

ANNEX “A” - STATEMENT OF WORK

1.0 PURPOSE

This Statement of Work (SOW) has been developed on behalf of Parks Canada to seek a licensed Sewage System Installer to replace the septic systems at 4715 York Durham Line, Pickering ON L1Y 1A3 (4715 YDL) and 9992 York Durham Line, Markham ON L6B 1A8 (9992 YDL)

2.0 SITE DESCRIPTION AND BACKGROUND

The Parks Canada Agency is establishing Canada's first national urban park – Rouge National Urban Park – in the heart of the Greater Toronto Area, Canada's largest and most diverse metropolitan region. Once fully established, RNUP will be one of the largest and best protected urban parks of its kind in the world. There are approximately 200 tenanted residences, and 4 office locations at the RNUP. Each tenanted property is connected to its own individual septic system, and they often fail to function properly due to its old age.

3.0 OBJECTIVES

The objectives of the work required under this Statement of Work (SOW) include accessing the site, decommissioning the old septic system and all parts associated with it with reasonable efforts, install new concrete tank and leaching field and return the septic system in fully functional state before October 30, 2023.

4.0 SCOPE OF WORK

The Septic System Installer undertaking the septic tank replacement activities must adhere to the requirements of the *Ontario Building Code (OBC) part 8* and hold a valid Ontario Building Code (OBC) Part 8 Sewage System Installer license. Work of this Contract comprises installation of the septic tanks and leaching beds according to the On-site Sewage System Layout Plan drawn by WSP Canada and approved by Parks Canada Agency. The following is a non-exhaustive general description of the scope of work.

1. Planning and conducting a Pre-Construction meeting with PCA to discuss installation, site access, installation schedule and other pertinent information.
2. Coordinating temporary sanitary service interruption with PCA and Tenants.
3. Hiring a specialized subcontractor for pumping and disposing of domestic sewage and septic sludge at existing septic tank, as often as required to complete the works in safe and secure way, to avoid contaminating the environment and exposing the public, and particularly the Tenants and their family to sewage water.
4. Disconnecting existing residence gravity sewer and installing new section of sewer to reconnect that existing line to the new septic tank.
5. Pumping and disposing of raw domestic sewage, septage sludge and scum at existing septic tank, prior to undertake next step. This implies that sewer service shall be temporarily interrupted at the House, to prevent any sewage spillage in the trench or in the environment.
6. Demolishing or removing and disposing of the existing septic
7. Public and private utility locates are to be provided by the contractor
8. Providing and installing the new septic tank, sanitary line and leaching bed in accordance with the OBC.
9. Supplying and installing CSA certified septic tanks and pump tanks, of an appropriate size, in the location, configuration, and elevation shown in the design drawing (Appendix A). A more detailed site plan for each location will be available at contract award
10. Supplying and installing access risers above all tank access openings for maintenance purposes. The access risers shall extend 10 cm above proposed finished grade and shall be outfitted with watertight, childproof access lids.
11. Providing and installing an effluent filter, as per OBC specifications, within the outlet baffle of the septic tank.
12. Before completion of work, Contractor is to collect all manufacturer's guarantees and warranties. Both

Brookfield Global Integrated Solutions (Operator) and Government of Canada will be listed on all guarantees and warranties.

13. Contractor is fully responsible for coordinating Electrical Safety Authority (ESA) inspection, meeting all their requirements, correcting any defective works as directed by ESA, and submitting electronic copy of all ESA site specific reports and correspondence to Parks Canada. Cost for such, including any corrective measures, retesting and additional inspection, shall be included in the tender quote.
14. The Contractor must also supply a sample of the sand fill, filter sand and septic stone from the source pit to ensure adherence to the OBC specifications
15. PCA is to proceed with a total of two inspections and summarized as follows:
 - a) Infiltration Bed Inspection, to review placement of imported materials, distribution piping setting (no. of rows, length, spacing, interconnection, distribution box and/or piping), gravity sewers and/or forcemain alignment and depth.
 - b) Final Grading Inspection, to review final grading, surface reinstatement, seeding, and to verify mechanical operation of pumping systems.
16. Providing and installing simplex submersible effluent pump (Little Giant WS30M, 1/3 HP Effluent Pump) on block within the pump tank with quick disconnect located beneath access lid for maintenance purposes.
17. Providing and installing a float tree and high-level alarm float (at 75% full) securely within the pump chamber at 9992 YDL.
18. Preparing drainage swales adjacent to leaching bed and tanks in accordance with the contract drawings.
19. Grading leaching bed and tank area in accordance with the design
20. Supplying, installing, wiring, connecting and testing all electrical equipment required to complete the system
21. Placing 100mm of good quality topsoil over leaching bed area.
22. Hydroseeding the leaching bed area and tank area
23. Notifying PCA a minimum of 48 hours before an inspection.
24. Construct, test and commission septic system as per the On-site Sewage System Layout Plan drawn by WSP Canada and approved by Parks Canada Agency

