

SITE PLAN 1:1000

SERVICES

SD	SANITARY DRAINAGE
SW	STORMWATER
—	VENT PIPE
—	GAS
—	COLD WATER
—	HOT WATER

SYMBOLS

ST 100	SERVICE TYPE
—	SERVICE SIZE
—	DIRECTION OF FLOW
D1 HOT	DETAIL NUMBER
SCALE 1:100	DRAWING NUMBER FOR LOCATION OF DETAIL
●	PENETRATING UPWARD PIPE
○	PIPE NOT PENETRATING SLAB
●	OFFSET PENETRATING SLAB
—	SERVICE CONNECTION
→	PIPEWORK CONTINUES TO FIXTURES
△	CONTINUATION

⊘	STOP VALVE
⊗	VALVE IN PATHBOX
⌋	AIR ADMITTANCE VALVE
⊕	TMV THERMOSTATIC MIXING VALVE
⊗	GAS BALL VALVE
⊗	RPZD REDUCED PRESSURE ZONE DEVICE
⌋	HOSE TAP
⊗	OVERFLOW GULLY
⊗	TRAP PRIMING DEVICE
⊗	CO CLEAR OUT

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	KIP	KERB INLET PIT
B	BASIN / VANITY BASIN / HANDBASIN	L	LITRES
CO	CLEAROUT	MJ/h	MEGA JOULES PER HOUR
CS	CLEANERS SINK	m	METRES
CW	COLD WATER	mm	MILLIMETRES
DWG NO.	DRAWING NUMBER	OFG	OVERFLOW GULLY
FL	FLOOR LEVEL	RL	REDUCED LEVEL
FW	FLOOR WASTE	RPZD	REDUCED PRESSURE ZONE DEVICE
GAS	GAS	S	SEWER
GL	GROUND LEVEL	SD	SEWER DRAINAGE
GM	GAS METER	SHR	SHOWER
GTD	GRATED TRENCH DRAIN	SK	SINK
GVP	GREASE VENT PIPE	SW	STORMWATER
HL	HIGH LEVEL	T	TUB
HT	HOSE TAP	TD	TUNDISH
HW	HOT WATER	TMV	THERMOSTATIC MIXING VALVE
HWR	HOT WATER RETURN	Ur	URINAL
HWU	HOT WATER UNIT	Vp	VENT PIPE
IL	INVERT LEVEL	WC	WATER CLOSET
IO	INSPECTION OPENING	WW	WARM WATER

**DESIGN & CONSTRUCT NOTES:**

- THIS PROJECT HAS BEEN LET ON A DESIGN & CONSTRUCT BASIS.
- HYDRAULIC TENDER DOCUMENTATION IS INDICATIVE ONLY & REQUIRES FURTHER DESIGN DEVELOPMENT
- THE TENDERERS PRICE IS TO INCLUDE AN ALLOWANCE TO EXTEND ALL HYDRAULIC SERVICES TO FIXTURES & PLUMBING APPARATUS REQUIRING CONNECTION EVEN IF NOT INDICATED IN THE HYDRAULIC TENDER PACKAGE IN ORDER TO FULLY COMPLETE HYDRAULIC INSTALLATION. THE HYDRAULIC SERVICES REQUIRING EXTENSION INCLUDES BUT IS NOT LIMITED TO ALL:
 

a. WATER CLOSETS	j. METERS & AUTHORITIES EQUIPMENT
b. LAUNDRY TUBS	k. HOT WATER PLANT
c. WASHING MACHINES	l. MECHANICAL PLANT
d. BASINS	m. STORMWATER DRAINAGE
e. SINKS	n. SEWER DRAINAGE
f. SHOWERS / BATHS	o. GAS SERVICES
g. THERMOSTATIC MIXING VALVES	p. WATER SERVICES
h. GAS BAYONETS	
i. GAS COOKTOPS & STOVES	
- IT IS THE RESPONSIBILITY OF THE WINNING TENDERER TO:
  - DEVELOP THE TENDER DOCUMENTATION TO A CONDITION THAT IS SUITABLE FOR CONSTRUCTION & MEETS ALL RELEVANT STANDARDS & STATUTORY REQUIREMENTS NOMINATED BELOW.
  - MEET THE MINIMUM REQUIREMENTS FOR THE PROJECT WHICH ARE STIPULATED IN THE HYDRAULIC SERVICES SPECIFICATION
  - LIAISE WITH ALL RELEVANT CONTRACTORS AS NECESSARY TO ENSURE COORDINATION OF SERVICES PRIOR TO THE INSTALLATION OF THE HYDRAULIC WORKS
- THE RELEVANT STANDARDS & AUTHORITY'S REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:
  - DA CONSENT CONDITIONS
  - NATIONAL CONSTRUCTION CODE
  - SAA NATIONAL PLUMBING & DRAINAGE CODE AS 3500
  - PLUMBING CODE OF AUSTRALIA
  - WATER / SEWER / GAS AUTHORITY REQUIREMENTS
  - WHS REQUIREMENTS
  - ALL HEALTH AUTHORITY REQUIREMENTS
  - ALL LOCAL COUNCIL REGULATIONS
  - MANUFACTURER'S REQUIREMENTS

NOTE: THIS DRAWING IS DIAGRAMMATIC ONLY AND HAS BEEN PREPARED FOR THE PURPOSE OF INDICATING THE DESIGN INTENT AND SCOPE OF WORKS OF THE HYDRAULIC AND FIRE PROTECTION SERVICES. INSTALLATION AND SHOULD NOT BE INTERPRETED AS BEING DEFINITIVE. IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR SUBCONTRACTOR TO INVESTIGATE AND COORDINATE BEFORE AND DURING THE CONSTRUCTION PHASE ALL EXISTING SERVICES AND STRUCTURE WHICH WILL AFFECT THE INSTALLATION OF THESE SERVICES. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HYDRAULIC AND FIRE SERVICES SPECIFICATION. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT CODES AND STANDARDS. POSITION AND LEVELS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE INDICATIVE ONLY AND ARE TO BE CHECKED PRIOR TO COMMENCING ANY WORK. DO NOT SCALE FROM THIS DRAWING. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSION SETOUT. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. ALL RIGHTS RESERVED. THIS WORK IS COPYRIGHTED AND CANNOT BE REPRODUCED OR COPIED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF AJ WHIPPS CONSULTING GROUP. ANY LICENSE, EXPRESSED OR IMPLIED, TO USE THIS DOCUMENT FOR ANY PURPOSE WHATSOEVER IS RESTRICTED TO THE TERMS OF AGREEMENT BETWEEN AJ WHIPPS CONSULTING GROUP & THE INSTRUCTING PARTY.

No.	Date	Details
A	16.12.15	60% TENDER ISSUE

THIS DRAWING HAS BEEN PREPARED IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:

Discipline	Dwg. No.	Date	Revisions
ARCHITECTURAL			
STRUCTURAL			
MECHANICAL			
ELECTRICAL			
OTHER			

