

SCHEDULE OF DRAWINGS

5460-H01	SPECIFICATION & LEGEND		
5460-H02	SITE PLAN		
5460-H03	SEWER & STORMWATER LAYOUT		
5460-H04	GROUND FLOOR SEWER, STORMWATER WATER & GAS LAYOUT		
5460-H05	FIRST FLOOR SEWER, STORMWATER & WATER LAYOUT		

GENERAL NOTES

- LOCATION OF EXISTING SERVICES HAS BEEN DETERMINED FROM SITE VISITS AND EXISTING RECORD PLANS. NO PROVING OF SERVICES HAS BEEN UNDERTAKEN. THE CONTRACTOR SHALL PROVE ALL SERVICES BEFORE COMMENCING CONSTRUCTION AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCIES BEFORE PROCEEDING. ALLOW FOR ALL SITE CONDITIONS. THE CONTRACTOR MUST CO-ORDINATE WITH ALL OTHER SERVICES INCLUDING DRAINAGE, MECHANICAL EQUIP, STORMWATER, WATER, GAS, TESTIAL, ELECTRICAL SERVICES, ETC.
- ALL SERVICES AND SERVICES DAMAGED OR DISTURBED DURING THE PROGRESS OF THESE WORKS ARE TO BE MADE GOOD WITH MATERIALS OF A SIMILAR NATURE TO MATCH EXISTING CONDITIONS AND AT CONTRACTOR'S EXPENSE AND TO THE SUPERVISING ENGINEER'S SATISFACTION.
- ON COMPLETION OF THE WORKS THE CONTRACTOR SHALL CLEAN UP THE SITE AND CARRY AWAY ALL SURPLUS MATERIALS AND DEBRIS ARISING FROM THIS CONTRACT TO THE SATISFACTION OF THE SUPERINTENDENT.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE LOCATION OF DUCTS, FIXTURES AND THE BUILDING LAYOUT AND DIMENSIONS WHERE DRAWINGS SHOW PIPING SERVICES SUPERPOSED ON BUILDING PLANS. USE THEM ONLY FOR PIPING SERVICES AND PURPOSES. IF THE ULTIMATE CONDITION OF THE BUILDING NECESSITATES ANY ALTERATIONS IN ARRANGEMENT OBTAIN THE APPROVAL OF THE ENGINEER BEFORE PROCEEDING.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- PIPEWORK ROUTES INDICATED ON THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OVERALL CO-ORDINATION OF HYDRAULIC SERVICES WHERE IN PROXIMITY TO OTHER BUILDING SERVICES AND IN COMPLIANCE WITH AUTHORITY REGULATIONS.
- IF ANY DISCREPANCY OCCURS ON THE ENGINEER'S DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS THE CONTRACTOR SHALL DRAWING TENDERS ASSUME THE LIABILITY FOR ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT ASSSO, CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY EXCEPT WHERE VARYED BY THE PROJECT SPECIFICATION.
- ALL DIMENSIONS SHOWN SHALL BE VERIFIED ON SITE. ENGINEER'S DRAWINGS MUST NOT BE SCALED.
- SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER AND BE INCLUDED IN ANY TENDER.
- DURING CONSTRUCTION ALL BUILDINGS STRUCTURES, PARAPETS, KERBS, ETC SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- SUPPLY, INSTALL AND COMMISSION ALL THE HYDRAULIC SERVICES AS SHOWN ON THE DRAWINGS.
