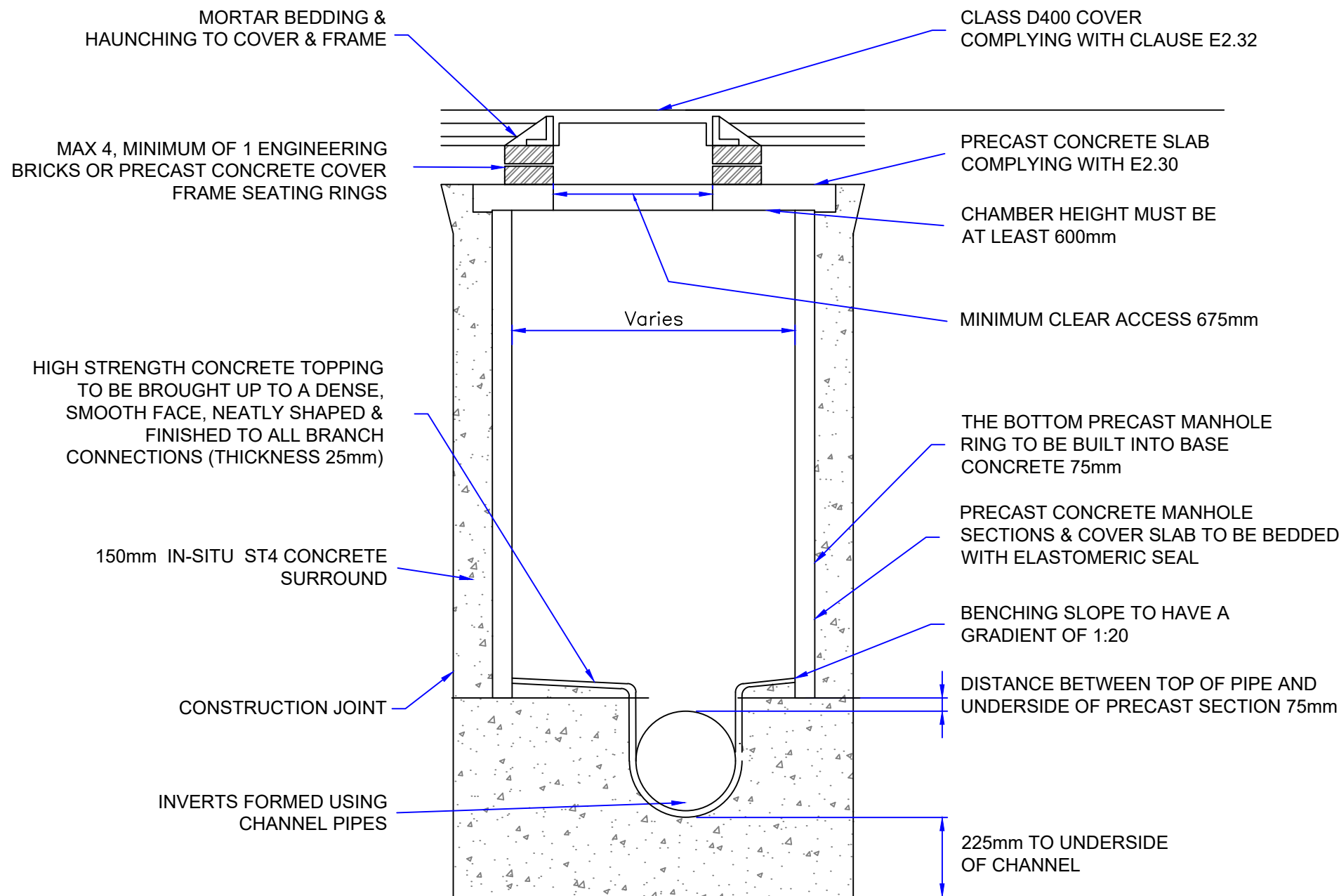
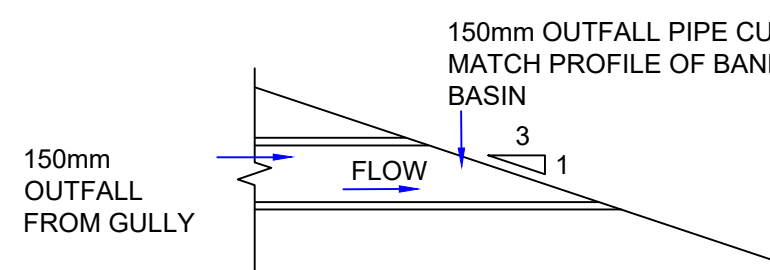
