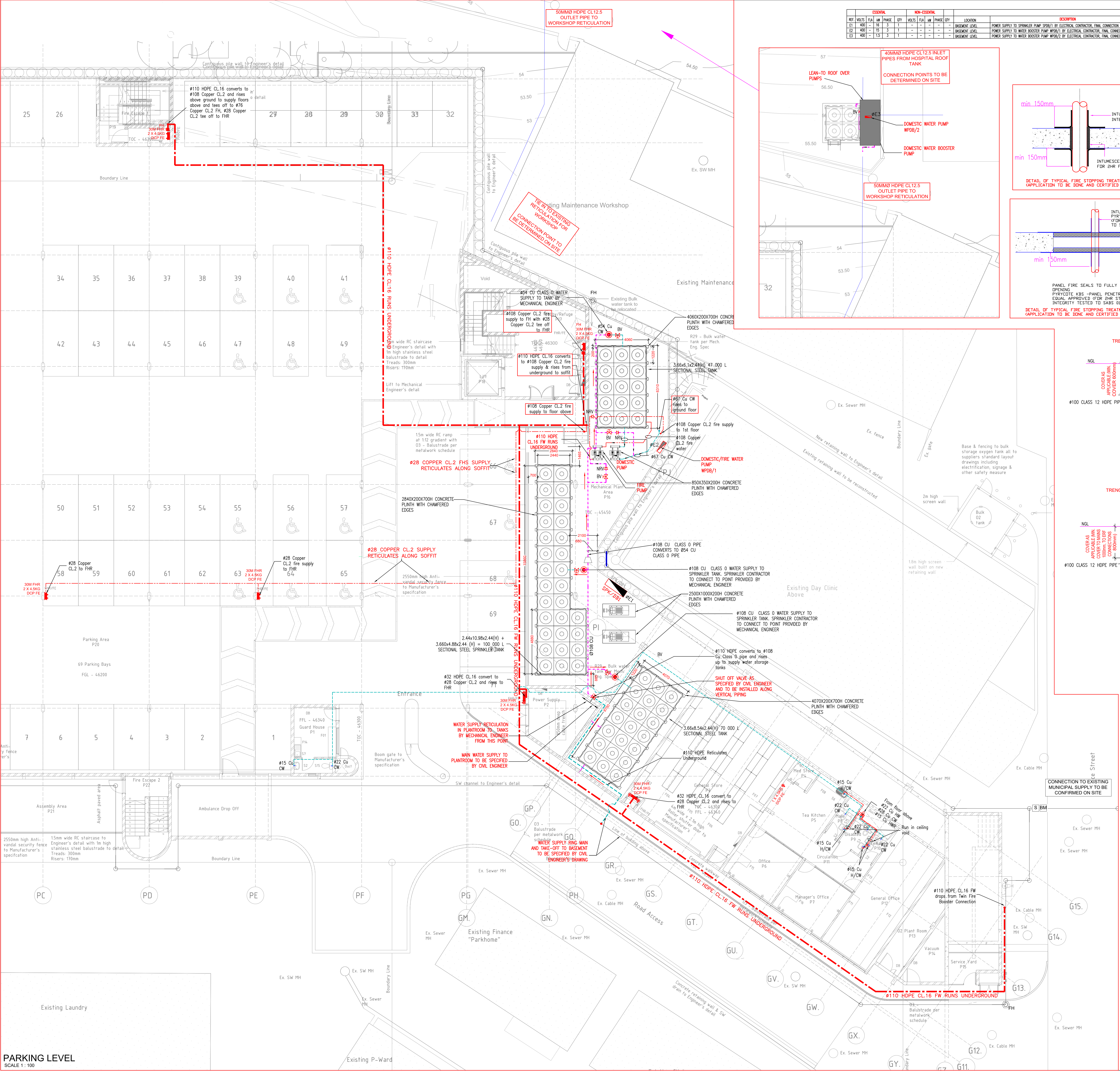


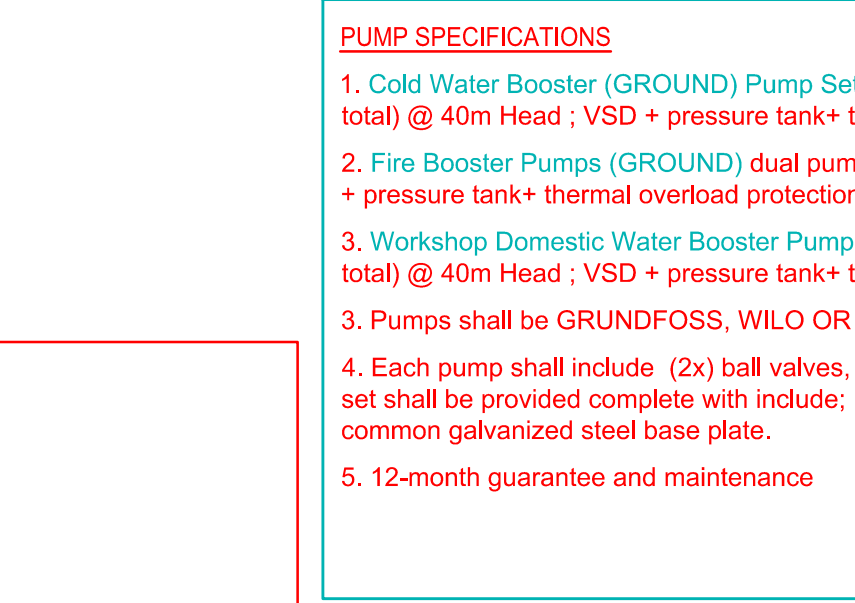