5.0 RESPONSIBILITY AND GENERAL REQUIREMENTS

1. On award of contract submit bar chart construction schedule for work, indicating anticipated progress stages within time of completion. When schedule has been reviewed by Parks Canada Project Authority, take necessary measures to complete work within scheduled time. Do not change schedule without notifying Parks Canada Project Authority.
2. Warrantee all work for twelve (12) months from date of acceptance.
3. Resource Allocation: The Contractor is responsible for providing the labour and resources to fulfill the terms of the SOW to a satisfactory level of performance. This would include the necessary qualified personnel, management, supervision, materials, tools, equipment, and other incidentals.
4. Working Hours: As these are tenanted properties, it is expected that the Contractors work within regular working hours 08:00-17:00. They must indicate which dates and times they intend to be onsite in order to avoid disturbing the tenants.
6. Permits: The Contractor is responsible for making the necessary arrangements for notifications and permits as required prior to site activities.

7. Quality Assurance and Quality Control: The Contractor is expected to demonstrate that adequate measures will and have been taken to ensure good quality assurance and quality control (QA/QC) procedures for all aspects of the project. The Contractor will use proven protocols
8. The Contractor is responsible for the security of its equipment and materials during and after working hours. Parks Canada is not liable for any vandalism, theft or loss.
9. Regulations: The Contractor must carry out the work in accordance with the most recent versions of provincial and federal requirements including directives, acts and regulations relevant to this project. In the event of a conflict between acts and regulations, the more stringent one is to be observed.
10. Parks Canada may at times accompany or conduct site visits.
11. Contractor must submit the following according to the schedule:
 - a) Site Specific Healthy and Safety Plan (Refer to 6.0 HEALTH AND SAFETY PLAN)**
 - b) WSIB Clearance Certificate: The Contractor conducting the fieldwork must submit a valid WSIB Clearance Certificate and a copy of the well license before conducting any work**
 - c) Progress Communications: The Contractor is expected to provide the following details,**
 - i) Work plan and material being used at each well, work schedules**
 - ii) A summary of the changes/deviations from the original proposal**

6.0 HEALTH AND SAFETY PLAN

1. Health and Safety Plan must include:
 - a. Results of site-specific safety hazard assessment.
 - b. Results of safety and health risk or hazard analysis for site tasks and operations found in work plan.
 - c. Measures and controls to be implemented to address identified safety hazards and risks.
 - d. Provide an Emergency Response Plan addressing standard operating procedures specific to the project site to be implemented during emergency situations
 - e. Contractor's and Sub-contractors' Safety Communication Plan.
 - f. Submit names of personnel and alternates responsible for site safety and health.
 - g. For emergency purposes, as a minimum, it must contain:
 - i. Local fire, police, and ambulance contact numbers (especially if not 9-1-1);
 - ii. Direction to the nearest hospital
 - iii. Local regulatory reporting requirements in the event of personal injury; and
 - iv. Client contact name and number.
2. The Contractor is obliged to comply with applicable statutory requirements and industry standards.
3. The Contractor is to be aware of and accepts the appropriate health and safety jurisdiction.
4. The Contractors shall comply with all applicable workers' compensation legislation.
5. Parks Canada reserves the right to stop work on the contract if, in the opinion of Parks Canada, the work is not being performed safely by the Contractor, or the work is being performed in a manner that is contrary to the requirements of applicable safety legislation.

7.0 ENVIRONMENTAL PROTECTION

1. Control emissions from equipment to local authorities' emission requirements and provincial and federal regulations.
2. "Environmentally Friendly" products should be used wherever possible.
3. Do not dispose of waste or volatile materials into waterways, storm or sanitary sewers.
4. Do not pump water containing suspended materials into waterways, storm or sanitary sewers.

5. Prevent extraneous materials, including cement, concrete, grout, asphalt, oil, fuel from contaminating air or water during removal and application.
6. Cover, or wet down, dry materials and/or rubbish to prevent blowing dust and debris.
7. No construction material or otherwise contaminated run-off is to enter the groundwater system during or as a result of the scheduled work.
8. An emergency spill kit will be on-site and readily available during all operational hours
9. Spills and Emergency Notification: If the Contractor discovers conditions that pose an immediate significant threat to human health or the environment, or if The Contractor is made aware of any spills, The Contractor is to be immediately undertake corrective actions and notify the Parks Canada Project Authority immediately. Further information on dangerous goods emergency cleanup and precautions including a list of companies performing this work can be obtained from the Transport Canada 24-hour number (613) 996-6666 collect.