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Where ingenuity flows

Project

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Drawing

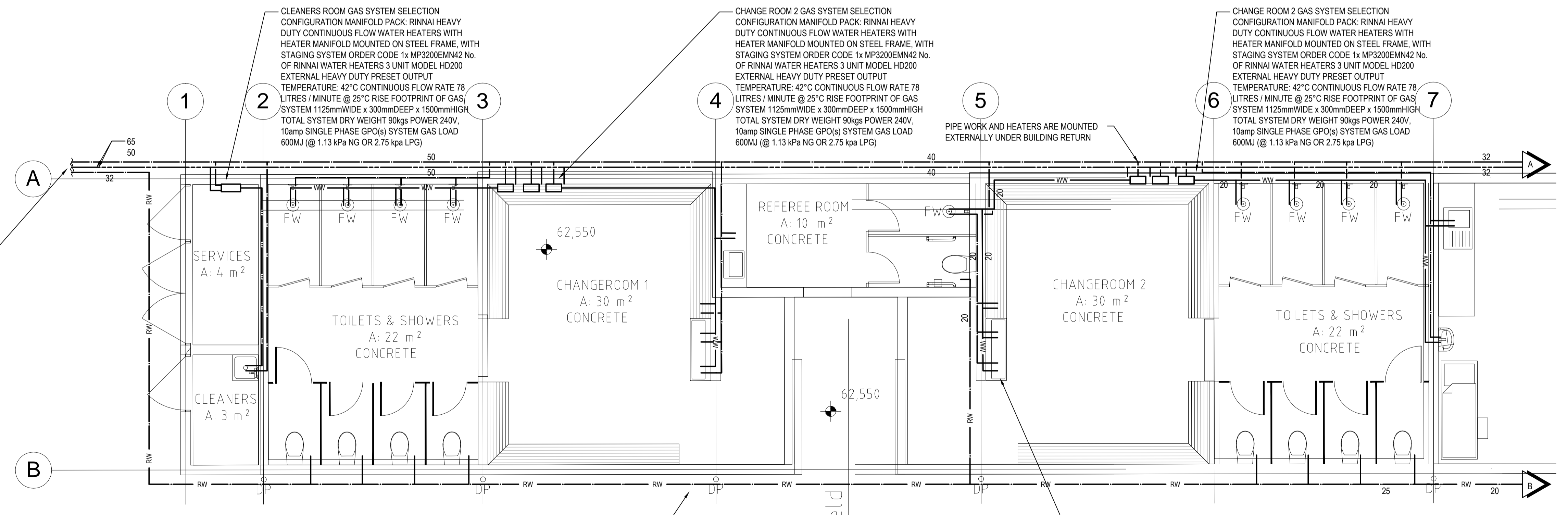
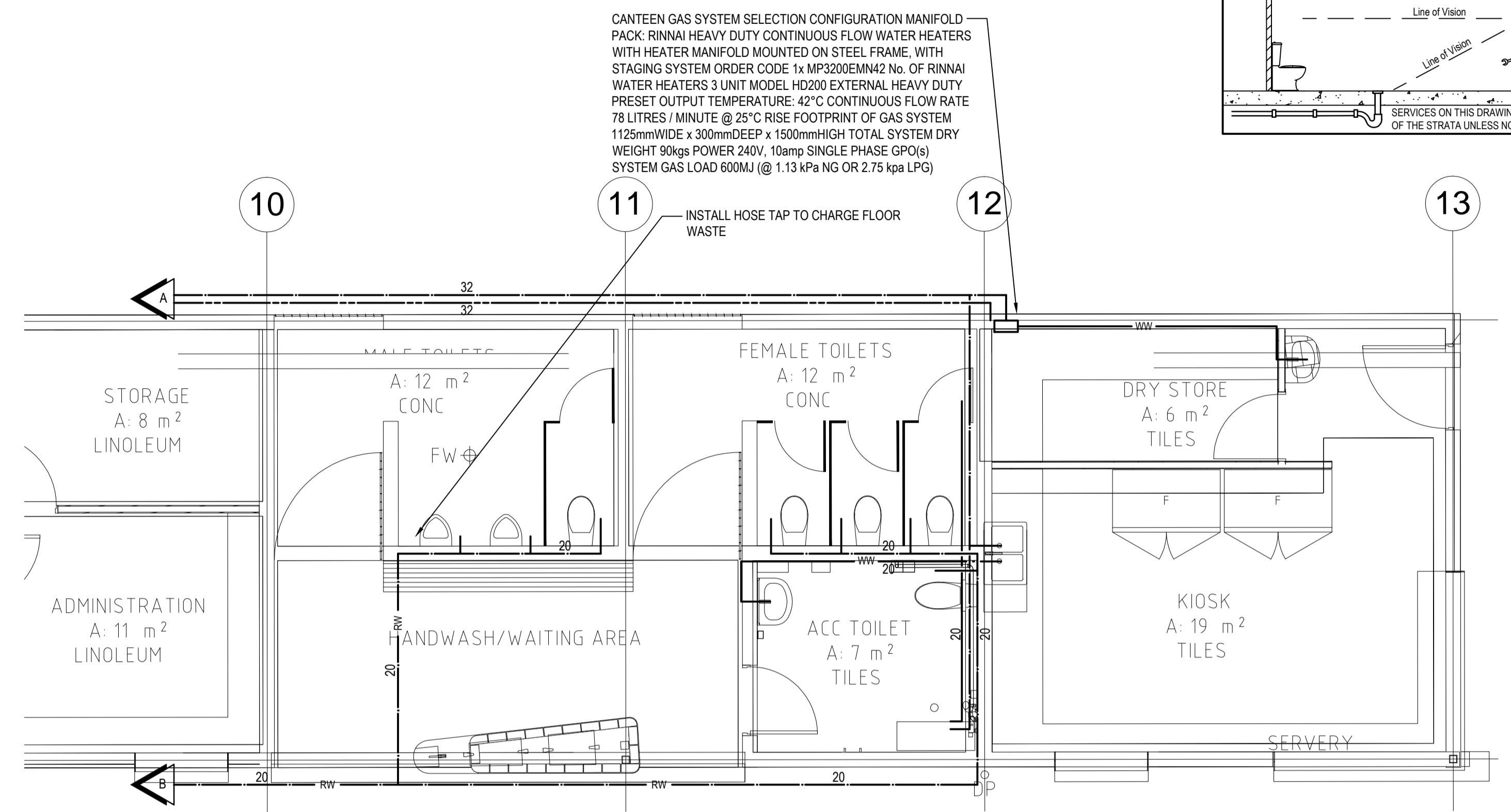
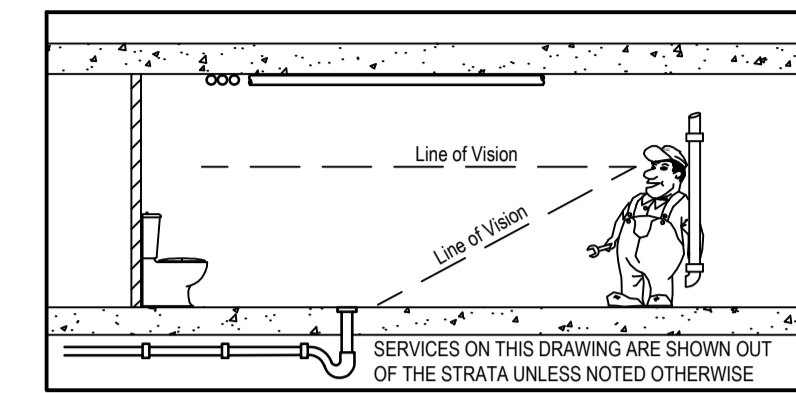
**HYDRAULIC SERVICES SITE PLAN**

Status

**TENDER ISSUE: NOT FOR CONSTRUCTION**

Project No.	2014-0613	Drawing No.	H01 / A
Drawn:	KJ	Date:	17.11.15
Design:	BD	Scale:	1:100
Verified:		No in set:	--

NRL PLAYING FIELD AND AMENITIES 2014-0613 - H01



ALLOW TO CONTINUE POTABLE WATER, RECYCLED WATER AND GAS SERVICES AND CONNECT TO AUTHORITIES SERVICES CLOSEST TO WESTERN BOUNDARY.  
ALLOW FOR ALL FEES, CHARGES, EXCAVATION AND RECTIFICATION WORKS TO COMPLETE THE WORKS.  
ALLOW TO PROVIDE A LOCKABLE VANDAL PROOF GALVANISED MILD STEEL ENCLOSURE FOR EACH RESPECTIVE AUTHORITY'S METER.

