

# 77 - 81 BERRY STREET NORTH SYDNEY

## RELOCATION OF SHARED FACILITIES

### HYDRAULIC SERVICES

#### DRAWING INDEX

|               |   |
|---------------|---|
| DW-EW-H-00001 | COVER SHEET, DRAWING INDEX AND LEGEND     |
| DW-EW-H-00002 | BRIGADE BOOSTER DETAIL SHEET              |
| DW-EW-H-00005 | FIRE HYDRANT AND FIRE HOSE REEL SCHEMATIC |
| DW-EW-H-10101 | BASEMENT LEVEL 1                          |
| DW-EW-H-10201 | BASEMENT LEVEL 2                          |
| DW-EW-H-10301 | RETAIL CARPARK AND BASEMENT LEVEL 3       |
| DW-EW-H-20101 | COMMERCIAL FOYER                          |

#### FIRE LEGEND

##### SPRINKLERS

|   |  |
|---|--|
| ● | SEMI-RECESSED SPRINKLER HEAD ON DROPPER  |
| ● | FULLY RECESSED SPRINKLER HEAD ON DROPPER |
| ● | CONCEALED SPACE SPRINKLER HEAD           |
| ○ | EXPOSED SPRINKLER HEAD                   |
| ○ | EXPOSED SPRINKLER HEAD                   |
| ⊗ | EXPOSED SPRINKLER HEAD WITH GUARD        |
| ○ | UNDERFLOOR SPRINKLER HEAD                |

##### DETECTION

|   |                |
|---|----------------|
| ☒ | SMOKE DETECTOR |
|---|----------------|

##### EWIS

|     |                                 |
|-----|---------------------------------|
| ⊙   | RECESSED CEILING SPEAKER        |
| WIP | WARDEN INTERCOMMUNICATION POINT |

##### INTERFACE

|      |                                  |
|------|----------------------------------|
| MECH | MECHANICAL SERVICES FIRE TRIP    |
| SECT | SECURITY SERVICES FIRE TRIP      |
| DFT  | DOOR FIRE TRIP                   |
| AUFT | AUDIO VISUAL EQUIPMENT FIRE TRIP |

##### EXTINGUISHERS

|   |   |
|---|---|
| ▲ | PORTABLE DRY POWDER FIRE EXTINGUISHER<br>ABE - 4.5 KG |
| ▲ | FIRE BLANKET - 0.9M X 0.9M                            |

#### HYDRAULIC LEGEND

##### NEW PIPE SERVICES

|              |                         |
|--------------|-------------------------|
| ---CHV---CHV | CHAMBER VENT PIPE       |
| ---CWD---    | COLD WATER PIPE         |
| ---CWRM---   | COLD WATER RISING MAIN  |
| ---CD---     | CONDENSATE DRAIN PIPE   |
| ---F---      | FILTERED WATER PIPE     |
| ---          | FIRE HYDRANT PIPE       |
| ---          | FIRE HOSE REEL PIPE     |
| ---          | GAS SERVICE PIPE        |
| ---GPO---    | GREASE PUMP OUT LINE    |
| ---GW---     | GREASE WASTE PIPE       |
| ---GWV---    | GREASE WASTE VENT PIPE  |
| ---          | HOT WATER PIPE          |
| ---          | HOT WATER RETURN PIPE   |
| ---          | IRRIGATION WATER PIPE   |
| ---IW---     | OVERFLOW PIPE           |
| ---O/F---    | OVERFLOW PIPE           |
| ---RW---     | RECYCLED WATER PIPE     |
| ---          | RISING MAIN             |
| ---          | SEWER/SANITARY DRAINAGE |
| ---SRM---    | SEWER RISING MAIN       |
| ---SCW---    | SOFT COLD WATER PIPE    |
| ---          | STORMWATER PIPE         |
| ---          | STORM WATER RISING MAIN |
| ---          | SUB SOIL DRAINAGE PIPE  |
| ---          | TEMPERED WATER PIPE     |
| ---TW---     | TRADE WASTE PIPE        |
| ---TWV---    | TRADE WASTE VENT PIPE   |
| ---          | VENT PIPE               |
| ---WW---     | WARM WATER PIPE         |
| ---WR---     | WATER RECLAMATION PIPE  |
| φ20          | 20mm DIAMETER PIPE      |
| φ25          | 25mm DIAMETER PIPE      |
| φ32          | 32mm DIAMETER PIPE      |
| φ65          | 65mm DIAMETER PIPE      |
| φ100         | 100mm DIAMETER PIPE     |
| φ150         | 150mm DIAMETER PIPE     |

