



- NOTES**
1. ALL WORK TO COMPLY WITH SANS 10400-NATIONAL BUILDING REGULATION
 2. (a) EXTINGUISHERS TO BE INSTALLED IN ACCORDANCE WITH SANS 5105
(b) HOSE REELS TO BE INSTALLED IN ACCORDANCE WITH SANS 543.
(c) HYDRANTS TO BE INSTALLED IN ACCORDANCE WITH SANS 1128 PART 1.
 3. PORTABLE FIRE EXTINGUISHERS TO BE HUNG ON PURPOSE MADE BOARDS AND LOCATED IN SECURE POSITIONS AS INDICATED ON PLAN AND TO COMPLY WITH TT37.
- FIRE NOTES**
- SPECIFICATION HYDRANTS & HOSE REELS:**
- PIPEWORK**
1. All above ground piping up to and including 150 Ø shall be Medium Quality Black piping to SANS 82/1971.
 2. Piping in excess of 150 Ø shall be Medium Quality Black piping to SANS 719 with 6mm wall thickness.
 3. Below ground pipework shall be as above, however, bitumen coated or uPVC piping to SANS 565.
- PIPE FITTINGS:**
1. Screwed pipe fittings up to and including 150 Ø shall be malleable cast iron to SABS 509/1975 or BS 1431/1952.
 2. Flanges up to and including 150 Ø shall be steel plate flanges to SANS 1123/16004 or BS 4505/1614.
 3. Welded pipe fittings larger than 150 Ø to 300 Ø shall be steel butt-welded type to AS BS 304/72.
 4. Welded flanges larger than 150 Ø to 300 Ø shall be steel plate flanges to SANS 1123/16003 or BS 4504/1613.
- WELDING**
1. Welding shall be to BS 2871 - Specification for Arch Welding of carbon steel pipework for carrying fluids without radiography and stress relieving.
- PIPE FIXINGS**
1. Purpose made pipe brackets and hangers shall be used to support the weight of the pipe plus fluid.
 2. Hung piping shall be at the following intervals:
Up to 32 Ø - 1800 mm
32 Ø to 40 Ø - 2400 mm
50 Ø to 80 Ø - 3000 mm
100 Ø to 300 Ø - 4000 mm
- PAINTING**
1. All black mild steel piping shall be thoroughly cleaned, degreased and painted with an undercoat, to the Supplier's recommendation (red oxide).
 2. All installed exposed piping shall be painted 2 coats of high quality signal red enamel paint, to the Supplier's recommendation.
- HYDRANTS**
1. Shall comply to SANS 1128.
 2. Hydrants shall be of the 65 Ø female coupling type c/w handwheel.
 3. Hydrants provided 1 per 100square meter
- HOSE REELS**
1. Shall comply to SANS 543.
 2. All hose reels shall be 30 m of length c/w 7 Ø aluminium discharge nozzle, handwheel isolating supply valve, roller guide to assist hose reel deployment from reel and union coupling in 28 Ø feed pipe.
- General Notes**
1. 72 cubic meters of water reserved for fire purposes
 2. Twin booster connection pressure gauge up to 2500kpa
 3. Design site pressure to be 300kpa
 4. Sectional steel tank to be water tight and vermin proof
 5. Fire Fighting Equipment to operate at 30L/min @300kpa for Fire Hose Reels 1200L/min @ 300kpa for Fire Hydrants
 6. Fire Hose reels to cover a diameter of 30m and Fire Hydrants to be 1/1000sqm

Signature by the Client department

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Revisions			
Rev. No.	Date	Description	Rev. by

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PROVINCE OF KWAZULU NATAL
DEPARTMENT
OF
EDUCATION
HEAD: EDUCATION

PROJECT DEPARTMENT OF EDUCATION:
KING CETSHWAYO DISTRICT MUNICIPALITY
PROPOSAL - UPGRADES & ADDITIONS
AT NDABAYAKHE PRIMARY SCHOOL

DRAWING DESCRIPTION
FIVE CLASS ROOM
FIRE PROTECTION

PROJECT No.		DRAWING No.	REVISION
1905-04		ME.F001	0
SCALE	DATE	DESIGNED/DRAWN	CHECKED
1:100	Sep 2022	I.T	E.S

NDABAYAKHE PRIMARY SCHOOL