEVEL P2 - ELEVATOR MACHINE ROOM (P209)	SD	✓		CONDO W	ALL CACF
ZP2-9	U/G PARKING LEVEL P2 - PARK ELECTRICAL ROOM (P218)	SD	✓		CONDO E	ALL CACF
ZP2-10	SPARE					
ZP1-1	U/G PARKING LEVEL P1 - WEST	PS/SD/MPS	✓		CONDO W	ALL CACF
ZP1-2	U/G PARKING LEVEL P1 - EAST	PS/SD/MPS	✓		CONDO E	ALL CACF
ZP1-3	U/G PARKING LEVEL P1 - AMENTITY	FS/SD/MPS	✓		CONDO W	ALL CACF
ZP1-4	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P117)	SD	✓		CONDO W	ALL CACF
ZP1-5	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P130)	SD	✓		CONDO E	ALL CACF
ZP1-6	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZP1-7	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P123)	SD	✓		CONDO W	ALL CACF
ZP1-8	U/G PARKING LEVEL P1 - MAIN ELETRICAL ROOM (P102)	SD	✓		CONDO W	ALL CACF
ZP1-9	U/G PARKING LEVEL P1 - EAST CONDO ELETRICAL ROOM (P132)	SD	✓		CONDO E	ALL CACF
ZP1-10	U/G PARKING LEVEL P1 - COMM. ELETRICAL ROOM (P131)	SD	✓		CONDO E	ALL CACF
ZP1-11	U/G PARKING LEVEL P1 - ELEVATOR MACHINE ROOM (P125)	SD	✓		CONDO E	ALL CACF
ZP1-12	U/G PARKING LEVEL P1 - CCU / COMMUNICATION ROOM	SD	✓			ALL CACF
ZP1-13	U/G PARKING LEVEL P1 - SPRINKLER ROOM (P121)	HD/FS	✓		CONDO W	ALL CACF
ZP1-14	U/G PARKING LEVEL P1 - MAKE-UP AIR UNIT ROOM (P122)	HD/FS	✓		CONDO W	ALL CACF
ZP1-15	U/G PARKING LEVEL P1 - SECURITY ROOM (P105)	SD	✓		CONDO W	ALL CACF
ZP1-15	U/G PARKING LEVEL P1 - WINDOW SPRINKER COMM. VEST (P124)	FS	✓		CONDO W	ALL CACF
ZP1M-1	U/G PARKING LEVEL P1M - SANITARY PIPE ROOM	HD/FS	✓		CONDO W	ALL CACF
ZP1M-2	SPARE					
Z1-1	LEVEL 1 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z1-2	LEVEL 1 - ELEVATOR LOBBY - COMMERCIAL	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z1-3	LEVEL 1 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z1-4	LEVEL 1 - CONDO - EAST GARBAGE ROOM	HD/FS	✓		CONDO E	C/W & C/E
Z1-5	LEVEL 1 - CONDO - LOADING	PS/MPS	✓		CONDO E	C/W & C/E
Z1-6	LEVEL 1 - CONDO - SERVICE CORRIDOR	MPS/SD	✓		CONDO E	C/W & C/E
Z1-7	LEVEL 1 - CONDO - ELEVATOR ROOM (131)	SD	✓		CONDO E	C/W & C/E
Z1M-1	LEVEL 1 MEZZANINE - CONDO - SERVICE CORRIDOR	SD	✓		CONDO W	C/W & C/E
Z1M-2	LEVEL 1 MEZZANINE - CONDO - WEST GABAGE ROOM	HD/FS	✓		CONDO W	C/W & C/E
Z1M-3	LEVEL 1 MEZZANINE - CONDO - MAKE-UP AIR UNIT ROOM	HD/FS	✓		CONDO W	C/W & C/E
Z1M-4	LEVEL 1 MEZZANINE - CONDO - RECYCLING DROP OOF ROOM	HD/FS	✓		CONDO W	C/W & C/E
Z1M-5	LEVEL 1 MEZZANINE - CONDO - POOL MECH ROOM	HD/FS	✓		CONDO E	C/W & C/E
Z2-1	LEVEL 2 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z2-2	LEVEL 2 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z2-3	LEVEL 2 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z2-4	LEVEL 2 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z2-5	LEVEL 2 - CONDO - AMENITY	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z3-1	LEVEL 3 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z3-2	LEVEL 3 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z3-3	LEVEL 3 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z3-4	LEVEL 3 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z4-1	LEVEL 4 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z4-2	LEVEL 4 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z4-3	LEVEL 4 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z4-4	LEVEL 4 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z5-1	LEVEL 5 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z5-2	LEVEL 5 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z5-3	LEVEL 5 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z5-4	LEVEL 5 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z6-1	LEVEL 6 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z6-2	LEVEL 6 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z6-3	LEVEL 6 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z6-4	LEVEL 6 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z7-1	LEVEL 7 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z7-2	LEVEL 7 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z7-3	LEVEL 7 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z7-4	LEVEL 7 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z8-1	LEVEL 8 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z8-2	LEVEL 8 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z8-3	LEVEL 8 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z8-4	LEVEL 8 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z9-1	LEVEL 9 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z9-2	LEVEL 9 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z9-3	LEVEL 9 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z9-4	LEVEL 9 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z10-1	LEVEL 10 - CONDO	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z10-2	LEVEL 10 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z10-3	LEVEL 10 - CONDO - CENTER - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z10-4	LEVEL 10 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z11-1	LEVEL 11 - CONDO	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z11-2	LEVEL 11 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z11-3	LEVEL 11 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z11-4	SAPRE					
Z12-1	LEVEL 12 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z12-2	LEVEL 12 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z12-3	LEVEL 12 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z12-4	LEVEL 12 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z13-1	LEVEL 13 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z13-2	LEVEL 13 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z13-3	LEVEL 13 - CONDO - EAST - GENERATOR ROOM (HIGH TEMP.)	FS/HD/SD	✓		CONDO E	C/W & C/E
Z13-4	LEVEL 13 - CONDO - EAST - ELEVATOR MACHINE ROOM	FS/HD	✓		CONDO E	C/W & C/E
Z13-5	LEVEL 13 - CONDO - EAST - MECHANICAL ROOM	FS/HD	✓		CONDO E	C/W & C/E
Z13-6	LEVEL 13 - CONDO - EAST - MAKE-UP AIR UNIT ROOM	FS/HD	✓		CONDO E	C/W & C/E
Z14	SPARE					
Z15	SPARE					
Z16	GARBAGE CHUTE - WEST 1	FS/HD	✓		CONDO W	C/W & C/E
Z17	GARBAGE CHUTE - WEST 2	FS/HD	✓		CONDO W	C/W & C/E
Z18	GARBAGE CHUTE - EAST 1	FS/HD	✓		CONDO E	C/W & C/E
Z19	GARBAGE CHUTE - EAST 2	FS/HD	✓		CONDO E	C/W & C/E
Z20	SPARE					
Z21	SPARE					
Z22	STAIR A	SD	✓		CONDO W	C/W & C/E
Z23	STAIR G/Gx	SD	✓		CONDO W	C/W & C/E
Z24	STAIR E	SD	✓		CONDO W	C/W & C/E
Z25	STAIR H	SD	✓		CONDO W	C/W & C/E
Z26	STAIR D	SD	✓		CONDO W	C/W & C/E
Z27	STAIR Z	SD	✓		CONDO W	C/W & C/E
Z28	STAIR B	SD	✓		CONDO E	C/W & C/E
Z29	STAIR Jx	SD	✓		CONDO E	C/W & C/E
Z30	STAIR J	SD	✓		CONDO E	C/W & C/E
Z31	STAIR C	SD	✓		CONDO E	C/W & C/E
Z32	STAIR K/Kx/Ky	SD	✓		CONDO E	C/W & C/E

CONDO

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS		INITIATE AS	DISPLAY
			ALARM	TROUBLE		
Z33	SPARE					
Z34	SPARE					
Z35	SPARE					
Z36	ELEVATOR #1 PIT - CONDO	HD	✓		CONDO W	C/W & C/E
Z37	ELEVATOR #1 SHAFT - CONDO	HD	✓		CONDO W	C/W & C/E
Z38	SPARE					
Z39	ELEVATOR #2 PIT - CONDO	HD	✓		CONDO W	C/W & C/E
Z40	ELEVATOR #2 SHAFT - CONDO	HD	✓		CONDO W	C/W & C/E
Z41	SPARE					
Z42	ELEVATOR #3 PIT - CONDO	HD	✓		CONDO E	C/W & C/E
Z43	ELEVATOR #3 SHAFT - CONDO	HD	✓		CONDO E	C/W & C/E
Z44	SPARE					
Z45	ELEVATOR #4 PIT - CONDO	HD	✓		CONDO E	C/W & C/E
Z46	ELEVATOR #4 SHAFT - CONDO	HD	✓		CONDO E	C/W & C/E
Z47	SPARE					
Z48	ELEVATOR #7 PIT - CONDO - GARBAGE	HD	✓		CONDO E	C/W & C/E
Z49	ELEVATOR #7 SHAFT - CONDO - GARBAGE	HD	✓		CONDO E	C/W & C/E
Z50	SPARE					
Z51	ELEVATOR #9 PIT - CONDO - MOVING	HD	✓		CONDO E	C/W & C/E
Z52	ELEVATOR #9 SHAFT - CONDO - MOVING	HD	✓		CONDO E	C/W & C/E
Z53	SPARE					
Z54	ELEVATOR #10 PIT - COMM.	HD	✓		CONDO W	C/W & C/E
Z55	ELEVATOR #10 SHAFT - COMM.	HD	✓		CONDO W	C/W & C/E
Z56	SPARE					
Z57	ELEVATOR #11 PIT - COMM.	HD	✓		CONDO W	C/W & C/E
Z58	ELEVATOR #11 SHAFT - COMM.	HD	✓		CONDO W	C/W & C/E
Z59	SPARE					
Z60	ELEVATOR #12 PIT - CONDO	HD	✓		CONDO E	C/W & C/E
Z61	ELEVATOR #12 SHAFT - CONDO	HD	✓		CONDO E	C/W & C/E
Z62	SPARE					
Z63	PRE AMPLIFIER TROUBLE			✓	CONDO W	C/W & C/E
Z64	TEL. VOICE TROUBLE			✓	CONDO W	C/W & C/E
Z65	COMMON TROUBLE			✓	CONDO W	C/W & C/E
Z66	SILENCE SWITCH			✓	CONDO W	C/W & C/E
Z67	SPRINKLER LOSS OF AIR PRESSURE			✓	CONDO W	C/W & C/E
Z68	SPRINKLER LOSS OF WATER PRESSURE			✓	CONDO W	C/W & C/E
Z69	SPRINKLER COMPRESSOR LOSS OF POWER			✓	CONDO W	C/W & C/E
Z70	SPRINKLER ROOM LOW TEMPERATURE			✓	CONDO W	C/W & C/E
Z71	JOCKEY PUMP			✓	CONDO W	C/W & C/E
Z72	PIPE TRACING PANEL FOR SPRINKLER/STAND PIPE LOSS OF POWER			✓	CONDO W	C/W & C/E
Z73	FIRE PUMP LOSS OF POWER			✓	CONDO W	C/W & C/E
Z74	FIRE PUMP RUNNING			✓	CONDO W	C/W & C/E
Z75	FIRE PUMP PHASE REVERSED			✓	CONDO W	C/W & C/E
Z76	GENERATOR LOW BATTERY			✓	CONDO E	C/W & C/E
Z77	GENERATOR RUNNING			✓	CONDO E	C/W & C/E
Z78	GENERATOR TROUBLE (COMMON)			✓	CONDO E	C/W & C/E
Z79	GENERATOR LOW GAS PRESSURE			✓	CONDO E	C/W & C/E
Z80	GENERATOR COMBUSTION AIR DAMPER FAULT			✓	CONDO E	C/W & C/E
Z81	GAS METER VALAVE MONITORING	SV	✓		CONDO E	C/W & C/E
Z82	SPARE					
Z83	SNOW MELTING PANEL (P1 LEVEL)			✓	CONDO W	C/W & C/E
Z84	SNOW MELTING PANEL (LEVEL 13 AMENITY)			✓	CONDO W	C/W & C/E
Z85	PIPE TRACING PANEL (P1 LEVEL)			✓	CONDO W	C/W & C/E
Z86	PIPE TRACING PANEL (LEVEL13 AMENITY)			✓	CONDO W	C/W & C/E
Z87	MAIN STORAGE TANK - LOW LEVEL			✓	CONDO W	C/W & C/E
Z88	MAIN STORAGE TANK - WATER TEMPERATURE			✓	CONDO W	C/W & C/E
Z89	MECHANICAL ROOM CO DETECTOR			✓	CONDO W	C/W & C/E
Z90	SPARE					
Z91	MAKE-UP AIR UNIT #1 - CONDO	DMSD	✓		CONDO W	C/W & C/E
Z92	MAKE-UP AIR UNIT #2 - CONDO	DMSD	✓		CONDO W	C/W & C/E
Z93	MAKE-UP AIR UNIT #3 - CONDO	DMSD	✓		CONDO E	C/W & C/E
Z94	SPARE					
Z95	SPARE					
Z96	STAIR PRESS SFC-03 - STAIR A	DMSD	✓		CONDO W	C/W & C/E
Z97	STAIR PRESS SF-X - STAIR E	DMSD	✓		CONDO W	C/W & C/E
Z98	STAIR PRESS SFCM-01 - STAIR D	DMSD	✓		CONDO W	C/W & C/E
Z99	STAIR PRESS SFC-01 - STAIR B	DMSD	✓		CONDO E	C/W & C/E
Z100	STAIR PRESS SFC-02 - STAIR C	DMSD	✓		CONDO E	C/W & C/E
Z101	SPARE					
Z102	SPARE					
Z103	SPARE					
Z104	SPARE					
Z105	SPARE					
Z106	SPARE					
Z107	SPARE					
Z108	SPARE					
Z109	SPARE					
Z110	SPARE					
Z111	SPARE					
Z112	SPARE					
Z113	SPARE					
Z114	SPARE					
Z115	SPARE					
Z116	SPARE					
Z117	SPARE					
Z118	SPARE					
Z119	SPARE					
Z120	SPARE					

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

ARTSCAPE

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS		INITIATE AS	DISPLAY
			ALARM	TROUBLE		
ZP4-1-A	U/G PARKING LEVEL P4 - ARTSCAPE BOILER ROOM (HIGH TEMP.)	FS/HD	✓		ARTSCAPE	ALL CACF
ZP4-2-A	U/G PARKING LEVEL P4 - ARTSCAPE CHILLER ROOM	FS/HD	✓		ARTSCAPE	ALL CACF
ZP2-1-A	U/G PARKING LEVEL P2 - ARTSCAPE - WEST	PS/SD/MPS	✓		ARTSCAPE	ALL CACF
ZP2-2-A	U/G PARKING LEVEL P2 - ARTSCAPE ELEVATOR LOBBY (P205)	SD	✓		ARTSCAPE	ALL CACF
ZP1-1-A	U/G PARKING LEVEL P1 - ARTSCAPE ELEVATOR ROOM (P125)	SD	✓		ARTSCAPE	ALL CACF
ZP1M-1-A	LEVEL P1M - ARTSCAPE - ELECTRICAL ROOM	SD	✓		ARTSCAPE	ALL CACF
Z1-1-A	LEVEL 1 - ARTSCAPE - ELEVATOR LOBBY	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z1M-1-A	LEVEL 1M - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z1M-2-A	LEVEL 1M - ARTSCAPE - GARBAGE ROOM	SD	✓		ARTSCAPE	ALL CACF
Z2-1-A	LEVEL 2 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z2-2-A	LEVEL 2 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z3-1-A	LEVEL 3 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z3-2-A	LEVEL 3 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z4-1-A	LEVEL 4 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z4-2-A	LEVEL 4 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z5-1-A	LEVEL 5 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z5-2-A	LEVEL 5 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z6-1-A	LEVEL 6 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z6-2-A	LEVEL 6 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z7-1-A	LEVEL 7 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z7-2-A	LEVEL 7 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z8-1-A	LEVEL 8 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z8-2-A	LEVEL 8 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z9-1-A	LEVEL 9 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z9-2-A	LEVEL 9 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z13-1-A	LEVEL 13 - ARTSCAPE - ELEVATOR LOBBY	SD	✓		ARTSCAPE	ALL CACF
Z13-2-A	LEVEL 13 - ARTSCAPE - ELEVATOR MACHINE ROOM	SD	✓		ARTSCAPE	ALL CACF
Z13-3-A	LEVEL 13 - ARTSCAPE - AMENITY	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z13-4-A	LEVEL 13 - ARTSCAPE - ELECTRICAL ROOM	SD	✓		ARTSCAPE	ALL CACF
Z13-5-A	LEVEL 13 - ARTSCAPE - GENERATOR ROOM (HIGH TEMP.)	FS/HD/SD	✓		ARTSCAPE	ALL CACF
Z13-6-A	LEVEL 13 - ARTSCAPE - MECHANICAL ROOM	FS/HD	✓		ARTSCAPE	ALL CACF
Z14-A	GARBAGE CHUTE - ARTSCAPE	FS/HD	✓		ARTSCAPE	ALL CACF
Z15-A	SPARE					
Z16-A	ELEVATOR #5 PIT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z17-A	ELEVATOR #5 SHAFT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z18-A	ELEVATOR #6 PIT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z19-A	ELEVATOR #6 SHAFT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z20-A	ELEVATOR #8 PIT - ARTSCAPE - MOVING	HD	✓		ARTSCAPE	ALL CACF
Z21-A	ELEVATOR #8 SHAFT - ARTSCAPE - MOVING	HD	✓		ARTSCAPE	ALL CACF
Z22-A	SPARE					
Z23-A	SPARE					
Z24-A	GENERATOR RUNNING			✓	ARTSCAPE	ALL CACF
Z25-A	GENERATOR TROUBLE (COMMON)			✓	ARTSCAPE	ALL CACF
Z26-A	GENERATOR LOW GAS PRESSURE			✓	ARTSCAPE	ALL CACF
Z27-A	GENERATOR COMBUSTION AIR DAMPER FAULT			✓	ARTSCAPE	ALL CACF
Z28-A	GAS METER VALAVE MONITORING	SV	✓		ARTSCAPE	ALL CACF
Z29-A	SPARE			✓	ARTSCAPE	ALL CACF
Z30-A	SNOW MELTING PANEL (LEVEL 1)			✓	ARTSCAPE	ALL CACF
Z31-A	SNOW MELTING PANEL (LEVEL 13)			✓	ARTSCAPE	ALL CACF
Z32-A	PIPE TRACING PANEL (LEVEL 1)			✓	ARTSCAPE	ALL CACF
Z33-A	PIPE TRACING PANEL (LEVEL13)			✓	ARTSCAPE	ALL CACF
Z34-A	MECHANICAL ROOM CO DETECTOR			✓	ARTSCAPE	ALL CACF
Z35-A	SPARE				ARTSCAPE	ALL CACF
Z36-A	MAKE-UP AIR UNIT - ARTSCAPE	DMSD	✓		ARTSCAPE	ALL CACF
Z37-A	SPARE					
Z38-A	SPARE					
Z39-A	SPARE					
Z40-A	SPARE					
Z41-A	SPARE					
Z42-A	SPARE					
Z43-A	SPARE					
Z44-A	SPARE					
Z45-A	SPARE					
Z46-A	SPARE					
Z47-A	SPARE					
Z48-A	SPARE					
Z49-A	SPARE					
Z50-A	SPARE					

