

HYDRAULIC SERVICES

FOR

LAHC SENIOR HOUSING DEVELOPMENT

1-5 BROWN STEET, NORTH PARRAMATTA NSW 2151



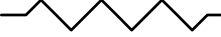
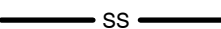
DRAWING SCHEDULE:

H-000 COVERSHEET
H-001 LEGEND, NOTES & SCHEDULE
H-100 SITE SERVICES
H-101 FIRST FLOOR WATER & SANITARY DRAINAGE

LINETYPES - EXISTING

	eCW	COLD WATER
	eHW	HOT WATER
	eWW	WARM WATER
	eFH	FIRE HYDRANT
	eSP	FIRE SPRINKLER
	eG	GAS
	eNP	NON POTABLE
	eRW	RAINWATER REUSE
	eS	SANITARY
	eVP	VENT PIPE OFFSET
	eTW	TRADE WASTE
	eSW	STORMWATER
	eDP	STORMWATER TO RWT
	eOF	STORMWATER OVERFLOW
	eSS	SUBSOIL DRAIN
		DISUSE PIPE

LINETYPES - NEW

	COLD WATER	
	HOT WATER	
	HOT WATER FLOW	
	HOT WATER RETURN	
	WARM WATER	
	TEMPERED WATER	
	HEAT TRACE	
	FIRE HYDRANT	
	FIRE SPRINKLER	
	GAS	
	NP	NON POTABLE
	RW	RAINWATER REUSE
	SANITARY	
	VENT PIPE OFFSET	
	TW	TRADE WASTE
	PD	PUMP DISCHARGE
	SW	STORMWATER
	DP	STORMWATER TO RWT
	BD	BALCONY DRAIN TO STORMWATER
	RC	RECYCLED/RECLAIMED WATER
	OF	STORMWATER OVERFLOW
	SS	SUBSOIL DRAIN

SYMBOLS - OTHER

	PIPEWORK CAP
	EXPANSION LOOP
	PIPEWORK PENETRATION TEE
	PIPEWORK PENETRATION RISER
	PIPEWORK PENETRATION DROPPER
	PIPEWORK DROP DOWN
	FIXTURE UNITS
	LOADING UNITS
	MEGA JOULES
	LITRES/SECOND
	FLOW ARROW
	PIPEWORK RISES
	PIPEWORK DROPS
	PIPEWORK RISES & DROPS
	SURFACE LEVEL
	PIPEWORK REDUCER

SYMBOLS - WATER

	ISOLATION VALVE
	BALANCING VALVE
	CHECK VALVE
	REFLUX VALVE IN SHAFT WITH INSPECTION OPENING
	WATER VALVE IN PATH BOX
	CIRCULATING PUMP
	DUAL CHECK VALVES
	REDUCES PRESSURE ZONE DEVICE
	THERMOSTATIC MIXING VALVE
	TEMPERING VALVE
	THERMOSTATIC MIXING VALVE IN WALL BOX
	TEMPERING VALVE IN WALL BOX
	MAIN WATER METER
	PRIVATE WATER METER
	MICRON FILTER
	HOT WATER STORAGE UNIT

SYMBOLS - GAS

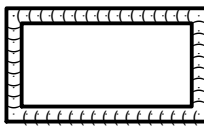
	GAS VALVE
	GAS VALVE IN PATH BOX
	GAS METER
	GAS REGULATOR
	GAS SOLENOID
	GAS MARKER PLATE
	GAS CONVECTION HEATER
	GAS HOT WATER UNIT

SYMBOLS - FIRE

	BOOSTER ASSEMBLY
	PUMP SET
	VALVE SET
	TEST POINT
	ALARM STROBE
	SINGLE PILLAR HYDRANT (INTERNAL)
	DOUBLE PILLAR HYDRANT (EXTERNAL)
	STREET HYDRANT
	FIRE HOSE REEL
	THRUST BLOCK
	FIRE INDICATOR PANEL

SYMBOLS - SANITARY

	AIR ADMITTANCE VALVE
	FLOOR WASTE
	BASKET FLOOR WASTE
	CHROME PLATED BRASS SCREWED CAP
	SEALED FLOOR WASTE
	OVERFLOW GULLY
	CLEAR OUT/INSPECTION OPENING
	SANITARY FIXTURE
	INSPECTION SHAFT
	INSPECTION SHAFT WITH BOUNDARY TRAP
	INDUCT PIPE MICA FLAP
	TUNDISH ON WALL
	TUNDISH INWALL
	SEWER ACCESS CHAMBER
	SEWER MAINTENANCE SHAFT
	PLASTER TRAP
	SWIVEL EXPANSION JOINT
	PIPEWORK CAST IN BEAM



