

# COMMUNITY INFRASTRUCTURE DEPOT

## 252 COAL ROAD, MUSWELLBROOK NSW 2333

### HYDRAULIC SERVICES

#### PIPE SERVICES

|  |                                  |
|--|----------------------------------|
|  | COLD WATER                       |
|  | COLD WATER @ HIGH LEVEL          |
|  | COLD WATER RISING MAIN           |
|  | BORE WATER                       |
|  | GREY WATER                       |
|  | LABORATORY COLD WATER            |
|  | RAIN WATER SUPPLY                |
|  | REVERSE OSMOSIS WATER            |
|  | FIRE HYDRANT                     |
|  | HOSE REEL                        |
|  | SPRINKLER                        |
|  | EXISTING COLD WATER              |
|  | EXISTING FIRE HYDRANT            |
|  | EXISTING HOSE REEL               |
|  | EXISTING SPRINKLER               |
|  | HOT WATER                        |
|  | LABORATORY HOT WATER             |
|  | HOT WATER RETURN                 |
|  | LABORATORY HOT WATER RETURN      |
|  | WARM WATER                       |
|  | WARM WATER RETURN                |
|  | EXISTING HOT WATER               |
|  | EXISTING HOT WATER RETURN        |
|  | EXISTING WARM WATER              |
|  | GAS                              |
|  | GAS FLUE                         |
|  | EXISTING GAS                     |
|  | EXISTING GAS FLUE                |
|  | SANITARY PLUMBING                |
|  | SANITARY DRAINAGE                |
|  | SEWER RISING MAIN                |
|  | TRADE WASTE                      |
|  | GREASE DRAINAGE                  |
|  | GREASE ARRESTOR PUMPOUT LINE     |
|  | LABORATORY DRAINAGE              |
|  | GREY WATER DRAINAGE              |
|  | EXISTING SANITARY PLUMBING       |
|  | EXISTING TRADE WASTE             |
|  | EXISTING GREASE DRAINAGE         |
|  | EXISTING GREASE ARRESTOR PUMPOUT |
|  | STORMWATER                       |
|  | STORMWATER RISING MAIN           |
|  | SIPHONIC DRAINAGE                |
|  | SIPHONIC OVERFLOW DRAINAGE       |
|  | RAINWATER DRAINAGE               |
|  | SUBSOIL                          |
|  | CONDENSATE DRAIN                 |
|  | OVERFLOW PIPE                    |
|  | EXISTING STORMWATER              |
|  | EXISTING RAINWATER               |
|  | EXISTING SUBSOIL                 |
|  | EXISTING OVERFLOW PIPE           |
|  | VENT PIPE                        |
|  | DIESEL EXHAUST VENT PIPE         |
|  | EXISTING VENT PIPE               |
|  | AUTHORITY SEWER MAIN             |
|  | AUTHORITY STORMWATER MAIN        |
|  | AUTHORITY BORE WATER MAIN        |
|  | AUTHORITY WATER MAIN             |
|  | AUTHORITY RECYCLED WATER MAIN    |
|  | AUTHORITY GAS SERVICE            |
|  | AUTHORITY TELEPHONE SERVICE      |
|  | AUTHORITY ELECTRICAL SERVICE     |
|  | TEMPORARY SEDIMENT FENCE         |
|  | CONCRETE ENCASE                  |

#### SYMBOLS

|  |                                        |
|--|----------------------------------------|
|  | FLOW TO ABOVE                          |
|  | SERVICE TYPE                           |
|  | SERVICE SIZE                           |
|  | FLOW TO BELOW                          |
|  | SERVICE TYPE                           |
|  | SERVICE SIZE                           |
|  | SERVICE TYPE (BY OTHERS)               |
|  | SERVICE SIZE (BY OTHERS)               |
|  | REVISION CLOUD                         |
|  | AMENDMENT TRIANGLE                     |
|  | LEADER: HORIZONTAL                     |
|  | LEADER: ARC                            |
|  | LINE BREAK                             |
|  | PIPE BREAK                             |
|  | SECTION NUMBER                         |
|  | DRAWING NUMBER FOR LOCATION OF SECTION |
|  | DETAIL NUMBER                          |
|  | DRAWING NUMBER FOR LOCATION OF DETAIL  |
|  | PENETRATING PIPE                       |
|  | PIPE NOT PENETRATING SLAB              |
|  | OFFSET PENETRATING SLAB                |
|  | OFFSET NOT PENETRATING SLAB            |
|  | TEE DROPPER PENETRATING SLAB           |
|  | TEE DROPPER NOT PENETRATING SLAB       |
|  | OFFSET IN WALL                         |
|  | PIPE BREAK                             |
|  | PIPEWORK TERMINATION                   |
|  | CAPPED OFF SERVICE                     |
|  | UNION                                  |
|  | STRAINER                               |
|  | CONNECT TO EXISTING PIPE               |
|  | SERVICE CONNECTION                     |
|  | REDUCER                                |
|  | FLOW DIRECTION                         |
|  | FLOW DIRECTION                         |
|  | FLOW DIRECTION                         |
|  | FLOW DIRECTION                         |
|  | PIPEWORK CONTINUES TO FIXTURES         |
|  | CONTINUATION                           |
|  | PIPE THROUGH BEAM                      |
|  | CONCRETE ENCASED                       |
|  | RECTANGULAR HOLLOW SECTION             |
|  | STORMWATER PIT(BLIND)                  |
|  | STORMWATER GRATED PIT                  |
|  | KERB INLET PIT                         |
|  | SEWER ACCESS CHAMBER                   |
|  | GRATED TRENCH DRAIN                    |
|  | LINEAR TRENCH DRAIN                    |
|  | LINEAR TRENCH DRAIN WITH FLOORWASTE    |

|  |                                         |
|--|-----------------------------------------|
|  | STOP VALVE                              |
|  | VALVE IN PATHBOX                        |
|  | GAS PATH VALVE                          |
|  | BALANCING VALVE                         |
|  | REFLUX VALVE                            |
|  | NON RETURN (CHECK VALVE)                |
|  | DOUBLE CHECK VALVE                      |
|  | VENTED DOUBLE CHECK VALVE               |
|  | GATE VALVE                              |
|  | DIAPHRAGM VALVE                         |
|  | SOLENOID VALVE                          |
|  | NEEDLE VALVE                            |
|  | FLAP VALVE                              |
|  | AIR ADMITTANCE VALVE                    |
|  | THREE PORT VALVE                        |
|  | TEMPERING VALVE                         |
|  | THERMOSTATIC MIXING VALVE               |
|  | GAS PRESSURE REGULATOR                  |
|  | PRESSURE REGULATOR                      |
|  | GAS BALL VALVE                          |
|  | GAS SAFETY SHUT OFF VALVE               |
|  | GAS SAFETY SHUT OFF BUTTON              |
|  | PRESSURE RELIEF VALVE                   |
|  | REDUCED PRESSURE ZONE DEVICE            |
|  | REDUCED PRESSURE ZONE DEVICES IN SS BOX |
|  | PRESSURE LIMITING VALVE                 |
|  | RATIO REDUCTION VALVE                   |
|  | PRESSURE REDUCTION VALVE                |
|  | TAP SET                                 |
|  | HOSE TAP                                |
|  | HOT WATER CIRCULATING PUMP              |
|  | GAS METER                               |
|  | WATER METER                             |
|  | WATER FILTER                            |
|  | BOILING WATER UNIT                      |
|  | CONTROL PANEL                           |
|  | FIRE HYDRANT                            |
|  | DOUBLE FIRE HYDRANT                     |
|  | STREET HYDRANT                          |
|  | FIRE HOSE REEL                          |
|  | DRENCHER (WALL WETTING SPK)             |
|  | THRUST BLOCK                            |
|  | FIRE HYDRANT BOOSTER VALVE              |

|  |                                  |
|--|----------------------------------|
|  | TUNDISH NOT PENETRATING SLAB     |
|  | TUNDISH PENETRATING SLAB         |
|  | FIRST FLUSH DEVICE               |
|  | FLOOR WASTE                      |
|  | SEALED FLOORWASTE                |
|  | RAINWATER OUTLET                 |
|  | STORMWATER OUTLET                |
|  | SQUARE RAIN WATER OUTLET         |
|  | BASKET TRAP FLOOR WASTE          |
|  | PLANTER DRAIN                    |
|  | BALCONY DRAIN                    |
|  | BOUNDARY TRAP                    |
|  | INDUCT PIPE MICA FLAP            |
|  | OVERFLOW GULLY                   |
|  | GULLY                            |
|  | POSITIVE AIR PRESSURE ATTENUATOR |
|  | TRAP PRIMING DEVICE              |
|  | CLEAR OUT                        |
|  | INSPECTION OPENING               |
|  | RAINWATER HEAD                   |
|  | SPREADER                         |
|  | OVERFLOW                         |
|  | OVERLAND FLOW PATH               |
|  | OVERLAND FLOW PATH               |
|  | NODE POINT                       |
|  | NODE POINT                       |
|  | NODE POINT                       |
|  | CIRCULATING PUMP                 |
|  | SINGLE GAS TURRET                |
|  | 2 WAY GAS TURRET                 |
|  | 3 WAY GAS TURRET                 |
|  | 4 WAY GAS TURRET                 |
|  | GAS BAYONET POINT                |
|  | GAS MEIER                        |

