

# JUSTINIAN HOUSE REDEVELOPMENT

## 18 - 22 Sinclair Street - Wollstonecraft NSW 2065

### STORMWATER SERVICES

### CONCEPT PLAN

#### LEGEND

##### SYMBOLS

PIPELINES	
	RISER
	SERVICE
	SIZE
	DROPPER
	STORMWATER DRAINAGE
	SUB-SOIL DRAINAGE
	SUB-SOIL RISING MAIN
	SEWER DRAINAGE
	SANITARY PLUMBING
	GREASE WASTE
	GREASE VENT
	RELIEF VENT
	STACK VENT
	VENT PIPE
	OVERFLOW
	PIPEWORK DRAIN
	POTABLE COLD WATER SERVICE
	POTABLE HOT WATER SERVICE
	POTABLE HOT FLOW
	POTABLE HOT RETURN
	COLD WATER RISING MAIN
	FIRE HYDRANT SERVICE
	FIRE HOSE REEL SERVICE
	FIRE SPRINKLER SERVICE
	NATURAL GAS SERVICE
	SYPHONIC ROOF WATER
	EXISTING SERVICE
	EXISTING SERVICE TO BE REMOVED
	IN GROUND PIPEWORK
	CONCRETE ENCASE PIPEWORK
	NOISE INSULATED PIPEWORK
	DROP TO OR RISE FROM
	TEE DROP
	TEE RISE
	ELECTRICAL WIRING IN CONDUIT
	VERTICAL RISER IN DRAINAGE
	FLOW DIRECTIONAL ARROWS ON ALL PIPING SERVICES
VALVES	
	STOP TAP
	GATE VALVE
	BALL VALVE
	SOLENOID VALVE
	SLUICE VALVE AND CAST IRON SURFACE BOX
	PATH TAP AND CAST IRON SURFACE BOX
	UNDERGROUND GAS BALL VALVE AND CAST IRON SURFACE BOX
	IRRIGATION VALVE IN FIBREGLASS SURFACE BOX
	GAS REGULATOR
	MISSION DUO CHECK VALVE
	SWING CHECK VALVE IN WATER PIPELINES
	SWING CHECK VALVE WITH 3mm HOLE IN FLAP
	REFLUX VALVE IN DRAINAGE PIPELINES
	STAD VALVE
	STAF VALVE
	REDUCED PRESSURE ZONE DEVICE

##### SYMBOLS

VALVES (CONT'D)	
	PRESSURE REDUCTION VALVE
	PRESSURE LIMITING VALVE
	BASIN, SINK OR BATH TAP SET
	SHOWER TAP SET & SHOWER ROSE
	RIGHT ANGLE STOP TAP
	HOSE TAP WITH STOP TAP ON PIPE OUTSIDE BLDG
	HOSE TAP
SYSTEM ACCESSORIES	
	PUMP
	FILTER
	CLEAROUT
	FLANGED JOINT
	PIPELINE TERMINATED WITH BLANK FLANGE
	PIPELINE PLUGGED OFF
	FIRE HOSE REEL
	FIRE HYDRANT
	DOUBLE FIRE HYDRANT STANDPIPE
	OVERFLOW GULLY
	METER (WATER or GAS)
	BOUNDARY TRAP
	FLOOR WASTE
	STAINLESS STEEL FLOOR WASTE
	PLANT DRAIN/FLOOR WASTE
	CAST IRON GARBAGE FLOOR WASTE WITH SS BASKET
	ROOF OUTLET (STORMWATER DRAINAGE)
	PLANTER DRAIN OUTLET
	BALCONY RAINWATER OUTLET
	SQUARE ROOF OUTLET (STORMWATER DRAINAGE)
	SEWER MANHOLE OR STORMWATER MANHOLE (CIRCULAR ACCESS CHAMBER)
	STORMWATER PIT WITH COVER
	STORMWATER PIT WITH GRATE
	PUMP ELECTRICAL CONTROL PANEL
	DRAINAGE CELL PLAN AREA

##### ABBREVIATIONS

SANITARY PLUMBING AND DRAINAGE	
BT	BOUNDARY TRAP
BV	BRANCH VENT PIPE
CO	CLEAROUT
BRO	BALCONY RAINWATER OUTLET
DP	DOWNPIPE
DST	DRAINAGE STACK
DTU	DRAINAGE TURN UP
GTL	GAS TIGHT LID
GO	GUTTER OUTLET
HWH	HOT WATER HEATER
HD	HEAVY DUTY COVER OR GRATE WITH FRAME CLASS D, (GAS TIGHT FOR SEWERAGE SYSTEMS) CONFORMING TO AS 3996-1992.
IO	INSPECTION OPENING
IPMF	INDUCT PIPE MICA FLAP.
LTG	LONGITUDINAL TRENCH GRATE
MD	MEDIUM DUTY COVER OR GRATE WITH FRAME CLASS C, (GAS TIGHT FOR SEWERAGE SYSTEMS) CONFORMING TO AS 3996-1992.
OG	OVERFLOW GULLY
OF	OVERFLOW
PST	PROVISIONAL STACK
RO	RAINWATER OUTLET
RV	RELIEF VENT
SRM	SEWER RISING MAIN
SSRM	SUB-SOIL RISING MAIN
STWRM	STORMWATER RISING MAIN
SS	SOIL STACK
STW	STORMWATER
SV	STACK VENT
SWP	STORMWATER PIT
VP	VENT PIPE
WP	WASTE PIPE
WST	WASTE STACK
SDO	SPOON DRAIN OUTLET
SMH	SEWER MANHOLE
SO	SYPHONIC OUTLET
SRW	SYPHONIC ROOF WATER
SYPH	SYPHONIC
VALVES	
BV	BALL VALVE (GAS)
CV	CHECK VALVE
DCV	DUAL CHECK VALVE
FH	FIRE HYDRANT VALVE
GBV	GAS BAYONET VALVE (WALL OR FLOOR MOUNTED)
GCV	GAS COOK TOP VALVE
GV	GATE VALVE
PLV	PRESSURE LIMITING VALVE
PRV	PRESSURE REDUCTION VALVE
RPZD	REDUCED PRESSURE ZONE DEVICE
RV	REFLUX VALVE
TEV	TEMPERING VALVE
TMV	THERMOSTATIC MIXING VALVE
T&PR	TEMPERATURE & PRESSURE RELIEF VALVE
AHT	RIGHT ANGLE STOP TAP
BHT	BREECHED HOSE TAP
HT	HOSE TAP
PHT	PLANTER HOSE TAP
RST	RECESSED STOP TAP
ST	STOP TAP