8.0 PARKS CANADA ENVIRONMENTAL IMPACT ANALYSIS CONSIDERATIONS

1. Parks Canada is completing an archaeological impact analysis (AIA) at 9992 YDL, which will be available at contract award.
2. Parks Canada is completing an Basic Impact Assessment (BIA) at both 9992 YDL and 4715 YDL, which will be available at contract award.
3. If archaeological features were found on site, mitigation measures must be taken into consideration according to the AIA.
4. If nesting animals were found on site, mitigation measures must be taken into consideration according to the BIA.
5. Should historical objects and archeological finds be uncovered during the work, stop work immediately and notify the Parks Canada Project Authority. Do not resume work until such time as directed by the Parks Canada Project Authority

9.0 OTHER CONSIDERATIONS

1. 24-hour notification is required for each work day as the work site is a tenanted property
2. The Contractor must assume responsibility for any accident or damage caused by its employees or equipment to Parks Canada property.

10.0 ADDITIONAL INFO

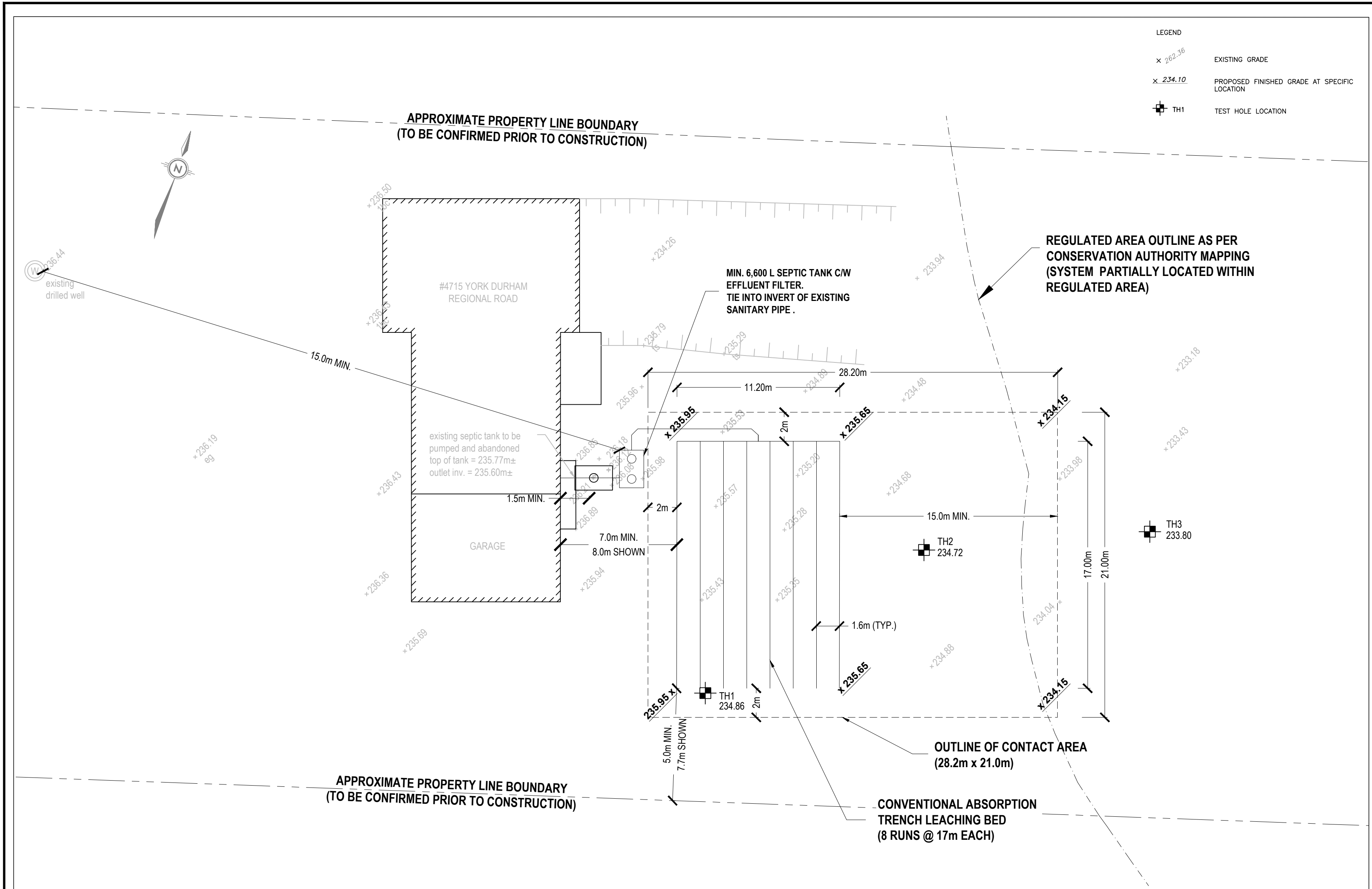
4715 YDL

Numbers of Bedroom	4
Numbers of washroom	3
Floor space	2000 sq ft
Percolation time	35-50 min/cm