#### ABBREVIATIONS

|         |                                  |        |                                |       |                                  |        |                                     |
|---------|----------------------------------|--------|--------------------------------|-------|----------------------------------|--------|-------------------------------------|
| AAV     | AIR ADMITTANCE VALVE             | FB     | FOOT BATH                      | L     | LITRES                           | S      | SEWER                               |
| AAC     | AUTOMATIC AIR COCK               | FC     | FUME CUPBOARD                  | LA    | LEVER ACTIVATED                  | SA     | SILT ARRESTOR                       |
| AC      | AIR CONDITIONING                 | FD     | FLOOR DRAIN                    | LCW   | LABORATORY COLD WATER            | SAC    | SEWER ACCESS CHAMBER                |
| AHD     | AUSTRALIAN HEIGHT DATUM          | FFD    | FIRST FLUSH DEVICE             | LH    | LAMP HOLE                        | SANZ   | SANITIZER                           |
| AP      | ACCESS PANEL                     | FFL    | FINISHED FLOOR LEVEL           | LHW   | LABORATORY HOT WATER             | SCD    | SCUPPER DRAIN                       |
| ARV     | AIR RELEASE VALVE                | FGL    | FINISHED GROUND LEVEL          | LHWR  | LABORATORY HOT WATER RETURN      | SCP    | SATIN CHROME PLATED                 |
| ASSD    | ASSUMED DATUM                    | FH     | FIRE HYDRANT                   | LL    | LOW LEVEL                        | SD     | SEWER DRAINAGE                      |
| AV      | ALARM VALVE                      | FHBP   | FIRE HYDRANT BOOSTER PUMP      | LLA   | LOW LEVEL ALARM                  | SDP    | SIPHONIC DOWNPIPE                   |
| B       | BASIN / VANITY BASIN / HANDBASIN | FHBV   | FIRE HYDRANT BOOSTER VALVE     | LPG   | LIQUIFIED PETROLEUM GAS          | SDU    | SANITARY DISPOSAL UNIT              |
| BD      | BALCONY DRAIN                    | FH/FHR | FIRE HYDRANT/FIRE HOSE REEL    | LS    | LABORATORY SINK                  | SDV    | SOLENOID VALVE                      |
| BID     | BIDET                            | FHR    | FIRE HOSE REEL                 | L/s   | LITRES PER SECOND                | SE     | SEWERAGE EJECTOR                    |
| BL      | BUILDING LINE                    | FL     | FLOOR LEVEL                    |       |                                  | SFL    | STRUCTURAL FLOOR LEVEL              |
| BM      | BAIN MARIE                       | FLT    | FLUSHERETTE TANK               | MJ/h  | MEGA JOULES PER HOUR             | SFW    | SEALED FLOOR WASTE                  |
| BS      | BRASS                            | FLV    | FLUSH VALVE                    | MPa   | MEGA PASCAL                      | SH     | SLOP HOPPER                         |
| BSK     | BAR SINK                         | FP     | FLUSHERETTE PIPE               | MDL   | METER DATA LOGGER                | SHR    | SHOWER                              |
| BT      | BOUNDARY TRAP                    | FRC    | FIBRE REINFORCED CEMENT        | m     | METRES                           | SK     | SINK                                |
| BTFW    | BASKET TRAP FLOOR WASTE          | FU     | FIXTURE UNIT                   | m/h   | METRES HEAD                      | SIP    | SEWER INSPECTION PIT                |
| BTH     | BATH                             | FV     | FLAP VALVE                     | m/s   | METRES PER SECOND                | SL     | SURFACE LEVEL                       |
| BV      | BALANCING VALVE                  | FW     | FLOOR WASTE                    | mm    | MILLIMETRES                      | SMH    | SEWER MANHOLE                       |
| BWU     | BOILING WATER UNIT               |        |                                | MOV   | MOTOR OPERATED VALVE             | SOF-DP | SIPHONIC OVERFLOW DOWNPIPE          |
| CD      | CONDENSATE DRAIN                 | GA     | GREASE ARRESTOR                |       |                                  | SPR    | SPRINKLER                           |
| CI      | CAST IRON                        | GAPO   | GREASE ARRESTOR PUMPOUT LINE   | NG    | NATURAL GAS                      | SPS    | SEWERAGE PUMPING STATION            |
| CICL    | CAST IRON CEMENT LINED           | GAS    | GAS                            | NPCW  | NONPOTABLE COLD WATER            | SRM    | SEWER RISING MAIN                   |
| CH      | CORE HOLE                        | GBP    | GAS BAYONET POINT              | NPHW  | NONPOTABLE HOT WATER             | SS     | SAFETY SHOWER                       |
| CLP     | CEMENT LINED PIPE                | GBV    | GAS BALL VALVE                 | NPHWR | NON POTABLE HOT WATER RETURN     | S/S    | STAINLESS STEEL                     |
| CO      | CLEAROUT                         | GD     | GREASE WASTE DRAINAGE          | NV    | NEEDLE VALVE                     | SSD    | SUBSOIL DRAINAGE                    |
| CO      | CLEAROUT                         | GF     | GAS FLUE                       |       |                                  | SSK    | SLOP SINK                           |
| CP      | CHROME PLATED                    | GH     | GAS HEATER                     | OF    | OVERFLOW                         | ST     | STACK                               |
| C.PIT   | COOLING PIT                      | GL     | GROUND LEVEL                   | OFD   | OVERFLOW DRAIN                   | STD    | SPRINKLER TEST DRAIN                |
| CS      | CLEANERS SINK                    | GM     | GAS METER                      | OFG   | OVERFLOW GULLY                   | STV    | STACK VENT                          |
| Cu      | COPPER                           | GMS    | GALVANISED MILD STEEL          | OFL   | OVERFLOW LEVEL                   | SUB    | SUBMERSIBLE PUMP                    |
| CV      | CHECK VALVE                      | GRV    | GREASE RELIEF VENT             | OS    | OIL SEPARATOR                    | SV     | STOP VALVE                          |
| CVP     | CHAMBER VENT PIPE                | GST    | GREASE STACK                   |       |                                  | SW     | STORMWATER                          |
| CW      | COLD WATER                       | GT     | GAS TURRET                     | Pa    | PASCAL                           | SWDP   | STORMWATER DOWNPIPE                 |
| CWRM    | COLD WATER RISING MAIN           | GTD    | GRATED TRENCH DRAIN            | PAPA  | POSITIVE AIR PRESSURE ATTENUATOR | SWIP   | STORMWATER INSPECTION PIT           |
| DA      | DRY ARRESTOR                     | GV     | GATE VALVE                     | PAT   | PRACTICAL ACTIVITY TROUGH        | SWMH   | STORMWATER MANHOLE                  |
| DBT     | DOUBLE BOWL TUB                  | GVP    | GREASE VENT PIPE               | PB    | POLYBUTYLENE                     | SWO    | STORMWATER OUTLET                   |
| DCV     | DOUBLE CHECK VALVE               | GWM    | GLASS WASHER                   | PD    | PLANTER DRAIN                    | SWP    | STORMWATER PIT                      |
| DDO     | DISH DRAIN OUTLET                | HCVB   | HOSE CONNECTION VACUUM BREAKER | PE    | POLYETHYLENE                     | SWPS   | STORMWATER PUMPING STATION          |
| DE      | DIESEL EXHAUST                   | HL     | HIGH LEVEL                     | PG    | PRESSURE GAUGE                   | SWRM   | STORMWATER RISING MAIN              |
| DF      | DRINKING FOUNTAIN                | HLA    | HIGH LEVEL ALARM               | PLV   | PRESSURE LIMITING VALVE          |        |                                     |
| DFH     | DOUBLE FIRE HYDRANT              | HT     | HOSE TAP                       | PPR   | POLYPROPYLENE                    | T      | TUB                                 |
| DICL    | DUCTILE IRON CEMENT LINED        | HW     | HOT WATER                      | PR    | PRESSURE REGULATOR               | TD     | TUNDISH                             |
| Ø       | DIAMETER                         | HWCP   | HOT WATER CIRCULATING PUMP     | PRV   | PRESSURE REDUCTION VALVE         | TD     | TRAPPED TUNDISH                     |
| DIM     | DIMENSION                        | HWM    | HOT WATER METER                | PS    | PAN STERILIZER/SANITIZER         | TG     | TEMPERATURE GAUGE                   |
| DN      | NOMINAL DIAMETER                 | HWR    | HOT WATER RETURN               | PSK   | POT SINK                         | TMV    | THERMOSTATIC MIXING VALVE           |
| DP      | DOWNPIPE                         | HWU    | HOT WATER UNIT                 | PV    | PATH VALVE                       | TPRV   | TEMPERATURE & PRESSURE RELIEF VALVE |
| D.PIT   | DILUTION PIT                     |        |                                | PVC   | UNPLASTICIZED POLYVINYL CHLORIDE | TR     | TROUGH                              |
| DS      | DRIP SINK                        | I      | IRRIGATION COLD WATER          | PVC-C | CHLORINATED POLYVINYL CHLORIDE   | TT     | THERMOSTAT                          |
| DSK     | DOUBLE BOWL SINK                 | IF     | INTERNAL FACE                  | PW    | PAN WASHER                       | TV     | TEMPERING VALVE                     |
| DV      | DIAPHRAGM VALVE                  | IL     | INVERT LEVEL                   |       |                                  | TW     | TRADE WASTE                         |
| DW      | DISHWASHER                       | IM     | ICE MACHINE                    | RCP   | REINFORCED CONCRETE PIPE         | TWL    | TOP WATER LEVEL                     |
| DWG NO. | DRAWING NUMBER                   | IO     | INSPECTION OPENING             | RDV   | RAINWATER DOWNPIPE               | TWVP   | TRADE WASTE VENT PIPE               |
| ED      | ELEVATED DRAINAGE                | IPMF   | INDUCT PIPE MICA FLAP          | RGV   | RADIANT GAS HEATER               |        |                                     |
| EJ      | EXPANSION JOINT                  | IV     | ISOLATING VALVE                | RHS   | RECTANGULAR HOLLOW SECTION       | Ur     | URINAL                              |
| EL      | EXPANSION LOOP                   |        |                                | RWDP  | RAINWATER DOWNPIPE               | U/S    | UNDERSIDE                           |
| EV      | EDUCT VENT                       | KIP    | KERB INLET PIT                 | RWH   | RAINWATER HEAD                   | U/S    | ULTRA VIOLET STERILIZER             |
| EW      | EYE WASH                         | kPa    | KILOPASCALS                    | RL    | REDUCED LEVEL                    | UW     | UTENSIL WASHER                      |
| EX or e | EXISTING                         | kw     | KILOWATTS                      | RM    | RISING MAIN                      |        |                                     |
|         |                                  |        |                                | ROW   | REVERSE OSMOSIS WATER            | VCP    | VITRIFIED CLAY PIPE                 |
|         |                                  |        |                                | RPZD  | REDUCED PRESSURE ZONE DEVICE     | VP     | VENT PIPE                           |
|         |                                  |        |                                | RRV   | RATIO REDUCTION VALVE            | VSP    | VARIABLE SPEED PUMP                 |
|         |                                  |        |                                | RV    | RELIEF VENT                      |        |                                     |
|         |                                  |        |                                | RWO   | RAINWATER OUTLET                 | WC     | WATER CLOSET                        |
|         |                                  |        |                                | RWT   | RAINWATER TANK                   | WDU    | WASTE DISPOSAL UNIT                 |
|         |                                  |        |                                |       |                                  | WHA    | WATER HAMMER ARRESTOR               |
|         |                                  |        |                                |       |                                  | WL     | WATER LEVEL                         |
|         |                                  |        |                                |       |                                  | WM     | WATER METER                         |
|         |                                  |        |                                |       |                                  | WP     | WASTE PIPE                          |
|         |                                  |        |                                |       |                                  | WSM    | WASHING MACHINE                     |
|         |                                  |        |                                |       |                                  | WT     | WASH TROUGH                         |
|         |                                  |        |                                |       |                                  | WW     | WARM WATER                          |