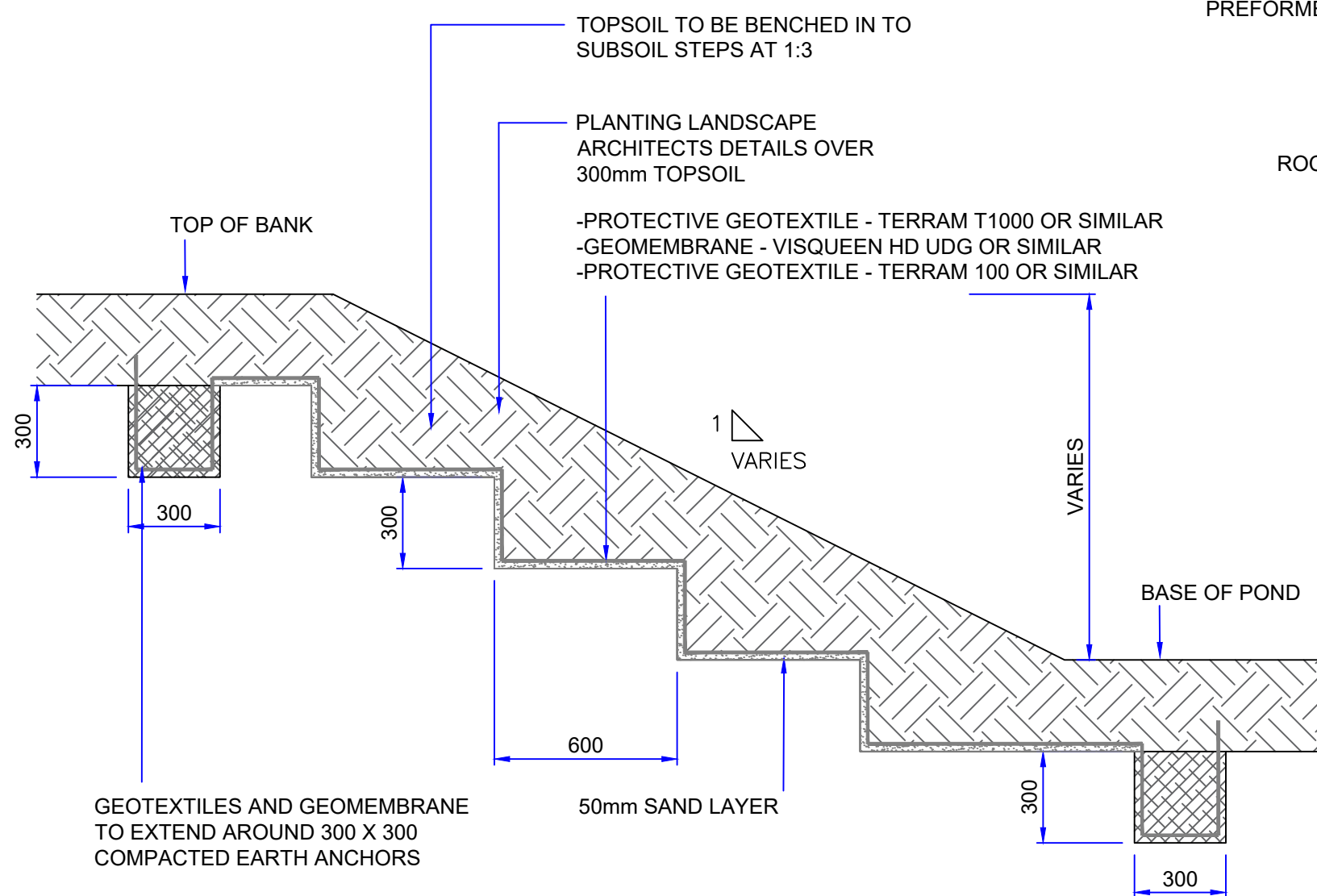