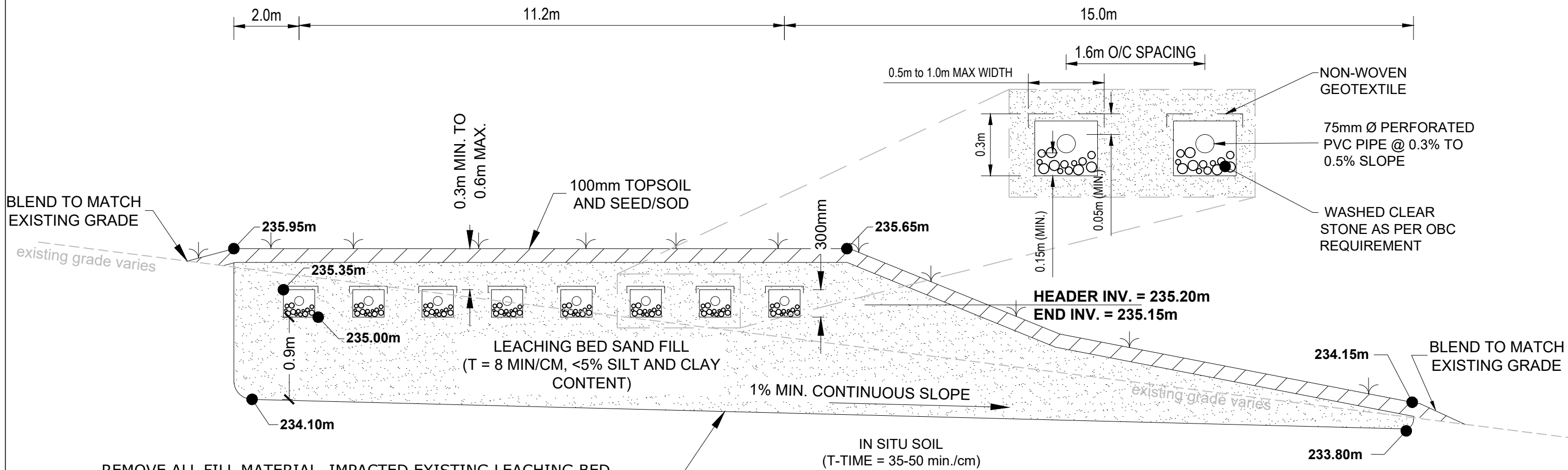
9992 YDL

Numbers of Bedroom	3
Numbers of washroom	1

Floor space	1200 sq ft
Percolation time	35-50 min/cm

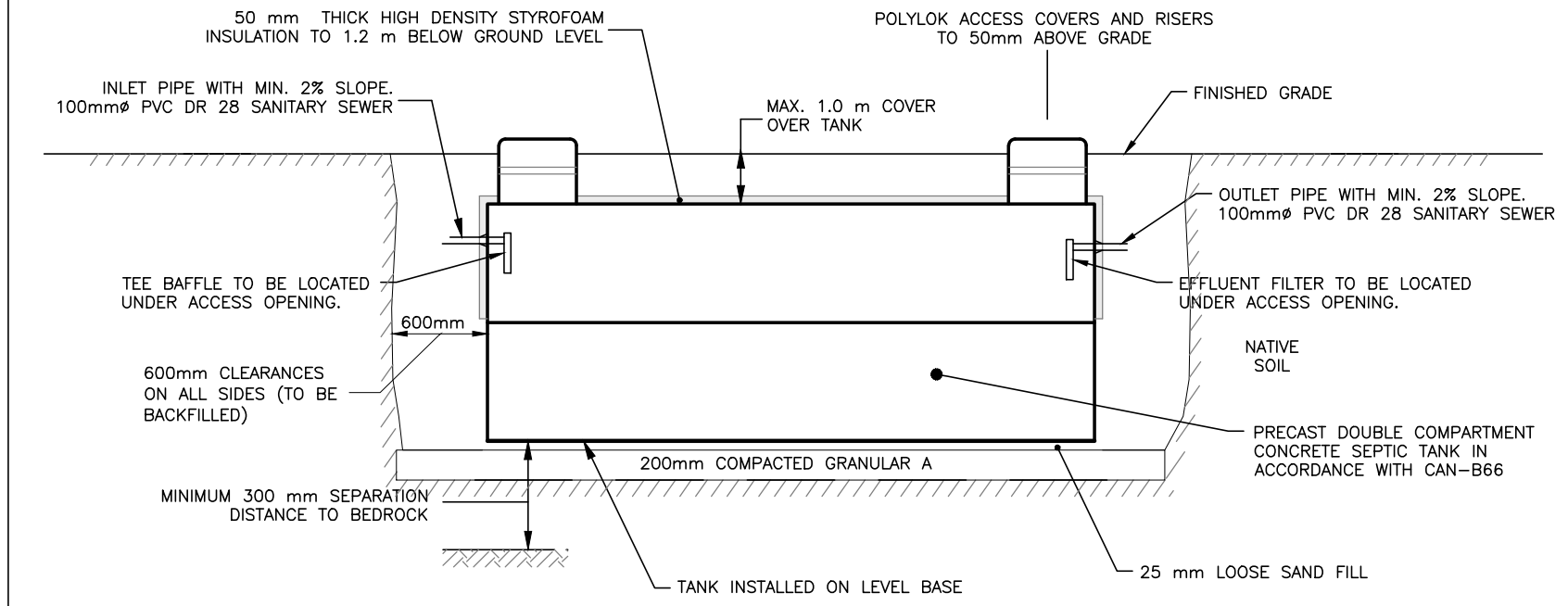


THE GRADES AND LOCATIONS OF STRUCTURES AND