| SCHEDULE OF DRAWINGS |                                                       |
|----------------------|-------------------------------------------------------|
| DRAWING No.          | DRAWING TITLE                                         |
| HY-0000              | COVER SHEET, LEGEND, SYMBOLS AND SCHEDULE OF DRAWINGS |
| HY-0010              | SITE PLAN                                             |
| HY-1000              | LOWER GROUND - DRAINAGE LAYOUT                        |
| HY-1010              | UPPER GROUND - DRAINAGE LAYOUT                        |
| HY-1020              | ROOF PLAN - DRAINAGE LAYOUT                           |
| HY-2000              | LOWER GROUND - PRESSURE SERVICES LAYOUT               |
| HY-2010              | UPPER GROUND - PRESSURE SERVICES LAYOUT               |
| HY-9000              | DETAIL SHEET No.1                                     |
| HY-9001              | DETAIL SHEET No.2                                     |

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| ISSUE | DATE     | AMENDMENT         | DRAFTED BY |
|-------|----------|-------------------|------------|
| P1    | 22.05.24 | PRELIMINARY ISSUE | JH         |
| P2    | 06.12.24 | PRELIMINARY ISSUE | JH         |

XREF LINKS

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PROJECT

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INFRASTRUCTURE DEPOT  
252 COAL ROAD,  
MUSWELLBROOK NSW 2333

DRAWING TITLE  
HYDRAULIC SERVICES  
COVER SHEET, LEGEND, SYMBOLS  
AND SCHEDULE OF DRAWINGS

NORTH POINT

REVISION

DRAWN I JH  
DESIGNED I SF  
CHECKED I -

SCALE at A1  
NTS

PROJECT No.  
SYD23603  
DRAWING No.  
HY-0000

NOTE:  
FIRE HYDRANT SYSTEM DESIGN TO AS2419.1:2021  
FIRE TANK SIZING BASED ON FIRE COMPARTMENTS BEING LESS 500m2.  
FOR SEWER MAINS EXTENSION, REFER TO DRAWINGS PREPARED BY MM  
HYNDES BAILEY & CO.

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|-------|----------|-------------------|------------|
| P1    | 22.05.24 | PRELIMINARY ISSUE | JH         |
| P2    | 06.12.24 | PRELIMINARY ISSUE | JH         |

XREF LINKS

THIS DRAWING HAS BEEN PREPARED IN CONJUNCTION WITH THE FOLLOWING DRAWINGS

| Discipline | Dwg. No. | Date     | Revisions |
|------------|----------|----------|-----------|
| ARCH PLAN  | AR002    | 12.11.24 | 7         |
| ARCH RCP   |          |          |           |
| STRUCTURAL |          |          |           |
| MECHANICAL |          |          |           |
| ELECTRICAL |          |          |           |
| CIVIL      |          |          |           |
| LANDSCAPE  |          |          |           |

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PROJECT  
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252 COAL ROAD,  
MUSWELLBROOK NSW 2333  
DRAWING TITLE  
HYDRAULIC SERVICES  
SITE PLAN

NORTH POINT



REVISION

DRAWN | JH  
DESIGNED | SF  
CHECKED | -

P2

SCALE OF A1  
1:500  
0 10 20 25  
1:500

PROJECT No.

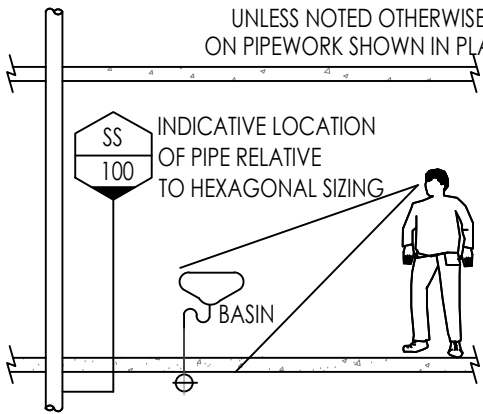
SYD23603

DRAWING No.

HY-0010

SANITARY PLUMBING SERVICES

OUT OF STRATA  
UNLESS NOTED OTHERWISE  
ON PIPEWORK SHOWN IN PLAN



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| PRINT DRAWINGS IN COLOR |          |                   |            |
|-------------------------|----------|-------------------|------------|
| ISSUE                   | DATE     | AMENDMENT         | DRAFTED BY |
| P1                      | 22.05.24 | PRELIMINARY ISSUE | JH         |
| P2                      | 06.12.24 | PRELIMINARY ISSUE | JH         |

XREF LINKS

| THIS DRAWING HAS BEEN PREPARED IN CONJUNCTION WITH THE FOLLOWING DRAWINGS |          |          |           |
|---------------------------------------------------------------------------|----------|----------|-----------|
| Discipline                                                                | Dwg. No. | Date     | Revisions |
| ARCH PLAN                                                                 | AR101    | 15.10.24 | 6         |
| ARCH RCP                                                                  |          |          |           |
| STRUCTURAL                                                                |          |          |           |
| MECHANICAL                                                                |          |          |           |
| ELECTRICAL                                                                |          |          |           |
| CIVIL                                                                     |          |          |           |
| LANDSCAPE                                                                 |          |          |           |

CLIENT

MUSWELLBROOK SHIRE COUNCIL

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PROJECT

COMMUNITY  
INFRASTRUCTURE DEPOT  
252 COAL ROAD,  
MUSWELLBROOK NSW 2333

DRAWING TITLE

HYDRAULIC SERVICES  
LOWER GROUND FLOOR  
DRAINAGE LAYOUT

NORTH POINT



DRAWN | JH  
DESIGNED | SF  
CHECKED | I-

P2

SCALE of A1

1:100  
0 1 2 3 4 5

PROJECT No.