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

RETAIL

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS		INITIATE AS	DISPLAY
			ALARM	TROUBLE		
ZP1M-1-R	LEVEL P1M - RETAIL - CHILLER ROOM	FS/HD	✓		RETAIL	ALL CACF
Z1-1-R	LEVEL 1 - RETAIL - WEST	FS/MPS	✓		RETAIL	ALL CACF
Z1-2-R	LEVEL 1 - RETAIL - EAST	FS/MPS	✓		RETAIL	ALL CACF
Z1-3-R	LEVEL 1 - RETAIL - GARBAGE ROOM	FS/HD	✓		RETAIL	ALL CACF
Z1-4-R	LEVEL 1 - RETAIL - LOADING	PS/MPS	✓		RETAIL	ALL CACF
Z1M-1-R	LEVEL 1M - RETAIL - CONDESER ROOM	FS/HD	✓		RETAIL	ALL CACF
Z1M-2-R	LEVEL 1M - RETAIL - ELECTRICAL ROOM	SD	✓		RETAIL	ALL CACF
Z1M-3-R	LEVEL 1M - RETAIL - MAKE-UP AIR UNIT ROOM	FS/HD	✓		RETAIL	ALL CACF
Z1M-4-R	LEVEL 1M - RETAIL - MECHANICAL ROOM	FS/HD	✓		RETAIL	ALL CACF
Z2	MAKE-UP AIR UNIT - RETAIL	DMSD	✓		RETAIL	ALL CACF
Z						
Z	TO BE DETERMINED					
Z						
Z						
Z						
Z						
Z						
Z						
Z						
Z						
Z						
Z						
Z						
Z						
Z						
Z						
Z						

VOICE COMMUNICATION

ZONE	DESCRIPTION	CONTROL LOCATION
VP4	U/G PARKING LEVEL P4	ALL CACF
VP3	U/G PARKING LEVEL P3	ALL CACF
VP2	U/G PARKING LEVEL P2	ALL CACF
VP1	U/G PARKING LEVEL P1	ALL CACF
VP1M	U/G PARKING LEVEL P1M	ALL CACF
	SPARE	
V1-1	LEVEL 1 - WEST	CONDO W
V1-2	LEVEL 1 - EAST	CONDO E
V1M-1	LEVEL 1 MEZZANINE - WEST	CONDO W
V1M-2	LEVEL 1 MEZZANINE - EAST	CONDO E
V2-1	LEVEL 2 - WEST	CONDO W
V2-2	LEVEL 2 - EAST	CONDO E
V3-1	LEVEL 3 - WEST	CONDO W
V3-2	LEVEL 3 - EAST	CONDO E
V4-1	LEVEL 4 - WEST	CONDO W
V4-2	LEVEL 4 - EAST	CONDO E
V5-1	LEVEL 5 - WEST	CONDO W
V5-2	LEVEL 5 - EAST	CONDO E
V6-1	LEVEL 6 - WEST	CONDO W
V6-2	LEVEL 6 - EAST	CONDO E
V7-1	LEVEL 7 - WEST	CONDO W
V7-2	LEVEL 7 - EAST	CONDO E
V8-1	LEVEL 8 - WEST	CONDO W
V8-2	LEVEL 8 - EAST	CONDO E
V9-1	LEVEL 9 - WEST	CONDO W
V9-2	LEVEL 9 - EAST	CONDO E
V10	LEVEL 10	CONDO W
V11	LEVEL 11	CONDO W
V12-1	LEVEL 12 - WEST	CONDO W
V12-2	LEVEL 12 - EAST	CONDO E
V13-1	LEVEL 13 - WEST	CONDO W
V13-2	LEVEL 13 - EAST	CONDO E
V14	SPARE	
V15	ALL CALL -	ALL CACF
V16	STAIR A	ALL CACF
V17	STAIR B	ALL CACF
V18	STAIR C	ALL CACF
V19	STAIR D	ALL CACF
V20	STAIR E	ALL CACF
V21	SPARE	
V22	STAIR G/Gx	CONDO W
V23	STAIR H	CONDO W
V24	STAIR J	CONDO E
V25	STAIR Jx	ALL CACF
V26	STAIR K/Kx/Ky	CONDO E
V27	SPARE	
V28	SPARE	
V29	SPARE	
V30	SPARE	
V31	SPARE	
V32	SPARE	
V33	SPARE	
V34	SPARE	
V35	SPARE	
V1-A	LEVEL 1 - ARTSCAPE	ARTSCAPE
V1M-A	LEVEL 1M - ARTSCAPE	ARTSCAPE
V2-A	LEVEL 2 - ARTSCAPE	ARTSCAPE
V3-A	LEVEL 3 - ARTSCAPE	ARTSCAPE
V4-A	LEVEL 4 - ARTSCAPE	ARTSCAPE
V5-A	LEVEL 5 - ARTSCAPE	ARTSCAPE
V6-A	LEVEL 6 - ARTSCAPE	ARTSCAPE
V7-A	LEVEL 7 - ARTSCAPE	ARTSCAPE
V8-A	LEVEL 8 - ARTSCAPE	ARTSCAPE
V9-A	LEVEL 9 - ARTSCAPE	ARTSCAPE
V13-A	LEVEL 13 - ARTSCAPE	ARTSCAPE
V14-A	SPARE	
V15-A	SPARE	
V16-A	SPARE	
V17-A	SPARE	

HANDSET ZONES

ZONE	DESCRIPTION	CONTROL LOCATION
HP4	U/G PARKING LEVEL P4	ALL CACF
HP3	U/G PARKING LEVEL P3	ALL CACF
HP2	U/G PARKING LEVEL P2	ALL CACF
HP1	U/G PARKING LEVEL P1	ALL CACF
HP1M	U/G PARKING LEVEL P1M	ALL CACF
	SPARE	
H1-1	LEVEL 1 - WEST	CONDO W
H1-2	LEVEL 1 - EAST	CONDO E
H1M-1	LEVEL 1 MEZZANINE - WEST	CONDO W
H1M-2	LEVEL 1 MEZZANINE - EAST	CONDO E
H2-1	LEVEL 2 - WEST	CONDO W
H2-2	LEVEL 2 - EAST	CONDO E
H3-1	LEVEL 3 - WEST	CONDO W
H3-2	LEVEL 3 - EAST	CONDO E
H4-1	LEVEL 4 - WEST	CONDO W
H4-2	LEVEL 4 - EAST	CONDO E
H5-1	LEVEL 5 - WEST	CONDO W
H5-2	LEVEL 5 - EAST	CONDO E
H6-1	LEVEL 6 - WEST	CONDO W
H6-2	LEVEL 6 - EAST	CONDO E
H7-1	LEVEL 7 - WEST	CONDO W
H7-2	LEVEL 7 - EAST	CONDO E
H8-1	LEVEL 8 - WEST	CONDO W
H8-2	LEVEL 8 - EAST	CONDO E
H9-1	LEVEL 9 - WEST	CONDO W
H9-2	LEVEL 9 - EAST	CONDO E
H10	LEVEL 10	CONDO W
H11	LEVEL 11	CONDO W
H12-1	LEVEL 12 - WEST	CONDO W
H12-2	LEVEL 12 - EAST	CONDO E
H13-1	LEVEL 13 - WEST	CONDO W
H13-2	LEVEL 13 - EAST	CONDO E
H14	SPARE	
H15	SPARE	
H16	SPARE	
H17	SPARE	
H18	SPARE	
H19	SPARE	
H20	SPARE	
H1-A	LEVEL 1 - ARTSCAPE	ARTSCAPE
H1M-A	LEVEL 1M - ARTSCAPE	ARTSCAPE
H2-A	LEVEL 2 - ARTSCAPE	ARTSCAPE
H3-A	LEVEL 3 - ARTSCAPE	ARTSCAPE
H4-A	LEVEL 4 - ARTSCAPE	ARTSCAPE
H5-A	LEVEL 5 - ARTSCAPE	ARTSCAPE
H6-A	LEVEL 6 - ARTSCAPE	ARTSCAPE
H7-A	LEVEL 7 - ARTSCAPE	ARTSCAPE
H8-A	LEVEL 8 - ARTSCAPE	ARTSCAPE
H9-A	LEVEL 9 - ARTSCAPE	ARTSCAPE
H13-A	LEVEL 13 - ARTSCAPE	ARTSCAPE
H14-A	SPARE	
H15-A	SPARE	
H16-A	SPARE	
H17-A	SPARE	

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 EFC-01	ALL CACF
AC-2	PARKING EXHAUST P4 EFC-02	ALL CACF
AC-3	PARKING EXHAUST P3 EFC-03	ALL CACF
AC-4	PARKING EXHAUST P3 EFC-04	ALL CACF
AC-5	PARKING EXHAUST P2 EFC-05	ALL CACF
AC-6	PARKING EXHAUST P2 EFC-06	ALL CACF
AC-7	PARKING EXHAUST P1 EFC-07	ALL CACF
AC-8	PARKING EXHAUST P1 EFC-08	ALL CACF
AC-9	CHILLER ROOM EXHAUST FAN (CONDO) EFC-10	ALL CACF
AC-10	AMENITY EXHAUST FAN EFC-37	ALL CACF
AC-11	CHILLER ROOM EXHAUST FAN (ARTSCAPE) EFA-02	ALL CACF
AC-12	CHILLER ROOM EXHAUST FAN (RETAIL) EFR-03	ALL CACF
AC-13	STAIR A - PRESSURIZATION FAN SFC-03	ALL CACF (BELOW GRADE STAIR) (ON/AUTO/OFF)
AC-14	STAIR A - PRESSURIZATION FAN DAMPER	
AC-15	STAIR A - PRESSURE RELIEF DAMPER/DOOR	
AC-16	STAIR E - PRESSURIZATION FAN SF-XX	
AC-17	STAIR E - PRESSURIZATION FAN DAMPER	
AC-18	STAIR E - PRESSURE RELIEF DAMPER/DOOR	
AC-19	STAIR D - PRESSURIZATION FAN SFCM-01	
AC-20	STAIR D - PRESSURIZATION FAN DAMPER	
AC-21	STAIR D - PRESSURE RELIEF DAMPER/DOOR	
AC-22	STAIR B - PRESSURIZATION FAN SFC-01	
AC-23	STAIR B - PRESSURIZATION FAN DAMPER	
AC-24	STAIR B - PRESSURE RELIEF DAMPER/DOOR	
AC-25	STAIR C - PRESSURIZATION FAN SFC-02	
AC-26	STAIR C - PRESSURIZATION FAN DAMPER	
AC-27	STAIR C - PRESSURE RELIEF DAMPER/DOOR	
AC-28	SPARE	
AC-29	BOILER ROOM SUUPPLY FAN SFC-04 - CONDO	C/W & C/E
AC-30	BOILER ROOM SUUPPLY FAN SFC-04 MOTORIZED DAMPER	C/W & C/E
AC-31	SPARE	
AC-32	MAKE-UP AIR #1 - CONDO	C/W & C/E
AC-33	MAKE-UP AIR #2 - CONDO	C/W & C/E
AC-34	MAKE-UP AIR #3 - CONDO	C/W & C/E
AC-35	SPARE	
AC-36	BOILER ROOM SUUPPLY FAN SFA-01 - ARTSCAPE	ARTSCAPE
AC-37	BOILER ROOM SUUPPLY FAN SFA-01 MOTORIZED DAMPER	ARTSCAPE
AC-38	SPARE	
AC-39	MAKE-UP AIR #1 - ARTSCAPE	ARTSCAPE
AC-40	SPARE	
AC-41	BOILER ROOM SUUPPLY FAN SFR-01 - RETAIL	RETAIL
AC-42	BOILER ROOM SUUPPLY FAN SFR-01 MOTORIZED DAMPER	RETAIL
AC-43	SPARE	
AC-44	MAKE-UP AIR #1 - RETAIL	RETAIL
AC-45	SPARE	
AC-46	ELEVATOR RECALL (ELEV. #1, #2, #3 & #4)	C/W & C/E
AC-47	ELEVATOR RECALL ARTSCAPE (ELEV. #5 & #6)	ARTSCAPE
AC-48	ELEVATOR RECALL (ELEV. #7 & #9)	C/W & C/E
AC-49	ELEVATOR RECALL ARTSCAPE (ELEV. #8)	ARTSCAPE
AC-50	ELEVATOR RECALL COMM. PARKING (ELEV. #10 & #11)	C/W & C/E
AC-51	ELEVATOR RECALL (ELEV. #12)	C/W & C/E
AC-52	SPARE	
AC-53	SPARE	
AC-54	MAGNETIC -LOCK RELEASE	ALL CACF
AC-55	FIRE AGENCY	ALL CACF
AC-56	COMMON TROUBLE	ALL CACF
AC-57	COMMON ALARM	ALL CACF
AC-58	SPARE	
AC-59	SPARE	
AC-60	SPARE	
AC-61	SPARE	
AC-62	SPARE	
AC-63	SPARE	
AC-64	SPARE	
AC-65	SPARE	

Contractor Must Check And Verify All Dimensions On The Job.

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Date: 08/11/15

8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10

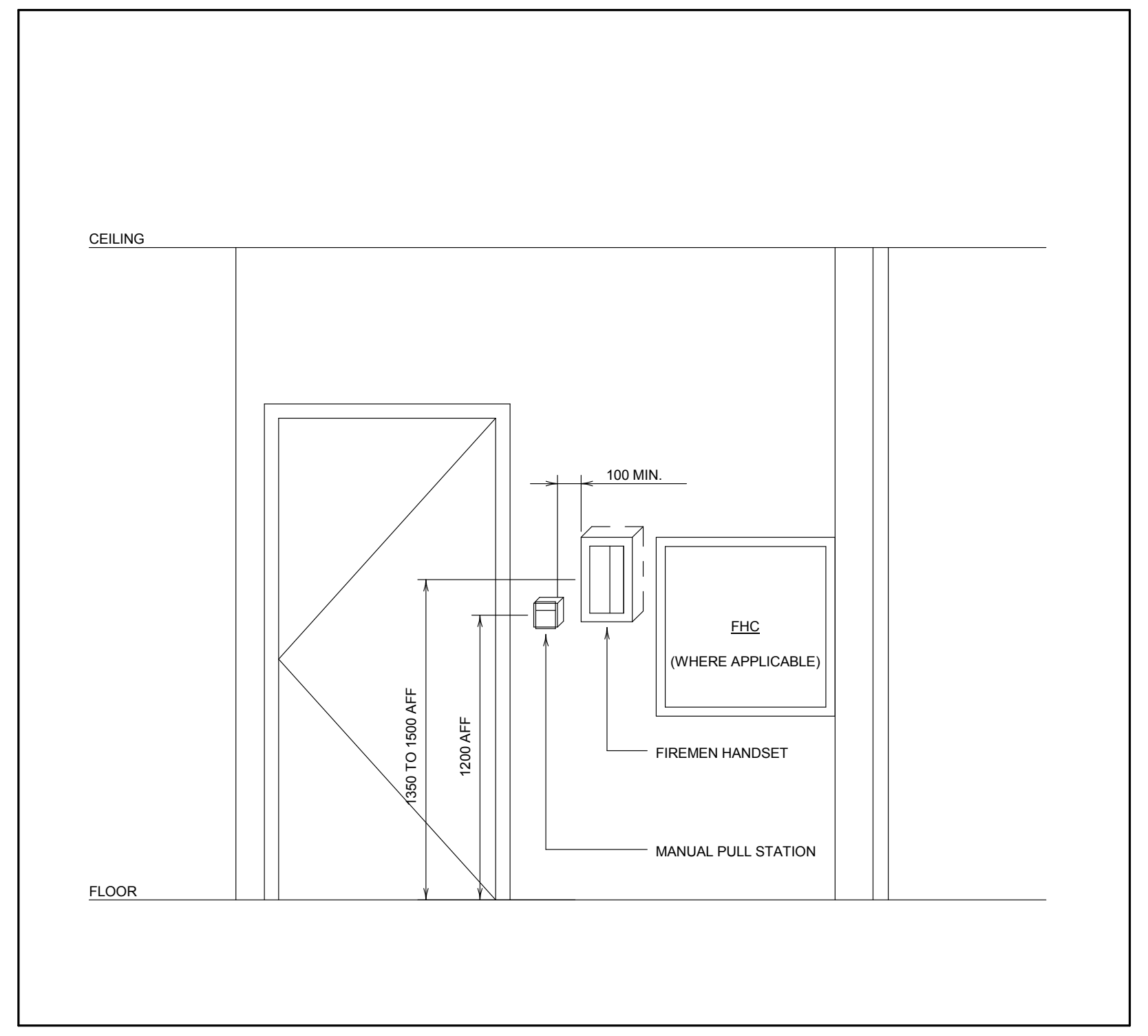
No	Issued For	Date
3		
2		
1	ISSUED FOR TENDER	2015-10-30