##### EXISTING PIPE SERVICES

|                |                              |
|----------------|------------------------------|
| ---e---CHV---  | CHAMBER VENT PIPE            |
| ---e---CWD---  | COLD WATER PIPE              |
| ---e---CWRM--- | COLD WATER RISING MAIN       |
| ---e---CD---   | CONDENSATE DRAIN PIPE        |
| ---e---        | FIRE HYDRANT PIPE            |
| ---e---        | FIRE HOSE REEL PIPE          |
| ---e---        | GAS PIPE                     |
| ---e---GPO---  | GREASE PUMP OUT LINE         |
| ---e---GW---   | GREASE WASTE PIPE            |
| ---e---GWV---  | GREASE WASTE VENT PIPE       |
| ---e---        | HOT WATER PIPE               |
| ---e---        | HOT WATER RETURN PIPE        |
| ---e---IW---   | IRRIGATION WATER PIPE        |
| ---e---O/F---  | OVERFLOW PIPE                |
| ---e---        | RISING MAIN                  |
| ---e---        | SEWER/SANITARY DRAINAGE PIPE |
| ---e---SRM---  | SEWER RISING MAIN            |
| ---e---        | STORMWATER PIPE              |
| ---e---        | STORMWATER RISING MAIN       |
| ---e---/---    | SUB SOIL DRAINAGE PIPE       |
| ---e---TW---   | TRADE WASTE PIPE             |
| ---e---TWV---  | TRADE WASTE VENT PIPE        |
| ---e---        | VENT PIPE                    |
| ---e---WW---   | WARM WATER PIPE              |
| ---e---WR---   | WATER RECLAMATION PIPE       |