FACILITIES ON THIS PLAN WERE DESIGNED ON THE BASIS OF SURVEY DATA COLLECTED BY WSP ALONG WITH DURHAM



TYPICAL CROSS SECTION OF LEACHING BED (4715 YDL)

N.T.S.

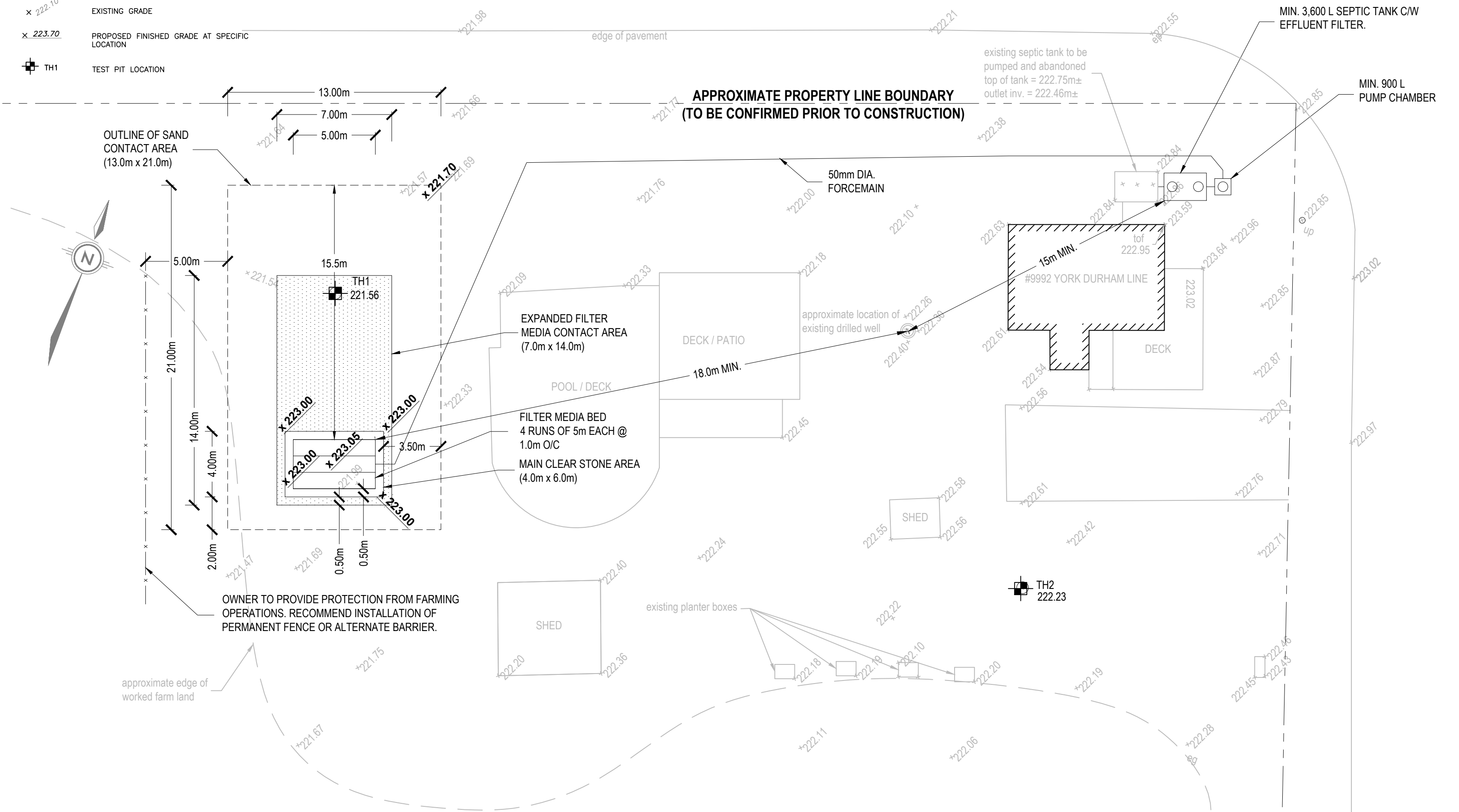


TYPICAL SEPTIC TANK DETAIL (4715 YDL)