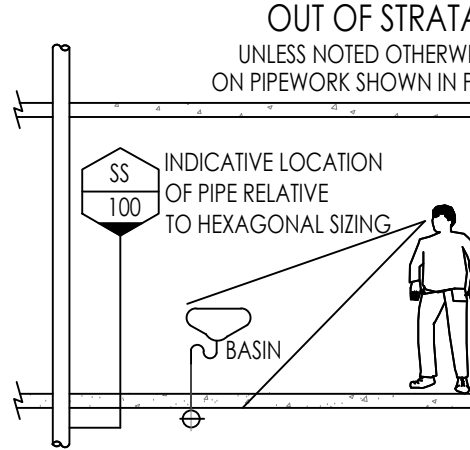
SYD23603

DRAWING No.

HY-1000

NOTES:  
REFER TO CIVIL ENGINEERS DOCUMENTATION  
FOR CONTINUATION OF DOWNPIPES

SANITARY PLUMBING SERVICES



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| ISSUE | DATE     | AMENDMENT         | DRAFTED BY |
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| P1    | 22.05.24 | PRELIMINARY ISSUE | JH         |
| P2    | 06.12.24 | PRELIMINARY ISSUE | JH         |

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|------------|----------|----------|-----------|
| ARCH PLAN  | AR100    | 15.10.24 | 6         |
| ARCH RCP   |          |          |           |
| STRUCTURAL |          |          |           |
| MECHANICAL |          |          |           |
| ELECTRICAL |          |          |           |
| CIVIL      |          |          |           |
| LANDSCAPE  |          |          |           |

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PROJECT

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MUSWELLBROOK NSW 2333

DRAWING TITLE

HYDRAULIC SERVICES  
UPPER GROUND FLOOR  
DRAINAGE LAYOUT

NORTH POINT



REVISION

DRAWN | JH  
DESIGNED | SF  
CHECKED | -

P2

SCALE OF A1  
1:100  
0 1 2 3 4 5

PROJECT No.

SYD23603

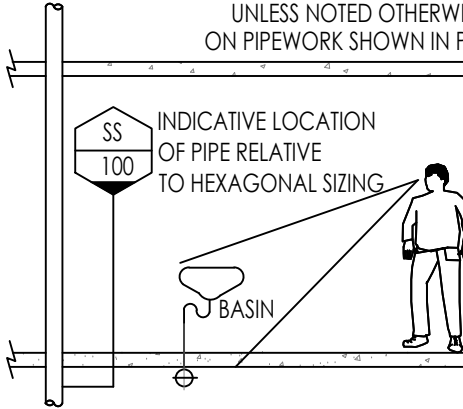
DRAWING No.

HY-1010

NOTE:  
ALL EAVES GUTTERS 150 HALF ROUND

SANITARY PLUMBING SERVICES

OUT OF STRATA  
UNLESS NOTED OTHERWISE  
ON PIPEWORK SHOWN IN PLAN



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| Discipline | Dwg. No. | Date     | Revisions |
|------------|----------|----------|-----------|
| ARCH PLAN  | AR102    | 04.09.24 | 2         |
| ARCH RCP   |          |          |           |
| STRUCTURAL |          |          |           |
| MECHANICAL |          |          |           |
| ELECTRICAL |          |          |           |
| CIVIL      |          |          |           |
| LANDSCAPE  |          |          |           |

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PROJECT

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INFRASTRUCTURE DEPOT  
252 COAL ROAD,  
MUSWELLBROOK NSW 2333

DRAWING TITLE

HYDRAULIC SERVICES  
ROOF PLAN  
DRAINAGE LAYOUT

NORTH POINT



REVISION

DRAWN | JH  
DESIGNED | SF  
CHECKED | -

P2

SCALE

1:100

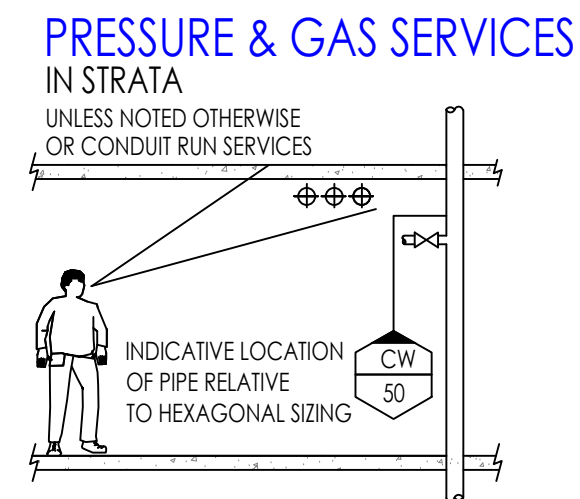
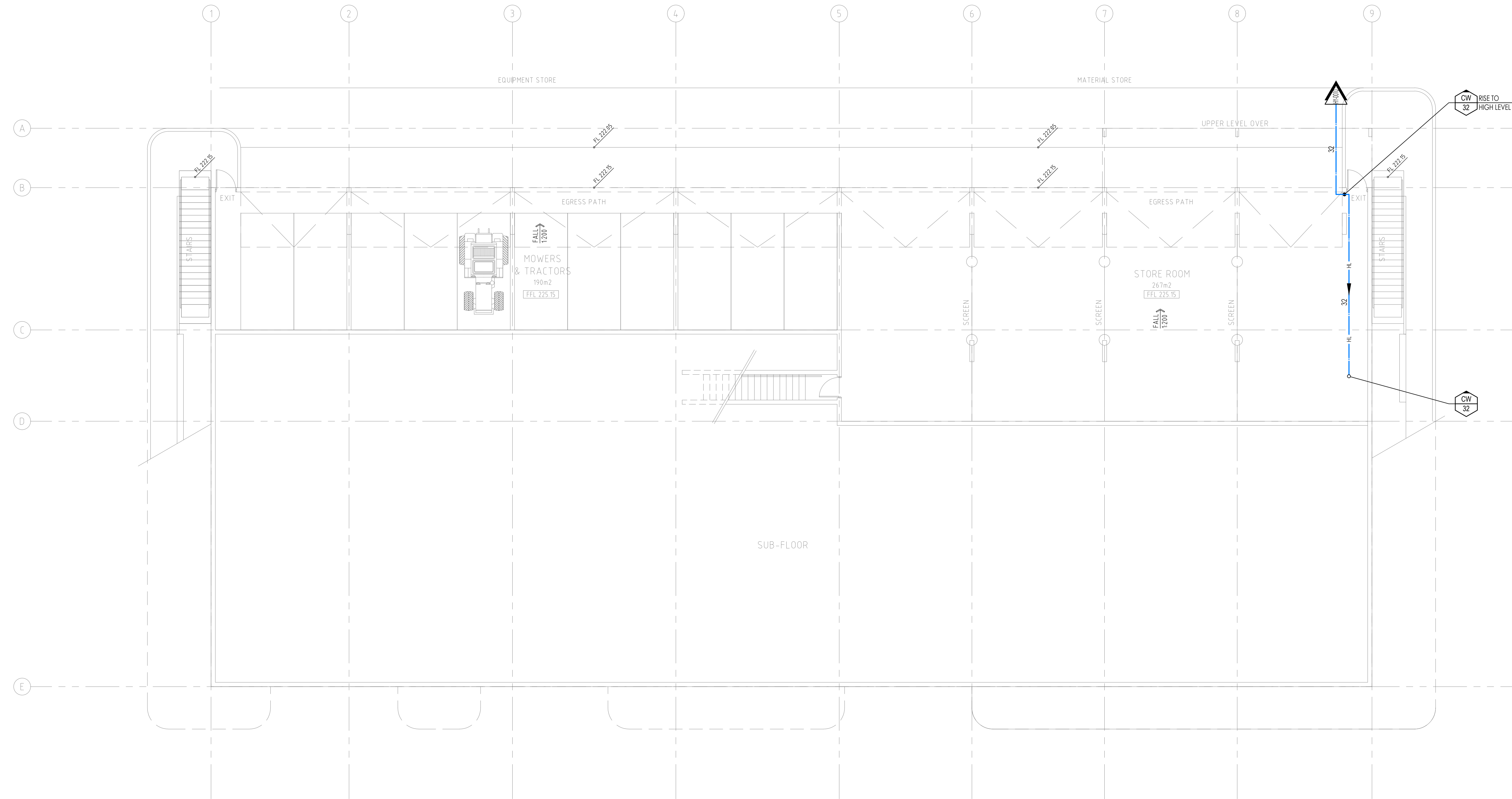


PROJECT No.

