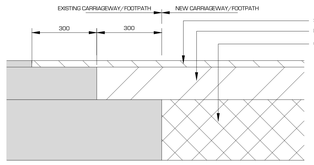



## ADOPTABLE ROAD CONSTRUCTION

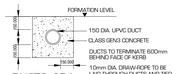
Scale 1:25

| CAPPING | MATERIAL | THICKNESS |
|---|---|---|
| CBR VALUE | IMPORTED GRANULAR FILL | SEE CLAUSE 10.3.2 |
| >5% | | NIL |
| >3% - 5% | | 275mm |
| <2% - 2% | | 525mm |



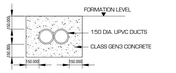

## FEATHERING IN DETAIL TO EXISTING ROAD

SCALE 1:10



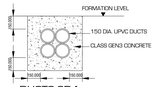

## DUCTS SD1

SCALE 1:25



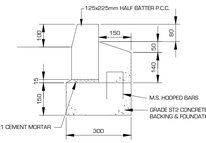

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SCALE 1:25



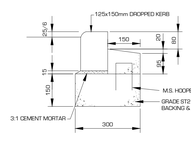

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SCALE 1:25



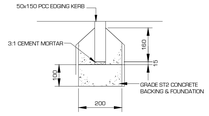

## KERB TYPE K1

SCALE 1:10



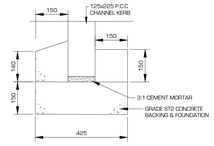

## KERB TYPE K2

SCALE 1:10



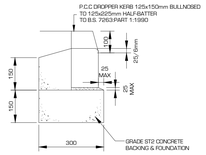

## KERB TYPE K4

SCALE 1:10



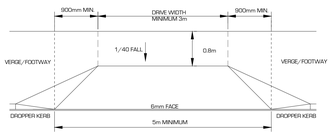

## KERB TYPE K5

SCALE 1:10



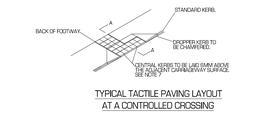

## KERB TYPE K6

SCALE 1:10

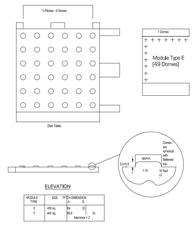


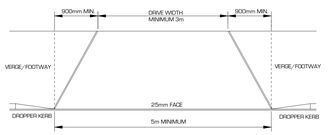

## TYPICAL PEDESTRIAN FOOTWAY CROSSING

SCALE 1:50



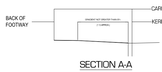

## TYPICAL TACTILE PAVING LAYOUT AT A CONTROLLED CROSSING




## TYPICAL VEHICULAR CROSSING

SCALE 1:50




## SECTION A-A




## FLUSH KERB DETAIL

NOTES

1. FOR LAYOUT REFER TO RWO DRAWING #####.
2. WHERE APPLICABLE FLAGS SHALL BE LAID ON 200mm THICK GRANULAR TYPE 1 SUB-BASE MATERIAL COMPACTED TO CLAUSE 802.
3. FLAGS SHALL BE LAID TO THE REQUIRED CROSSFALLS AND BEDDED ON 25mm THICK MORTAR BED DESIGNATION.
4. ALL JOINTS TO BE NARROW BUTT JOINTS APPROXIMATELY 3mm WIDE. A DRY 4:1 BUILDING SAND/CEMENT MORTAR TO BE WELL BRUSHED INTO JOINTS AND ANY SURFACE MATERIAL REMOVED FROM FINISHED SURFACE.
5. JOINTS BETWEEN ADJACENT FLAGS TO BE FLUSH.
6. DOMES TO BE ALIGNED IN THE DIRECTION OF CROSSING.
7. NOTWITHSTANDING OTHER TOLERANCES IN THE SPECIFICATION THE FINISHED LEVEL OF THE FRONT FACE OF THE DROP KERB SHALL NOT BE LOWER NOR MORE THAN 6mm HIGHER THAN THE LEVEL OF THE ADJACENT CARRIAGEWAY.
8. E1 PINKERB TO PERIMETER OF TACTILE PAVING.

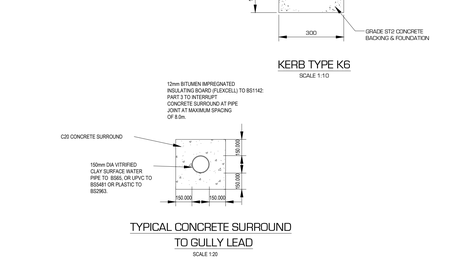






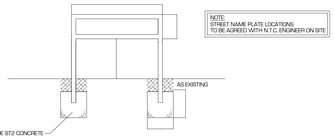
## ROAD GULLY DETAIL

SCALE 1:10




## SERVICES WITHIN THE FOOTPATH

SCALE 1:10



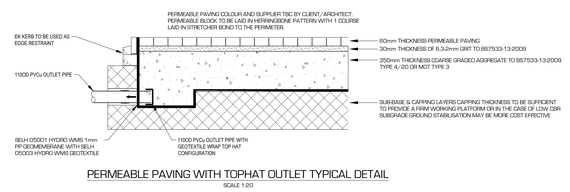

## STREET NAME PLATE FRAME

SCALE 1:25




## TYPICAL CONCRETE SURROUND TO GULLY LEAD

SCALE 1:20




## PERMEABLE PAVING WITH TOPHAT OUTLET TYPICAL DETAIL

SCALE 1:20

| Sieve size mm | Percentage mass by passing % |
|---|---|
| 80 | - |
| 63 | - |
| 40 | 100 |
| 31.5 | 98-100 |
| 20 | 90-99 |
| 10 | 25-70 |
| 5 | 0-15 |
| 2 | 0-5 |
| 1 | - |

Grading recommendations for sub-base material for permeable paving pavements (4/ 2O coarse aggregate).