**PRESSURE SERVICES**  
SCALE 1:50

No.	Date	Details
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**Drawing**  
HYDRAULIC SERVICES  
**PRESSURE SERVICES PLAN**

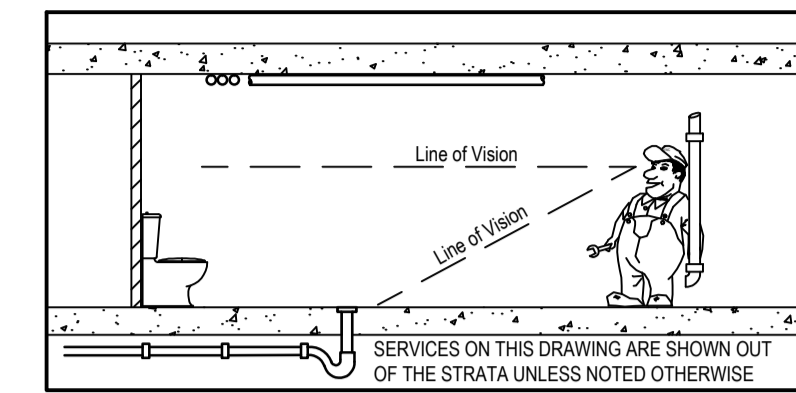
**Status**  
TENDER ISSUE: NOT FOR CONSTRUCTION

Project No: 2014-0613  
Drawing No: H02 / A

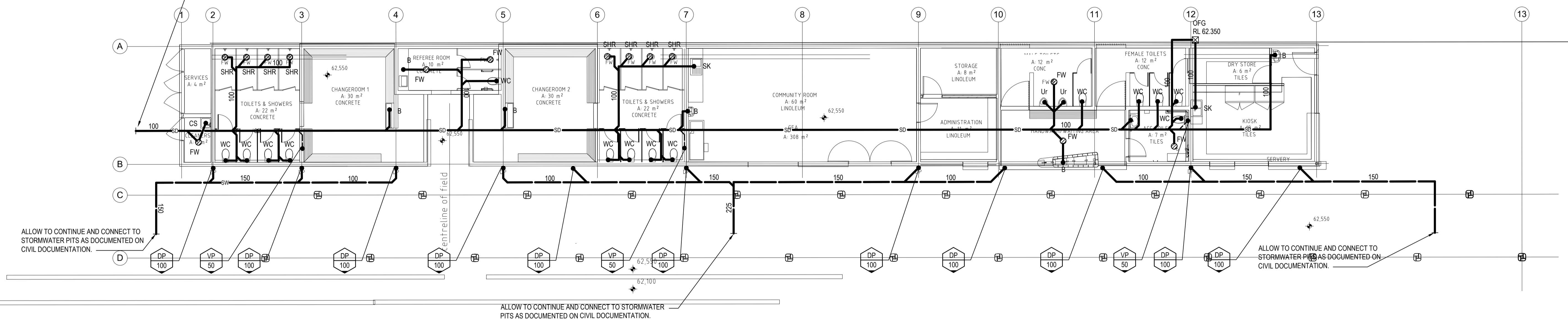
Drawn: KJ  
Design: BD  
Verified: No in set

Date: 17.11.15  
Scale: 1:100  
No in set: -





CONTINUE SEWER AND MAKE CONNECTION TO AUTHORITIES MAIN.  
 ALLOW TO MEET ALL AUTHORITIES REQUIREMENTS INCLUDING BUT NOT LIMITED TO BOUNDARY TRAP, IMPF AND SEWER SIDE LINE.  
 ALLOW FOR ALL CHARGES NECESSARY TO COMPLETE THE SEWER CONNECTION INCLUDING BUT NOT LIMITED TO EXCAVATION, RECTIFICATION, AUTHORITIES SEWER DESIGN AND CONSTRUCTION AND TRAFFIC CONTROL.



**DRAINAGE SERVICES**  
 SCALE 1:100

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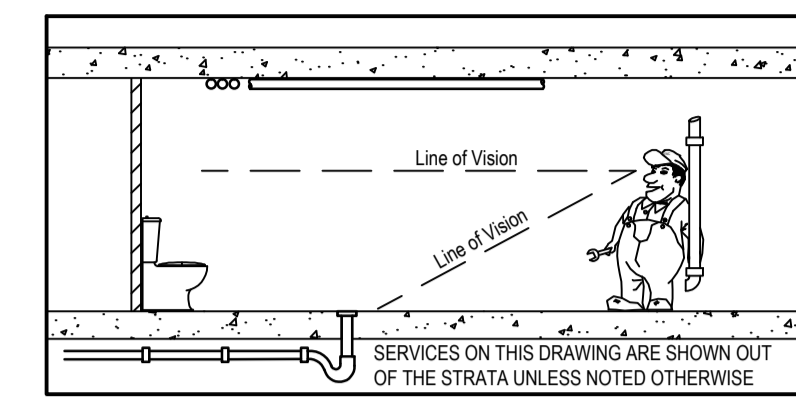
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**Drawing**  
 HYDRAULIC SERVICES  
 DRAINAGE PLAN

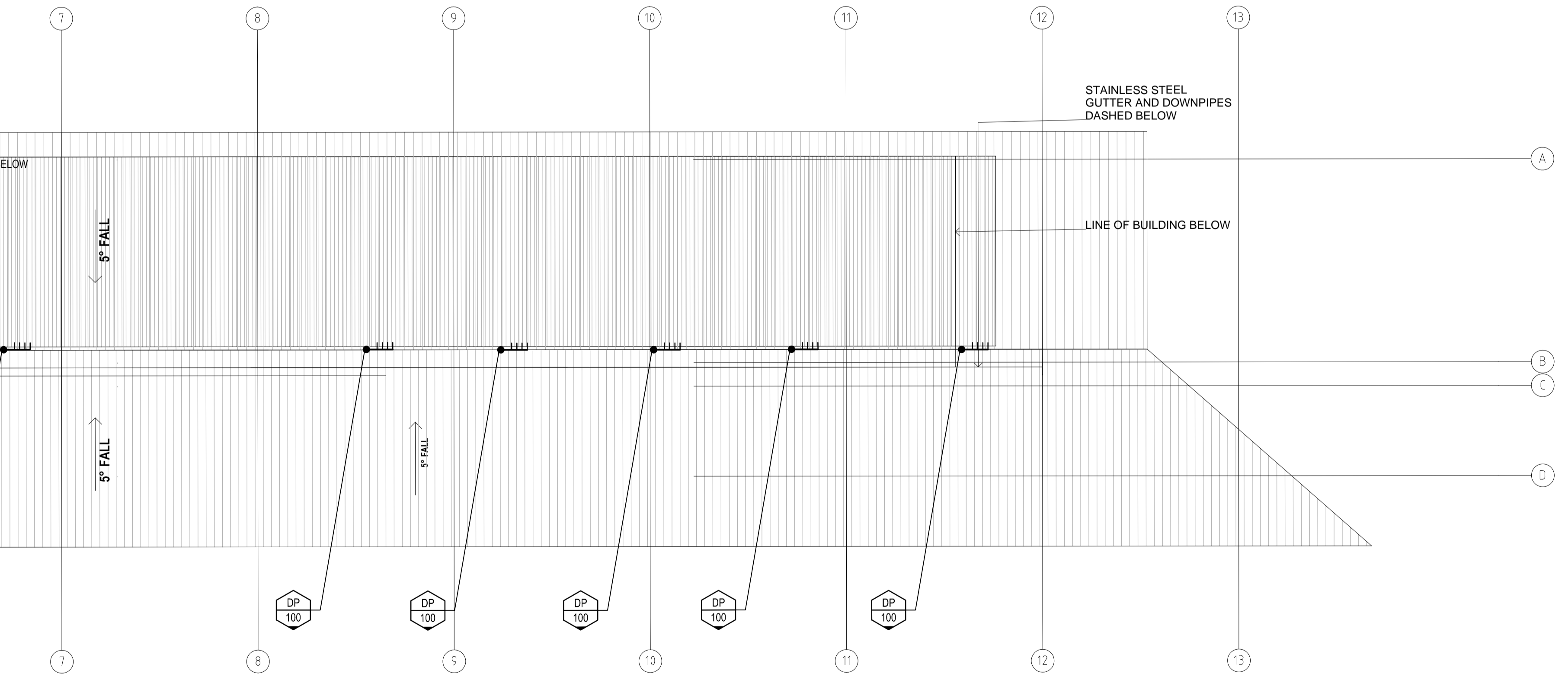
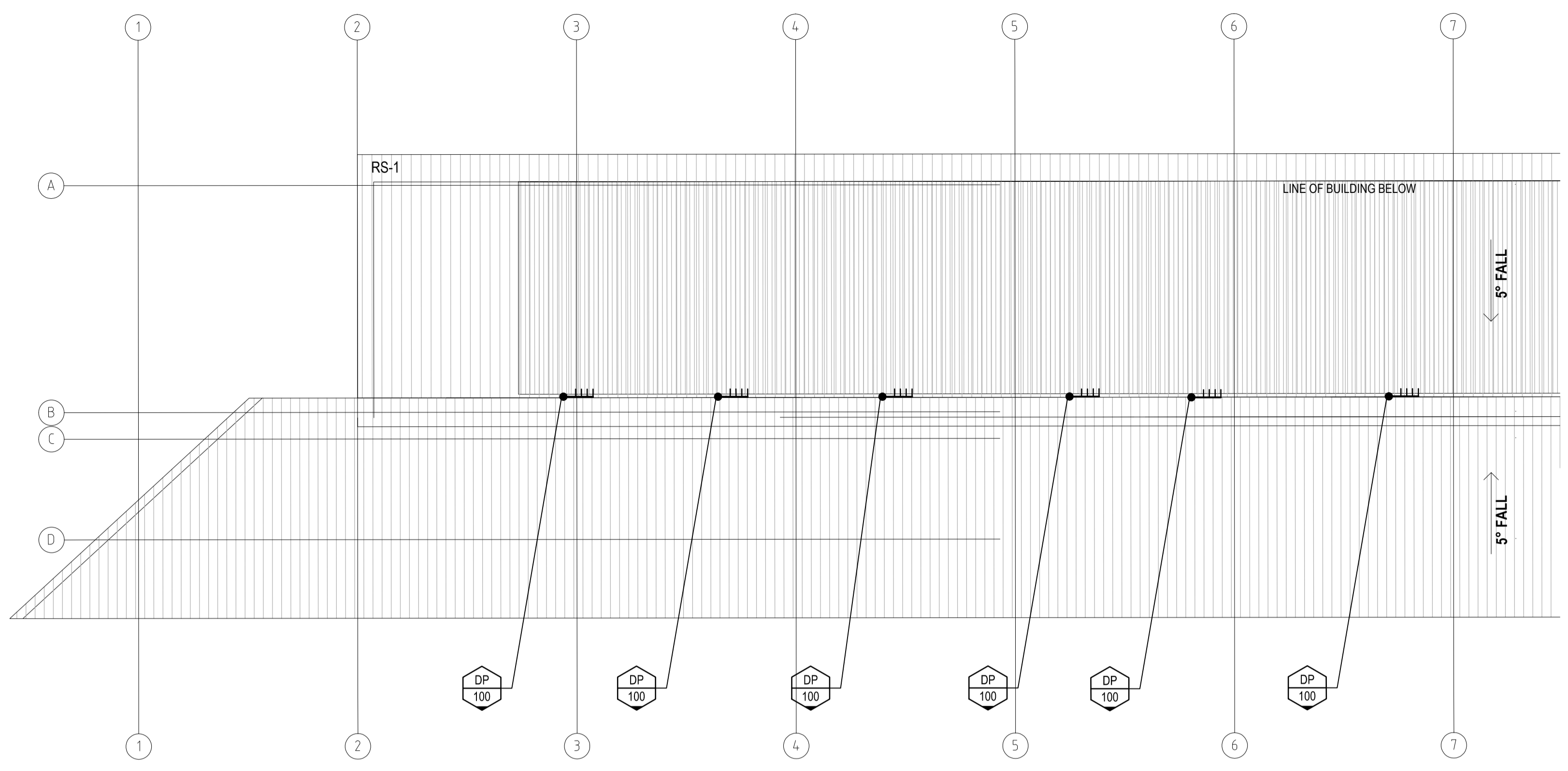
**Status**  
**TENDER ISSUE: NOT FOR CONSTRUCTION**