- PROVIDE ALL NECESSARY SLEEVES FOR PENETRATIONS THROUGH CONCRETE, BRICKWORK, AND BUILDING FINISHERS TO ACCOMMODATE PIPEWORK. PENETRATIONS SHOWN ON THE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO THEIR CONSTRUCTION. PENETRATIONS REQUIRED THROUGH CONSTRUCTED CONCRETE SHALL BE CORE DRILLED BY THE BUILDER, NO WORK SHALL COMMENCE BEFORE WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER.
- ALL DIMENSIONS NOTED ARE IN MILLIMETRES AND PIPEWORK SIZES SHOWN ARE IN NOMINAL BORE DIAMETER UNLESS NOTED OTHERWISE.
- ALL PENETRATIONS THROUGH FIRE RATED ELEMENTS SHALL BE FITTED WITH AN APPROVED FIRE COLLAR OR GAP SEALANT, IN ACCORDANCE WITH BCA CLAUSE 3.15, AS 4072.1 & AS 5034.4.
- ALL PIPEWORK EMBEDDED IN CONCRETE OR OTHER SURFACES ARE TO BE INSULATED TO ALLOW FOR EXPANSION AND CONTRACTION MOVEMENT.
- FOR IDENTIFICATION OF PIPING SERVICES PROVIDE COLOUR IDENTIFICATION BANDS 50MM WIDE AT A MAXIMUM OF 3M CENTRES IN ACCORDANCE WITH AS 194.5. WHERE PIPES ARE CONCEALED IDENTIFICATION MARKERS SHALL BE "SAFETYMAN" ADHESIVE PIPE MARKERS OR EQUAL. APPROVED ALL VALVES SHALL BE TAGGED WITH TAGH/POLITE LABELS OR EQUAL APPROVED IDENTIFYING SERVICE & FUNCTION.
- BEFORE PRACTICAL COMPLETION SUBMIT ALL TEST RESULTS FROM RELEVANT AUTHORITIES. AS BUILT DRAWINGS AND MANUALS. OBTAIN CERTIFICATES OF SATISFACTORY COMPLETION FROM RELEVANT AUTHORITIES.
- BACKFILLING TO ALL PIPEWORK BELOW CONCRETE FLOOR SLABS AND PAVEMENTS SHALL BE CONSOLIDATED CLASS 2 GUSHED ROCK COMPACTED TO 98% STANDARD DRY DENSITY.
- THE CONTRACTOR SHALL PAY ALL FEES AND AUTHORITY CHARGES RELATING TO APPLICATIONS FOR APPROVAL AND WORKS ASSOCIATED WITH SEWER DRAINAGE CONNECTIONS AND WATER TAPPING CONNECTIONS, METERS, PLUGGINGS AND ROAD OPENING PERMITS, ETC.
- ALL OVER-EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.
- THE CONTRACTOR SHALL ALLOW FOR THE CUTTING AND SEALING OF ALL EXISTING DISUSED BRANCHES TO SEWER AND WATER SUPPLIES WHETHER INDICATED ON DRAWINGS OR NOT. ALL DISUSED PIPEWORK WHERE INTERFERING WITH PROPOSED WORK SHALL BE DEMOLISHED AND REMOVED FROM SITE.
- ALL SERVICES AS SHOWN ARE SCHEMATIC ONLY BUT ARE CONSIDERED TO COMPLY WITH ALL AUTHORITY REQUIREMENTS. THE CONTRACTOR SHALL ALLOW FOR THE COST OF A FULL HYDRAULIC SERVICE DESIGN TO BE CARRIED OUT. THE CONTRACTOR SHALL ALLOW FOR ALTERATION TO THE HYDRAULIC DESIGN AS REQUIRED TO COMPLY WITH ALL AUTHORITY REQUIREMENTS.
- PIPING, CONTRACTOR SHALL ALLOW TO PROVIDE ALL HYDRAULIC SERVICES FOR MECHANICAL EQUIPMENT'S REQUIRED & SHALL ALLOW TO CO-ORDINATE WITH THE MECHANICAL CONSULTANT.