TYPE B MANHOLE DETAIL
(1.5m - 3m DEEP)

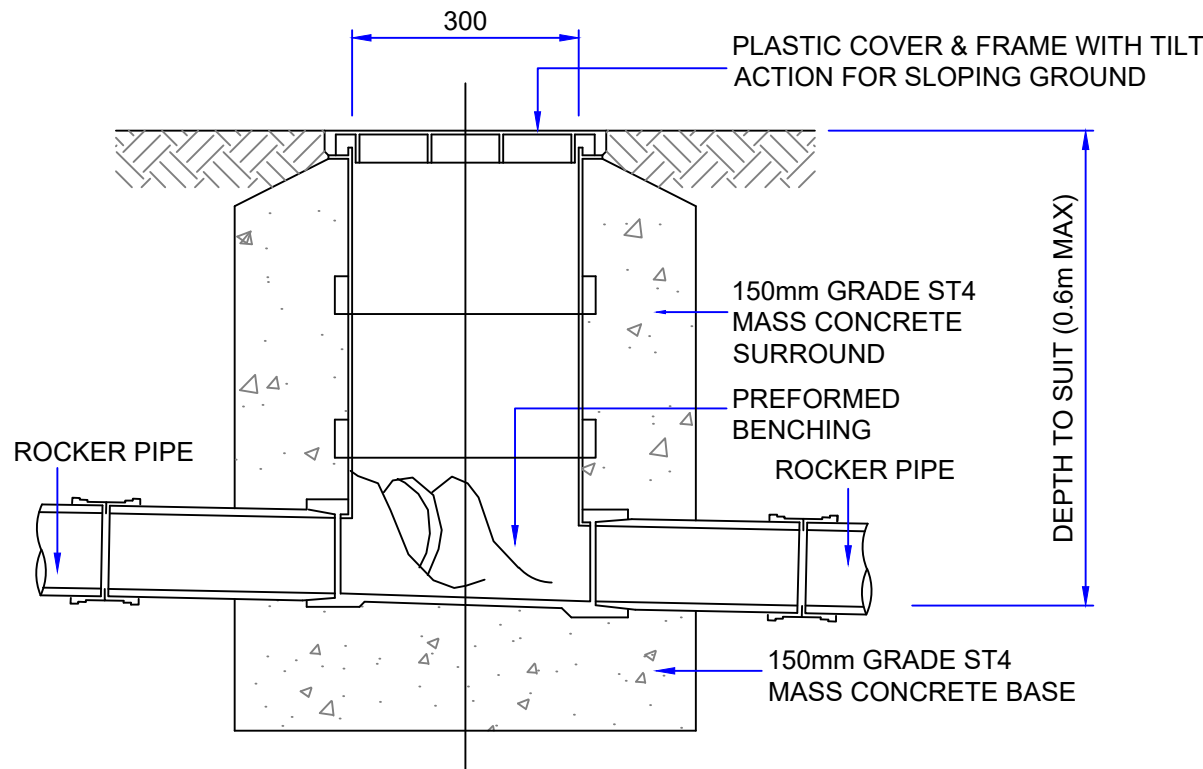


GULLY OUTFALL DETAIL TO BANK OR BASIN

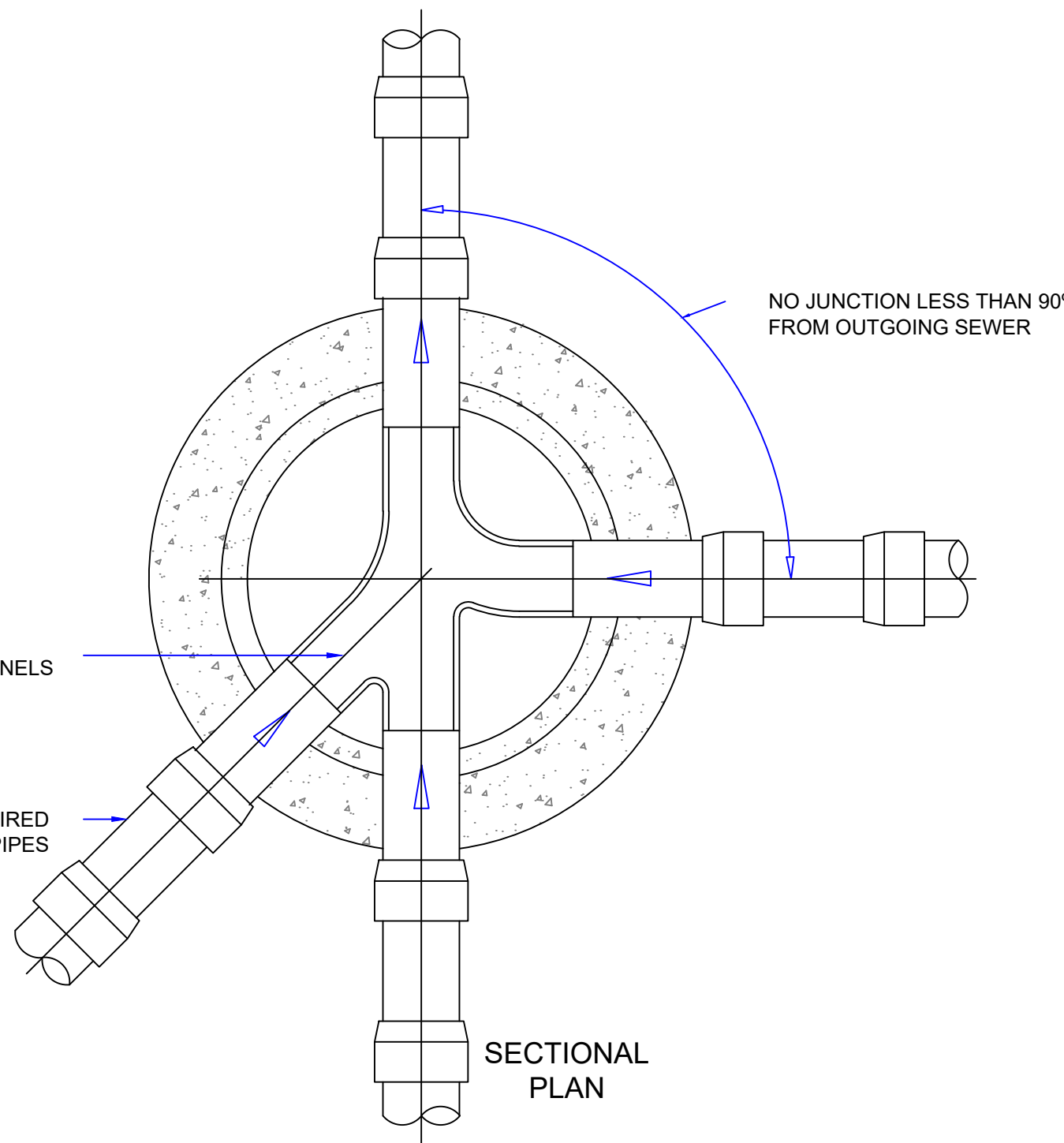


TYPICAL IMPERMEABLE BANK LINING DETAIL

REFER TO EXTERNAL LEVELS AND DRAINAGE LAYOUT FOR LOCATION DETAILS



SHALLOW ACCESS CHAMBER DETAIL

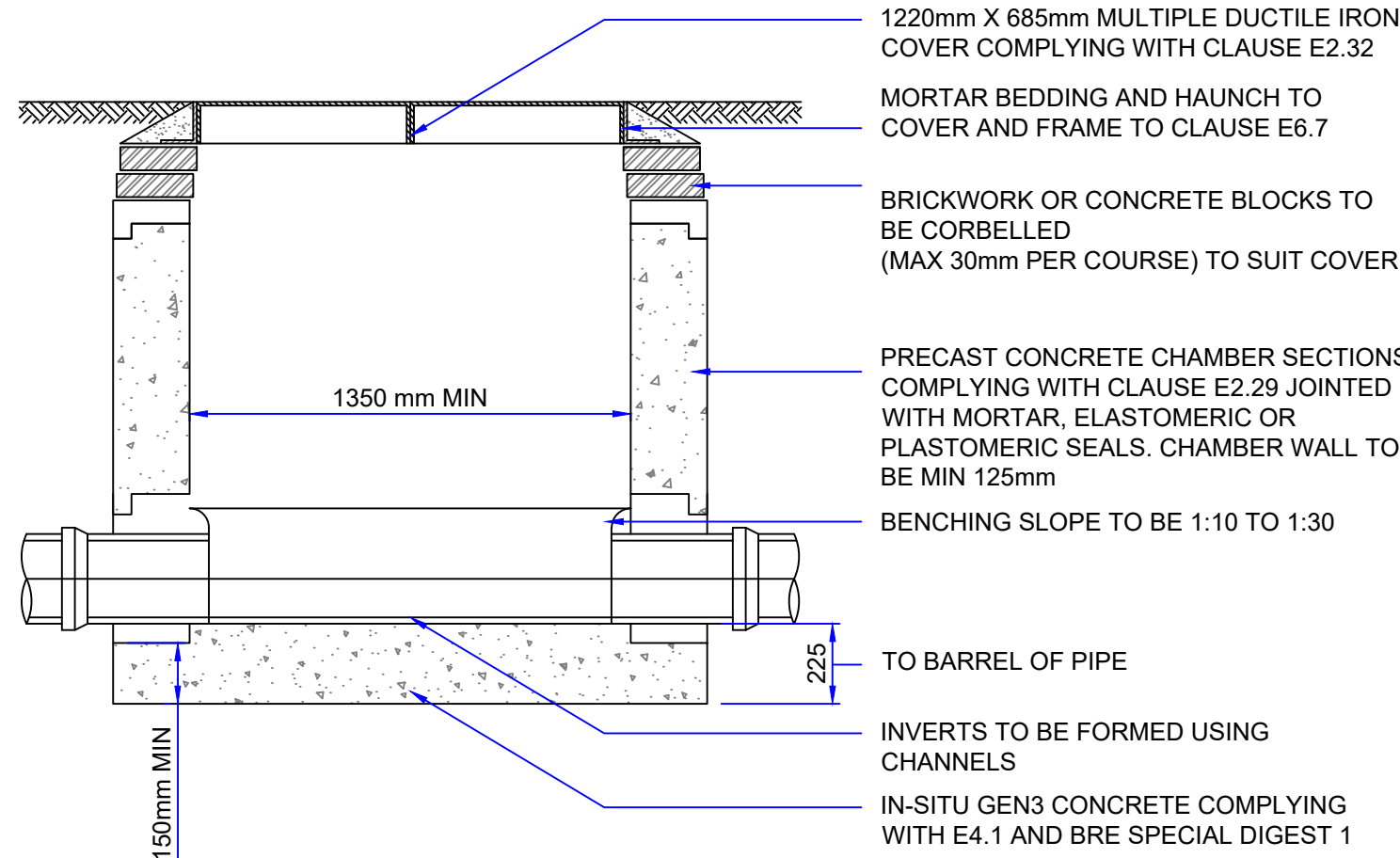


SECTIONAL PLAN

