

IN COHESIVE (CLAY) MEASURES MAIN BACK FILL SELECTED EXCAVATED MATERIAL. COMPACTED IN LAYERS NOT EXCEEDING 225mm. IN COHESIVE SOILS TRENCHES UNDER ROADS AND HARD STANDINGS SHALL BE BACK FILLED WITH IMPORTED GRANULAR MATERIAL.

PIPE BEDDING DETAILS

CLASS S

**SCALE 1:20** 



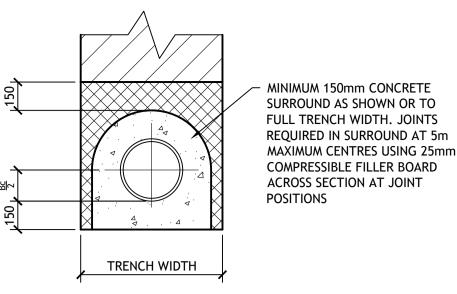
PIPE BEDDING MATERIAL SHALL CONSIST OF FREE-DRAINING, HARD, CLEAN, CHEMICALLY STABLE GRAVEL, CRUSHED STONE OR CRUSHED SLAG, GRADED IN ACCORDANCE WITH THE FOLLOWING TABLE. THE MATERIAL SHALL HAVE A COMPACTION FRACTION VALUE NOT EXCEEDING 0.2.

B.S. 410	PERCENTAGE BY MASS PASSING			SING
TEST SIEVE	TYPE A40	TYPE A20	TYPE A14	TYPE A10
63mm	100	-	-	-
37.5mm	85-100	100	-	-
20mm	0-25	85-100	100	-
14mm	-	-	85-100	100
10mm	0-5	0-25	0-50	85-100
5mm	-	0-5	0-10	0-25
2.36mm	-	-	-	0-5

THE BEDDING MATERIAL TYPE SHALL BE CHOSEN ACCORDING TO PIPE SIZE IN ACCORDANCE WITH THE FOLLOWING TABLE.

PIPE BEDDING MATERIAL				
NOMINAL PIPE SIZE mm	BEDDING MATERIAL			
LESS THAN 300	A10			
300 - 525	A14			

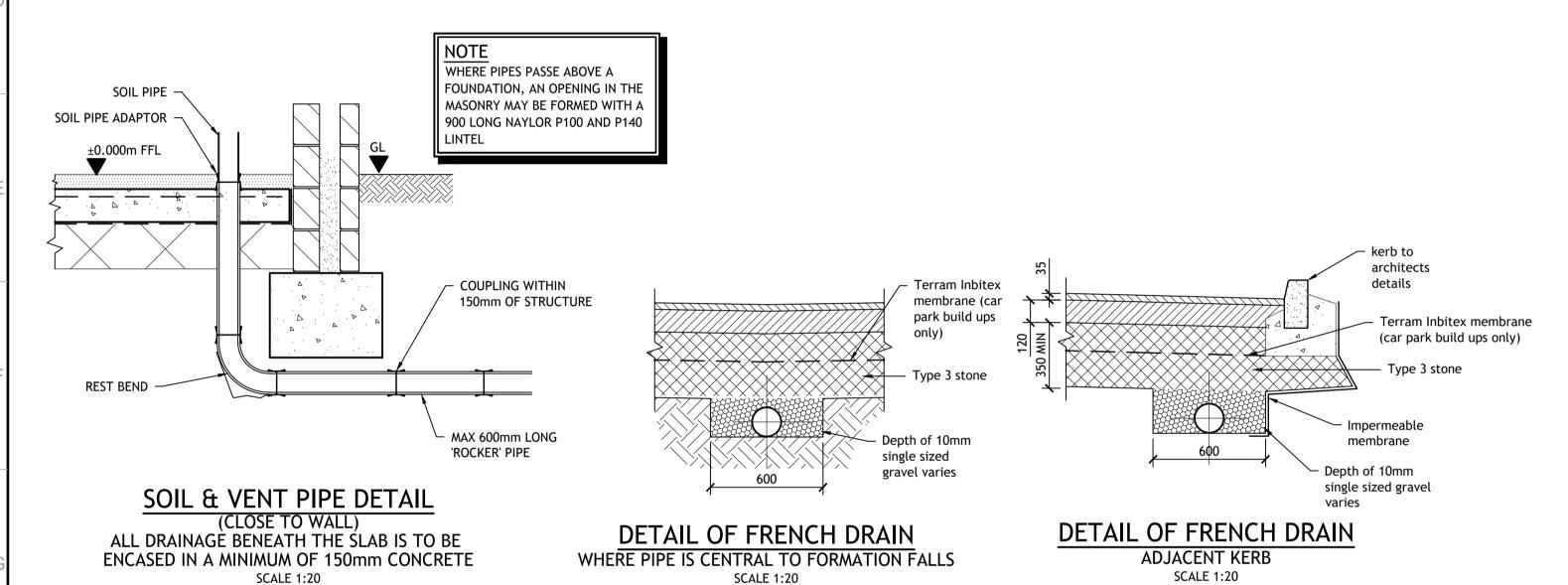
TRENCH WIDTHS				
MAXIMUM TRENCH WIDTHS				
PIPE Ø	WIDTH			
100	550			
150	600			
225	700			
300	750			
375	1050			

