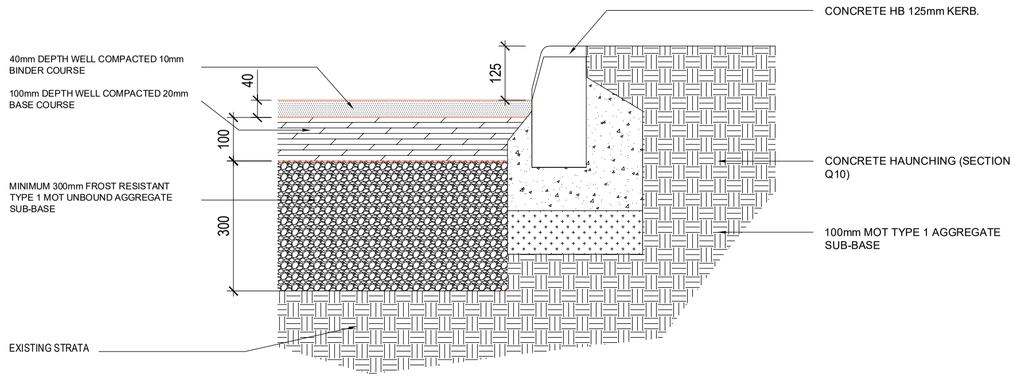
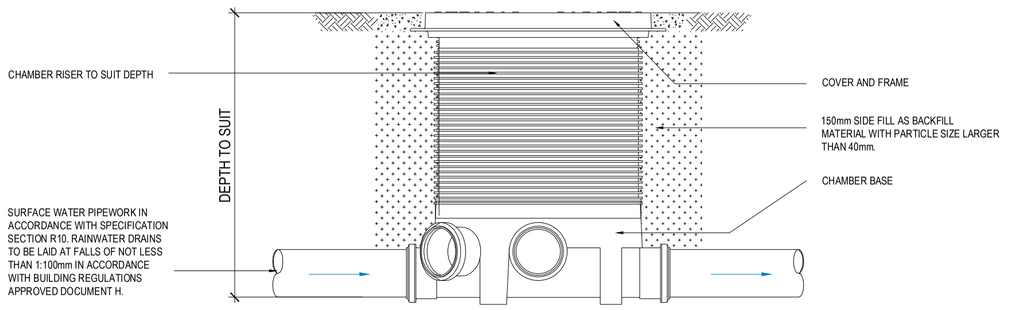
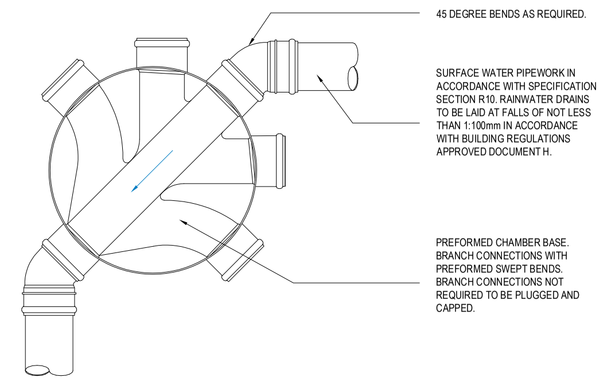
DO NOT SCALE

