




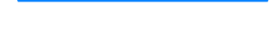

































PIPEWORK

-  SANITARY PLUMBING
-  STORMWATER DRAINAGE
-  SIPHONIC PIPE
-  VENT PIPE
-  CONDENSATE DRAIN
-  COLD WATER
-  HOT WATER FLOW
-  HOT WATER RETURN







SYSTEM ACCESSORIES

-  SERVICE DROP
-  SERVICE RISE
-  SERVICE CONTINUATION, AS NOTED
-  DIRECTION OF FLOW

SYMBOLS

-  FW FLOOR WASTE
-  OVER FLOW RELIEF GULLY
-  TD TUNDISH
-  ISOLATION VALVE
-  CHECK VALVE / NON RETURN VALVE
-  STRAINER
-  SEISMIC JOINT
-  AAV AUTOMATIC AIR VENT
-  PUMP
-  EXPANSION JOINT
-  PR LP PRESSURE REDUCING VALVE
-  REDUCE PRESSURE ZONE DEVICE
-  SIPHONIC BREAK FITTING
-  BACK FLOW PREVENTION DEVICE
-  3-WAY VALVE
-  PRESSURE RELIEF VALVE
-  2-WAY PRESSURE RELIEF VALVE
-  2-WAY MOTORISED VALVE
-  3-WAY MOTORISED VALVE
-  2-WAY SOLENOID VALVE
-  3-WAY SOLENOID VALVE
-  TD TUNDISH
-  (M) METER
-  COLD WATER CONNECTION
-  HOT WATER CONNECTION

SYSTEM REFERENCE

-  INDICATES PIPE RISERS
-  INDICATES SERVICE TYPE
-  INDICATES SERVICE SIZE
-  INDICATES SERVICE TYPE
-  INDICATES SERVICE SIZE
-  INDICATES PIPE DROPPERS

PIPEWORK ABBREVIATIONS

- AS ABOVE SLAB
- DN NOMINAL DIAMETER
- EX EXISTING
- FA FROM ABOVE
- FB FROM BELOW
- FFL FINISHED FLOOR LEVEL
- HL HIGH LEVEL
- JU JUMP UP
- LL LOW LEVEL
- PN NOMINAL PRESSURE
- SD SET DOWN
- TA TO ABOVE
- TB TO BELOW
- US UNDER SLAB

PIPEWORK MATERIAL ABBREVIATIONS

- CI CAST IRON CONCRETE LINED PIPE
- CU COPPER PIPE
- G GLASS DRAINAGE SYSTEM
- HDPE HIGH DENSITY PLOYTHENE PIPE
- MDPE MEDIUM DENSITY POLYTHENE PIPE
- PB FLEXIBLE POLYBUTENE PIPE
- PE POLYETHYLENE PIPE
- PPR POLYPROPYLENE PIPE
- PVC PLOYVINYL CHLORIDE PIPE
- STS STAINLESS STEEL PIPE
- V VYLCAETHENE PIPE (CHEMICAL RESISTANT)
- VCP VERIFIED CLAY PIPE

FIXTURE ABBREVIATIONS

- B BATH TUB
- DW DISH WASHER
- HT HOSE TAP
- RWO RAIN WATER OUTLET (GRAVITY)
- SO SIPHONIC OUTLET
- SK SINK
- TD TUNDISH
- WC WATER CLOSET
- WHB WASH HAND BASIN
- WM WASHING MACHINE
- SHR SHOWER

SANITARY SEWER PIPEWORK ABBREVIATIONS

- CO CLEAN OUT (BURIED)
- IC INSPECTION CHAMBER
- IL INVERT LEVEL
- LCHC LAMP HOLE CLEANING EYE
- ORG OVERFLOW RELIEF GULLY
- RFX REFLEX VALVE
- RP RODDING POINT (SURFACE)
- SD SANITARY DRAIN
- SS SOIL STACK
- SSMH SANITARY SEWER MANHOLE

PLUMBING WASTE PIPEWORK ABBREVIATIONS

- AAV AIR ADMITTANCE VALVE
- CO CLEAN OUT
- DV DRAIN VENT
- DW DRAIN WASTE
- FWG FLOOR WATER GULLY
- GT GULLY TRAP
- TV TERMINAL VENT

STORM WATER PIPEWORK ABBREVIATIONS

- DP DOWN PIPE
- IL INVERT LEVEL
- RWO RAIN WATER OUTLET
- SW STORM WATER DRAIN
- SO SIPHONIC ROOF OUTLET

WATER SUPPLY PIPEWORK ABBREVIATIONS

- AV AUTOMATIC AIR VENT
- BFP BACK FLOW PREVENTION DEVICE
- CV CHECK VALVE
- DCW DOMESTIC COLD WATER
- DCV DOUBLE CHECK VALVE
- DW DOMESTIC WATER
- HW HOT WATER
- HWR HOT WATER RETURN
- IV ISOLATION VALVE
- PRV PRESSURE RELIEF VALVE
- RPZ REDUCED PRESSURE ZONE VALVE
- STR STRAINER
- SV SLUICE VALVE
- TPRV TEMPERATURE PRESSURE RELIEF VALVE
- TV TEMPERING VALVE
- VB VACUUM BREAKER
- WM WATER METER

FOR CONSTRUCTION



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PROJECT
 AUCKLAND AIRPORT - PIER B



SCALE
 NOT TO SCALE

PROJECT MANAGEMENT INITIALS		
JP	NP	RW
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION		
0	23/12/2016	FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

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 91345
SHEET TITLE
 HYDRAULIC SERVICES LEGEND SHEET
SHEET NUMBER
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