WATER SERVICES NOTES

- THE CONTRACTOR SHALL SUPPLY, INSTALL, TEST & COMMISSION THE SYSTEM TO THE PROPOSED BUILDING IN ACCORDANCE WITH THE FOLLOWING STANDARDS & AUTHORITIES REQUIREMENTS:
AS 5001.1 - WATER SUPPLY
LOCAL WATER AUTHORITY
NATIONAL CONSTRUCTION CODE
- APPLY TO WATER AUTHORITY FOR ALL NECESSARY PERMITS/AGREEMENTS & PAY ALL FEES & CHARGES ASSOCIATED WITH THE WORKS.
- PIPE FITTINGS AND SLUIE VALVES INSTALLED UNDERGROUND FOR THE WATER SERVICES SHALL BE APPROPRIATELY & COMPLETELY GROUND WRAPPED TO PROTECT AGAINST CORROSION. BOLTS & NUTS TO FLANGE CONNECTIONS SHALL BE HOT DIPPED GALVANISED.
- DISSIMILAR METALS SHALL BE ISOLATED FROM EACH OTHER BY APPROVED METHODS OF JOINTING OR INSULATION WHICH SHALL PROVIDE PROTECTION AGAINST ELECTROLYTIC CORROSION.
- WHERE BRACING HAS TO BE CARRIED OUT NEAR THE BUILDING ABOVE/AT PROTECTION BE BETWEEN PIPES & BUILDING SHALL BE PROVIDED.
- SUPPLY AND INSTALL ALL DOMESTIC WATER SUPPLY PIPEWORK IN ACCORDANCE WITH AS1424 IN SOLID DRAMA SEAMLESS COPPER. TUBE TYPE "B" UNLESS OTHERWISE SHOWN ON PLAN. SUPPORT PIPES IN ACCORDANCE WITH AS 3500 & BY-LAWS - WATER SUPPLY.
- INSTALL HOT WATER PIPE IN ACCORDANCE WITH AS 1529-1974. INSULATE HOT WATER PIPING WITH FOL-FLEX LAGGING 25mm THICK OR OTHER APPROVED MATERIAL.
- SUPPLY AND INSTALL ALL GAS SUPPLY PIPEWORK IN SOLID DRAMA SEAMLESS COPPER TUBE TYPE B. CONNECT COPPER PIPE WITH BRAZED SILVER SOLDERED JOINTS TO AS 1645.
- DOMESTIC WATER PIPING SHALL BE A MINIMUM OF 20MM DIAMETER EXCEPT FOR THE LAST 1M TO A SINGLE FIXTURE WHICH MAY BE 15MM DIAMETER.
- PROVIDE 25MM MINIMUM CLEAR OF WALLS AND EACH OTHER SO AS TO PROVIDE EASY ACCESS.
- CONCEAL ALL PIPEWORK WHEREVER POSSIBLE WITHIN DUCTS, WALL CAVITIES AND CEILING SPACES. UNLESS PIPEWORK IS WITHIN A PLANT ROOM WHERE IT SHALL BE EXPOSED. PROVIDE GROUND PLATE PIPEWORK TO ALL EXPOSED PIPEWORK IN APPOINTED AREAS.
- PROVIDE FIX AND CONNECT HOT AND COLD WATER IN POSITIONS SHOWN INCLUDING ALL NECESSARY BRACKETS, FINISH BOLTS, SCREWS, BREAKING PRETS, TAPS, HOT WATER UNITS, ETC.
- INTERCONNECTION WITH PORTABLE WATER AND WATER SERVING SANITARY FLUSHING CISTERNS, REFRIGERANT UNITS, ANY SUBMERGED OUTLETCISTERS, GLASS AND DISHWASHERS, COFFEE MACHINES, BAN-MACHINES, FOOD WASTE DISPOSAL UNITS, GARBAGE CAN WASHERS, ICE-MAKING MACHINES, REFRIGERATORS, HOGS, WHEN SUPPLYING WATER TO SINKS OR OTHER RECEPTACLES, TO BE SUPPLIED WITH SUITABLE APPROVED BACKFLOW PREVENTION DEVICE AS PER AS 3500.
- PROVIDE ISOLATION VALVES AS REQUIRED. THESE SHALL BE READILY ACCESSIBLE AND SHALL BE NOMINAL DIAMETER AS THE PIPE TO WHICH IT IS FITTED. ISOLATION VALVES SHALL BE GATE VALVES EXCEPT AT EACH CISTERN, DRINKING FOUNTAIN, HOT WATER UNIT OR LINE, WHERE STOP VALVES SHALL BE INSTALLED.
- TAKE ALL NECESSARY PRECAUTIONS TO PREVENT WATER HAMMER AND RECTIFY SHOULD IT OCCUR.
- THE COLD WATER SYSTEM SHALL BE TESTED AT A PRESSURE OF 500KPA FOR 30 MINUTES AS THE WORKS PROCEEDS AND SHALL BE ABSOLUTELY FREE OF LEAKS BEFORE BEING FINALLY BUILT IN OR CONCEALED.
- ALL NEW WATER METER ASSEMBLIES, DOMESTIC OR HOSE REEL SUPPLY, JOB UPGRADE OR EXISTING WATER METER ASSEMBLIES IF APPLICABLE SHALL BE PROVIDED WITH AUTHORITY APPROVED BACKFLOW PREVENTION DEVICES. THE CONTRACTOR SHALL DETERMINE THE LEVEL OF HAZARD TO ALL REQUIREMENTS OF THE AUTHORITY AND AS 3500.
- WATER SUPPLY LINE TO GARDEN HOSE COCKS TO HAVE DOUBLE CHECK VALVES INSTALLED TO ALL AUTHORITY REQUIREMENT. ALL GARDEN HOSE COCKS TO BE PROVIDED WITH APPROVED VACUUM BREAKERS.
- ALLOW PROVISION FOR EXPANSION LOOP OR OFFSET ON ALL RUNS OF HOT WATER PIPEWORK EXCEEDING 10m RADIUS OF EXPANSION LOOP OR OFFSET TO BE MIN 50mm.

