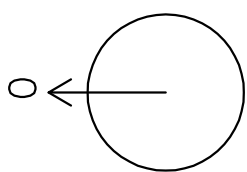
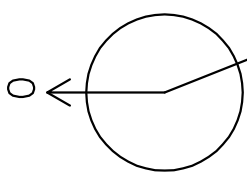
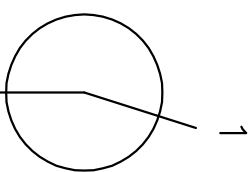
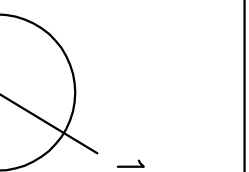
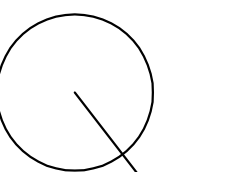


# MANHOLE SCHEDULE

Sheet 1 of 1

| Manhole Number                                                                          | Cover Level     | Connections                                                                         | Pipe |         |                 | Manhole Size     | Types                                     |                                |
|-----------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|------|---------|-----------------|------------------|-------------------------------------------|--------------------------------|
|                                                                                         |                 |                                                                                     | Code | Inverts | Diams Inv--soff |                  | Manhole                                   | Cover                          |
| Coordinates                                                                             | Depth To Soffit |                                                                                     |      |         |                 |                  |                                           |                                |
| S1                                                                                      | 45.565<br>1.340 |  |      |         |                 | 1200             | TYPE B1/E                                 | 600x600<br>D400                |
| E. 1041.760<br>N. 987.880                                                               |                 |                                                                                     | 0    | 1.000   | 44.000          | 225              |                                           |                                |
| S2                                                                                      | 45.438<br>1.343 |  | 1    | 1.000   | 43.870          | 225              |                                           |                                |
| E. 1033.556<br>N. 986.322<br>COORDINATE IS APPROX ONLY POSITION TO BE CONFIRMED ON SITE |                 |                                                                                     |      |         |                 | 1200<br>x<br>750 | ACCESS POINT<br>SEE DWG. STE-17--08-12    | 600x600<br>D400                |
| S3                                                                                      | 45.250<br>1.491 |   | 1    | 1.001   | 43.459          | 1200<br>x<br>600 |                                           |                                |
| E. 1016.126<br>N. 989.769<br>COORDINATE IS APPROX ONLY POSITION TO BE CONFIRMED ON SITE |                 |                                                                                     |      |         |                 | 1200<br>x<br>750 | ACCESS POINT<br>SEE DWG. STE-17--08-12    | 600x600<br>D400                |
| S4                                                                                      | 45.070<br>1.555 |    | 1    | 1.002   | 43.415          | 300              |                                           |                                |
| CONTROL MH                                                                              |                 |                                                                                     |      |         |                 |                  |                                           |                                |
| E. 1005.313<br>N. 988.548                                                               |                 |                                                                                     | 0    | 1.003   | 43.365          | 150              | 2100<br>CONTROL<br>SEE DWG. STE-17--08-11 | DOUBLE TWIN<br>600x600<br>D400 |
| S5                                                                                      | 44.830<br>1.380 |    | 1    | 1.003   | 43.300          | 150              |                                           |                                |
| E. 1000.146<br>N. 984.560                                                               |                 |                                                                                     |      |         |                 | 1200             | TYPE B1/E                                 | 600x600<br>D400                |