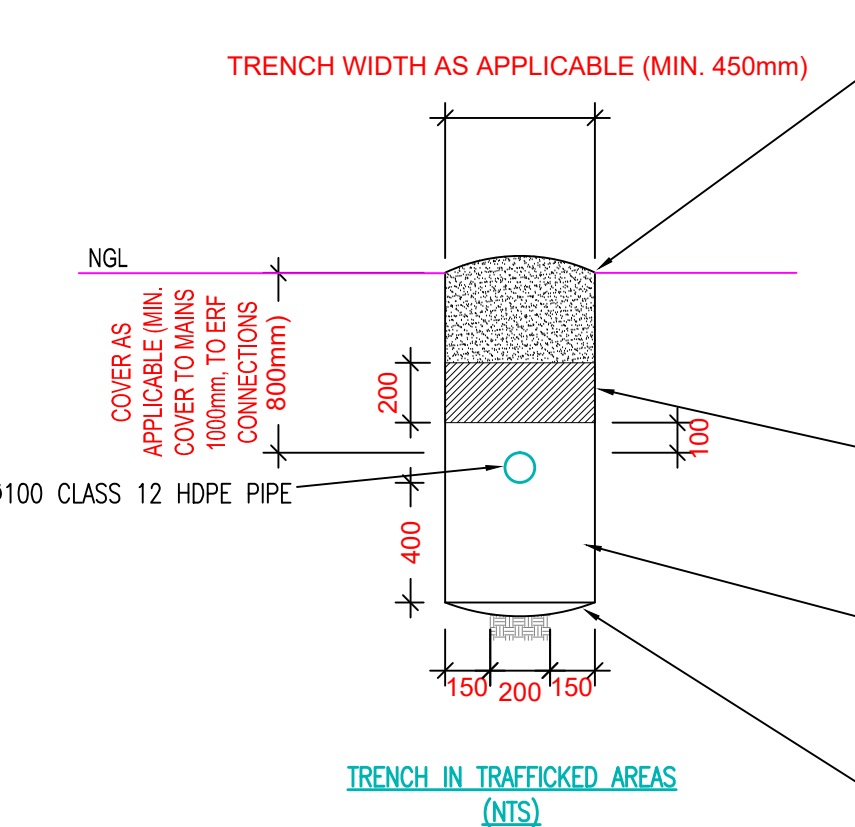
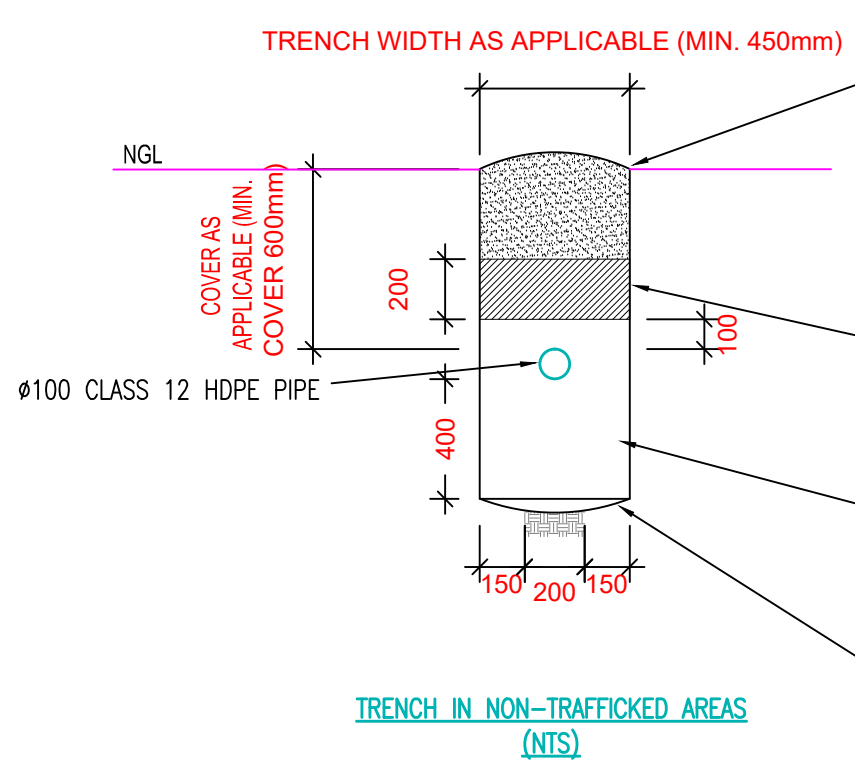