SYD23603

DRAWING No.

HY-1020



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PRINT DRAWINGS IN COLOR

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|---------------------------------------------------------------------------|----------|----------|-----------|
| Discipline                                                                | Dwg. No. | Date     | Revisions |
| ARCH PLAN                                                                 | AR101    | 15.10.24 | 6         |
| ARCH RCP                                                                  |          |          |           |
| STRUCTURAL                                                                |          |          |           |
| MECHANICAL                                                                |          |          |           |
| ELECTRICAL                                                                |          |          |           |
| CIVIL                                                                     |          |          |           |
| LANDSCAPE                                                                 |          |          |           |

CLIENT  
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PROJECT  
**COMMUNITY INFRASTRUCTURE DEPOT**  
**252 COAL ROAD,**  
**MUSWELLBROOK NSW 2333**

DRAWING TITLE  
**HYDRAULIC SERVICES**  
**LOWER GROUND FLOOR**  
**PRESSURE SERVICES LAYOUT**

NORTH POINT  
  
DRAWN | JH  
DESIGNED | SF  
CHECKED | I-

REVISION  
**P2**

SCALE of A1  
1:100  
0 1 2 3 4 5  
1:100

PROJECT No.  
**SYD23603**

DRAWING No.  
**HY-2000**



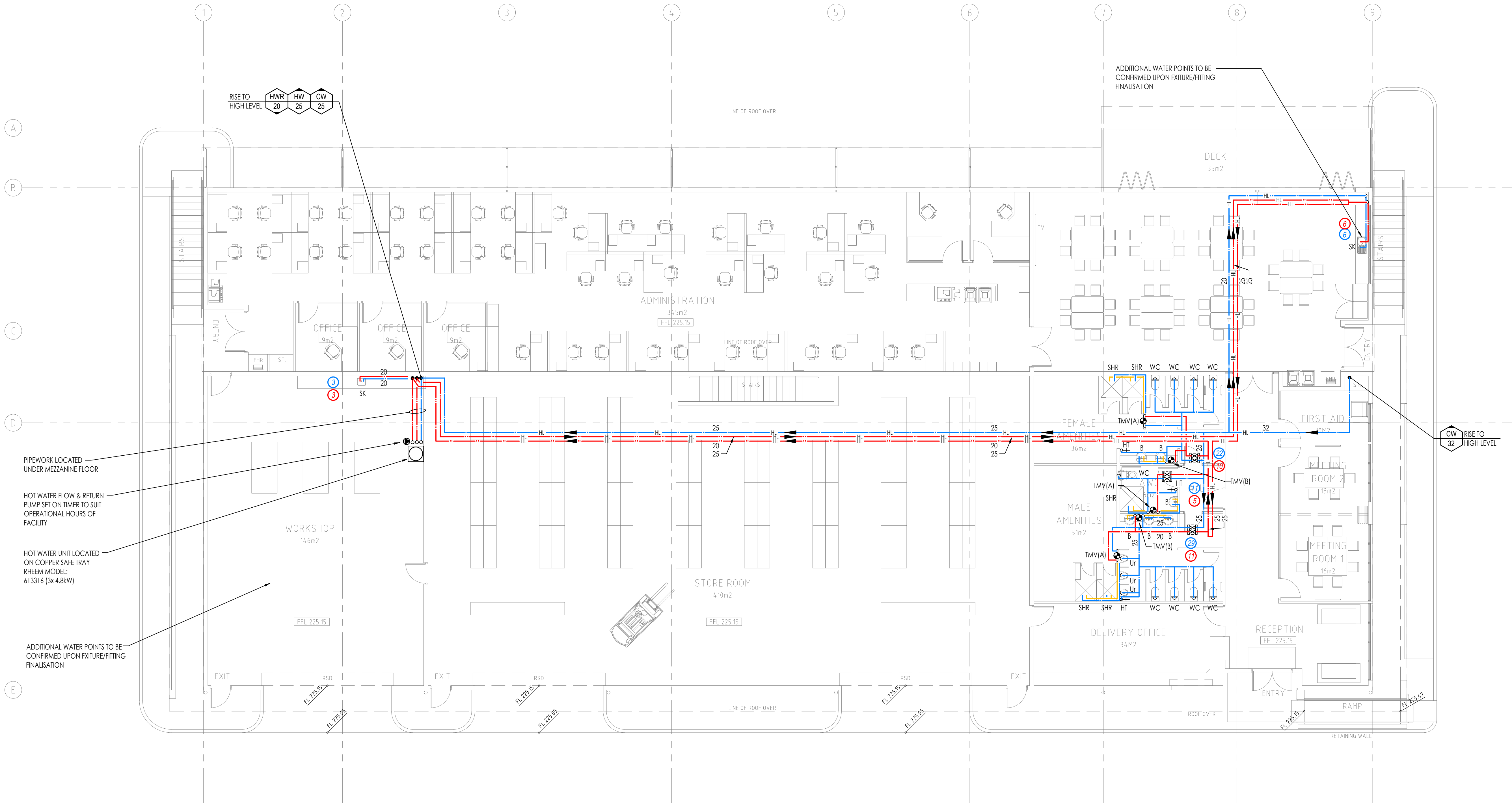
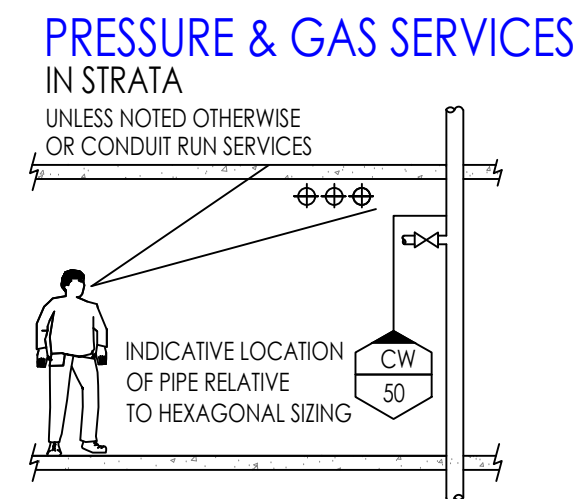
NOTE:

NCC 2022 E1D3 (2) REQUIRES FIRE HOSE REELS TO BE PROVIDED WHERE ONE OR MORE INTERNAL HYDRANTS ARE INSTALLED OR WHERE ANY FIRE COMPARTMENT WITH A FLOOR AREA GREATER THAN 500m2.

NO FIRE HOSE REELS HAVE BEEN PROVIDED AS IT IS UNDERSTOOD THE FIRE COMPARTMENT SIZES ARE LESS THAN 500m2. REFER TO DRAWING HY-0010 REGARDING COMPARTMENT REQUIREMENTS FOR THE FIRE HYDRANTS

TMV(A): PROVIDE INWALL TMV WITHIN STAINLESS STEEL BOX MAXIMUM 1500 ABOVE FINISHED FLOOR LEVEL

TMV(B): PROVIDE INWALL TMV WITHIN STAINLESS STEEL BOX BELOW BASINS.



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|------------|----------|----------|-----------|
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| ARCH RCP   |          |          |           |
| STRUCTURAL |          |          |           |
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| ELECTRICAL |          |          |           |
| CIVIL      |          |          |           |
| LANDSCAPE  |          |          |           |