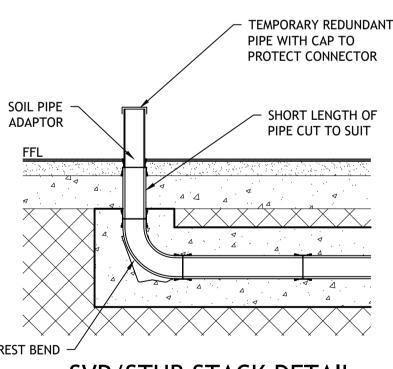


MAIN BACK FILL SELECTED EXCAVATED MATERIAL. COMPACTED IN LAYERS NOT EXCEEDING 225mm. IN COHESIVE SOILS TRENCHES UNDER ROADS AND HARD STANDINGS SHALL BE BACK FILLED WITH IMPORTED GRANULAR MATERIAL.

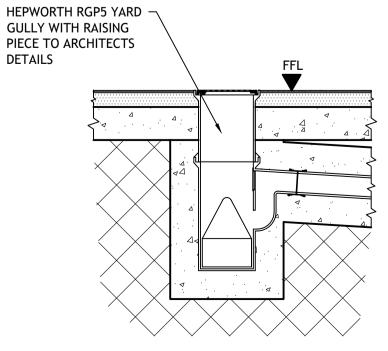


CONCRETE SURROUND DETAIL WHERE COVER LESS THAN 1.2m UNLESS AGREED OTHERWISE WITH BUILDING CONTROL



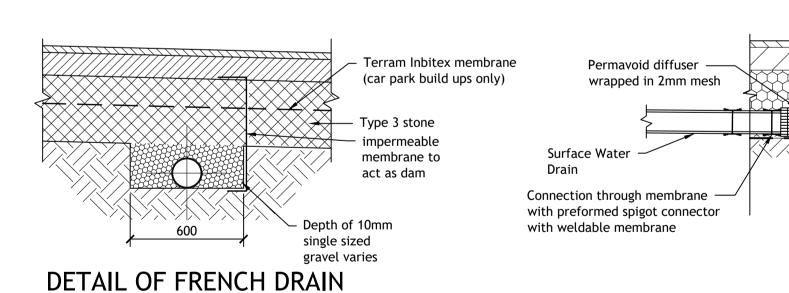


SVP/STUB STACK DETAIL



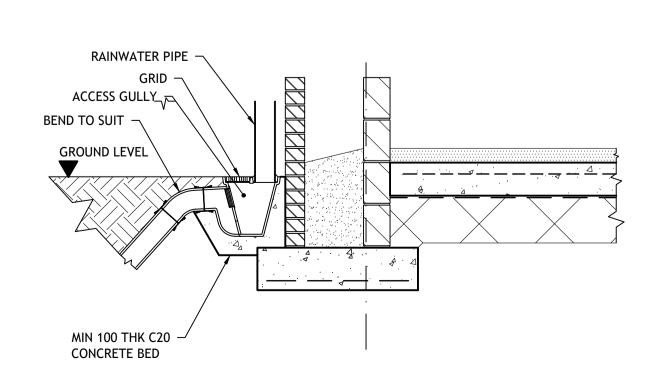
**DETAILS** 

FLOOR GULLY DETAIL **GULLY GRATING DETAIL TO BE** TAKEN FROM HARRIS PARTNERSHIP DRAWINGS **SCALE 1:20** 



TYPICAL PERMAVOID DIFFUSER DETAIL TO POROUS CAR PARK AREA

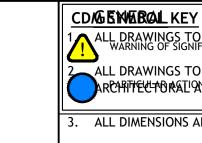
**SCALE 1:20** 



WHERE PIPE IS PART WAY DOWN FORMATION SLOPE

**SCALE 1:20** 

RAINWATER PIPE AND BACK INLET GULLY



ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION WARNING OF SIGNIFICANT RISK 2\_ ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE RELEVANT ARCHRITECTOR RETURNED SOURCE DIRACTOR ALL DIRACTOR ACTION