BUNDED AREA

SYMBOLS - TRADEWASTE

	GREASE ARRESTOR
	GREASE ARRESTOR
	COOLING PIT/DILUTION PIT

SYMBOLS - STORMWATER

	GRATED DRAIN
	GRATED PIT
	SEALED PIT
	DOWNPIPE WITH SPREADER

ABBREVIATIONS

AT	ART TROUGH
ACU	AIR CONDITIONING UNIT.
AAV	AIR ADMITTANCE VALVE.
B	BATH.
BFW	BUCKET FLOOR WASTE.
BKS	BUCKET SINK.
BS	BAR SINK.
BID	BIDETTE.
BT	BOUNDARY TRAP.
BWU	BOILING WATER UNIT.
CD	CONDENSATE DRAIN.
CO	CLEAROUT.
CPC	CHROME PLATED BRASS SCREWED CLEAROUT.
CS	CLEANERS SINK.
DCV	DOUBLE CHECK VALVE (TESTABLE).
DE	DIESEL EXHAUST.
DF	DRINKING FOUNTAIN.
DN	DIAMETER NOMINAL.
DG	DISCONNECTOR GULLY.
DP	DOWNPIPE.
DPH	DOUBLE PILLAR HYDRANT.
DT	DRINKING TROUGH.
DUCV	DUAL CHECK VALVE.
DW	DISHWASHER.
e	EXISTING.
ED	ELEVATED DRAINAGE.
eSAC	EXISTING SEWER ACCESS CHAMBER.
eSWP	EXISTING STORMWATER PIT.
EW	EYE WASH.
FC	FUME CUPBOARD.
FH	FIRE HYDRANT.
FL	FLOOR LEVEL.
FS	FLUSHER SANITIZER.
FSL	FINISHED SURFACE LEVEL.
FU	FIXTURE UNITS.
FW	FLOOR WASTE.
GB	GAS BAYONET.
GCH	GAS CONVECTION HEATER.
GCT	GAS COOK TOP.
GD	GRATED DRAIN.
GW	GLASS WASHER.
Hb	HANDBASIN.
HT	HOSE TAP.
HWC	HUNTER WATER CORPORATION.
HWU	HOT WATER UNIT.
IL	INVERT LEVEL.
IM	ICE MACHINE.
IO	INSPECTION OPENING.
IS	INSPECTION SHAFT.
IPMF	INDUCT PIPE MICA FLAP.
KIP	KERB INLET PIT.
LPG	LIQUID PETROLEUM GAS.
LS	LABORATORY SINK.
NG	NATURAL GAS.
OG	OVERFLOW GULLY.
PA	PLASTER ARRESTOR.
PAT	PRACTICAL ACTIVITIES TROUGH.
PLD	PLANTER DRAIN.
RL	RELATIVE LEVEL.
RPZD	REDUCED PRESSURE ZONE DEVICE.
RWO	RAIN WATER OUTLET.
RV	REFLUX VALVE.
SAC	SEWER ACCESS CHAMBER.
Shr	SHOWER.
SH	SLOP HOPPER.
SFW	SEALED FLOOR WASTE.
SL	SURFACE LEVEL.
SMS	SEWER MAINTENANCE SHAFT.
Snk	KITCHEN SINK.
SPH	SINGLE PILLAR HYDRANT.
SPR	RAINWATER SPREADER.
SShr	SAFETY SHOWER.
SS	SOIL STACK.
ST	STERILIZER.
SVS	SPRINKLER VALVE SET.
T	TUBS.
TD	TUNDISH.
TMV	THERMOSTATIC MIXING VALVE.
TWV	TRADE WASTE VENT.
UR	URINAL.
Vb	VANITY BASIN.
VP	VENT PIPE.
Wc	WATER CLOSET.
WD	WINDOW DRENCHER.
WM	WASHING MACHINE.
WS	WASTE STACK.
WT	WASH TROUGH.