## TABLE A.1 BS 7533-13:2009

| Sieve size mm | Percentage mass by passing % |
|---|---|
| 14 | 100 |
| 10 | 98-100 |
| 6.3 | 80-99 |
| 2 | 0-20 |
| 1 | 0-5 |

Grading for laying and jointing material (6.3mm coarse aggregate).

## TABLE A.2 BS 7533-13:2009

| CBR of subgrade | Adjustment of coarse graded material. |
|---|---|
| 1% | +300 |
| 2% | +175 |
| 3% | +125 |
| 4% | +100 |
| 5% | B) |
| 9% | B) |
| 10% | B) |
| 15% | B) |

Low subgrade CBR adjustment. A)Expert guidance should be sought in the case of pavements constructed over subgrades of CBR less than 2%. B)Use Table 10 for Thickness.

## TABLE 9 BS 7533-13:2009

**GENERAL SAFETY NOTES:**

1. WHERE THE BASE (ROAD BASE) HAS BEEN USED AS A TEMPORARY RUNNING SURFACE DURING THE CONTRACT IT SHALL BE THOROUGHLY CLEANED AND POWER WASHED AS NECESSARY. AFTER DRYING AND IMMEDIATELY BEFORE THE BINDER COURSE IS LAID A TACK COAT OF BITUMEN EMULSION CLASS A1-40 OR K1-40 TO BS434 SHALL BE APPLIED AT A RATE OF 0.35-0.55 LITRES/SQ METER.
2. ALL RADIUS KERBS WITH A RADIUS OF 12m OR LESS SHALL BE FORMED WITH PROPRIETARY RADIUS KERBS.

**HEALTH & SAFETY:**

1. CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.

ROADS & DRAINAGE

2. CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE.
3. THE TIME THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
4. CONNECTIONS TO EXISTING SEWERS TO BE MADE BY APPROVED CONTRACTOR ONLY.
5. CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS LEPTOSPIROSIS (WEILS DISEASE) AND RECOMMENDED PRECAUTIONS. ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
6. UNFINISHED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIERS.

**PIPES & CABLES**

7. CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
8. SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.

**EXCAVATION/FILL**

9. CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
10. CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
11. CONTRACTOR TO REFER TO GROUND INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.

**DESIGN NOTES:**

1. ALL WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
   - DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)
   - SPECIFICATION FOR HIGHWAY WORKS (SHW)
   - LOCAL AUTHORITY DESIGN GUIDE AND SPECIFICATION.
2. PRIOR TO COMMENCING WORKS THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE AS NECESSARY ANY STATUTORY UNDERTAKERS EQUIPMENT WITHIN THE NEW ACCESS AND DISCUSS REQUIREMENTS FOR LOWERING/DIVERSION AND PROTECTION WITH THE RELEVANT UNDERTAKER
3. ALL WORKS WITHIN THE PUBLIC HIGHWAY TO MEET LOCAL AUTHORITY REQUIREMENTS. CONTRACTOR TO APPLY FOR ROAD OPENING NOTICES ETC AS REQUIRED.
4. CBR VALUE NOT AVAILABLE. ROAD CONSTRUCTION DETAIL SUBJECT TO CONFIRMATION OF CBR VALUES. CONTRACTOR TO ALLOW FOR LAB TESTS TO BE UNDERTAKEN IN AGREEMENT WITH LOCAL AUTHORITY HIGHWAY ENGINEER PRIOR TO WORKS COMMENCING.
5. PROPOSED LEVELS HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY PROVIDED BY THE CLIENT.
6. PROPOSED DRAWING BASED ON THE LATEST ARCHITECTURAL LAYOUT PROVIDED BY THE CLIENT.
7. SLOPES GREATER THAN 1 IN 6 MAY REQUIRE STABILISATION. GEOTECHNICAL ENGINEER TO BE CONTACTED TO CONFIRM REQUIREMENTS

**SUBJECT TO LOCAL AUTHORITY APPROVAL**

| Date | Revisions | Drawn | Checked | Rev |
|---|---|---|---|---|
| 22.06.2023 | PERMEABLE PAVING DETAIL ADDED | AM | RWO | 2 |
| 20.03.2023 | FIRST ISSUE | AM | RWO | 1 |

Dwg Status: SCHEMATIC


NORTH EAST 0191 2589932
YORKSHIRE 0113 535 3500
CONSULTING ENGINEERS
WWW.RWO.GROUP
INFO@RWO.GROUP


Client: ORIGIN PLANNING SERVICES

Project: SIMONSIDE ARMS

Title: ROAD CONSTRUCTION DETAILS

| DO NOT SCALE | Scale @ A0: 1:100 | Drawn AM | Checked RWO | Date 20.03.2023 |
|---|---|---|---|---|
| Job No 22164 | | Dwg No D700 | | Rev 2 |