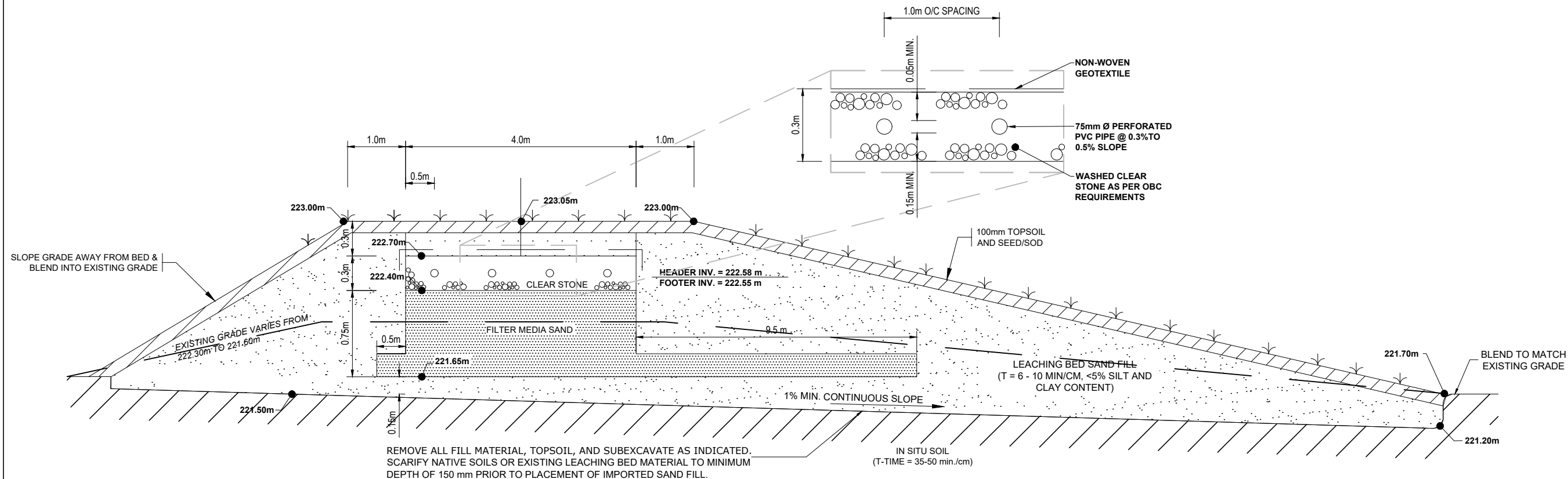
N.T.S.

LEGEND

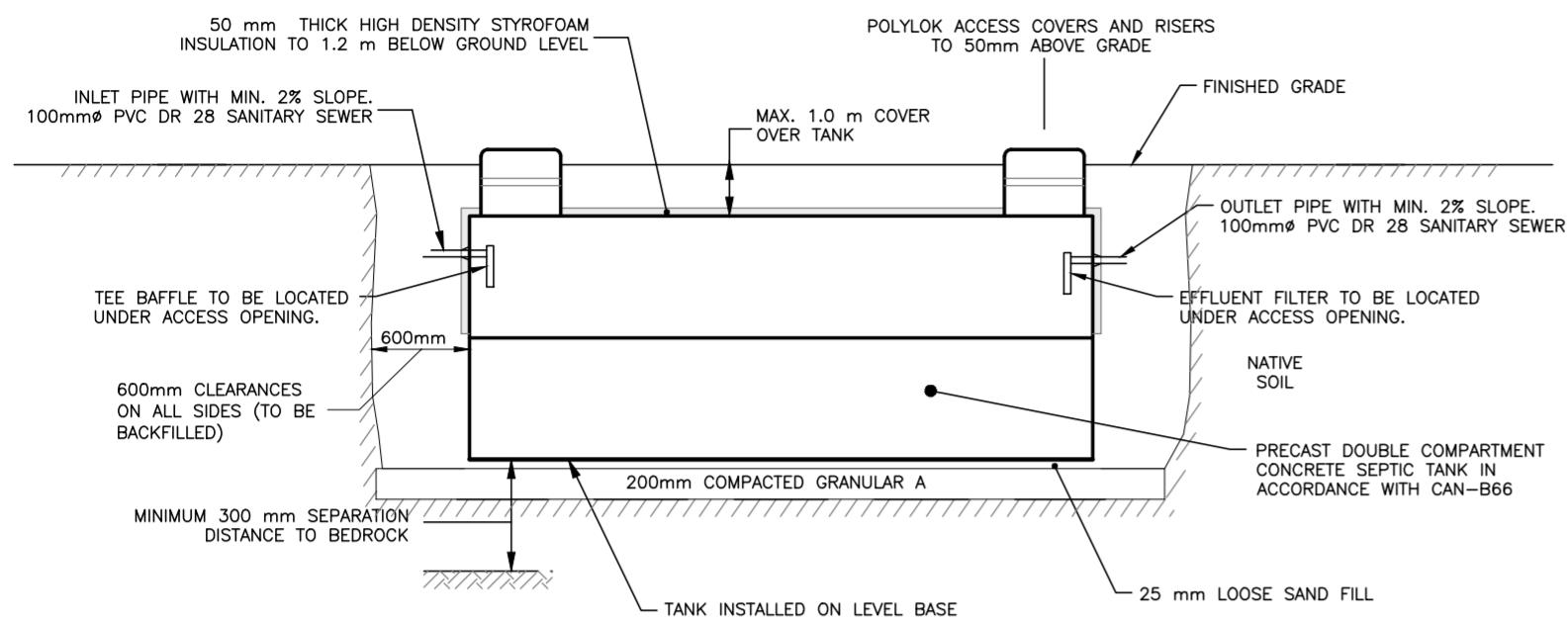
- × 222.10 EXISTING GRADE
- × 223.70 PROPOSED FINISHED GRADE AT SPECIFIC LOCATION
- TH1 TEST PIT LOCATION