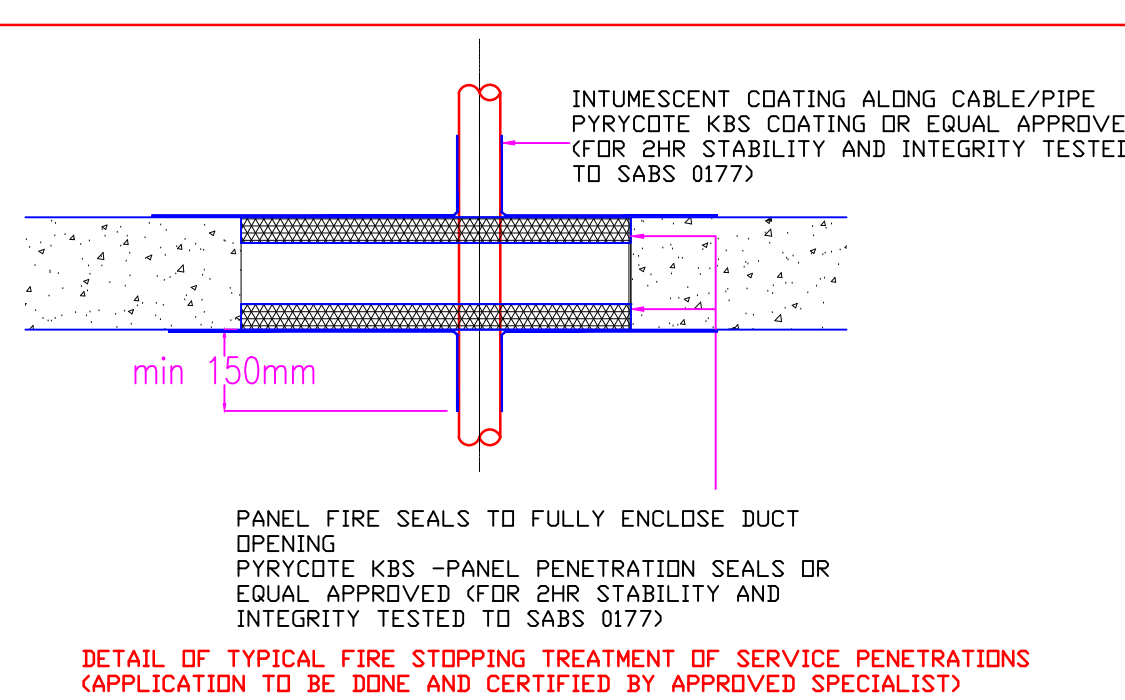
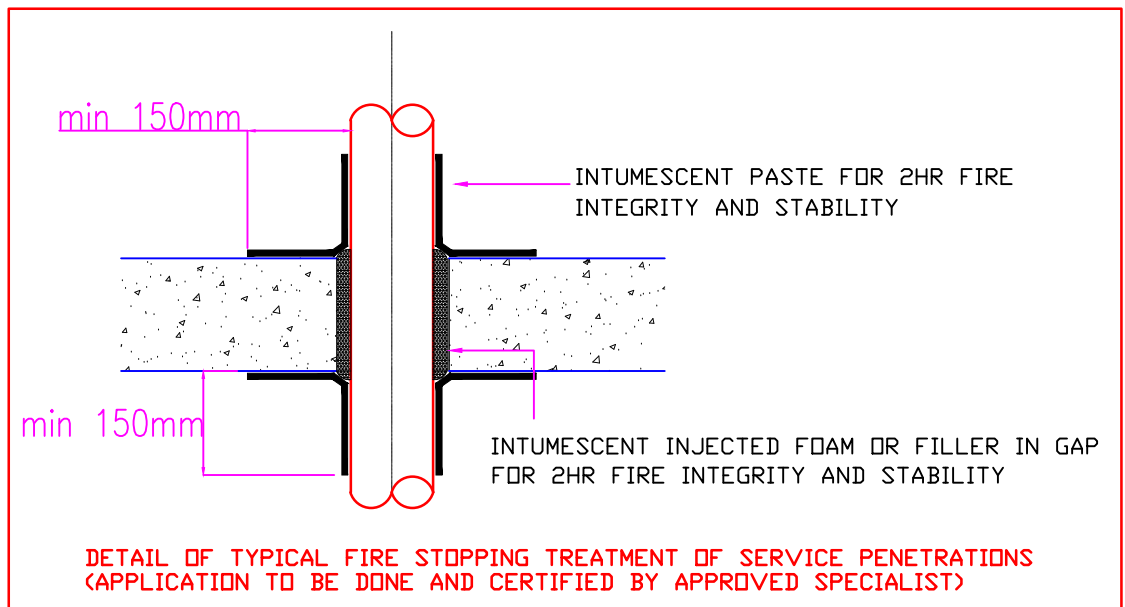


