



REFERENCE : TPW (Job 27687)
ENQUIRIES : Ms GD Swanepoel
DATE : 27 May 2020

The Municipal Manager
Municipality of Prince Albert
Private Bag X53
PRINCE ALBERT
6930

Attention: Ms A Vorster

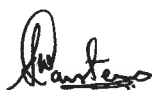
Dear Madam

**CONTRACT #33589: PROPOSED PIPELINE CROSSING TRUNK ROAD 33 SECTION 4 (N12),
KLAARSTROOM**

1. Your unreferenced letter of 9 March 2020 to this Branch refers.
2. As per your letter and the attached BVI Consulting Engineers' drawing 33589-201-06 revision 1 dated 5 March 2020 is Trunk Road 33 section 4 (N12), for which this Branch is the Road Authority, affected with your proposed 110mmØ uPVC treated effluent pipeline as follow:
 - 2.1 With a perpendicular crossing at ±km23.47 through a 300mmØ HDPE sleeve pipe that must be installed by means of a trenchless method. Note that BVI's cross-section drawing needs to be amended to reflect the correct pipes (type and diameter) and installation depth (never less than 1000mm cover – side drains included).
 - 2.2 Parallel to and outside of the road reserve boundary, but within the adjacent 5m Building Line (Roads Ordinance 19 of 1976) and the 95m Building Restriction (Act 21 of 1940), between ±km23.47 LHS and ±km23.50 LHS.

3. This Branch, in terms of Sections 9 and 9A of Act 21 of 1940 and Section 17 of Roads Ordinance 19 of 1976, grants approval for the installation of the pipeline as per paragraph 2, and all subparagraphs thereof. This approval is also subject to the enclosed standard conditions and further subject to:
 - 3.1 Prince Albert Municipality, the service owner, must undertake in writing to remain responsible for all the installation and maintenance costs towards this pipeline.
 - 3.2 Before any construction activities may commence, you must accept the handing over of the site in writing from the District Roads Engineer, Oudtshoorn.
 - 3.3 Your traffic accommodation must be approved in writing by the District Roads Engineer, Oudtshoorn prior to this installation commencing.
 - 3.4 After completion of the works, the District Roads Engineer, Oudtshoorn must accept in writing the handing over of the site from you.
 - 3.5 As built drawings must be sent to this Branch (Attention: Ms G Swanepoel) and the District Roads Engineer, Oudtshoorn.

Yours faithfully



SW CARSTENS

For CHIEF DIRECTOR: ROAD NETWORK MANAGEMENT

ENDORSEMENTS

1. Municipality of Prince Albert
Attention: Mr A America (e-mail: ashley@pamun.gov.za)
2. District Roads Engineer
Oudtshoorn
3. Mr SW Carstens (e-mail)
4. Mr E Burger (e-mail)
5. Mr J van der Merwe (e-mail)

**STANDARD CONDITIONS IN CONNECTION
WITH THE LAYING OF PIPES, ETC.,
UNDER OR ALONG PUBLIC ROADS**

The following standard conditions must be fulfilled at all times when pipes are laid within the road reserve or within 5m from the road reserve of a Proclaimed Road in terms of the Ordinance on Roads, Ordinance 19 of 1976.

- 1 The applicant must inform the District Roads Engineer or the District Municipality concerned at least fourteen (14) days before commencement of the work of the date on which the work will commence. Immediately on completion of the work, the District Roads Engineer or District Municipality concerned must be informed thereof quoting the reference number and date of the letter of approval.
- 2 All the work within a road reserve must be carried out by an approved contractor to the satisfaction of the relevant District Roads Engineer or District Municipality and in close collaboration with the Traffic Section concerned.
- 3 Where a pipe, etc., is laid parallel to the road within the statutory road width, it must be laid at a distance of not more than one (1) metre from the boundary of such width and at a depth of at least one (1) metre.
- 4 Where a pipe, etc., is laid parallel to the road outside the statutory width, it must be laid not closer than one (1) metre to the boundary of such width and at a depth of at least one (1) metre.
- 5 Where a water pipe crosses a public road, it must be placed in a sleeve of sufficient diameter over the full statutory width of the road, which sleeve pipe –
 - 5.1 must be laid at a depth of at least one (1) metre below ground level for the full statutory road width, where use is made of an existing culvert with an earth floor;
 - 5.2 may be placed in a concrete casing on the floor of the culvert, where use is made of an existing culvert with a concrete floor, provided it does not impair the effectiveness of the culvert and provided the section of the sleeve pipe on either side of the culvert up to the boundaries of the statutory road width are laid at least one (1) metre below ground level, and
 - 5.3 must be laid at right angles across the road at a depth of at least one (1) metre below road level, where no existing culvert is available. In the case of a road with a permanent surface it must preferably be jacked through underneath the roadway so as to avoid the digging of a trench across the roadway.
6. Should the placing of a sleeve, in the case of large diameter pipes, be considered impractical or uneconomical, the applicant may submit alternative proposals for consideration. Full details of the design, with due regard to pipe diameter, sub-soil conditions and adequate bedding, thickness of concrete to encasement etc., should be provided.
7. Where it is not possible to jack through underneath a road with a permanent surface the applicant must apply in writing, with the necessary motivation to lay the sleeve by means of open trenching. If approved, any trench must be dug in such a manner that, preferably, only one half of the roadway is closed to traffic at any stage. Provision must also be made for the necessary traffic signals in accordance Chapter 13 of Volume 2 of the South African Road Traffic Signs Manual. In such cases adequate arrangements for the safe movement of traffic must be made in collaboration with the Traffic Section concerned.
- 8 All excavations within the statutory road width must be reinstated to the satisfaction of the relevant District Roads Engineer or District Municipality and-
 - 8.1 in the case of an excavation across the road, suitable non-weathering material (such as plastic sheeting) must be placed at a depth of 0,5 m above the sleeve pipe to define clearly the depth of such sleeve pipe and to serve as a warning device, and

