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PIPING VALVES

GATE VALVE
BALL VALVE
BUTTERFLY VALVE
GLOBE VALVE
ANGLE GLOBE VALVE
BALANCING VALVE
CONTROL BALANCING VALVE
PLUG VALVE
THREE-WAY VALVE
TWO-WAY CONTROL VALVE
THREE-WAY CONTROL VALVE
NEEDLE VALVE
CHECK VALVE
ALARM CHECK VALVE
PRESSURE REDUCING VALVE
PRESSURE REGULATING VALVE
PRESSURE REGULATING VALVE
RELIEF OR SAFETY VALVE
RELIEF OR SAFETY VALVE
RELIEF OR SAFETY VALVE
SEASONAL CHANGE OVER VALVE
CHANGE OVER VALVE
MOTOR CONTROL VALVE
STRAINER
STRAINER w/ BALL VALVE
STRAINER w/ GATE VALVE
AIR VALVE
BACK FLOW PREVENTER
SINGLE GAS SUPPLY VALVE
DOUBLE GAS SUPPLY VALVE
GEAR OPERATED MANUAL VALVE
SOLENOID OPERATING VALVE
LOCK SHIELD

SINGLE LINE GAUGES

TS TEMPERATURE SENSOR
PS PRESSURE SENSOR
FS FLOW SENSOR
TEMPERATURE GAUGE
PRESSURE GAUGE
PRESSURE GAUGE
AV AIR VENT
AIR VENT
THE ENERGY MANAGEMENT SYSTEM (EMS) THERMOWELL

PLUMBING & DRAINAGE

ROOF DRAIN
FLOOR DRAIN
FLOOR DRAIN
HUB DRAIN
FUNNEL DRAIN
CATCH BASIN
SCUPPER DRAIN
CLEAN OUT PLUG
CLEAN OUT FLOOR
TRAP

SINGLE LINE PIPE FITTINGS

CONTINUATION
PIPE CAP
TEE
TEE UP
TEE DOWN
90 DEGREE ELBOW
45 DEGREE ELBOW
ELBOW UP
ELBOW DOWN
BOTTOM BRANCH
TOP BRANCH
PIPE TRANSITION
FLOW ARROW

STEAM VALVES & GAUGES

FLOW & REGULATING VALVE
HAND WHEEL RISE STEM VALVE
VACUUM BREAKER
INVERTED BUCKET STEAM TRAP
FT FLOAT AND THERMOSTATIC STEAM TRAP
THERMOSTATIC STEAM BIMETAL AND BELLOWS
TH THERMODYNABIC STEAM TRAP
VARIABLE ORIFICE STEAM TRAP
SIGHT GLASS
FIXED ORIFICE STEAM TRAP

MISCELLANEOUS - PIPING

PUMP
M METER
M METER
METER
FLANGE
SCREWED UNION
HOSE BIBB
FLEX CONNECTION
EXPANSION COMPENSATOR
THRUST BLOCK
HEAT TRACE
FUEL OIL FILTER STRAINER
DEMOLITION 'X'
PIPE INSULATION

PLUMBING FIXTURES

TANK WC
WALL WC (FLUSH VALVE)
FLOOR WC (FLUSH VALVE)
URINAL
SERVICE SINK / LAUNDRY TUB
SINGLE BOWL SINK
DOUBLE BOWL SINK
WALL HUNG LAVATORY
COUNTER MOUNT LAVATORY
WASH FOUNTAIN
WALL HUNG HANDICAPPED SINK
DRINKING FOUNTAIN
EMERGENCY EYEWASH
BATHTUB
SHOWER

PIPING DESIGNATIONS

DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRCULATION
SAN	SANITARY DRAIN ABOVE
SAN	SANITARY DRAIN BELOW
SD	STORM DRAIN ABOVE
SD	STORM DRAIN BELOW
V	VENT
AW	ACID WASTE
AV	ACID VENT
WT	WEEPING TILE
NPW	NON-POTABLE WATER
CA	COMPRESSED AIR
G	LOW PRESSURE GAS
MG	MEDIUM PRESSURE GAS
HG	HIGH PRESSURE GAS
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOF	FUEL OIL FILL
FOV	FUEL OIL VENT
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
H/C S	DUAL TEMPERATURE SUPPLY
H/C R	DUAL TEMPERATURE RETURN
HPWS	HEAT PUMP WATER SUPPLY
HPWR	HEAT PUMP WATER RETURN
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CTWS	COOLING TOWER WATER SUPPLY
CTWR	COOLING TOWER WATER RETURN
ST (HRI)	STEAM (w/ DETAIL)
LPS	LOW PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
HPS	HIGH PRESSURE STEAM
LPC	LOW PRESSURE STEAM CONDENSATE
MPC	MEDIUM PRESSURE STEAM CONDENSATE
HPC	HIGH PRESSURE STEAM CONDENSATE
CD	CONDENSATE DRAIN
PC	PUMPED CONDENSATE DRAIN
BBD	BOILER BLOW DOWN
BFW	BOILER FEED WATER

DUCTWORK

SUPPLY AIR FLOW ARROW
RETURN/EXHAUST AIR FLOW ARROW
SUPPLY/OUTSIDE AIR DUCT UP
SUPPLY/OUTSIDE AIR DUCT DOWN
RETURN AIR DUCT UP
RETURN AIR DUCT DOWN
EXHAUST AIR DUCT UP
EXHAUST AIR DUCT DOWN
RECTANGULAR DUCT
ROUND DUCT
MITERED ELBOW - RECTANGULAR DUCT
BEVELED THROAT ELBOW - RECTANGULAR DUCT
45° RADIUS ELBOW - RECTANGULAR DUCT
45° RADIUS ELBOW - ROUND DUCT
90° RADIUS ELBOW - RECTANGULAR DUCT
90° RADIUS ELBOW - ROUND DUCT
FLEX DUCT
TAKE OFF CONNECTION
SPIN-IN CONNECTION
EXTERNALLY INSULATED DUCTWORK
INTERNALLY LINED DUCTWORK
SQUARE TO ROUND DUCT TRANSITION
TYP SQUARE DIFFUSER
TYP LINEAR BAR GRILLE
TYP LINEAR S/R DIFFUSER w/ PLENUM
TYP NON DUCTED LINEAR RETURN DIFFUSER
CENTRIFUGAL FAN
PARALLEL BLADE CONTROL DAMPER
OPPOSED BLADE CONTROL DAMPER
FD FIRE DAMPER
BD BALANCING DAMPER
THERMOSTAT
HUMIDISTAT
CO CARBON MONOXIDE SENSOR
CO2 CARBON DIOXIDE SENSOR

FIRE PROTECTION

UPRIGHT SPRINKLER
CONCEALED SPRINKLER
DRY PENDENT SPRINKLER
PENDENT SPRINKLER
RECESSED SPRINKLER
PRE-ACTION SPRINKLER
SIDEWALL SPRINKLER
WINDOW SPRINKLER
FIRE HOSE CABINET
SURFACE FIRE EXTINGUISHER
CABINET FIRE EXTINGUISHER
SUPERVISED VALVE
POST INDICATOR VALVE
FIRE DEPT. PUMPER CONNECTION
FIRE DEPT. TEST CONNECTION
FIRE HYDRANT
WET SYSTEM ALARM VALVE
DRY SYSTEM ALARM VALVE
PRE-ACTION SYSTEM ALARM VALVE
FSP FIRE STANDPIPE
F WET SPRINKLER LINE
F - DRY DRY SPRINKLER LINE

HVAC DESIGNATIONS

S/A	SUPPLY AIR
O/A	OUTSIDE AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
MD	MOTORIZED DAMPER
FD	FIRE DAMPER
BD	BALANCING DAMPER
FSD	SMOKE & FIRE DAMPER
SA	SOUND ATTENUATOR
AP	ACCESS PANEL
AS	AIR SEPARATOR
SAV	SUPPLY AIR VALVE
EAV	EXHAUST AIR VALVE
F	AIR FILTER
FTR	FINNED TUBE RADIATOR
BBH	BASEBOARD HEATER
PRV	PRESSURE REDUCING VALVE
SRV	SAFETY RELIEF VALVE
CC-	COOLING COIL
HC-	HEATING COIL
RHC	REHEAT COIL
SC	STEAM COIL
H-	HUMIDIFIER
SL-	SILENCER
CF-	CEILING FAN
ACU-	AIR CONDITIONING UNIT
AHU-	AIR HANDLING UNIT
RTU-	ROOF TOP UNIT
MAU-	MAKE UP AIR UNIT
HRU-	HEAT RECOVERY UNIT
HVU-	HEATING & VENTILATING UNIT
HRW-	HEAT RECOVERY WHEEL
HRV-	HEAT RECOVERY VENTILATOR
ERV-	ENERGY RECOVERY VENTILATOR
FCU-	FAN COIL UNIT
VFC-	VERTICAL FAN COIL UNIT
HFC-	HORIZONTAL FAN COIL UNIT
CAV-	CONSTANT AIR VOLUME TERMINAL UNIT
VAV-	VARIABLE AIR VOLUME TERMINAL UNIT
SF-	SUPPLY FAN
RAF-	RETURN AIR FAN
EX-	EXHAUST FAN
CUH-	CABINET UNIT HEATER
UH-	UNIT HEATER
EH-	ENTRANCE HEATER
CH-	CHILLER
CT-	COOLING TOWER
FC-	FLUID COOLER
EFC-	EVAPORATIVE FAN COOLER
CP-	CONDENSATE PUMP
P-	PUMP
ET-	EXPANSION TANK
HX-	HEAT EXCHANGER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE

DRAWING LIST

DWG NO.	DRAWING NAME	SCALE	WATERFRONT TORONTO REVIEW 2015-05-01	BUILDING PERMIT SUBMISSION 2015-06-12
M0-00	MECHANICAL SYMBOL LEGEND. DRAWING LIST & GENERAL NOTES	N.T.S.	•	•
M0-01	SITE PLAN - MECHANICAL	1:200	•	•
M1-00	FOUNDATION & LEVEL P4 FLOOR PLANS MECHANICAL	1:100	•	•
M1-01	LEVEL P3 & LEVEL P2 FLOOR PLANS MECHANICAL	1:100	•	•
M1-02	LEVEL P1 & LEVEL P1 MEZZANINE FLOOR PLANS - MECHANICAL	1:100	•	•
M2-01A	LEVEL 1 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-01B	LEVEL 1 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-02A	LEVEL 1 MEZZANINE FLOOR PLAN NORTH MECHANICAL	1:50	•	•
M2-02B	LEVEL 1 MEZZANINE FLOOR PLAN SOUTH MECHANICAL	1:50	•	•
M2-03A	LEVEL 2 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-03B	LEVEL 2 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-04A	LEVEL 3 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-04B	LEVEL 3 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-05A	LEVEL 4-5 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-05B	LEVEL 4-5 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-06A	LEVEL 6 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-06B	LEVEL 6 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-07A	LEVEL 7 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-07B	LEVEL 7 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-08A	LEVEL 8 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-08B	LEVEL 8 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-09A	LEVEL 9 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-09B	LEVEL 9 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-10A	LEVEL 10 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-10B	LEVEL 10 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-11A	LEVEL 11 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-11B	LEVEL 11 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-12A	LEVEL PH1 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-12B	LEVEL PH1 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-13A	LEVEL PH2 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•
M2-13B	LEVEL PH2 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•
M2-14A	ROOF PLAN NORTH - MECHANICAL	1:50	•	•
M2-14B	ROOF PLAN SOUTH - MECHANICAL	1:50	•	•
M3-01	NOT USED			
M4-01	STORM SCHEMATIC	N.T.S.		•
M4-02	NATURAL GAS SCHEMATIC	N.T.S.	•	•
M4-03	AIR DISTRIBUTION SCHEMATICS	N.T.S.	•	•
M4-11	CONDO - HEATING & COOLING SCHEMATIC	N.T.S.	•	•
M4-12A	CONDO - FAN COIL RISER DIAGRAM	N.T.S.		
M4-13	CONDO - DOMESTIC WATER RISER DIAGRAM	N.T.S.	•	•
M4-14A	CONDO - DOMESTIC WATER RISER DIAGRAM	N.T.S.		
M4-15A	CONDO - SANITARY RISER DIAGRAM	N.T.S.		
M4-21	ARTSCAPE - HEATING & COOLING SCHEMATIC	N.T.S.	•	•
M4-22A	ARTSCAPE - FAN COIL RISER DIAGRAM	N.T.S.		
M4-23	ARTSCAPE - DOMESTIC WATER SCHEMATIC	N.T.S.	•	•
M4-24A	ARTSCAPE - DOMESTIC WATER RISER DIAGRAM	N.T.S.		
M4-25A	ARTSCAPE - SANITARY RISER DIAGRAM	N.T.S.		
ME-11	CONDO - EQUIPMENT SCHEDULES #1	N.T.S.	•	•
ME-12	CONDO - EQUIPMENT SCHEDULES #2	N.T.S.	•	•
ME-13	CONDO - EQUIPMENT SCHEDULES #3	N.T.S.		
ME-14	CONDO - EQUIPMENT SCHEDULES #4	N.T.S.		
ME-21	ARTSCAPE - EQUIPMENT SCHEDULES #1	N.T.S.	•	•
ME-22	ARTSCAPE - EQUIPMENT SCHEDULES #2	N.T.S.	•	•
ME-31	RETAIL - EQUIPMENT SCHEDULES #1	N.T.S.	•	•
ME-32	RETAIL - EQUIPMENT SCHEDULES #2	N.T.S.		

DRAWING SYMBOLS

X — SECTION NUMBER
X - X — SHEET NUMBER

X — DETAIL NUMBER
X - X — SHEET NUMBER

NOTES

GENERAL NOTES:

ALL EQUIPMENT AND MATERIALS LOCATED IN ANY CONCEALED SPACE USED AS A PLENUM FOR AIR HANDLING SYSTEMS SHALL CONFORM TO THE REQUIREMENTS OF ONTARIO BUILDING CODE, SECTION 3.6.4.3

THE POTABLE WATER SYSTEM SHALL BE PROTECTED AGAINST BACK SIPHONAGE FROM ANY MACHINERY OR EQUIPMENT BY A CERTIFIED CANCOM BAK-10 M BACKFLOW PREVENTER AS PER THE ONTARIO BUILDING CODE SUBSECTION 7.6.2.

ALL DOMESTIC WATER MANIFOLDS AND ALL IN-SLAB DOMESTIC WATER PIPING TO BE SIZED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ALL PIPING AND FITTINGS INSTALLED MATERIALS TO BE INSTALLED IN COMPLIANCE WITH THE ONTARIO BUILDING CODE.

FOR PIPE OFF-SETS (e.g., WASHROOMS LOCATED ABOVE SENSITIVE AREAS, etc.) PROVIDE 25mm (1") THICK FIBERGLASS, COVERED WITH 24ga. ALUGALV. TO SANITARY OR STORM ELBOWS FROM DRAINS OR PIPES ABOVE AND THE FIRST 1.5m (5'-0") OF HORIZONTAL RUN AFTER THE ELBOW.

TRANSITE PIPES FOR HORIZONTAL STORM DRAINS ARE NOT ALLOWED TO BE INSTALLED IN FINISHED AND SENSITIVE AREAS. MUST USE CAST IRON, VICTAULIC GALVANIZED IRON PIPES.

PROVIDE BALANCING DAMPERS AT BRANCH DUCTS.

PROVIDE FIRE DAMPERS ON ALL DUCTWORK THAT PENETRATE THROUGH FIRE RATED WALL PARTITIONS.

ALL PIPE ANCHORS, EXPANSION JOINTS AND PIPE GUIDES TO BE INSTALLED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE REQUIREMENTS OF THE LOCAL MUNICIPALITY.

COMPLETE VENTING SYSTEM INCLUDING SIZING AND TERMINAL POINTS TO BE PROVIDED AND INSTALLED BY CONTRACTOR IN COMPLIANCE WITH THE ONTARIO BUILDING CODE

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

TYPICAL EQUIPMENT DUCT SIZES:

LAUNDRY DRYER
- 150mm (6") DIAMETER AND THE LAST 1500mm (5'-0") FROM OUTSIDE WALL MUST BE 200mm (8") DIAMETER INCLUDING 25mm THICK THERMAL INSULATION.

KITCHEN BOOSTER FAN
- 150mm (6") DIAMETER AND THE LAST 1500mm (5'-0") FROM OUTSIDE WALL MUST BE 200mm (8") DIAMETER INCLUDING 25mm THICK THERMAL INSULATION.

ENERGY RECOVERY VENTILATOR - ERV
- ALL FOUR (4) DUCTS IN/OUT OF UNITS ARE 150mm (6") DIAMETER
- THE LAST 1500mm (5'-0") FROM OUTSIDE WALL MUST BE 200mm DIAMETER INCLUDING 25mm THICK THERMAL INSULATION AND EXHAUST DUCT IS 200mm (8") DIAMETER INCLUDING 25mm THICK THERMAL INSULATION FOR THE LAST 1500mm (5'-0") FROM OUTSIDE WALL
- ERV UNITS TO BE LOCATED IN MECHANICAL ROOMS ONLY. ERV UNITS AND ASSOCIATED CONTROLLERS (IF REQUIRED) MUST BE LOCATED INSIDE SECONDARY WASHROOM OR POWDER ROOM.

SUITES SIDEWALL SUPPLY AIR DIFFUSERS:

- ALL SIDEWALL SUPPLY AIR DIFFUSERS MUST BE INSTALLED AS HIGH AS POSSIBLE. TOP SIDE OF SIDEWALL DIFFUSERS MUST BE MAXIMUM 150mm BELOW FINISHED CEILING OR BULKHEADS.

HAZARD/GROUP DESIGNATION:

ASTERISK ADJACENT TO ROOM NUMBER INDICATES COVERAGE, ALL OTHER AREAS TO BE PROVIDED AT 1 PER 232 SQ. M. AVERAGE WITH A MAXIMUM SQUARE FOOT COVERAGE PER HEAD OF 278 (3000 SQ. M.)

* — ORDINARY HAZARD GROUP 1
** — ORDINARY HAZARD GROUP 2

ALL FIRE EXTINGUISHER TO BE TYPE 3A-10BC

Contractor Must Check And Verify All Dimensions On The Job.
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Date: 12/08/09

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Daughtry Battersby Tsai Saint John

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

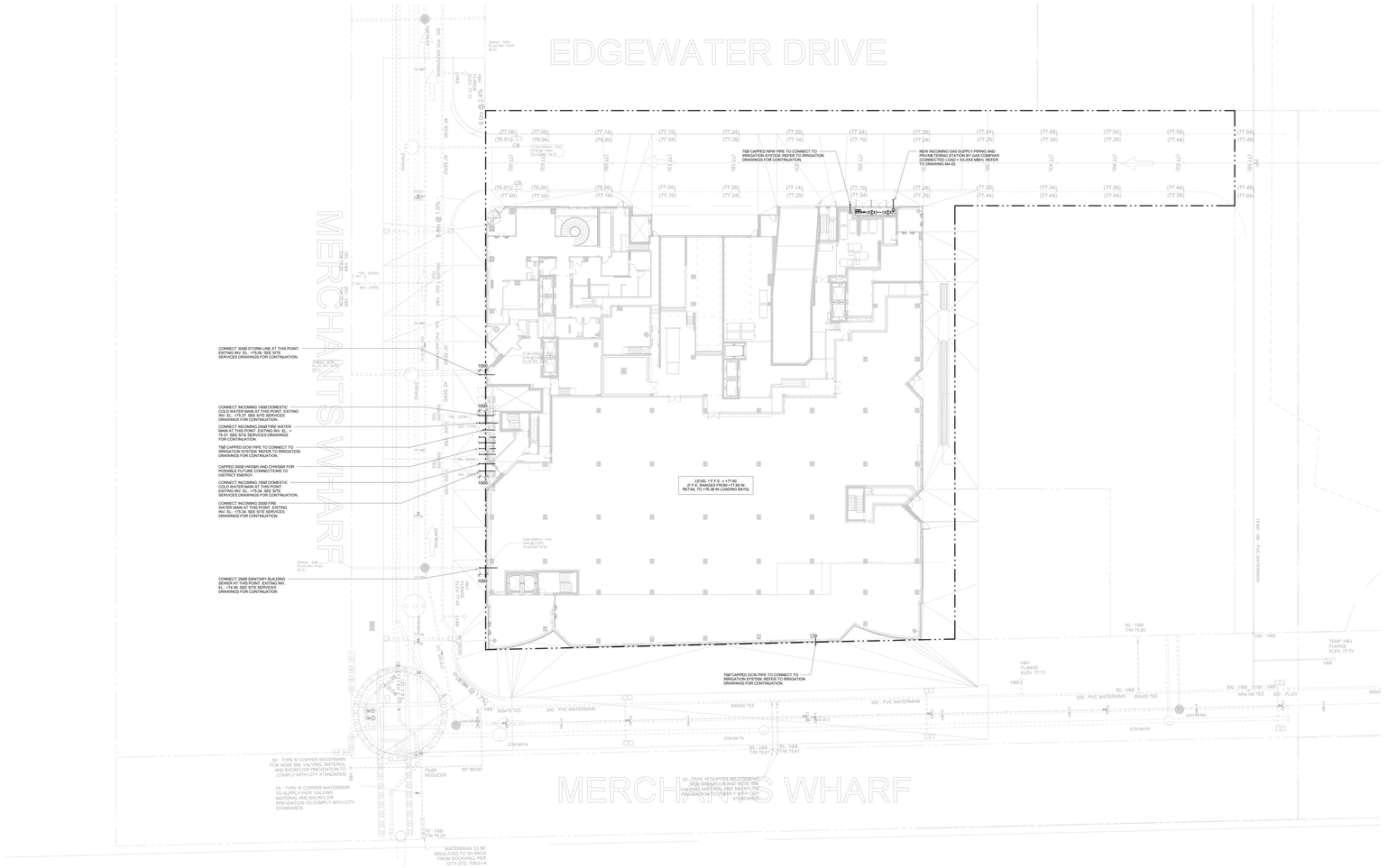
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
MECHANICAL SYMBOL LEGEND. DRAWING LIST & GENERAL NOTES

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

Scale: NTS.
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 12/08/09
Drawing No.: M0-00

Plot Date: 12/08/2015 10:41:55 File Path: C:\Users\administrator.MCW\Documents\8489D — Aquavista — MEP_Block_R3-R4.rvt



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Date: 08/28/12

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type
SITE PLAN - MECHANICAL

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

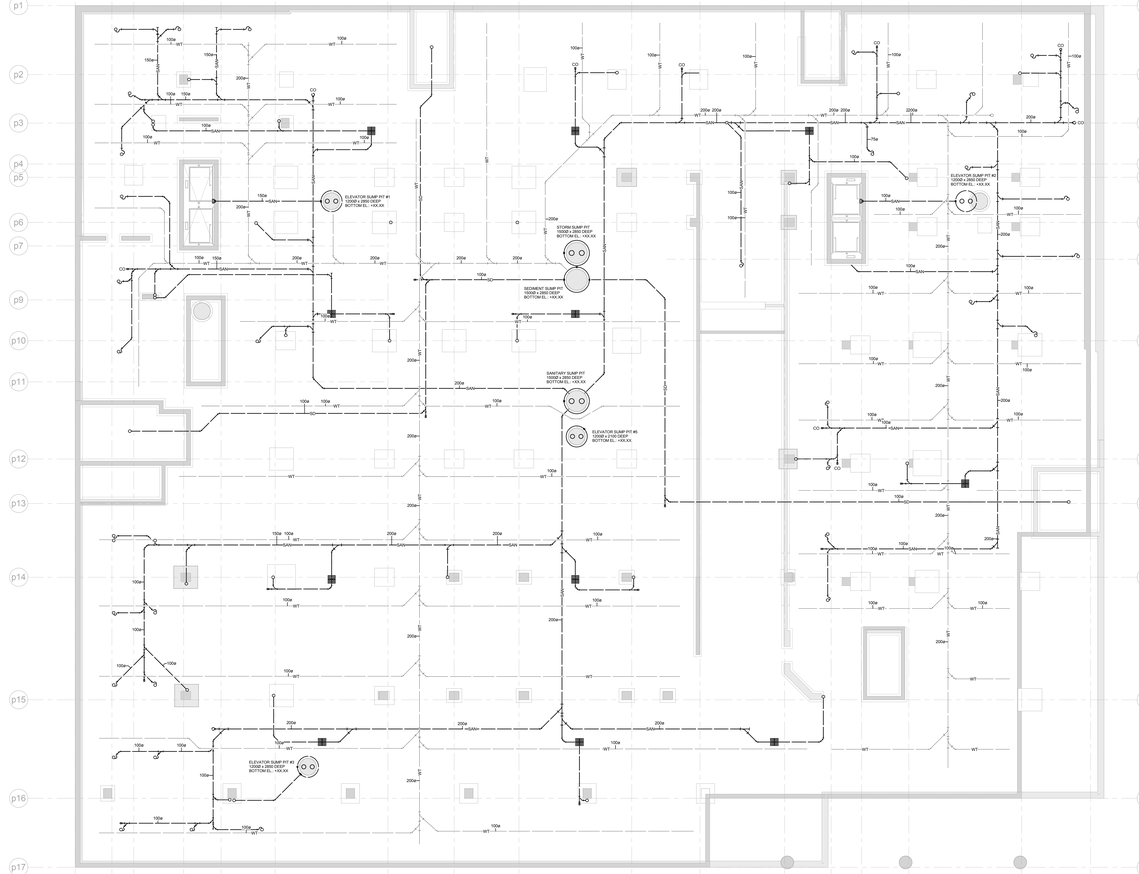
Scale: 1 : 200
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 08/28/12
Drawing No.: M0-01

N

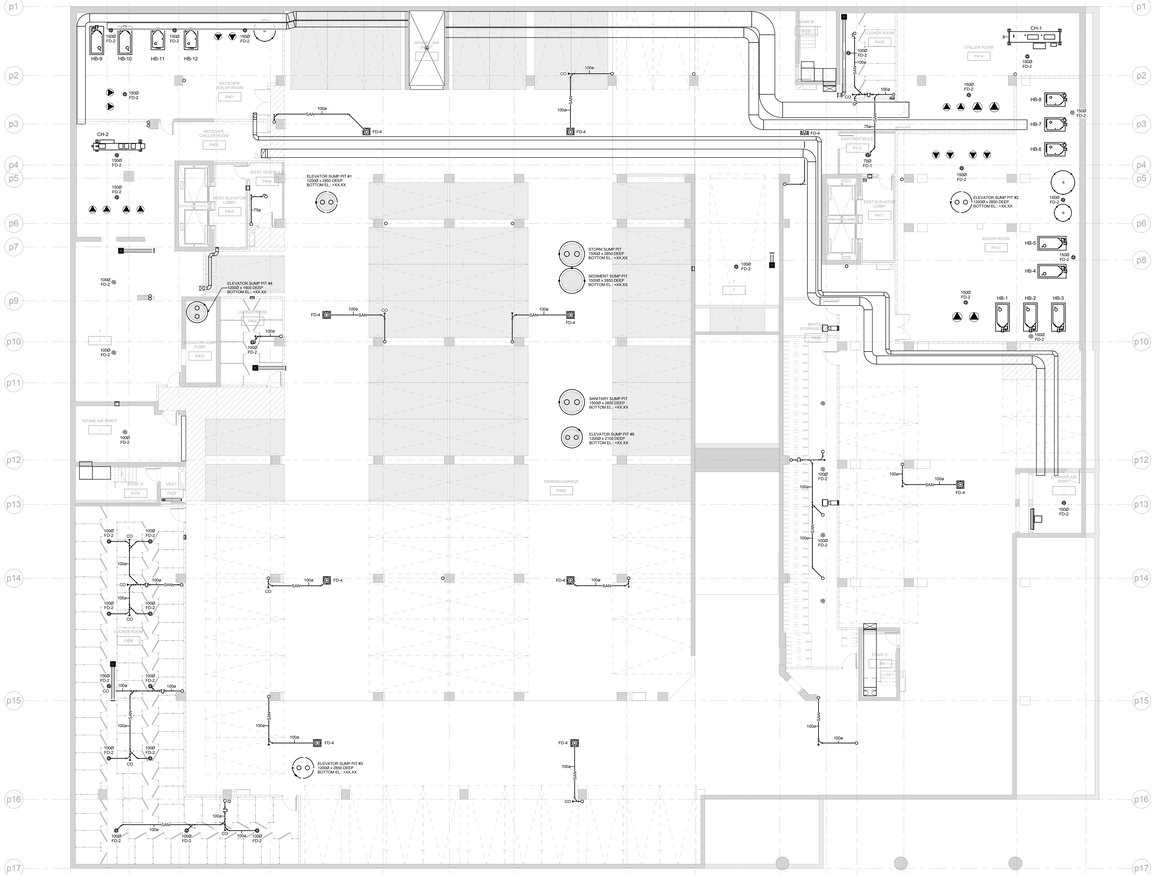
Plot Date: 12/08/2015 11:12:08 AM File Path: C:\Users\adimovski\Dr\Documents\8489D - Aquavista - MEP_Block_R3.rvt

NOTES:

WEEPING TILE AND BELOW SLAB DRAINAGE LAYOUT SHOWN ON THIS DRAWING TO BE REVIEWED AND APPROVED BY GEOTECHNICAL CONSULTANT PRIOR TO CONSTRUCTION. GEOTECHNICAL CONSULTANT TO INSPECT INSTALLATION PRIOR TO BACKFILL.