AQUAVISTA
AT BAYSIDE TORONTO

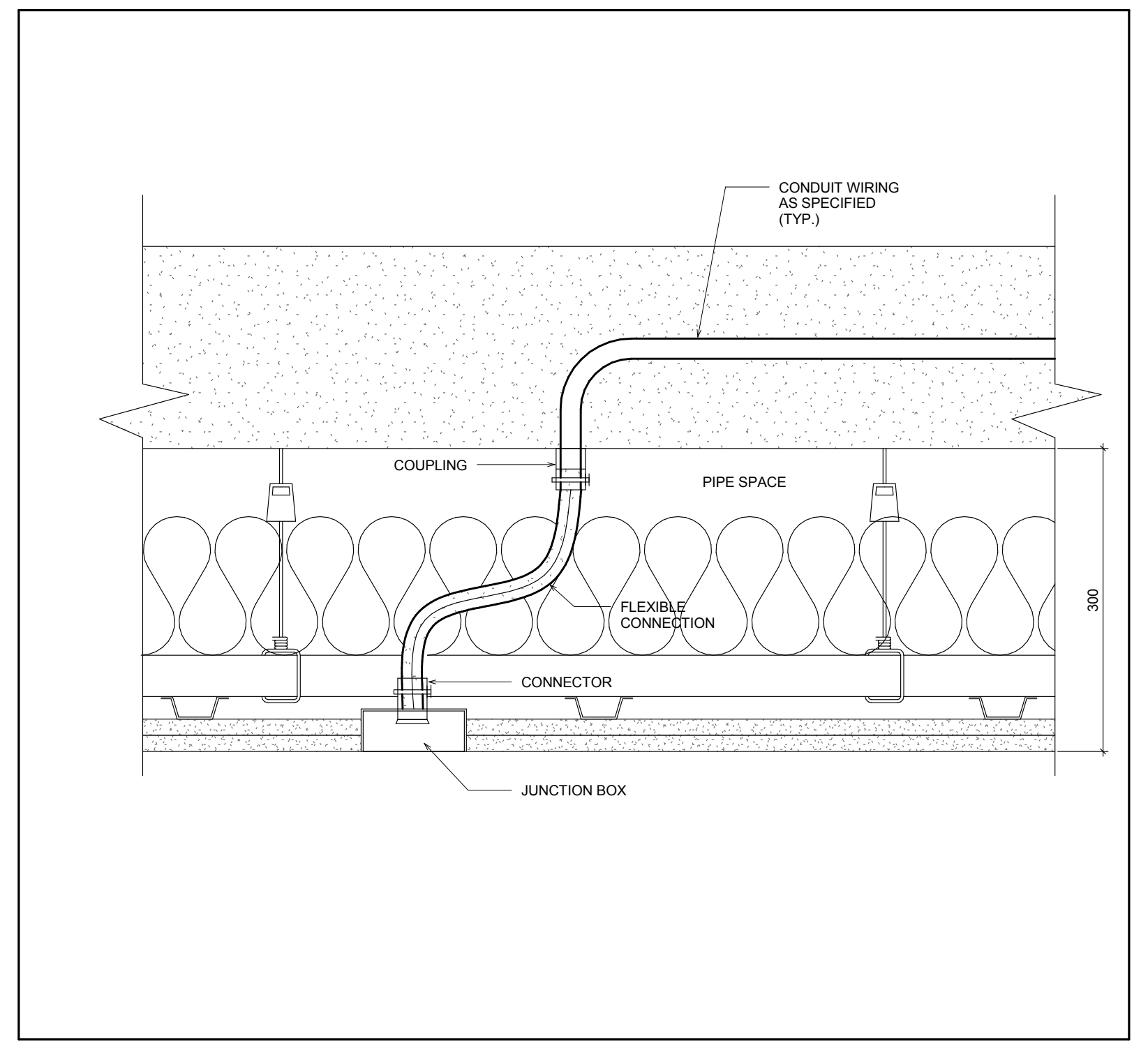
Drawing Title
FIRE ALARM SCHEDULES

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

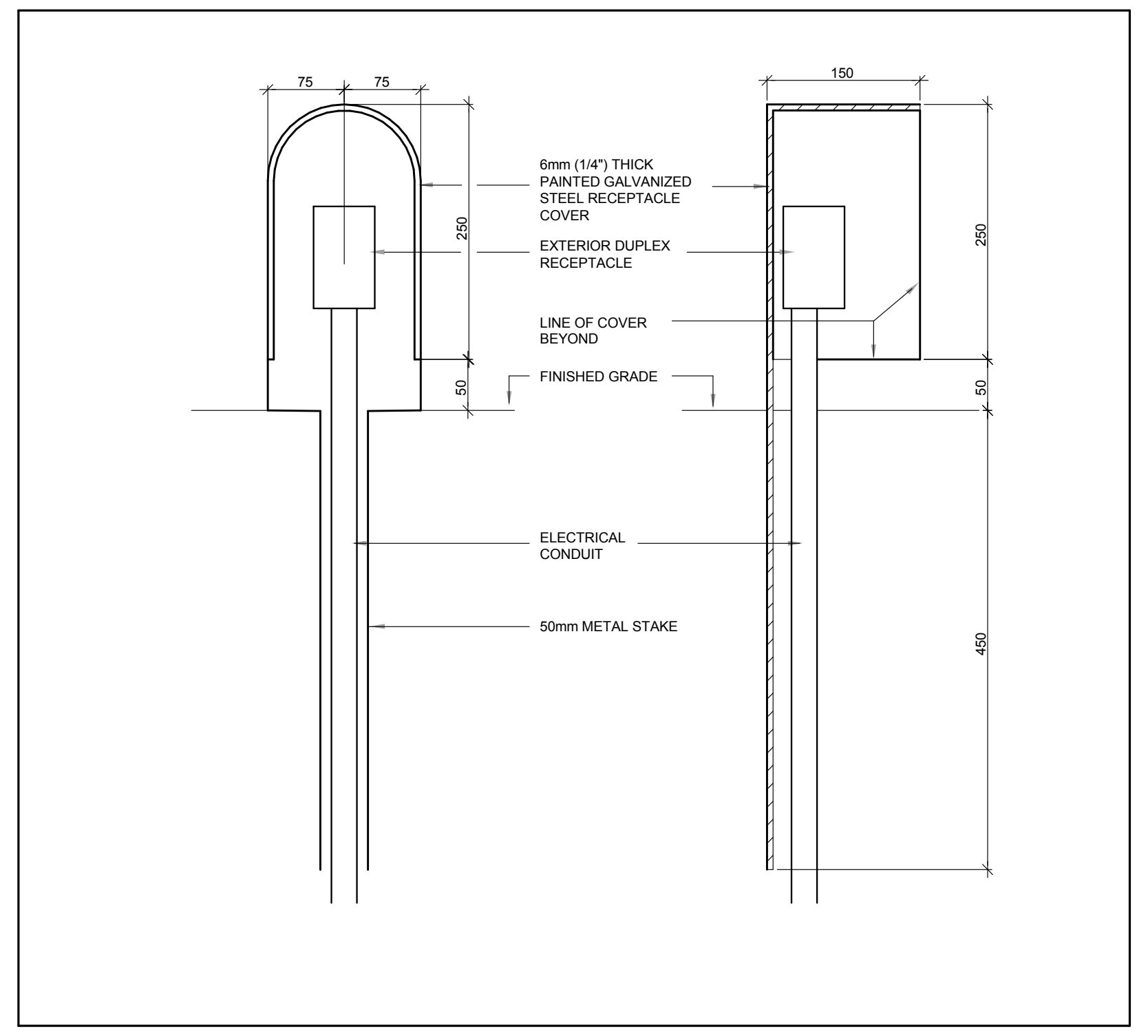
Scale: N.T.S
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 08/11/15
Drawing No.: E4-04


CEILING
100 MIN.
FHC
(WHERE APPLICABLE)
FIREMEN HANDSET
1350 TO 1500 AFF
1200 AFF
MANUAL PULL STATION
FLOOR

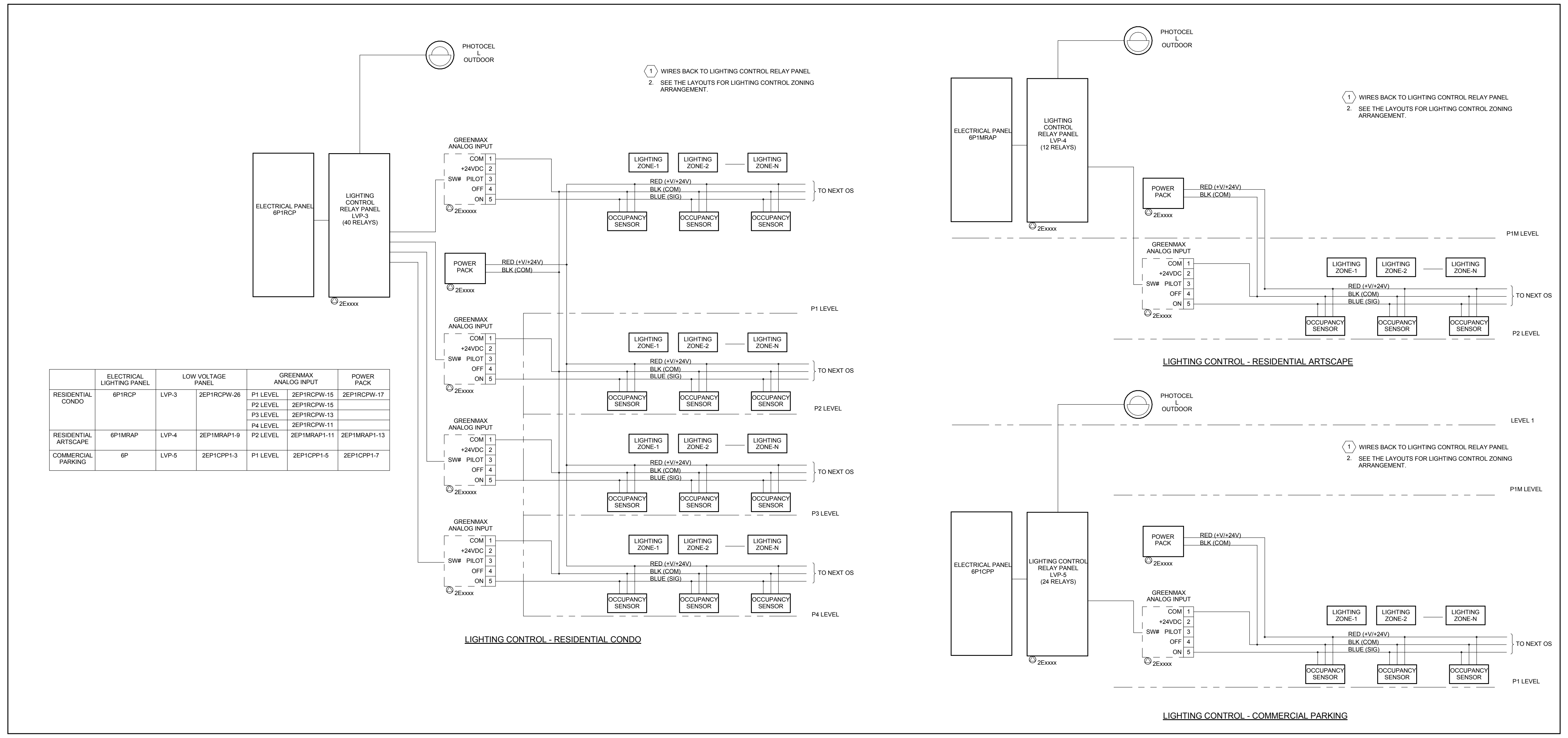
11 TYPICAL DEVICE MOUNTING DETAIL AT STAIR EXIT DOORS
N.T.S.


CONDUIT WIRING
AS SPECIFIED
(TYP.)
COUPLING
PIPE SPACE
FLEXIBLE
CONNECTION
300
CONNECTOR
JUNCTION BOX

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


75
75
150
6mm (1/4") THICK
PAINTED GALVANIZED
STEEL RECEPTACLE
COVER
EXTERIOR DUPLEX
RECEPTACLE
LINE OF COVER
BEYOND
FINISHED GRADE
250
50
450
ELECTRICAL
CONDUIT
50mm METAL STAKE

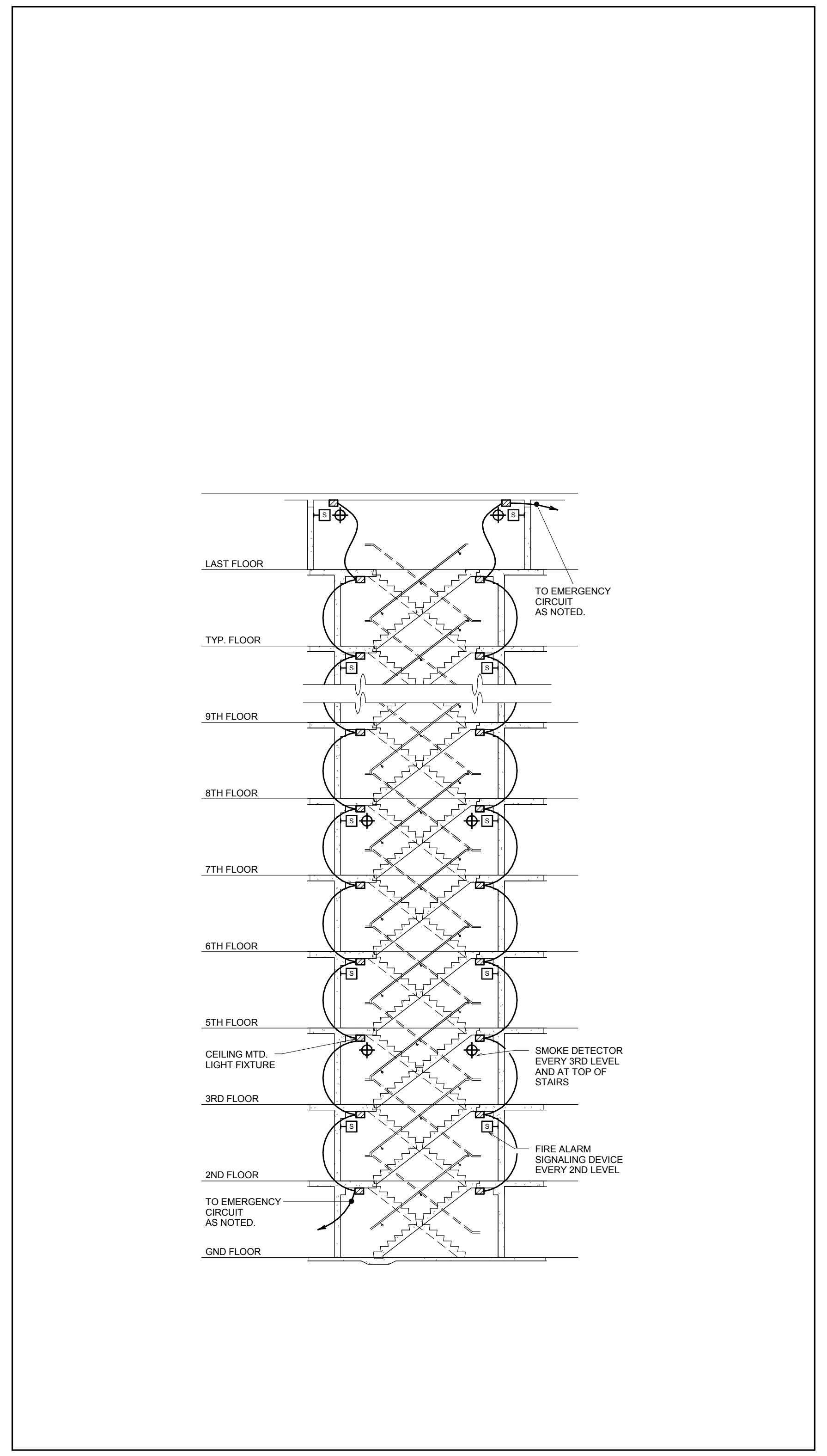
10 LANDSCAPE AREA RECEPTACLE
N.T.S.


PHOTOCEL
L
OUTDOOR
ELECTRICAL PANEL
6P1RCP
LIGHTING
CONTROL
RELAY PANEL
LVP-3
(40 RELAYS)
2Exxxx
GREENMAX
ANALOG INPUT
COM
+24VDC
SW#
PILOT
OFF
ON
POWER
PACK
RED (+V/+24V)
BLK (COM)
BLUE (SIG)
LIGHTING
ZONE-1
LIGHTING
ZONE-2
LIGHTING
ZONE-N
OCCUPANCY
SENSOR
TO NEXT OS
P1 LEVEL
P2 LEVEL
P3 LEVEL
P4 LEVEL
LIGHTING CONTROL - RESIDENTIAL CONDO
ELECTRICAL PANEL
6P1MRAP
LIGHTING
CONTROL
RELAY PANEL
LVP-4
(12 RELAYS)
P1M LEVEL
LIGHTING CONTROL - RESIDENTIAL ARTSCAPE
LEVEL 1
ELECTRICAL PANEL
6P1CPP
LIGHTING CONTROL
RELAY PANEL
LVP-5
(24 RELAYS)
LIGHTING CONTROL - COMMERCIAL PARKING

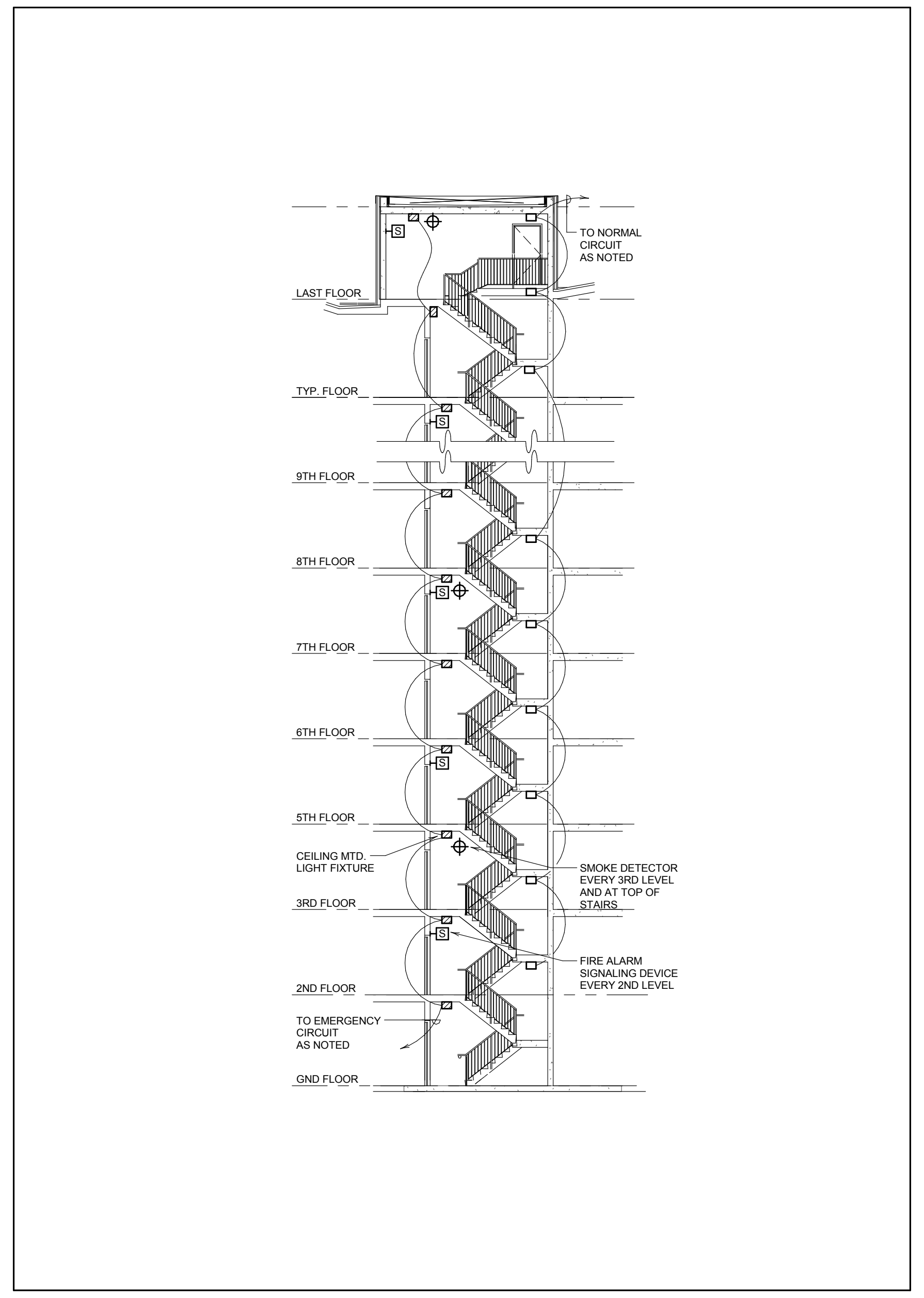
1. WIRES BACK TO LIGHTING CONTROL RELAY PANEL
2. SEE THE LAYOUTS FOR LIGHTING CONTROL ZONING ARRANGEMENT.