PARKING LEVEL
SCALE 1:100

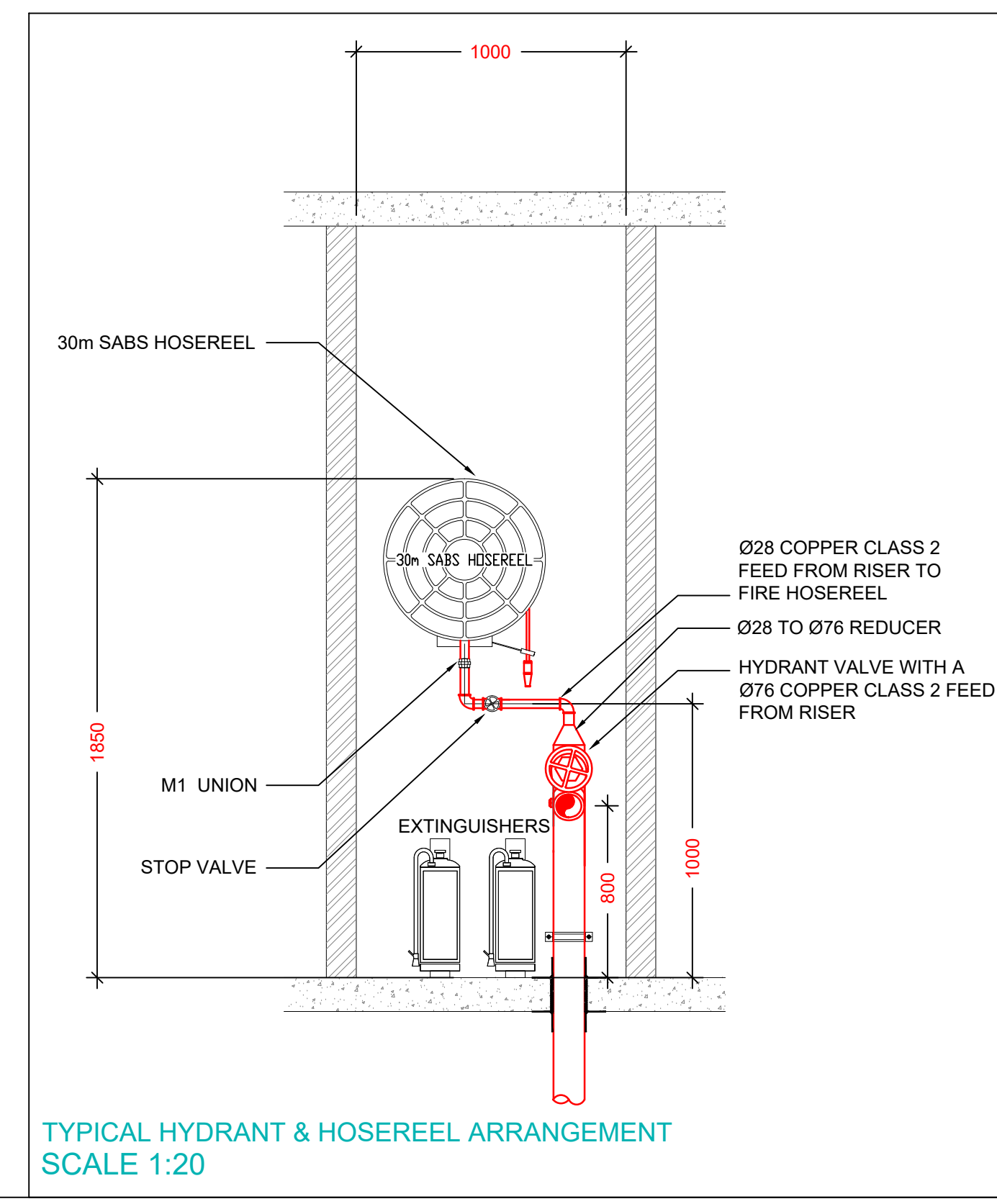
REF	HOUS	FL	IN	PHASE	QTY	HOUS	FL	IN	PHASE	QTY	LOCATION	DESCRIPTION	FIRE SONA
E1	400	-	15	3	1	-	-	-	-	-	BASEMENT LEVEL	POWER SUPPLY TO SPRINKLER PUMP (SPR/1) BY ELECTRICAL CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR	NO
E2	400	-	15	3	1	-	-	-	-	-	BASEMENT LEVEL	POWER SUPPLY TO WATER BOOSTER PUMP (WB/1) BY ELECTRICAL CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR	NO
E3	400	-	15	3	1	-	-	-	-	-	BASEMENT LEVEL	POWER SUPPLY TO WATER BOOSTER PUMP (WB/2) BY ELECTRICAL CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR	NO