1 FOUNDATION FLOOR PLAN - MECHANICAL
1 : 100



2 LEVEL P4 FLOOR PLAN - MECHANICAL
1 : 100

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Date: 03/04/15

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

FOUNDATION & LEVEL P4
FLOOR PLANS
MECHANICAL

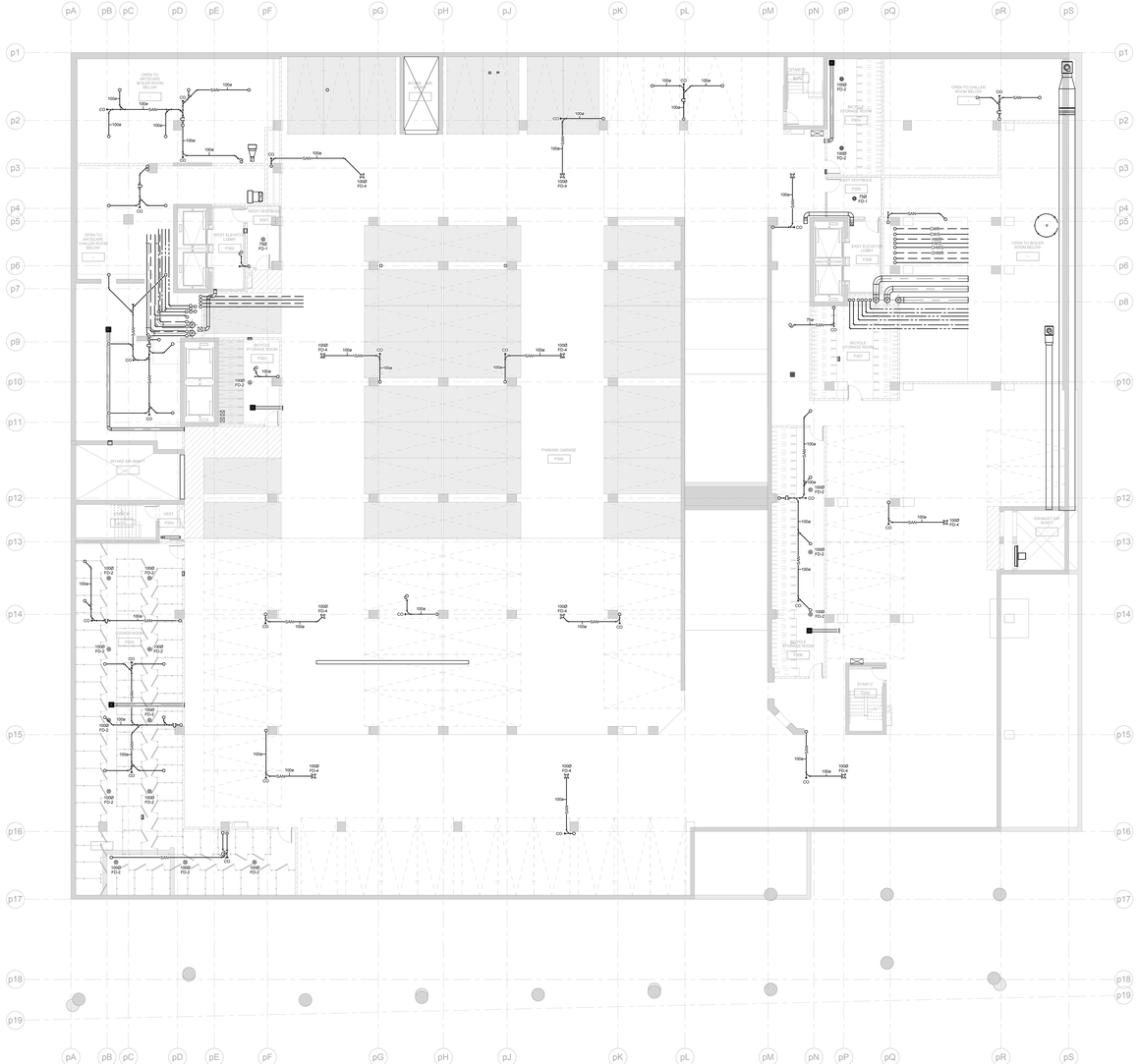
Project

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

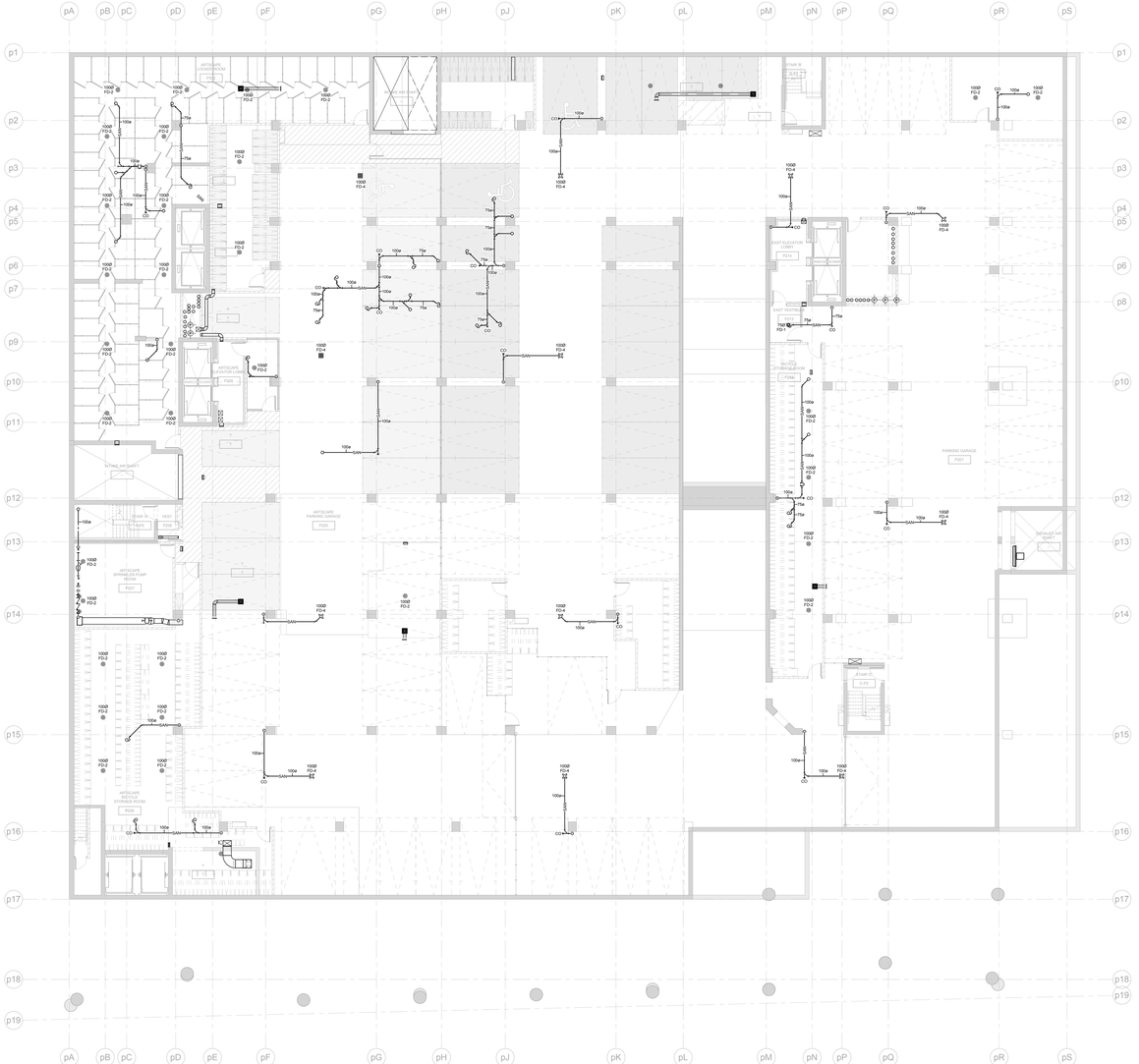
Scale: 1 : 100
Drawn by: M.F
Checked by: M.H
Project No: 8489D
Date: 03/04/15
Drawing No: M1-00

N

Plot Date: 12/06/2015 10:48:57 File Path: C:\Users\jbelmonte\Documents\8489D — Aquavista — MEP_Block_R3-R4_mjf.rvt



1 LEVEL P3 FLOOR PLAN - MECHANICAL
1 : 100



2 LEVEL P2 FLOOR PLAN - MECHANICAL
1 : 100

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Date: 03/04/15

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL P3 & LEVEL P2
FLOOR PLANS
MECHANICAL

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

Scale: 1 : 100
Drawn by: Author
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Project No: 8489D
Date: 03/04/15
Drawing No: M1-01

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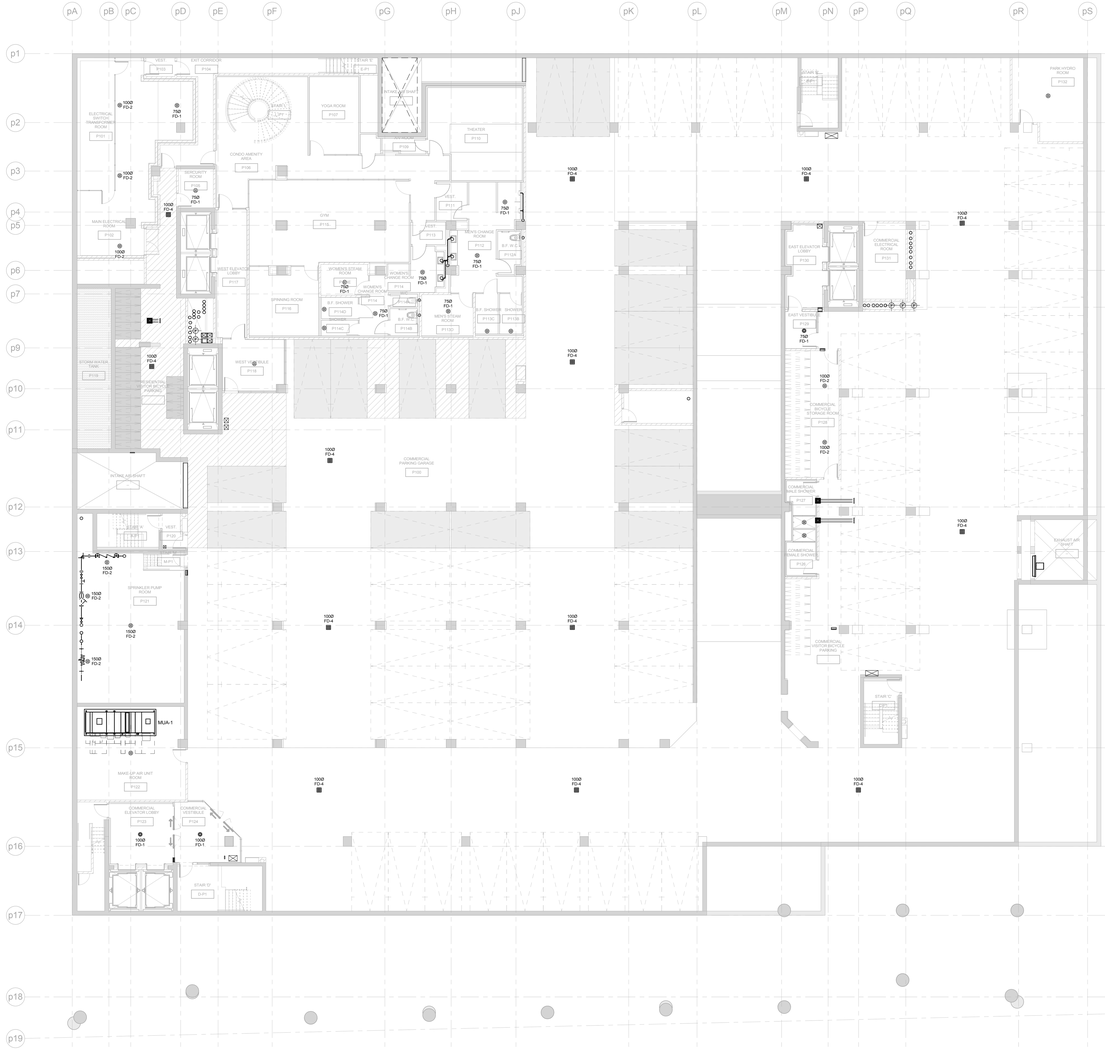

1 LEVEL P1 FLOOR PLAN - MECHANICAL
1 : 100

2 LEVEL P1 MEZZANINE FLOOR PLAN - MECHANICAL
1 : 100

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type
LEVEL P1 & LEVEL P1 MEZZANINE FLOOR PLANS - MECHANICAL

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

Scale: 1 : 100
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 03/04/15
Drawing No: M1-02

Plot Date: 12/06/2015 10:48:12 File Path: C:\Users\cbellamy\Desktop\Temp\8489D - Aquavista - MEP_Work_P.rvt

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 1 FLOOR PLAN
NORTH - MECHANICAL

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	03/04/15

Drawing No.

M2-01A

Plot Date: 12/06/2015 10:48:28 File Path: C:\Users\cadmin\Desk\M2Documents\8489D — Aquavista — MEP_Block_R.rvt
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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	SIT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 1 FLOOR PLAN
SOUTH - MECHANICAL

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: 03/04/15

N

Drawing No.

M2-01B

Plot Date: 12/06/2015 10:48:32 AM
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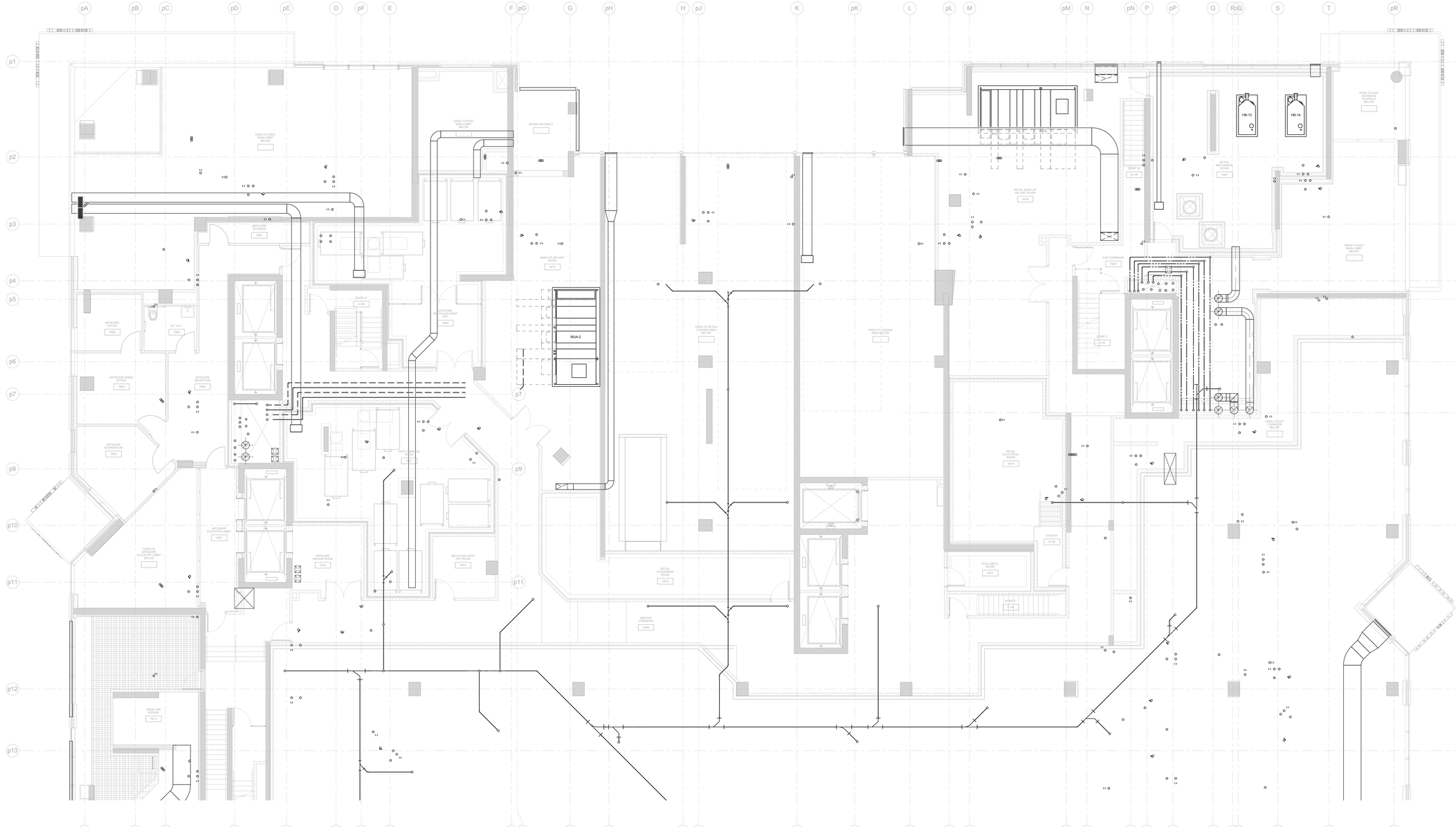

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No.	Revision	Date

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

LEVEL 1 MEZZANINE FLOOR PLAN NORTH MECHANICAL

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: 03/04/15

Drawing No.: M2-02A

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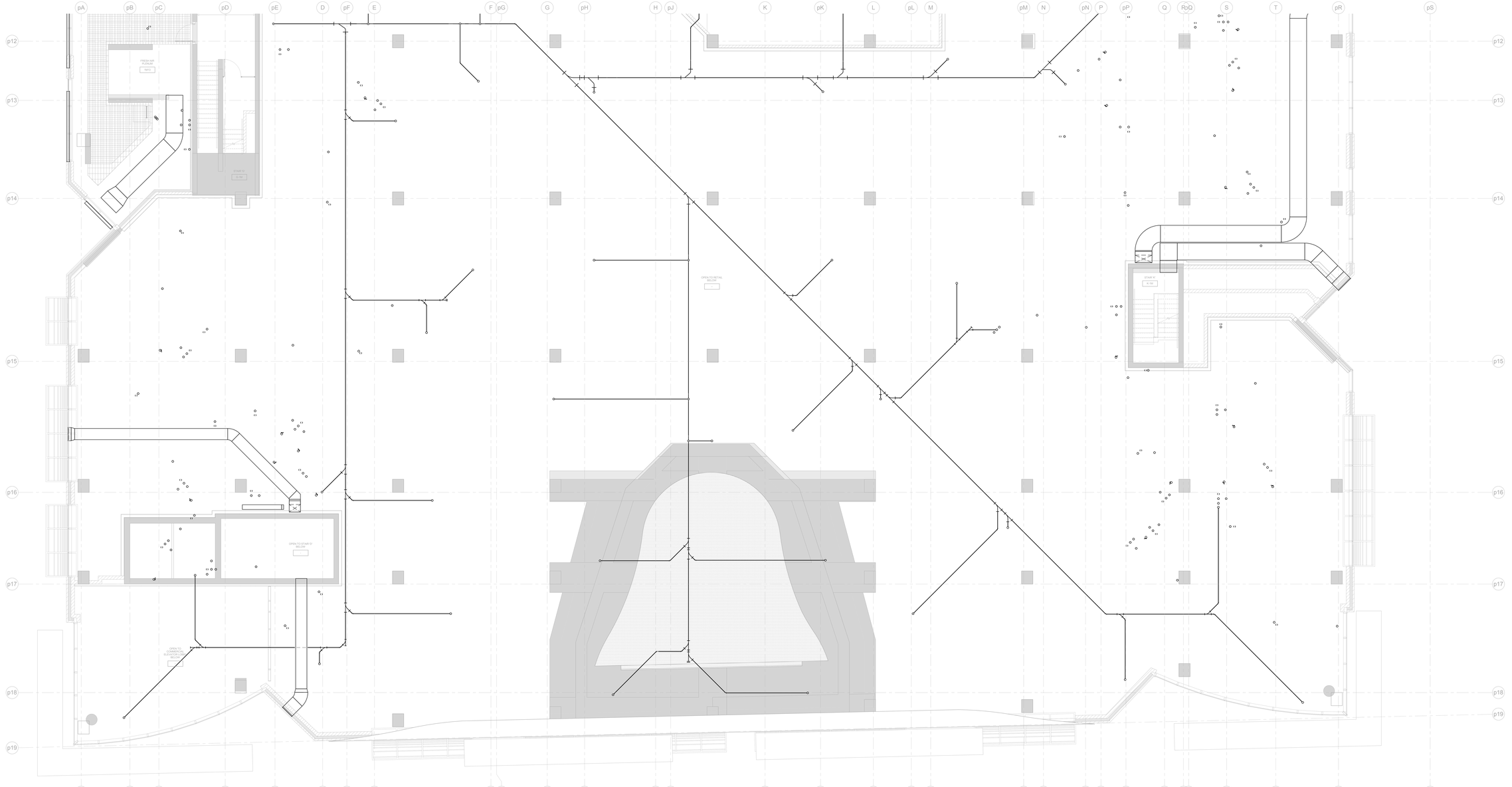

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No.	Revision	Date

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

LEVEL 1 MEZZANINE
FLOOR PLAN SOUTH
MECHANICAL

Project

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

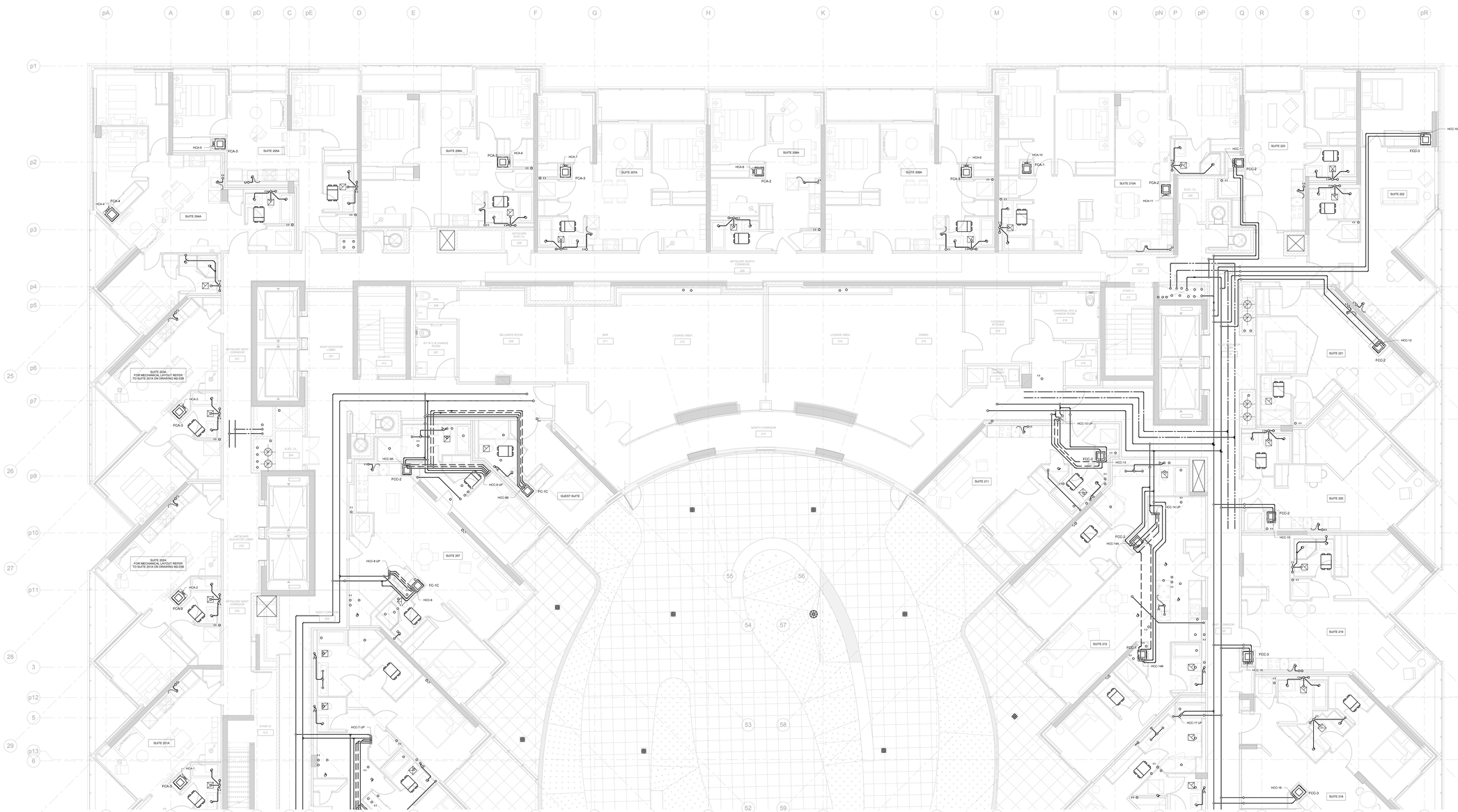
Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/04/15

N

Drawing No.

