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2017 -12- 12

CITY OF TSHWANE
CITY PLANNING AND DEVELOPMENT
2018 -08- 01
RECOMMENDED

CITY OF TSHWANE
2018 -08- 01
MUNICIPAL HEALTH SERVICES
2019 -03- 02
APPROVED

Fire notes:

Occupancy Classification: H3

Domestic residence. Occupancy consisting of two or more dwelling units on a single site.
To comply with SANS 10400-T:2011
4.2 Safety distances: This building will comply
4.35 Hydrants with 90 m radius will be installed throughout the development adhering to part W. No furthest point in any building will be more than 90 m away from a hydrant.
4.54 Access for fire fighting and rescue purposed: All escape door shall be marked clearly from the exterior of the building. The entrance to the premises will not be less than 4500 mm x 4500 mm (width and height).

75mm Communication pipe to fire pump connection at 52 meters

Service pipe to fire pump connection
PF ≥ Pm - (Hf - Hc) - PL
= 64 - (1.5 - 0.5) - (52 x 0.53)
= 64 - 1 - 27.56
=35.44 (> 5 Ml is acceptable at fire pump connection)

Service pipe to Hose reels A:
PF ≥ Pm - (Hf - Hc) - PL
= 64 - (34 - 0.05) - (4.5 x 0.41)
= 64 - 2.04 - 1.84
=60.12 (> 30 M is acceptable at fire Hose reel connection)
Most remote hose reels at ground floor is 34 meters away, on 50 mm pipe with 4.5 m up with 25 mm pipe, serving 4 hose reels. The friction factor for 50 mm pipe serving 4 hose reels is 0.06

Service pipe to Hose reels B:
PF ≥ Pm - (Hf - Hc) - PL
= 64 - (25 - 0.18) - (4.5 x 0.41)
= 64 - 4.5 - 1.84
=57.66 (> 30 M is acceptable at fire Hose reel connection)
Most remote hose reels at ground floor is 25 meters away, on 32 mm pipe with 4.5 m up with 25 mm pipe, serving 2 hose reels. The friction factor for 32 mm pipe serving 2 hose reels is 0.18

Service pipe to Hose reels C:
PF ≥ Pm - (Hf - Hc) - PL
- 64 - (49 x 0.02) - (4.5 x 0.41)
= 64 - 0.98 - 1.84
=61.18 (> 30 M is acceptable at fire Hose reel connection)
Most remote hose reels at ground floor is 49 meters away on 75 mm pipe with 4.5 m up with 25 mm pipe, serving 6 hose reels. The friction factor for 75 mm pipe serving 6 hose reels is 0.02

Water notes:
All Embedded pipes to be HDPE/UPVC Class 12 pipes. Where pipe lines is surfaced mounted for fire fighting equipment the pipe shall be of Galvanized or Copper. All pipes to be correctly sized as per fire water calculations and design.

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Proposed new development for Exakto Projects, Erf - 2131 Cultura Park, Erasmus X8, Bronkhorstspruit

site development plan

National Fire Safety Design