SEWER & SANITARY NOTES

- THE CONTRACTOR SHALL SUPPLY, INSTALL AND TEST THE SYSTEM TO THE PROPOSED BUILDING IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND AUTHORITIES REQUIREMENTS:
AS 3500 - NATIONAL PIPING AND DRAINAGE CODE
LOCAL WATER AUTHORITY
NATIONAL CONSTRUCTION CODE
CLIENT REQUIREMENTS
- APPLY TO WATER AUTHORITY FOR ALL NECESSARY PERMITS / AGREEMENTS, PAY ALL FEES & CHARGES.
- USE FIRE STOP COLLARS WHERE PIPES PASS THROUGH FIRE RATED PENETRATIONS. ALL EXPOSED WASTE PIPES TO BE TO 90 BRASS.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE CORRECT LOCATIONS OF FIXTURES AND OTHER DEVICES REQUIRED TO BE CONNECTED.
- CONCEAL ALL WASTE AND VENT PIPES WITHIN DUCTS, WALL CAVITIES OR CEILING SPACES WHEREVER POSSIBLE. (NOTE: PIPEWORK SHOWN ON DRAWINGS OUTSIDE WALL IS FOR CLARITY ONLY, UNLESS NOTED OTHERWISE)
- PROVIDE FIX AND CONNECT PIPING FIXTURES IN POSITIONS ON ARCHITECTURAL DRAWINGS SHOWN INCLUDING NECESSARY BRACKETS, FINISH BOLTS, SCREWS AND CISTERNS.
- BEFORE COMMENCING DRAINAGE WORK, OBTAIN BY SITE MEASUREMENT THE INVERT LEVELS OF ALL DRAINS TO WHICH CONNECTION IS TO BE MADE. IF LEVELS DIFFER FROM LEVEL SHOWN ON THE DRAWINGS ADVISE THE SUPERINTENDENT BEFORE PROCEEDING WITH DRAIN LAYING. INVERT LEVELS SHOWN ON DRAWINGS ARE TO BE USED AS A GUIDE ONLY.
- ALL SEALING AND FLASHING BY PIPING CONTRACTOR. ALL EXCAVATING, TRENCHING AND BACKFILLING AND REINSTATING SURFACES BY PIPING CONTRACTOR UNLESS NOTED OTHERWISE.
- VENTS INSIDE THE BUILDING SHALL BE EXTENDED TO OPEN AIR IN DRY PIPEWORK SHALL BE FITTED WITH APPROVED WEATHER FLASHINGS WHERE REQUIRED AND APPROVED COCKS AT TERMINATING POINTS.
- ALL FLOOR WASTE DRAININGS SHALL BE BRASS CHROME PLATED.
- ALL INSPECTION OPENING COVERS LEFT AT SURFACE LEVELS SHALL BE FINISHED FLUSH WITH FLOOR SURFACE AND BE CONSTRUCTED OF SCHEDULE 70/90 BRASS.
- ALL BENDS ON SEWER TO HAVE INSPECTION OPENINGS TO SURFACE AT INTERVALS NOT EXCEEDING 30m.
- ALL SEWER DRAINS AND SANITARY PIPING SHALL BE LIND AT MINIMUM GRADES AS PER AS 3500 UNLESS NOTED OTHERWISE.
- ALL SEWER & STORMWATER PIPES CAST IN SLAB TO BE WRAPPED IN STRYOLAG.
- CLOSED CELL POLYETHYLENE LAGGING SHALL BE USED AROUND ALL PIPE PENETRATIONS THROUGH FOOTINGS.
- PROVIDE FLEXIBLE JOINTS (FJ) TO VERTICAL PRE DROPPERS AS PER MANUFACTURERS DETAILS.
- SEWER PIPES Laid WITHIN P-TYPE & H-TYPE SOALS SHALL COMPLY WITH AS 3070-2011 EXPANSION JOINT & SWIVEL JOINT TO BE FITTED TO SEWER EVERY 6M & AT INTERFACE WITH BETWEEN GROUND STRUCTURAL SLABS AND PAVEMENT SLAB DRAINS ATTACHED TO OR BREAKING FROM UNDERNEATH THE BUILDING SHALL INCORPORATE FLEXIBLE JOINTS BRIDGED AT OUTSIDE THE FOOTING AND CORNERING OF BUILDING. BUILDING PENETRATIONS SHALL BE A TOTAL RANGE OF DIFFERENTIAL MOVEMENT IN ANY DIRECTION. SEWER UNDER BUILDING TO BE CLIPPED TO SLAB WITH STAINLESS STEEL CLIPS @ 15m INTERVALS.