##### ABBREVIATIONS

WATER PIPING SYSTEMS	
PCW	COLD WATER (POTABLE)
D	DRAIN
HW	HOT WATER
HWF	HOT WATER FLOW
HWR	HOT WATER RETURN
R	RELIEF
PHWF	PRIMARY HOT WATER FLOW
PHWR	PRIMARY HOT WATER RETURN
RWR	RAINWATER RE-USE
THW	TEMPERED HOT WATER
FIXTURES & FITTINGS	
B	BASIN
BFW	BASKET FLOOR WASTE
Bth	BATH
BWU	BOILING WATER UNIT
DWM	DISHWASHING MACHINE
DB	DISABLED BASIN
DWC	DISABLED WATER CLOSET
DSHR	DISABLED SHOWER
FHR	FIRE HOSE REEL
FW	FLOOR WASTE
GCV	GAS COOK TOP VALVE
GFW	GARBAGE FLOOR WASTE
HWU	HOT WATER UNIT
KS	KITCHEN SINK
PL/FW	PLANT DRAIN/FLOOR WASTE
S	SINK
SBth	SPA BATH
Shr	SHOWER
T	TUB
TD	TUNDISH
TD-A/C	TUNDISH FOR AIR CONDITIONING UNIT
TTD	TRAPPED TUNDISH
TMV	THERMOSTATIC MIXING VALVE
VB	VANITY BASIN
WC	WATER CLOSET
WM	WASHING MACHINE
FIRE PROTECTION PIPING SYSTEMS	
FH	FIRE HYDRANT
FHR	FIRE HOSE REEL
FS	FIRE SPRINKLER
DE	DIESEL EXHAUST

##### ABBREVIATIONS

MATERIALS	
Br	BRASS
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CP	CHROMIUM PLATED
Cu	COPPER
DICL	DUCTILE IRON CEMENT LINED
FRC	FIBRE REINFORCED CEMENT
GMS	GALVANISED MILD STEEL
PE	POLYETHYLENE
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RHS	RECTANGULAR HOLLOW SECTION
SS	STAINLESS STEEL
LEVELS	
CL	CEILING LEVEL
FFL	FINISHED FLOOR LEVEL
GL	GROUND LEVEL
HL	HIGH LEVEL
IL	INVERT LEVEL
LL	LOW LEVEL
ML	MID LEVEL
RL	REDUCED LEVEL
US	UNDERSIDE
USFL	UNDERSIDE FLOOR
TK	TOP OF KERB
U/S	UNDERSIDE
MISCELLANEOUS	
A/B	ABOVE
A/C	AIR CONDITIONING
B/P	BELOW PLANTER
CL	CENTRE LINE
CIC	CAST IN COLUMN
CIS	CAST IN SLAB
DIA	DIAMETER
DRG	DRAWING
EX	EXISTING
FALL	PIPELINE FALL
GRD	GROUND
MPC	MULTI PART COVER
MPG	MULTI PART GRATE
NTS	NOT TO SCALE
SQ	SQUARE
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
PECP	PUMP ELECTRICAL CONTROL PANEL
VAR	PIPE SIZE VARIES (REFER TO DIAGRAMMATIC(S))
PROV	PROVISIONAL
HL	HIGH LEVEL
AHU	AIR HANDLING UNIT
W:	WIDE
H:	HIGH
D:	DEEP

##### DRAWING LIST

3136-HDA-01	TITLE SHEET, DRAWING LIST & LEGEND
3136-HDA-02	SITE PLAN STORMWATER CONCEPT PLAN
3136-HDA-03	LEVEL B2 (IN-GROUND) STORMWATER CONCEPT PLAN
3136-HDA-04	LEVEL B1 STORMWATER CONCEPT PLAN
3136-HDA-05	LEVEL 1 STORMWATER CONCEPT PLAN
3136-HDA-06	LEVEL 2 STORMWATER CONCEPT PLAN
3136-HDA-07	LEVEL 3 STORMWATER CONCEPT PLAN
3136-HDA-08	LEVEL 4 STORMWATER CONCEPT PLAN
3136-HDA-09	ROOF PLAN STORMWATER CONCEPT PLAN

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Fig: QAC/R61/0771

MAJOR PROJECT APPLICATION			
TITLE			
TITLE SHEET, LEGEND AND DRAWINGS LIST			
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