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NOTE:  
UPPER ROOF TO SPREAD TO  
LOWER ROOF



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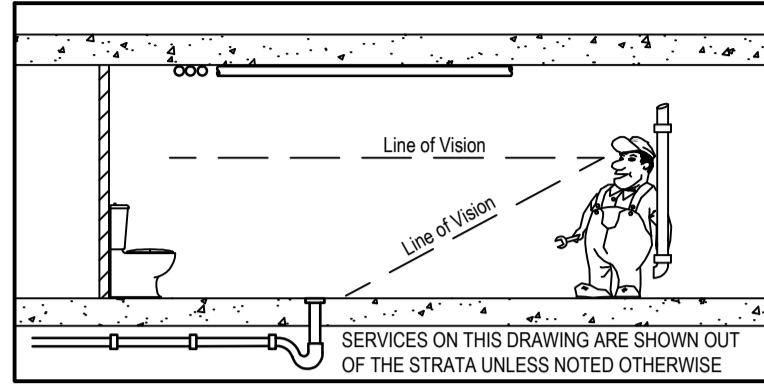
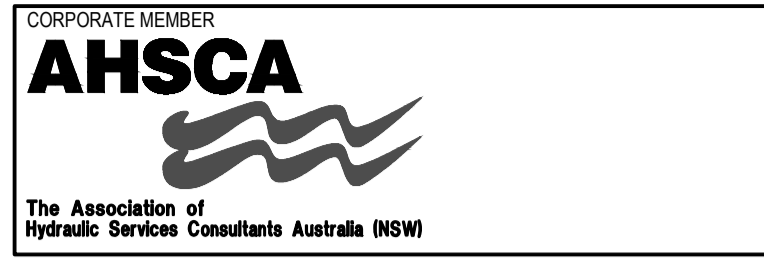


Project  
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Drawing  
**HYDRAULIC SERVICES ROOF PLAN**

Status <b>TENDER ISSUE: NOT FOR CONSTRUCTION</b>	
Project No. <b>2014-0613</b>	Drawing No. <b>H04 / A</b>
Drawn: KJ	Date: 17.11.15
Design: BD	Scale: 1:100
Verified:	No in set: -