M2-02B

Plot Date: 12/06/2015 10:48:51 AM File Path: C:\Users\cwilson\Documents\For Documents\8489D - Aquavista - MEP_Work_Fr15



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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

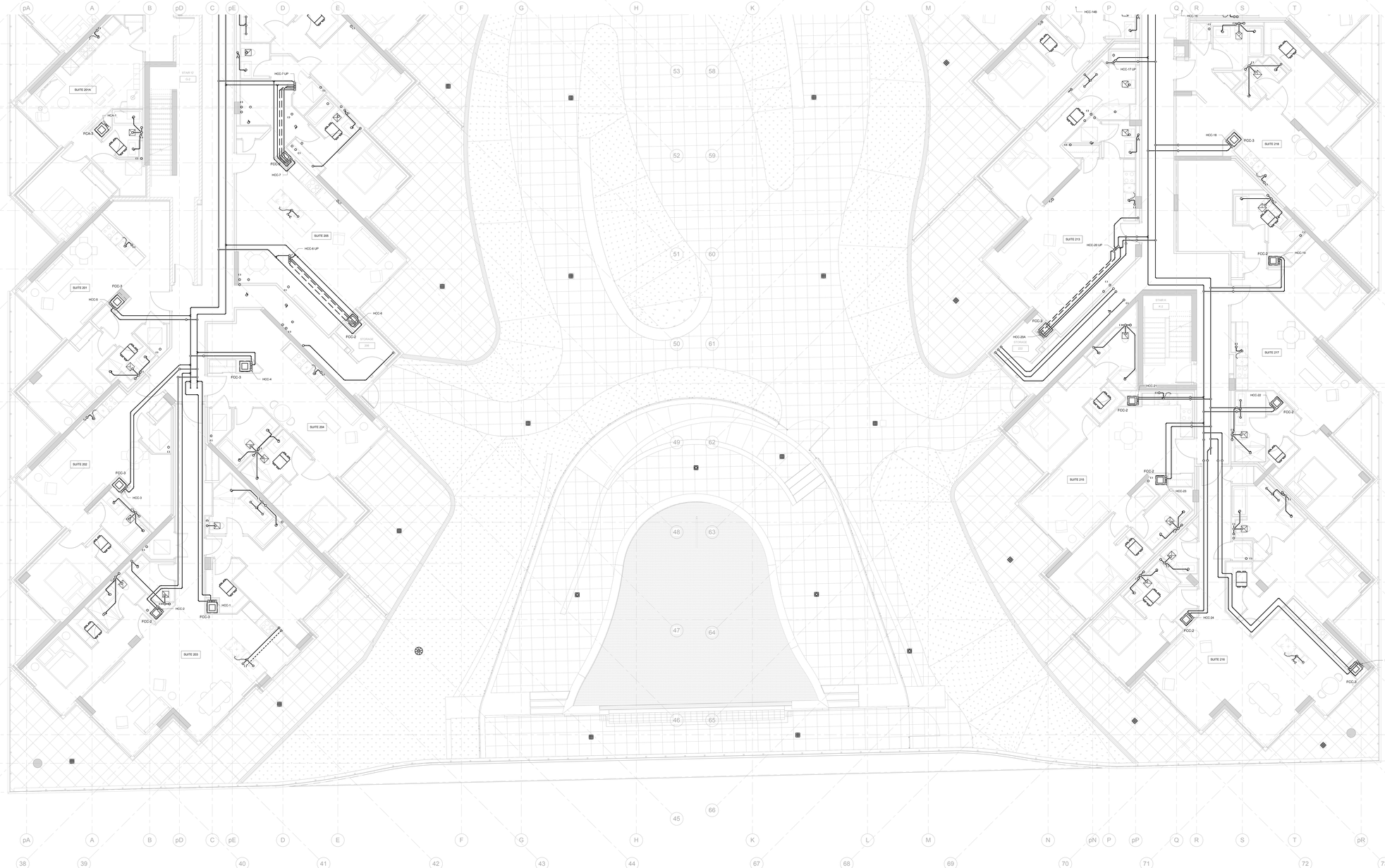
LEVEL 2 FLOOR PLAN
NORTH - MECHANICAL

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	03/04/15
Drawing No.	M2-03A

Plot Date: 12/06/2015 10:43:05 AM
File Path: C:\Users\cadmin\Desktop\Documents\8489D — Aquavista — MEP_Work_Files\



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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 2 FLOOR PLAN
SOUTH - MECHANICAL

Project

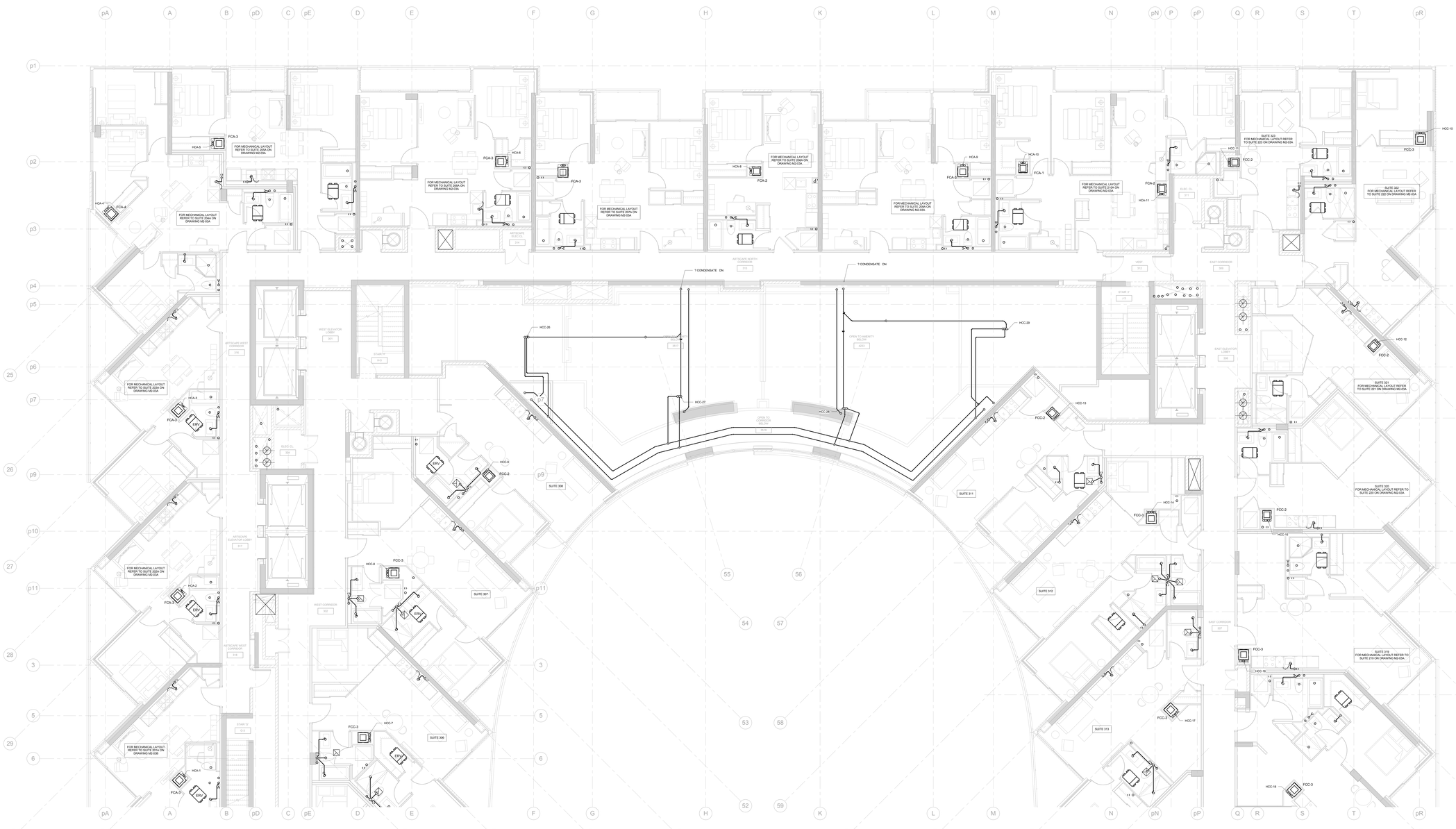
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/04/15

Drawing No.

M2-03B

Plot Date: 12/06/2015 10:43:12 AM File Path: C:\Users\jsimmons\3D Documents\8489D — Aquavista — MEP_Work_Fi.rvt



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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 3 FLOOR PLAN
NORTH - MECHANICAL

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: 03/04/15
Drawing No.: M2-04A

Plot Date: 12/06/2015 10:43:20 AM
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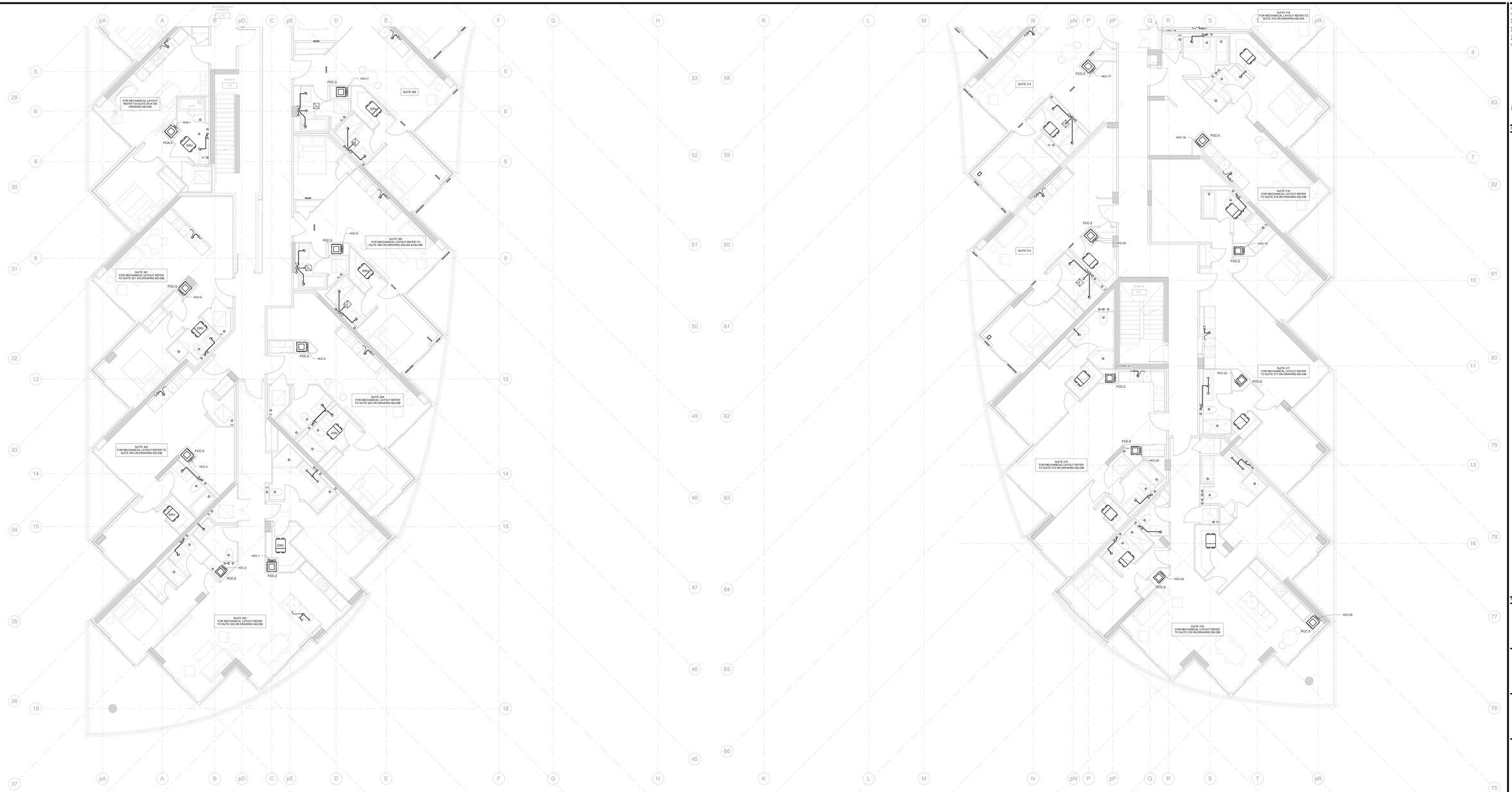

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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

LEVEL 3 FLOOR PLAN
SOUTH - MECHANICAL

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	03/04/15
Drawing No.	M2-04B

Plot Date: 12/06/2015 09:49:37 File Path: C:\Users\cbelmonte\Dr.#\Documents\8489D — Aquavista — M2P_Block_R.rvt
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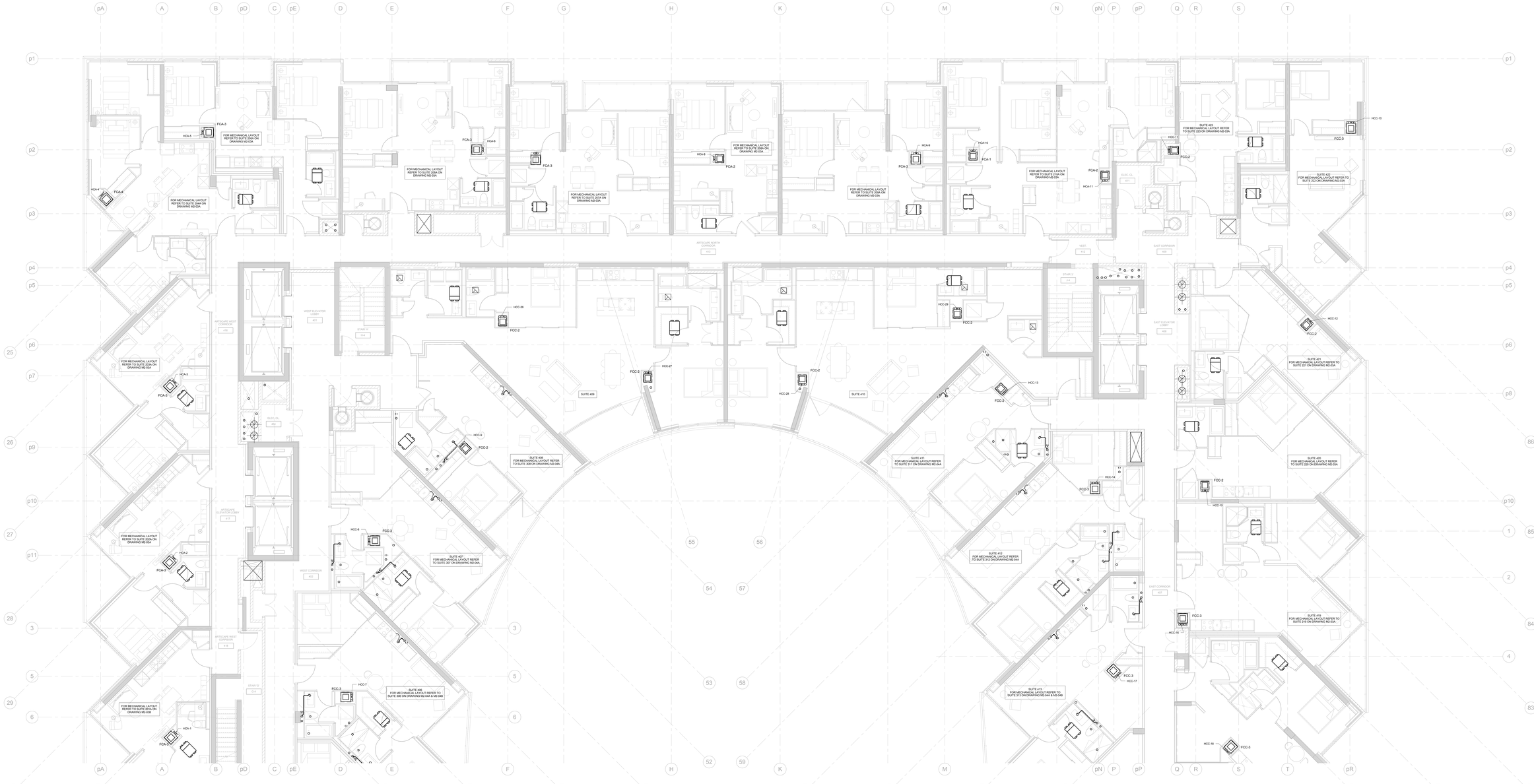

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2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

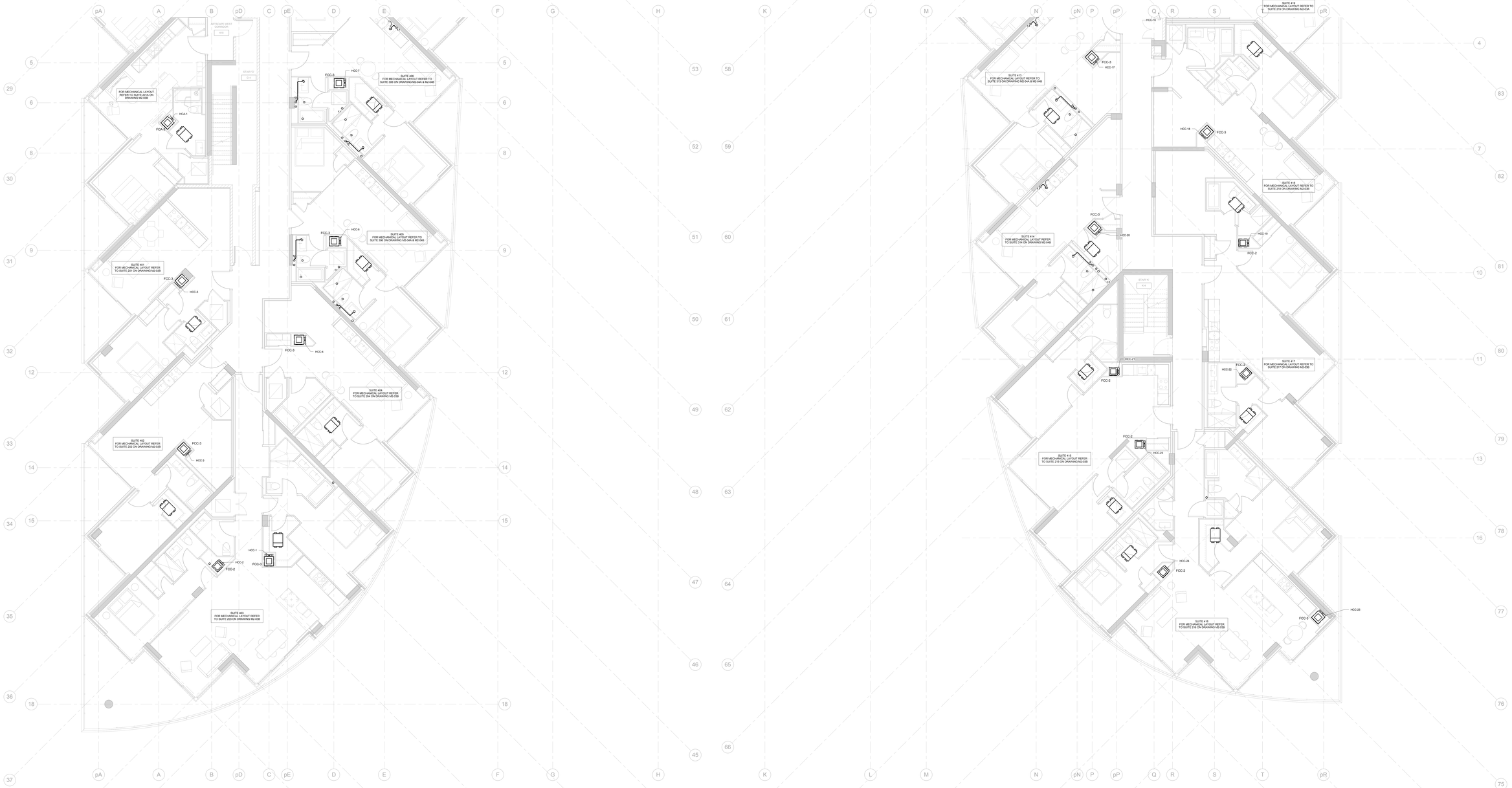
LEVEL 4-5 FLOOR PLAN
NORTH - MECHANICAL

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	03/04/15
Drawing No.	M2-05A

Plot Date: 12/06/2015 10:49:34 File Path: C:\Users\cadmin\Desktop\M2-05A.dwg



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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

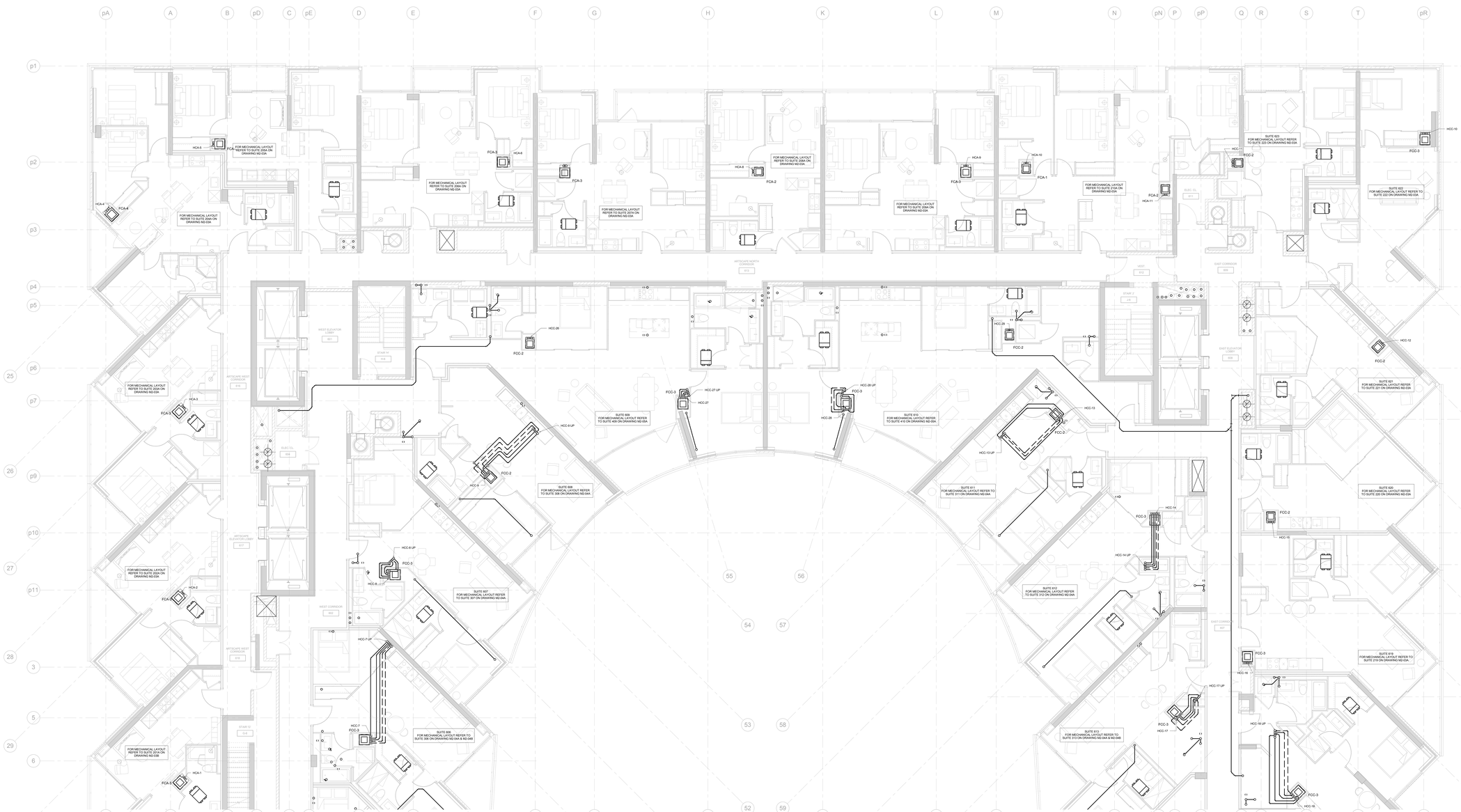
LEVEL 4-5 FLOOR PLAN
SOUTH - MECHANICAL

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	03/04/15
Drawing No.	M2-05B

Plot Date: 12/06/2015 10:43:45 AM File Path: C:\Users\jbelmonte\Documents\Revit\Aquavista - Mech_Block_R3.rvt



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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

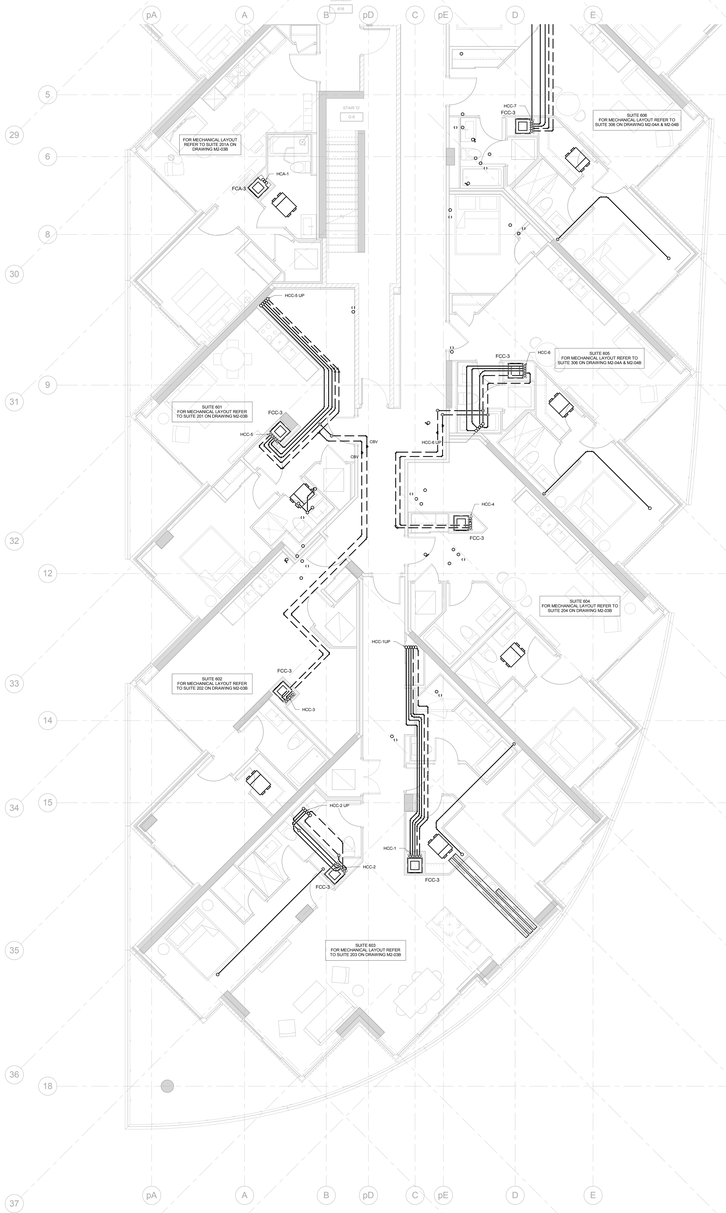
LEVEL 6 FLOOR PLAN
NORTH - MECHANICAL

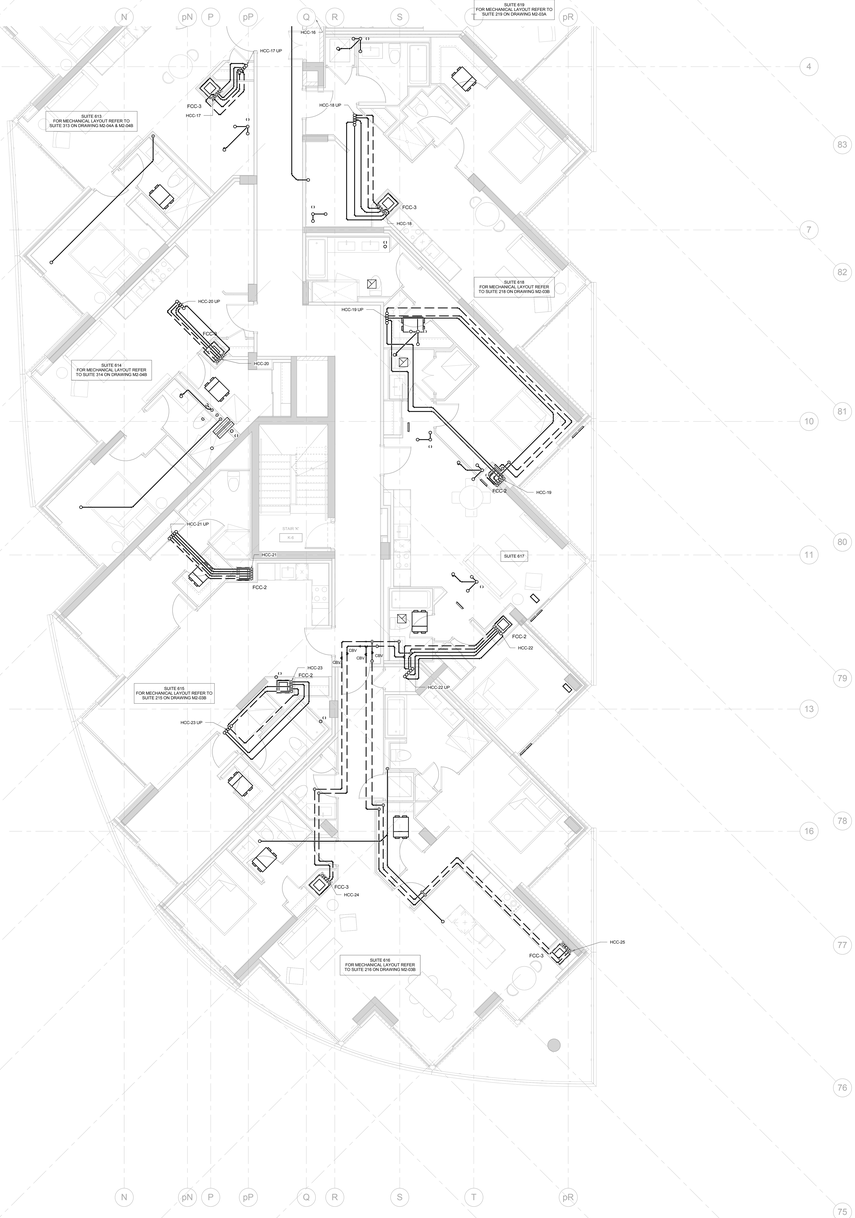
Project

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	03/04/15
Drawing No.	M2-06A