##### SYMBOLS

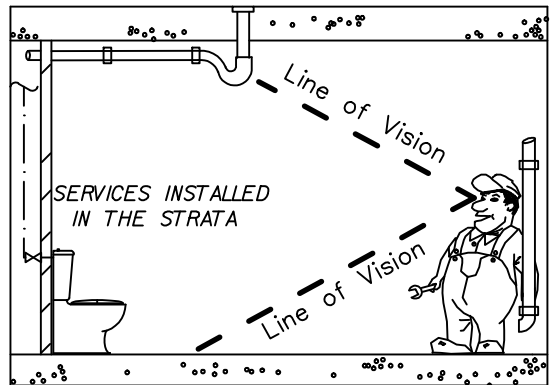
|          |                              |
|----------|------------------------------|
| ≡        | AIR ADMITTANCE VENT          |
| →        | FLOW DIRECTION               |
| BFW      | BUNDED FLOOR WASTE           |
| BO       | BALCONY OUTLET               |
| ))       | BEAM PENETRATION             |
| ?        | BREAK                        |
| BT       | BOUNDARY TRAP                |
| BTFW     | BUCKET TRAP FLOOR WASTE      |
| ⊗        | BALANCING VALVE              |
| J        | CAPPED OFF SERVICE           |
| H        | CONNECTION TO EX. SERVICE    |
| CP       | CENTRIFUGAL PUMP             |
| DCV      | DOUBLE CHECK VALVE           |
| ○        | DROPPER                      |
| ○        | "TEE" DROPPER                |
| EW       | EXPANSION JOINT              |
| FD       | FLOOR DRAIN                  |
| FH       | FIRE HYDRANT                 |
| FHR      | DUAL PILLAR FIRE HYDRANT     |
| FU       | FIXTURE UNITS LABEL          |
| FW       | FLOAT VALVE                  |
| FW       | FLOOR WASTE                  |
| GD       | GRATED DRAIN                 |
| GF       | GAS FILTER                   |
| GM       | GAS METER                    |
| GR       | GAS REGULATOR                |
| GV       | GAS VALVE                    |
| GBV      | HYDRANT BOOSTER VALVE        |
| FHR      | FIRE HOSE REEL               |
| HT       | HOSE TAP                     |
| NRV      | NON-RETURN VALVE             |
| OC       | ONE WAY CONNECTION           |
| OR       | OVERFLOW RELIEF GULLY        |
|          | PIPE CONTINUES               |
| PD       | PLANTER DRAIN                |
| PE       | PIPE END                     |
| PLP      | IN-LINE PUMP                 |
| PR       | PIPE REDUCER                 |
| PRV      | PRESSURE RATIO VALVE         |
| H-01     | REFERENCE TO OTHER DRAWINGS  |
| 00       | REVISION                     |
| RPZ      | REDUCED PRESSURE ZONE DEVICE |
| ○        | RISER                        |
| RD       | RISE & DROP                  |
| RWH      | RAINWATER HEAD               |
| RV       | RUNNING VERTICAL             |
| RWO      | RAINWATER OUTLET             |
| RV       | REFLUX VALVE                 |
| SDO      | SPOON DRAIN OUTLET           |
| SIP/SWIP | SEWER INSPECTION PIT         |
| SMH/SWMH | SEWER MANHOLE                |
| SV       | SOLENOID VALVE               |

|     |                                   |
|-----|-----------------------------------|
| ○   | SEWER PIT                         |
| SP  | SPREADER                          |
| SRU | SERVICE RISER UNIDIRECTIONAL      |
| SRD | SERVICES RISER- DOWNWARD FLOW     |
| SRN | SERVICE RISER- NO FLOW DIRECTION  |
| SUR | SERVICE RISER- UPWARD FLOW        |
| ST  | STRAINER                          |
| SV  | STOP/GATE/ISOLATION VALVE         |
| SVB | STOP VALVE IN PATH BOX            |
| SVL | SLUICE VALVE                      |
| SWP | GRATED STORM WATER PIT            |
| SWP | GRATED KIP                        |
| SWP | COVERED STORM WATER PIT           |
| SWP | STORMWATER SUMP                   |
| TR  | TEMPERATURE/PRESSURE RELIEF VALVE |
| TU  | TUNDISH                           |
| TV  | THRUST BLOCK                      |
| TMV | THERMOSTATIC MIXING VALVE         |
| TV  | TEMPERING VALVE                   |
| TV  | THREE WAY CONNECTION              |
| TV  | TWO WAY CONNECTION                |
| TV  | UNION                             |
| TV  | WATER FILTER                      |
| TV  | WATER METER                       |
| TV  | WATER POINTS                      |

