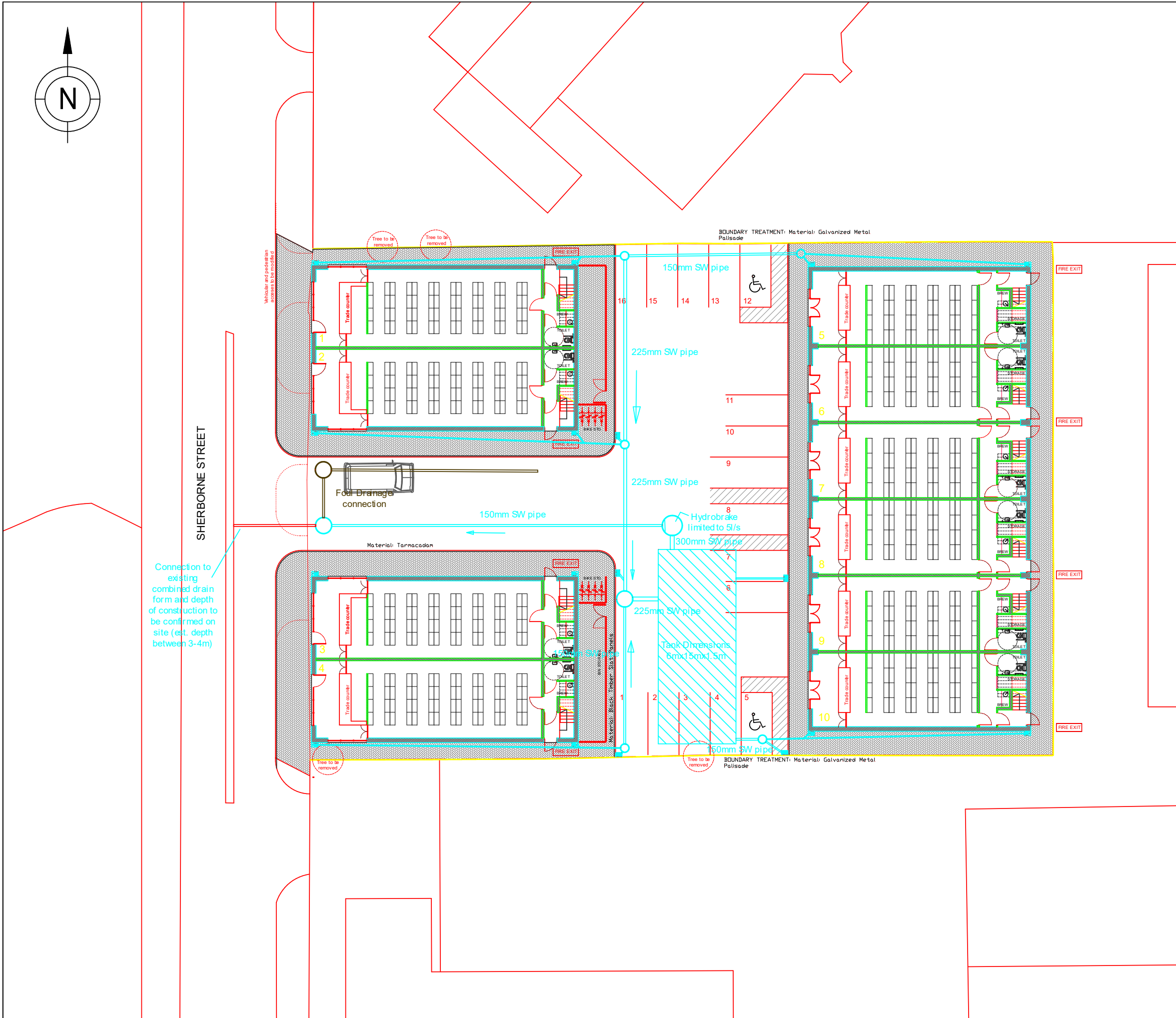




KEY

DRAINAGE NOTES

1. This drawing shall be read in conjunction with all other relevant drawings.
2. Any ambiguities, omissions and errors on drawings, shall be brought to the architect's attention immediately.
3. The Contractor shall confirm the location and level of existing drainage affairs prior to commencement of the drainage works.
4. Exact locations of proposed manholes and inspection chambers to be determined on site.
5. All pipes built into the manhole inverts shall be installed with sufficient levels. Unless shown otherwise, connections to road gullies shall be in 150mm nominal bore. Connections to other terminals/fittings shall have 150mm nominal bore pipe. Unless shown otherwise.
6. Cover levels shown are based upon a datum and shall be adjusted and confirmed on site by the Contractor.
7. The Contractor shall control accurate line and level of pipe laying by use of an optical level.
8. The Contractor shall protect the pipelining from damage by site traffic during construction.
9. Locations of pipework and fittings associated with the surface drainage shall be detailed by the Architect and Engineer following manufacturer's recommendations.
10. All drains passing through walls or foundations to have 60mm long rockpipes either side with concrete surround and well joint at coupling.
11. All SVP and sub stack connections to have sealed access covers for rodding and clearing.
12. Pipes with less than 120mm cover from finished public road level shall be protected with 150mm GEN 10/1 concrete bed and surround. Flexible joints shall be maintained at 5 metre centres on pipe joints with compressible sheet 15mm thick.
13. Trenches in highways and car parking areas shall be backfilled with Type 1 granular subbase.
14. Soft spots in the trench formation shall be removed and replaced with granular bedding unless instructed otherwise.
15. Road gullies shall be constructed using 750mm deep x 375mm diameter gully pot, surrounded by 150mm bed base GEN 10/1 concrete, with rubber gully and channel sloper.
16. Gully covers shall be Grade C 250 cast iron hinged ductile iron to BS EN 124 black coated.