**SPECIFICATION NOTES:**

- 1. AUTHORITIES & STANDARDS**  
THE WHOLE OF THE WORK SHALL BE CARRIED OUT BY OR UNDER THE FULL SUPERVISION OF A FULLY LICENSED PLUMBING CONTRACTOR IN ACCORDANCE WITH THE DRAWINGS & SPECIFICATION, REVIEWED BY THE SUPERINTENDENT & APPROVED BY ALL RELEVANT AUTHORITIES.
- 2. APPLICATIONS, FEES & CHARGES**  
THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING APPLICATION & PAYING ALL FEES & CHARGES RENDERED BY THE RESPECTIVE AUTHORITIES IN REFERENCE TO THE PROJECT.
- 3. CERTIFICATION OF WORKS**  
AT THE COMPLETION OF THE WORKS & PRIOR TO THE SUBMISSION FOR FINAL PAYMENT THE PLUMBING CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS, PAY ALL FEES, OBTAIN & ISSUE TO THE SUPERINTENDENT CERTIFICATES INDICATING THAT THE WORKS COMPLY WITH THE CURRENT REGULATIONS & REQUIREMENTS OF THE RELEVANT AUTHORITY.
- 4. SERVICE DRAWINGS**  
THE ACCOMPANYING DRAWINGS INDICATE THE APPROXIMATE POSITIONS & NUMBER OF SANITARY FIXTURES & OTHER ITEMS REQUIRING CONNECTION TO THE HYDRAULIC SERVICES. ALLOW FOR ALL NECESSARY DIVERSIONS & MINOR ADJUSTMENTS OF PIPE WORK & EQUIPMENT AS MAY BE NECESSARY TO CARRY OUT THE WORK AS REQUIRED & AS NECESSARY TO COMPLETE THE WORKS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF EQUIPMENT & COORDINATE WITH OTHER SERVICES WHERE APPLICABLE.
- 5. DIMENSIONS & LEVELS**  
ALL INVERT LEVELS ON THE DRAWINGS ARE RECOMMENDED ONLY & MUST BE CHECKED ON SITE BEFORE EXCAVATION OR INSTALLATION OF PIPEWORK TO ENSURE CONNECTION TO SUPPLY SERVICES & CORRECT COVER & FALL. ADVISE THE SUPERINTENDENT OF ANY APPARENT DISCREPANCIES BEFORE THE COMMENCEMENT OF ANY WORK. CLAIMS FOR REDUNDANT WORK AS A RESULT OF FAILING TO DO SO SHALL NOT BE CONSIDERED VALID.
- 6. PIPING**  
ALL PIPING SHALL CONFORM TO THE AUSTRALIAN STANDARDS & BE IN ACCORDANCE WITH MATERIALS & SIZES SHOWN ON THE DRAWINGS. PIPELINES SHALL BE INSTALLED USING THE LONGEST PRACTICABLE LENGTH OF TUBE/PIPE TO ELIMINATE UNNECESSARY JOINTING. BUILDING UP LENGTHS FROM SHORT OFF-CUTS SHALL NOT BE PERMITTED.
- 7. EXPOSED PIPEWORK TREATMENT**  
EXCEPT AS OTHERWISE SPECIFIED OR DIRECTED ALL INTERNAL EXPOSED PIPING ADJACENT TO PLUMBING FIXTURES, INCLUDING TRAPS & FITTINGS SHALL BE CHROMIUM PLATED FINISHED & WHERE PASSING THROUGH A FINISHED WALL, FLOOR OR CEILING, SHALL BE FITTED WITH APPROVED CHROME PLATES.
- 8. PROTECTION OF FINISHED & POLISHED SURFACES**  
THROUGHOUT THE PROJECT, ALL FINISHED SURFACES SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE. PROVIDE SUITABLE MATERIAL FOR PROTECTION OF FINISHED SURFACES AS REQUIRED & AS MAY BE DIRECTED. REMOVE PROTECTION FROM FINISHED SURFACES ON COMPLETION OF PROJECT & LEAVE SURFACES IN SUCH A MANNER THAT FINAL CLEANING OF DUST ONLY IS REQUIRED. SCRATCHED OR DAMAGED FINISHED SURFACES WILL NOT BE ACCEPTED.
- 9. EXCAVATION IN EXISTING CONCRETE SLABS, PAVEMENTS & ROADWAYS**  
IF REQUIRED BY THE SUPERINTENDENT TRENCHES ACROSS EXISTING ROADS SHALL BE EXCAVATED & THE PIPELINE CONSTRUCTED THEREIN SO THAT HALF THE ROADWAY IS ALWAYS MAINTAINED OPEN TO THE PUBLIC. SLABS SHALL BE SAW CUT, THEN REMOVE THE CONCRETE WITH PNEUMATIC TOOLS.  
THE PLUMBING CONTRACTOR SHALL ALLOW TO UNDERTAKE AN AUTHORITIES SERVICES SEARCH & OBTAIN ALL AVAILABLE INFORMATION ON AUTHORITIES SERVICES WITHIN THE STREET & SITE AREA.
- 10. EXISTING AUTHORITIES' CONNECTIONS TO SITE**  
ALL REDUNDANT EXISTING AUTHORITIES' CONNECTION POINTS NOT BEING REUSED SHALL BE LOCATED & DISCONNECTED AT THEIR POINT OF CONNECTION TO THE AUTHORITIES' SERVICE. DISCONNECTIONS SHALL BE TO THE APPROVAL OF THE RELEVANT AUTHORITY.
- 11. INSPECTION & FLUSHING OUT OF SERVICES - GRAVITY SYSTEMS**  
ON COMPLETION OF THE INSTALLATION OF ALL SERVICES & BEFORE APPLICATION FOR CERTIFICATE OF PRACTICAL COMPLETION, CLEAR OUT ANY DEBRIS FROM LINES & FLUSH ENTIRE SYSTEM TO ENSURE CLEAN BORE.
- 12. INSPECTION & FLUSHING OUT OF SERVICES - PRESSURE SYSTEMS**  
ON COMPLETION OF THE INSTALLATION OF ALL PRESSURE SYSTEMS & BEFORE APPLICATION FOR CERTIFICATE OF PRACTICAL COMPLETION, ALLOW TO FLUSH OUT ALL PIPING INSTALLATIONS TO CLEAN SAND, COPPER FILINGS & FOREIGN MATTER FROM THE SYSTEM.
- 13. EXISTING SERVICES**  
THE CONTRACT DRAWINGS INDICATE SERVICES WITHIN THE SITE & HAVE BEEN PREPARED FROM AVAILABLE RECORDS & SITE INVESTIGATIONS. INVESTIGATE FOR EXACT LOCATION, DEPTH & SIZE OF SERVICES. DEVIATIONS OF SERVICES OTHER THAN THAT INDICATED ARE TO BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION &/OR INSTALLATION RELATING TO SUCH DEVIATION.
- 14. PLUMBING CODE OF AUSTRALIA & AS3500**  
ALL WORK SHALL BE IN ACCORDANCE WITH THE PLUMBING CODE OF AUSTRALIA & THE RELEVANT SECTIONS OF AS3500.
- 15. 'AS BUILT' DRAWINGS / OPERATION & MAINTENANCE MANUALS**  
AS BUILT DOCUMENTATION MUST INCLUDE SUBMISSION REQUIREMENTS AS FOLLOWS:  
- 'AS BUILT' DRAWINGS MUST BE PROGRESSIVELY MARKED & COMPLETED & REVIEWED ON A MONTHLY BASIS DURING THE CONSTRUCTION STAGE. PROGRESS PRINTS MUST BE SUBMITTED AT 50% & 70% COMPLETE STAGES.  
- ONE FINAL DRAFT COPY OF AS BUILTS & MANUALS MUST BE SUBMITTED FOR FINAL REVIEW BY THE SUPERINTENDENT PRIOR TO PRACTICAL COMPLETION.  
- TWO COPIES OF FINAL DOCUMENTATION MUST BE SUBMITTED FOR APPROVAL WITHIN 4 WEEKS OF PRACTICAL COMPLETION.  
- ONE COPY OF MAINTENANCE MANUAL INDICATING ALL ITEMS OF EQUIPMENT & THOSE REQUIRING SERVICE.  
- THE SUM CALCULATED AS SCHEDULED BELOW WILL NOT BE PAID UNTIL FINAL APPROVED 'AS BUILTS' & OPERATING & MAINTENANCE MANUALS DOCUMENTATION IS RECEIVED HYDRAULIC SERVICES 10% OF SUB CONTRACT VALUE
- 16. BUILDING CONTRACTOR**  
THE FOLLOWING WORKS BY OTHERS SHALL BE UNDERTAKEN BY THE BUILDING CONTRACTOR, PRIOR TO WORKS COMMENCING ON-SITE:  
a. EROSION & SEDIMENT CONTROL. IN ACCORDANCE WITH COUNCILS REQUIREMENTS & DEPARTMENT OF CONSERVATION & LAND MANAGEMENT - URBAN EROSION & SEDIMENT CONTROL HANDBOOK. (INCLUDING SEDIMENT CONTROL FENCES, WASH BAYS & STRAW BALE'S)  
b. STAMPING OF PLANS - THE BUILDER SHALL TAKE A QUICK CHECK AGENT.  
- THE ORIGINAL APPROVED DEVELOPMENT APPLICATION ARCHITECTURAL DRAWINGS STAMPED BY COUNCIL FOR STAMPING.  
- A COPY OF THE STRUCTURAL DRAWINGS  
- A COPY OF THE HYDRAULIC DRAWINGS  
c. REPLACEMENT OF ALL CONCRETE SLABS & BITUMEN ROADWAYS REMOVED FOR PLUMBING INSTALLATION.  
d. SUPPLY & INSTALLATION OF THE FOLLOWING SANITARY FIXTURES:  
- SINK TOP & HOLE PENETRATION  
- BASIN TOP & HOLE PENETRATION  
e. ELECTRICAL SUPPLY TO:  
- HOT WATER HEATERS

