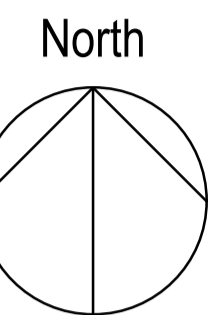


SEE MAIN DETAIL FOR CONTINUATION

DETAIL A

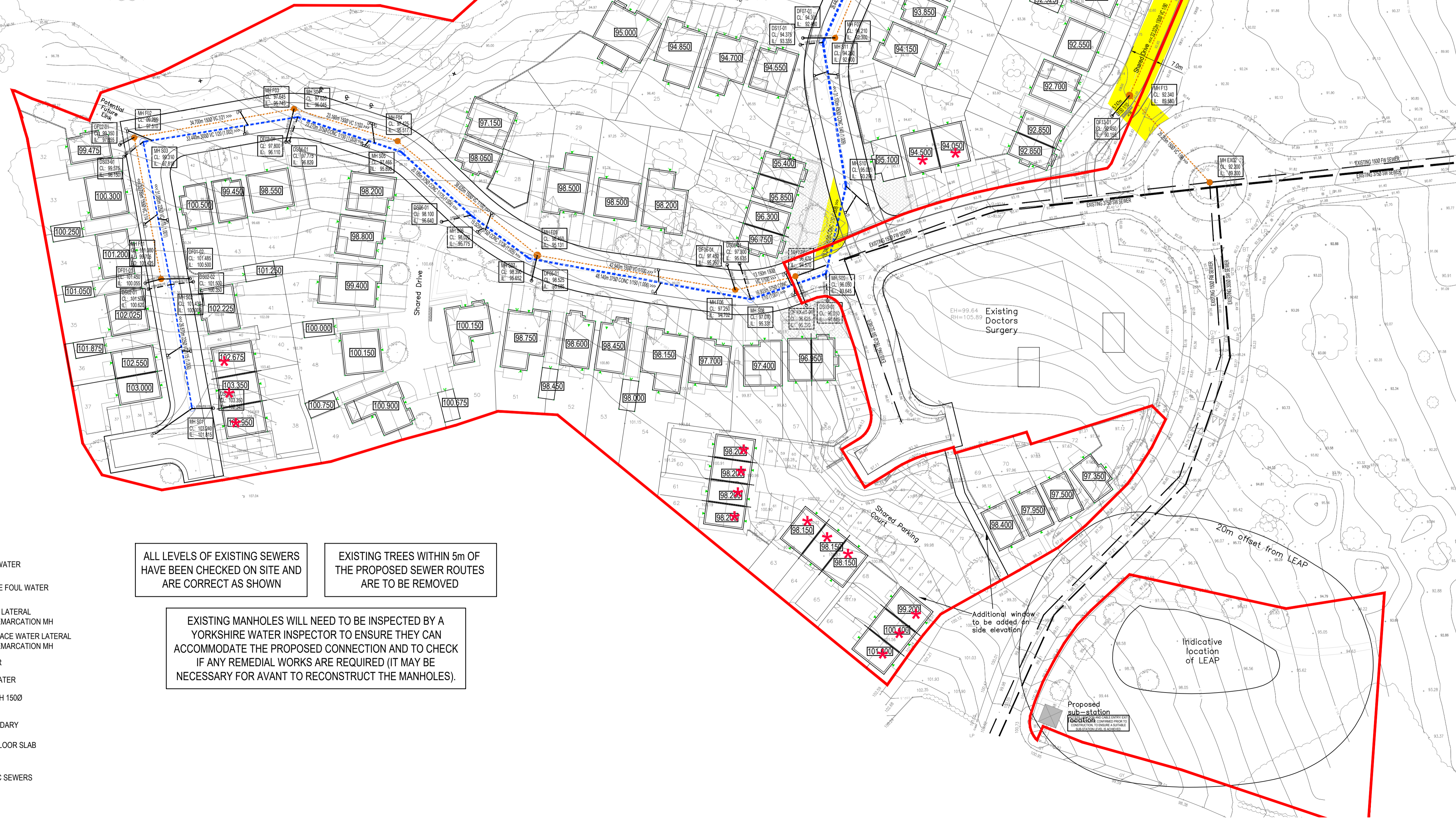
EXISTING TREES & HEDGES WITHIN 5m OF THE PROPOSED SEWER ROUTE ARE TO BE REMOVED

FOR CONTINUATION
SEE DETAIL A



General Notes

- All adoptable sewer works and material to be in accordance with 'Sewers for Adoption' 6th Edition, the relevant British/European and Yorkshire Water's standards/requirements/addendum and Kitemark.
- Manhole covers shall have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
- Yorkshire Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the local authority, land drainage section with regard to the disposal of the filter drain/land drainage run-off.
- Cover slabs must carry the BSI Kitemark will be rejected by Yorkshire Water's inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA) 'Technical Bulletin' issued autumn 2004 for Kitemarked cover slab opening sizes.
- Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are necessary.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers must have 5 metres clearance from trees and hedges (please also refer to figure 2.3 on page 33 in 'Sewers for Adoption' 6th Edition for restrictions on tree planting adjacent to sewers).
- Sewers to be laid in Class 'S' bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in non-vehicular access areas) then a concrete slab should be provided above granular bed and surround.
- Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
- The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
- Yorkshire Water policy is not to accept Type 'C' brick manholes and 100mm dia. manhole rings. Instead it is preferred that you use a Type 'S' manhole with 1200mm dia. or 1500mm dia rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m.
- Adoptable plastic cover pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS EN 13476). Adoptable plastic sewer to be laid in maximum 3 meter lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would prefer clayware channel sections in manholes. We have found that plastic channels are difficult to set in concrete because they float and a satisfactory finish can not be obtained on the bedding.



- ADOPTABLE DRAINAGE KEY:**
- PROPOSED SURFACE WATER SEWER/MANHOLE
 - PROPOSED ADOPTABLE FOUL WATER SEWER/MANHOLE
 - NON ADOPTABLE FOUL LATERAL CONNECTION FROM DEMARCATION MH
 - NON ADOPTABLE SURFACE WATER LATERAL CONNECTION FROM DEMARCATION MH
 - EXISTING FOUL WATER
 - EXISTING SURFACE WATER
 - PROPOSED GULLY WITH 1500 CONNECTION PIPE
 - PROPOSED S104 BOUNDARY
 - PROPOSED GROUND FLOOR SLAB LEVELS
 - EASEMENT FOR PUBLIC SEWERS

ALL LEVELS OF EXISTING SEWERS HAVE BEEN CHECKED ON SITE AND ARE CORRECT AS SHOWN

EXISTING TREES WITHIN 5m OF THE PROPOSED SEWER ROUTES ARE TO BE REMOVED

EXISTING MANHOLES WILL NEED TO BE INSPECTED BY A YORKSHIRE WATER INSPECTOR TO ENSURE THEY CAN ACCOMMODATE THE PROPOSED CONNECTION AND TO CHECK IF ANY REMEDIAL WORKS ARE REQUIRED (IT MAY BE NECESSARY FOR AVANT TO RECONSTRUCT THE MANHOLES).

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