| RISK ASSESSMENT - SIGNIFICANT RISKS THAT CANNOT BE DESIGNED OUT                                                                                                   |                     |  | SUGGESTED ACTION                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|-------------------------------------------------------------------------------------------------------------|
| RISK                                                                                                                                                              | LEVEL OF RISK (H/M) |  |                                                                                                             |
| DEEP EXCAVATIONS ASSOCIATED WITH DEEP DRAINAGE WORKS                                                                                                              | HIGH                |  | ENSURE ALL EXCAVATIONS HAVE ADEQUATE FRENCH SUPPORTS AND ARE FENCED OFF TO PROTECT FROM FALLS.              |
| HANDLING LARGE DIAMETER MANHOLE AND SOAKAWAY RINGS                                                                                                                | HIGH                |  | USE CORRECT LIFTING EQUIPMENT AND ENSURE OPERATIVES WEAR THE CORRECT PERSONAL PROTECTIVE EQUIPMENT.         |
| CONTACT WITH SERVICES/WORKING IN CONFINED SPACES                                                                                                                  | MEDIUM              |  | USE GAS DETECTOR/SBREATHING EQUIPMENT AND ENSURE OPERATIVES WEAR THE CORRECT PERSONAL PROTECTIVE EQUIPMENT. |
| NOISE FROM MACHINERY                                                                                                                                              | MEDIUM              |  | OPERATIVES TO WEAR THE CORRECT EAR PROTECTION.                                                              |
| EXCAVATIONS NEAR TO UTILITIES                                                                                                                                     | HIGH                |  | UTILITY MAPS TO BE INSPECTED AND APPARATUS LOCATED USING APPROPRIATE EQUIPMENT PRIOR TO EXCAVATION.         |
| EXCAVATIONS IN PUBLIC HIGHWAY                                                                                                                                     | HIGH                |  | ENSURE ALL EXCAVATIONS HAVE ADEQUATE FRENCH SUPPORTS AND ARE FENCED OFF TO PROTECT FROM FALLS.              |
|                                                                                                                                                                   |                     |  | ENSURE THE CORRECT SIGNAGE/TRAFFIC CONTROL IS USED.                                                         |
| IT IS ASSUMED THAT WORKS ASSOCIATED WITH THIS DESIGN WILL BE UNDERTAKEN BY A PERSON(S) WHO ARE COMPETENT AND HAVE THE REQUIRED LEVEL OF EXPERIENCE AND EXPERTISE. |                     |  |                                                                                                             |

### Sewers For Adoption Under a Section 104 Agreement

1. All adopted sewer works and material to be in accordance with the Sewers for Adoption 6th Edition, The Relevant British European and Yorkshire Water's Electrical Requirements and Addendum to the mechanical and electrical specification and Kitemarked.
2. Manhole covers must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with a 150mm deep frames in highways.
3. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.

5. Cover slabs must carry the BS1 kitemark product is registered by Yorkshire Water. Where the clear opening of the BS1 kitemark product is different to that of the cover and frame, a leading bearing slab should be fitted above the cover slab covering the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to CP54-Technical bulletin issued Autumn 2004 for kitemarked cover slab opening sizes.

7. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.

also refer to Figure 2.3, page 33 in Sewers for Adoption 6th Edition for restrictions on tree planting adjacent to sewers)

9. Sewers to be laid in Class "S" bedding (150mm granular bed & surround.) Where depth of cover to the top of the sewer is less than 1.2m in Highway

and verges (less than 900mm in non vehicular areas) then a concrete slab should be provided above the granular bed and surround.

need to be increased an increment to accommodate the connections and bends,

12. Yorkshire Water policy is not to accept Type "C" brick manholes or 1050mm dia manhole rings. Instead it is preferred that you use a Type "B" manhole with 1200mm dia or 1500mm dia rings with the opening sited over the channel where depth of cover to pipe soffit is 1.0-1.5m

13. All 150mm & 225mm dia pipes to be day to comply with the relevant requirements of BS EN 286-1: 1991.

All pipes 300mm dia and above to be concrete pipes to comply with the relevant provisions of BS 5911. Strength class 120 to EN 1916/BS 5911-1:2002

# Preliminary

| Rev | Details                                   | Date    | Dwn, Cnk |
|-----|-------------------------------------------|---------|----------|
| C   | Levels amended following redesign of road | 29-6-17 | AST      |
| B   | Amended following comments from VW        | 22-6-17 | AST      |
| A   | Amended following comments from VW        | 12-6-17 | AST      |

Low Cudworth Green  
Cudworth, Barnsley

## Manhole schedules

Dwg No. : STE/17/08/04 C

Date : 16-5-17

Scale : Not to scale