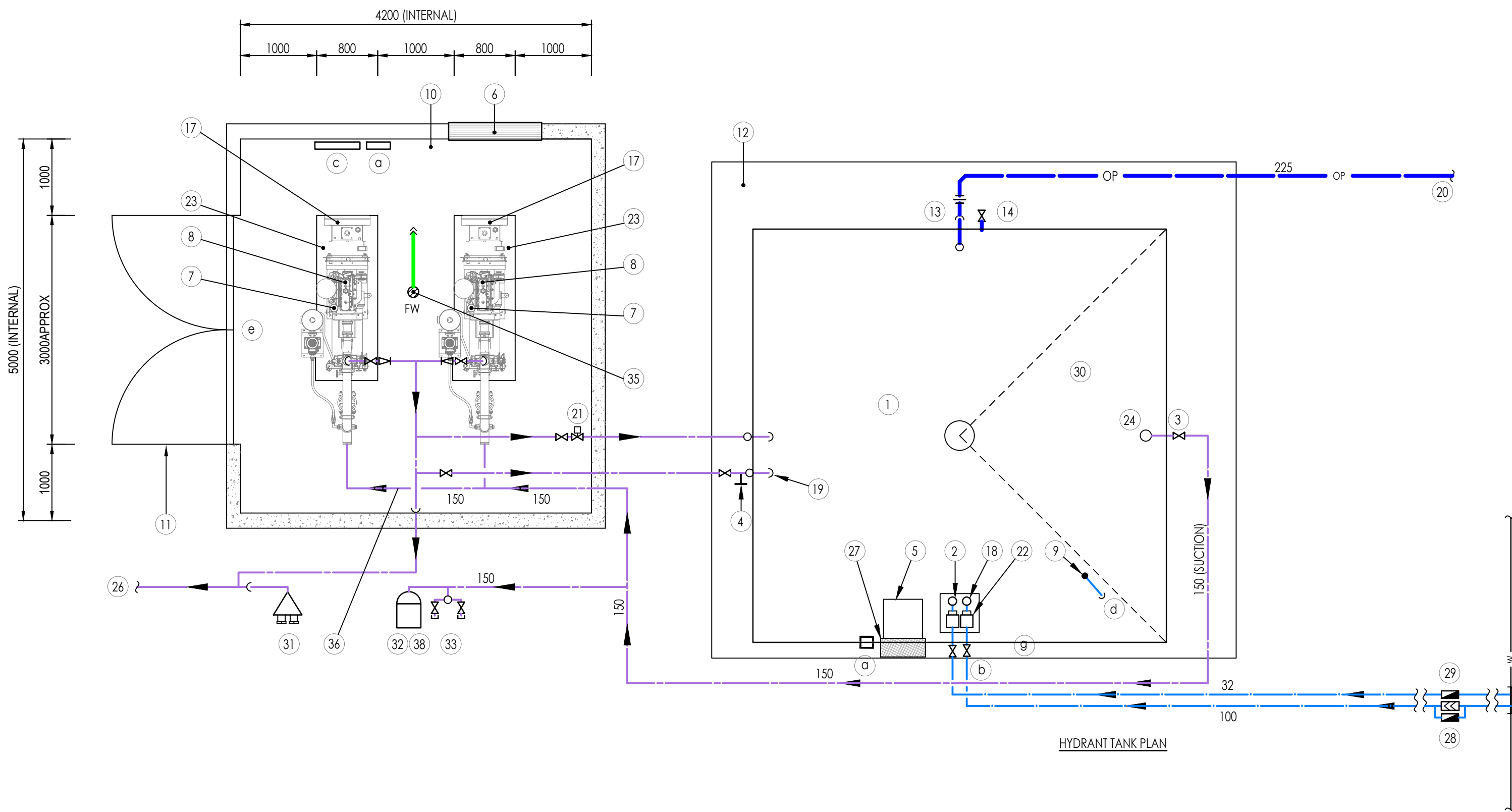
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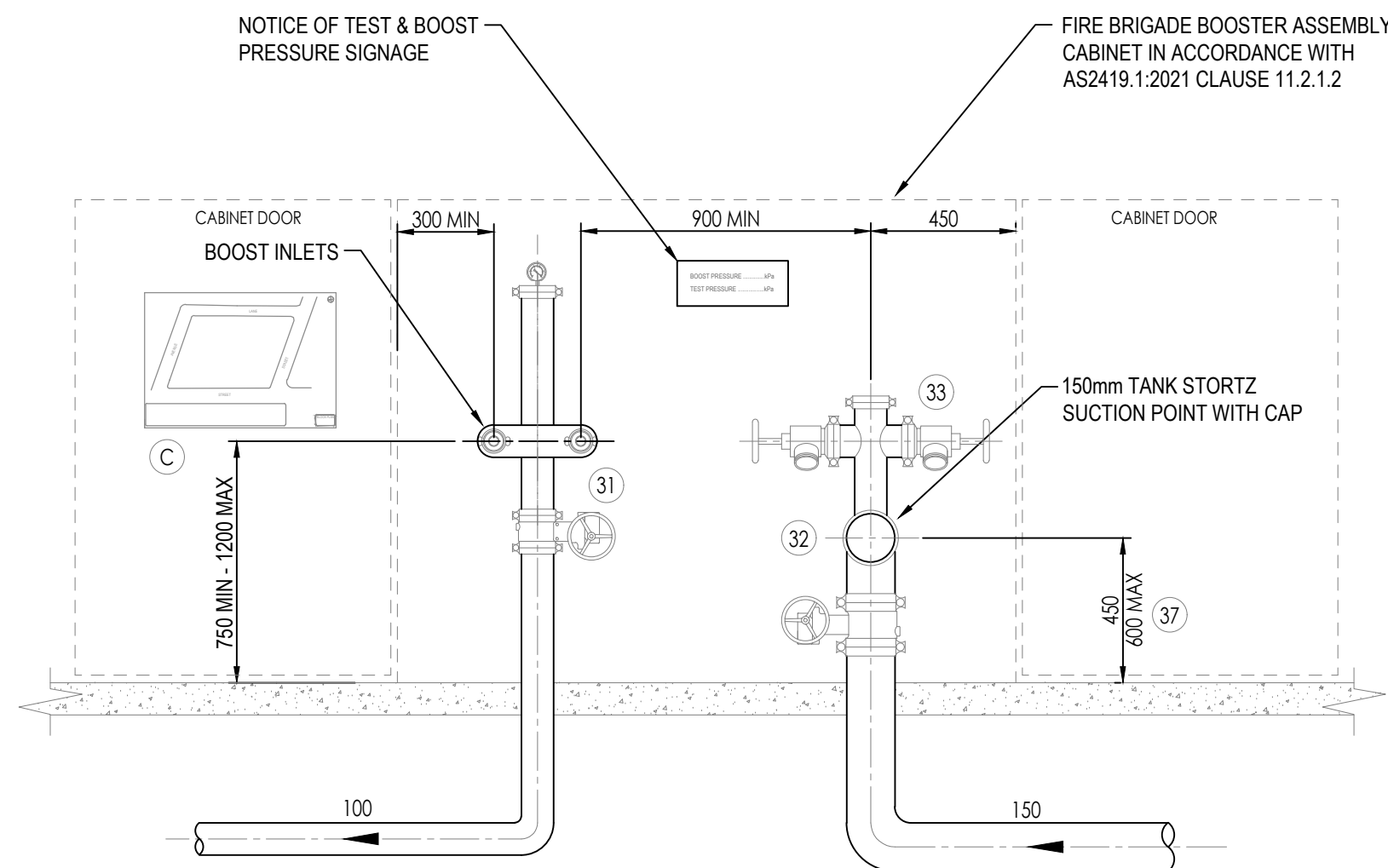
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252 COAL ROAD,  
MUSWELLBROOK NSW 2333  
DRAWING TITLE  
HYDRAULIC SERVICES  
UPPER GROUND FLOOR  
PRESSURE SERVICES LAYOUT

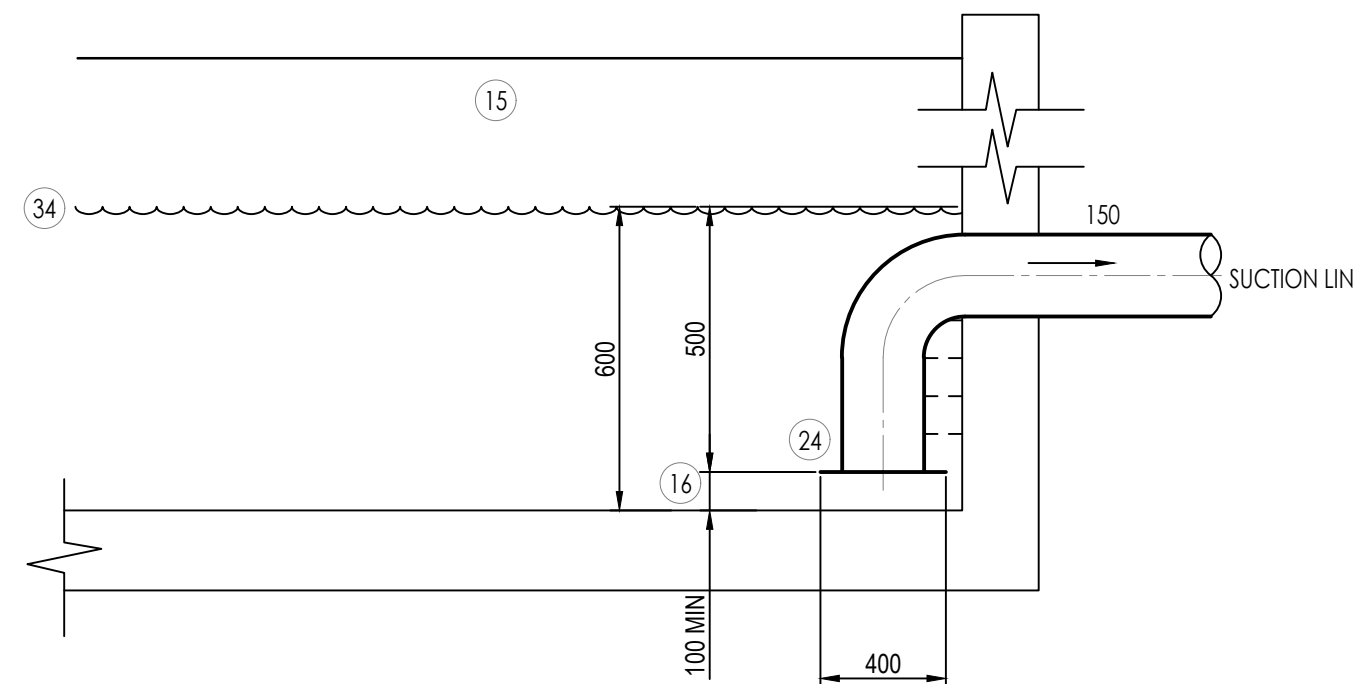
NORTH POINT  
DRAWN | JH  
DESIGNED | SF  
CHECKED | -  
SCALE of A1  
1:100  
PROJECT No.  
SYD23603  
DRAWING No.  
HY-2010



