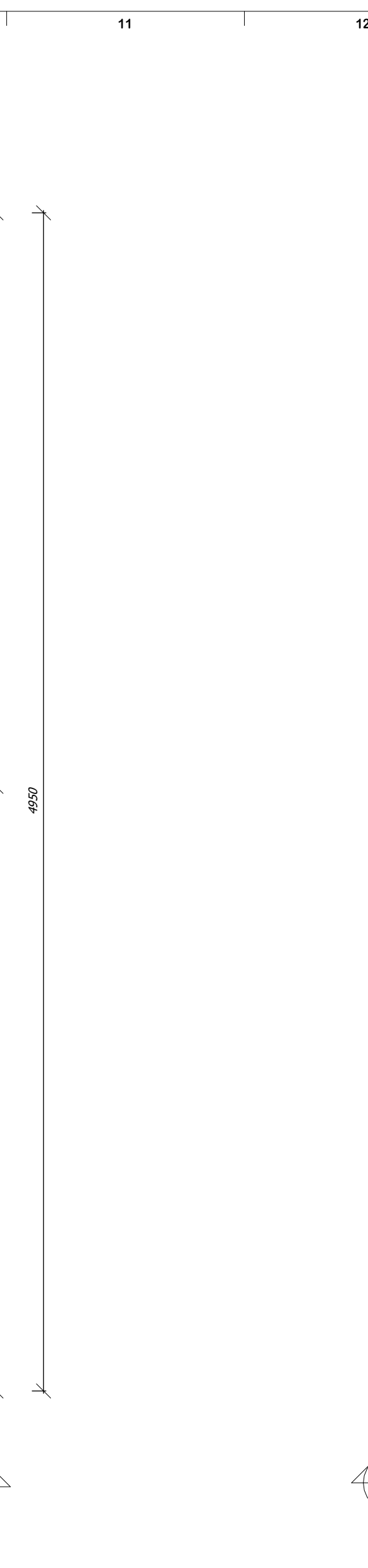
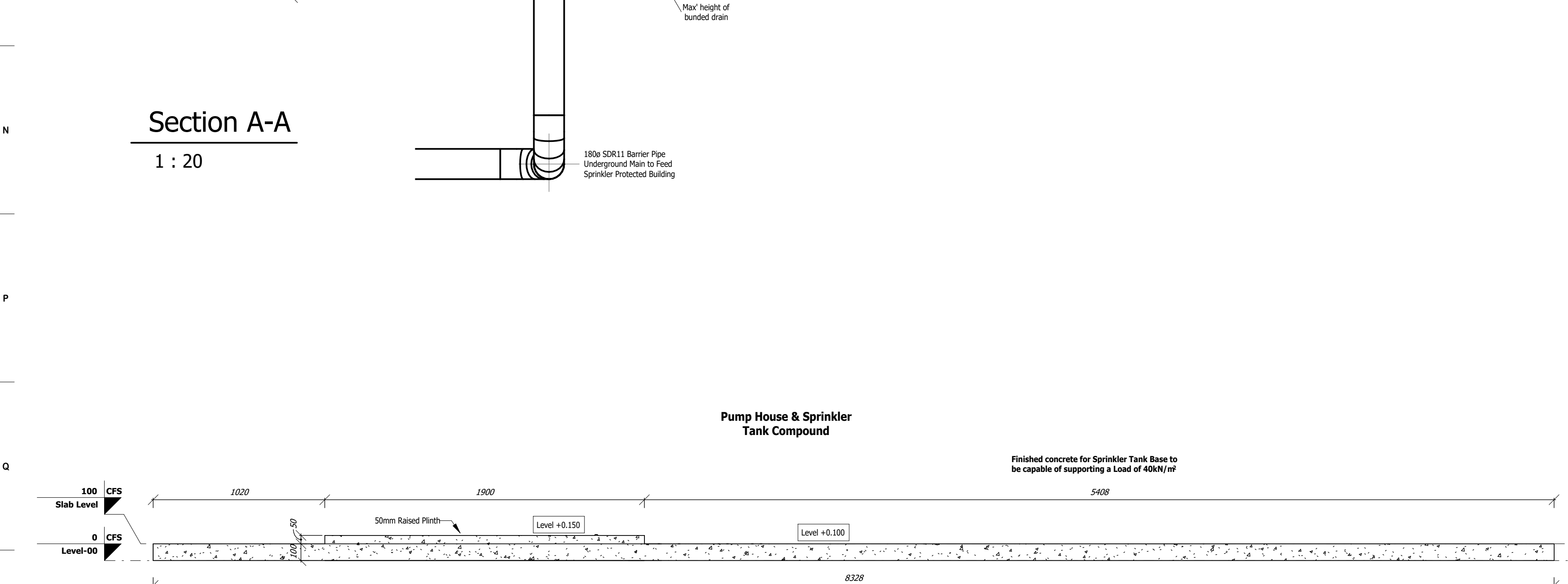