Plot Date: 12/06/2015 10:43:48 File Path: C:\Users\jcalmeida\Desktop\Temp_Work\8489D_Aquavista_M2_Block_R3-R4.rvt





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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

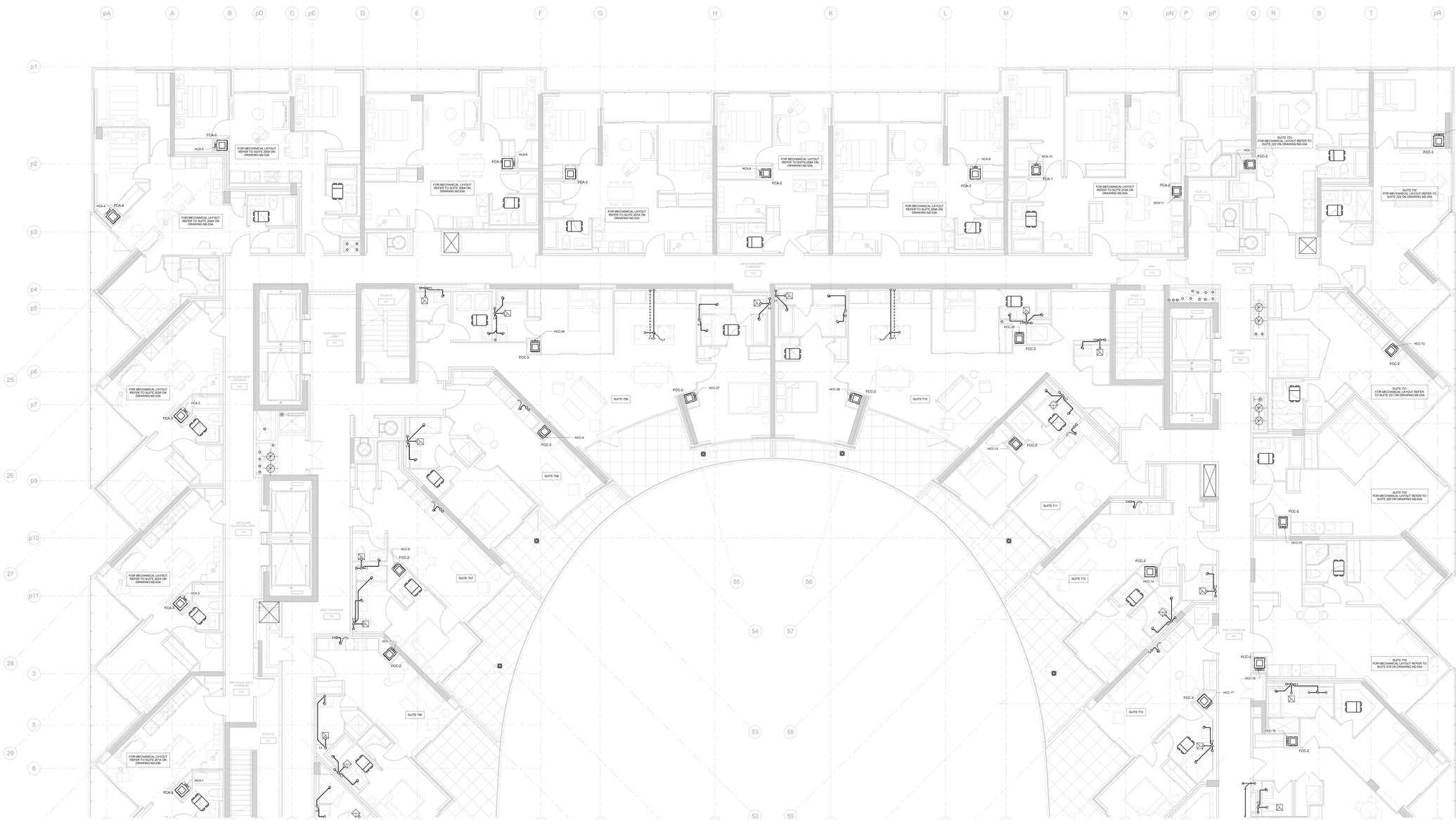
LEVEL 6 FLOOR PLAN
SOUTH - MECHANICAL

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	03/04/15
Drawing No.	M2-06B

Plot Date: 12/06/2015 10:43:15 PM Plot By: C:\Users\jbenedictus\Dropbox\Projects\8489D - Aquavista - WT_Block_R3.rvt



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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

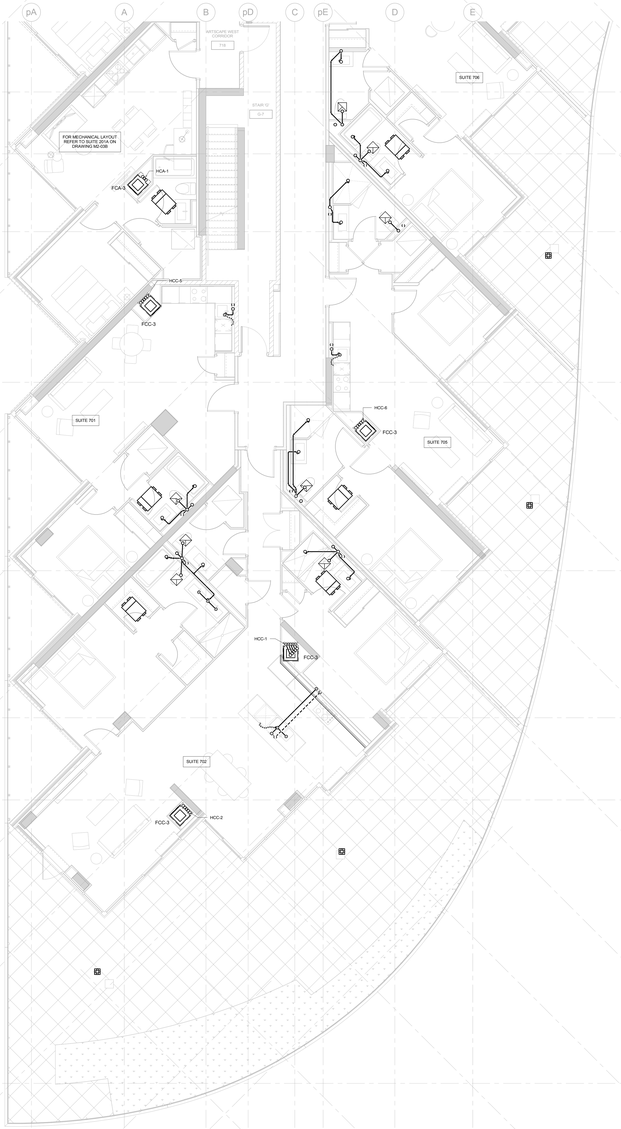
LEVEL 7 FLOOR PLAN
NORTH - MECHANICAL

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	03/04/15
Drawing No.	M2-07A

Plot Date: 12/06/2015 10:33:32 File Path: C:\Users\jsilvestro\Desktop\Temp Documents\8489D — Aquavista — MEP_Block_R3-R4.rvt



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No.	Revision	Date

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

LEVEL 7 FLOOR PLAN
SOUTH - MECHANICAL

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: 03/04/15
Drawing No.: M2-07B

N

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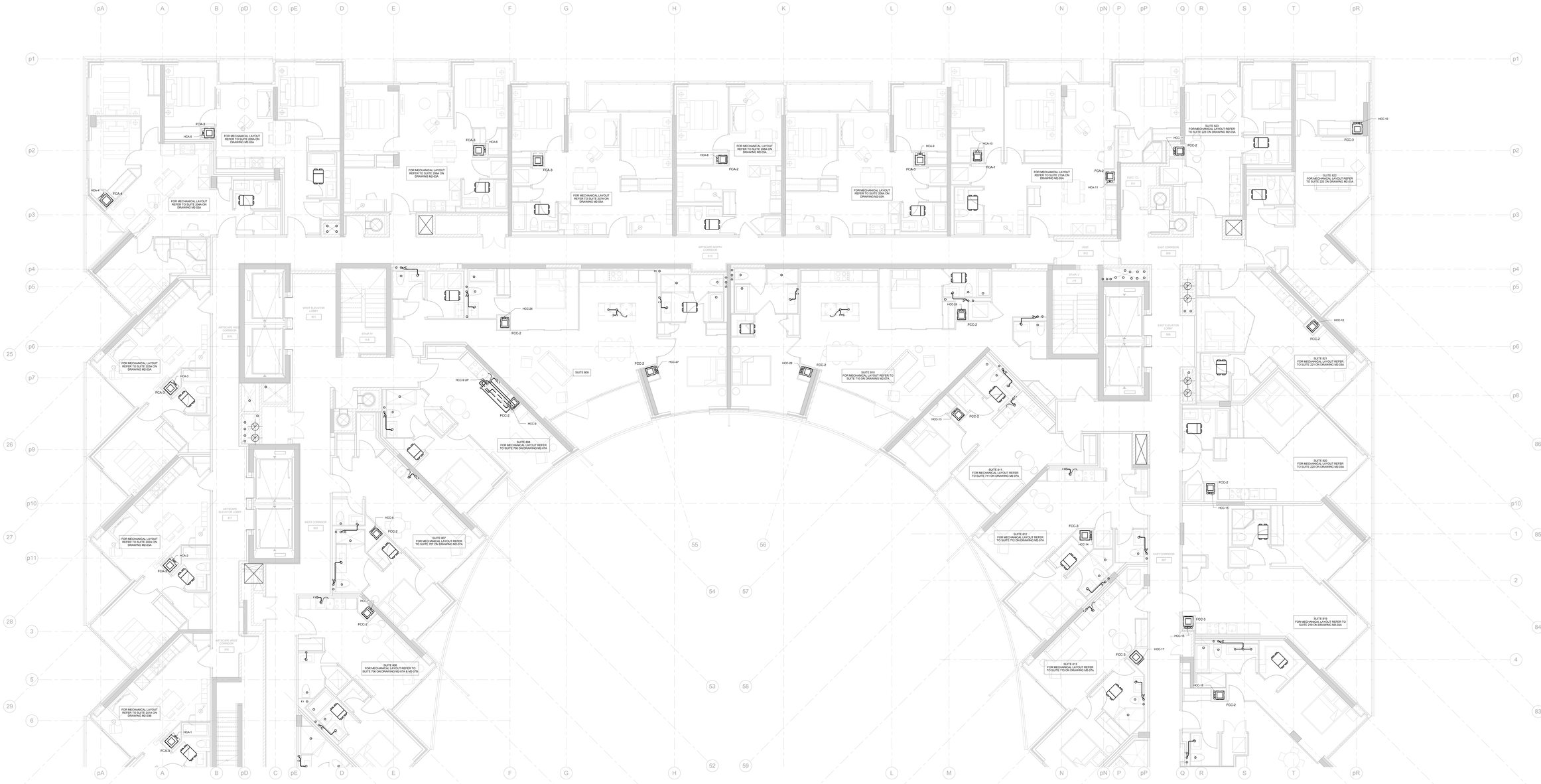

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No.	Revision	Date

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 8 FLOOR PLAN
NORTH - MECHANICAL

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	03/04/15
Drawing No.	M2-08A

N

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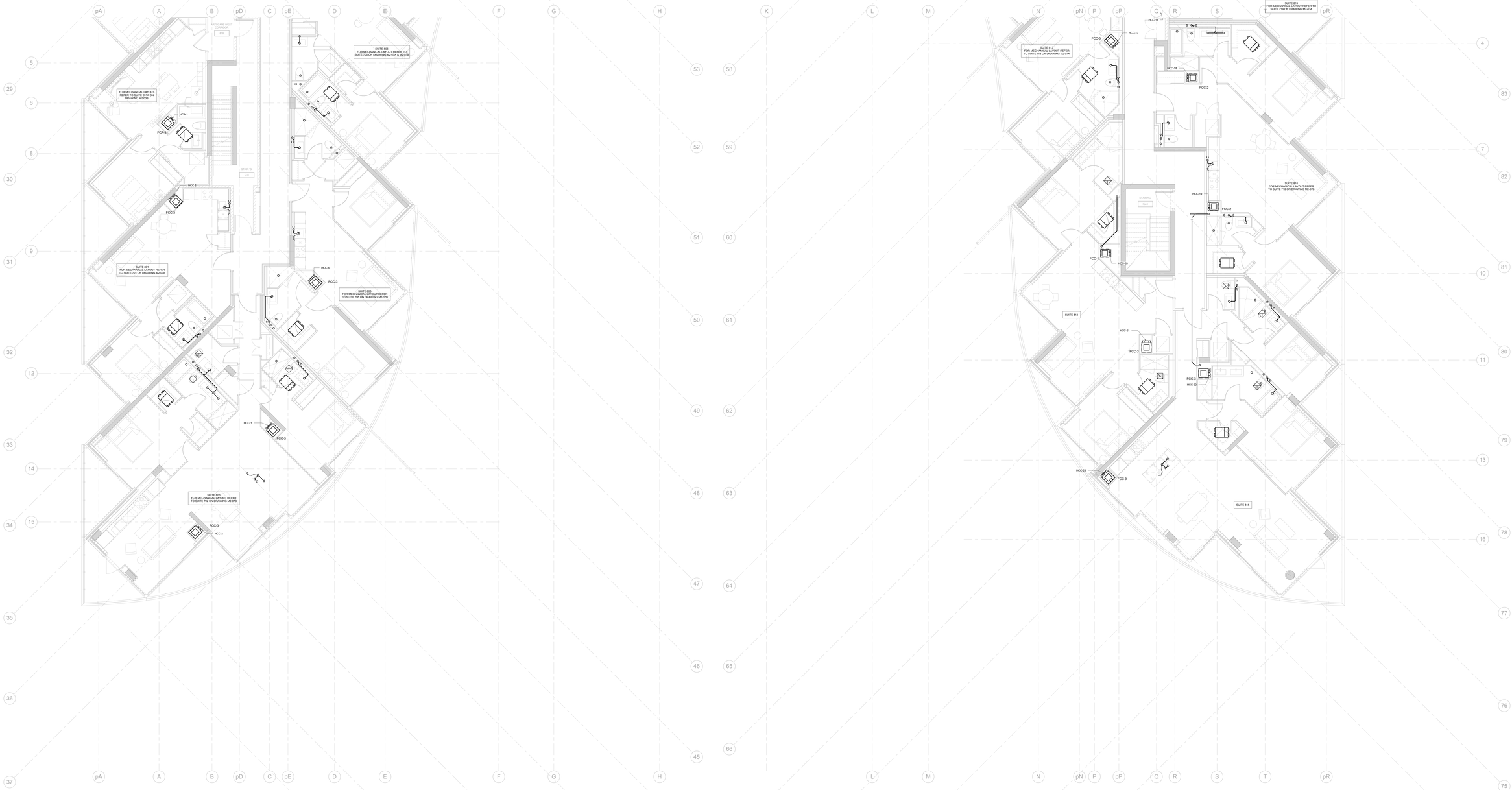

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Dayton Nanaimo Trail Saint John

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 8 FLOOR PLAN
SOUTH - MECHANICAL

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	03/04/15
Drawing No.	M2-08B

N

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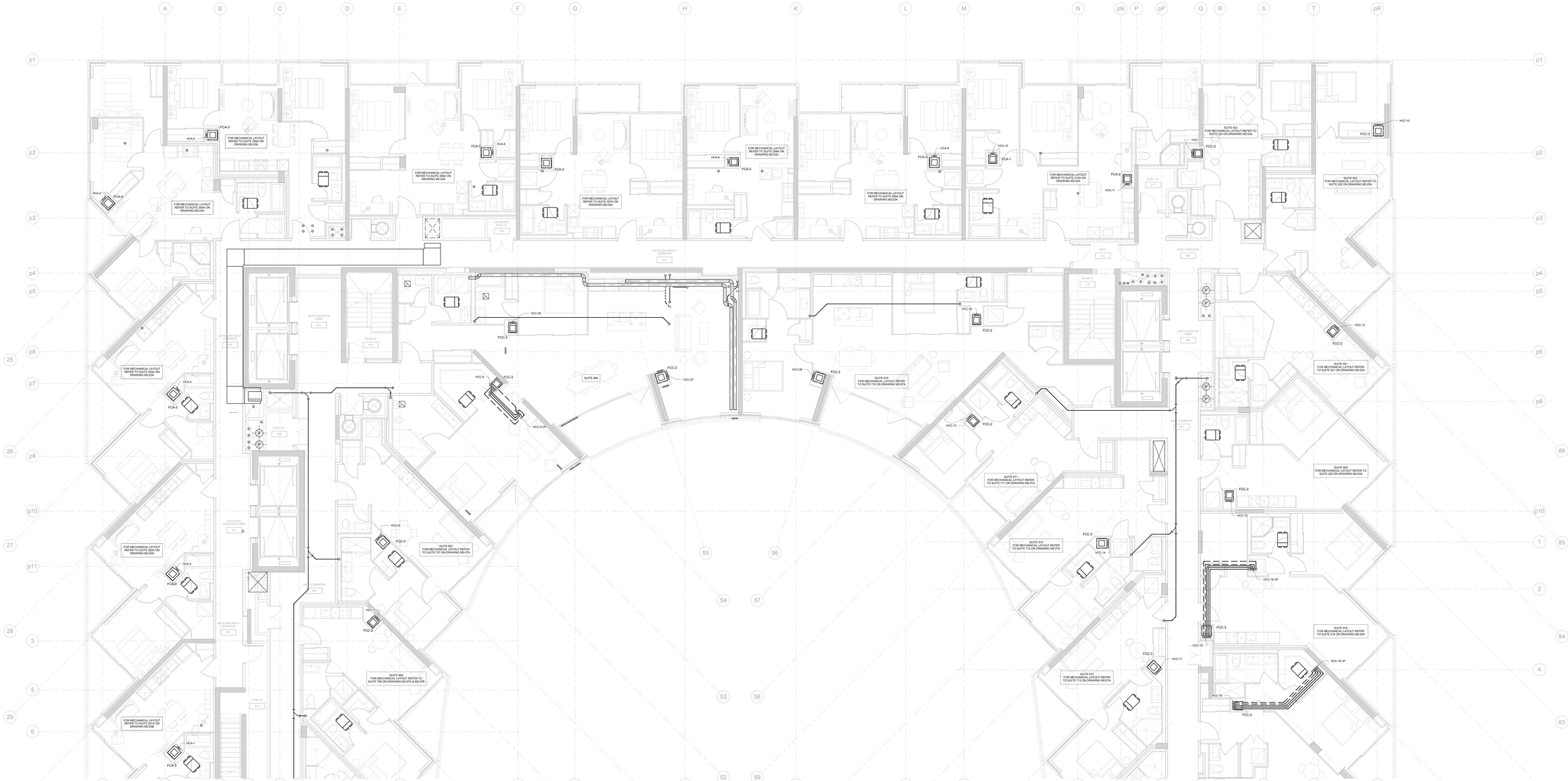

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Dayton Nanjing Taipei Zurich

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 9 FLOOR PLAN
NORTH - MECHANICAL

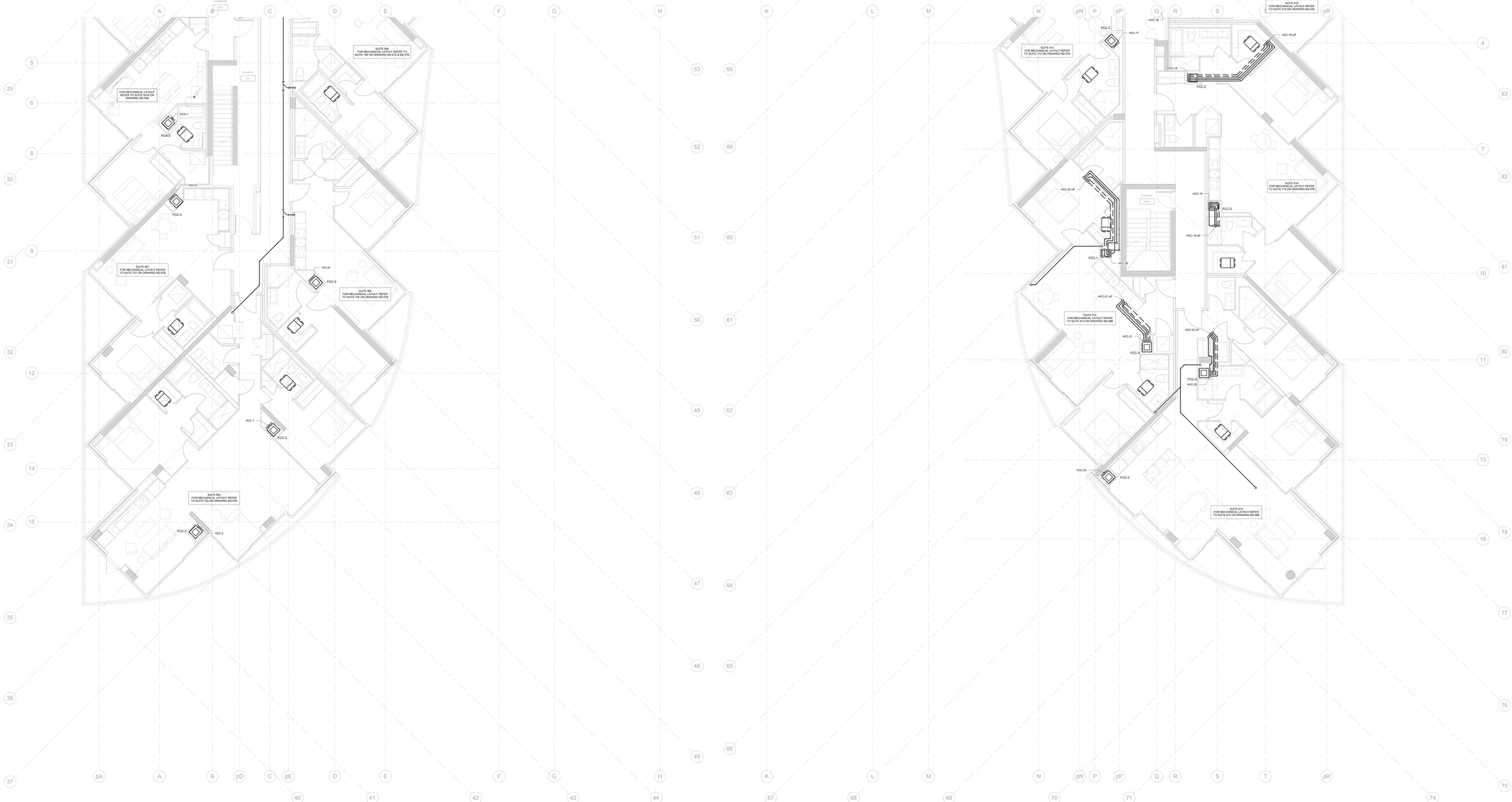
Project

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	03/04/15
Drawing No.	M2-09A

N

Plot Date: 12/06/2015 10:35:19 File Path: C:\Users\Administrator.MCW\Documents\8489D — Aquavista — MEP_Work_Fr.rvt



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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 9 FLOOR PLAN
SOUTH - MECHANICAL