**MATERIALS**

- 17. SUPPLY OF MATERIALS**  
SUPPLY & FIX ALL MATERIALS REQUIRED TO COMPLETE THE WORKS. ALL MATERIALS SHALL BE FIRST QUALITY & THE BEST OF THEIR RESPECTIVE KINDS. SECOND QUALITY OR INFERIOR MATERIALS SHALL BE REJECTED. ALL COSTS ASSOCIATED WITH REPLACEMENT OF REJECTED MATERIALS SHALL BE BORNE BY THE PLUMBING CONTRACTOR. ALL MATERIALS SHALL CONFORM TO THE LATEST AUSTRALIAN STANDARD SPECIFICATION, CODE OR INTERIM CODE. IF NO AUSTRALIAN STANDARD EXISTS, THEY SHALL CONFORM TO THE LATEST BRITISH STANDARD OR THE AMERICAN SOCIETY FOR TESTING & MATERIALS IN THAT ORDER.
- 18. REJECTION OF UNSATISFACTORY MATERIALS**  
REJECTED MATERIALS SHALL BE MARKED BY THE PLUMBING CONTRACTOR & REMOVED FROM THE SITE.
- 19. APPROVAL**  
ALL ITEMS TO BE APPROVED BY THE LOCAL AUTHORITY & WATER MARKED.
- 20. INSTALLATIONS**  
ALL MATERIALS & FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTION & THE RELEVANT AUSTRALIAN STANDARDS.
- 21. COPPER TUBE & FITTINGS**  
COPPER TUBE SHALL:  
a. CONFORM TO AS1432 - COPPER TUBES FOR PLUMBING, GAS FITTING & DRAINAGE APPLICATIONS.  
b. BE INSTALLED IN ACCORDANCE WITH AS4809  
c. BE TYPE A WHERE LOCATED UNDER BUILDINGS.  
d. BE TYPE B FOR FIRE HOSE REEL.  
e. JOINTING - BE JOINTED WITH SILVER SOLDER CONTAINING NOT LESS THAN:  
f. 5% SILVER SOLDER & 6mm LAPPED JOINTS FOR PRESSURE SUPPLY PIPES.  
FITTINGS FOR COPPER TUBE SHALL:  
a. CONFORM TO AUSTRALIAN STANDARD AS3688 - WATER SUPPLY - COPPER & COPPER ALLOY COMPRESSION & CAPILLARY FITTINGS & THREADED-END CONNECTORS.  
b. BE DEZINCIFIED BRASS OR COPPER SUITABLE FOR JOINTING BY SILVER SOLDER.  
c. MINIMUM WALL THICKNESS SHALL BE NOT LESS THAN THE TUBE THICKNESS IT SERVES.  
d. BE FIRST QUALITY HIGH-PRESSURE FITTINGS FOR RISING MAINS.
- 27. PVC-U PIPES & FITTINGS**  
ALL PVC-U PIPES & FITTINGS FOR SEWER & STORMWATER SHALL BE:  
a. BE SEWER GRADE IN CONFORMITY WITH AS1260-PVC-U PIPES & FITTINGS FOR DRAIN, WASTE & VENT APPLICATIONS.  
b. SOLVENT WELD JOINTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.  
c. INCORPORATE FITTINGS OF SIMILAR MANUFACTURE TO THE PIPE USED.  
d. THE BURNING OUT OF FITTINGS FOR REUSE IS UNACCEPTABLE.  
e. THE HEATING OR ANNEALING OF PVC-U PIPES & FITTINGS IS UNACCEPTABLE.  
f. JOINTING - SOLVENT WELD CEMENT (HIGH BOND SOLVENT CEMENT) AS RECOMMENDED BY MANUFACTURER & APPROVED BY AUTHORITY.  
g. JOINTING - USE FULLY MOULDED FITTINGS ONLY. GLUE ON BOSS OR SADDLE TYPE CLAMP OR STRAPPED ON JOINTS SHALL NOT BE USED.  
h. BE INSTALLED IN ACCORDANCE WITH:  
- AS3500 REQUIREMENTS  
- THE PLUMBING CODE OF AUSTRALIA  
- AS2032 CODE OF PRACTICE FOR INSTALLATION OF UPVC PIPE SYSTEMS

**EXCAVATION & BACKFILL**

- 28. TRENCH EXCAVATION**  
ALL EXCAVATION SHALL BE IN ACCORDANCE WITH WORKCOVER NSW - CODE OF PRACTICE FOR EXCAVATION.  
ALL EXCAVATIONS SHALL BE CARRIED OUT IN A SAFE, SECURE & PRUDENT MANNER THAT WILL PREVENT ANY FORM OF COLLAPSE, SLIP OR FAILURE OF THE SIDES OF THE EXCAVATION. UPON COMMENCEMENT OF EXCAVATIONS A GENERAL EXAMINATION OF THE TRENCHES SHALL BE MADE TO DETERMINE THE PRESENCE OR OTHERWISE OF ANY MATERIAL CONSIDERED BY THE PLUMBING CONTRACTOR TO BE DETRIMENTAL TO THE LIFE & FUTURE CONDITION OF THE PIPELINE TO BE INSTALLED.  
WHEREVER SUCH MATERIAL IS LOCATED, THE PLUMBING CONTRACTOR SHALL ADVISE THE SUPERINTENDENT IMMEDIATELY TOGETHER WITH A RECOMMENDATION & COSTS OF REMEDIAL ACTION TO BE TAKEN. NO WORK IN REGARD TO THIS REMEDIAL PRECAUTION IS TO COMMENCE UNTIL WRITTEN APPROVAL TO PROCEED IS OBTAINED FROM THE SUPERINTENDENT.  
REMOVE ALL EXCESS EXCAVATION MATERIAL FROM SITE. PAY ALL CARTAGE & DISPOSAL FEES WHEREVER APPLICABLE TO PROVIDE A CLEAN NEAT SITE DEVOID OF ALL DEBRIS CREATED BY THIS SECTION OF WORKS.
- 29. EXCEEDING EXCAVATION**  
IF THE PLUMBING CONTRACTOR HAS EXCEEDED THE SECTION AREA OF EXCAVATION, AS SHOWN, IN CONSEQUENCE OF ANY INJUDICIOUS WORKING, SLIPS, FALLS, OR FOR ANY CAUSE OTHER THAN BY DIRECTION OF THE SUPERINTENDENT THEN THE PLUMBING CONTRACTOR SHALL, AT SOLE COST, REMOVE SUCH EXTRA MATERIALS FROM THE SITE, MAKE GOOD & FILL IN THE EXTRA EXCAVATION WITH CONCRETE, SAND OR APPROVED FILLING AS MAY BE DIRECTED. NO EXTRA PAYMENT WILL BE MADE FOR EXCAVATION IN EXCESS OF THAT REQUIRED BY THE DRAWINGS & SPECIFICATION UNLESS DIRECTED IN WRITING BY THE SUPERINTENDENT.
- 30. PRECAUTIONS & SAFEGUARDS**  
CARRY OUT THE WORK IN A CAREFUL, SECURE, SAFE & TIDY MANNER & TAKE ALL PRECAUTIONS AGAINST DAMAGE WHETHER ARISING FROM BAD WORKMANSHIP, BREAKAGE OR MACHINERY OR PLANT, INEFFICIENT TIMBERING, FLOODING OR ANY OTHER CAUSE WHATSOEVER. PROVIDE, ERECT & MAINTAIN WARNING SIGNS, TEMPORARY FENCES, BARRIERS & WARNING LIGHTS ADJACENT TO ANY WORKS SUCH AS TRENCHES & EXCAVATIONS OR STACKS OF MATERIAL WHICH COULD BE CONSIDERED A DANGER TO PERSONS OR TRAFFIC OF ANY KIND.  
THE PLUMBING CONTRACTOR SHALL OBEY ALL DIRECTIONS GIVEN TO HIM WITH REGARD TO THE PROVISIONS OF LIGHTING & BARRIERS, BUT SHALL NOT BE RELIEVED OF THE RESPONSIBILITY TO PROVIDE ADEQUATE LIGHTING & BARRIERS TO PREVENT ANY ACCIDENT OR DAMAGE.
- 31. BEDDING MATERIAL**  
WHERE TRENCH BASE IS OF STABLE SAND MATERIAL PIPE BARRELS SHALL BE DIRECTLY SUPPORTED ON THE UNDISTURBED NATURAL GROUND. IN ALL OTHER CASES, PIPELINES SHALL BE SUPPORTED ON EITHER A GRANULAR BEDDING IN ACCORDANCE WITH AS3500 2 CLAUSE 5.4. WHERE COMPACTION OF BACKFILL OVER THE PIPELINE IS TO BE MADE BY THE USE OF MECHANICAL VIBRATOR, A FURTHER SPARGING TO A LEVEL EQUAL TO 1/3 THE PIPE BARREL SHALL BE MADE USING 6:1 CEMENT MORTAR. THE ADDITIONAL CEMENT MORTAR SHALL BE PLACED AFTER THE INITIAL SETTING OF THE 4:1 SPARGING TAKES PLACE.  
WHERE A MECHANICAL VIBRATOR IS EMPLOYED, THE LINES SHALL BE SUBJECT TO A SECOND TEST UPON COMPLETION OF THE COMPACTION.
- 32. BACKFILLING**  
GENERAL  
UNLESS INSTRUCTED OTHERWISE WHERE A LENGTH OF TRENCH HAS BEEN INSPECTED, THE BEDDING MATERIAL SHALL BE PLACED & COMPACTED. AFTER A LENGTH OF PIPELINE HAS BEEN CONSTRUCTED, TESTED & INSPECTED THE TRENCH WHERE LOCATED UNDER FINISHED SURFACES SUCH AS CONCRETE, BITUMEN OR PAVING SHALL BE BACKFILLED WITH GRANULAR MATERIAL UP TO UNDERSIDE OF THE WORKING SURFACE. GRANULAR MATERIAL SHALL BE IN THE FORM OF SAND, FINE SIZED 'RUN OF RIVER' GRAVEL OR SIMILAR, FREE OF CLAY & ROCK. THOROUGHLY COMPACT THE MATERIAL AROUND & ABOVE PIPES BY FLOODING, HAND TAMPING OR MECHANICALLY RAMMING TO NOT LESS THAN 95% COMPACTION AS SET OUT BELOW. IN OPEN SPACES BACKFILL WITH GRANULAR MATERIAL. 150mm ABOVE PIPE COLLARS & THEN