9992 YDL Site Plan

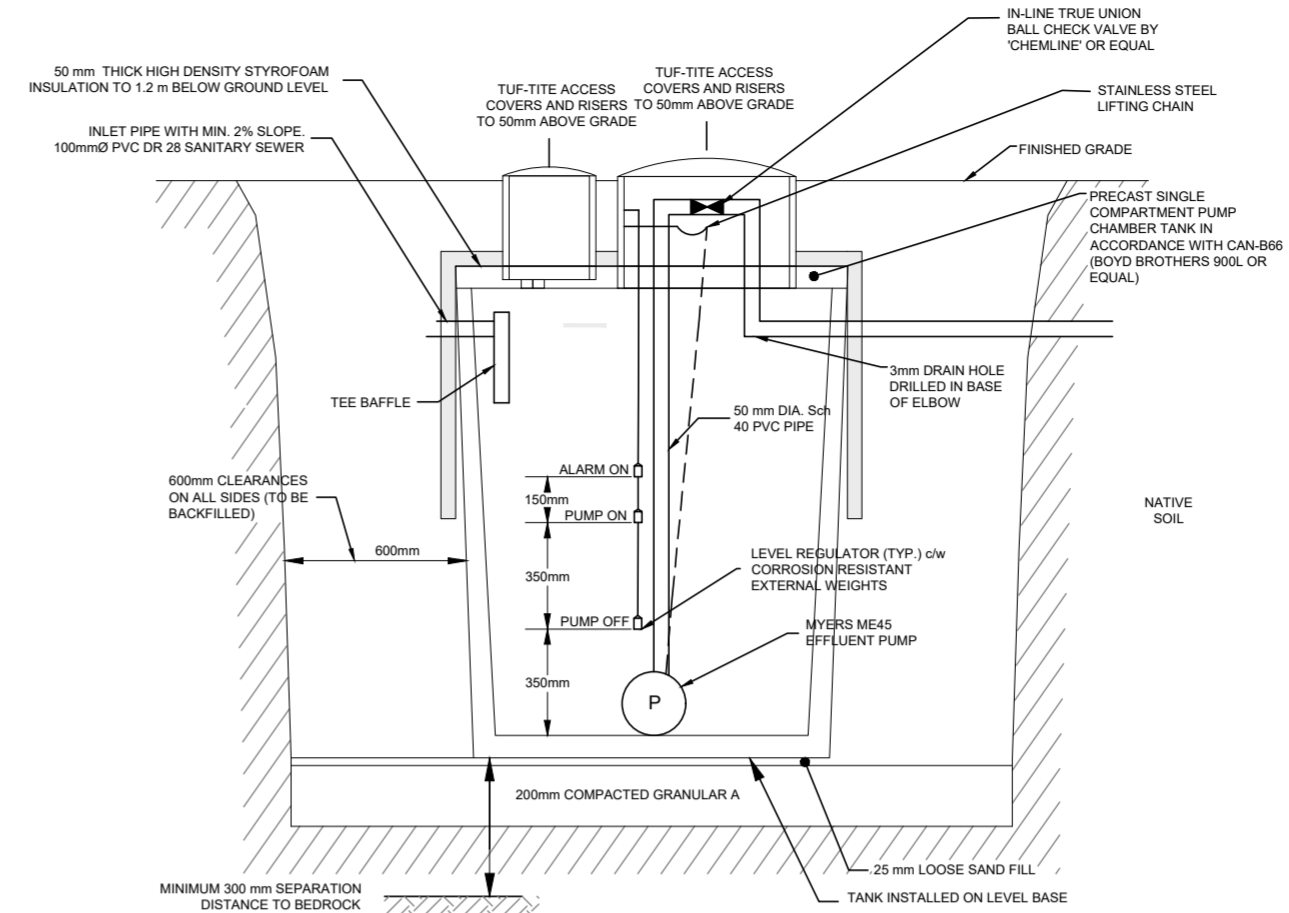


TYPICAL CROSS SECTION OF LEACHING BED (9992 YDL)
N.T.S.