- 8.2 to the following specification in case of a permanently surfaced road: -
- 8.2.1 The trench must be backfilled with dampened and thoroughly compacted sand in 150mm layers up to a level to accommodate the following thickness of compacted material: -
- 150 mm approved subbase gravel;
- 200 mm basecourse consisting of 35 mm crusher-run stone mixed with an approved binder and suitably compacted in two 100 mm layers, and
- a 30 mm - 35 mm bitumen premix wearing course with a slurry seal.
- 8.2.2 The layers of subbase and basecourse must be dampened and thoroughly compacted before placing the succeeding layers. The upper surface of the basecourse must be painted with a light application of primer or emulsion before placing the premix wearing course.
- 9 The applicant must bear all costs incurred by a controlling authority in repairing a permanent surface which as a result of latent defects, has failed within twelve (12) months after being reinstated in accordance with paragraph 9 above.
- 10 If any fence along the road boundaries is removed by the applicant or is damaged through his activities, it must be restored to the original standard.
- 11 The applicant must undertake in writing -
- 11.1 to maintain at his own cost at all times all pipes, etc., laid within the statutory road width and to take all necessary precautions to ensure the safety of the road users, and that he will make good any expenses occurred by the Road Authority in connection with the reinstatement of any damage to the road due to the installation, maintenance, repair of, or any defect, what so ever caused by the pipe or section thereof which was laid according to this approval.
- 11.2 not to hold the controlling authority responsible or liable for any costs incurred or any loss suffered in the event of such controlling authority, directing for any reason whatsoever, the removal or the shifting or the relocation of or alteration to any pipe, etc., laid within the statutory width of a public road or within a distance of five (5) metre outside such statutory width;
- 11.3 to remove, shift, relocate or alter at his own cost and without compensation any pipe, etc. excluding a water work as defined in section 1 of the Water Act, 1956 (Act No. 54 of 1956), laid at a distance of more than five (5) m outside the statutory road width but within a distance of 95 m from the centre line of a public road, if such removal, shifting, relocation or alteration is deemed necessary by the controlling authority as a result of the widening, construction or maintenance of such road; provided that such widening, construction or maintenance shall not involve a deviation of the road;
- 11.4 to indemnify the controlling authority against all claims of whatever nature, including legal costs, by any person, including the applicant, originating from or as a result of the laying of any pipe, etc., or as a result of the negligence of the applicant to maintain or safeguard properly the said pipe, etc.;
- 11.5 not to hold the controlling authority liable for any damage to any pipe, etc., by whosoever, including any damage caused by the activities of the controlling authority in connection with the construction, reconstruction or maintenance of the public road(s) concerned or by any other action of the controlling authority, unless negligence on the part of such controlling authority or its officials or employees can be proved, and
- 11.6 to expose at his own cost and without compensation, any underground pipe laid within the statutory width of a public road, if it is deemed necessary by the controlling authority for the construction, reconstruction or maintenance of such road.

- 12 In all cases where access(es) to or from the public road(s) is/are required, specific application must be made quoting the kilometre distance(s) where such access(es) is/are required.
- 13 No work may be undertaken within the statutory width of a public road before sunrise or after sunset, except in a case of emergency when it must be carried out in collaboration with the Traffic Section concerned. This is to ensure the safety of the road users. Adequate warning signs must be displayed.
- 14 The work may only be carried out provided the foregoing conditions, where applicable, are accepted in full and provided all the prescriptions, requirements and obligations, which the controlling authority might impose in connection with the work under or along the road(s), are accepted and complied with.