

US Embassy Irrigation System Piping Leak Repair

Scope Of Work

Irrigation system HD ethylene piping leak in the US Embassy compound shall be repaired as per Scope of Work herewith described.

1. Make asphalt saw cutting w/ diamond blade and preliminary sizes approximately 7 x 1.5 meter;
2. Demolish the asphalt within the cutting and remove all of it outside the compound to a place approved by Sofia Municipality; do the same for the base soil beneath the asphalt if it is clay, muddy or loamy;
3. Dig out the soil for finding location of the irrigation piping and its leak; depth of that piping is expected to be about 120 cm; Be careful above and close to the pipe because of power supply cables;
4. Repairing of the damaged part of the pipe by replacing part of it with HD polyethylene piping and respective fittings will be done by the Customer;
5. When the system is repaired and water tight, return back the soil while each 10 cm of back fill shall be compacted by a machine plate compactor;
6. The warning yellow tape shall be laid along the irrigation pipe 25 cm above the piping ;
7. Lay out so called dense material which is a combination of stone dust and small stones just below the asphalt (high quality gravel is also fine);
8. Make several passes from different directions w/ a machine plate compactor and compact the base firmly;
9. Implement two-stage of asphalt making process: lay down a layer of driveway binder first and then a top coat;
10. Compact the asphalt or rolling it;
11. Restore the parking lines;
12. Debris and wasted materials shall be taken out from the compound by the Contractor;
13. The Contractor shall take all necessary measures for not damaging the plants.

Facility Engineer, July 2014