LEGEND	DESCRIPTION
-----	HOT WATER SUPPLY
-----	COLD WATER SUPPLY
-----	HOT WATER RETURN
-----	MIXED COLD AND HOT WATER
-----	FIRE WATER SUPPLY RETICULATES ALONG SOFFIT
-----	FIRE WATER SUPPLY RETICULATES UNDERGROUND
-----	DOMESTIC WATER SUPPLY RETICULATES UNDERGROUND
-----	Cu Class 0 PIPING
-----	HOT WATER SUPPLY PIPE DROPPER
-----	HOT WATER RETURN PIPE DROPPER
-----	COLD WATER SUPPLY PIPE DROPPER
-----	BALL VALVE
-----	THERMOSTATIC BALANCING VALVE

- NOTES:
- ALL WORKS TO BE CARRIED OUT BY MUNICIPALITY REGISTERED PLUMBER
 - ALL WORKS TO BE SANS COMPLIANT
 - ALL WATER SUPPLY PIPES CAST IN THE SLAB TO BE SLEEVED
 - BALL-O-STOP STOPCOCKS/ANGLE VALVES SHALL BE PROVIDED AT EACH SANITARY WARE CONNECTION
 - ALL FIRE & WATER PIPING IN GROUND TO BE HOPE
 - ALL PIPING TO AND FROM GEYSER WITHIN A LENGTH OF ONE METER TO BE COPPER
 - ALL HOT WATER SUPPLY AND RETURN PIPING SHALL HAVE INSULATION WITH A MINIMUM R VALUE=1m2.K/W
 - ALL GEYSERS SHALL HAVE INSULATION WITH A MINIMUM R VALUE=2m2.K/W
 - ALL PLUMBING MATERIAL TO BE SANS/ASME APPROVED
 - ALL PIPING SHALL BE IN ACCORDANCE WITH SANS 10252-1
 - ALL PLUMBING TO BE COMPLIANT TO ETHERWIN MUNICIPALITY BY-LAWS
 - PUMP ARRANGEMENT FOR WATER METERS TO BE AS PER MUNICIPALITY REQUIREMENTS
 - WHERE COPPER PIPING IS INSTALLED IT SHALL BE IN CLASS 2 COPPER. PIPES CHASED IN WALL TO BE WRAPPED IN BROWN PAPER/BENDO TAPE.
 - LOCALIZED ISOLATORS TO BE PROVIDED FOR HEAT PUMPS, HEAT PUMP CIRCULATING PUMPS, HOT WATER RETURN PUMPS, AND HOT WATER TANKS.



- PUMP SPECIFICATIONS
1. Cold Water Booster (GROUND) Pump Set VERTICAL MULTI-STAGE: Domestic - 3.5liters each (7/15 accumulated total) @ 40m Head: VSD + pressure tank+ thermal overload protection, run dry protection, and auto lead/lag flip-flop.
 2. Fire Booster Pumps (GROUND) dual pump set 0.75liters each (1.5liters accumulated total) @ 45m Head: constant speed + pressure tank+ thermal overload protection, run dry protection, and auto lead/lag flip-flop.
 3. Workshop Domestic Water Booster Pump: VERTICAL MULTI-STAGE: Domestic - 1.5liters each, 3liters accumulated total) @ 40m Head: VSD + pressure tank+ thermal overload protection, run dry protection, and auto lead/lag flip-flop.
3. Pumps shall be GRUNDFOS, WILO OR KSB vertical make with integrated controls.
4. Each pump shall include (2x) ball valves, (1x) Non-return valves, (1x) Strainers, (1x) Pressure gauges. Each pump set shall be provided complete with include: Pressure sensor, motor control panel, Pressure tank, Gate valve, and common galvanized steel base plate.
5. 12-month guarantee and maintenance