17. Unless noted otherwise manhole covers shall be ductile iron to BS EN 124 black coated with 600 x 600 square opening as follows:-
Highways - Grade D 400
Car Parks - Grade C 250
Landscaped - Grade B 125
18. Connections in pipes between manholes and pits shall be formed by using purpose made junction fittings. Bend fittings shall be provided where appropriate to direct the flow into them in runs.
19. The Contractor shall confirm the location of all existing statutory undertakers apparatus and service connections by trial pitting prior to opening up for the work.

Materials

1. Protection to drains and gully connections may be concrete bed and surround between cover depths of 450mm to 1.2m.
2. All pipes and joints to use in drains shall comply with the manufacturer's requirements.

Thermoplastic Pipes and Fittings

3. Thermoplastic pipes, joints and fittings for gravity sewers shall comply with the relevant provisions of BS EN 14014, BS EN 1952 and BS EN 12056-4.
4. Thermoplastic structural wall sewer pipes shall comply with the relevant provisions of BS EN 13476-1, 2 and 3 as well as W 154-S-01. Pipes shall be BS 1 kite mark or have equivalent third party certification.

Pipe bedding and backfill

5. All bedding and backfilling of underground pipes shall be in accordance with HA 40/0 (DMRB).
6. Where pipes pass through a wall or foundations of a building, they should be protected by a lining or sleeve.

Shallow drains

7. Where there is a risk of damage, pipes laid at less than 600mm depth (not under a road) should be protected by use of a paving slab or similar. A minimum 75mm cushioning layer of granular material must be laid between any slab and the crown of the pipe.

Pipes laid under roads

8. The minimum cover under roads should be 1.2m from the top of the pipe. Where this is less than 1.2m additional protection is required i.e. concrete encasement.

Proposed SW Drainage
Proposed Foul Drainage

Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.



Client: Denhill Radnor Ltd			
Site: Sherbourne Street			
Title: Surface Water Drainage Strategy			
Job No: FRA22 1081	Scale (See Scale Bar) NTS	Figure: 4	Revised:
Drawn By: AC	Checked By: MJ	Drawn: June 2022	