RIGID PIPES BUILT INTO MANHOLE SHOULD HAVE A FLEXIBLE JOINT AS CLOSE AS FEASIBLE TO THE EXTERNAL FACE OF THE STRUCTURE AND THE LENGTH OF THE NEXT ROCKER PIPE SHOULD BE AS SHOWN.

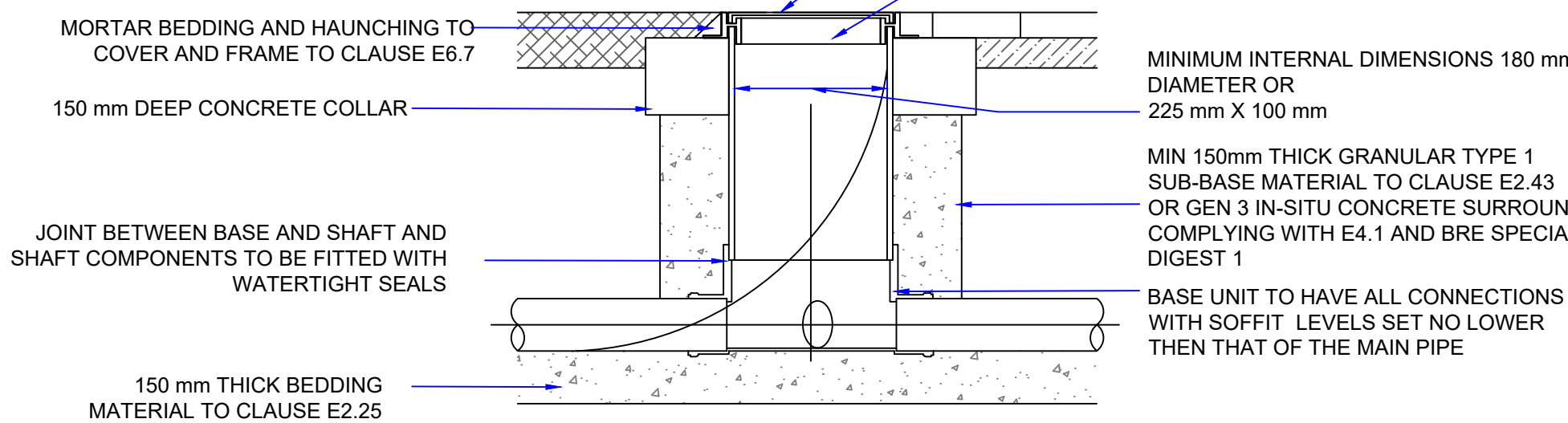
NOMINAL DIAMETER (mm)	MAXIMUM EFFECTIVE LENGTH (m)
150 - 600	0.6
601 - 750	1.00
over 750	1.25

ALL PIPES ENTERING THE BOTTOM OF THE MANHOLE TO HAVE SOFFITS LEVEL.