WATER SUPPLY

FOR TENDER

REV	DESCRIPTION	CM	BY	DATE
0	ISSUED FOR TENDER	CM	BY	11.07.2025

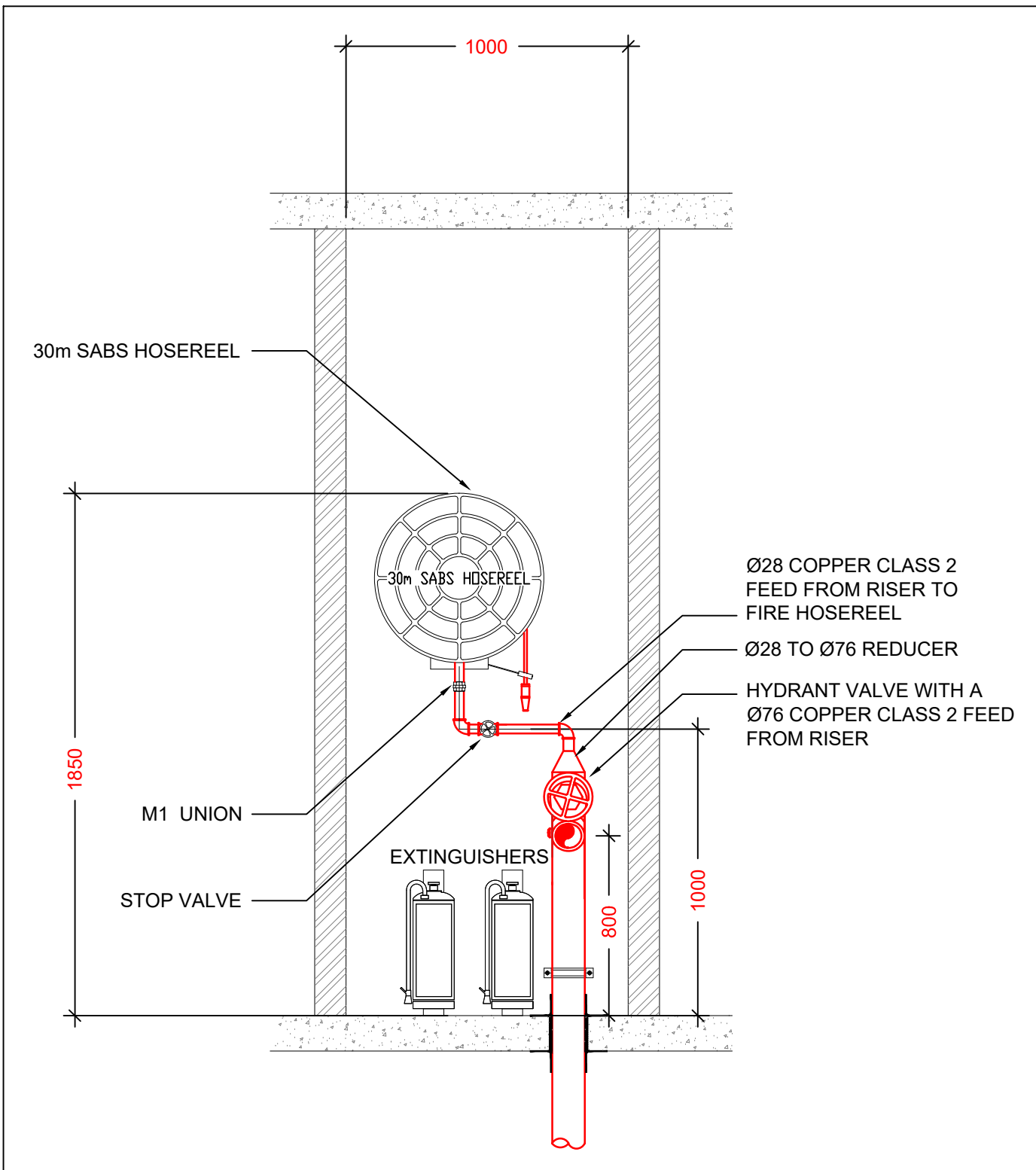
ARCHITECT:	ARTK 4 ARCHITECTS (Pty) Ltd
Durban: 46 Lena Avenue Road, Glenwood, Durban 4000	Artk 4 Architects (Pty) Ltd
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Cell: 039 682 2447 fax: 039 682 2448 email: admin@artk4.co.za	Artk 4 Architects (Pty) Ltd

CONSULTING MECHANICAL ENGINEERS:	MAHESH KHOOSAL & ASSOCIATES
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	Ph: 031-536 8306
	Fax: 031-536 8276



SOUTHERN REGION

Project	DEPARTMENT OF HEALTH INSTITUTION NEW PSYCHIATRIC WARD PORT SHEPSTONE HOSPITAL
Drawing Description	WATER SUPPLY PARKING LEVEL PLAN LAYOUT
Drawn	AS
Scale/s	1:100
Consultant Drawing number	M652/WS/01 Rev.0
DOPW Drawing number	WIMS NO/044044/A01
Stamped by Plans Approval Committee	