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AC	ACCESS CHAMBER
BD	BEND
BPD	BACKFLOW PREVENTION DEVICE
BR'S	BRANCHES
BT	BOUNDARY TRAP
C/W	COMPLETE WITH
C/S	CEILING SPACE
CS	CLEANER'S SINK
C	CAST IRON
CL	COVER LEVEL
CU	COPPER
CV	CHECK/NON-RETURN VALVE
CM	CLOTHES WASHING MACHINE
D/C	DUCTILE CEMENT LINED
D/M	DISH WASHING MACHINE
EX	EXISTING
F/A	FROM ABOVE
F/B	FROM BELOW
FH	FIRE HYDRANT
FHR	FIRE HOSE REEL
FS	FIRE SERVICE
FNG	FLOOR WASTE GULLY
G	GAS
GW	GATE VALVE
GV	GRASSY WASTE
G/W	GLASS WASHING MACHINE
HC	HOSE COCK
H/L	HIGH LEVEL
HW	HOT WATER
HWF	HOT WATER FLOW
HWR	HOT WATER RETURN
HWD	HOT WATER UNIT
JU	JUMP UP
IC	INSPECTION CHAMBER
IL	INVERT LEVEL
ID	INSPECTION OPENING
IV	ISOLATION VALVE
L/L	LOW LEVEL
N/W	NON PORTABLE WATER
O/F	OVERFLOW
P80	PLANTER BOX OUTLET
P/V	PRESSURE LIMITING VALVE
PP	POLYPROPYLENE
PVC	POLYVINYL CHLORIDE
R/W	RAIN WATER OUTLET
S	SINK
SL	SURFACE LEVEL
SP	SILT PIT
SM	SEWER RISING MAIN
ST	STOP TAP
SV	STACK VENT
SW	STORMWATER
SPHW	SOLAR PRE-HEATED WATER
TD	RELIEF VENT
T/A	TUNDISH
T/B	TO BELOW
T/W	TEND WATER
U/G	UNDER GROUND
U/V	UNDER VENT
U/S	UNLESS NOTED OTHERWISE
V	VENT
V/W	VERTICAL WASTE
W	WASTE