	ELECTRICAL LIGHTING PANEL	LOW VOLTAGE PANEL		GREENMAX ANALOG INPUT		POWER PACK
RESIDENTIAL CONDO	6P1RCP	LVP-3	2EP1RCPW-26	P1 LEVEL	2EP1RCPW-15	2EP1RCPW-17
				P2 LEVEL	2EP1RCPW-15	
				P3 LEVEL	2EP1RCPW-13	
				P4 LEVEL	2EP1RCPW-11	
RESIDENTIAL ARTSCAPE	6P1MRAP	LVP-4	2EP1MRAP1-9	P2 LEVEL	2EP1MRAP1-11	2EP1MRAP1-13
COMMERCIAL PARKING	6P	LVP-5	2EP1CPP1-3	P1 LEVEL	2EP1CPP1-5	2EP1CPP1-7

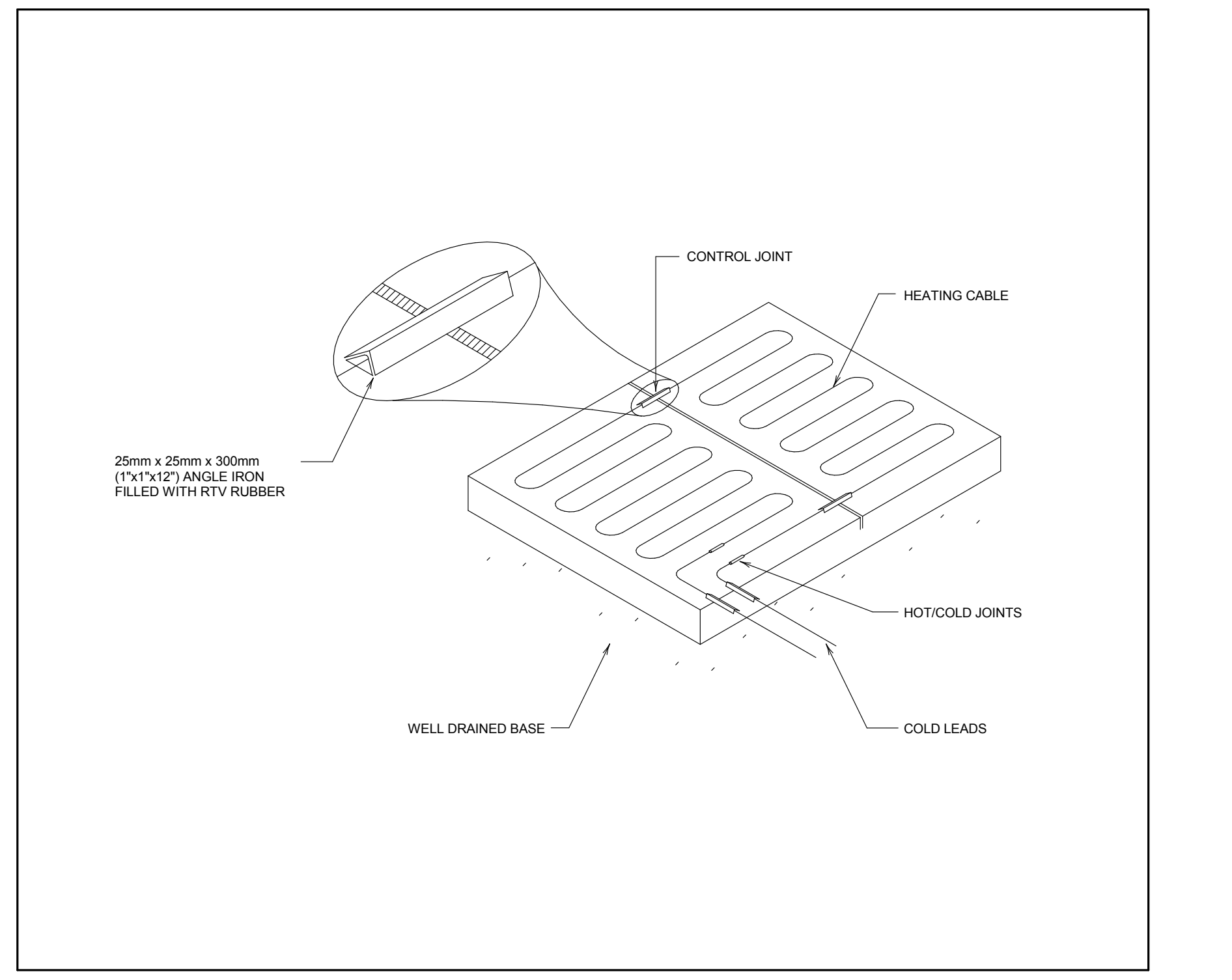
8 LIGHTING CONTROL - PARKING AREA RISER DIAGRAM
N.T.S.


LAST FLOOR
TYP. FLOOR
9TH FLOOR
8TH FLOOR
7TH FLOOR
6TH FLOOR
5TH FLOOR
CEILING MTD.
LIGHT FIXTURE
3RD FLOOR
2ND FLOOR
TO EMERGENCY
CIRCUIT
AS NOTED
GND FLOOR
TO EMERGENCY
CIRCUIT
AS NOTED.
SMOKE DETECTOR
EVERY 3RD LEVEL
AND AT TOP OF
STAIRS
FIRE ALARM
SIGNALING DEVICE
EVERY 2ND LEVEL

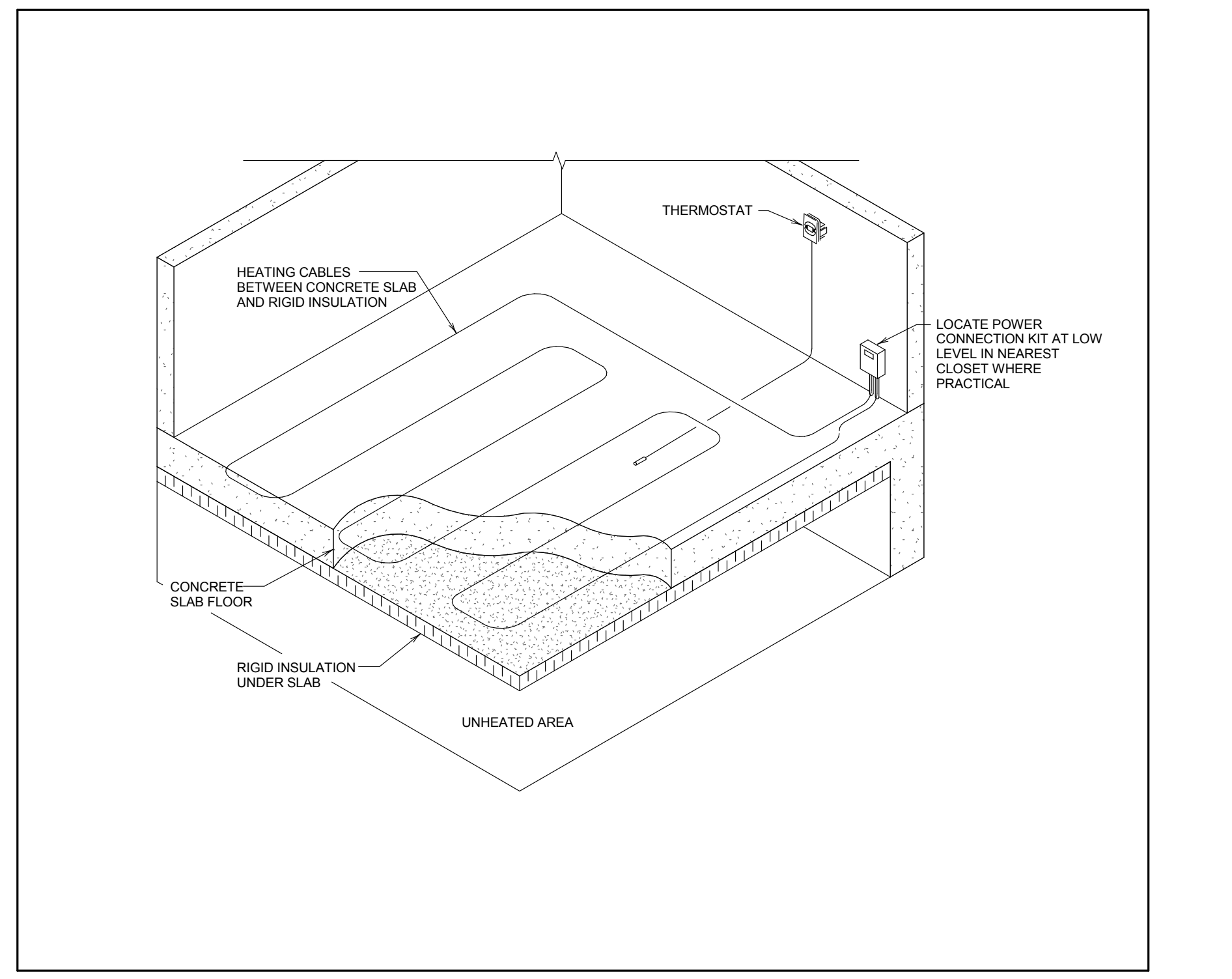
7 TYPICAL SCISSOR STAIR
N.T.S.


TO NORMAL
CIRCUIT
AS NOTED
LAST FLOOR
TYP. FLOOR
9TH FLOOR
8TH FLOOR
7TH FLOOR
6TH FLOOR
5TH FLOOR
CEILING MTD.
LIGHT FIXTURE
3RD FLOOR
2ND FLOOR
TO EMERGENCY
CIRCUIT
AS NOTED
GND FLOOR
SMOKE DETECTOR
EVERY 3RD LEVEL
AND AT TOP OF
STAIRS
FIRE ALARM
SIGNALING DEVICE
EVERY 2ND LEVEL

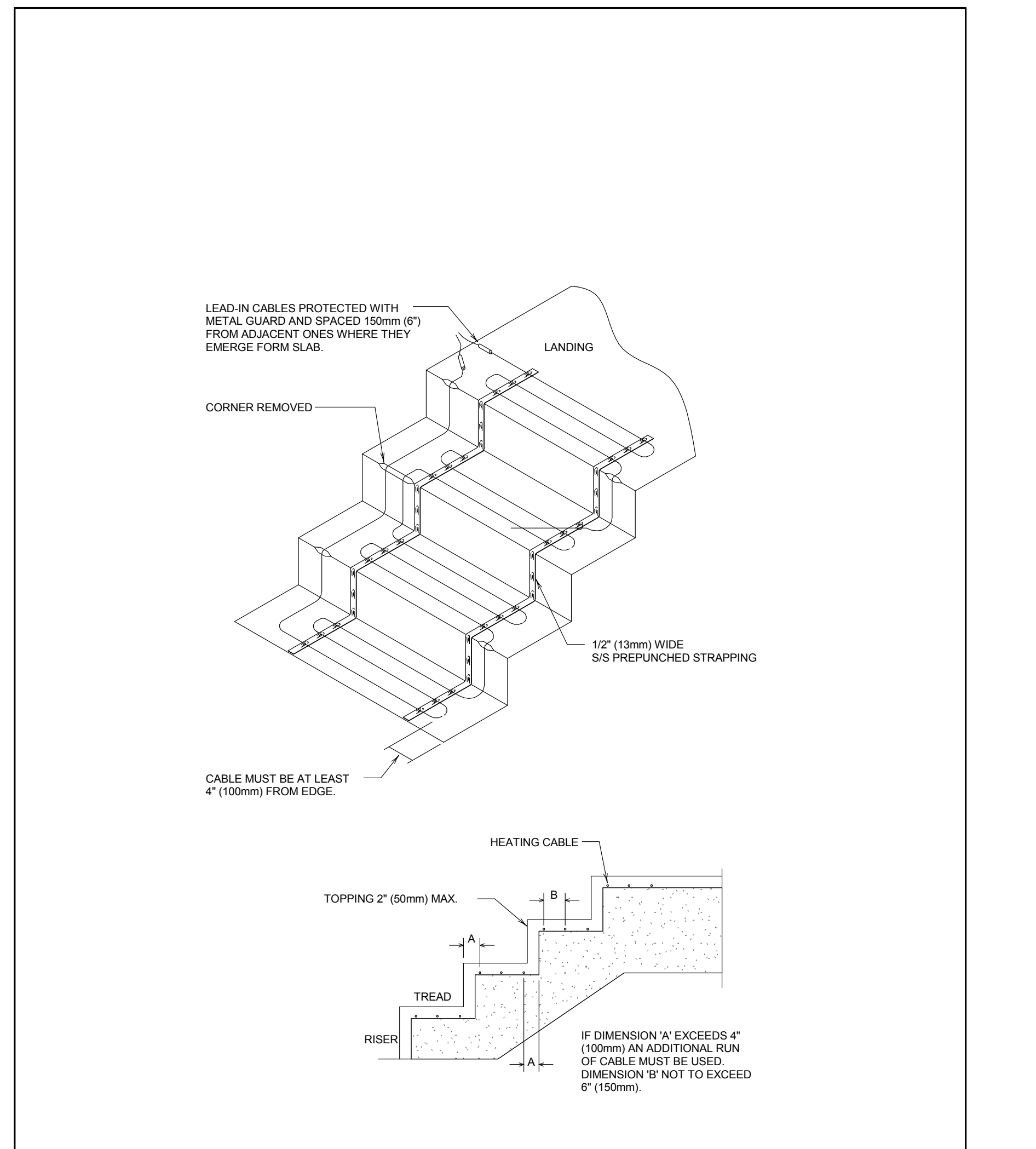
6 TYPICAL CROSS OVER STAIR
N.T.S.


CONTROL JOINT
HEATING CABLE
25mm x 25mm x 300mm
(1"x1"x12") ANGLE IRON
FILLED WITH RTV RUBBER
HOT/COLD JOINTS
WELL DRAINED BASE
COLD LEADS

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


THERMOSTAT
HEATING CABLES
BETWEEN CONCRETE SLAB
AND RIGID INSULATION
LOCATE POWER
CONNECTION KIT AT LOW
LEVEL IN NEAREST
CLOSET WHERE
PRACTICAL
CONCRETE
SLAB FLOOR
RIGID INSULATION
UNDER SLAB
UNHEATED AREA

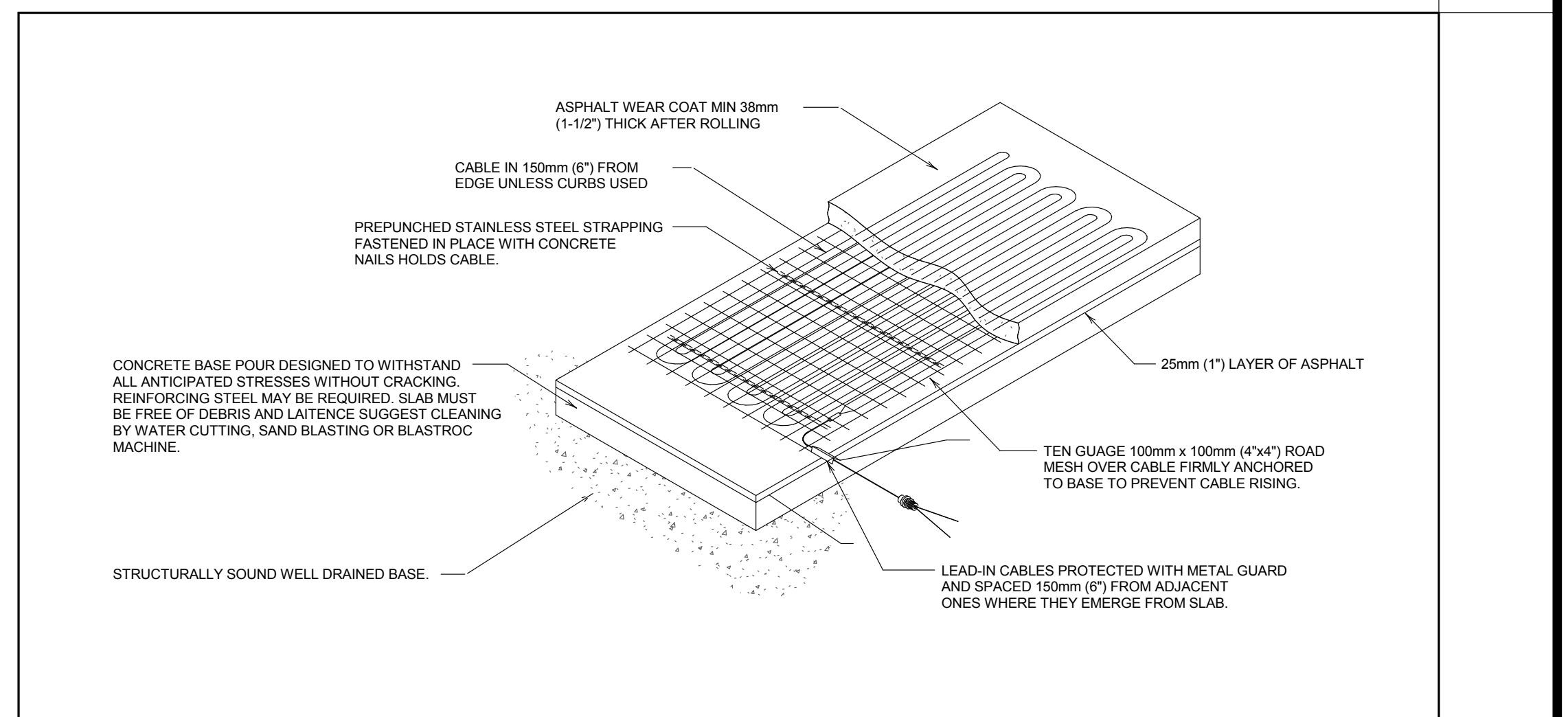
4 TYPE 'B' - HEATING CABLES UNDER SLAB DETAIL
N.T.S.


LEAD-IN CABLES PROTECTED WITH
METAL GUARD AND SPACED 150mm (6")
FROM ADJACENT ONES WHERE THEY
EMERGE FORM SLAB.
LANDING
CORNER REMOVED
1/2" (13mm) WIDE
S/S PREPUNCHED STRAPPING
CABLE MUST BE AT LEAST
4" (100mm) FROM EDGE.
HEATING CABLE
TOPPING 2" (50mm) MAX.
B
A
TREAD
RISER
A
IF DIMENSION 'A' EXCEEDS 4"
(100mm) AN ADDITIONAL RUN
OF CABLE MUST BE USED.
DIMENSION 'B' NOT TO EXCEED
6" (150mm).