LEGEND:	DESCRIPTION
	HOT WATER SUPPLY
	COLD WATER SUPPLY
	HOT WATER RETURN
	MIXED COLD AND HOT WATER
	FIRE WATER SUPPLY RETICULATES ALONG SOFT
	FIRE WATER SUPPLY RETICULATES UNDERGROUND
	DOMESTIC WATER SUPPLY RETICULATES UNDERGROUND
	Cu Class D PIPING
	HOT WATER SUPPLY PIPE DROPPER
	HOT WATER RETURN PIPE DROPPER
	COLD WATER SUPPLY PIPE DROPPER
	BALL VALVE
	THERMOSTATIC BALANCING VALVE

- ALL WORKS TO BE CARRIED OUT BY MUNICIPALITY
- REGISTERED
- ALL WORKS TO BE IN SACS COMPLIANT
- WATER SUPPLY PIPES CAST IN THE SLAB TO BE SLEEVED
- BALL-O-STOP STOPSTOPS/ANGLE VALVES SHALL BE INSTALLED AT EACH END OF THE PIPING
- ALL FIRE & WATER PIPING IN GROUND TO BE HDPE
- ALL PIPING TO AND FROM GEYSER WITHIN A LENGTH OF ONE METER TO BE COPPER
- WATER METER AND RETURN PIPING SHALL HAVE INSULATION WITH A MINIMUM R VALUE=1m2K/W
- ALL GEYSERS SHALL HAVE INSULATION WITH A MINIMUM R VALUE=1m2K/W
- ALL PLUMBING MATERIAL TO BE SACS/JASWIC APPROVED
- ALL PIPING SHALL BE IN ACCORDANCE WITH SACS 10252-1
- WATER SUPPLY PIPING COMPLIANT TO ENDSHOW
- PLUMBING ARRANGEMENT BY-LAWS
- PIPING ARRANGEMENT FOR WATER METERS TO BE AS PER MANUFACTURER RECOMMENDATION
- WHERE COPPER PIPING IS INSTALLED IT SHALL BE IN CONFORMITY WITH SACS 10252-1
- WHERE PIPING IS TO BE USED IN SHALL BE WRAPPED IN BROWN PAPER/DENSO TARP
- LOCALIZED ISOLATIONS TO BE PROVIDED FOR HEAT PUMPS, HOT WATER TANKS, PUMPS, HOT WATER RETURN PUMPS, AND HOT WATER TANKS.

FOR TENDER

0	ISSUED FOR TENDER	OM	11.07.2025
REV	DESCRIPTION	BY	DATE

ARCHITECT:

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CONSULTING MECHANICAL ENGINEERS:
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Mechanical Consulting Engineers
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SOUTHERN REGION