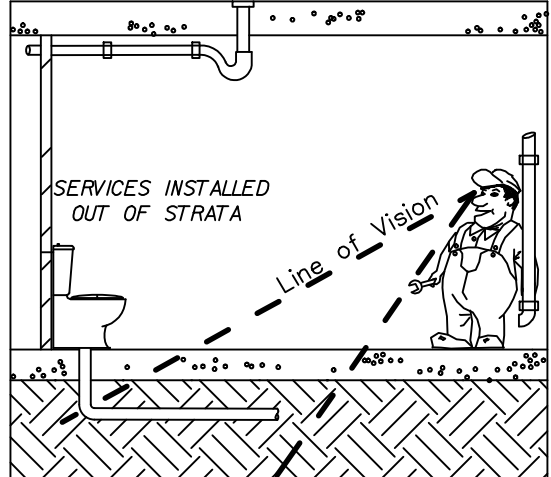
##### ABBREVIATIONS

|      |                              |      |                                   |
|------|------------------------------|------|-----------------------------------|
| A/C  | AIR CONDITIONING             | MM   | MILLIMETRES                       |
| AHD  | AUSTRALIAN HEIGHT DATUM      | MPa  | MEGAPASCALS                       |
| B    | BASIN                        | MS   | MILD STEEL                        |
| BT   | BUCKET TRAP FLOOR WASTE      | NPCH | NON-POTABLE COLD WATER            |
| BID  | BIDET                        | NPHW | NON-POTABLE HOT WATER             |
| BT   | BOUNDARY TRAP                | NRV  | NON-RETURN VALVE                  |
| BV   | BALANCING VALVE              | NTS  | NOT TO SCALE                      |
| BWU  | BOILING WATER UNIT           | OF   | OVERFLOW                          |
| CD   | CONDENSATE DRAIN             | OD   | OUTSIDE DIAMETER                  |
| CH   | CORE HOLE                    | ORG  | OVERFLOW RELIEF GULLY             |
| CHV  | CHAMBER VENT                 | Pa   | PASCALS                           |
| CI   | CAST IRON                    | PD   | PLANTER DRAIN                     |
| CICL | CAST IRON CEMENT LINED       | PG   | PRESSURE GAUGE                    |
| CO   | CLEAR OUT                    | PRV  | PRESSURE RELIEF VALVE             |
| CP   | CHROME PLATED                | PS   | PAN STERILIZER                    |
| CS   | CLEANERS SINK                | PSK  | POT SINK                          |
| CST  | CONDENSATE STACK             | PVC  | POLYVINYL CHLORIDE                |
| CU   | COPPER                       | PW   | PAN WASHER                        |
| CV   | CONTROL VALVE                | RCP  | REINFORCED CONCRETE PIPE          |
| CVP  | CONDENSATE VENT PIPE         | RH   | RAINWATER HEAD                    |
| CW   | COLD WATER                   | RL   | REDUCED LEVEL                     |
| CWRM | COLD WATER RISING MAIN       | RV   | RELIEF VENT                       |
| DCW  | DOMESTIC COLD WATER          | RWO  | RAINWATER OUTLET                  |
| DF   | DRINKING FOUNTAIN            | S    | SHOWER                            |
| DICL | DUCTILE IRON CEMENT LINE     | S/S  | STAINLESS STEEL                   |
| DM   | DRINKS MACHINE               | SD   | SEWER DRAIN                       |
| DP   | DOWN PIPE                    | SH   | SLOP HOPPER                       |
| DSK  | DOUBLE BOWL SINK             | SIP  | SEWER INSPECTION PIT              |
| DW   | DISH WASHER                  | SK   | SINK                              |
| DWG  | DRAWING                      | SL   | SURFACE LEVEL                     |
| EJ   | EXPANSION JOINT              | SMH  | SEWER MANHOLE                     |
| EX   | EXISTING                     | SPR  | SPRINKLER                         |
| FW   | FLOOR WASTE                  | SRM  | SEWER RISING MAIN                 |
| FC   | FUME CUPBOARD                | SSH  | SAFETY SHOWER                     |
| FFL  | FINISHED FLOOR LEVEL         | SSL  | STRUCTURAL SLAB LEVEL             |
| FD   | FLOOR DRAIN                  | SSRM | SUB-SOIL RISING MAIN              |
| FH   | FIRE HYDRANT                 | SS   | SOIL STACK                        |
| FHR  | FIRE HOSE REEL               | STD  | SPRINKLER TEST DRAIN              |
| FL   | FLOOR LEVEL                  | SV   | STOP VALVE                        |
| FU   | FIXTURE UNIT                 | SW   | STORMWATER                        |
| G    | GAS                          | SWIP | STORMWATER INSPECTION PIT         |
| GA   | GREASE ARRESTOR              | SWMH | STORMWATER MANHOLE                |
| GALV | GALVANISED                   | SWRM | STORMWATER RISING MAIN            |
| GCHV | GREASE CHAMBER VENT PIPE     | SWS  | STORMWATER SUMP                   |
| GL   | GROUND LEVEL                 | T    | TUB                               |
| GMS  | GALVANISED MILD STEEL        | TB   | THRUST BLOCK                      |
| GPO  | GREASE PUMP OUT              | TD   | TUNDISH                           |
| GRV  | GREASE RELIEF VENT           | TG   | TRENCH GRATE                      |
| GS   | GREASE STACK                 | TMV  | THERMOSTATIC MIXING VALVE         |
| GWV  | GREASE WASTE VENT            | TPRV | TEMPERATURE/PRESSURE RELIEF VALVE |
| GW   | GLASS WASHER                 | TV   | TEMPERING VALVE                   |
| GWST | GREASE WASTE                 | TWL  | TOP WATER LEVEL                   |
| HD   | HEAVY DUTY                   | TW   | TRADE WASTE                       |
| HL   | HIGH LEVEL                   | TWV  | TRADE WASTE VENT                  |
| HT   | HOSE TAP                     | U    | URNAL                             |
| HTVB | HOSE TAP WITH VACUUM BREAKER | US   | UNDERSIDE                         |
| HW   | HOT WATER                    | UNO  | UNLESS NOTED OTHERWISE            |
| HWR  | HOT WATER RETURN             | UPVC | UNPLASTICISED POLYVINYL CHLORIDE  |
| HWU  | HOT WATER UNIT               | UV   | ULTRA VIOLET                      |
| IL   | INVERT LEVEL                 | UW   | UTENSIL WASHER                    |
| IO   | INSPECTION OPENING           | VCP  | VITRIFIED CLAY PIPE               |
| IP   | INSPECTION PIPE              | VP   | VENT PIPE                         |
| IPMF | INDUCT PIPE MICA FLAP        | WC   | WATER CLOSET                      |
| KPa  | KILOPASCALS                  | WL   | WATER LEVEL                       |
| KW   | KILOWATTS                    | WM   | WASHING MACHINE                   |
| L    | LITRES                       | WP   | WASTE PIPE                        |
| LD   | LIGHT DUTY                   | WS   | WASTE STACK                       |
| LT   | LAUNDRY TUB                  | WT   | WASH TROUGH                       |
| M    | METRES                       | WW   | WARM WATER                        |
| MIN  | MINIMUM                      |      |                                   |