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 4. ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM.
- ALL DIMENSIONS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION

## DRAINAGE

- THIS DRAWING USES THE ARCHITECTURAL DRAWING AS A BACKGROUND. THE CONTRACTOR SHOULD USE ARCHITECTURAL DRAWINGS FOR SETTING OUT OF ALL POP-UPS AND ABOVE GROUND DRAINAGE POSITIONS.
- REFERENCE SHOULD BE MADE TO ALL OTHER DRAINAGE DRAWINGS PROVIDED BY SWF CONSULTING WHICH GIVES CONSTRUCTION
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE DRAINAGE SPECIFICATION PREPARED FOR THIS PROJECT.
- I. THE DESIGN OF THE PIPES HAS BEEN BASED ON THE FOLLOWING: a. 100Ø FOUL WATER PIPE: WAVIN OSMADRAIN b.150Ø OR LARGER FOUL WATER PIPE: WAVIN ULTRARIB c. 150Ø OR LARGER SURFACE WATER PIPE: WAVIN TWINWALL. ALTERNATIVE PRODUCTS MAY BE USED WITH PRIOR APPROVAL FROM SWF CONSULTING.
- THE EXACT LOCATION OF THE OUTFALL PIPE/MANHOLE IS TO BE CHECKED AND CONFIRMED TO SWF CONSULTING PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS.
- REFERENCE SHOULD BE MADE TO ANY CCTV SURVEY, SEWER RECORDS WHICH INDICATE THE EXISTING DRAINAGE SYSTEMS.
- ON COMPLETION OF THE CONTRACT, THE PIPES AND OIL SEPARATOR SHALL BE JET CLEANED TO REMOVE ANY SILT OR CONSTRUCTION DEBRIS AND A CCTV SURVEY SHOULD BE UNDERTAKEN.
- ONCE THE AS-BUILT SURVEY HAS BEEN COMPLETED A COPY OF THE SURVEY LOGS SHOULD BE ISSUED TO SWF CONSULTING TOGETHER WITH THE VIDEO FOOTAGE FOR THEIR COMMENT WITH DUPLICATE COPIES BEING ISSUED TO THE CDM CO-ORDINATOR FOR INCLUSION IN THE HEALTH & SAFETY FILES.
- COVER LEVELS ARE INDICATIVE AND MAY NEED TO BE ADJUSTED TO SUIT THE ACTUAL FINISHED LEVELS OF THE EXTERNAL AREAS.
- 10. GRADIENTS INDICATED ON PIPES ARE MINIMUM GRADIENTS REQUIRED. HOWEVER, MANHOLE INVERT LEVELS ARE TO TAKE PRECEDENCE OVER THESE GRADIENTS.
- 1. POSITIONS OF MANHOLES, GULLYS AND DRAINAGE ARE TO BE SET OUT BY THE CONTRACTOR TO AVOID WHITE LINING DELINEATING CAR PARKING AREAS, KERB LINES ETC.

THE ARCHITECTURAL BACKGROUNDS ARE A VISUAL REPRESENTATION OF THE PROPOSED BUILDING LAYOUT, BUT ARE NOT NECESSARILY DIMENSIONALLY ACCURATE AND THUS MAY NOT RELATE TO THE LOCATION OF THE STRUCTURAL MEMBERS

## **ABBREVIATIONS**

YARD GULLY

- COVER LEVEL FG - FLOOR GULLY - INVERT LEVEL RE - RODDING EYE SVP - SOIL & VENT PIPE ROAD GULLY

SS - STUB STACK

CO2 21.07.23 A2: PPIC details moved to drawing 1502. C01 11.07.23 A2: Issued for Construction P01 | 19.05.23 | S1: Issued for Coordination Rev Date Description By Chko

LEA GATE PRIMARY SCHOOL GREAVES TOWN LANE, LEA **PRESTON** 

LANCASHIRE COUNTY COUNCIL

DRAINAGE

DRAINAGE DETAILS

Project - Originator - Func. - Spat. - Form - Disc. - Number 9378-SWF-XX-XX-D-C-1501

Scale 1: 20 @ A1 Date MAY 2023

Suitability Status Classification **S1: APPROVED FOR CONSTRUCTION** C02 PM\_40\_40

Unit 4, Millbank House, Riverside Business Park, Wilmslow, Cheshire. SK9 1BJ. Tel: 01625 419866 email: mail@swf.uk.com

www.swf.uk.com



By DR Chkd PSS