Project

DEPARTMENT OF HEALTH INSTITUTION
NEW PSYCHIATRIC WARD PORT SHEPSTONE
HOSPITAL

Drawing Description

WATER SUPPLY GROUND FLOOR
PLAN LAYOUT

Drawn AS Date 27/09/2021

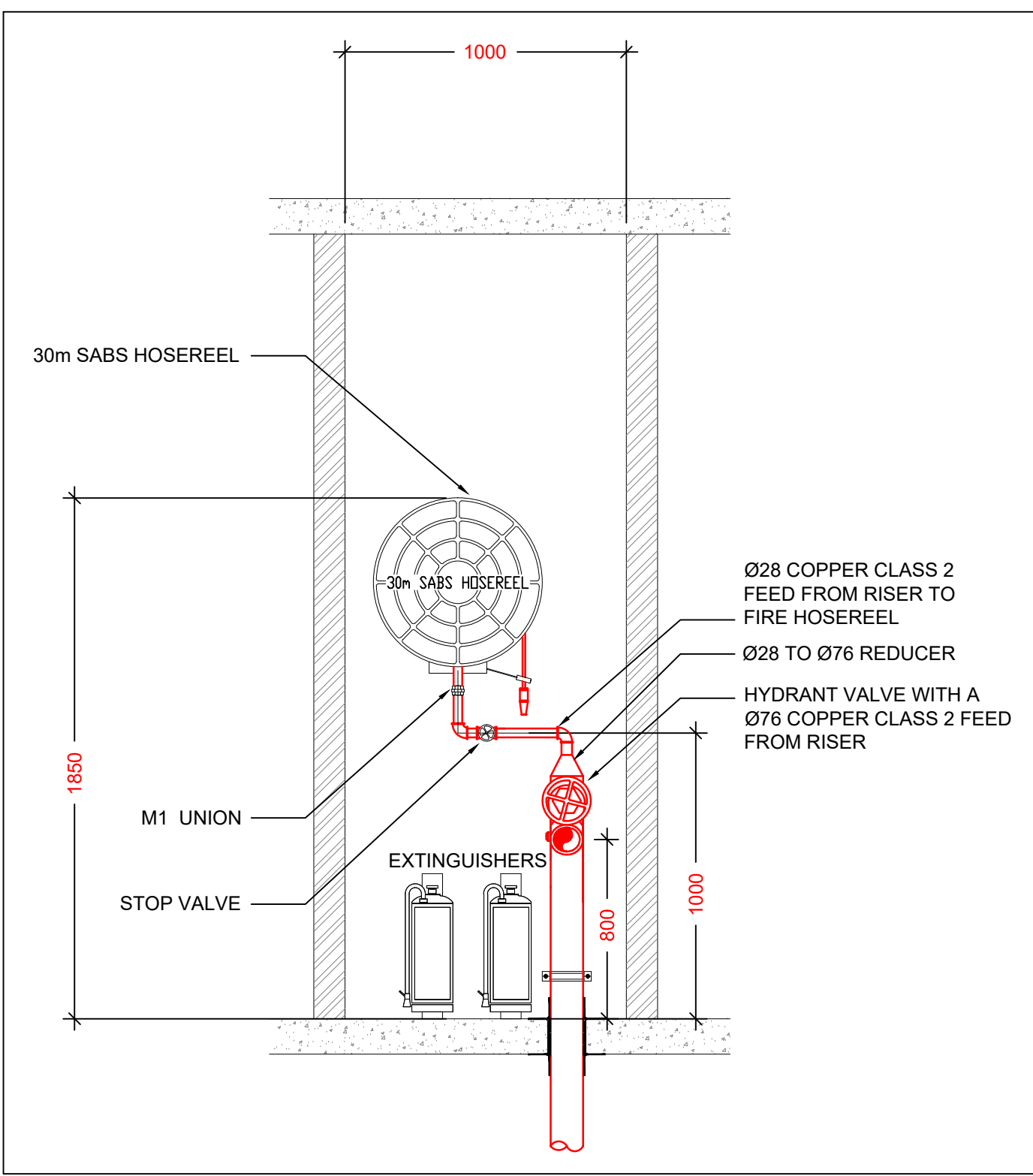
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Consultant Drawing number

DOPW Drawing number

WIMS NO/044044/A01

Stamped by Plans Approval Committee



TYPICAL HYDRANT & HOSEREEL ARRANGEMENT
SCALE 1:20

LEGEND:	DESCRIPTION	NOTES:
	HOT WATER SUPPLY	-ALL WORKS TO BE CARRIED OUT BY MUNICIPALITY REGISTERED PLUMBER
	COLD WATER SUPPLY	-ALL WORKS TO BE SANS COMPLAINT
	HOT WATER RETURN	-ALL WATER SUPPLY PIPES CAST IN THE SLAB TO BE SLEEVED
	MIXED COLD AND HOT WATER	-BALL-0-STOP STOPOCKS/ANGLE VALVES SHALL BE PROVIDED AT EACH SANITARY WATER CONNECTION
	FIRE WATER SUPPLY RETICULATES ALONG SLOTT	-ALL FIRE & WATER PIPING IN GROUND TO BE HOPE
	FIRE WATER SUPPLY RETICULATES UNDERGROUND	-ALL PIPING TO AND FROM GYSER WITHIN A LENGTH OF ONE METER TO BE COPPER
	DOMESTIC WATER SUPPLY RETICULATES UNDERGROUND	-ALL HOT WATER SUPPLY AND RETURN PIPING SHALL HAVE INSULATION WITH A MINIMUM R VALUE=10x2.0W/M
	Cu Class 0 PIPING	-ALL GYSERS SHALL HAVE INSULATION WITH A MINIMUM R VALUE=2x12.0W/M
	HOT WATER SUPPLY PIPE DROPPER	-ALL PIPING SHALL BE IN ACCORDANCE WITH SANS 10252-1
	HOT WATER RETURN PIPE DROPPER	-ALL PLUMBING TO BE COMPLIANT TO ETHERNORM
	COLD WATER SUPPLY PIPE DROPPER	MUNICIPALITY BY-LAWS
	BALL VALVE	-PIPING ARRANGEMENT FOR WATER METERS TO BE AS PER MUNICIPALITY REQUIREMENTS
	THERMOSTATIC BALANCING VALVE	-WHERE COPPER PIPING IS INSTALLED IT SHALL BE IN CLASS 2 COPPER, PIPES CHASED IN WALL TO BE WRAPPED IN BROWN PARFUMED TAPE
		-LOCALIZED ISOLATORS TO BE PROVIDED FOR HEAT PIPES, HEAT PUMP CIRCULATING PUMPS, HOT WATER RETURN PUMPS, AND HOT WATER TANKS.

[illegible]