**D1** HYDRANT TANK & PUMP CONFIGURATION  
HY-0010 SCALE: 1:50



**D2** FIRE HYDRANT BOOSTER  
HY-0010 SCALE: 1:20



VORTEX INHIBITOR PLATE - BASED ON 150mm SUCTION LINE

#### KEY NOTES:

- FIRE HYDRANT TANKS. EACH TANK MUST HAVE EQUAL EFFECTIVE CAPACITY
- 32mm PHILMAC SERVO FILLING VALVES. (MUST BE OF METERED SUPPLY)
- 150mm RISING SPINDLE GATE VALVE
- ANNUBAR TEST PORT
- 900x900mm HINGED LOCKABLE VERMIN PROOF ACCESS WITH COMPLETE 003 COMPATIBLE PADLOCK
- VENTILATION TO PUMP HOUSE. REFER TO MECHANICAL DOCUMENTATION
- DIESEL EXHAUST TO TERMINATE TO LOCATION SO AS NOT TO CAUSE NUISANCE.
- HYDRANT PUMPS TO BE SUPPLIED, INSTALLED & COMMISSIONED IN ACCORDANCE WITH AS2419 AS1851 & AS2941
- WATER LEVEL INDICATOR
- EXTERNAL PUMP HOUSING TO ARCHITECTURAL DETAILS. IF PUMP ROOM IS LOCATED WITHIN 6m OF BUILDING BEING PROTECTED WHICH IS NOT SPRINKLER PROTECTED, FIRE RATING IS REQUIRED AS PER AS2419.1:2021 CLAUSE 6.11(B) & NCC.
- ACCESS DOORS - IF PUMP ROOM WITHIN 6m OF BUILDING BEING PROTECTED, DOORWAYS TO BE PROTECTED WITH SELF CLOSING DOORS AS PER AS2419.1:2021 CLAUSE 6.11(B) (ii)
- CONCRETE SLAB TO SUPPORT PUMP HOUSE & TANKS TO STRUCTURAL ENGINEERS DETAILS
- 150mm TANK OVERFLOW DISCHARGING TO A 225mm TUNDISH. THE OPENING OF THE OVERFLOW IS TO HAVE A STAINLESS STEEL MESH SCREEN FITTED WITH OPENINGS OF A MAXIMUM OF 1.0mm TO PREVENT ENTRY OF VERMIN
- 50mm SLUDGE VALVE
- MAXIMUM WATER LEVEL MUST BE SET TO ACHIEVE MINIMUM EFFECTIVE STORAGE CAPACITY
- MINIMUM 100mm SLUDGE HEIGHT ALLOWANCE
- HYDRANT PUMP CONTROL PANEL
- INLET VALVE BOX
- ANNUBAR TEST LINE IS TO DISCHARGE TO TANK (SIZED BY PUMP MANUFACTURER)
- CONNECT TO STORMWATER DRAINAGE SYSTEM
- MODULATING RELIEF VALVE TO DISCHARGE TO TANK
- 100mm AUTOMATIC QUICKFILL WITH GATE VALVE OFF UNMETERED SUPPLY (REDUCED CAPACITY TANKS)
- HYDRANT PUMP BASE PLATE TO AS 2941:2013 CLAUSE 11.7
- 10mm THICK FLAT PLATE VORTEX INHIBITOR OF NOT LESS THAN 400mm WITH CORROSION PROTECTION
- ALL CONTROL VALVES ARE TO BE GATE VALVES TO MINIMIZE PRESSURE LOSE
- CONTINUE TO HYDRANTS AS INDICATED ON PLAN
- INTERNAL AND EXTERNAL ACCESS PLATFORMS COMPLETE WITH STAINLESS STEEL ACCESS LADDERS SHALL BE PROVIDED FOR INSPECTION & SERVICING OF TANK VALVES IN COMPLIANCE WITH AS1657
- TESTABLE DOUBLE CHECK VALVE WITH METERED BY-PASS
- DOMESTIC WATER METER ARRANGEMENT
- TANK INLET EXCLUSION QUADRANT
- TANK TYPE HYDRANT BOOSTER
- 150mm TANK STORTZ SUCTION POINT WITH CAP
- 65mm TANK SUCTION POINTS TO MEET THE LOCAL BRIGADE REQUIREMENTS. VALVES MUST BE GATE VALVES WITH STORTZ CONNECTION
- LOW WATER LEVEL. EFFECTIVE STORAGE CAPACITY ABOVE
- FLOOR WASTE PROVIDED IN ACCORDANCE WITH AS2941:2013 CLAUSE 11.6
- ALL EXPOSED PIPEWORK LOCATED WITHIN THE PUMPROOM TO BE PAINTED RED IN ACCORDANCE WITH AS2941:2013 CLAUSE 11.9 & AS1345
- HEIGHT OF CENTERLINE OF LARGE BORE CONNECTION TO BE BETWEEN 450-600mm ABOVE THE FINISHED SURFACE OF THE HARDSTAND.
- TANK SUCTION TO BE LOCATED NOT MORE THAN 4.5m FROM HARDSTAND
- MAXIMUM FRICTION LOSS SHALL BE 20kPa & MAXIMUM VERTICAL LIFT SHALL BE 3m FROM THE LOW WATER LEVEL IN ACCORDANCE WITH AS2419.1:2021 CLAUSE 4.4

#### SIGNAGE NOTES:

- SIGNAGE SHALL BE PROVIDED ON A FADE RESISTANT ALUMINIUM SHEET WITH A RED BACK GROUND & LETTERS SHALL BE WHITE IN COLOUR. SIZING AND LOCATIONS SHALL BE IN ACCORDANCE WITH AS2419 & AS2304 FOR THE FOLLOWING ITEMS
- "FIRE HYDRANT TANK (CAPACITY IN LITRES)" ON TANKS
  - "TANK QUICKFILL VALVE"
  - HYDRANT BLOCK PLAN
  - WATER LEVEL INDICATOR
  - HYDRANT PUMP ROOM

#### GENERAL NOTES:

- ALL WORKS RELATED TO THE INSTALLATION & COMMISSIONING OF THE HYDRANT PUMPS AND TANKS IS TO BE IN ACCORDANCE WITH AS2419, AND AS1851
- PUMP INLETS MUST REMAIN LEVEL OR BELOW TANK OUTLETS
- TANKS MUST BE LOCATED A MINIMUM OF 10 METRES AWAY FROM THE BUILDING IT SERVES