NOTE

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

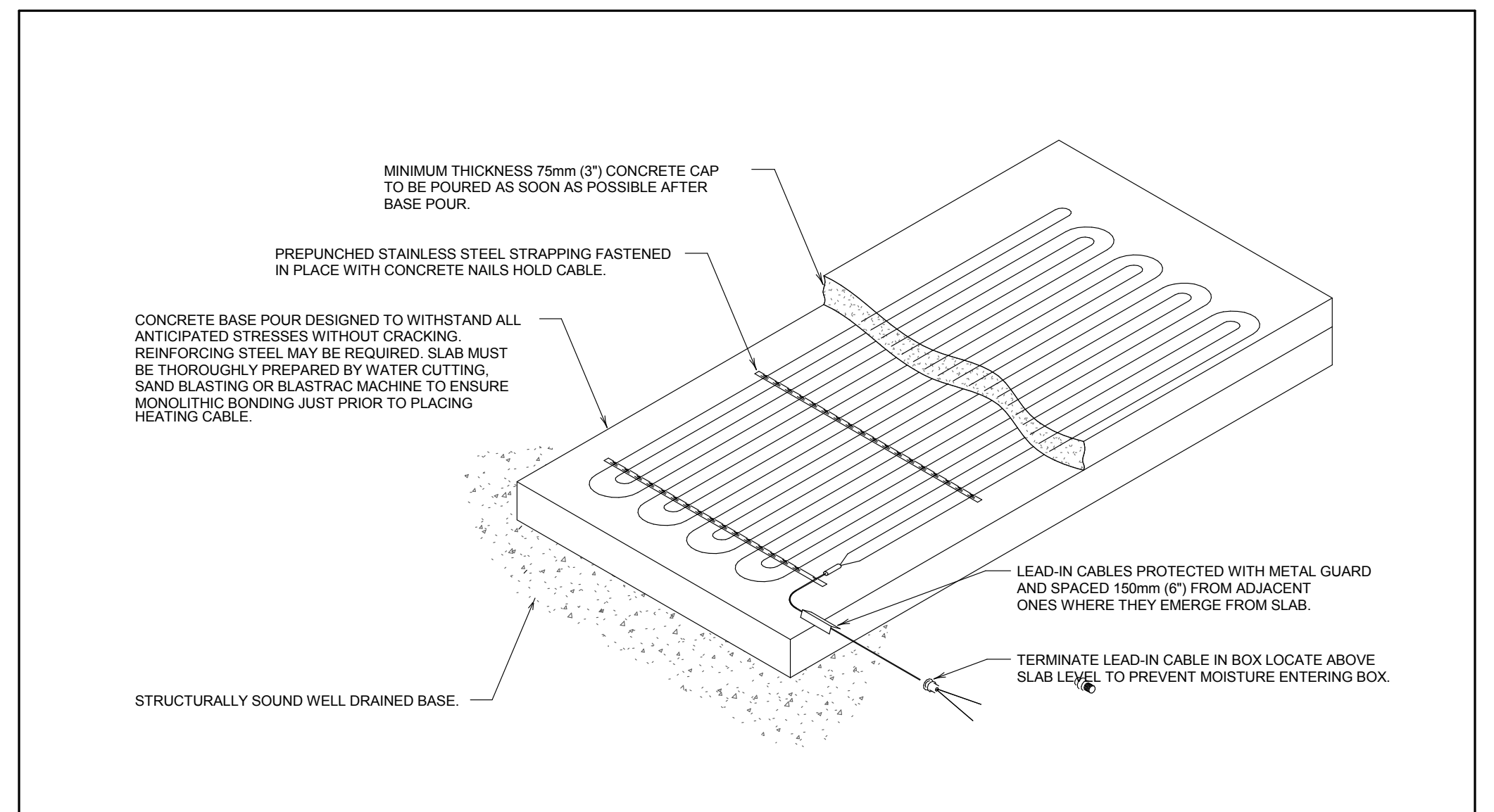
5 HEATING CABLE DETAIL - SNOW MELTING CABLE LAYOUT ON STAIRS
N.T.S.


ASPHALT WEAR COAT MIN 38mm
(1-1/2") THICK AFTER ROLLING
CABLE IN 150mm (6") FROM
EDGE UNLESS CURBS USED
PREPUNCHED STAINLESS STEEL STRAPPING
FASTENED IN PLACE WITH CONCRETE
NAILS HOLDS CABLE.
CONCRETE BASE POUR DESIGNED TO WITHSTAND
ALL ANTICIPATED STRESSES WITHOUT CRACKING.
REINFORCING STEEL MAY BE REQUIRED. SLAB MUST
BE FREE OF DEBRIS AND LAITENCE SUGGEST CLEANING
BY WATER CUTTING, SAND BLASTING OR BLASTROC
MACHINE.
25mm (1") LAYER OF ASPHALT
TEN GUAGE 100mm x 100mm (4"x4") ROAD
MESH OVER CABLE FIRMLY ANCHORED
TO BASE TO PREVENT CABLE RISING.
STRUCTURALLY SOUND WELL DRAINED BASE.
LEAD-IN CABLES PROTECTED WITH METAL GUARD
AND SPACED 150mm (6") FROM ADJACENT
ONES WHERE THEY EMERGE FROM SLAB.

NOTES

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

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


MINIMUM THICKNESS 75mm (3") CONCRETE CAP
TO BE POURED AS SOON AS POSSIBLE AFTER
BASE POUR.
PREPUNCHED STAINLESS STEEL STRAPPING FASTENED
IN PLACE WITH CONCRETE NAILS HOLD CABLE.
CONCRETE BASE POUR DESIGNED TO WITHSTAND ALL
ANTICIPATED STRESSES WITHOUT CRACKING.
REINFORCING STEEL MAY BE REQUIRED. SLAB MUST
BE THOROUGHLY PREPARED BY WATER CUTTING,
SAND BLASTING OR BLASTRAC MACHINE TO ENSURE
MONOLITHIC BONDING JUST PRIOR TO PLACING
HEATING CABLE.
LEAD-IN CABLES PROTECTED WITH METAL GUARD
AND SPACED 150mm (6") FROM ADJACENT
ONES WHERE THEY EMERGE FROM SLAB.
TERMINATE LEAD-IN CABLE IN BOX LOCATE ABOVE
SLAB LEVEL TO PREVENT MOISTURE ENTERING BOX.
STRUCTURALLY SOUND WELL DRAINED BASE.

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.

Contractor Must Check And Verify All Dimensions On The Job.

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Date: 03/06/15

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D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10

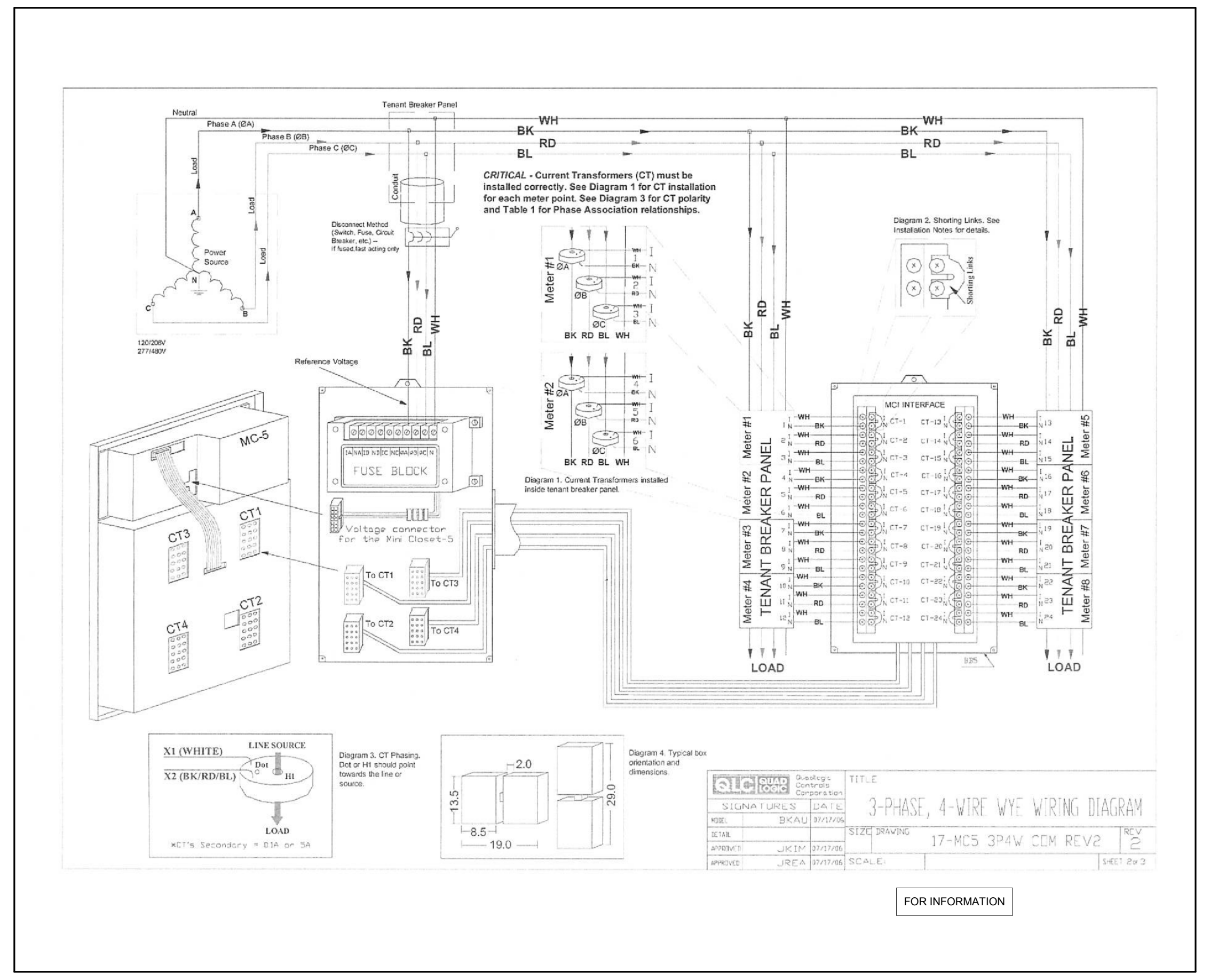
No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

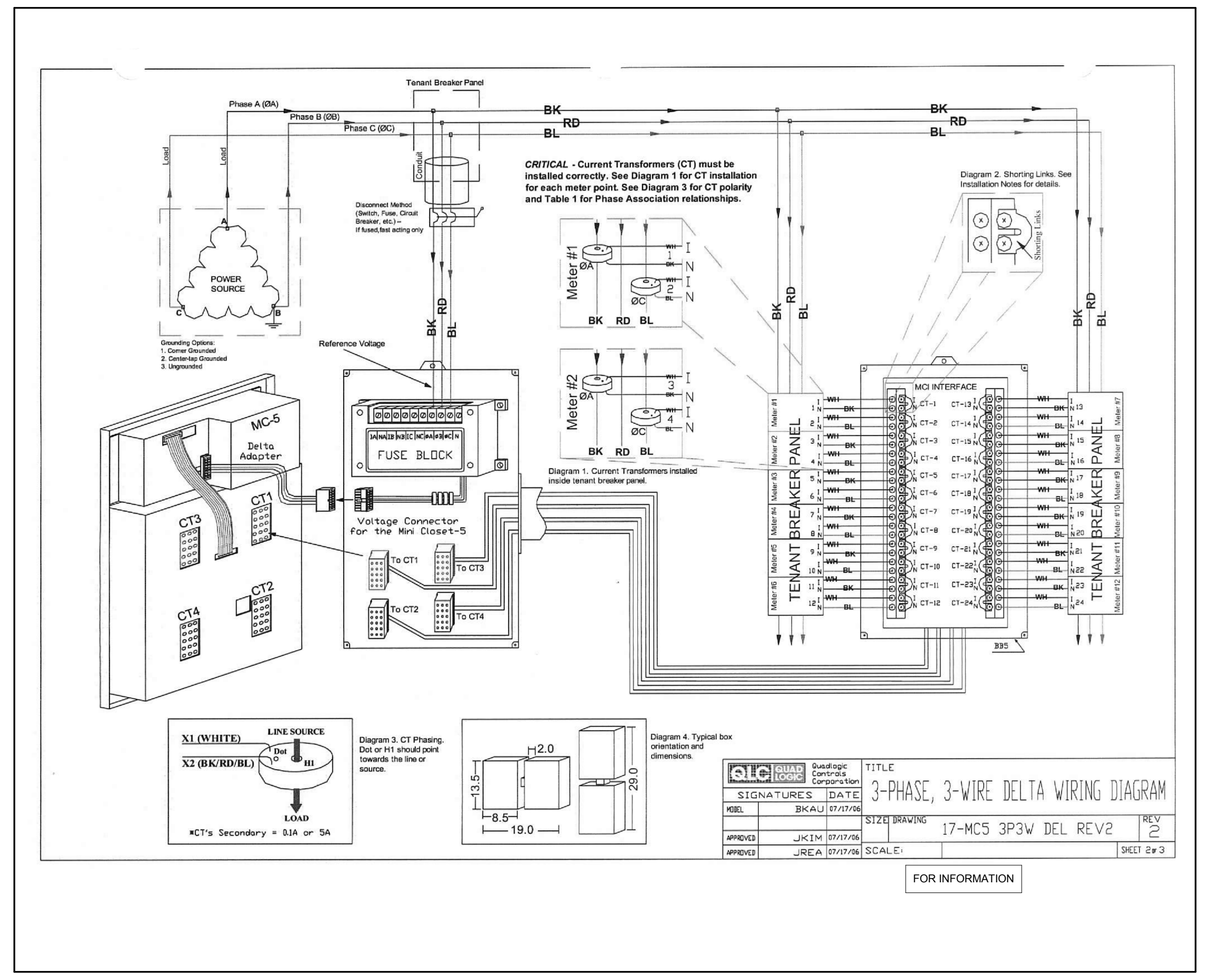
Drawing Title
MISCELLANEOUS
DETAILS - ELECTRICAL

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

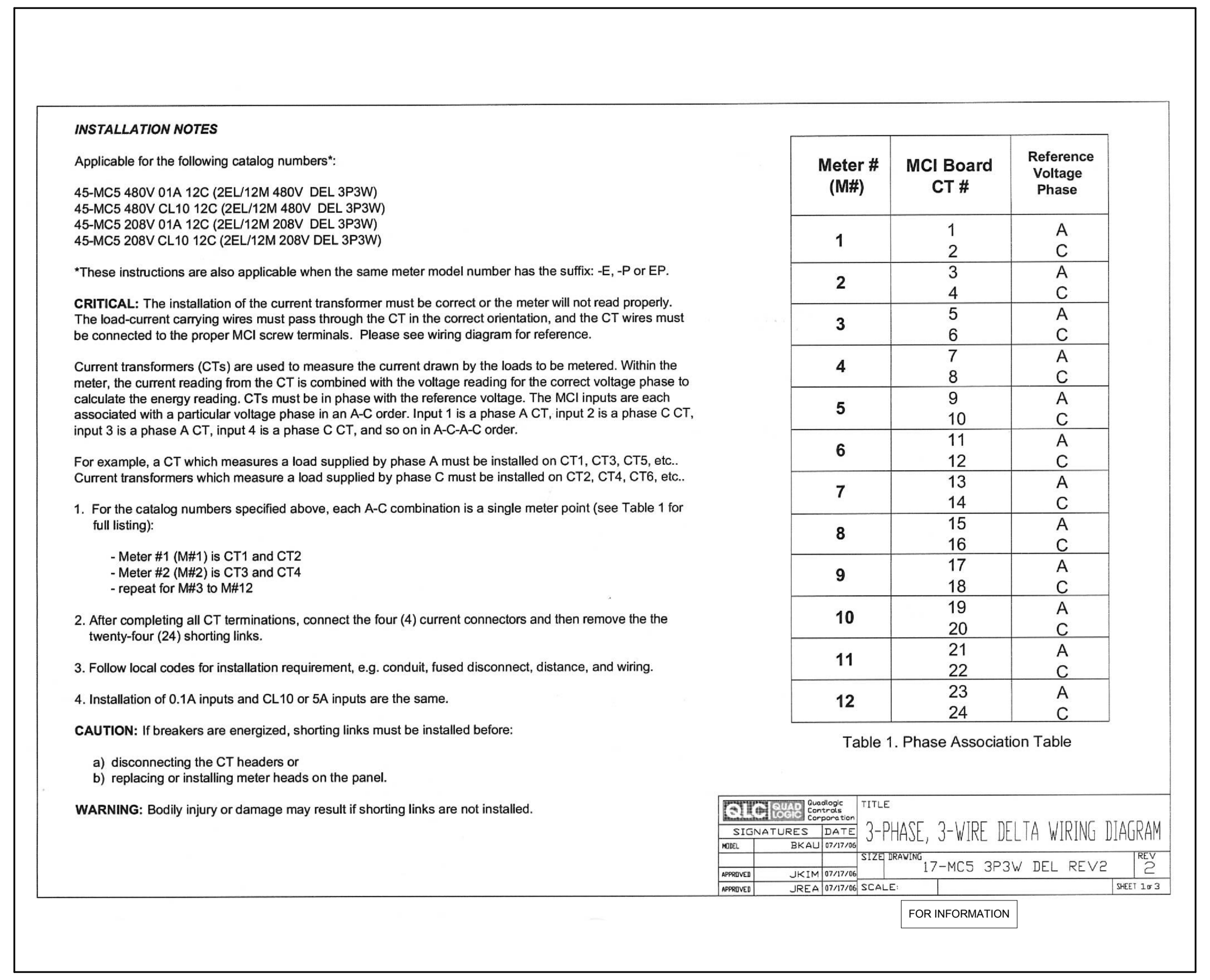
Scale
N.T.S.
Drawn by
Author
Checked by
Checker
Project No.
8489D
Date
03/06/15
Drawing No.
E5-02


FUSE BLOCK
TENANT BREAKER PANEL
LOAD
BK
RD
BL
FOR INFORMATION

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


FUSE BLOCK
TENANT BREAKER PANEL
LOAD
BK
RD
BL
3-PHASE, 3-WIRE DELTA WIRING DIAGRAM
17-MC5 3P3W DEL REV2
FOR INFORMATION

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



INSTALLATION NOTES

Applicable for the following catalog numbers*:

45-MC5 480V 01A 12C (2EL/12M 480V DEL 3P3W)
45-MC5 480V CL10 12C (2EL/12M 480V DEL 3P3W)
45-MC5 208V 01A 12C (2EL/12M 208V DEL 3P3W)
45-MC5 208V CL10 12C (2EL/12M 208V DEL 3P3W)

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

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

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

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

1. For the catalog numbers specified above, each A-C combination is a single meter point (see Table 1 for full listing):
    - Meter #1 (M#1) is CT1 and CT2
    - Meter #2 (M#2) is CT3 and CT4
    - repeat for M#3 to M#12
2. After completing all CT terminations, connect the four (4) current connectors and then remove the the twenty-four (24) shorting links.
3. Follow local codes for installation requirement, e.g. conduit, fused disconnect, distance, and wiring.
4. Installation of 0.1A inputs and CL10 or 5A inputs are the same.