GENERAL NOTES

- IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN A 'DIAL BEFORE YOU DIG' TO ASCERTAIN THE FULL EXTENT OF EXISTING SERVICES SURROUNDING THE SUBJECT PROPERTY. PRIOR TO ANY EXCAVATION THE RELEVANT AUTHORITIES eg TELSTRA OPTUS, AGILITY etc. ARE TO BE NOTIFIED OF ALL WORKS.
- ALLOW TO PAY ALL FEES & CHARGES FOR ALL AUTHORITIES RELATING TO ALL WORKS DESIGNED & SPECIFIED.
- IT IS THE HYDRAULIC CONTRACTORS RESPONSIBILITY TO ENGAGE A SUITABLE QUALIFIED CONTRACTOR TO CARRY OUT A THOROUGH GROUND SEARCH FOR EXISTING SERVICES AROUND AND IN THE PROPOSED BUILDING FOOTPRINT. NOTIFY THE SUPERINTENDENT IMMEDIATELY IF ADDITIONAL SERVICES TO THAT DOCUMENTED ARE LOCATED. THIS IS TO BE CARRIED OUT PRIOR TO ANY WORKS BEING COMMENCED.
- ALL HOT, WARM & COLD WATER ISOLATION VALVES SHOWN ARE TO BE LOCATED IN THE CEILING VOID COMPLETE WITH ACCESS PANEL OTHERWISE 300mm DOWN FROM CEILING IN ROOM USING ENWARE VP356 ISOLATION VALVE WITH CHROME COVERPLATE.
- ALL EXPOSED PIPEWORK TO BE CHROME PLATED OR PAINTED AS PER SPECIFICATION.
- ALLOW TO PREPARE & SUPPLY DETAILED 'AS INSTALLED' DRAWINGS & MAINTENANCE MANUALS FOR ALL ASSOCIATED WORKS AS DETAILED IN THE SPECIFICATION.
- SUPPLY & INSTALL FIRE STOP COLLARS etc. TO COMPLY WITH AS4072.1 TO MAINTAIN THE FIRE RATING INTEGRITY OF THE BUILDING ELEMENT BEING PENETRATED. THE COLLARS MUST COMPLY WITH ALL CLAUSES / PARTS OF AS4072.
- ALL HYDRAULIC SERVICES PIPEWORK, EQUIPMENT & VALVES SHOULD BE LABELED TO ENABLE THEM TO BE CLEARLY IDENTIFIED. LOCATIONS OF LABELS TO BE APPROVED BY ARCHITECT.
- ALL HOT/WARM WATER PIPEWORK TO BE INSULATED WITH THERMOTEC INSULATION OR EQUIVALENT WITH R-VALUE = 1.0 IN ACCORDANCE WITH AS/NZS 3500.4. REFER TO SPECIFICATION FOR EXACT REQUIREMENTS.
- ALL DISRUPTIONS TO EXISTING SERVICES FOR NEW CONNECTIONS ARE TO BE COORDINATED ON SITE WITH THE PROJECT SUPERINTENDENT.
- ALL INWALL TUNDISH ARE TO BE MODTEC OR EQUIVALENT. REFER TO DETAILS.
- ALL EXTERNAL HOSE TAPS TO BE ENWARE KEY OPERATED HOSE TAPS FITTED WITH VACUUM BREAKERS.
- ALL LEVELS & LOCATIONS SHOWN ON DRAWINGS FOR EXISTING PITS, SERVICES, SEWER ACCESS CHAMBERS & KERB INLET PITS ARE TO BE CONFIRMED ON SITE PRIOR TO ANY WORKS BEING CARRIED OUT.
- ISOLATION VALVE AT WATER METER ASSEMBLY TO BE SECURED IN THE OPEN POSITION BY A PADLOCKED METAL STRAP AND AN ENGRAVED NON FERROUS METAL LABEL ATTACHED. LABEL TO BE ENGRAVED WITH 8mm UPPER CASE WORDING: "FIRE SERVICE VALVE - CLOSE ONLY TO SERVICE FIRE HOSE REELS".
- ALL SERVICES INSTALLED ADJACENT THE BUILDING ARE TO BE LOCATED OUTSIDE THE ZONE OF INFLUENCE AS PER AS3500.
- ALL HYDRANT PIPEWORK TO BE BLUE BRUTE CLASS 16 INGROUND OR GALVANIZED STEEL ABOVE GROUND TO COMPLY WITH AUSTRALIAN STANDARDS. ALL BLUE BRUTE PIPEWORK TO BE SUPPORTED BY THRUST BLOCKS.
- ALL TRADEWASTE BASKET TRAPS ARE TO BE FITTED WITH AN INSPECTION OPENING DOWNSTREAM OF TRAP.
- ALL BALCONY DRAINS ARE TO BE SPECIALTY PLUMBING SUPPLIES SPS 100mm ROUND R100S/C90 BALCONY DRAIN & PIPEWORK IS TO BE CAST IN SLAB. REFER TO DETAIL. ALSO REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR EXACT CONFIGURATION.
- ALL LOCATIONS OF WATER POINTS FOR INTERNAL FITOUT SHOWN ON THESE PLANS ARE FOR CLARITY ONLY. FINAL LOCATIONS ARE TO BE DETERMINED USING ARCHITECTURAL 1:50 INTERNAL LAYOUTS & ELEVATIONS.
- EXISTING WATER METERS SERVING THE EXISTING SITE TO BE REMOVED & RETURNED TO HUNTER WATER.
- EXCAVATE, LOCATE & CONNECT TO EXISTING SEWER JUNCTION SERVING THE SITE.
- ENSURE ALL FIXTURES, FITTINGS, BRACKETS, FASTENERS, ANGLES, MATERIAL SELECTION ETC, ARE SUITABLE TO THE COASTAL ENVIRONMENT.
- SANITARY DRAINAGE OVERFLOW GULLIES TO BE PROVIDED TO ALL GROUND FLOOR UNITS IN ACCORDANCE WITH AS3500.2 REQUIREMENTS. IF HEIGHTS IN ACCORDANCE WITH AS3500.2.4.6.6.6 CANNOT BE ACHIEVED REFLUX VALVES MUST BE INSTALLED.
- WHERE PIPEWORK IS LIKELY TO BE EXPOSED TO FIRE IN AN AREA WITHIN A BUILDING THAT IS NOT PROTECTED BY SPRINKLERS, PIPE-SUPPORTS SHALL BE INSTALLED WITH A MINIMUM FRL NOT LESS THAN 60/-/. THE PIPE-SUPPORTS ARE REQUIRED TO HAVE A TEMPERATURE RESISTANCE OF NOT LESS THAN 500°C WHEN TESTED IN ACCORDANCE WITH AS1530.4.