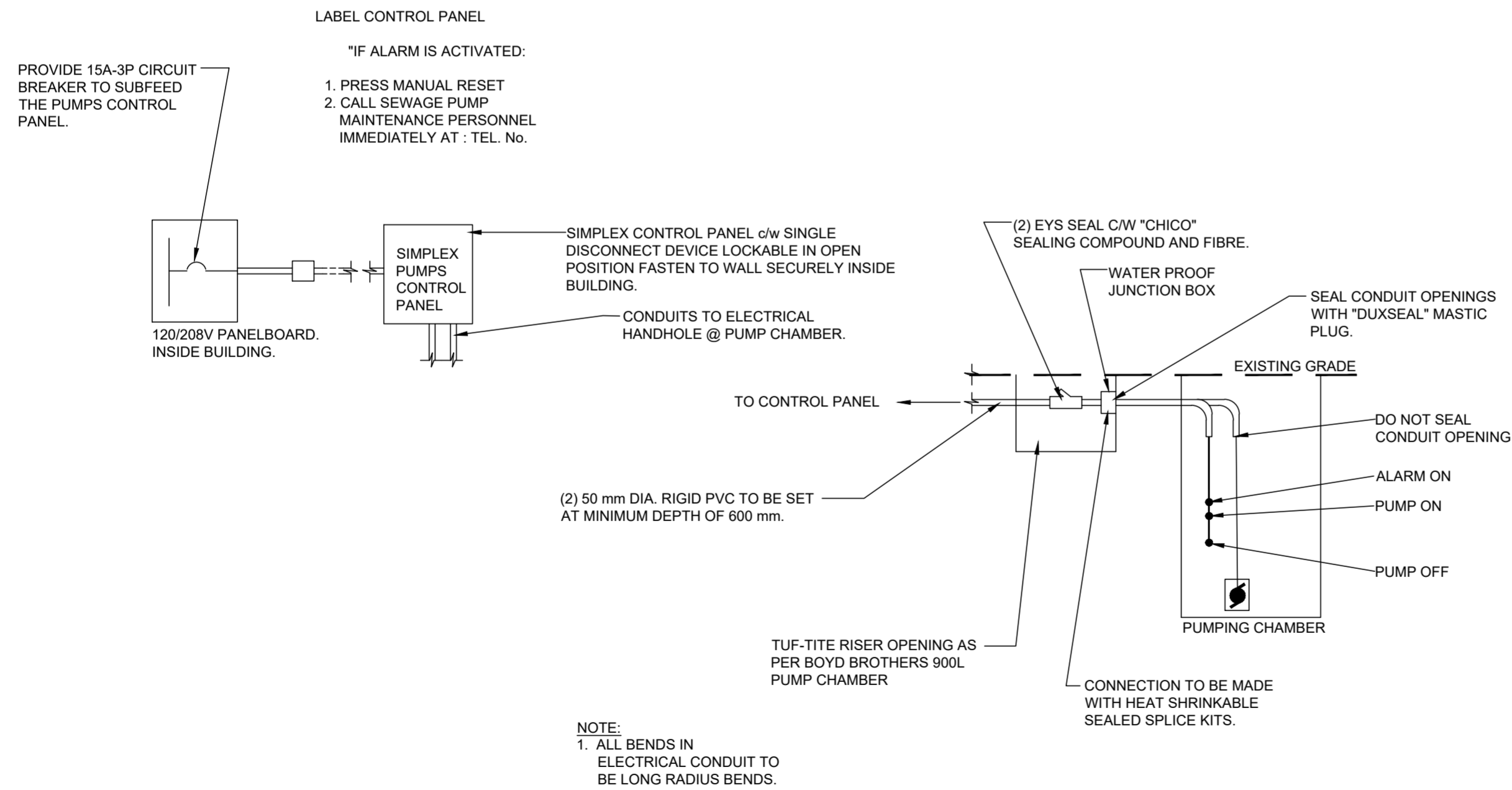
TYPICAL SEPTIC TANK DETAIL (9992 YDL)

N.T.S.



TYPICAL PUMP CHAMBER DETAIL (9992 YDL)

N.T.S.



PUMP POWER DISTRIBUTION DIAGRAM (9992 YDL)

SCALE: N.T.S.