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

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

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

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

Table 1. Phase Association Table

QLC QUAD LOGIC Quadlogic Controls Corporation
TITLE 3-PHASE, 3-WIRE DELTA WIRING DIAGRAM
SIGNATURES DATE
MODEL BKAU 07/17/06
APPROVED JKIM 07/17/06
APPROVED JREA 07/17/06
SIZE DRAWING 17-MC5 3P3W DEL REV2 REV 2
SCALE: SHEET 1 of 3

FOR INFORMATION

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

Project: Aquavista
Electrical Metering Schedule
Revised: November 19, 2015

Item #	Tag	Description	Size (Amps)	Voltage	Fed From	Panel Location
1	EMC-01	Condo 2 Pipe Chiller CHC-01	350	347/600V, 3ph, 4w	SWBD-6RC	P-1 Electrical Room (West Tower)
2	EMC-02	Elevator #7 (Garbage)	125			
3	EMC-03	Elevator #9 (Moving)	125			
4	EMC-04	6P1RCME (Misc Mechanical Equipment - Unit & Cabinet Heaters/Condensers/Split AC/Elevator #12/Exhaust Fans)	200			
5	EMC-05	6P4RCM (Misc Mechanical Equipment)	200			
6	EMC-06	6P1RCM (Misc Mechanical Equipment)	200			
7	EMC-07	6P1RCOD (Outdoor Lighting)	100			
8	EMC-08	6P1RCSM (Snow Melt)	250			
9	EMC-09	6P1RCP (Lighting and steam units)	200			
10	EMC-10	DCW Booster Pumps PC-25 & PC-26	70			
11	EMC-11	Elevator #12	125	347/600V, 3ph, 3w	6P1RCME	P-1 Electrical Room (East Tower)
12	EMC-12	Condenser Water Pumps PC-01 & PC-02	100	347/600V, 3ph, 3w	6P4RCM	P-4 Chiller Room
13	EMC-13	Chilled Water Pumps PC-03 & PC-04	100			
14	EMC-14	Boiler #2 Pump PC-06	15			
15	EMC-15	Boiler #3 Pump PC-07	15			
16	EMC-16	Boiler #4 Pump PC-08	15			
17	EMC-17	Boiler #5 Pump PC-09	15			
18	EMC-18	Boiler #7 Pump PC-21	15			
19	EMC-19	Boiler #8 Pump PC-22	15			
20	EMC-20	DHW Heating Secondary Pumps PC-23 & PC-24	20			
21	EMC-21	Boiler #6 Pump PC-20	15			
22	EMC-22	High Temp Secondary Pumps PC-10 & PC-11	20			
23	EMC-23	Irrigation Pump	15			
24	EMC-24	Make Up Air Unit Supply Fan (MACU-01)	15	347/600V, 3ph, 3w	6P1RCM	P-1 Electrical Room (West Tower)
25	EMC-25	Make Up Air Unit Exhaust Fan (MACU-01)	20			
26	EMC-26	Make Up Air Unit (MACU-02)	40			
27	EMC-27	DHW Recirculation Pump PC-44	15			
28	EMC-28	DHW Recirculation Pump PC-45	15			
29	EMC-29	Pool Splitter SP-6Pool	30			
30	EMC-30	Cooling Tower CTC-01	60	600V, 3ph, 4w	6RRCE	Mech Penthouse (East Tower)
31	EMC-31	Make Up Air Unit MAUC-03	40			
32	EMC-32	2RRCPE (Misc Unit Heaters & Receptacles)	35			
33	EMC-33	2P1RCAL (Lighting)	-	120/208V, 3ph, 4w	2P1RCW	P-1 Electrical Room (West Tower)
34	EMC-34	2P1RCAM (Misc Mechanical Equipment)	100			
35	EMC-35	2P1RCLW (Lighting)	-			
36	EMC-36	2P1RCMW (Misc Mechanical Equipment)	100			
37	EMC-37	2P1RCLE (Lighting)	-			P-1 Electrical Room (East Tower)
38	EMC-38	2P1RCME (Misc Mechanical Equipment)	100			P-1 Electrical Room (West Tower)
39	EMC-39	2RRCPW (Misc Mechanical Equipment)	100			
40	EMC-40	EV Parking #1	20	120/208V, 3ph, 4w	2P1RC-EV	P-1 Electrical Room (East Tower)
41	EMC-41	EV Parking #2	20			
42	EMC-42	EV Parking #3	20			
43	EMC-43	EV Parking #4	20			
44	EMC-44	EV Parking #5	20			
45	EMC-45	EV Parking #6	20			
46	EMC-46	EV Parking #7	20			
47	EMC-47	TX-ERCE3 (Lighting + Misc Mechanical)	90	347/600V, 3ph, 4w	6ERRCE	Mech Penthouse (East Tower)
48	EMC-48	SP-6ERRCE (Elevators #3 & #4)	200			
49	EMC-49	SP-6ERRCW (Elevators #1 & #2)	200			
50	EMC-50	6EP1RCP2 (Misc Mechanical Equipment)	300	347/600V, 3ph, 4w	6EP1RC2	P-1 Electrical Room (West Tower)
51	EMC-51	6E1CR2 (Commercial Retail)	20			
52	EMC-52	6EP1CP2 (Commercial Parking)	100			
53	EMC-53	6EP4RCM (Misc Mechanical Equipment)	300			
54	EMC-54	Domestic Booster Pump PC-27	40	347/600V, 3ph, 3w	6EP1RCP2	P-1 Electrical Room (West Tower)
55	EMC-55	DHW Heating Pumps PC-23 & PC-24	20			
56	EMC-56	Boiler #1 Pump PC-05	15	347/600V, 3ph, 3w	6EP4RCM	P-4 Chiller Room
57	EMC-57	Low Temp Secondary Pumps PC-12 & PC-13	40			
58	EMC-58	2COMM (Tridel CCU)	100	120/208V, 3ph, 4w	SP-2EP1RCP	P-1 Electrical Room (West Tower)
59	EMC-59	6EP1RCP1 (Lighting)	100	347/600V, 3ph, 4w	6EP1RC1	P-1 Electrical Room (East Tower)
60	EMC-60	6EP1RCM (Misc Mechanical Equipment)	100			
61	EMC-61	2EP1RCLW (Lighting)	100	120/208V, 3ph, 4w	2EP1RCPW	P-1 Electrical Room (West Tower)
62	EMC-62	2EP1RCEL (Lighting)	100	120/208V, 3ph, 4w	2EP1RCPE	P-1 Electrical Room (East Tower)

***One 3-Pole, 15A breaker is required (for metering cabinet) for each panel that includes metered points by CTs**

Project: Aquavista
Electrical Metering Schedule
Revised: November 19, 2015

Item #	Tag	Description	Size (Amps)	Voltage	Fed From	Panel Location
63	EMA-01	Artscape 2 Pipe Chiller CHA-01	225	347/600V, 3ph, 4w	SWBD-6RA	P-1 Artscape Electrical Room
64	EMA-02	Elevator #8 (Artscape Moving)	125			
65	EMA-03	6P1MRAM (Misc. Mechanical Equipment)	200			
66	EMA-04	6P1MRAP (Lighting)	100			
67	EMA-05	Domestic Booster Pump PA-15	25			
68	EMA-06	Artscape Cooling Tower CTA-01	25	347/600V, 3ph, 4w	6RRA	Mech Penthouse (Artscape)
69	EMA-07	Artscape Make Up Air Unit MAUA-01	40			
70	EMA-08	TX-RA3 (Misc Mechanical Equipment)	90			
71	EMA-09	6RRA	200			
72	EMA-10	2RRAAL (Lighting)	-	120/208V, 3ph, 4w	2RRAAP	Mech Penthouse (Artscape)
73	EMA-11	2P1MRAL (Lighting)	-	120/208V, 3ph, 4w	6P1RCME	P-1 Artscape Electrical Room
74	EMA-12	2P1MRAM (Misc Mechanical Equipment)	100			
75	EMA-13	2P1MRAPT	200			
76	EMA-14	2P4RAM (Misc Mechanical Equipment)	100			
77	EMA-15	Elevators #5 & #6	200	347/600V, 3ph, 4w	6ERRA1	Mech Penthouse (Artscape)
78	EMA-16	2ERRAL (Lighting)	100	120/208V, 3ph, 4w	2ERRA	?
79	EMA-17	Domestic Booster Pumps PA-16	25	347/600V, 3ph, 4w	SP-6EP1MRA2	P-1 Artscape Electrical Room
80	EMA-18	6EP1MRAP1 (Lighting)	200	347/600V, 3ph, 4w	6EP1MRA1	P-1 Artscape Electrical Room
81	EMA-19	TX-ERA1	90			
82	EMA-20	2EP1MRAL (Lighting)	100	120/208V, 3ph, 4w	2EP1MRAP	P-1 Artscape Electrical Room
83	EMA-21	Condenser Water Pumps PA-01 & PA-02	40	347/600V, 3ph, 3w	6P4RAM	P-4 Chiller Room
84	EMA-22	Cooling/Heating Water Pumps PA-03 & PA-04	25			
85	EMA-23	Boiler #1 Pump PA-05	15			
86	EMA-24	High Temp Secondary Pumps PA-07 & PA-08	15			
87	EMA-25	Boiler #3 Pump PA-11	15			
88	EMA-26	Boiler #4 Pump PA-12	15			
89	EMA-27	DHW Heating Secondary Pump PA-13 & PA-14	15			
90	EMA-28	DHW Recirculation Pump PA-19	15			
91	EMA-29	DHW Recirculation Pump PA-20	15			

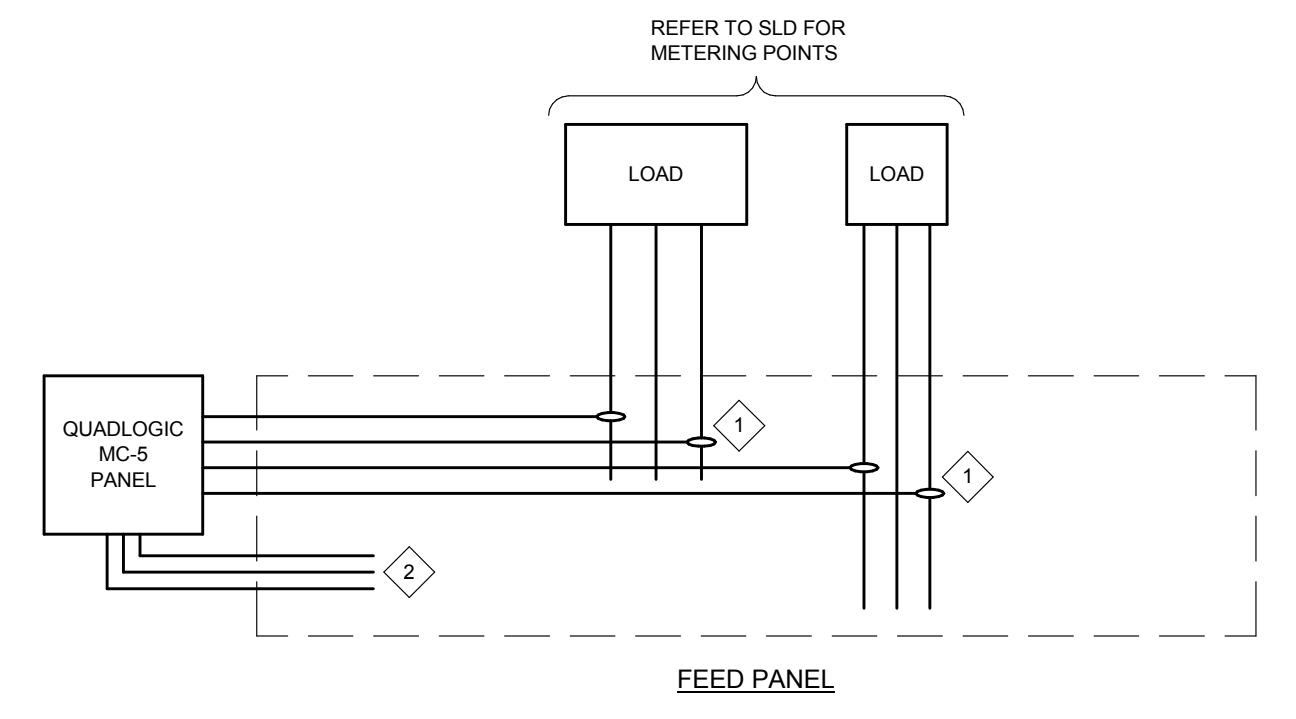
***One 3-Pole, 15A breaker is required (for metering cabinet) for each panel that includes metered points by CTs**

Project: Aquavista
Electrical Metering Schedule
Revised: November 19, 2015

Item #	Tag	Description	Size (Amps)	Voltage	Fed From	Panel Location
92	EMR-01	TX-AIT (Atkin Place Elec Panel)	30	347/600V, 3ph, 4w	SWBD-6CR	P-1 Retail Electrical Room
93	EMR-02	TX-PSL (Private Street Lighting)	30			
94	EMR-03	Retail Chiller CHR-01	250			
95	EMR-04	6P1MCRP (Lighting & Snow Melt)	200			
96	EMR-05	TX-CR2	-			
97	EMR-06	61MCRM (Misc Mech Equipment)	200			
98	EMR-07	Retail Make Up Air Unit MAUR-1	40	347/600V, 3ph, 4w	61MCRM	P-1 Retail Electrical Room
99	EMR-08	Retail Condenser Water Pumps PR-01 & PR-02	40			
100	EMR-09	Retail Chilled Water Pumps PR-03 & PR-04	25			
101	EMR-10	Retail Boiler #1 Pump	15			
102	EMR-11	Retail Boiler #2 Pump	15			
103	EMR-12	Retail High Temp Secondary Pumps PR-07 & PR-08	20			
104	EMR-13	Retail Low Temp Secondary Pumps PR-09 & PR-10	15			
105	EMR-14	DHW Recirculation Pump PR-15	15			
106	EMR-15	Retail Cooling Tower CTR-01	35			
107	EMR-16	21MCRM (Misc Mechanical Equipment)	200	120/208, 3ph, 4w	21MCR	?
108	EMR-17	6E1MCRP1 (Lighting)	100	347/600V, 3ph, 4w	6E1MCR	P-1 Retail Electrical Room
109	EMR-18	TX-ECR1	-		6E1MCRP1	
110	EMR-19	TX-CP1 (2P1CPM - Misc Mechanical Equipment)	35	347/600V, 3ph, 4w	SWBD-6CP	P-1 Retail Electrical Room
111	EMR-20	6P1CPP (Lighting)	90			
112	EMR-21	TX-CP2 (2P1CP1)	-			
113	EMR-22	Retail EV Parking #1	40	120/208V, 3ph, 3w	2P1CP-EV	P-1 Commercial Parking Electrical Room
114	EMR-23	Retail EV Parking #2	40			
115	EMR-24	6EP1CPP1 (Lighting)	100	347/600V, 3ph, 4w	6EP1CP	P-1 Commercial Parking Electrical Room
116	EMR-25	TX-ECP1	-			
117	EMR-26	Elevators #10 & #11	200			

***One 3-Pole, 15A breaker is required (for metering cabinet) for each panel that includes metered points by CTs**

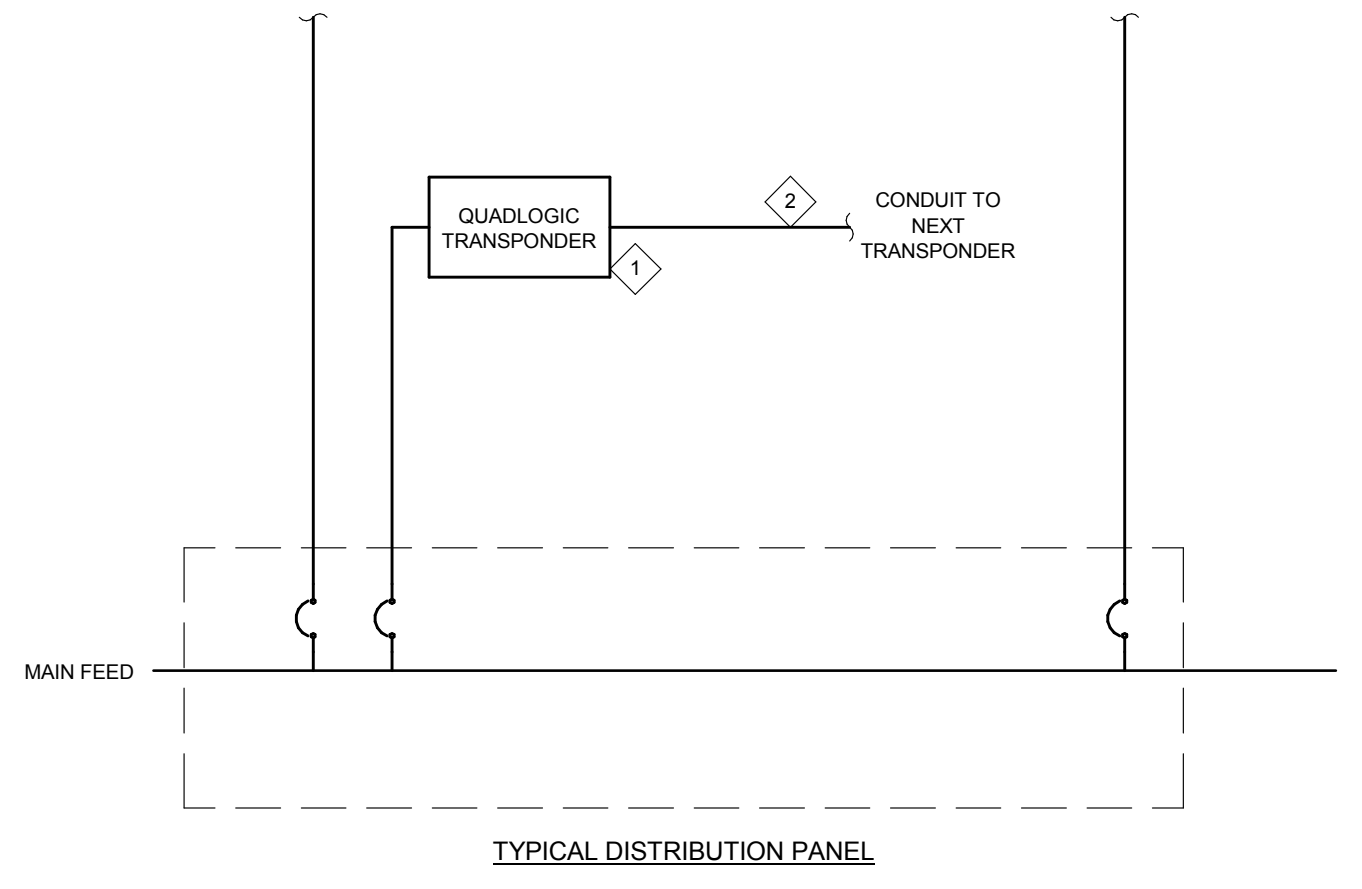
5 METER SCHEDULES
N.T.S


REFER TO SLD FOR METERING POINTS
LOAD
LOAD
QUADLOGIC MC-5 PANEL
1
2
FEED PANEL

NOTES:

1. SOLID CORE CTs TO BE SUPPLIED BY METRING CONTRACTOR, INSTALLED WITHIN PANEL BY DIVISION 16. EACH PIECE OF EQUIPMENT REQUIRES 2-CT'S PER LOAD, CTs TO BE WIRED TO QUADLOGIC PANEL. QUADLOGIC PANEL SUPPLIED BY METRING CONTRACTOR, ALL INSTALLATION BY DIVISION 16.
2. PROVIDE DEDICATED 15A/600V FUSED DISCONNECT FOR QUADLOGIC PANEL POWER AND SIGNAL, 3#14AWG