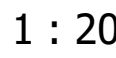


1 : 20



1 : 20

1 : 20



1 : 100

GENERAL NOTES

(Notes To The Main Contractor)

To enable the installation of the sprinkler system five pumps and tank to be installed conforming to, the following items must be achieved:

Finished base levels to pump house and tank base to be as per Company details any changes to this must be related to Geotech prior to casting for comment and approval.

Adequate grouting will be required for the pump house for system drainage, minimum flow lines, pump cooling lines, hot drains and flow lines etc. Once pipes are installed to the base of this area should be rock benched and sealed accordingly.

Concrete for Systems Ltd do not apply for any associated building works for this tank. Sprinkler tank base to be built in per set suppliers recommended data sheet with no sharp edges to ± 1 . Steel fabrications to be the outer perimeter with ± 30 mm internal diameter base as per the typical detail below. All fabrications steel sheet is suitable upon request.

Finished Concrete base to be capable of supporting a load of 400kN/m²

Sprinkler Base Level Tolerances & Typical Detail.

The diagram illustrates a cross-section of a sprinkler tank base. It features a central circular area labeled 'TANK' with a 'TANK TOP' indicated by a dashed line. The base is a thick concrete slab. A dimension line across the base indicates a 'Tolerance of Internal Surface To Be ± 1 - 20mm With No Sharp Edges'. A vertical dimension line on the right side of the base indicates a 'Tolerance of Shaded Area To Be ± 30 mm With No Sharp Edges'. A vertical dimension line on the left side of the base indicates a 'Tolerance of Tank To Be ± 1 - 20mm With No Sharp Edges'. The base is labeled 'FINISHED CONCRETE BASE'.

FINISHED CONCRETE BASE

Figure 1: Typical Detail Flatness Tolerance. The diagram shows a cross-section of a concrete slab on ground. The top layer is 'Compacted On Hard Ground Suitable for Acc'. Below this is a '200 mm Step' leading to the 'Tank Shell'. The slab contains two '100 Internal Flat Areas Reinforced Concrete'. Another '100 mm Step' leads to the bottom layer, also 'Compacted On Hard Ground Suitable for Acc'. A timeline at the top indicates 'Fitness Tolerance To Be +/- 5mm (650)' at the ends and 'Internal Flatness Tolerance To Be +/- 20mm With No Sharp Edges' in the middle.

Electrical Requirements
(Notes To The Site Electrical Contractor)

- Pump Room Electrical Supply Requirements
- Incoming electrical power supplies to be provided by the site electrical contractor, and all associated equipment must comply with the requirements of all current electrical standards and the requirements of the IECSE approved Associated Technical Bulletin, Specifically TB210.8.
- Refer To Electrical Schematic & Pump Room Layouts for Electrical Requirements
- Type external drawings and model references here please