- BACKFILL WITH SELECTED EXCAVATED MATERIAL.  
SELECTED EXCAVATED MATERIAL SHALL BE FREE FROM ROCKS OR OTHER HARD PARTICLES, WHICH WOULD BE RETAINED ON A SIEVE HAVING 15mm OPENINGS. IT MAY CONTAIN COMPACTABLE CLAY LUMPS UP TO 75mm IN SIZE. THE SPOIL FROM THE EXCAVATION IF IT COMPLIES WITH THE ABOVE, OR CAN BE SIEVED OR BROKEN UP TO COMPLY, WILL PROVIDE A SUITABLE MATERIAL & SHALL BE PLACED IN SUCCESSIVE LAYERS & COMPACTED TO NOT LESS THAN 95% OF THE DENSITY OBTAINABLE FROM THE STANDARD COMPACTION METHOD IN ACCORDANCE WITH AS1289 - METHODS OF TESTING SOIL FOR ENGINEERING PURPOSES, SHALL BE PLACED FOR THE REMAINDER OF THE TRENCH DEPTH UP TO 150mm FROM THE FINISHED SURFACE LEVEL.  
UNLESS OTHERWISE DIRECTED THE REMAINDER OF THE TRENCH FILLING SHALL BE CARRIED OUT USING THE ORIGINAL TOP SOIL (WHERE SUITABLE) OR APPROVED SAND - SANDY / LOAM FILL.  
BACKFILLING SHALL BE COMPLETED AS SOON AS POSSIBLE AFTER LAYING TO AVOID DAMAGE OR FLOATING OF PIPES IF TRENCH IS FLOODED BY WATER.
- 33. TRENCHES EXCAVATED IN ROCK**  
IT SHALL BE DEEMED THAT EXCAVATION IN ROCK HAS BEEN ALLOWED FOR IN THE TENDER.
- HOSE REEL SERVICE**
- 34. GENERALITY**  
SUPPLY & INSTALL A HOSE REEL SERVICE TO THE LOCATIONS SHOWN ON THE DRAWINGS. INCLUDE FOR ALL PIPING, FITTINGS, VALVES, HOSE REEL, TO THE LOCATIONS SHOWN ON THE DRAWINGS & OTHER SUNDRY ITEMS OF EQUIPMENT AS REQUIRED FOR THE INSTALLATION. PIPEWORK SHALL BE CONSTRUCTED OF COPPER TUBE - TYPE B TO AS1432  
NOTE: HOSE REEL SERVICE SHALL CONNECT TO THE COLD WATER SERVICE.  
THE HOSE REEL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS2441 & THE BUILDING CODE OF AUSTRALIA.
- 35. HOSE REELS**  
SUPPLY & INSTALL HOSE REELS OF THE TYPE & PATTERN SPECIFIED PREVIOUSLY UNDER "MATERIALS". LOCATE CENTRE OF HUB AT HEIGHT OF 1500mm ABOVE FLOOR LEVEL & ENSURE THAT THE INSTALLATION UPON COMPLETION PERMITS THE HOSE TO RUN SMOOTHLY OFF THE REEL WHEN PULLED IN ANY DIRECTION.  
SEPARATE OPERATING INSTRUCTIONS SHALL BE PERMANENTLY SECURED IN A CONSPICUOUS UPRIGHT LOCATION.
- 36. VALVES**  
ALL SYSTEM VALVES INCLUDING THE WATER METER, WHICH CAN ISOLATE FLOW IN THE HOSE REEL WATER SUPPLY MAIN, SHALL BE SECURED IN THE OPEN POSITION BY A PADLOCKED METAL STRAP & HAVE ATTACHED AN ENGRAVED NON FERROUS METAL TAG WITH 8mm UPPER CASE WORDING:  
"FIRE SERVICE VALVE CLOSE ONLY TO SERVICE FIRE HOSE REELS"  
THE PADLOCKS SHALL BE A 003-TYPE.

- DRAWINGS - AS BUILTS / WORK AS EXECUTED (WAE)**
- 37. WORKS AS EXECUTED DRAWINGS & MANUALS**  
A SET OF DRAWINGS SHALL BE KEPT ON SITE & PROGRESSIVELY MARKED UP BY THE PLUMBING CONTRACTOR AS THE WORK PROCEEDS TO RECORD THE LOCATIONS, INVERTS & DETAILS OF ALL INSTALLED SERVICES, EQUIPMENT & VALVES.  
BEFORE APPLYING FOR THE CERTIFICATE OF PRACTICAL COMPLETION, A SET OF "WORKS AS EXECUTED" DRAWINGS (COMPRISING ALL FLOOR PLANS, DIAGRAMMATICS & DETAILS) PREPARED BY THE PLUMBING CONTRACTOR TO A MINIMUM SCALE OF 1:100 & RELEVANT BOUND MANUALS INDICATING ALL ITEMS OF SERVICE OR EQUIPMENT SHALL BE SUBMITTED TO THE SUPERINTENDENT FOR REVIEW. STANDARD OF DRAFTING & MINIMUM SCALES SHALL BE EQUAL TO DESIGN DOCUMENTS, ACCURATELY PLOTTED, SHOWING DIMENSIONS OF PIPES, VALVES & SERVICES.  
THE HYDRAULIC SERVICES DRAWINGS ARE AVAILABLE IN AUTOCAD .DWG FORMAT FROM THE HYDRAULIC CONSULTANT.
- 38. STORMWATER DRAINAGE FIXTURES & FITTINGS**  
ALLOW TO SUPPLY & INSTALL THE FOLLOWING ITEMS AS INDICATED ON THE DRAWINGS:  
ITEM  
PITS  
MANUFACTURER: ACO POLYCRETE  
DRAIN PUMP TYPE 66  
HEELGUARD GALVANISED STEEL GRATE
- 39. STANDARDS**  
a. PLUMBING & DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500.  
b. GAS SYSTEM TO BE INSTALLED IN ACCORDANCE WITH AS5601.  
c. FIRE HYDRANT SYSTEM TO BE INSTALLED IN ACCORDANCE WITH AS2419.  
d. FIRE HOSE REEL SYSTEM TO BE INSTALLED IN ACCORDANCE WITH AS2441
- 40. MATERIALS**  
SEWER UPVC TO AS3500.2  
SANITARY DRAINAGE UPVC TO AS3500.2  
STORMWATER:  
Ø225 & UNDER PVC AS SPECIFIED BY ARCHITECT  
HOT / COLD WATER THERMOFLEX 4 ZERO OR EQUAL  
GAS COPPER TYPE B  
ABOVE AS2419.1  
BELOW AS2419.1
- 41. SANITARY FIXTURES & TAPWARE**  
SUPPLY & INSTALL ALL SANITARY FIXTURES & TAPWARE AS NOMINATED IN THE ARCHITECTS DOCUMENTATION  
REFER TO FIXTURE TABLES ADJACENT.