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DRAWING TITLE  
HYDRAULIC SERVICES  
DETAILS

NORTH POINT

REVISION

DRAWN | JH  
DESIGNED | SF  
CHECKED | -

P2

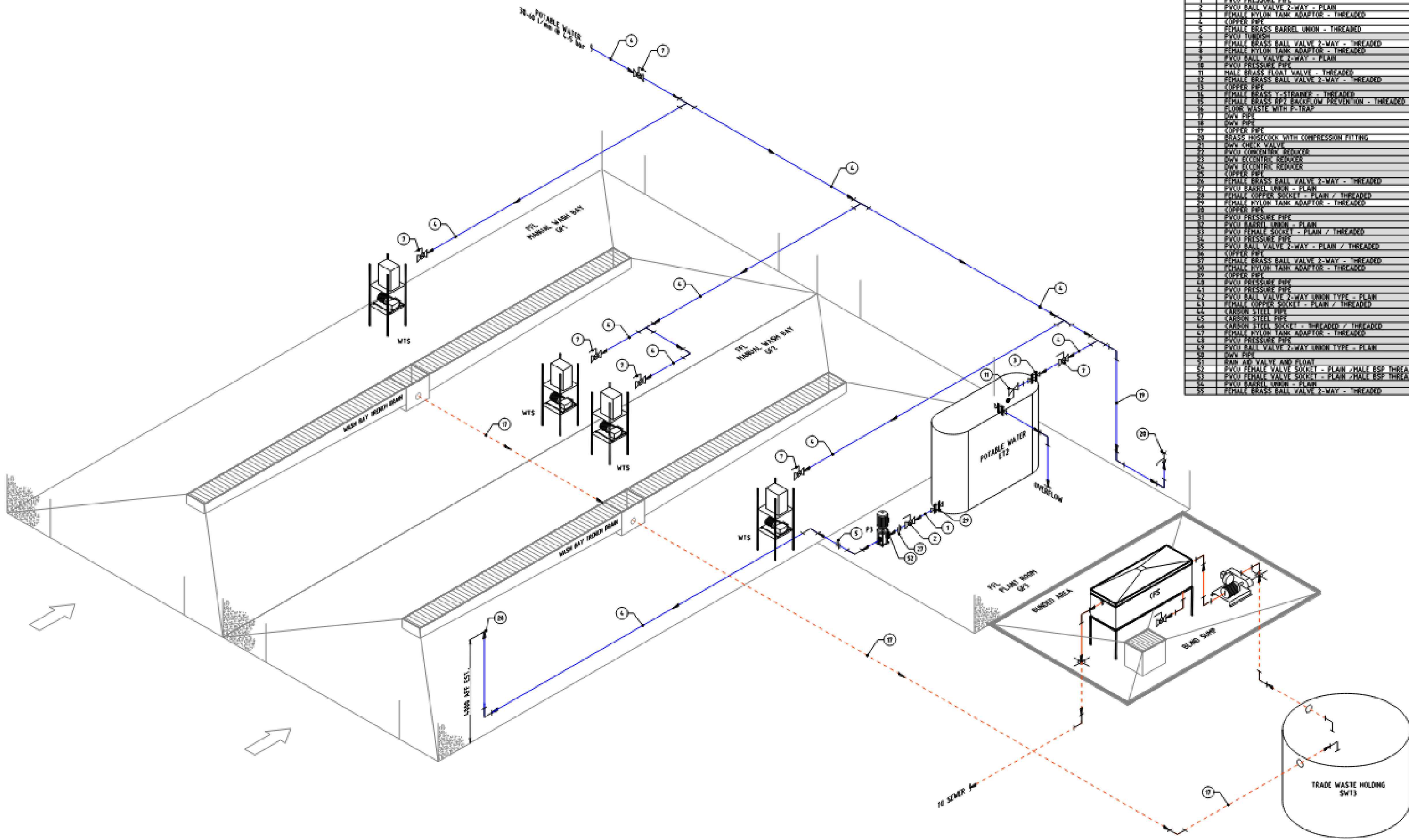
SCALE of A1  
NTS

PROJECT No.

SYD23603

DRAWING No.

HY-9000



| PIPING SCHEDULE |                                               |        |                 |                            |
|-----------------|-----------------------------------------------|--------|-----------------|----------------------------|
| ID              | DESCRIPTION                                   | CLASS  | NOM. SIZE (mm)  | QUANTITY (est.)            |
| 1               | PVCU PRESSURE PIPE                            | PH12   | 40              | TBC BY BUILDING CONTRACTOR |
| 2               | PVCU BALL VALVE 2-WAY - PLAN                  | PH12   | 40              | 1                          |
| 3               | PVCU RYTON TANK ADAPTOR - THREADED            | QTR    | 40              | 1                          |
| 4               | COPPER PIPE                                   | IR     | 25              | TBC BY BUILDING CONTRACTOR |
| 5               | PVCU BRASS BARREL UNION - THREADED            | IR     | 25              | 1                          |
| 6               | PVCU TUBING                                   | DMV    | 100             | 4                          |
| 7               | PVCU BRASS BALL VALVE 2-WAY - THREADED        | IR     | 25              | 1                          |
| 8               | PVCU RYTON TANK ADAPTOR - THREADED            | QTR    | 40              | 1                          |
| 9               | PVCU BALL VALVE 2-WAY - PLAN                  | PH12   | 40              | 1                          |
| 10              | PVCU PRESSURE PIPE                            | PH12   | 40              | 1                          |
| 11              | HALF BRASS TIGON VALVE - THREADED             | IR     | 25              | 1                          |
| 12              | PVCU BRASS BALL VALVE 2-WAY - THREADED        | IR     | 25              | 1                          |
| 13              | COPPER PIPE                                   | IR     | 40              | 1                          |
| 14              | PVCU BRASS Y-STEEBER - THREADED               | IR     | 40              | 1                          |
| 15              | PVCU BRASS RPT BACKFLOW PREVENTION - THREADED | IR     | DNH             | 1                          |
| 16              | CLOSURE WASSE WITH P-TRAP                     | SM     | 100             | 1                          |
| 17              | CLOSURE WASSE WITH P-TRAP                     | SM     | 100             | 1                          |
| 18              | DNV PIPE                                      | SM     | 40              | TBC BY BUILDING CONTRACTOR |
| 19              | COPPER PIPE                                   | IR     | 25              | 1                          |
| 20              | BRASS DROPCOCK WITH COMPRESSION FITTING       | IR     | 25              | 1                          |
| 21              | PVCU GATE VALVE                               | SM     | 100             | 1                          |
| 22              | PVCU CONVENTION REDUCER                       | PH12   | OUTLET 100 X 40 | 1                          |
| 23              | DNV CONVENTION REDUCER                        | SM     | OUTLET 100 X 50 | 1                          |
| 24              | PVCU CONVENTION REDUCER                       | PH12   | OUTLET 100 X 25 | 1                          |
| 25              | COPPER PIPE                                   | IR     | 15              | 1                          |
| 26              | PVCU BRASS BALL VALVE 2-WAY - THREADED        | IR     | 25              | 1                          |
| 27              | PVCU BRASS BALL VALVE 2-WAY - THREADED        | IR     | 40              | 1                          |
| 28              | PVCU TUBING                                   | DMV    | 100             | 1                          |
| 29              | PVCU RYTON TANK ADAPTOR - THREADED            | QTR    | 40              | 1                          |
| 30              | COPPER PIPE                                   | IR     | 25              | 1                          |
| 31              | PVCU PRESSURE PIPE                            | PH12   | 40              | 1                          |
| 32              | PVCU TUBING                                   | DMV    | 100             | 1                          |
| 33              | PVCU TUBING                                   | DMV    | 100             | 1                          |
| 34              | PVCU PRESSURE PIPE                            | PH12   | 40              | 1                          |
| 35              | PVCU BALL VALVE 2-WAY - PLAN / THREADED       | PH12   | 40              | 1                          |
| 36              | COPPER PIPE                                   | IR     | 25              | 1                          |
| 37              | PVCU BRASS BALL VALVE 2-WAY - THREADED        | IR     | 25              | 1                          |
| 38              | PVCU RYTON TANK ADAPTOR - THREADED            | QTR    | 40              | 1                          |
| 39              | COPPER PIPE                                   | IR     | 25              | 1                          |
| 40              | PVCU PRESSURE PIPE                            | PH12   | 40              | 1                          |
| 41              | PVCU PRESSURE PIPE                            | PH12   | 40              | 1                          |
| 42              | PVCU BALL VALVE 2-WAY UNION TYPE - PLAN       | PH12   | 40              | 1                          |
| 43              | PVCU TUBING SOCKET - PLAN / THREADED          | PH12   | 40              | 1                          |
| 44              | CARBON STEEL PIPE                             | STC100 | DNH             | 1                          |
| 45              | CARBON STEEL PIPE                             | STC100 | DNH             | 1                          |
| 46              | CARBON STEEL SOCKET - THREADED / THREADED     | STC100 | DNH             | 1                          |
| 47              | PVCU RYTON TANK ADAPTOR - THREADED            | QTR    | 100             | 1                          |
| 48              | PVCU PRESSURE PIPE                            | PH12   | 100             | 1                          |
| 49              | PVCU BALL VALVE 2-WAY UNION TYPE - PLAN       | PH12   | 100             | 1                          |
| 50              | DNV PIPE                                      | SM     | 100             | 1                          |
| 51              | PVCU PRESSURE PIPE                            | PH12   | 100             | 1                          |
| 52              | PVCU BALL VALVE 2-WAY UNION TYPE - PLAN       | PH12   | 100             | 1                          |
| 53              | PVCU TUBING SOCKET - PLAN / THREADED          | PH12   | 100             | 1                          |
| 54              | PVCU TUBING SOCKET - PLAN / THREADED          | PH12   | 100             | 1                          |
| 55              | PVCU BRASS BALL VALVE 2-WAY - THREADED        | IR     | 25              | 1                          |

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| ISSUE | DATE     | AMENDMENT         | DRAFTED BY |
|-------|----------|-------------------|------------|
| P1    | 22.05.24 | PRELIMINARY ISSUE | JH         |
| P2    | 06.12.24 | PRELIMINARY ISSUE | JH         |

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REVISION

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P2

SCALE of A1  
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PROJECT No.

SYD23603

DRAWING No.

HY-9001