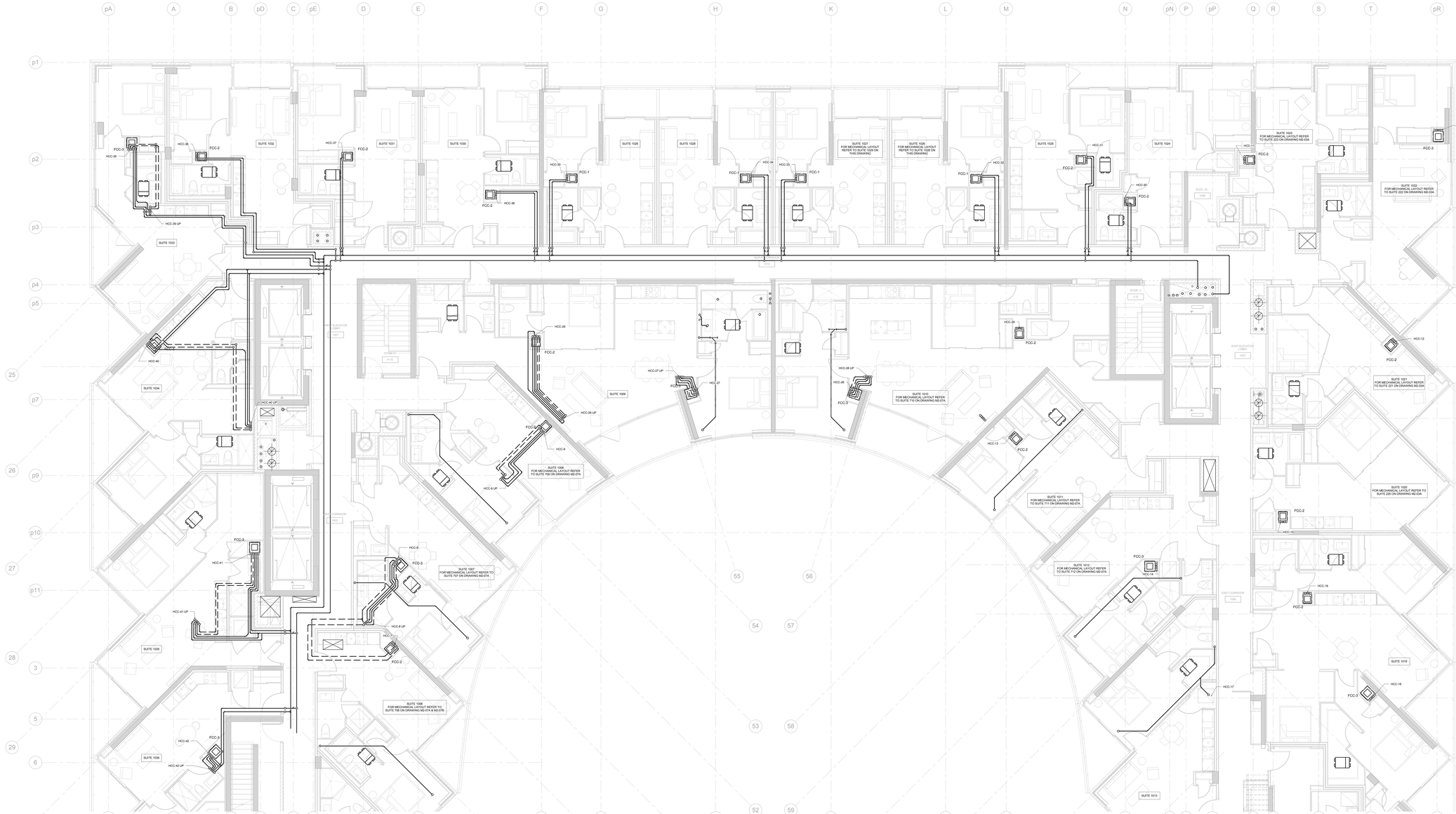
Project

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: 03/04/15
Drawing No.: M2-09B

N

Plot Date: 12/06/2015 10:20:34 File Path: C:\Users\jcarmichael\Documents\8489D - Aquavista - MEP_Work_Fr.rvt



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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 10 FLOOR PLAN
NORTH - MECHANICAL

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	03/04/15
Drawing No.	M2-10A

N

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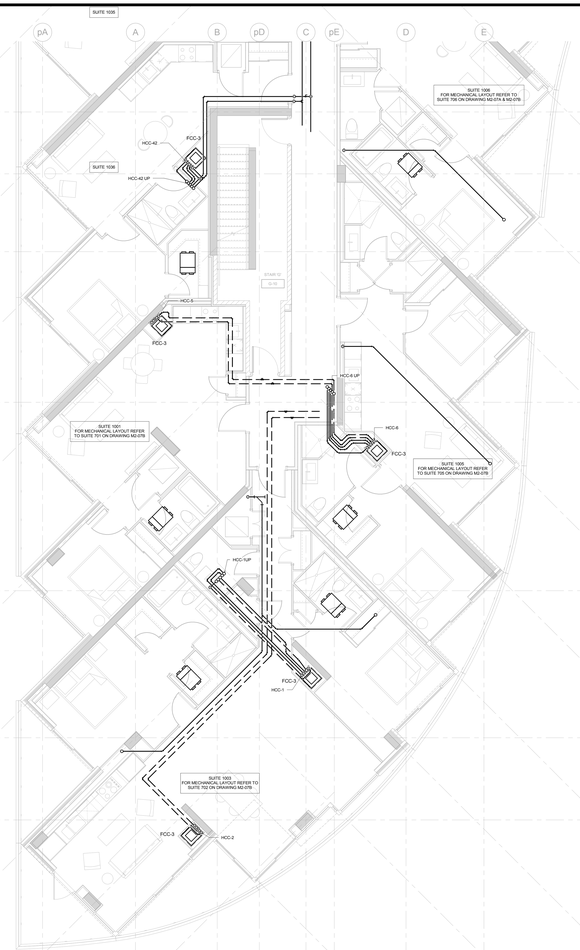

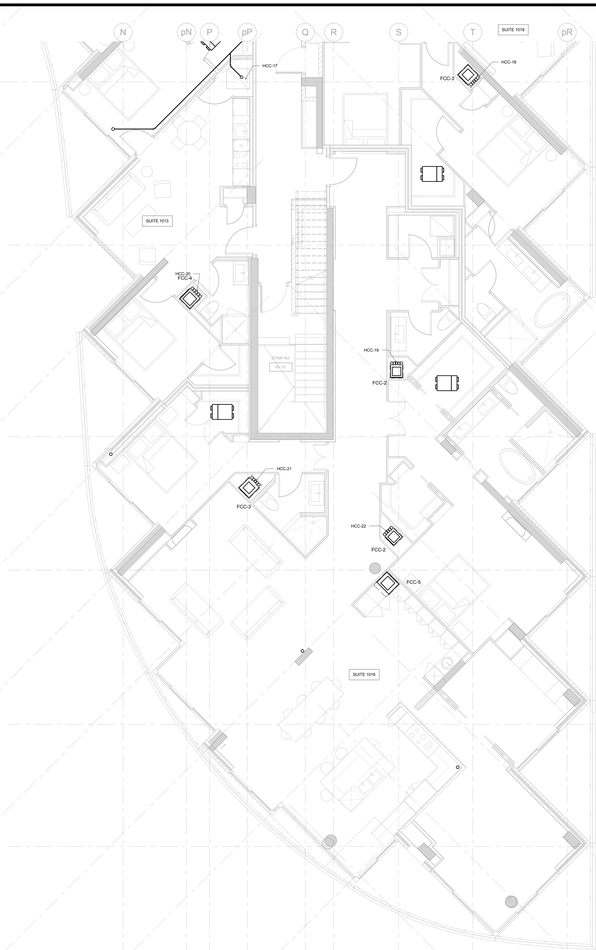

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Dayton Kelowna Trail Saint John

No.	Revision	Date

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 10 FLOOR PLAN
SOUTH - MECHANICAL

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	03/04/15
Drawing No.	M2-10B

Plot Date: 12/06/2015 10:30:47 File Path: C:\Users\cdimovski\Dropbox\Documents\8489D - Aquavista - MEP_Block_R3.rvt
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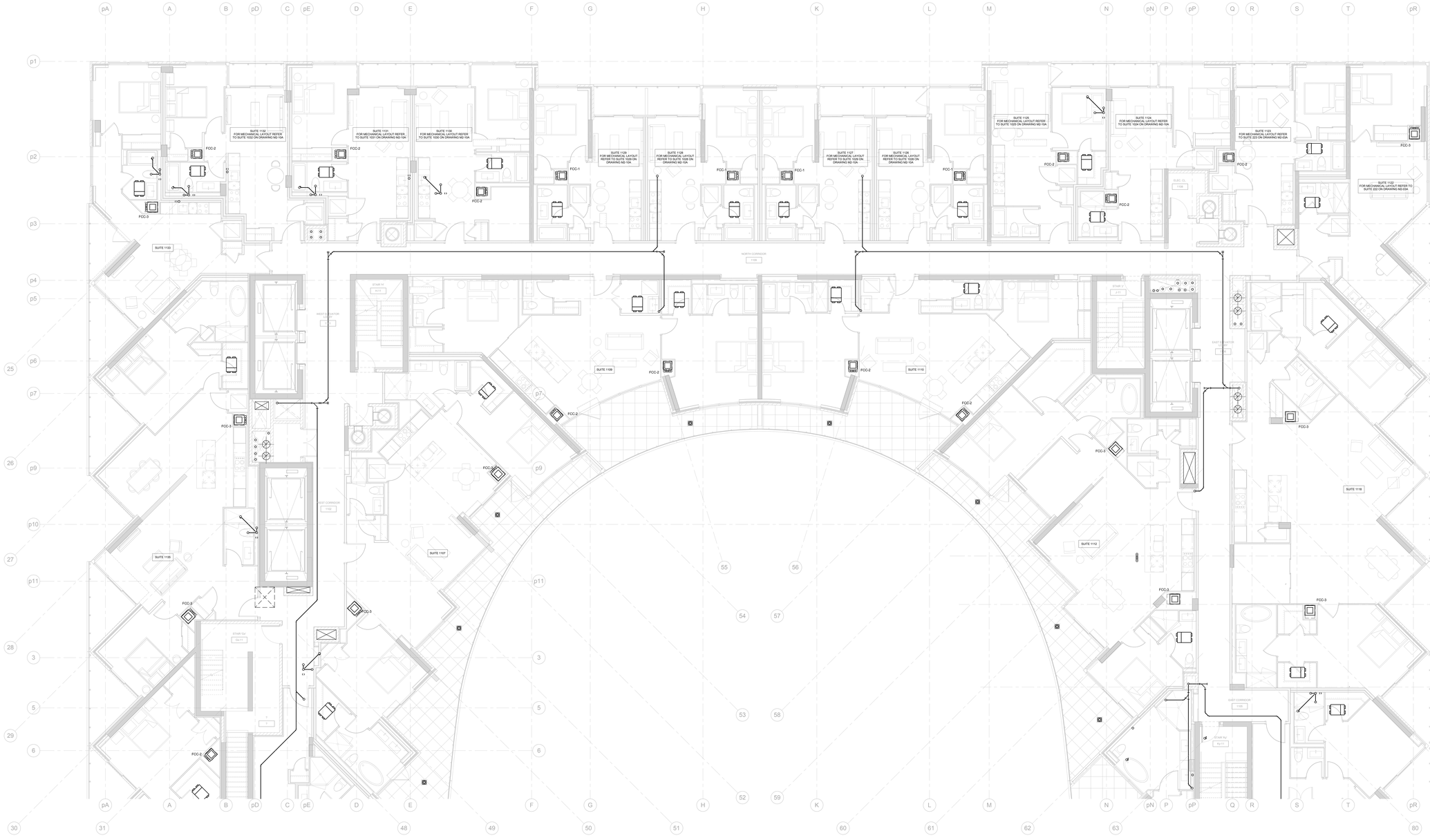

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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

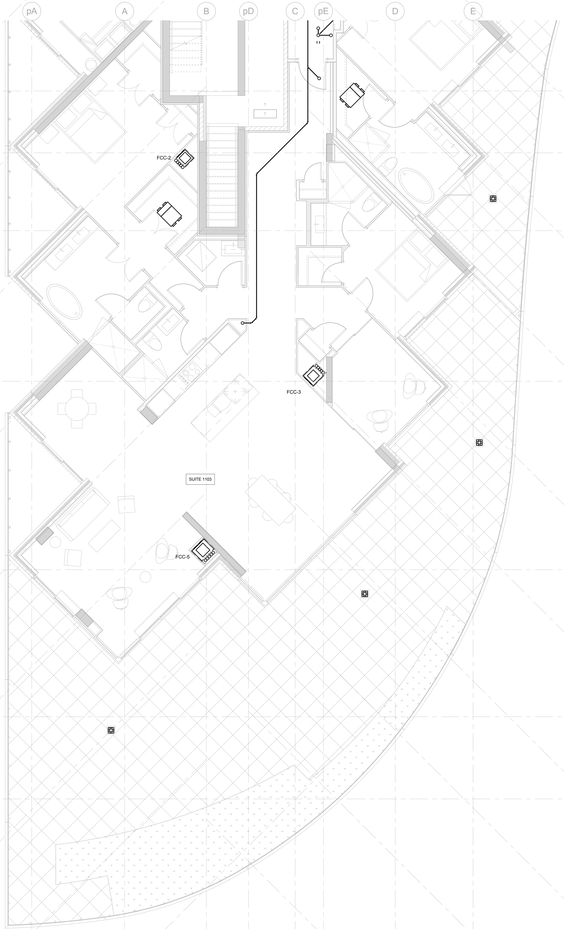
LEVEL 11 FLOOR PLAN
NORTH - MECHANICAL

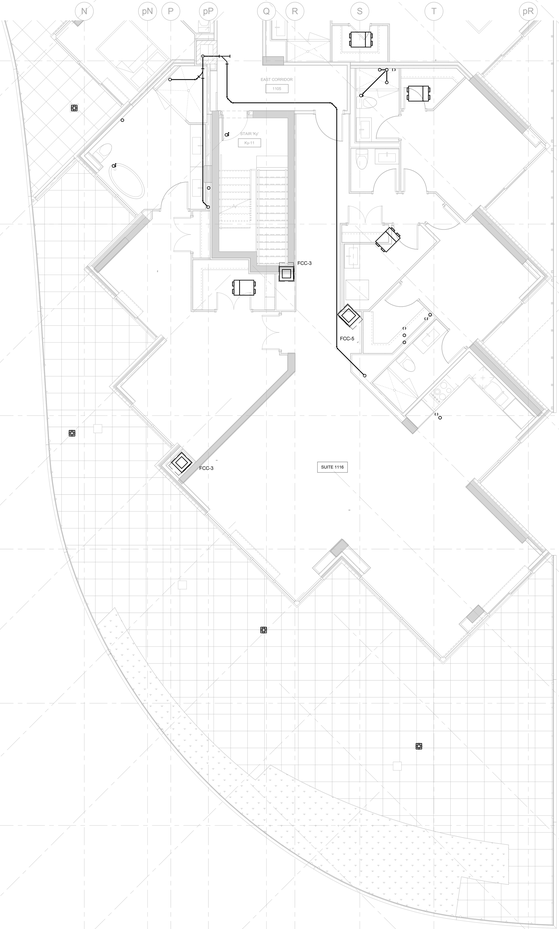
Project

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	03/04/15
Drawing No.	M2-11A

Plot Date: 12/06/2015 10:33:34 File Path: C:\Users\cadmin\Desktop\8489D — Aquavista — MEP_Work_Files\





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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 11 FLOOR PLAN
SOUTH - MECHANICAL

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	03/04/15
Drawing No.	M2-11B

N

Plot Date: 12/06/2015 10:35:19 File Path: C:\Users\cbenedictus\Dr.R\Documents\8489D - Aquavista - MEP_Block_R.rvt
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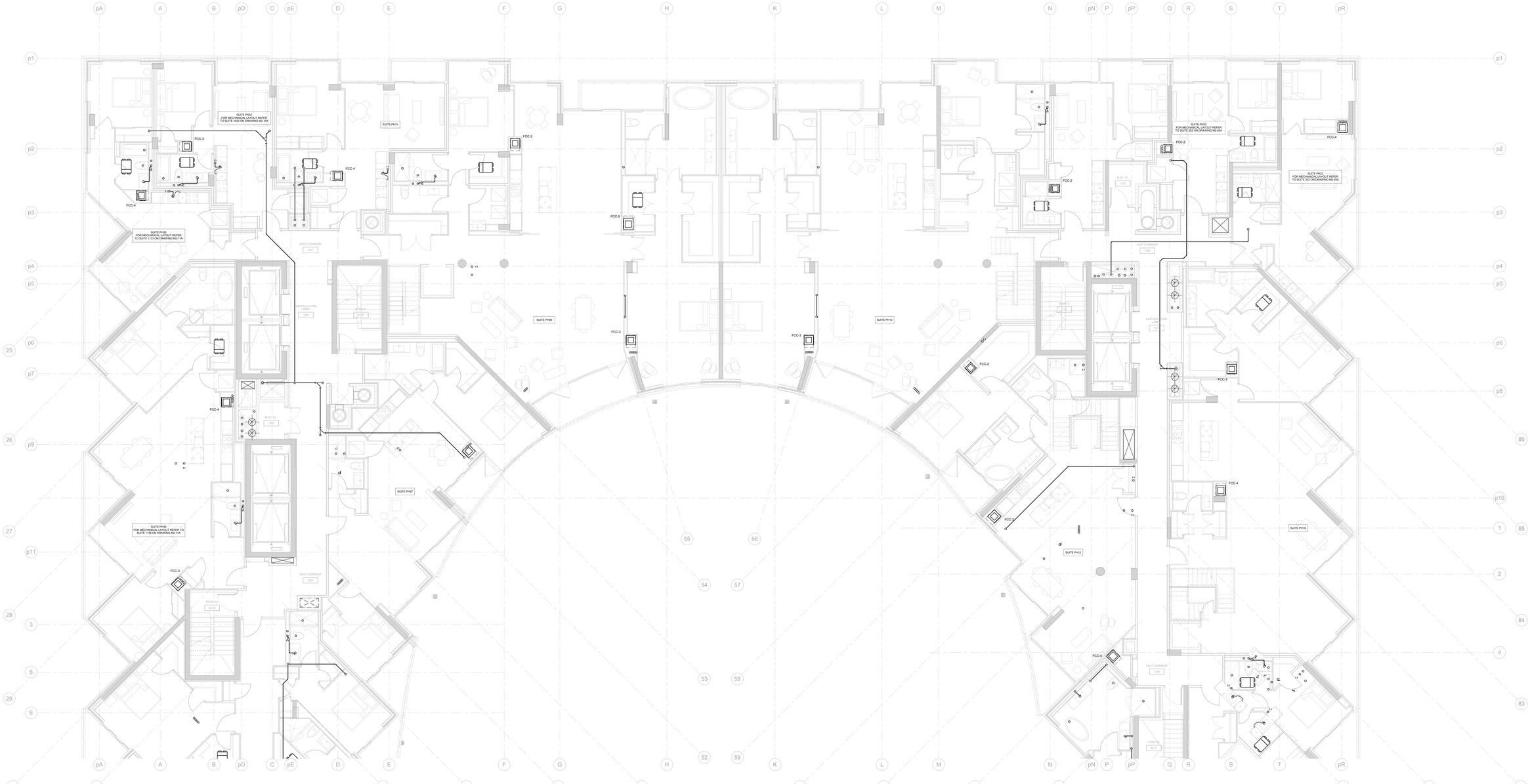
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FOR MECHANICAL LAYOUT REFER TO SUITE 1032 ON DRAWING M2-10A
SUITE PH31
SUITE PH33
FOR MECHANICAL LAYOUT REFER TO SUITE 1133 ON DRAWING M2-11A
SUITE PH35
FOR MECHANICAL LAYOUT REFER TO SUITE 1135 ON DRAWING M2-11A
SUITE PH23
FOR MECHANICAL LAYOUT REFER TO SUITE 223 ON DRAWING M2-03A
SUITE PH22
FOR MECH. LAYOUT REFER TO SUITE 222 ON DRAWING M2-03A
SUITE PH03
SUITE PH10
SUITE PH07
SUITE PH12
SUITE PH18
WEST CORRIDOR
1001
WEST ELEVATOR LOBBY
1002
MEN
1003
WOMEN
1004
ELEC. CL.
1006
STAIR 1
1007
EAST CORRIDOR
1008
EAST ELEVATOR LOBBY
1009
STAIR 2
1010
EAST CORRIDOR
1011
FCC-2
FCC-3
FCC-4
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FCC-6
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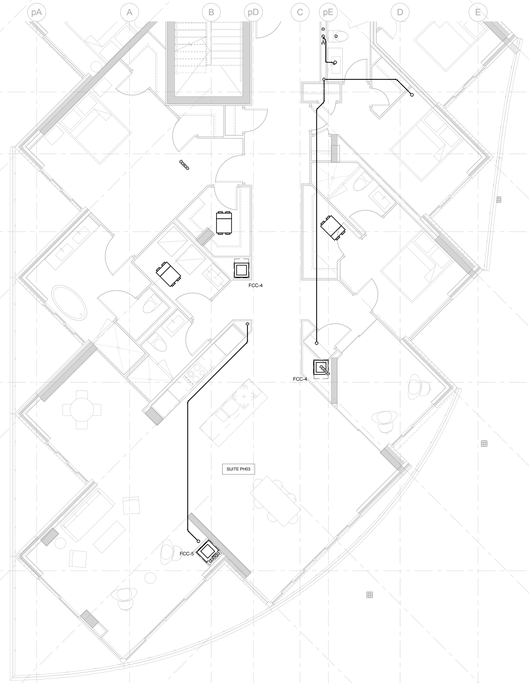

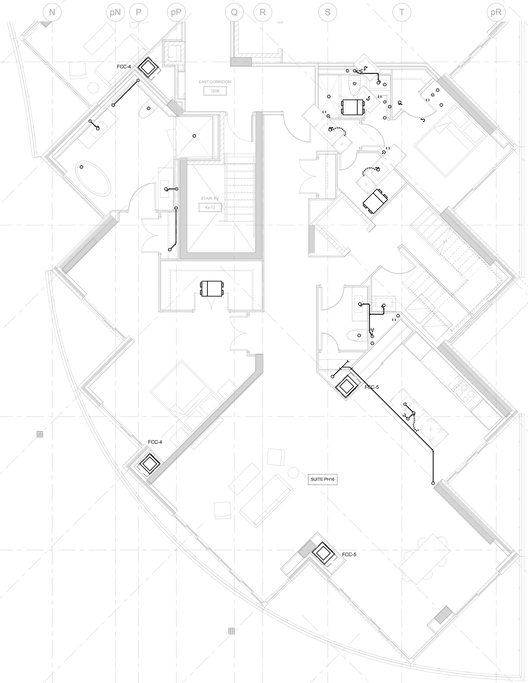

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No.	Revision	Date

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

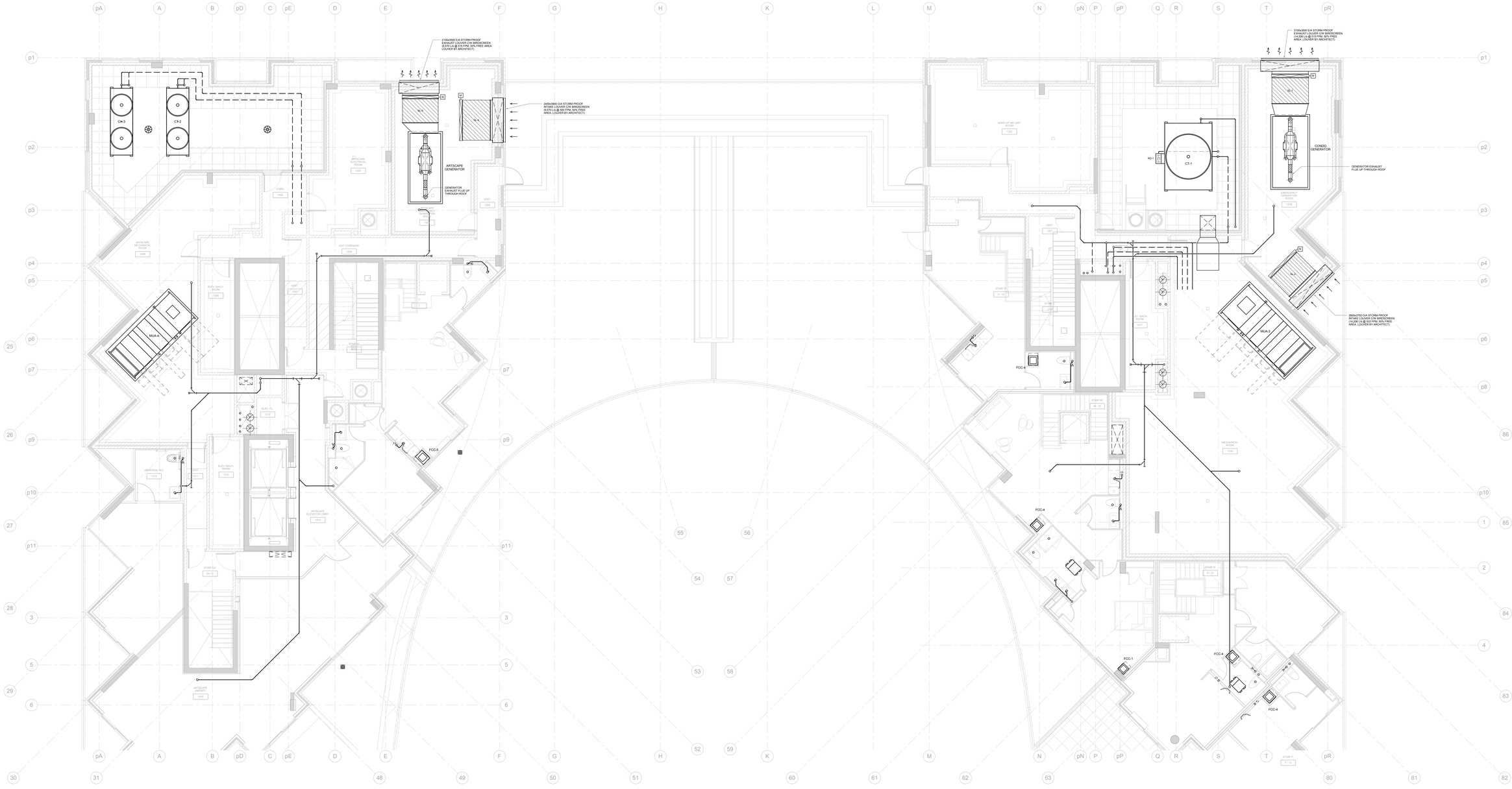
LEVEL PH1 FLOOR PLAN
SOUTH - MECHANICAL

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	03/04/15
Drawing No.	M2-12B

N



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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

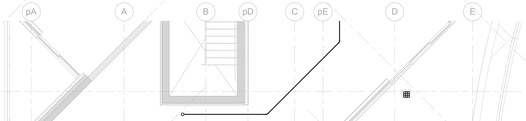
LEVEL PH2 FLOOR PLAN
NORTH - MECHANICAL

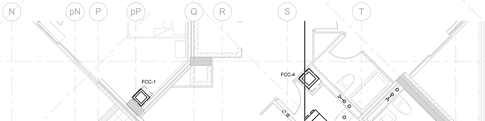
Project

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	03/04/15
Drawing No.	M2-13A

N





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No.	Revision	Date

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

LEVEL PH2 FLOOR PLAN
SOUTH - MECHANICAL

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	03/04/15

Drawing No.