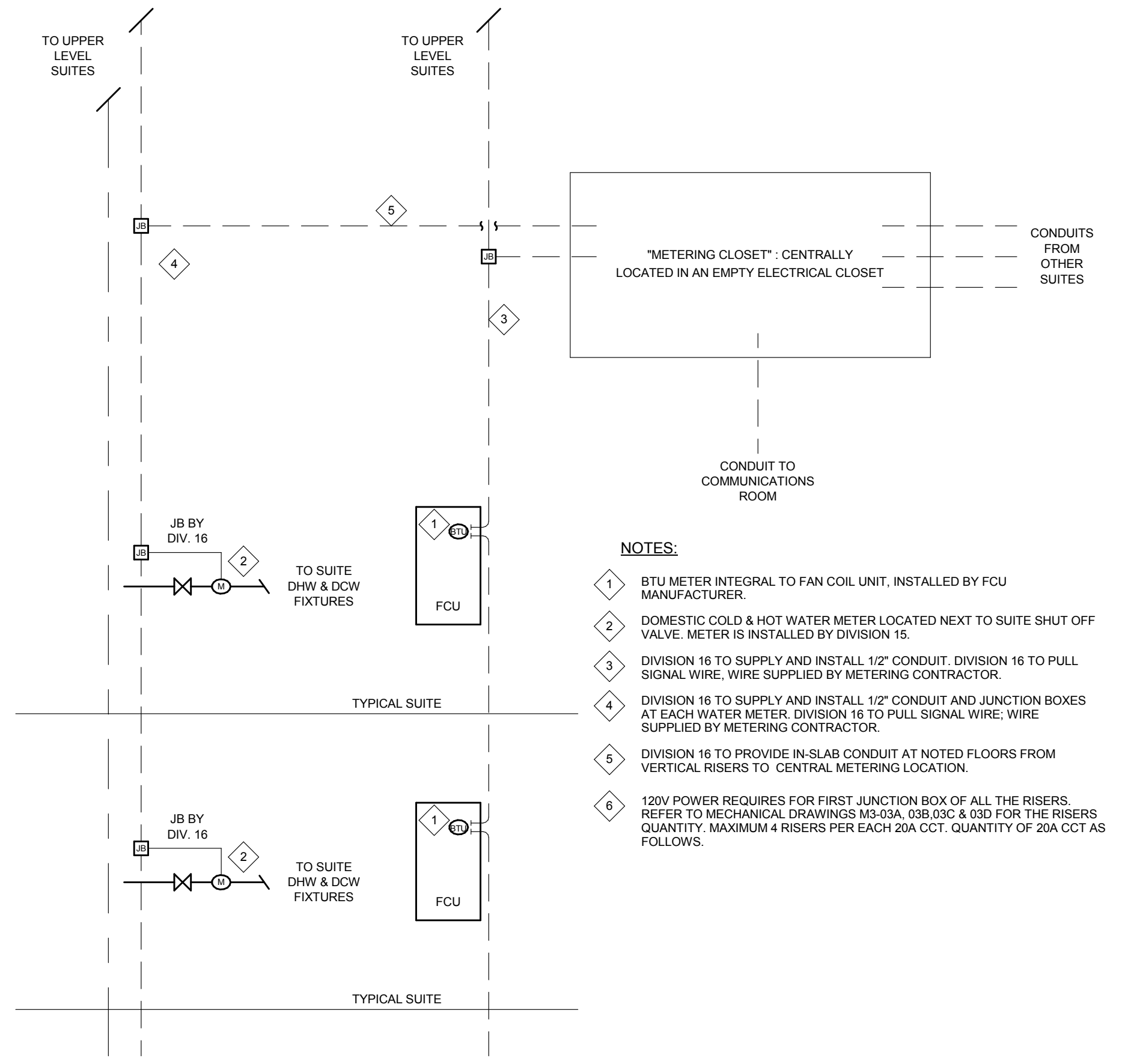
4 TYPICAL MECHANICAL EQUIPMENT METERING DETAIL
N.T.S


QUADLOGIC TRANSPONDER
1
2
CONDUIT TO NEXT TRANSPONDER
MAIN FEED
TYPICAL DISTRIBUTION PANEL

NOTES:

1. TRANSPONDER FOR METERING DATA COLLECTION FOR LEED PURPOSES, SUPPLIED BY METERING CONTRACTOR, INSTALLED BY DIVISION 16.
2. DIVISION 16 TO PROVIDE 4-CONDUCTOR RS-485 CABLE (BELDEN 9842 OR EQUAL) WITHIN 1" EMT CONDUIT. CONDUIT SUPPLIED BY THIS CONTRACTOR. ALL TRANSPONDERS IN BUILDING TO BE DAISY CHAINED.

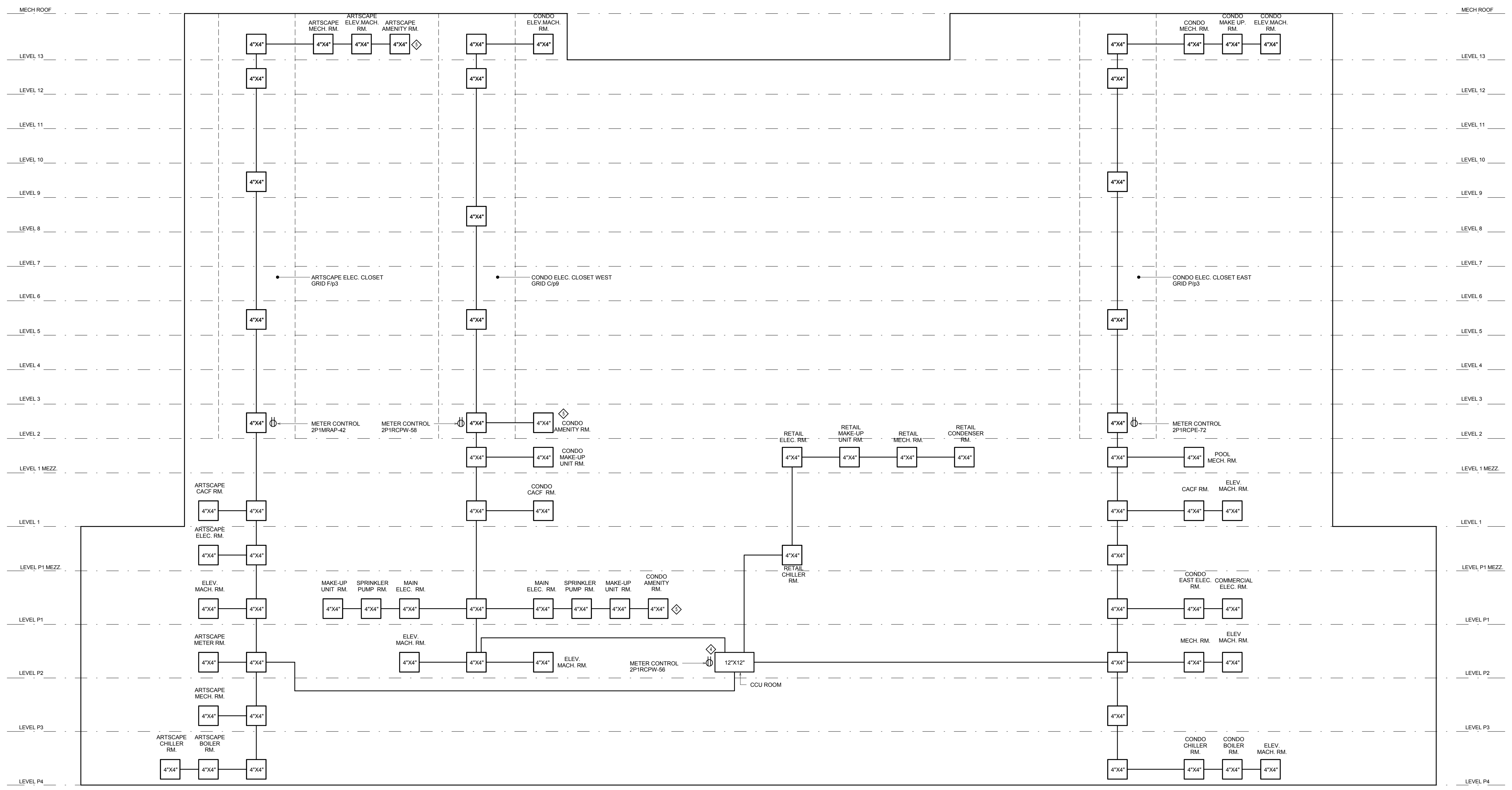
3 TYPICAL QUADLOGIC TRANSPONDER DETAIL
N.T.S


TO UPPER LEVEL SUITES
TO UPPER LEVEL SUITES
"METERING CLOSET" - CENTRALLY LOCATED IN AN EMPTY ELECTRICAL CLOSET
CONDUITS FROM OTHER SUITES
CONDUIT TO COMMUNICATIONS ROOM
JB BY DIV. 16
TO SUITE DHW & DCW FIXTURES
BTU
FCU
TYPICAL SUITE
JB BY DIV. 16
TO SUITE DHW & DCW FIXTURES
BTU
FCU
TYPICAL SUITE

NOTES:

1. BTU METER INTEGRAL TO FAN COIL UNIT, INSTALLED BY FCU MANUFACTURER.
2. DOMESTIC COLD & HOT WATER METER LOCATED NEXT TO SUITE SHUT OFF VALVE. METER IS INSTALLED BY DIVISION 15.
3. DIVISION 16 TO SUPPLY AND INSTALL 1/2" CONDUIT. DIVISION 16 TO PULL SIGNAL WIRE, WIRE SUPPLIED BY METERING CONTRACTOR.
4. DIVISION 16 TO SUPPLY AND INSTALL 1/2" CONDUIT AND JUNCTION BOXES AT EACH WATER METER. DIVISION 16 TO PULL SIGNAL WIRE; WIRE SUPPLIED BY METERING CONTRACTOR.
5. DIVISION 16 TO PROVIDE IN-SLAB CONDUIT AT NOTED FLOORS FROM VERTICAL RISERS TO CENTRAL METERING LOCATION.
6. 120V POWER REQUIRES FOR FIRST JUNCTION BOX OF ALL THE RISERS. REFER TO MECHANICAL DRAWINGS M3-03A, 03B,03C & 03D FOR THE RISERS QUANTITY. MAXIMUM 4 RISERS PER EACH 20A CCT. QUANTITY OF 20A CCT AS FOLLOWS.

2 TYPICAL SUITE WATER/BTU METERING DETAIL
N.T.S


MECH ROOF
LEVEL 13
LEVEL 12
LEVEL 11
LEVEL 10
LEVEL 9
LEVEL 8
LEVEL 7
LEVEL 6
LEVEL 5
LEVEL 4
LEVEL 3
LEVEL 2
LEVEL 1 MEZZ.
LEVEL 1
LEVEL P1 MEZZ.
LEVEL P1
LEVEL P2
LEVEL P3
LEVEL P4
4"X4"
ARTSCAPE MECH. RM.
ARTSCAPE ELEV. MACH. RM.
ARTSCAPE AMENITY RM.
CONDO ELEV. MACH. RM.
CONDO MECH. RM.
CONDO MAKE UP UNIT RM.
CONDO ELEV. MACH. RM.
ARTSCAPE ELEC. CLOSET GRID F/p3
CONDO ELEC. CLOSET WEST GRID C/p6
CONDO ELEC. CLOSET EAST GRID J/p3
METER CONTROL 2P1MRAP-42
METER CONTROL 2P1RCPW-58
CONDO AMENITY RM.
METER CONTROL 2P1RCPE-72
CONDO MAKE-UP UNIT RM.
RETAIL ELEC. RM.
RETAIL MAKE-UP UNIT RM.
RETAIL MECH. RM.
RETAIL CONDENSER RM.
POOL MECH. RM.
CONDO CACF RM.
ARTSCAPE CACF RM.
ARTSCAPE ELEC. RM.
CACF RM.
ELEV. MACH. RM.
RETAIL CHILLER RM.
ELEV. MACH. RM.
MAKE-UP UNIT RM.
SPRINKLER PUMP RM.
MAIN ELEC. RM.
MAIN ELEC. RM.
SPRINKLER PUMP RM.
MAKE-UP UNIT RM.
CONDO AMENITY RM.
CONDO EAST ELEC. RM.
COMMERCIAL ELEC. RM.
ARTSCAPE METER RM.
ELEV. MACH. RM.
ELEV. MACH. RM.
METER CONTROL 2P1RCPW-58
12"X12"
CCU ROOM
MECH. RM.
ELEV MACH. RM.
ARTSCAPE MECH. RM.
ARTSCAPE CHILLER RM.
ARTSCAPE BOILER RM.
CONDO CHILLER RM.
CONDO BOILER RM.
ELEV. MACH. RM.

NOTES:

1. PROVIDE PULL STRINGS IN ALL CONDUITS.
2. CONTROLS EQUIPMENT AND INSTALLATION BY METERING CONTRACTOR.
3. NO BX CABLE TO BE USED.
4. METERING CENTER REQUIRES 460mm(H)X610mm(W) (18"X24") WALL SPACE, 120V POWER AND JUCTION BOX.
5. PROVIDE JUNCTION BOX FOR EACH AMENITY ROOM.

1 ENERGY MANAGEMENT SYSTEM & METERING RISER DIAGRAM
N.T.S

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

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Date: 03/06/15

8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10

No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
MISCELLANEOUS
DETAILS - ELECTRICAL

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

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

REGISTERS, GRILLES AND DIFFUSERS SCHEDULE

REF.	FUNCTION	CONFIGURATION	MANUFACTURER	MODEL NUMBER	MOUNTING TYPE	REMARKS
A	SUPPLY AIR	LOUVERED FACE DIFFUSER	E.H. PRICE	- /520D /F /L /A /B12	DUCT MOUNTED / SIDEWALL	REFER TO PLANS FOR NECK SIZE
B	RETURN / EXHAUST AIR	LOUVERED FACE DIFFUSER	E.H. PRICE	- /530D /F /L /A /B12	DUCT MOUNTED	REFER TO PLANS FOR NECK SIZE
C	SUPPLY AIR	SQUARE CONE DIFFUSER	E.H. PRICE	600x600 /SCD /31 /3C / B12	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
D	SUPPLY AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /AS210 /1 /22 /ZY /-	DRYWALL / SIDEWALL	c/w PLENUM - /ASP210 /1 /-
E	SUPPLY AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JS210 /1 /25 /ZY /-	DRYWALL / SIDEWALL	c/w PLENUM - /JSP210 /1 /-
F	RETURN AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /AS210 /1 /25 /ZY /-	DRYWALL / SIDEWALL	-
G	RETURN AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JS210 /1 /25 /ZY /-	DRYWALL / SIDEWALL	-
H	RETURN AIR	EGG CRATE	E.H. PRICE	- /80 /TB /B12 [- /80 /A /B12]	T-BAR [DRYWALL]	NON-DUCTED, COLOUR = APPLIANCE WHITE
J	SUPPLY AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JS215 /1 /22 /ZY /-	DRYWALL / SIDEWALL	c/w PLENUM - /JSP215 /1 /-
K	RETURN AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JS215 /1 /22 /ZY /-	DRYWALL / SIDEWALL	-
L	SUPPLY AIR	PERFORATED DIFFUSER	E.H. PRICE	- /- /PDS /1 /B12	DRYWALL	SMOKE VENT, REFER TO PLANS FOR DIFFUSER & NECK SIZES
M	RETURN AIR	PERFORATED DIFFUSER	E.H. PRICE	- /- /PDR /1 /B12	DRYWALL	SMOKE EXHAUST, REFER TO PLANS FOR DIFFUSER & NECK SIZES
N	SUPPLY AIR	SQUARE CONE DIFFUSER	E.H. PRICE	300x300 /SCD /31 /3C / B12	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
O	RETURN AIR	2 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JS225 /2 /63 /B12	T-BAR [DRYWALL]	

SYMBOL CLARIFICATION

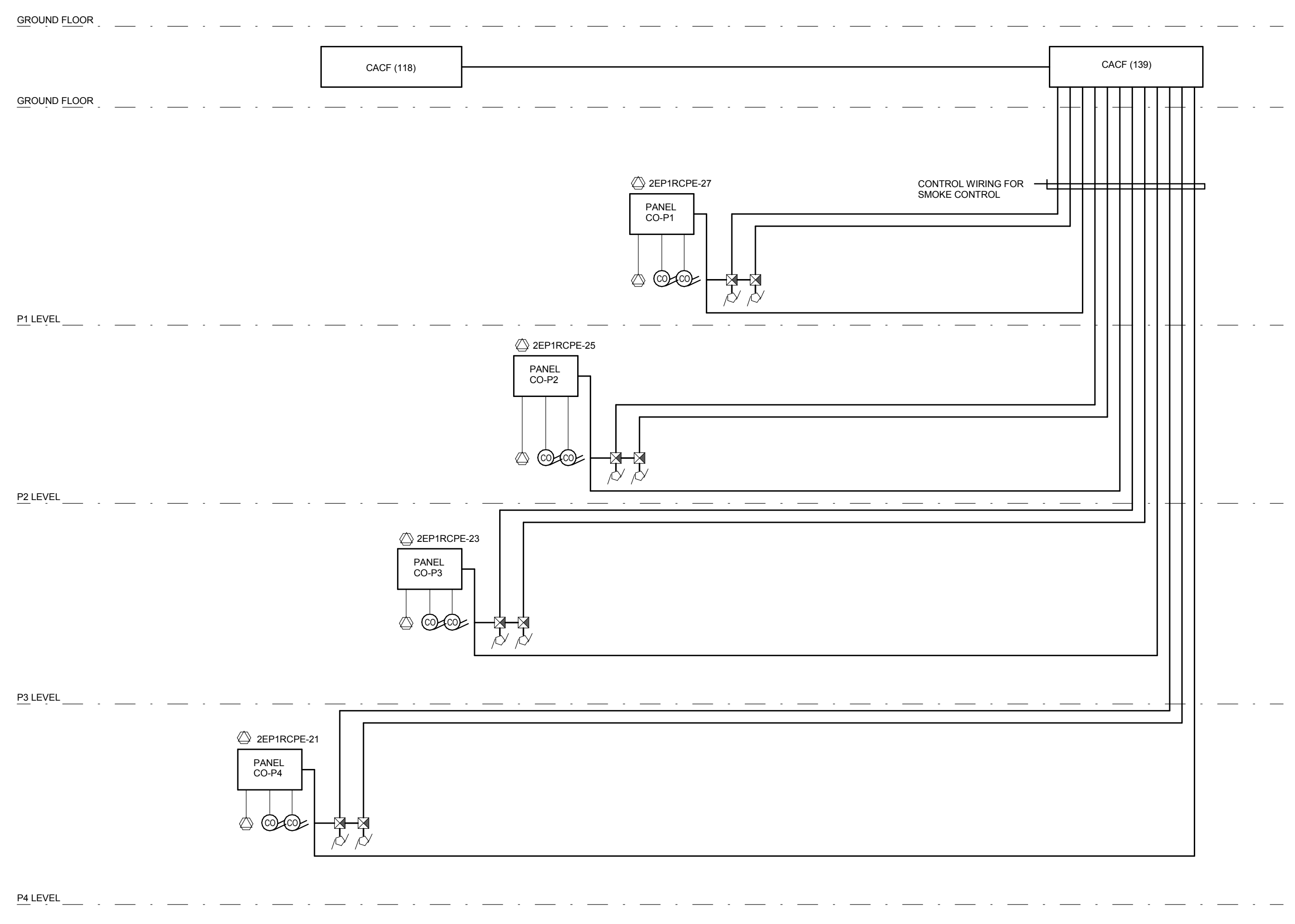
C-600x600-500

C - DIFFUSER/GRILLE TYPE
600x600 - GRILLE SIZE
500 - AIR QUANTITY L/S

** ALL SUPPLY GRILLES, DIFFUSERS, AND REGISTERS TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE INDICATED.

6 Registers and diffusers

1 : 1


GROUND FLOOR
CACF (118)
CACF (139)
GROUND FLOOR
2EP1RCPE-27
PANEL CO-P1
CONTROL WIRING FOR SMOKE CONTROL
CO
CO
P1 LEVEL
2EP1RCPE-25
PANEL CO-P2
P2 LEVEL
2EP1RCPE-23
PANEL CO-P3
P3 LEVEL
2EP1RCPE-21
PANEL CO-P4
P4 LEVEL

PARKING GARAGE C.O. SYSTEM RISER

NOTES:

1. INTERCONNECTING CONDUITS FOR CO OUTLETS BY DIV.15.
2. CONTROL WIRING TO CACF FOR FAN CONTROL BY DIV.16.
3. CONTROL WIRING FOR C.O. PANEL, ON FLOOR DAMPER AND ON FLOOR DETECTOR BY DIV.15
4. CO-ORDINATE ALL WORK ON SITE BETWEEN DIV.15 AND DIV.16.
5. DIV. 15 TO PROVIDE ALL GARAGE DAMPERS AS FAIL OPEN.