TYPICAL PERMEABLE SURFACE SECTION
SCALE 1:10

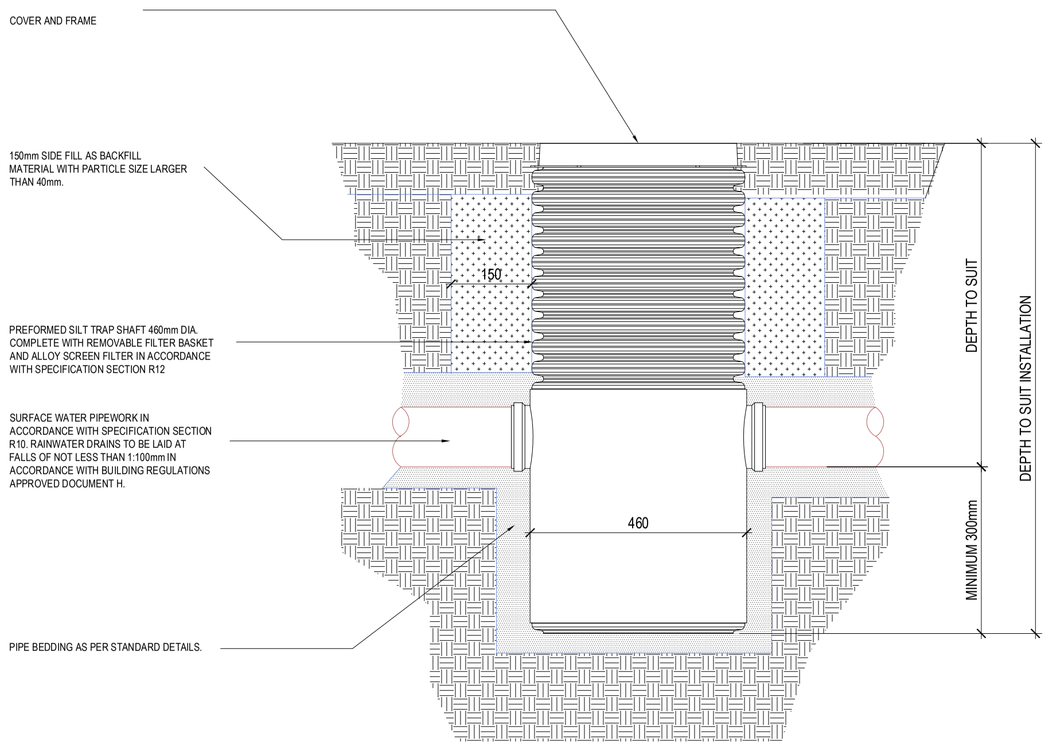


TYPICAL SECTIONAL PLAN AND ELEVATION FOR MANHOLE INSPECTION CHAMBERS
SCALE 1:10

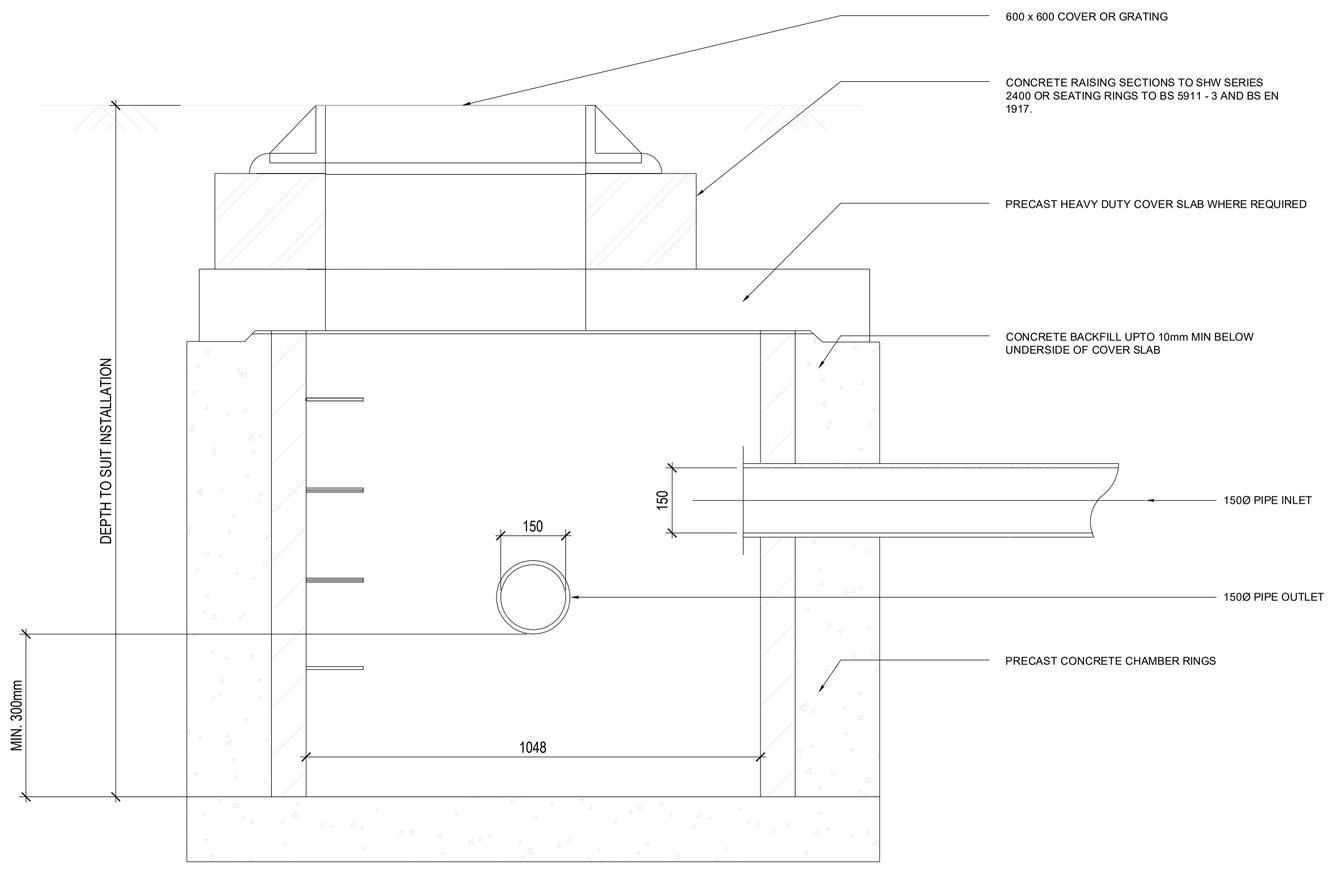




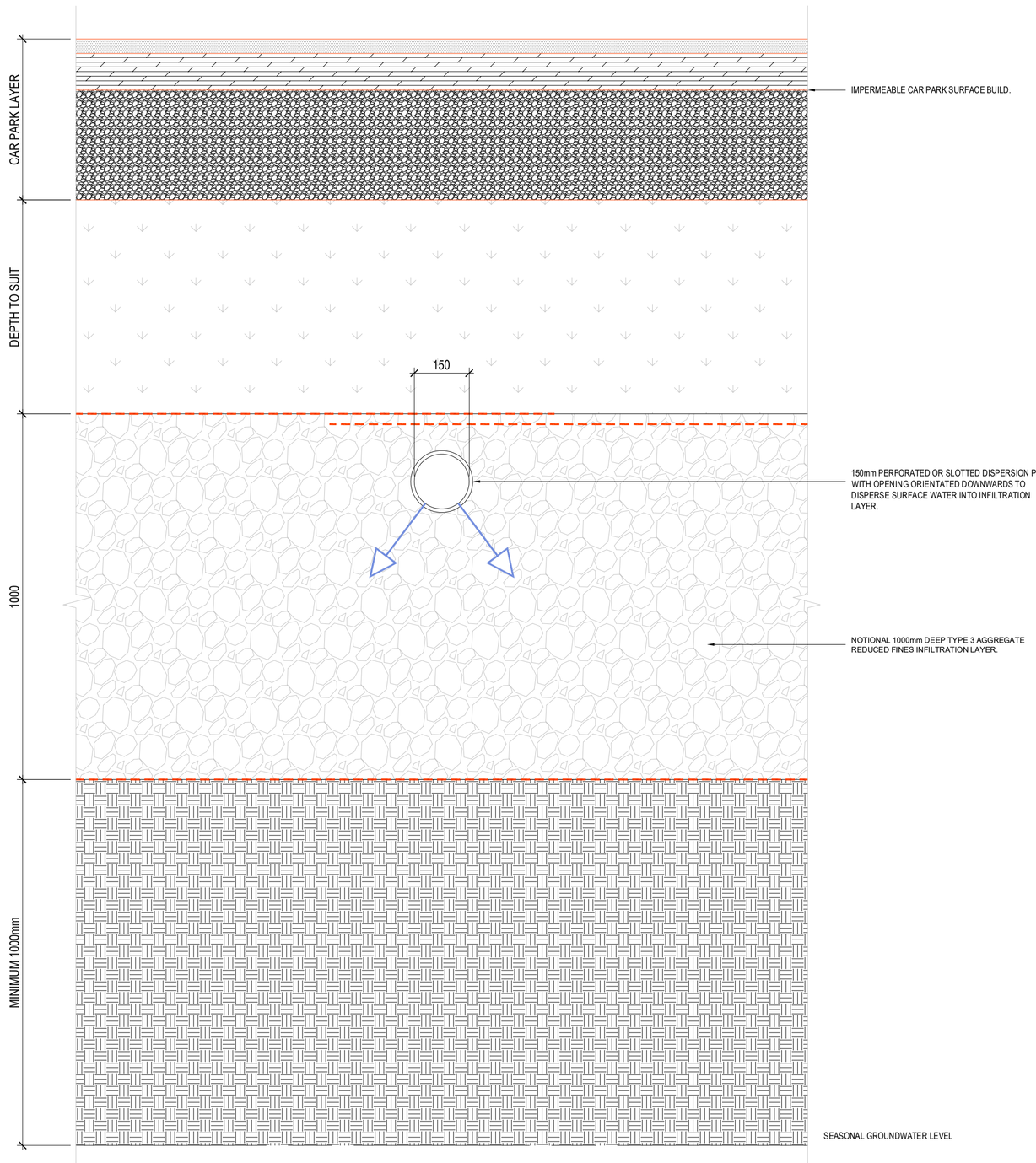
TYPICAL DETAIL FOR SILT TRAP



TYPICAL DETAIL FOR CATCHPIT



TYPICAL DETAIL FOR INFILTRATION LAYER



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
- PRESENCE OF BURIED SERVICES AND DRAINAGE. REFER TO STATUTORY SERVICES SEARCHES PLANS FOR INDICATIVE LOCATIONS.
- REFER TO GI REPORT (46-10w)_Report on Ground Investigation (ref: 2230085) FOR EXISTING GROUND CONDITIONS.

MAINTENANCE/CLEANING
- NOT APPLICABLE.

DECOMMISSIONING/DEMOLITION
- NOT APPLICABLE.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

DRAINAGE NOTES:

THE PIPE EMBEDMENT INDICATE THE MINIMUM TRENCH DIMENSIONS WHICH SHOULD BE ASSUMED FOR INITIAL DESIGN / INSTALLATION. THE MINIMUM TRENCH WIDTH WILL USUALLY BE SUFFICIENT TO ALLOW ADEQUATE COMPACTION OF THE EMBEDMENT MATERIAL. ALL PIPE WORK SHOULD BE DESIGNED / INSTALLED IN ACCORDANCE WITH BS EN 1295.

FOR NARROW TRENCHING TECHNIQUES THE MINIMUM TRENCH WIDTH MAT BE REDUCED, PROVIDING THAT THE REDUCED EMBEDMENT WIDTH IS SUFFICIENT TO SUPPORT THE PIPE WORK.

WHERE SELECTED EXCAVATED MATERIAL MAY MIGRATE INTO THE NATIVE SOIL, OR VICE VERSA, GEO-TEXTILE MEMBRANE SHOULD BE PROVIDE AROUND HE EMBEDMENT MATERIAL.

WHERE SELECTED EXCAVATED MATERIAL IS USED AS EMBEDMENT MATERIAL, THE GROUND SHOULD BE CHECKED FOR AGGRESSIVENESS AND THE PIPE WORK PROTECTED AS REQUIRED.

INSPECTION CHAMBERS FOR PROPOSED SURFACE WATER SYSTEM ARE TO BE PROVIDED WITH INCORPORATED SILT-TRAP INCLUDING REMOVABLE FILTER BASKET AND ALLOY SCREEN FILTER IN ACCORDANCE WITH SPECIFICATION SECTION R12.