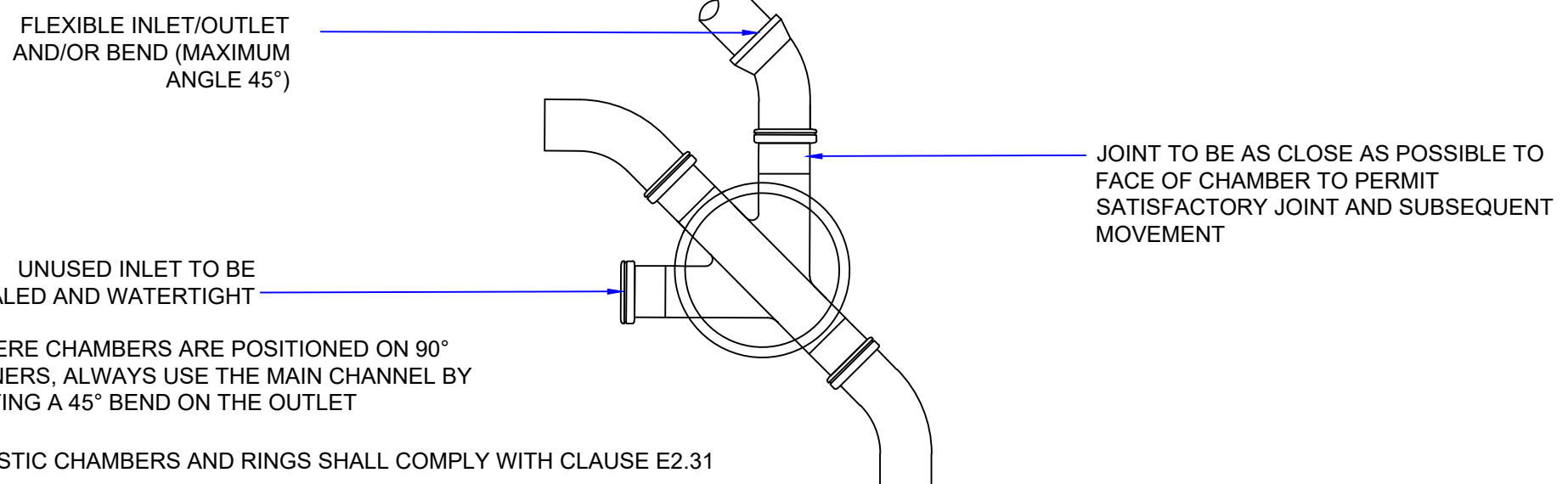
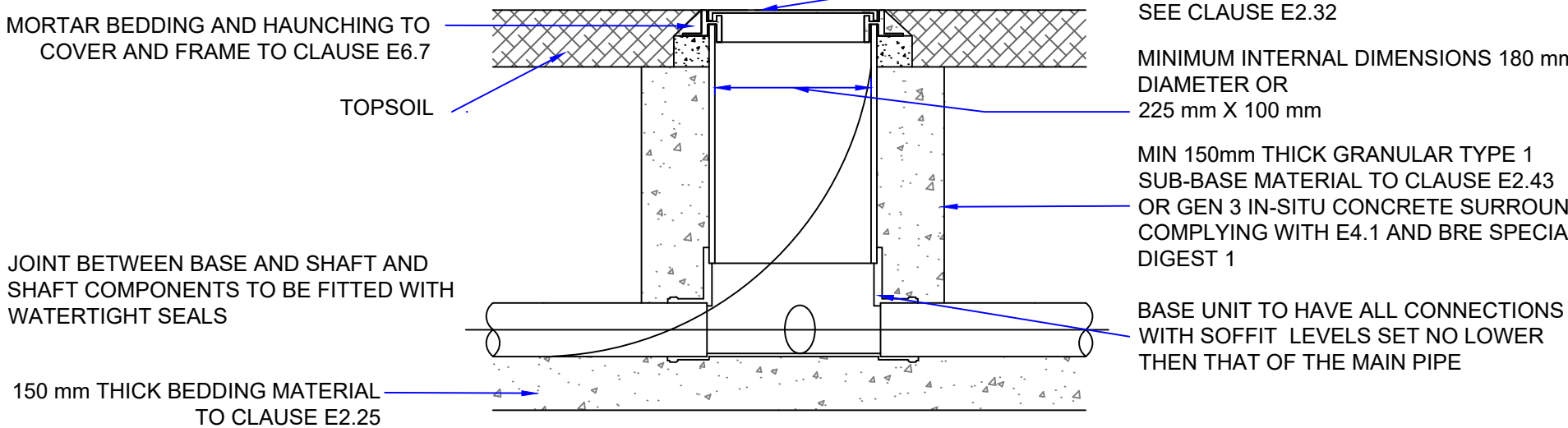


TYPICAL MANHOLE DETAIL - TYPE C
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE LESS THAN 1.5m

SITED IN DRIVEWAYS/PAVED AREAS



SITED IN DOMESTIC GARDENS



TYPICAL MANHOLE DETAIL - TYPE E
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE UP TO 2M

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C	PHASE 2 CONSTRUCTION ISSUE	11.09.23	LC	JM
B	UPDATED TO CLIENTS COMMENTS	27.09.22	LC	JC
A	DETAILED DESIGN ISSUE	11.08.22	LC	RW
Rev	Description	Date	By	Chkd

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Client

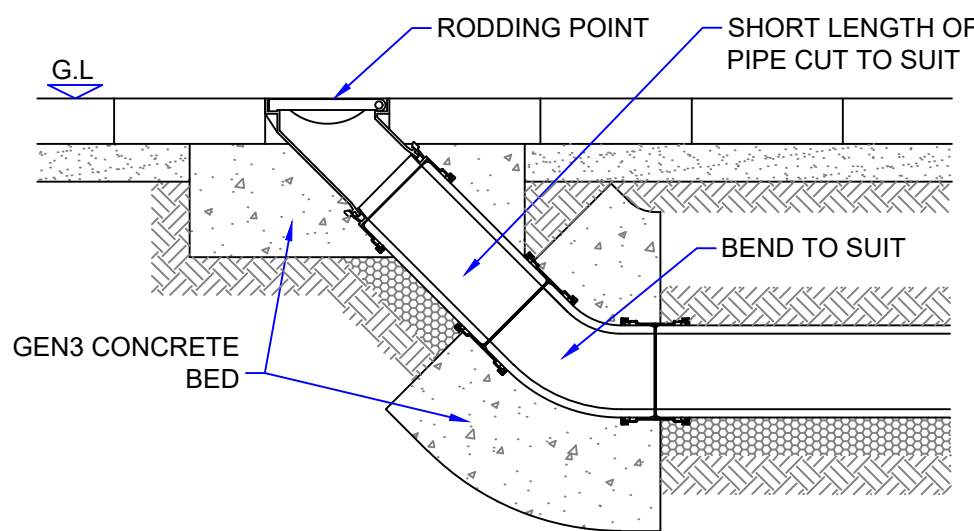
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Project Name
LAND NORTH OF WATER LANE
ANGMERING