M2-13B

Plot Date: 12/06/2015 10:31:22 AM File Path: C:\Users\ashmolin\Dr #\Documents\8489D - Aquavista - MEP_Mech_P.rvt

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type
ROOF PLAN NORTH - MECHANICAL

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: 04/30/15
Drawing No.: M2-14A

N

Plot Date: 12/06/2015 10:31:31 AM File Path: C:\Users\cmcwilliam\Dr\Documents\8489D - Aquavista - MEP_Work_Fr.rvt

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type

ROOF PLAN SOUTH - MECHANICAL

Project

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

Scale: 1 : 50

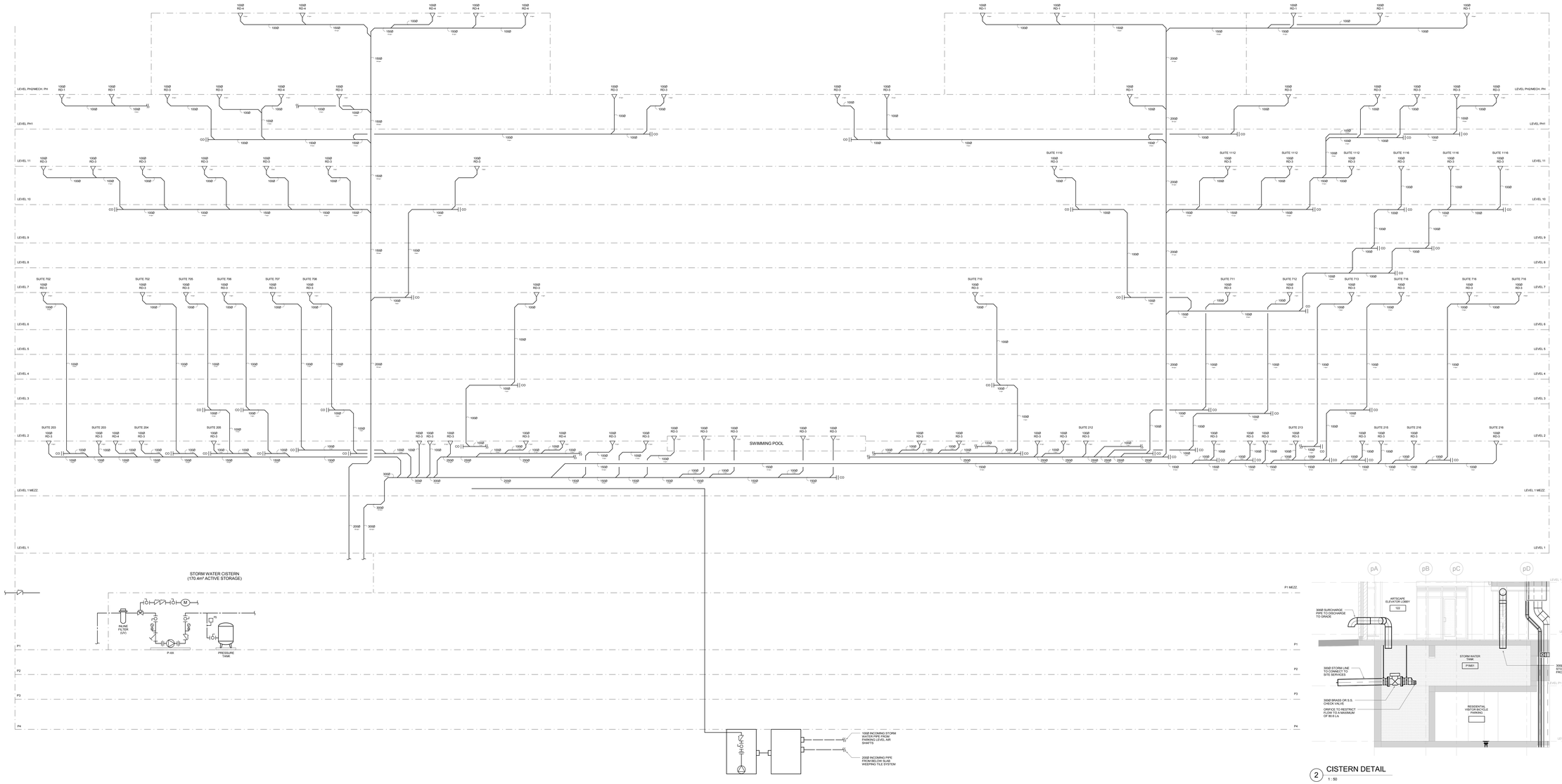
Drawn by: Author

Checked by: Checker

Project No.: 8489D

Date: 04/30/15

Drawing No.: M2-14B



2 CISTERN DETAIL
1 : 50

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Date: 02/04/14

D. C. M. BELAMY
100150683
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No.	Revision	Date
2		
1	BUILDING PERMIT SUBMISSION	2015-06-15

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

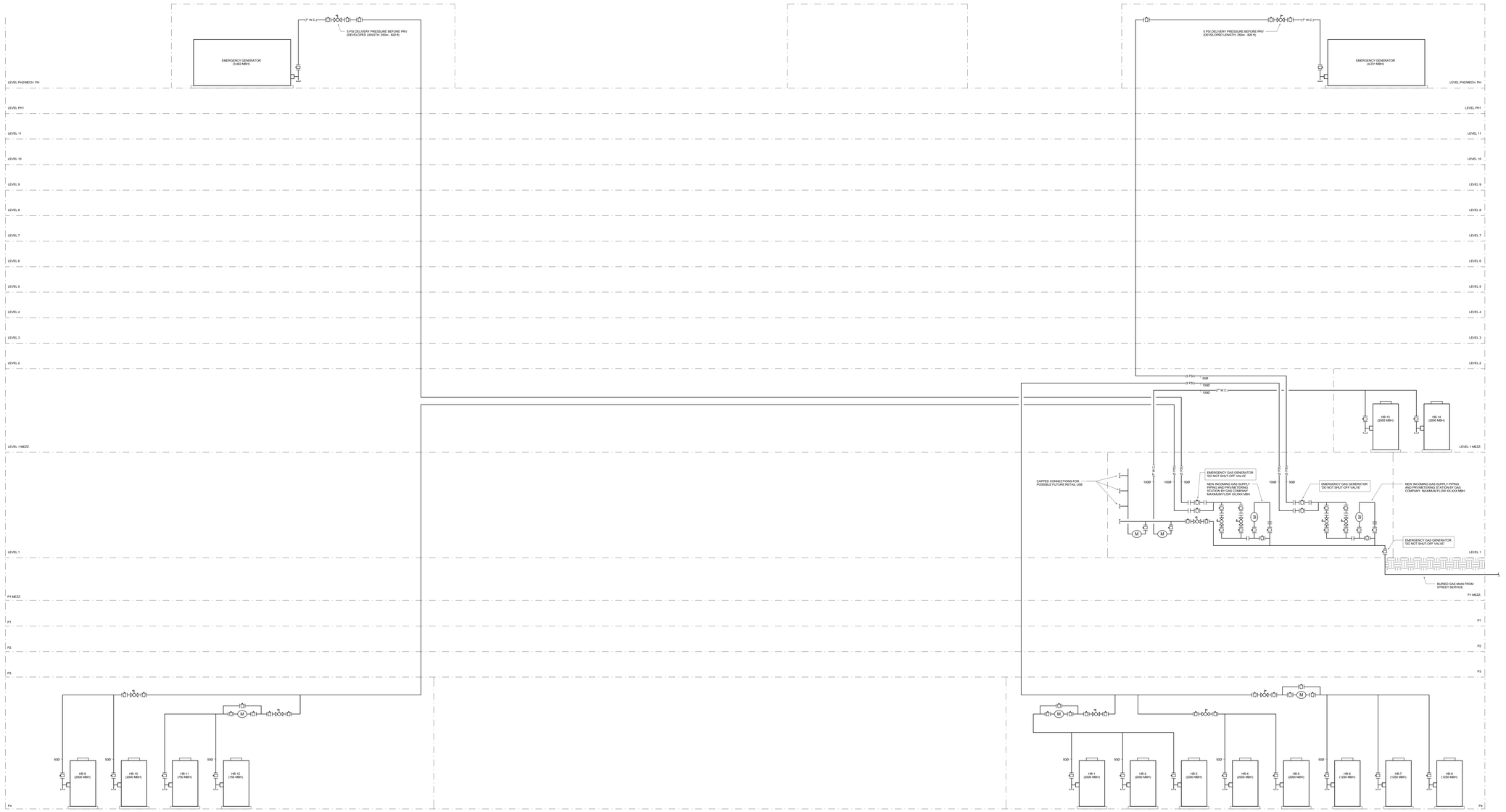
Drawing Type
STORM SCHEMATIC

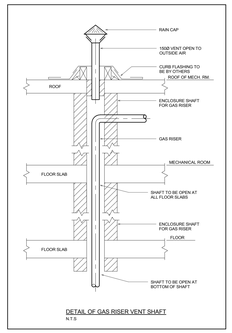
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	As indicated
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	02/04/14
Drawing No.	M4-01

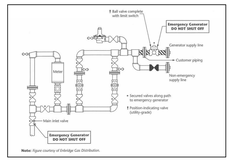
N

Plot Date: 12/06/2015 10:31:38 AM File Path: C:\Users\cadmin\Desktop\Temp Working Files\8489D — Aquavista — MEP_Work_Files\





DETAIL OF GAS RISER VENT SHAFT
N.T.S.



Note: figure courtesy of Enbridge Gas Distribution.

NOTES:
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No.	Revision	Date

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

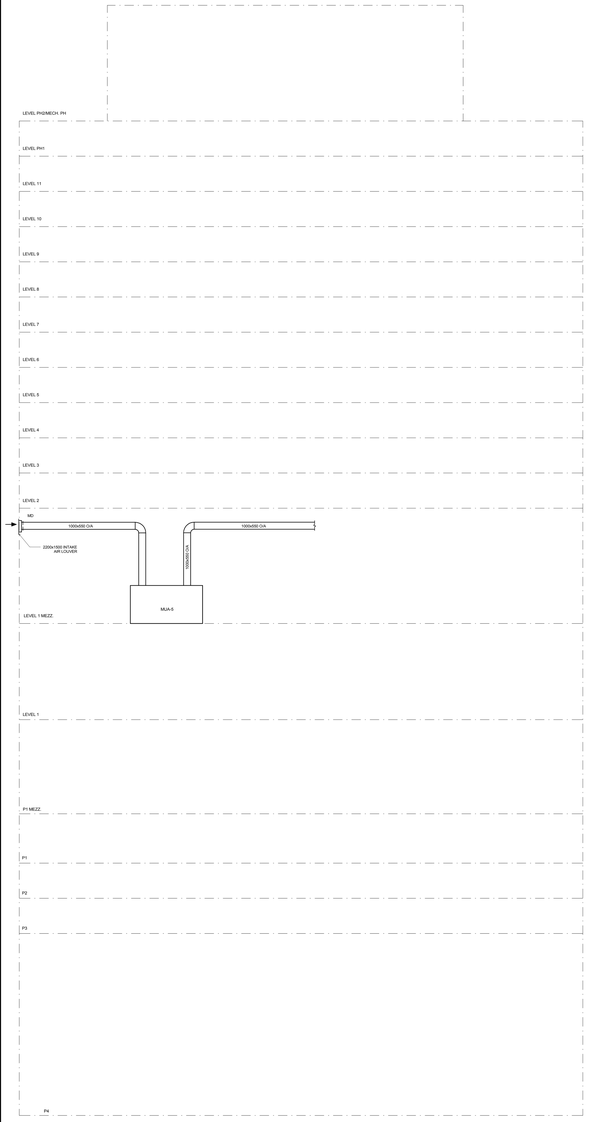
Drawing Title
NATURAL GAS SCHEMATIC

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

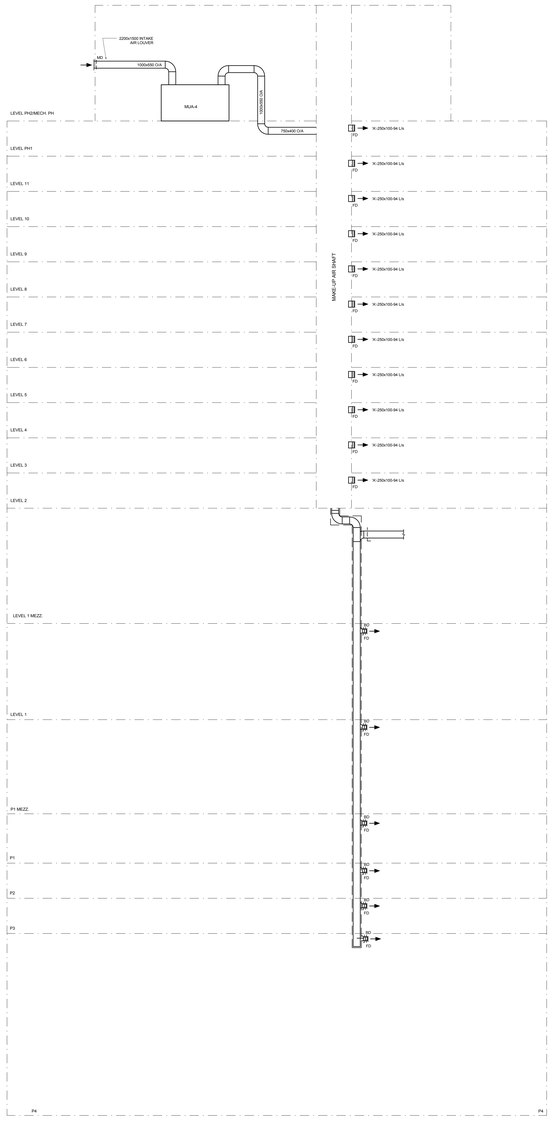
Scale: 1 : 1
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 02/04/14
Drawing No.: M4-02

N

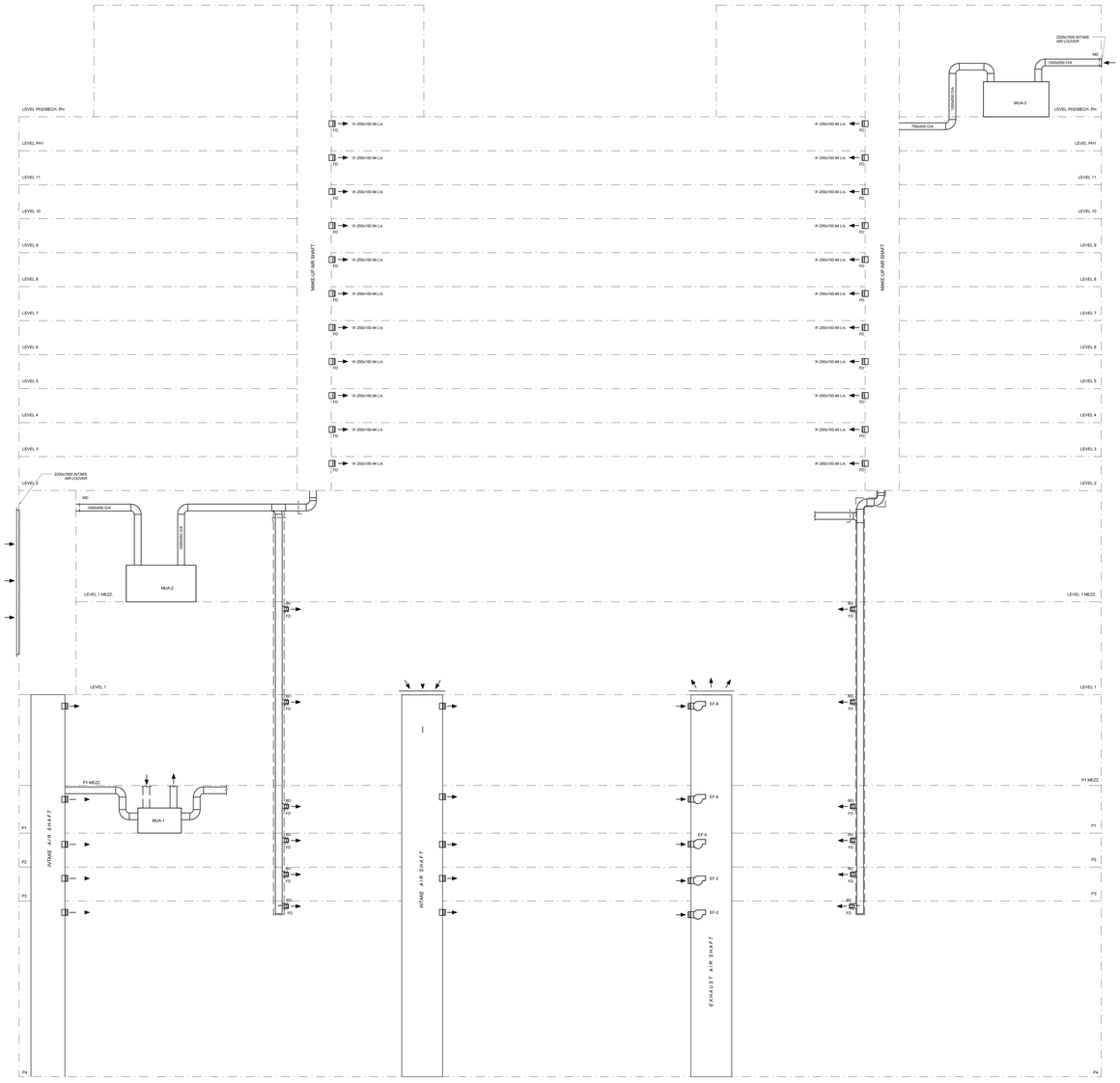
Plot Date: 12/06/2015 10:51:33 AM File Path: C:\Users\cadmin\Desktop\Revit Documents\8489D - Aquavista - MEP_Mech_P.rvt



RETAIL AIR DISTRIBUTION SCHEMATIC



ARTSCAPE AIR DISTRIBUTION SCHEMATIC



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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-13

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

AIR DISTRIBUTION SCHEMATICS

Project

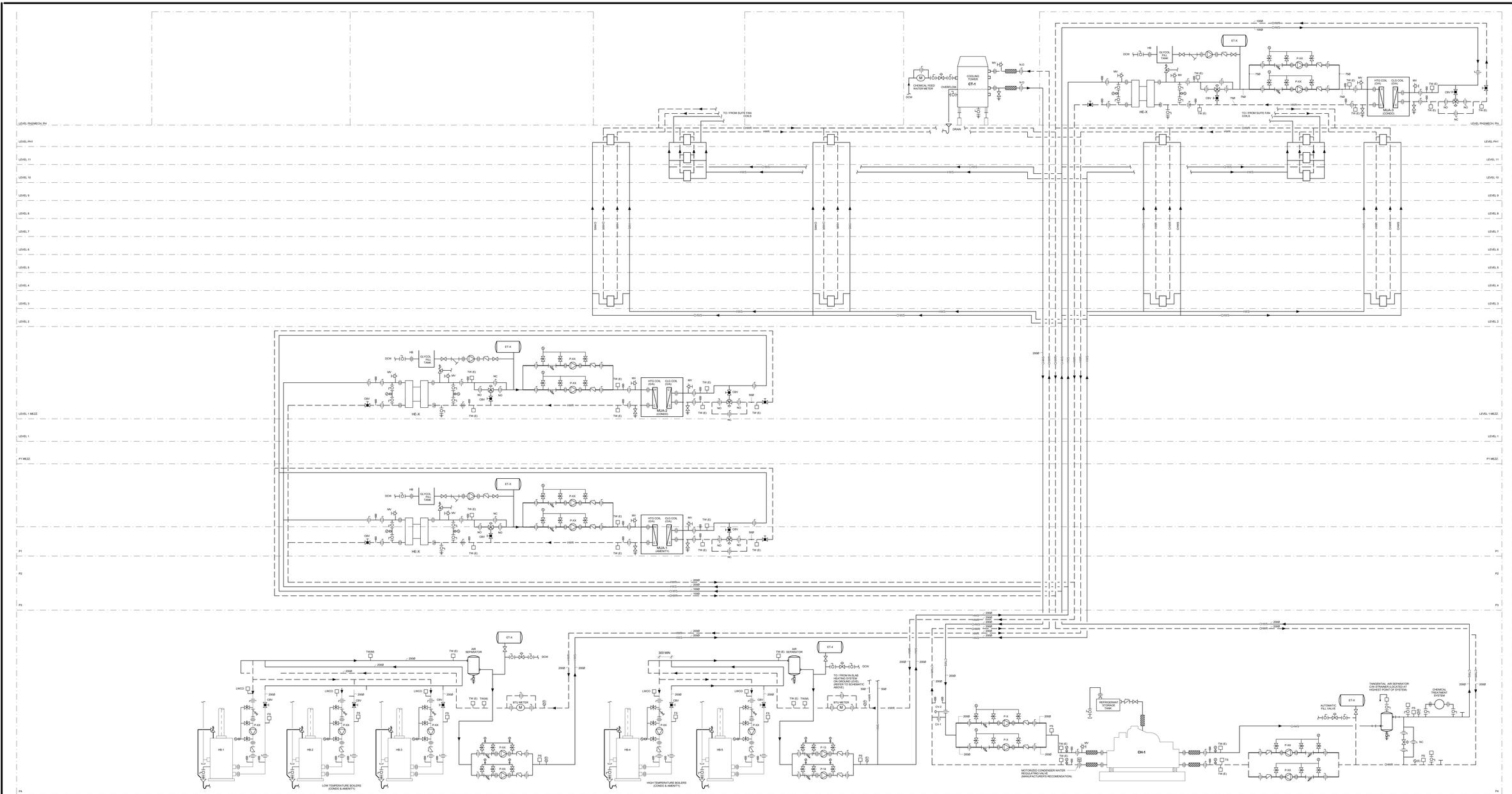
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	1 : 1
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	02/04/14

Drawing No.

M4-03

Plot Date - 12/06/2015 10:31:41 AM File Path - C:\Users\cadmonkey\Desktop\Central_8489D — Revit2015 — MEP_Work_Fr.rvt



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No.	Revision	Date

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

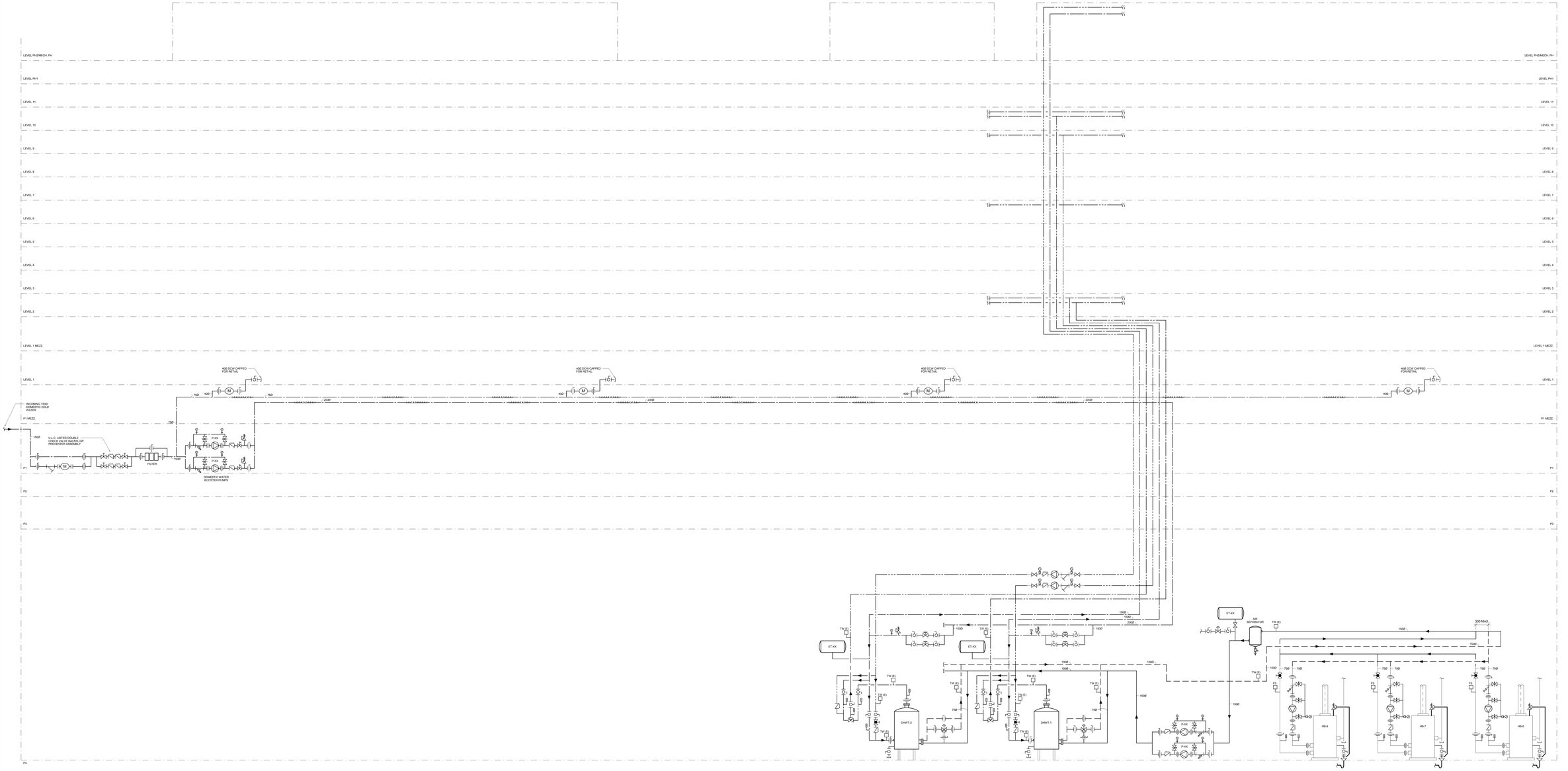
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - HEATING & COOLING SCHEMATIC

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

Scale: NTS.
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 02/04/14
Drawing No.: M4-11

Plot Date: 12/06/2015 10:31:42 AM File Path: C:\Users\jsilverstein\AC\Documents\8489D — Aquavista — MEP_Block_R3.rvt



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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

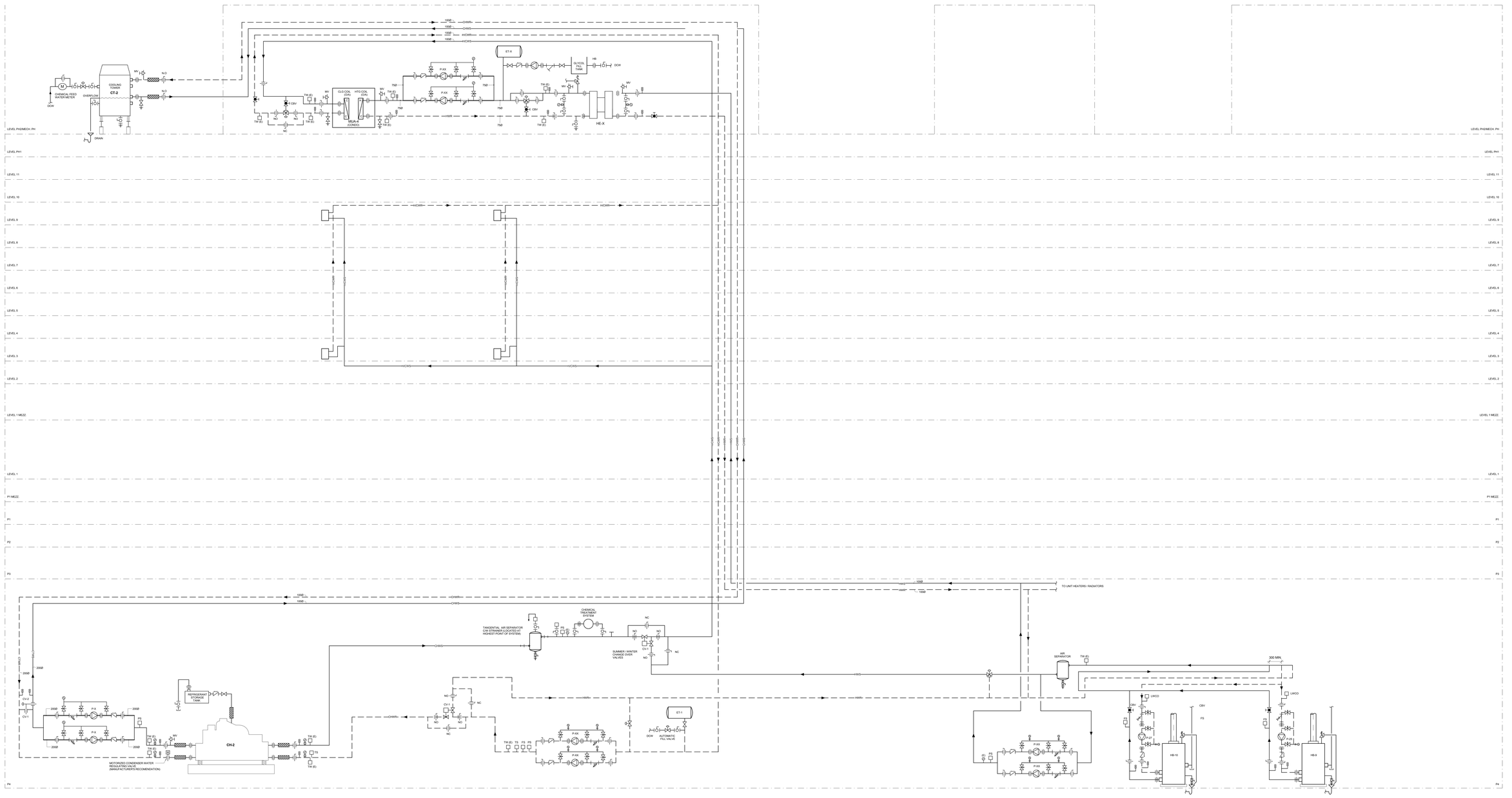
Drawing Type
CONDO - DOMESTIC WATER RISER DIAGRAM

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

Scale: 1 : 1
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 02/04/14
Drawing No.: M4-13

N

Plot Date: 12/06/2015 10:51:43 AM File Path: C:\Users\jsilvestro\ac3d\Documents\8489D — Aquavista — MEP_Block_R.rvt



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No.	Revision	Date

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type
ARTSCAPE - HEATING & COOLING SCHEMATIC

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

Scale
NTS.