PIPE WORK IS NORMALLY CLASSIFIED AS FOLLOWS:
- RIGID = CLAY, CONCRETE AND RE-INFORCED CONCRETE.
- FLEXIBLE = PVC-u, STEEL, mPVC, GRP AND POLYETHYLENE.

RAINWATER DRAINS TO BE LAID AT FALLS OF NOT LESS THAN 1:100mm IN ACCORDANCE WITH BUILDING REGULATIONS APPROVED DOCUMENT H.

FLEXIBLE PIPE EMBEDMENT SHALL NORMALLY BE CLASS S1 OR S2 AS DETAILED WITHIN SPECIFICATION SECTION R12 AND THE GROUND CONDITIONS DETAILED WITHIN THE 5151271_(46-10w) GROUND INVESTIGATION REPORT_(REF 2230085), CLASS S2 MAY BE USED WHERE THE SELECTED EXCAVATED MATERIAL IS REASONABLY UNIFORM AND THE BACKFILLING CAN BE CLOSELY CONTROLLED.

RIGID PIPE EMBEDMENT SHALL BE CLASS AS DETAILED WITHIN SPECIFICATION SECTION R12 AND THE GROUND CONDITIONS DETAILED WITHIN THE 5151271_(46-10w) GROUND INVESTIGATION REPORT_(REF 2230085).