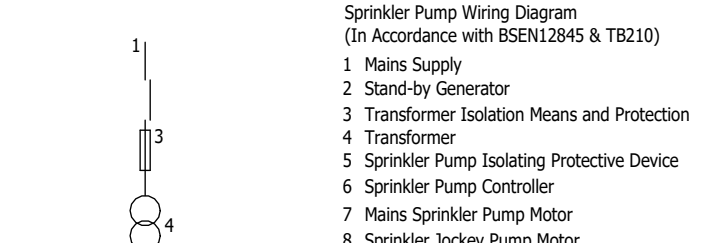
Detail A - Trench

The diagram shows a cross-section of a trench with the following layers from top to bottom:

- 400 MM PE
- CIRCULATED WATER CORE
- MEDIANALLY COMPACTED
- COMPACTED BY HAND
- MARKER STRIP
- SAND/SILT
- SDR 11 UNDERGROUND MAIN
- SNAP-ON
- GRAVEL ± 30mm

Dimensions are indicated on the right side of the diagram:

- 400 mm (for the top two layers)
- 450 mm (for the third layer)
- 300 mm (for the fourth layer)
- 250 mm (for the fifth layer)
- 250 mm (for the sixth layer)
- 250 mm (for the seventh layer)
- 250 mm (for the eighth layer)
- 250 mm (for the ninth layer)



Sprinkler Pump Wiring Diagram
(In accordance with BS20124:2005 & BS7671)

1. Mains Supply
2. Stand-by Generator
3. Transferring Isolator Switch and Protection
4. Transfermer
5. Sprinkler Pump Isolating Protective Device
6. Sprinkler Pump Controller
7. Mains Sprinkler Pump Motor
8. Sprinkler Solenoid Pump Motor
9. Mains Switch, 10. For Building Services
11. Mains Distribution Board, 12. For Building Services
13. Mains Switch, 14. Mains House Ancillary Equipment (Heating, Lighting etc)
15. Change-over Switch
16. Transformer Buzzer

It is a requirement of BS20124:2005 that the supply shall be designed to meet the combined current of all connected loads. The supply to the pump, even if it is a call or remote control and any other (e.g. call) must conform to accordance with BS7671-8.2.1 (c).

BUILDING CONSTRUCTION	
INTERIOR WALLS / PARTITIONS	On framing (Combustible / Non)
EXTERIOR WALLS	Brick / Cladding (Combustible / Non)
SUPPLY DUCTINGS	On framing (Combustible / Non)
DESIGN CRITERIA	
OCCUPANCY	1. SCHOOL
INSTALLATION NUMBER, SIZE & TYPE	2. 100mm
WATER SUPPLIES	3. 100mm
HAZARD CLASSIFICATION	4. 100mm
AREA OF OPERATION (m ²)	5. 100mm
DENSITY OF DISCHARGE (mm/min)	6. 100mm
DESIGNATED WAREHOUSE	7. 100mm
TYPE OF PROTECTION	8. 100mm
STORAGE TYPE / HEIGHT / CATEGORY	9. 100mm
WIRE CABLE CLOSURE BELOW SPRINKLER	10. 100mm
WIRE CABLE CLOSURE ABOVE W. CABLE	11. 100mm
WATER SUPPLY / FINISH	
TYPE SPECIFICATION	12. 100mm
WATER SPECIFICATION	13. 100mm
TYPE FINISH	14. 100mm
FINISH SPECIFICATION	15. 100mm
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REV	DESCRIPTION	CHKD	DRW	DATE
P02	Approval Issue - Relocated Tanks		WT	02/02/2026
P01	Approval Issue	SP	WT	08/01/2025

STAGE APPROVAL
 "NOT FOR FABRICATION"


COMPCO
 Fire Systems

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Assessed to ISO 9001
 Cert / LPCB ref. NO 2774

CLIENT:	Willmott Dixon Construction		
TITLE:	Sprinkler System Water Supplies Builders Work Layout & Details		
CONTRACT:	Caerleon Comprehensive School Cold Bath Road, Newport, NP18 1NF		
DATE:	SCALE:	STATUS	
02/02/2026	As indicated	A4	
CREATED BY:	APPROVED BY:	MODEL NUMBER:	
WT	SD	-	
DRAWING NUMBER:			REV
CCS-CFS-xx-xx-DR-X-000102			P02