Drawn by
Author

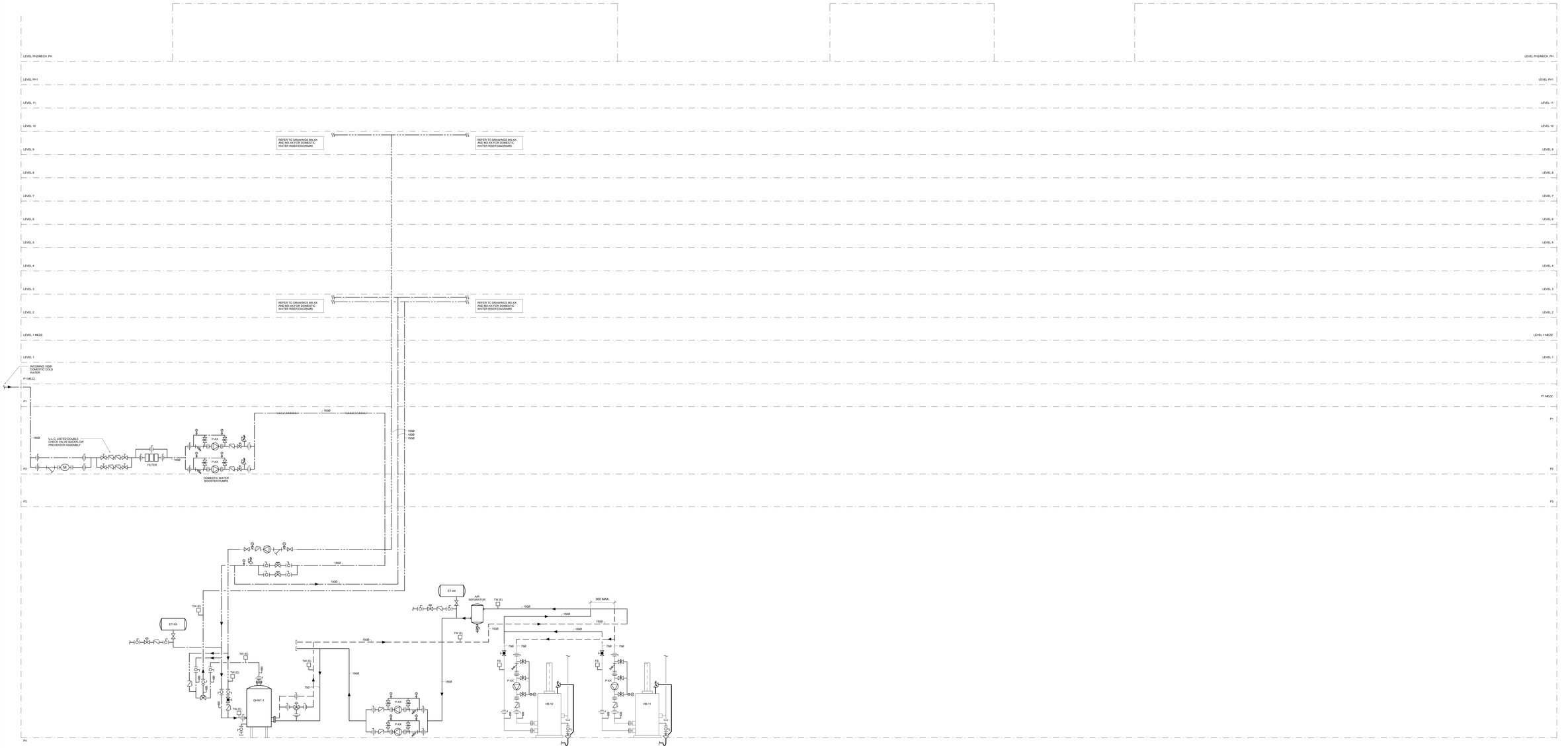
Checked by
Checker

Project No.
8489D

Date
04/08/15

Drawing No.
M4-21

Plot Date: 12/06/2015 10:31:43 AM File Path: C:\Users\cadmonkey\AppData\Local\Temp\AcPublish_6480\Aquavista — Revisions — MEP_Block_P.rvt



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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type
ARTSCAPE - DOMESTIC WATER SCHEMATIC

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

Scale: 1 : 1
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 04/08/15
Drawing No.: M4-23

N

Plot Date: 12/08/2015 10:51:48 AM File Path: C:\Users\jsimmons\Documents\8489D — Aquavista — MEP_Block_R3.rvt

WATER CHILLER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	COOLER / EVAPORATOR				SAT. DISCHARGE TEMP. (°C)	CONDENSER				SAT. DISCHARGE TEMP. (°C)	INPUT POWER (kW)	NPVL	REFRIGERANT	NO. OF COMPRESSOR	STEPS OF UNLOADING	MANUFACTURER	OPERATING WEIGHT (KG)	MODEL No.	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY					STARTER			CONTROLS		OTHER REQUIREMENTS					OTHERS	REMARKS:
						FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)		FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)													VOLTS	PHASE	FED FROM	EM.	NORM	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
CHC-01	MAG. CENTRI CHILLER	C/ROOM P4	2 PIPE FCU SYSTEM	CONDO	1195	91.5	11.1	6.6	48	-	94.4	29.4	35.0	39	35.7	205	0.356	R-134A	-	-	MCQUAY- DAIKIN	-	WMC4000	270	350	575	3	-	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	DIV. 15	-	-		MAGNETIC BEARING CHILLER c/w AUTOTRANSLINEATOR EQUIVALENT TO 200HP

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15750 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.

COOLING TOWER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	SUMMER			OUTDOOR TEMP. WB. (°C)	WINTER			TUBES PRESS. DROP (KPA)	MODEL	OPERATING WEIGHT (KG)	MANUFACTURER	FAN HEATER (KW)	FAN MOTOR (KW)	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY				STARTER			CONTROLS		OTHER REQUIREMENTS				OTHERS	REMARKS:
						FLOW (L/S)	EWT (°C)	LWT (°C)		FLOW (L/S)	EWT (°C)	LWT (°C)									VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
CTC-01	INDUCED DRAFT	ROOF	CHILLER # 1	CONDO	1195	64.4	35.0	29.4	24.4	-	-	-	-	-	-	BALTIMORE AIRCOIL	12	15.0	-	-	575	3	-	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	-	VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS. BASIN HEATER, LOW SOUND FAN. PROVIDE ALL INTERIOR WIRING AND CONTROL BY DIV 15 CONTRACTOR.

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15750 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.

BOILER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	INPUT (KW)	OUTPUT (KW)	GAS TRAIN INLET PRESSURE (KPA)	OPERATING PRESSURE MAX. (KPA)	OPERATING TEMP. MAX. (°C)	MANUFACTURER	MODEL	AMPERE	POWER SUPPLY				STARTER			CONTROLS			OTHER REQUIREMENTS				OTHERS	REMARKS:
													VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
HBC-01	LOW HEATING BOILER	MROOM P4	FCU HEATING	CONDO	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	-	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-02	LOW HEATING BOILER	MROOM P4	FCU HEATING	CONDO	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	-	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-03	LOW HEATING BOILER	MROOM P4	FCU HEATING	CONDO	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	-	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-04	HIGH HEATING BOILER	MROOM P4	HIGH HEATING	CONDO	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	-	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-05	HIGH HEATING BOILER	MROOM P4	HIGH HEATING	CONDO	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	-	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-06	DHW HEATING BOILER	MROOM P4	DHW SYSTEM	CONDO	366	352	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 1251	10	120	1	-	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-07	DHW HEATING BOILER	MROOM P4	DHW SYSTEM	CONDO	366	352	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 1251	10	120	1	-	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-08	DHW HEATING BOILER	MROOM P4	DHW SYSTEM	CONDO	366	352	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 1251	10	120	1	-	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15750 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. PROVIDE FLOW SWITCH, LOW WATER CUT OFF, PRESSURE REDUCING VALVES, AUX. CONTACTS FOR BAS.
7. PROVIDE FLOW SWITCH, LOW WATER CUT OFF, PRESSURE REDUCING VALVES, AUX. CONTACTS FOR BAS.

MAKE UP AIR UNIT SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	COOLING			HEATING			P.W.L. db RE 10^12 WATTS OCTAVE BAND								E.S.P. (KPA)	MANUFACTURER	MODEL	ERV MOTOR (KW)	EXHAUST FAN MOTOR (KW)	SUPPLY FAN MOTOR (KW)	F. LOAD AMPS	MAX. FUSE AMPS	POWER SUPPLY				STARTER		TYPE	CONTOLS			OTHER REQUIREMENTS:			OTHERS	REMARKS:
							TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	1	2	3	4	5	6	7	8								VOLTS	PHASE	FED FROM	EM.	NORM	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT		
MAUC-01	AMENITY MAU	LEVEL P1	AMENITY	CONDO	1415	1275	17.2	11.6	0.8	88.3	-	2.0									0.3/0.37	MCQUAY DAIKIN	CAH010DDAM	0.37	3.7	5.6	-		575	3	-	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, FIRE STAT, DUCT STAT & HEAT WHEEL, DUCT MOUNTED DAMPER,MAGNEHELIC FILTER GAUGES, PRESSURE DIFFERENTIAL C. O. REPORT. VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS. COIL BYPASS. INLET MOTORIZED DAMPER,MAGNEHELIC FILTER GAUGES, PRESSURE DIFFERENTIAL SENSORS, ALARM TO BMS WHEN PRESSURE DROP EXCEEDS 1.2 IN WG. AS RECOMMENDED BY THE FILTER MANUFACTURER. POWER SUPPLY - 575V/3PHSH - 2 NOS. AND 120V/1PHSH - 1 NO.
MAUC-02	CONDO MAU	LEVEL L1 MZ	CORRIDOR	CONDO	3775	-	84.4	46.1	3.2	218	-	5.1									0.30	MCQUAY DAIKIN	CAH057DDAC	-	-	11.2	-		575	3	-	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, FIRE STAT, DUCT STAT & MERV 8 PRE & MERV 13 CARBON FILTER AS PER A. Q. REPORT. VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS. COIL BYPASS. INLET MOTORIZED DAMPER,MAGNEHELIC FILTER GAUGES, PRESSURE DIFFERENTIAL SENSORS, ALARM TO BMS WHEN PRESSURE DROP EXCEEDS 1.2 IN WG. AS RECOMMENDED BY THE FILTER MANUFACTURER.
MAUC-03	CONDO MAU	LEVEL PH	CORRIDOR	CONDO	4010	-	96.3	53.5	4.3	227	-	5.3									0.30	MCQUAY DAIKIN	CAH075DDAC	-	-	11.2	-		575	3	-	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, FIRE STAT, DUCT STAT & MERV 8 PRE & MERV 13 CARBON FILTER AS PER A. Q. REPORT. VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS. COIL BYPASS. INLET MOTORIZED DAMPER,MAGNEHELIC FILTER GAUGES, PRESSURE DIFFERENTIAL SENSORS, ALARM TO BMS WHEN PRESSURE DROP EXCEEDS 1.2 IN WG. AS RECOMMENDED BY THE FILTER MANUFACTURER.

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15750 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECH. CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. ANY INCREASE IN ELECT. COSTS DUE TO MECH. EQUIPMENT SUBSTITUTION TO BE CARRIED BY DIVISION 15.

COOLING / HEATING COIL SCHEDULE

REFERENCE	DESCRIPTION	SERVICE	OWNERSHIP	TOTAL AIR FLOW (L/S)	COIL AIR FLOW (L/S)	COOLING CAPACITY (KW)		HEATING CAPACITY (KW)	COOLING						HEATING						FLUID	MANUFACTURER	REMARKS:	NOTES:
						TOTAL	SENSIBLE		EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DP. (KPA)	EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DP. (KPA)				
CC-01	COOLING COIL	MAUC-01 COOLING	CONDO	1415	708	17.2	11.6	-	28.6/18.4	12.8/12.2	0.8	5.6	11.1	6	-	-	-	-	-	-	WATER	MCQUAY DAIKIN		
HC-01	HEATING COIL	MAUC-01 HEATING	CONDO	1415	1415	-	-	88.3	-	-	-	-	-	-	-20.0	27.7	2.0	71.1	80.0	15	40% P.GLY	MCQUAY DAIKIN		
CC-02	COOLING COIL	MAUC-02 COOLING	CONDO	3775	2030	85	46	-	31.1/23.3	12.5/12.1	3.2	5.6	11.1	26	-	-	-	-	-	-	WATER	MCQUAY DAIKIN		
HC-02	HEATING COIL	MAUC-02 HEATING	CONDO	3775	3775	-	-	218	-	-	-	-	-	-	-20.0	26.5	5.1	71.1	80.0	22	40% P.GLY	MCQUAY DAIKIN		
CC-03	COOLING COIL	MAUC-03 COOLING	CONDO	4010	2360	96.3	53.5	-	31.1/23.3	12.0/11.9	4.3	5.6	11.1	44	-	-	-	-	-	-	WATER	MCQUAY DAIKIN		
HC-03	HEATING COIL	MAUC-03 HEATING	CONDO	4010	4010	-	-	227	-	-	-	-	-	-	-20.0	25.8	5.3	71.1	80.0	25	40% P.GLY	MCQUAY DAIKIN		

ENERGY RECOVERY VENTILATOR SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	NORMAL SPEED OPERATION		HIGH SPEED OPERATION		E.S.P. (KPA)	ENT. AIR TEMP. (C)		MANUFACTURER	MODEL	ENERGY REQUIRED (AMPS)	MOTOR SIZE (KW)	POWER SUPPLY				STARTER		TYPE	CONTOLS			OTHER REQUIREMENTS:				OTHERS	REMARKS:	NOTES:
					SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	SUPPLY AIR (L/S)	EXHAUST AIR (L/S)		WINTER	SUMMER					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT			
ERVC-A	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	CONDO	25	22.5	50	45	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	115	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS. ECM MOTOR AND CONTROLS	
ERVC-B	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	CONDO	30	27	50	45	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	115	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS. ECM MOTOR AND CONTROLS	
ERVC-C	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	CONDO	35	31.5	60	54	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	115	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS. ECM MOTOR AND CONTROLS	
ERVC-D	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	CONDO	45	36	60	54	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	115	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS. ECM MOTOR AND CONTROLS	
ERVC-E	ENERGY RECOVERY UNIT	AMENITY PH	AMENITY PH	CONDO	310	280	310	280	0.10	-20	32.2	LIFEBREATH	1200ERV	8	2 x 0.2	115	1	SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS AND CONTROLS	

HEAT EXCHANGER SCHEDULE

REFERENCE	LOCATION	SERVICE	OWNERSHIP	PRIMARY						SECONDARY						FUNCTION	MANUFACTURER	TYPE	MODEL NUMBER	REMARKS:	NOTES:
				FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)	FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)						
HEC-01	MAU ROOM P1	MAUC-01 HEATING	CONDO	WATER	1.9	22	82.2	71.1	1034	40% P.GLY.	2.0	24	60.0	71.1	1034	HEATING	BELL & GOSSETT	PLATE AND FRAME	P07		
HEC-02	MAU ROOM L1 MZ	MAUC-02 HEATING	CONDO	WATER	-	-	82.2	71.1	1034	40% P.GLY.	-	-	60.0	71.1	1034	HEATING	BELL & GOSSETT	PLATE AND FRAME	-		
HEC-03	MAU ROOM PH	MAUC-03 HEATING	CONDO	WATER	-	-	82.2	71.1	1034	40% P.GLY.	-	-	60.0	71.1	1034	HEATING	BELL & GOSSETT	PLATE AND FRAME	-		

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

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - EQUIPMENT SCHEDULES #1

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

Scale: 1 : 1
Drawn by: S.J
Checked by: Checker
Project No: 8489D
Date: 08/29/12
Drawing No: ME-11

Plot Date: 12/08/2015 10:31:47 AM File Path: C:\Users\sjohnston\AppData\Local\Temp\AcPublish_6436\~ - Aquavista - MEP_Block_R3.rvt

PUMP SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	WATER FLOW (L/S)	HEAD (KPA)	RPM	MANUFACTURER	TYPE / SIZE	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER				CONTROLS				OTHER REQUIREMENTS			REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:		INSTALLED BY:		TYPE	MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
																DIV. 15	DIV. 16	DIV. 15	DIV. 16				DIV. 15	DIV. 16				
PC-01	CONDENSER WATER PUMP	MROOM P4	CONDO	64.4	274	1800	ARMSTRONG	4300 9811-040	-	30.0	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY,
PC-02	CONDENSER WATER PUMP	MROOM P4	CONDO	64.4	274	1800	ARMSTRONG	4300 9811-040	-	30.0	575	3																
PC-3	CHILLED WATER PUMP	MROOM P4	CONDO	51.5	324	1800	ARMSTRONG	4300 9811-040	-	30.0	575	3	-	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE; - ONE DUTY / ONE STANDBY - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PC-4	CHILLED WATER PUMP	MROOM P4	CONDO	51.5	324	1800	ARMSTRONG	4300 9811-040	-	30.0	575	3								VFD								
PC-5	BOILER # 1 PUMP	MROOM P4	CONDO	8.8	74	1800	ARMSTRONG	4380 0306-002		1.5	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PC-6	BOILER # 2 PUMP	MROOM P4	CONDO	8.8	74	1800	ARMSTRONG	4380 0306-002		1.5	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PC-7	BOILER # 3 PUMP	MROOM P4	CONDO	8.8	74	1800	ARMSTRONG	4380 0306-002		1.5	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PC-8	BOILER # 4 PUMP	MROOM P4	CONDO	8.8	60	1800	ARMSTRONG	4380 0306-01.5		1.1	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PC-9	BOILER # 5 PUMP	MROOM P4	CONDO	8.8	60	1800	ARMSTRONG	4380 0306-01.5		1.1	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PC-10	HIGH TEMP. SEC. PUMP	MROOM P4	CONDO	18.0	195	1800	ARMSTRONG	-		-	575	3	-	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE; - ONE DUTY / ONE STANDBY - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PC-11	HIGH TEMP. SEC. PUMP	MROOM P4	CONDO	18.0	195	1800	ARMSTRONG	-		-	575	3								VFD								
PC-12	LOW TEMP. SEC. PUMP	MROOM P4	CONDO	28.4	255	1800	ARMSTRONG	4300 9810-020		15.0	575	3	-	YES	-	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE; - ONE DUTY / ONE STANDBY - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PC-13	LOW TEMP. SEC. PUMP	MROOM P4	CONDO	28.4	255	1800	ARMSTRONG	4300 9810-020		15.0	575	3								VFD								
PC-14	MUA-1 HEATING PUMP	MROOM P1	CONDO	2.0	125	1800	ARMSTRONG	4380 1508-501.5		1.1	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY,
PC-15	MUA-1 HEATING PUMP	MROOM P1	CONDO	2.0	125	1800	ARMSTRONG	4380 1508-501.5		1.1	575	3																
PC-16	MUA-2 HEATING PUMP	MROOM L1 MZ	CONDO	5.1	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY,
PC-17	MUA-2 HEATING PUMP	MROOM L1 MZ	CONDO	5.1	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3																
PC-18	MUA-3 HEATING PUMP	MROOM PH	CONDO	5.3	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY,
PC-19	MUA-3 HEATING PUMP	MROOM PH	CONDO	5.3	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3																
PC-20	BOILER # 6 PUMP	MROOM P4	CONDO	5.7	80	1800	ARMSTRONG	4380 0206-501.5		1.1	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PC-21	BOILER # 7 PUMP	MROOM P4	CONDO	5.7	80	1800	ARMSTRONG	4380 0206-501.5		1.1	575	3	-	YES	-	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PC-22	BOILER # 8 PUMP	MROOM P4	CONDO	5.7	80	1800	ARMSTRONG	4380 0206-501.5		1.1	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PC-23	DHW HEATING SEC. PUMP	MROOM P4	CONDO	19.2	170	1800	ARMSTRONG	4300 0308-507.5		5.6	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT; - ONE DUTY / ONE STANDBY
PC-24	DHW HEATING SEC. PUMP	MROOM P4	CONDO	19.2	170	1800	ARMSTRONG	4300 0308-507.5		5.6	575	3																
PC-25	DOMESTIC BOOSTER PUMP	MROOM P1	CONDO	-	-	3525	GRUNDFOS	-	-	-	575	3	-	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	PACKAGE C/W CONTROL PANEL, VFD, PRV'S AND EXPANSION TANK PRESSURES REQUIRED AFTER PRV - MANUFACTURER TO CONFIRM STREET PRESSURE AT SITE PRIOR TO MANUFACTURE OF PUMPS. VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PC-26	DOMESTIC BOOSTER PUMP	MROOM P1	CONDO	-	-	3525	GRUNDFOS	-	-	-	575	3								VFD								
PC-27	DOMESTIC BOOSTER PUMP	MROOM P4	CONDO	-	-	3525	GRUNDFOS	-	-	-	575	3	-	YES	-	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	
PC-28	FIRE PUMP	MROOM	CONDO	-	-	3600	ARMSTRONG	-	-	-	575	3	-	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	PACKAGE UNIT C/W ULC LABELLED, CONTROLLER REDUCED VOLTAGE STARTER TRANSFER SWITCH AND JOCKEY PUMP.
PC-29	JOCKEY PUMP	MROOM	CONDO	-	-	3600	ARMSTRONG	-	-	-	575	3																
PC-30	SANITARY SUMP PUMP	FD LEVEL	CONDO	-	-	1800	BARNES	-	-	-	575	3	-	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.
PC-31	SANITARY SUMP PUMP	FD LEVEL	CONDO	-	-	1800	BARNES	-	-	-	575	3																
PC-32	STORM SUMP PUMP	FD LEVEL	CONDO	-	-	1800	BARNES	-	-	-	575	3	-	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.
PC-33	STORM SUMP PUMP	FD LEVEL	CONDO	-	-	1800	BARNES	-	-	-	575	3																
PC-34	WEEPING SUMP PUMP	FD LEVEL	CONDO	-	-	1800	BARNES	-	-	-	575	3	-	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.
PC-35	WEEPING SUMP PUMP	FD LEVEL	CONDO	-	-	1800	BARNES	-	-	-	575	3																
PC-36	ELEVATOR SUMP PUMP (S)	FD LEVEL	CONDO	-	-	1800	BARNES	-	-	-	575	3	-	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.
PC-37	ELEVATOR SUMP PUMP (S)	FD LEVEL	CONDO	-	-	1800	BARNES	-	-	-	575	3																
PC-38	ELEVATOR SUMP PUMP (N)	FD LEVEL	CONDO	-	-	1800	BARNES	-	-	-	575	3	-	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.
PC-39	ELEVATOR SUMP PUMP (N)	FD LEVEL	CONDO	-	-	1800	BARNES	-	-	-	575	3																
PC-40	DHW RECIR. PUMP	MROOM P4	CONDO	-	-	1800	S.A.ARMSTRONG	-	-	-	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	YES	-	C/W BRONZE & ISOLATION DISCONNECT
PC-41	DHW RECIR. PUMP	MROOM P4	CONDO	-	-	1800	S.A.ARMSTRONG	-	-	-	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	YES	-	C/W BRONZE & ISOLATION DISCONNECT
PC-42	DHW RECIR. PUMP	MROOM P3	CONDO	-	-	1800	S.A.ARMSTRONG	-	-	-	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	YES	-	C/W BRONZE & ISOLATION DISCONNECT
PC-43	EXCESS PRESSURE PUMP	MROOM	BY OTHERS						-	-	120	1	-	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	-		

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION 15400 AND 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. MECHANICAL CONTRACTOR TO PROVIDE PUMPS WITH AUTOMATIC SWITCH OVER ON PUMP FAILURE.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING EQUIPMENT ORDERED ON ELECTRICAL WIRING INSTALLED.
6. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.