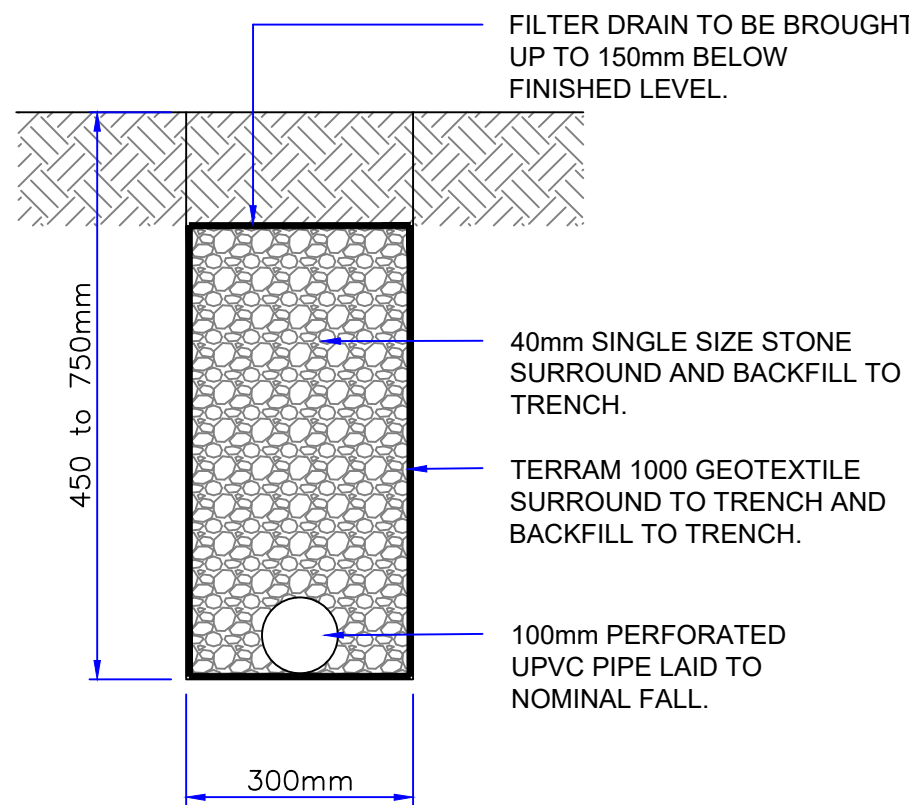
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DRAINAGE CONSTRUCTION DETAILS SHEET 1 OF 8

Project Phase
DETAILED DESIGN

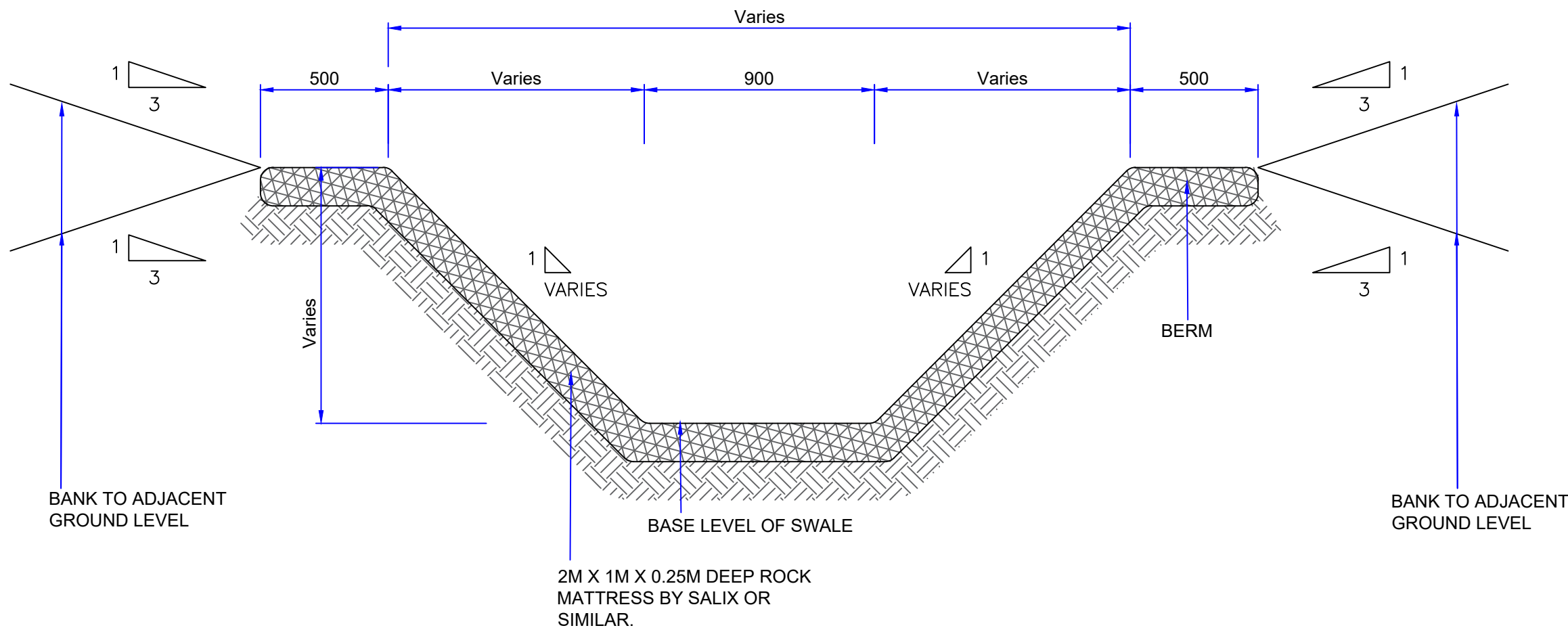
Checked By RW	Checked Date 16.03.22	Drawn By SRV	Drawn Date 08.03.22
Client Drawing No. -	Scale NTS	(AT A1 SIZE)	
PBA Drawing No. 189.5005.526	Revision C		