PROCESSED GRANULAR MATERIAL SHALL COMPLY WITH THE WATER INDUSTRY STANDARDS. LIMESTONE MATERIAL SHALL NOT BE USED WHERE THE NATIVE GROUND OR GROUND WATER HAS A PH OF 6 OR LESS.

GEN 3 CONCRETE SHALL BE USED IN NON AGGRESSIVE GROUND. ELSEWHERE THE CEMENT TYPE AN MIX DESIGN SHOULD BE SELECTED TO SUIT THE SULPHATE CONTENT AND PH OF THE GROUND AND GROUND WATER AS DETAILED WITHIN WITHIN THE 5151271_(46-10w) GROUND INVESTIGATION REPORT_(REF 2230085).

CONCRETE SURROUND DETAILS SHALL BE ADOPTED WHERE THE COVER TO PIPE WORK IS LESS THAN 1.2m UNDER ROADS AND PARKING AREAS WHERE NECESSARY AND 0.9m ELSEWHERE.

PIPE WORK TO BE BEDDED / SURROUNDED WITH CONCRETE SHALL BE SUPPORTED ON PRECAST CONCRETE SETTING BLOCKS, THE TOP FACE OF EACH BLOCK BEING COVERED WITH TWO LAYERS OF COMPRESSIBLE PACKING.

PVC AND PE PIPE WORK SHALL BE WRAPPED WITH A LAYER OF PLASTIC SHEETING THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY STANDARDS.

COMPRESSIBLE FILLER SHALL COMPLY WITH THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY STANDARDS.

GENERAL NOTES:

REFER TO DRAWING NO. DOS-ATK-(46-10w)-XX-DR-B-0002 AND DOS-ATK-(46-10w)-XX-DR-B-0003 FOR DETAILS OF PROPOSED SITE LAYOUT AND EXISTING SERVICES INFORMATION.

REFER TO DRAINAGE CCTV SURVEY DRAWING (REF: E.5_5151271_(46-10w)) AND DRAINAGE SURVEY REPORT (REF: E.6_5151271_(46-10w)) FOR DETAIL OF THE EXISTING BELOW GROUND DRAINAGE IN THE VICINITY AND CONNECTION POINTS.

REFER TOP DRAWING NO. DOS-ATK-(46-10w)-XX-DR-B-0022 FOR PROPOSED SURFACE AND FOUL WATER DRAINAGE LAYOUT.

COVER LEVELS AND INVERT LEVELS NOTED ARE TO BE VERIFIED ON SITE. NOMINAL LEVELS SHOWN MAY BE ADJUSTED TO SUIT FINISHED GROUND LEVELS AS NECESSARY.

FINAL POSITIONS AND CONNECTION POINTS TO BE CONFIRMED ON SITE.

RAINWATER GULLIES AND DOWNPIPES TO BE PROVIDED IN ACCORDANCE WITH SPECIFICATION SECTION R10 AND BUILDING REGULATIONS APPROVED DOCUMENT PART H.

Rev.	Date	Description	By	Chk'd	App'd
P4	JAN 22	FOR INFORMATION	AB	MR	MR
P3	OCT 21	FOR INFORMATION	AB	MR	MR
P2	SEPT 21	FOR INFORMATION	AB	MR	MR
P1	AUG 21	FOR INFORMATION	AB	MR	MR
P1	AUG 21	FOR REVIEW	AB	MR	MR

Drawing Status: FOR INFORMATION
Suitability: S2

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Client: DIOCESE OF SHREWSBURY

Project Title: ST ANTHONY'S CATHOLIC PRIMARY SCHOOL, DUNKERY ROAD, WYTHENSHAWE MANCHESTER, M22 0NT

Drawing Title: CAR PARK & NEW BUILD ACCOMMODATION PROPOSED DRAINAGE STANDARD DETAILS

DIOCESE PROJECT REF: 46-10w

Scale	Designed	Drawn	Checked	Authorised
AS SHOWN	SB	SM	AB	MR
Original Size	Date	Date	Date	Date
A1	JUL 21	JUL 21	AUG 21	AUG 21

Drawing Number: DOS-ATK-(46-10w)-XX-DR-B-0026
Revision: P4

Internal Project Number: 5151271.010