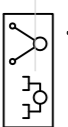
LEGEND

GREASY DRAIN WATER	— G —
SEWER DRAIN WASTE PIPE	— X — X — X — X —
VENT	— S —
COLD WATER	— — — — —
HOT WATER	— — — — —
HEAT TRACE	— — — — —
SOLAR PRE-HEATED WATER	— — — — —
NON PORTABLE WATER	— — — — —
COPPER	— — — — —
GAS SERVICE	— — — — —
SEWER RISING MAIN	— — — — —
GULLY LINE	— — — — —
STORMWATER	— — — — —
HYDRANT/FIRE SERVICE	— — — — —
AUTHORITY WATER	— — — — —
AUTHORITY GAS	— — — — —
AUTHORITY RECEIVED WATER	— — — — —
EXISTING WATER	— — — — —
EXISTING HOT WATER	— — — — —
EXISTING GAS	— — — — —
EXISTING NPW	— — — — —
EXISTING SEWER	— — — — —
EXISTING STORMWATER	— — — — —
EXISTING FIRE SERVICE	— — — — —
MANHOLE	— — — — —
BOUNDARY TRAP	— — — — —
REFILL VALVE	— — — — —
ALTERNING PIPE	— — — — —
FLOOR WASTE GULLY	— — — — —
BUCKET TRAP	— — — — —
RAIN WATER OUTLET	— — — — —
PLANTER BOX OUTLET	— — — — —
SYNCHRONIC OUTLET	— — — — —
TUNDISH	— — — — —
WALL MOUNTED TUNDISH	— — — — —
BREAKING PIECE	— — — — —
SOLEND VALVE	— — — — —
HOSE COCK	— — — — —
RELIEF VENT	— — — — —
REDUCED PRESSURE ZONE DEVICE	— — — — —
SLEUE VALVE	— — — — —
PRESSURE LIMITING VALVE	— — — — —
TEMPERING VALVE	— — — — —
THERMOSTATIC MIXING VALVE	— — — — —
WATER METER	— — — — —
CHECK METER	— — — — —
GAS METER	— — — — —
ACCESS PANEL	— — — — —
HOT WATER UNIT	— — — — —
PUMP	— — — — —
FIRE HYDRANT	— — — — —
FIRE HOSE REEL	— — — — —
CHECK VALVE	— — — — —
DETECTOR CHECK VALVE	— — — — —
MADE/LOW WATER	— — — — —
DRY THERM FIRE EXTINGUISHER	— — — — —
PRESSURE GAUGE	— — — — —
BOOSTER CUPBOARD	— — — — —

MATERIAL SCHEDULE

SERVICE	LOCATION	MATERIAL
SEWER DRAINAGE	ABOVE & BELOW GROUND	PVC - DWV GRADE
VENT PIPES	ABOVE & BELOW GROUND	PVC - DWV GRADE
STORMWATER DRAINAGE	ABOVE & BELOW GROUND	PVC - DWV GRADE
TRADE WASTE DRAINAGE	ABOVE & BELOW GROUND	HDPE WITH FUSION COUPLINGS
TRASH WASTE VENTS	ABOVE & BELOW GROUND	HDPE OR PVC - DWV GRADE
RISING MAINS	ABOVE & BELOW GROUND	PVC - PRESSURE PN 12
COLD WATER SERVICE	ABOVE & BELOW GROUND	COPPER TUBE TYPE B TO AS 1432-1990
HOT WATER SERVICE	ABOVE & BELOW GROUND	COPPER TUBE TYPE B TO AS 1432-1990
HOT WATER LAGGING	ABOVE GROUND	"FOL-FLEX" 25mm
HOT & COLD WATER ROUGH-INS	ABOVE GROUND	GROSS-LINKED POLYETHYLENE
HOT WATER SERVICE	BELOW GROUND	POLYPROPYLENE PIPE
NON PORTABLE WATER	BELOW GROUND	CROSS-LINKED POLYETHYLENE
GAS SERVICE	ABOVE & BELOW GROUND	COPPER TUBE TYPE B TO AS 1432-1990
ACOUSTIC LAGGING	ABOVE GROUND SEWER & STORMWATER DRAINAGE	SOUNDADG 4525C BY P/PROTEK
FIRE HYDRANT SERVICE	BELOW GROUND	COPPER TUBE TYPE B TO AS 1432
FIRE HOSE REEL SERVICE	ABOVE GROUND	BLUE BRUTE CLASS 16 TO AS 2977
	BELOW GROUND	HOT DIPPED GALVANISED STEEL
	ABOVE GROUND	POLYETHYLENE CLASS PN 16
	ABOVE GROUND	HOT DIPPED GALVANISED STEEL

NOT FOR CONSTRUCTION



REV NO.	AMENDMENT	DATE	REV NO.	AMENDMENT	DATE
A	REVISED TENDER ISSUE	18.10.18			
0	TENDER ISSUE	12.10.18			
P1	PRELIMINARY ISSUE	22.08.18			

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PROJECT:	SHIRE OF DUNDAS WOODLANDS CULTURAL COMMUNITY AND VISITORS CENTRE PROJECT
FROM:	80 PRINSEP STREET, NORSEMAN WA 6443
	CARTMAN WA PTY, LTD

WORK STAGE:	TENDER
DATE:	AUGUST 2018
DESIGNED/DRAWN:	JLRBT
SCALE:	N.T.S @ A1

TITLE:	HYDRAULICS SERVICES SPECIFICATION & LEGEND
PROJECT NO.:	5460
DRAWING NO.:	H01
NO. OF SHEETS	1 of 4
REVISION:	A