FIXTURE SCHEDULE	
LOCATION	PRODUCT INFORMATION
HOT WATER HEATER CLIPBOARD / SERVICES DUCT	TIMED SHOWERS ARE TO BE OPERATED BY A STAINLESS STEEL TOUCH PLATE CONTROL UNIT AND SOLENOID VALVE AS PER SPECIFICATIONS FROM WATER CONSERVATION SERVICES AUSTRALIA
CHANGE ROOMS AND OFFICIALS SHOWER	TIMED SHOWERS ARE TO BE OPERATED BY A STAINLESS STEEL TOUCH PLATE CONTROL UNIT AND SOLENOID VALVE AS PER SPECIFICATIONS FROM WATER CONSERVATION SERVICES AUSTRALIA
CHANGE ROOMS AND OFFICIALS SHOWERS	RADA VR105 WITH 6L/MIN FLOW REGULATOR PART NO 05877
BASINS IN MALE AND FEMALE TOILETS AND CHANGE ROOMS	PRESTO 605 S PART NO P64614
TEMPERING OF WATER TO CHANGE ROOM SHOWERS (LOCATE IN SERVICES DUCT)	RADA 215DK FOR EXPOSED INSTALLATION PART NO 40661 EK
TEMPERING OF WATER TO OFFICIAL SHOWER (& DISABLED SHOWER (SEPARATE DEPENDING ON LAYOUT?))	RADA 215DK IN RECESSED GALVANISED BOX & STAINLESS STEEL LID WITH COLD WATER FEED PART NO 4661 RB300CF (SOLENOID VALVE COULD BE LOCATED IN BOX)
TEMPERING OF WATER TO KIOSK BASIN	RADA 215DK IN RECESSED GALVANISED BOX & STAINLESS STEEL LID WITH COLD WATER FEED PART NO 40661RB300

TYPICAL BUILDING FIXTURE SCHEDULE			
SPACE	FITTING	DESCRIPTION/CODE	SUPPLIER
SHOWERS	SHOWER	VR 105 CONCEALED MOUNTING VANDAL RESISTANT SHOWER FITTING	H G THORNTHWAITE
ACCESSIBLE WC	WC PAN	A8651-DIS "S" TRAP WALL FACED S/STEEL PAN (DISABLED) REAR FIXED WITH SEAT FIXING HOLES AND SEAT COMPLETE WITH HINGED CLOSED FRONT INTEGRAL CONTOURED SEAT. (BLACK) WC FLUSHING SYSTEM TO BE OPERATED BY A STAINLESS STEEL TOUCH PLATE CONTROL UNIT AND SOLENOID VALVE	RBA GROUP WATER CONSERVATION SERVICES AUSTRALIA
	BASIN	SWB-2 SECURITY WASH BASIN COMPLETE WITH ONE TAPHOLE & BRACKETS & CROME WASTE PIPE EX 302 PILLAR COCK (MM)	STAINLESS METAL CRAFT ENWARE
	SHOWER	ENWARE EX364 SHOWER SET WITH SLIDING HAND HELD SHOWER & 900MM STAINLESS STEEL RAIL AND FIXINGS	ENWARE
FEMALE WC	WC PAN	A8651 "S" TRAP WALL FACED S/STEEL PAN REAR FIXED	RBA GROUP WATER CONSERVATION SERVICES AUSTRALIA
	BASINS	WC FLUSHING SYSTEM TO BE OPERATED BY A STAINLESS STEEL TOUCH PLATE CONTROL UNIT AND SOLENOID VALVE	STAINLESS METAL CRAFT THORNTHWAITE TECHNOLOGIES
MALE WC CHANGE 1	WC PAN	SWB-2 SECURITY WASH BASIN COMPLETE WITH ONE TAPHOLE & BRACKETS & CROME WASTE PIPE PRESTO 605 S PUSH BUTTON BASIN TAP (COLD SECURITY VERSION) MODEL P64614	RBA GROUP WATER CONSERVATION SERVICES AUSTRALIA
	URINALS	WC FLUSHING SYSTEM TO BE OPERATED BY A STAINLESS STEEL TOUCH PLATE CONTROL UNIT AND SOLENOID VALVE	RBA GROUP
	BASINS	SWB-2 SECURITY WASH BASIN COMPLETE WITH ONE TAPHOLE & BRACKETS & CROME WASTE PIPE PRESTO 605 S PUSH BUTTON BASIN TAP (COLD SECURITY VERSION) MODEL P64614	STAINLESS METAL CRAFT THORNTHWAITE TECHNOLOGIES
	WC PAN	A8651 "S" TRAP WALL FACED	RBA GROUP

<p><b>H</b></p> <p>No. 16.12.15</p> <p>60% TENDER ISSUE</p>	<p>NOTE: THIS DRAWING IS DIAGRAMMATIC ONLY AND HAS BEEN PREPARED FOR THE PURPOSE OF INDICATING THE DESIGN INTENT AND SCOPE OF WORKS OF THE HYDRAULIC AND FIRE PROTECTION SERVICES. INSTALLATION AND SHOULD NOT BE INTERPRETED AS BEING DEFINITIVE. IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR SUBCONTRACTOR TO INVESTIGATE AND COORDINATE BEFORE AND DURING THE CONSTRUCTION PHASE ALL EXISTING SERVICES AND STRUCTURE WHICH WILL AFFECT THE INSTALLATION OF THESE SERVICES. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HYDRAULIC AND FIRE SERVICES SPECIFICATION. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT CODES AND STANDARDS. POSITION AND LEVELS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE INDICATIVE ONLY AND ARE TO BE CHECKED PRIOR TO COMMENCING ANY WORK. DO NOT SCALE FROM THIS DRAWING. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSION SET OUT. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. ALL RIGHTS RESERVED. THIS WORK IS COPYRIGHTED AND CANNOT BE REPRODUCED OR COPIED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF AJ WHIPPS CONSULTING GROUP. ANY LICENSE, EXPRESSED OR IMPLIED, TO USE THIS DOCUMENT FOR ANY PURPOSE WHATSOEVER IS RESTRICTED TO THE TERMS OF AGREEMENT BETWEEN AJ WHIPPS CONSULTING GROUP &amp; THE INSTRUCTING PARTY.</p>	<p>THIS DRAWING HAS BEEN PREPARED IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:</p> <table border="1"> <thead> <tr> <th>Discipline</th> <th>Dwg. No.</th> <th>Date</th> <th>Revisions</th> </tr> </thead> <tbody> <tr> <td>ARCHITECTURAL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>STRUCTURAL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MECHANICAL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ELECTRICAL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Discipline	Dwg. No.	Date	Revisions	ARCHITECTURAL				STRUCTURAL				MECHANICAL				ELECTRICAL				OTHER				<p>Architect</p> <p><b>lahznimmo</b> architects</p> <p>Suite 404, Flourmill Studios 3 Gladstone St Newtown NSW 2042 Australia</p> <p>T 02 9550 2000 F 02 9550 5233 www.lahznimmo.com</p>	<p>Client</p> <p>AJ Whipps Consulting Group 2/101 Union St, McMahon's Point NSW 2060 Australia t: 61 2 8923 8444 f: 61 2 8923 8484 sydney@ajwhipps.com.au ajwhipps.com.au</p>	<p>Project</p> <p><b>NRL PLAYING FIELD AND AMENITIES</b> CNR CARINDALE ST &amp; THE PONDS BLVD KELLYVILLE RIDGE NSW 2155</p>	<p>Drawing</p> <p><b>HYDRAULIC SERVICES SPECIFICATION SHEET</b></p>	<p>Status</p> <p><b>TENDER ISSUE: NOT FOR CONSTRUCTION</b></p>
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