#### DRAWN IN STRATA



#### DRAWN OUT OF STRATA



#### CLIENT

1 DENISON STREET  
HOLDINGS PTY LTD

#### REVISION DETAILS

| REV | DATE     | REVISION DETAILS                | APP |
|-----|----------|---------------------------------|-----|
| 2   | 10.02.14 | REVISED TENDER ISSUE            | NK  |
| 1   | 24.01.14 | ISSUED FOR CONSTRUCTION         | NK  |
| D   | 11.12.13 | PROJECT NAME AMENDED            | NK  |
| C   | 10.12.13 | REVISED ISSUE FOR TENDER        | NK  |
| B   | 03.12.13 | REVISED TENDER ISSUE FOR REVIEW | NK  |
| A   | 22.11.13 | ISSUED FOR TENDER               | NK  |

#### APP

| DRAWN      | DESIGNED |
|------------|----------|
| JD         | MLM      |
| CHECKED    |          |
| T.GIERSZ   |          |
| APPROVED   |          |
| NENO KEVIC |          |
| DATE       |          |
| 10.12.13   |          |
| PGT        |          |

#### PROJECT

77-81 BERRY STREET, NORTH SYDNEY  
RELOCATION OF SHARED FACILITIES

#### TITLE

HYDRAULIC SERVICES  
COVER SHEET, DRAWING INDEX, AND LEGEND

#### TENDER

NOT FOR CONSTRUCTION

PROJECT No.

234976

SCALE

NTS

DRAWING No.

DW-EW-H-00001

SIZE

B1

REV

2