VERTICAL FAN COIL SCHEDULE - 4 PIPE (SUITES)

REFERENCE	DESCRIPTION	OWNERSHIP	SUPPLY AIR (L/S)	E.S.P. (PA)	COOLING					HEATING				MANUFACTURER	MODEL	MOTOR SIZE (KW)	POWER SUPPLY					STARTER		TYPE	CONTOLS				OTHER REQUIREMENTS:			OTHERS	REMARKS:
					TOTAL (KW)	SENS (KW)	E.A.T. (°C)		WATER FLOW (L/S)	EWT (°C)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	EWT (°C)				VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT		
							DB	WB																			DIV. 15	DIV. 16					
FCC-01	SUITE 4 PIPES FANCOIL - VERTICAL	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	UNILUX	DSC350	0.10	120	1	SUITE PANEL - SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER
FCC-02	SUITE 4 PIPES FANCOIL - VERTICAL	CONDO	190	50	3.8	2.6	24.1	18.4	0.17	5.6	4.6	-	0.12	60.0	UNILUX	DSC450	0.16	120	1	SUITE PANEL - SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER
FCC-3	SUITE 4 PIPES FANCOIL - VERTICAL	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	UNILUX	DSC800	0.16	120	1	SUITE PANEL - SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER
FCC-4	SUITE 4 PIPES FANCOIL - VERTICAL	CONDO	378	50	8.8	5.5	24.1	18.4	0.31	5.6	10.3	-	0.24	60.0	UNILUX	DSC800	0.16	120	1	SUITE PANEL - SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER
FCC-5	SUITE 4 PIPES FANCOIL - VERTICAL	CONDO	472	50	10.2	6.6	24.1	18.4	0.35	5.6	12.2	-	0.29	60.0	UNILUX	DSC1000	0.33	120	1	SUITE PANEL - SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER

NOTES:

CHIMNEY EXHAUST FANS SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	AIR FLOW (L/S)	INLET PRESSURE (PA)	OPERATING WEIGHT (KG)	MANUFACTURER	MODEL	MOTOR SIZE (KW)	POWER SUPPLY					STARTER			CONTROLS				OTHER REQUIREMENTS			OTHERS	REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY:		DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
																						DIV. 15	DIV. 16					
VENTC-01	BOILER VENT	ROOF	BOILER # 1,2,3	CONDO	734	65	-	EXHAUSTO	RSV315	0.35	120	1	-	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FASNSEAL VENTING
VENTC-02	BOILER VENT	ROOF	BOILER # 4,5,	CONDO	576	87	-	EXHAUSTO	RSV315	0.35	120	1	-	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FASNSEAL VENTING
VENTC-03	BOILER VENT	ROOF	BOILER # 6,7,8	CONDO	680	17	-	EXHAUSTO	RSV315	0.35	120	1	-	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FASNSEAL VENTING

NOTES:

Contractor Must Check And Verify All Dimensions On The Job.
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Date: 02/04/14

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - EQUIPMENT SCHEDULES #2

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

Scale: 1 : 1
Drawn by: S.J
Checked by: Checker
Project No: 8489D
Date: 02/04/14
Drawing No: ME-12

Plot Date: 12/06/2015 10:51:48 AM File Path: C:\Users\sjohnston\Dr\Documents\8489D - Aquavista - MEP_Block_R3-R4

WATER CHILLER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	COOLER / EVAPORATOR				SAT. DISCHARGE TEMP. (°C)	CONDENSER				SAT. DISCHARGE TEMP. (°C)	INPUT POWER (kW)	IPVL	REFRIGERANT	NO. OF COMPRESSOR	STEPS OF UNLOADING	MANUFACTURER	OPERATING WEIGHT (KG)	MODEL No.	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY			STARTER			CONTROLS			OTHER REQUIREMENTS				OTHERS	REMARKS:
						FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)		FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)													VOLTS	PHASE	FED FROM	EM.	NORM	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
CHA-01	SCROLL CHILLER	CROOM P4	2 PIPE FCU SYSTEM	AFFORDABLE	384	16.6	11.1	6.6	35	-	20.7	29.4	35.0	28	35.7	84.5	20.3	R-410A	-	-	MCQUAY- DAIKIN	-	WGZ115D	181	225	575	3	-	-	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	DIV. 15	-	-	-

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.

COOLING TOWER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	SUMMER			OUTDOOR TEMP. WB. (°C)	WINTER			TUBES FREEZE DROP (KPA)	MODEL	OPERATING WEIGHT (KG)	MANUFACTURER	PAN HEATER (KW)	FAN MOTOR (KW)	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY			STARTER			CONTROLS			OTHER REQUIREMENTS				OTHERS	REMARKS:
						FLOW (L/S)	EWT (°C)	LWT (°C)		FLOW (L/S)	EWT (°C)	LWT (°C)									VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
CTA-01	INDUCED DRAFT	ROOF	CHILLER # 2	AFFORDABLE	384	20.7	35.0	29.4	24.4	-	-	-	-	PT2-0412A-1G1	-	BALTIMORE AIRCOIL	6	2 x 2.2	-	-	575	3	-	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	-	VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS , BASH HEATER, LOW WATER CUT OFF. PROVIDE ALL INTERIOR WIRING AND CONTROL BY DIV 15 CONTRACTOR

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.

BOILER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	INPUT (KW)	OUTPUT (KW)	GAS TRAIN INLET PRESSURE (KPA)	OPERATING PRESSURE MAX. (KPA)	OPERATING TEMP. MAX. (°C)	MANUFACTURER	MODEL	AMPERE	POWER SUPPLY					STARTER			CONTROLS				OTHER REQUIREMENTS				OTHERS	REMARKS:
													VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
HBA-01	HIGH/LOW HEATING BOILER	MROOM P4	HEATING SYSTEM	AFFORDABLE	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	21P-MT-2	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBA-02	HIGH/LOW HEATING BOILER	MROOM P4	HEATING SYSTEM	AFFORDABLE	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	21P-MT-2	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBA-03	DHW HEATING	MROOM P4	DHW SYSTEM	AFFORDABLE	220	212	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 0751	5	120	1	2P3MN-26	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBA-04	DHW HEATING	MROOM P4	DHW SYSTEM	AFFORDABLE	220	212	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 0751	5	120	1	2P3MN-28	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. PROVIDE MODULATING CENTRALISED CONTROLLER WITH INDOOR OUTDOOR RESET FOR BOILERS.
7. PROVIDE FLOW SWITCH, LOW WATER CUT OFF, PRESSURE REDUCING VALVES, AUX. CONTACTS FOR BAS.

MAKE UP AIR UNIT SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	COOLING			HEATING			P.W.L. db RE 10^12 WATTS OCTAVE BAND								E.S.P. (KPA)	MANUFACTURER	MODEL	EXHAUST FAN MOTOR (KW)	SUPPLY FAN MOTOR (KW)	F. LOAD AMPS	MAX. FUSE AMPS	POWER SUPPLY					STARTER		TYPE	CONTOLS				OTHER REQUIREMENTS:			OTHERS	REMARKS:
							TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	1	2	3	4	5	6	7	8								VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT		
MAUA-01	CONDO MUA	LEVEL PH	CORRIDOR	AFFORDABLE	3070	-	68.1	37.1	2.6	175.3	-	4.1									0.30	MCQUAY DAIKIN	CAH0140DAC	-	11.2			575	3	6P1MC-1.3.5	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, FIRE STAT, DUCT STAT & MERV 8 PRE & MERV 13 CARBON FILTER AS PER A.Q. REPORT. VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS. PROVIDE ALL INTERIOR WIRING AND CONTROL BY DIV 15 CONTRACTOR. PRESSURE DIFFERENTIAL SENSORS, ALARM TO BMS WHEN PRESSURE DROP EXCEEDS 1.2 IN W.G. AS RECOMMENDED BY THE FILTER MANUFACTURER.

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. ANY INCREASE IN ELECT. COSTS DUE TO MECH EQUIPMENT SUBSTITUTION TO BE CARRIED BY DIVISION 15.

COOLING / HEATING COIL SCHEDULE

REFERENCE	DESCRIPTION	SERVICE	OWNERSHIP	TOTAL AIR FLOW (L/S)	COIL AIR FLOW (L/S)	COOLING CAPACITY (KW)		HEATING CAPACITY (KW)	COOLING						HEATING						FLUID	MANUFACTURER	REMARKS:
						TOTAL	SENSIBLE		EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DP. (KPA)	EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DP. (KPA)			
CC-01	COOLING COIL	MAUA-01 COOLING	AFFORDABLE	3070	1605	68.1	37.1	-	31.1/23.3	12.0/11.9	2.6	5.6	11.1	20	-	-	-	-	-	-	WATER	MCQUAY DAIKIN	
HC-01	HEATING COIL	MAUA-01 HEATING	AFFORDABLE	3070	3070	-	-	175.3	-	-	-	-	-	-	-20.0	26.1	4.1	71.1	60.0	16	40% P.GLY.	MCQUAY DAIKIN	

NOTES:

ENERGY RECOVERY VENTILATOR SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	NORMAL SPEED OPERATION		HIGH SPEED OPERATION		E.S.P. (KPA)	ENT. AIR TEMP. (C)		MANUFACTURER	MODEL	ENERGY REQUIRED (AMPS)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER		TYPE	CONTOLS			OTHER REQUIREMENTS:			OTHERS	REMARKS:
					SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	SUPPLY AIR (L/S)	EXHAUST AIR (L/S)		WINTER	SUMMER					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT		
ERVA-A	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	AFFORDABLE	25	22.5	50	45	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	115	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVA-B	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	AFFORDABLE	30	27	50	45	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	115	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVA-C	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	AFFORDABLE	35	31.5	60	54	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	115	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVA-D	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	AFFORDABLE	40	36	60	54	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	115	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVA-E	ENERGY RECOVERY UNIT	AMENITY PH	AMENITY PH	AFFORDABLE	310	280	310	280	0.10	-20	32.2	LIFEBREATH	1200ERV	8	2 x 0.2	115	1	SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS AND CONTROLS

NOTES:

HEAT EXCHANGER SCHEDULE

REFERENCE	LOCATION	SERVICE	OWNERSHIP	PRIMARY						SECONDARY						FUNCTION	MANUFACTURER	TYPE	MODEL NUMBER	REMARKS:
				FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)	FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)					
HEA-01	MAU ROOM PH	MUA-04 HEATING	AFFORDABLE	WATER	4.4	-	82.2	71.1	1034	40% P.GLY	4.4	-	60.0	71.1	1034	HEATING	BELL & GOSSETT	PLATE AND FRAME	-	

NOTES:

VERTICAL FAN COIL SCHEDULE - 2 PIPE (SUITES)

REFERENCE	DESCRIPTION	OWNERSHIP	SUPPLY AIR (L/S)	E.S.P. (PA)	COOLING					HEATING				HEATING ELEMENT (KW)	MANUFACTURER	MODEL	MOTOR SIZE (KW)	POWER SUPPLY				STARTER		TYPE	CONTOLS			OTHER REQUIREMENTS:			OTHERS	REMARKS:
					TOTAL (KW)	SENS (KW)	E.A.T. (°C) DB	E.A.T. (°C) WB	WATER FLOW (L/S)	EWT (°C)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	LWT (°C)					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT		
FCA-01	SUITE 2 PIPES FANCOIL VERTICAL	AFFORDABLE	142	50	2.5	1.8	24.1	18.4	0.10	5.6	4.6	-	0.10	60.0	1	UNILUX	DLE350	0.10	120	1	SUITE PANEL 10A-1P	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER
FCA-02	SUITE 2 PIPES FANCOIL VERTICAL	AFFORDABLE	190	50	4.1	2.7	24.1	18.4	0.17	5.6	7.1	-	0.17	60.0	1	UNILUX	DLE450	0.16	120	1	SUITE PANEL 20A-1P	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER
FCA-03	SUITE 2 PIPES FANCOIL VERTICAL	AFFORDABLE	283	50	6.0	3.9	24.1	18.4	0.25	5.6	10.3	-	0.25	60.0	1	UNILUX	DLE600	0.16	120	1	SUITE PANEL 20A-1P	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER
FCA-04	SUITE 2 PIPES FANCOIL VERTICAL	AFFORDABLE	378	50	7.9	5.2	24.1	18.4	0.31	5.6	13.6	-	0.31	60.0	1.5	UNILUX	DLE800	0.16	120	1	SUITE PANEL 20A-1P	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER
FCA-05	SUITE 2 PIPES FANCOIL VERTICAL	AFFORDABLE	472	50	10.5	6.8	24.1	18.4	0.37	5.6	17.4	-	0.37	60.0	1.5	UNILUX	DLE1000	0.33	120	1	SUITE PANEL 30A-1P	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER

NOTES:

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Date: 04/08/15

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

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
ARTSCAPE - EQUIPMENT SCHEDULES #1

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

Scale: 1 : 1
Drawn by: S.J
Checked by: Checker
Project No: 8489D
Date: 04/08/15
Drawing No: ME-21

Plot Date: 12/08/2015 10:51:49 AM File Path: C:\Users\sjohnston\Dr Documents\8489D — Aquavista — MEP_Work_Files

PUMP SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	WATER FLOW (L/S)	HEAD (KPA)	RPM	MANUFACTURER	TYPE / SIZE	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:		INSTALLED BY:		TYPE	MANUAL	AUTO.	INTERLOCK BY:		W.P./DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
																DIV. 15	DIV. 16	DIV. 15	DIV.16				DIV. 15	DIV.16				
PA-01	CONDENSER WATER PUMP	MROOM P4	AFFORDABLE	20.7	214	1800	S.A.ARMSTRONG	4300 0306-015		11.2	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY,
PA-02	CONDENSER WATER PUMP	MROOM P4	AFFORDABLE	20.7	214	1800	S.A.ARMSTRONG	4300 0306-015		11.2	575	3																
PA-3	COOLING/HEATING WATER PUMP	MROOM P4	AFFORDABLE	16.5	242	1800	S.A.ARMSTRONG	4300 0310-010		7.5	575	3	-	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE - ONE DUTY / ONE STANDBY - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PA-4	COOLING/HEATING WATER PUMP	MROOM P4	AFFORDABLE	16.5	242	1800	S.A.ARMSTRONG	4300 0310-010		7.5	575	3								VFD								
PA-5	BOILER # 9 PUMP	MROOM P4	AFFORDABLE	8.8	74	1800	S.A.ARMSTRONG	4380 0306-002		1.5	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PA-6	BOILER # 10 PUMP	MROOM P4	AFFORDABLE	8.8	74	1800	S.A.ARMSTRONG	4380 0306-002		1.5	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PA-7	HIGH TEMP. SEC. PUMP	MROOM P4	AFFORDABLE	9.5	190	1800	S.A.ARMSTRONG	4380 0206-005		3.7	575	3	-	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PA-8	HIGH TEMP. SEC. PUMP	MROOM P4	AFFORDABLE	9.5	190	1800	S.A.ARMSTRONG	4380 0206-005		3.7	575	3								VFD								
PA-9	MUA-4 HEATING PUMP	MROOM P4	AFFORDABLE	4.1	105	1800	S.A.ARMSTRONG	-		-	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY,
PA-10	MUA-4 HEATING PUMP	MROOM P4	AFFORDABLE	4.1	105	1800	S.A.ARMSTRONG	-		-	575	3																
PA-11	BOILER # 11 PUMP	MROOM P4	AFFORDABLE	3.4	80	1800	S.A.ARMSTRONG	4380 0206-001		0.75	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PA-12	BOILER # 12 PUMP	MROOM P4	AFFORDABLE	3.4	80	1800	S.A.ARMSTRONG	4380 0206-001		0.75	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PA-13	DHW HEATING SEC. PUMP	MROOM P4	AFFORDABLE	6.6	170	1800	S.A.ARMSTRONG	4380 0206-003		2.2	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT. - ONE DUTY / ONE STANDBY
PA-14	DHW HEATING SEC. PUMP	MROOM P4	AFFORDABLE	6.6	170	1800	S.A.ARMSTRONG	4380 0206-003		2.2	575	3																
PA-15	DOMESTIC BOOSTER PUMP	MROOM P1	AFFORDABLE	-	-	3525	GRUNDFOS	-	-	-	575	3	-	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	PACKAGE C/W CONTROL PANEL, VFD, PRV'S AND EXPANSION TANK PRESSURES REQUIRED AFTER PRV - MANUFACTURER TO CONFIRM STREET PRESSURE AT SITE PRIOR TO MANUFACTURE OF PUMPS. VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PA-16	DOMESTIC BOOSTER PUMP	MROOM P1	AFFORDABLE	-	-	3525	GRUNDFOS	-	-	-	575	3								VFD								
PA-17	ELEVATOR SUMP PUMP (S)	FD LEVEL	AFFORDABLE	-	-	1800	BARNES	-	-	-	575	3	-	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	C/W SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.
PA-18	ELEVATOR SUMP PUMP (S)	FD LEVEL	AFFORDABLE	-	-	1800	BARNES	-	-	-	575	3																
PA-19	ELEVATOR SUMP PUMP (C)	FD LEVEL	AFFORDABLE	-	-	1800	BARNES	-	-	-	575	3	-	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	C/W SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.
PA-20	ELEVATOR SUMP PUMP (C)	FD LEVEL	AFFORDABLE	-	-	1800	BARNES	-	-	-	575	3																
PA-21	DHW RECIR. PUMP	MROOM P4	AFFORDABLE	-	-	1800	S.A.ARMSTRONG	-	-	-	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	YES	-	C/W BRONZE & ISOLATION DISCONNECT
PA-22	DHW RECIR. PUMP	MROOM P4	AFFORDABLE	-	-	1800	S.A.ARMSTRONG	-	-	-	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	YES	-	C/W BRONZE & ISOLATION DISCONNECT

NOTES:

1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTOR ID.
2. REFER TO SECTION 15400 AND 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. ALL MOTORS TO BE PROTECTED BY A CIRCUIT WITH AUTOMATIC SWITCH OVER ON PUMP FAILURE.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.

CHIMNEY EXHAUST FANS SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	AIR FLOW (L/S)	INLET PRESSURE (PA)	OPERATING WEIGHT (KG)	MANUFACTURER	MODEL	MOTOR SIZE (KW)	POWER SUPPLY					STARTER			CONTROLS				OTHER REQUIREMENTS			OTHERS	REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY:		DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
																					DIV. 15	DIV. 16					
VENTA-01	BOILER VENT	ROOF	BOILER # 1 & 2	AFFORDABLE	-	-	-	EXHAUSTO	RSV31/S	0.35	120	1	-	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FASNSEAL VENTING
VENTA-01	BOILER VENT	ROOF	BOILER # 3 & 4	AFFORDABLE	-	-	-	EXHAUSTO	RSV31/S	0.35	120	1	-	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FASNSEAL VENTING

NOTES:

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
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Date: 04/08/15

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No.	Revision	Date
2	BUILDING PERMIT SUBMISSION	2015-06-12
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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type
ARTSCAPE - EQUIPMENT SCHEDULES #2

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

Scale: 1 : 1
Drawn by: S.J
Checked by: Checker
Project No: 8489D
Date: 04/08/15
Drawing No: ME-22

Plot Date: 12/06/2015 10:51:55 AM File Path: C:\Users\jsalmoria\Documents\Archive Documents\8489D — Aquavista — MEP_Block_R3-R4.rvt

WATER CHILLER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	COOLER / EVAPORATOR				SAT. DISCHARGE TEMP. (°C)	CONDENSER				SAT. DISCHARGE TEMP. (°C)	INPUT POWER (kW)	IPVL	REFRIGERANT	NO. OF COMPRESSOR	STEPS OF UNLOADING	MANUFACTURER	OPERATING WEIGHT (KG)	MODEL No.	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY					STARTER			CONTROLS			OTHER REQUIREMENTS			OTHERS	REMARKS:
						FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)		FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)													VOLTS	PHASE	FED FROM	EM.	NORM	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
CHR-01	SCROLL CHILLER	CROOM P4	4 PIPE FCU SYSTEM	RETAIL	430	18.9	11.1	5.6	36	-	23.2	29.4	35.0	45	35.7	96.7	20.2	R-410A	-	-	MCQUAY- DAIKIN	2155	WGZ130D	210	250	575	3	-	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	DIV. 15	-	-	-	

NOTES:
1. REFER TO SECTION 15000 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15050 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.

COOLING TOWER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	SUMMER			OUTDOOR TEMP. WB. (°C)	WINTER			TUBES PRESS. DROP (KPA)	MODEL	OPERATING WEIGHT (KG)	MANUFACTURER	FAN HEATER (KW)	FAN MOTOR (KW)	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY				STARTER			CONTROLS			OTHER REQUIREMENTS			OTHERS	REMARKS:
						FLOW (L/S)	EWT (°C)	LWT (°C)		FLOW (L/S)	EWT (°C)	LWT (°C)									VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
CTR-01	INDUCED DRAFT	ROOF	CHILLER # 03	RETAIL	430	23.2	35.0	29.4	24.4	-	-	-	-	PT2-0412A-1H1	-	BALTIMORE AIRCOIL	6	2 x 3.7	-	-	575	3	-	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	-	VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS , BASIN HEATER, LOW SOUND FAN, PROVIDE ALL INTERIOR WIRING AND CONTROL BY DIV 15 CONTRACTOR.

NOTES:
1. REFER TO SECTION 15000 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.

BOILER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	INPUT (KW)	OUTPUT (KW)	GAS TRAIN INLET PRESSURE (KPA)	OPERATING PRESSURE MAX. (KPA)	OPERATING TEMP. MAX (°C)	MANUFACTURER	MODEL	AMPERE	POWER SUPPLY					STARTER			CONTROLS				OTHER REQUIREMENTS				OTHERS	REMARKS:
													VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
HBR-01	HIGHLOW HEATING BOILER	MROOM P4	4-PIPE RETAIL	RETAIL	732	674	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2500	11	120	1	-	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBR-02	HIGHLOW HEATING BOILER	MROOM P4	4-PIPE RETAIL	RETAIL	732	674	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2500	11	120	1	-	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. PROVIDE MODULATING CONTROLLER WITH INDOOR OUTDOOR RESET FOR BOILERS.
7. PROVIDE FLOW SWITCH, LOW WATER CUT OFF, PRESSURE REDUCING VALVES, AUX. CONTACTS FOR BAS.

MAKE UP AIR UNIT SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	COOLING			HEATING			P.W.L. db RE 10^12 WATTS OCTAVE BAND								E.S.P. (KPA)	MANUFACTURER	MODEL	EXHAUST FAN MOTOR (KW)	SUPPLY FAN MOTOR (KW)	F. LOAD AMPS	MAX. FUSE AMPS	POWER SUPPLY					STARTER		TYPE	CONTOLS			OTHER REQUIREMENTS:			OTHERS	REMARKS:
							TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	1	2	3	4	5	6	7	8								VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT		
MAUR-01	RETAIL MUA	LEVEL L1 MZ	RETAIL	RETAIL	4485	-	114.3	62.4	4.9	268	-	6.1									0.37	MCQUAY DAIKIN	CAH017GDAC	-	11.2	14	-	575	3	-	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT, FIRE STAT, DUCT STAT & HEAT WHEEL. DUCT MOUNTED FILTER BOX WITH MERV 8 PRE & MERV 13 CARBON FILTER AS PER A. Q. REPORT. VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS, COIL BYPASS, INLET DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FAS/INSEAL VENTING SENSORS, ALARM TO BMS WHEN PRESSURE DROP EXCEEDS 1.2 IN.W.G. AS RECOMMENDED BY THE FILTER MANUFACTURER.

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECH CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. ALTERNATE TO SECT. COSTS DUE TO MECH. EQUIPMENT SUBSTITUTION TO BE CARRIED BY DIVISION 15.

COOLING / HEATING COIL SCHEDULE

REFERENCE	DESCRIPTION	SERVICE	OWNERSHIP	TOTAL AIR FLOW (L/S)	COIL AIR FLOW (L/S)	COOLING CAPACITY (KW)		HEATING CAPACITY (KW)	COOLING						HEATING						FLUID	MANUFACTURER	REMARKS:	NOTES:
						TOTAL	SENSIBLE		EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DP. (KPA)	EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DP. (KPA)				
CC-01	COOLING COIL	MAUR-01 COOLING	RETAIL	4485	2737	114.3	62.4	-	31.1/23.3	11.9/11.7	4.9	5.6	11.1	58	-	-	-	-	-	-	WATER	MCQUAY DAIKIN		
HC-01	HEATING COIL	MAUR-01 HEATING	RETAIL	4485	4485	-	-	268	-	-	-	-	-	-	-20.0	29.2	6.1	71.1	60.0	40	40% P.GLY.	MCQUAY DAIKIN		

HEAT EXCHANGER SCHEDULE

REFERENCE	LOCATION	SERVICE	OWNERSHIP	PRIMARY						SECONDARY						FUNCTION	MANUFACTURER	TYPE	MODEL NUMBER	REMARKS:	NOTES:
				FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)	FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)						
HER-01	MAU ROOM P3	MUA-05 HEATING	RETAIL	WATER	6.4	-	82.2	71.1	1034	40% P.GLY.	6.4	-	60.0	71.1	1034	HEATING	BELL & GOSSETT	PLATE AND FRAME	-		

PUMP SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	WATER FLOW (L/S)	HEAD (KPA)	RPM	MANUFACTURER	TYPE / SIZE	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER				CONTROLS				OTHER REQUIREMENTS			REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY: DIV. 15	SUPPLIED BY: DIV. 16	INSTALLED BY: DIV. 15	INSTALLED BY: DIV.16	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV.16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
PR-01	CONDENSER WATER PUMP	MROOM P4	RETAIL	23.2	235	1800	ARMSTRONG	-		-	575	3																CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY,
PR-02	CONDENSER WATER PUMP	MROOM P4	RETAIL	23.2	235	1800	ARMSTRONG	-		-	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	
PR-3	CHILLED WATER PUMP	MROOM P4	RETAIL	18.5	250	1800	ARMSTRONG	-		-	575	3								VFD								CW ISOLATION DISCONNECT, INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY. - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PR-4	CHILLED WATER PUMP	MROOM P4	RETAIL	18.5	250	1800	ARMSTRONG	-		-	575	3	-	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	
PR-5	BOILER # 13 PUMP	MROOM P4	RETAIL	10.9	85	1800	ARMSTRONG	-		-	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT
PR-6	BOILER #14 PUMP	MROOM P4	RETAIL	10.9	85	1800	ARMSTRONG	-		-	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT
PR-7	HIGH TEMP. SEC. PUMP	MROOM P4	RETAIL	18.3	230	1800	ARMSTRONG	-		-	575	3								VFD								CW ISOLATION DISCONNECT, INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY. - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PR-8	HIGH TEMP. SEC. PUMP	MROOM P4	RETAIL	18.3	230	1800	ARMSTRONG	-		-	575	3	-	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	
PR-9	LOW TEMP. SEC. PUMP	MROOM P4	RETAIL	4.7	190	1800	ARMSTRONG	-		-	575	3								VFD								CW ISOLATION DISCONNECT, INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY. - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PR-10	LOW TEMP. SEC. PUMP	MROOM P4	RETAIL	4.7	190	1800	ARMSTRONG	-		-	575	3	-	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	
PR-11	MUA-5 HEATING PUMP	MROOM L1 MZ	RETAIL	6.2	130	1800	ARMSTRONG	-		-	575	3																CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY,
PR-12	MUA-5 HEATING PUMP	MROOM L1 MZ	RETAIL	6.2	130	1800	ARMSTRONG	-		-	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	
PR-13	MUA-KITCHEN HEATING PUMP	MROOM P4	RETAIL	-	-	1800	ARMSTRONG	-		-	575	3																CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY,
PR-14	MUA-KITCHEN HEATING PUMP	MROOM P4	RETAIL	-	-	1800	ARMSTRONG	-		-	575	3	-	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15400 AND 15705 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. ALL PUMPS WITH STANDBY UNIT TO BE WITH INTERLOCK WITH STANDBY UNIT.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.

CHIMNEY EXHAUST FANS SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	AIR FLOW (L/S)	INLET PRESSURE (PA)	OPERATING WEIGHT (KG)	MANUFACTURER	MODEL	MOTOR SIZE (kW)	POWER SUPPLY					STARTER			CONTROLS				OTHER REQUIREMENTS			OTHERS	REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
VENTR-01	BOILER VENT	ROOF	BOILER # 1 & 2	RETAIL	-	-	-	EXHAUSTO	RSV315	0.35	120	1	-	YES	-	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FAS/INSEAL VENTING

NOTES:

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

Date: 04/08/15

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

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type
RETAIL - EQUIPMENT SCHEDULES #1

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

Scale	1 : 1
Drawn by	S.J
Checked by	Checker
Project No.	8489D
Date	04/08/15
Drawing No.	ME-31

Plot Date: 12/06/2015 10:51:51 AM File Path: C:\Users\jsilvestre\AppData\Local\Temp\AcPublish_6480\~ Appuseto ~ - MEP_Block_R3.rvt