5 PARKING GARAGE C.O. SYSTEM RISER

NTS.

600V, 3 PHASE MOTOR SIZING DATA FOR STARTER

MOTOR		COMBINATION MAGNETIC STARTER				VFD	UNF. DISC. SW. AT MOTOR AMPS	FEEDER & WIRING				REMARKS:
								POWER FEEDER		MIN. CONDUIT SIZE		
HP	FLA	SIZE	TYPE	CLASS `J' TIME DELAY FUSE AMPS	BREAKER AMPS (HACR RATED)	FAST ACTING SWITCH / FUSE SIZE AMPS		MIN. AMPS	MIN. WIRE SIZE	(INCH)	(mm)	
1/2	0.9	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
3/4	1.3	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
1	1.7	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
1 1/2	2.4	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
2	2.7	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
3	3.9	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
5	6.1	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
7 1/2	9	1	FVNR	30/15	20	30/25	30	15	3 # 12	1/2"	12	
10	11	1	FVNR	30/15	25	30/30	30	15	3 # 12	1/2"	12	
15	17	2	FVNR	30/25	40	60/50	30	22	3 # 10	1/2"	12	
20	22	2	FVNR	60/35	50	60/60	60	28	3 # 10	1/2"	12	
25	27	2	FVNR	60/45	70	100/80	60	34	3 # 8	3/4"	20	
30	32	3	FVNR	60/50	80	100/90	60	40	3 # 8	3/4"	20	
40	41	3	FVNR	100/70	100	200/125	100	52	3 # 6	1"	25	
50	52	3	FVNR	100/90	125	200/150	100	65	3 # 6	1"	25	
60	62	4	RVNR	200/110	100	200/175	200	78	3 # 4	1"	25	
75	77	4	RVNR	200/125	150	400/225	200	97	3 # 3	1 1/4"	32	
80	82	4	RVNR	200/125	150	400/225	200	103	3 # 2	1 1/4"	32	
100	99	4	RVNR	200/175	250	400/300	200	124	3 # 1	1 1/4"	32	
200	192	5	RVNR	400/300	350	600/500	400	240	3 #250MCM	2 1/2"	65	

GENERAL NOTES:

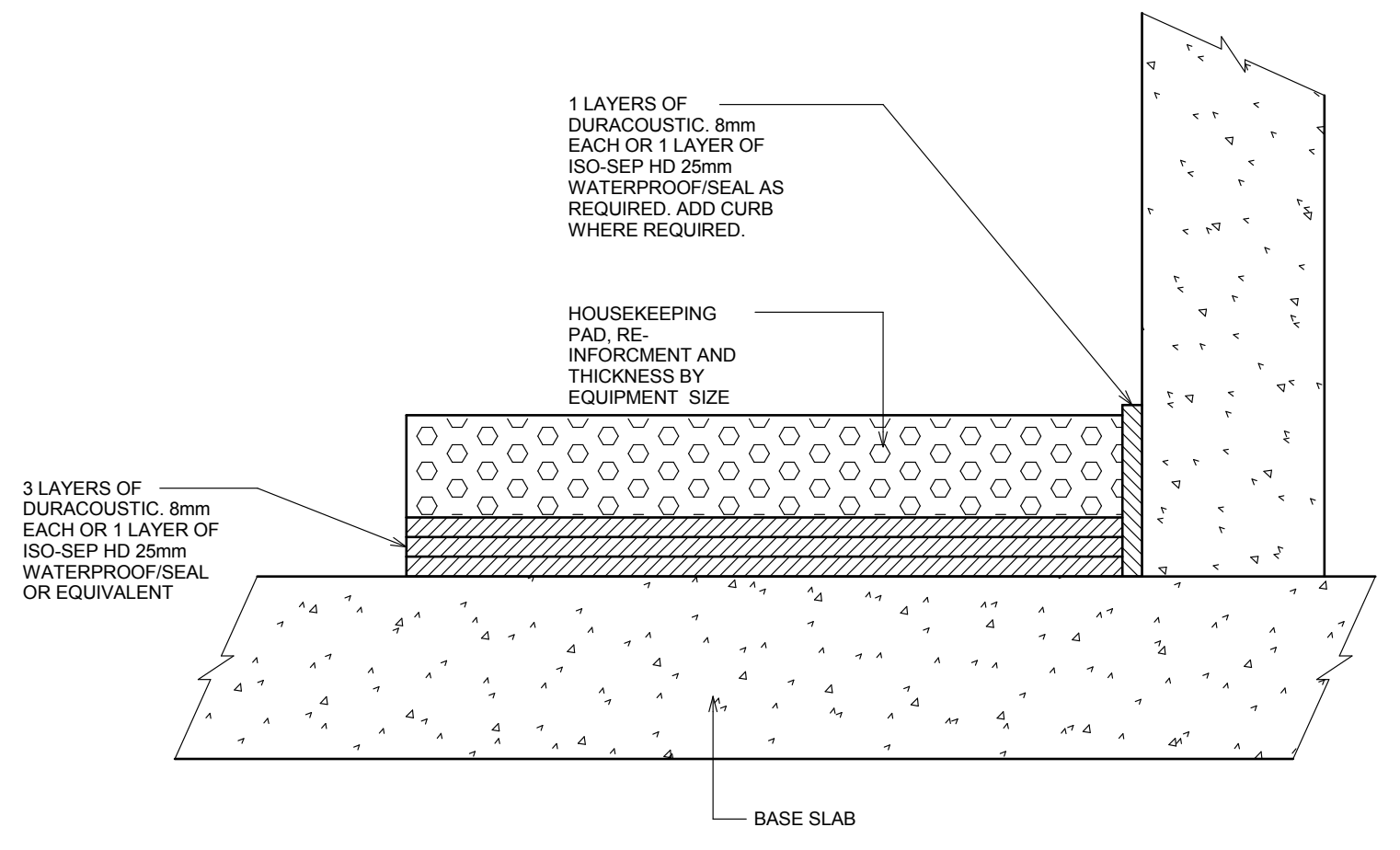
1. SIZE OF FUSE BASED ON BUSSMAN `J' DUAL ELEMENT TIME DELAY FUSES
2. PROVIDE MANUAL STARTERS FOR ALL 120V MOTORS TO SUIT.
3. ALL STARTERS AND/OR DISCONNECT SWITCHES LOCATED IN THE PARKING LEVELS SHALL BE MOUNTED BEHIND A LOCKABLE, KEYED ALIKE, SEE-THROUGH COVER. PROVIDE A MINIMUM 10 KEYS.
4. ALL WIRE SIZES ARE BASED ON COPPER.

STARTER TYPES:

FVNR - FULL VOLTAGE NON REVERSING
RVNR - REDUCED VOLTAGE NON REVERSING
PCK - PACKAGED: SUPPLIED WITH EQUIPMENT
2SSW - TWO (2) SPEED SINGLE WINDING:
NOTE: PROVIDE 6 WIRES ON THE LOAD SIDE OF THE STARTER
SSMC - SOFT START MOTOR CONTROLLERS
RV-SS - DENOTES REDUCED VOLTAGE / SOFT START STARTERS

4 600V, 3 PHASE MOTOR SIZING DATA FOR STARTER1

NTS.

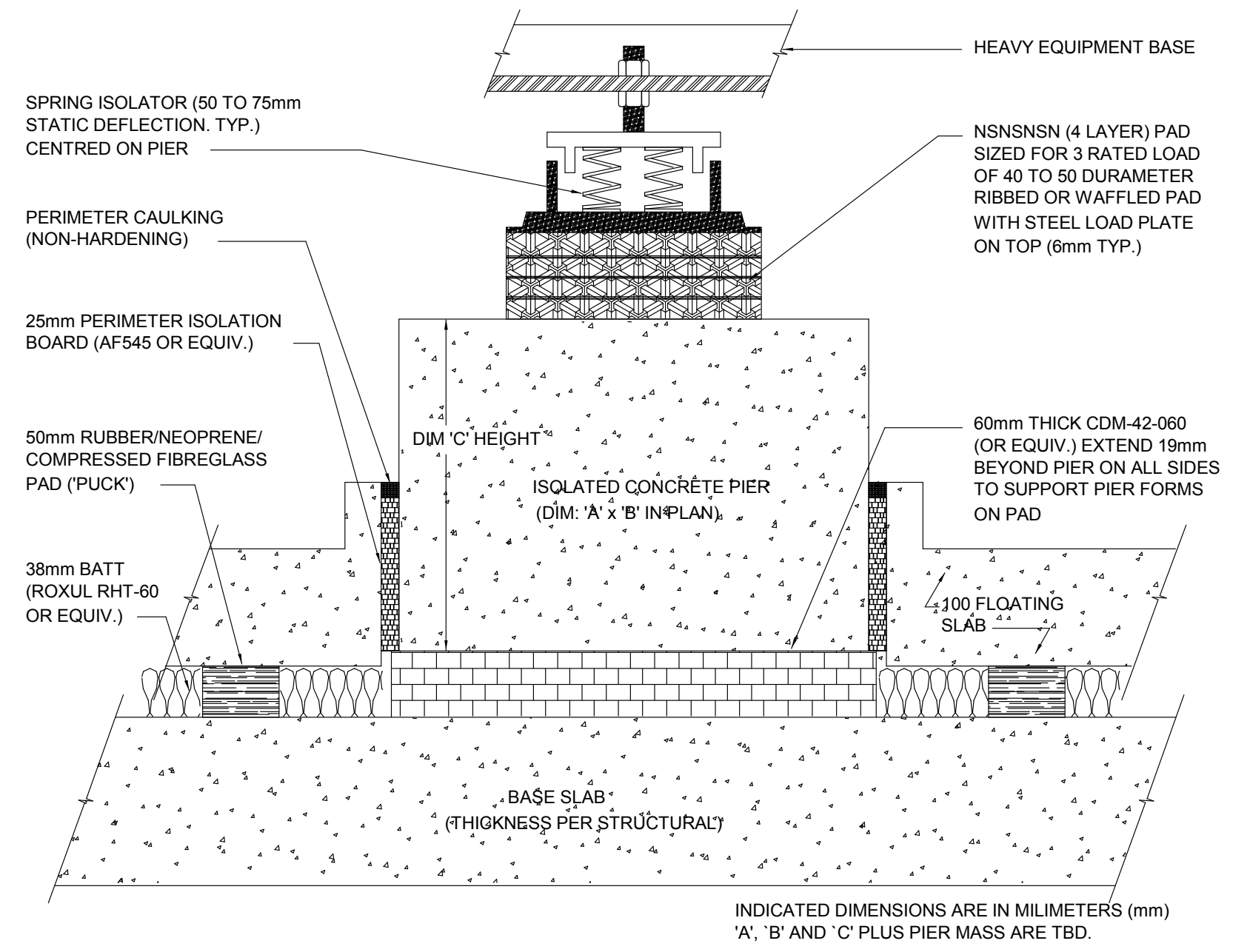

1 LAYERS OF DURACOUSTIC. 8mm EACH OR 1 LAYER OF ISO-SEP HD 25mm WATERPROOF/SEAL AS REQUIRED. ADD CURB WHERE REQUIRED.
HOUSEKEEPING PAD, RE-INFORCMENT AND THICKNESS BY EQUIPMENT SIZE
3 LAYERS OF DURACOUSTIC. 8mm EACH OR 1 LAYER OF ISO-SEP HD 25mm WATERPROOF/SEAL OR EQUIVALENT
BASE SLAB

HIGH VOLTAGE TRANSFORMER/
FLOOR MOUNTED LOW VOLTAGE TRANSFORMER (ABOVE 100KVA)

NOTES:
THIS DETAIL IS APPLICABLE TO ENTIRE BUILDING IF NECESSARILY.

3 ISOLATED HOUSEKEEPING PAD

N.T.S.

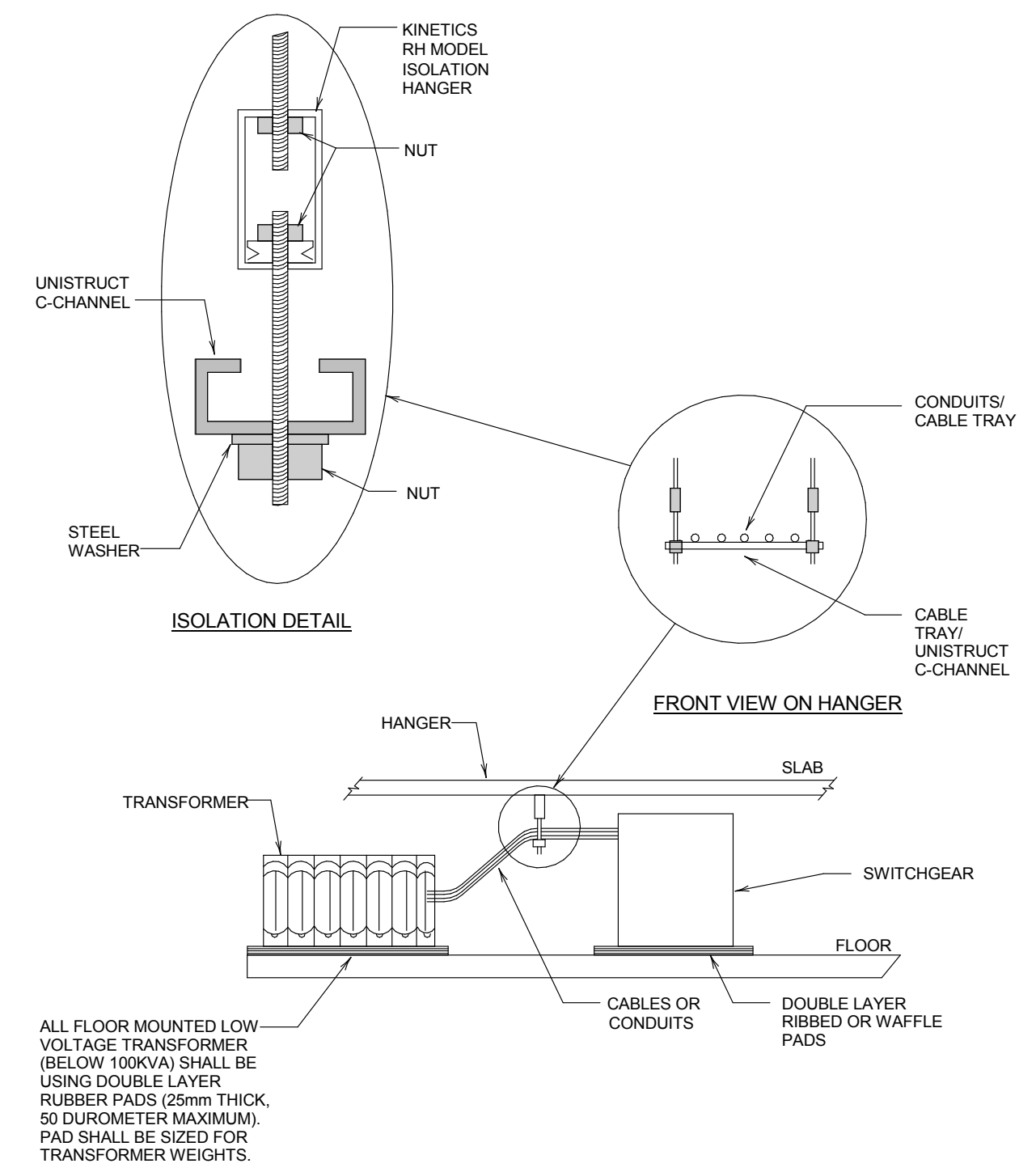

HEAVY EQUIPMENT BASE
SPRING ISOLATOR (50 TO 75mm STATIC DEFLECTION. TYP.) CENTRED ON PIER
NSNSNSN (4 LAYER) PAD SIZED FOR 3 RATED LOAD OF 40 TO 50 DURAMETER RIBBED OR WAFFLED PAD WITH STEEL LOAD PLATE ON TOP (6mm TYP.)
PERIMETER CAULKING (NON-HARDENING)
25mm PERIMETER ISOLATION BOARD (AF545 OR EQUIV.)
50mm RUBBER/NEOPRENE/ COMPRESSED FIBREGLASS PAD ('PUCK')
DIM 'C' HEIGHT
ISOLATED CONCRETE PIER (DIM: 'A' x 'B' IN PLAN)
60mm THICK CDM-42-060 (OR EQUIV.) EXTEND 19mm BEYOND PIER ON ALL SIDES TO SUPPORT PIER FORMS ON PAD
38mm BATT (ROXUL RHT-60 OR EQUIV.)
100 FLOATING SLAB
BASE SLAB (THICKNESS PER STRUCTURAL)

INDICATED DIMENSIONS ARE IN MILIMETERS (mm)
'A', `B' AND `C' PLUS PIER MASS ARE TBD.

NOTES:
THIS DETAIL IS APPLICABLE TO ENTIRE BUILDING IF NECESSARILY.

2 FLOATING FLOOR WITH ISOLATED MOUNTING OF HEAVY EQUIPMENT ON VIBRATION ISOLATOR

N.T.S.


KINETICS RH MODEL ISOLATION HANGER
NUT
UNISTRUCT C-CHANNEL
NUT
STEEL WASHER
ISOLATION DETAIL
CONDUITS/ CABLE TRAY
CABLE TRAY/ UNISTRUCT C-CHANNEL
FRONT VIEW ON HANGER
HANGER
SLAB
TRANSFORMER
SWITCHGEAR
FLOOR
CABLES OR CONDUITS
DOUBLE LAYER RIBBED OR WAFFLE PADS
ALL FLOOR MOUNTED LOW VOLTAGE TRANSFORMER (BELOW 100KVA) SHALL BE USING DOUBLE LAYER RUBBER PADS (25mm THICK, 50 DUROMETER MAXIMUM). PAD SHALL BE SIZED FOR TRANSFORMER WEIGHTS.

2

NOTES:
THIS DETAIL IS APPLICABLE TO ENTIRE BUILDING IF NECESSARILY.

1 NOISE REDUCTION HOUSEKEEPING PAD AND SUPPORT HANGERS

N.T.S.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

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Date: 10/08/15

8489D
D. C. M. BELLAMY

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ADD M-001	2015/10/30
2	ISSUED FOR ADD E-001	2015/12/10
3	ADD M-002	2015/XX/XX

No	Issued For	Date
3		
2		
1	ISSUED FOR TENDER	2015-10-15

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - EQUIPMENT SCHEDULES #5

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

Scale: N.T.S.
Drawn by: S.J.
Checked by: Checker
Project No.: 8489D
Date: 10/08/15
Drawing No.: ME-15

N