RODDING EYE

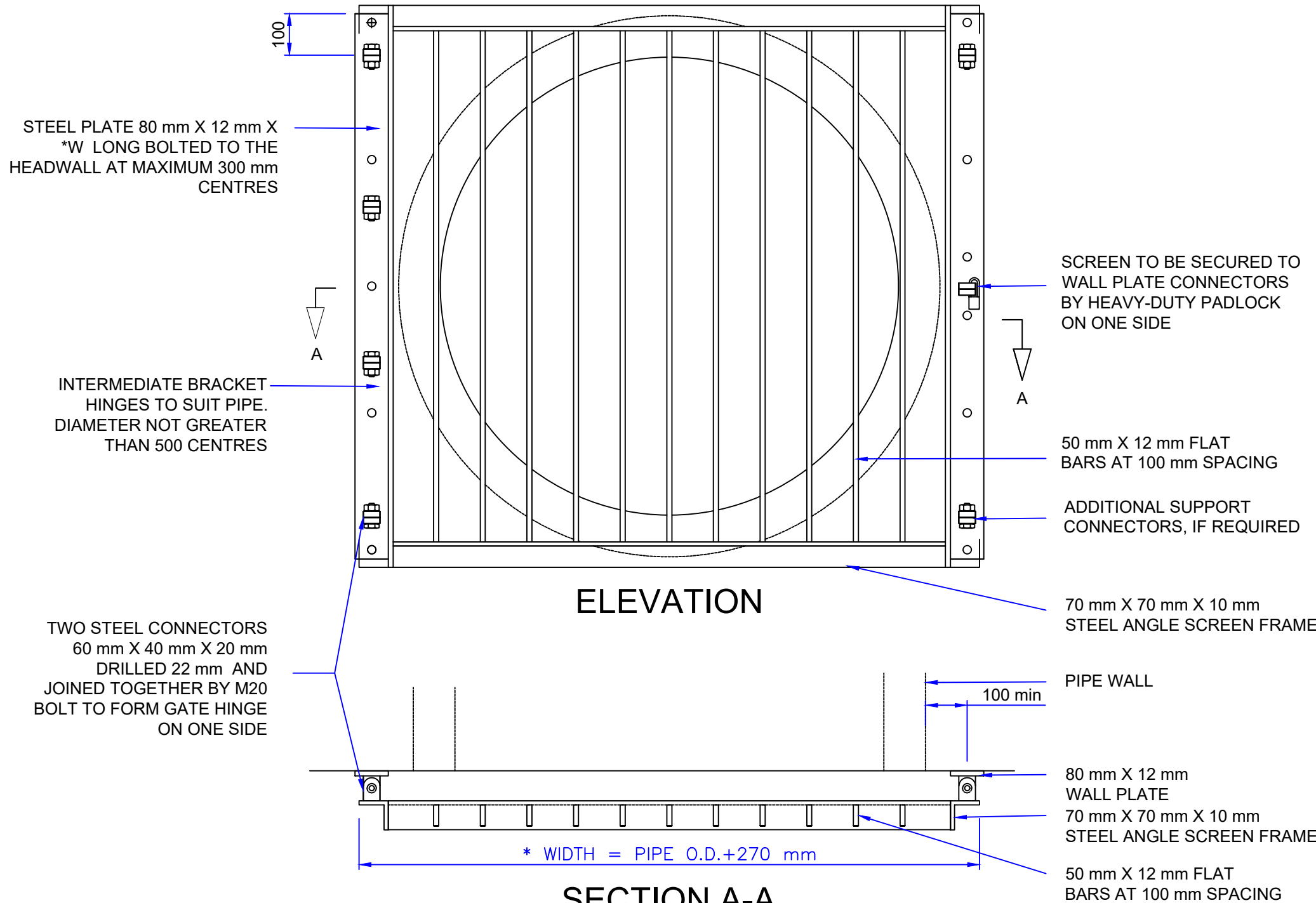


GARDEN FILTER DRAIN TYPICAL
DETAIL



TYPICAL ROCK MATTRESS SWALE
SECTION

REFER TO EXTERNAL LEVELS AND
DRAINAGE LAYOUT FOR LOCATION
DETAILS



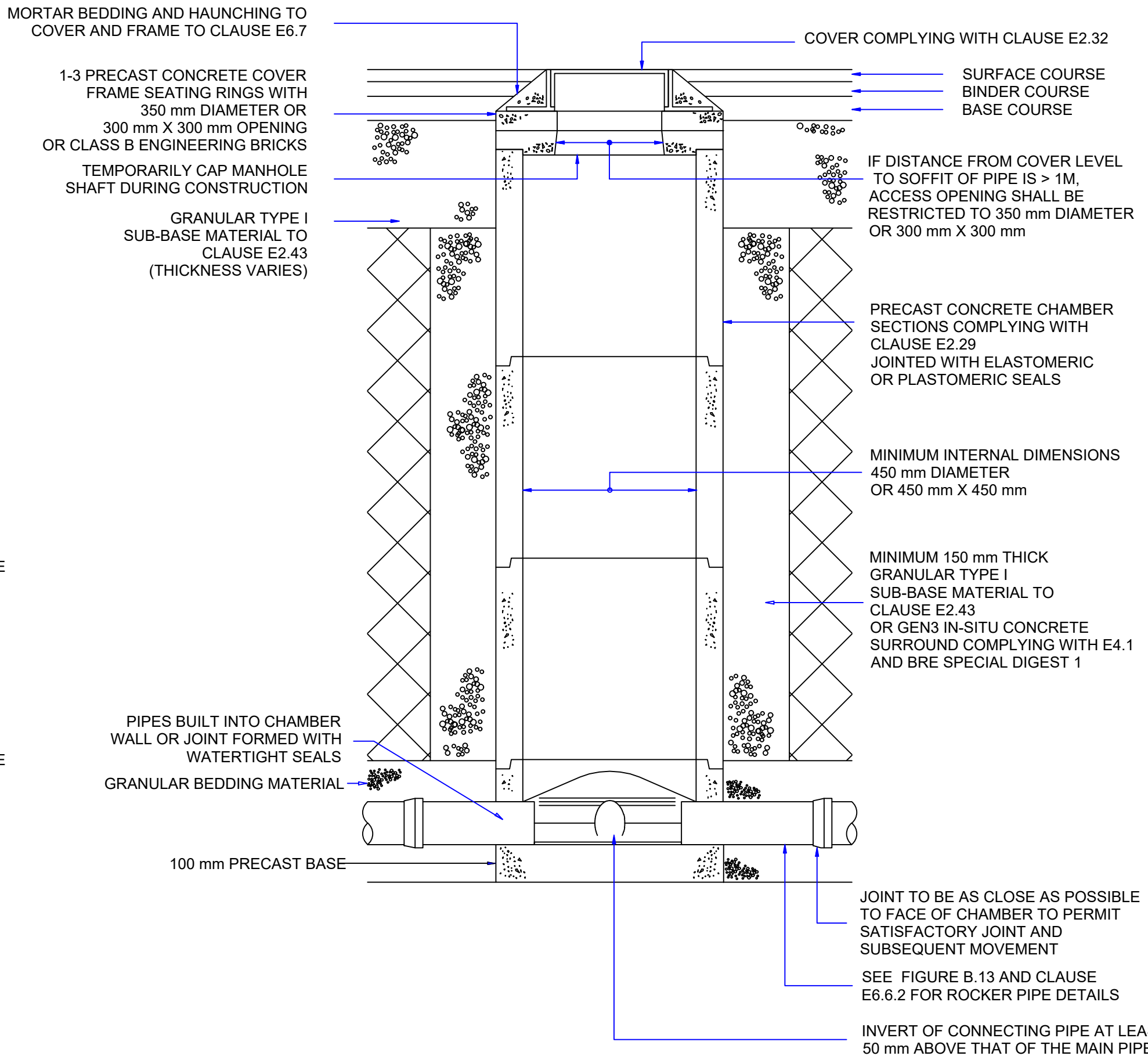
DETAIL OF CONNECTOR

TYPICAL SAFETY GRILL DETAIL

FOR OUTLET / INLETS OF 350mm DIA OR
GREATER

INSTALLATIONS INSTRUCTIONS

- MATTRESSES ARE TO BE INSTALLED USING THE LIFTING STROPS PROVIDED.
- THE MATTRESS MUST BE LAID ONTO A SMOOTH PROFILE SO THERE IS FULL CONTACT AND NO VOIDS. IN SOME INSTANCES PLACING A SEPARATION GEOTEXTILE MAY BE NECESSARY BEFORE PLACING THE MATTRESS. ALL OBSTRUCTION OVER 50mm SHOULD BE CLEARED.
- WHERE ROCK MATTRESS IS LAID ON BANKS EXCEEDING 1:2 GRADIENT SUITABLE FIXINGS ARE REQUIRED AND SHOULD BE INSTALLED IN ACCORDANCE WITH MANUFACTURES GUIDANCE AND INSTALLATION INSTRUCTIONS.
- ONCE PLACED IN POSITION ALL UNITS ARE TO BE HAND STITCH TOGETHER WITH POLYPROPYLENE TWINE OR CABLE TIES OF A SUITABLE STRENGTH AND LONGEVITY.



TYPICAL PIPED SWALE
ARRANGEMENT

REFER TO EXTERNAL LEVELS AND
DRAINAGE LAYOUT FOR LOCATION
DETAILS

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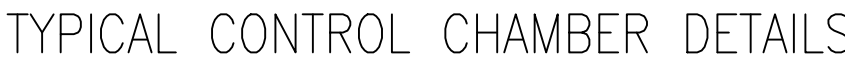
D	PHASE 2 CONSTRUCTION ISSUE	11.09.23	LC	JM
C	TYPE D CHAMBER DETAIL ADDED	04.10.22	LC	CL
B	UPDATED TO CLIENTS COMMENTS	27.09.22	LC	JC
A	DETAILED DESIGN ISSUE	11.08.22	LC	RW
Rev	Description	Date	By	Chkd

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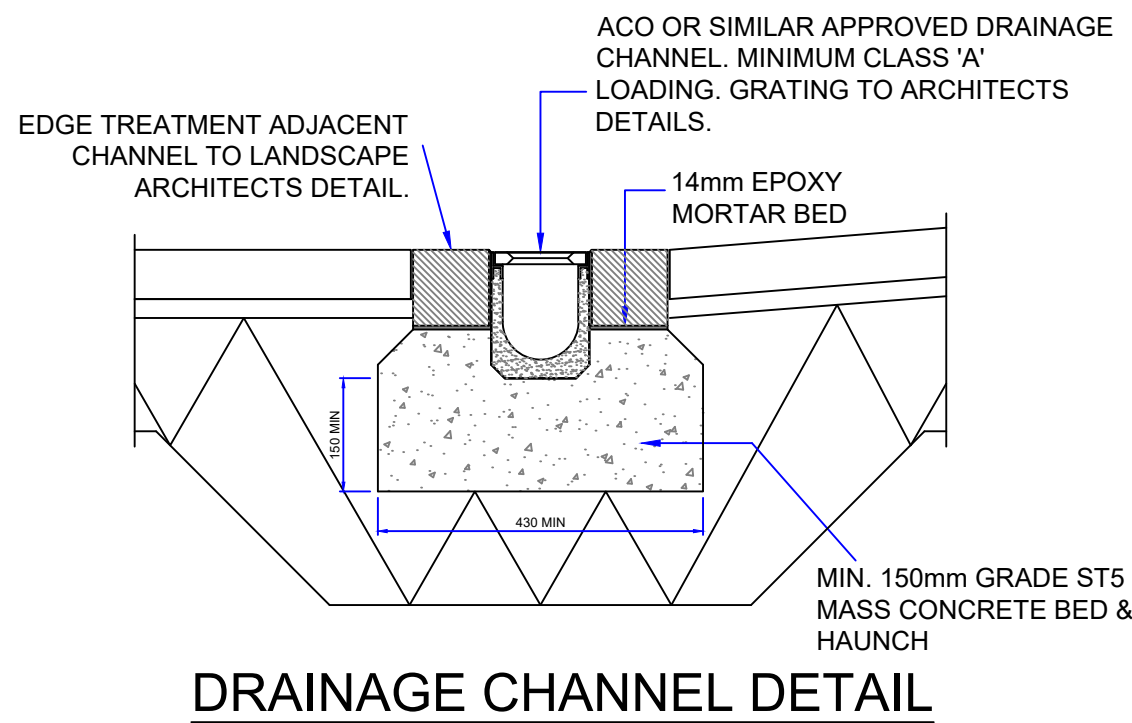


Project Name LAND NORTH OF WATER LANE ANGMERING			
Title DRAINAGE CONSTRUCTION DETAILS SHEET 2 OF 8			
Project Phase DETAILED DESIGN			
Checked By RW	Checked Date 16.03.22	Drawn By SRV	Drawn Date 08.03.22
Client Drawing No. -	Scale NTS	(AT A1 SIZE)	
PBA Drawing No. 189.5005.527	Revision D		

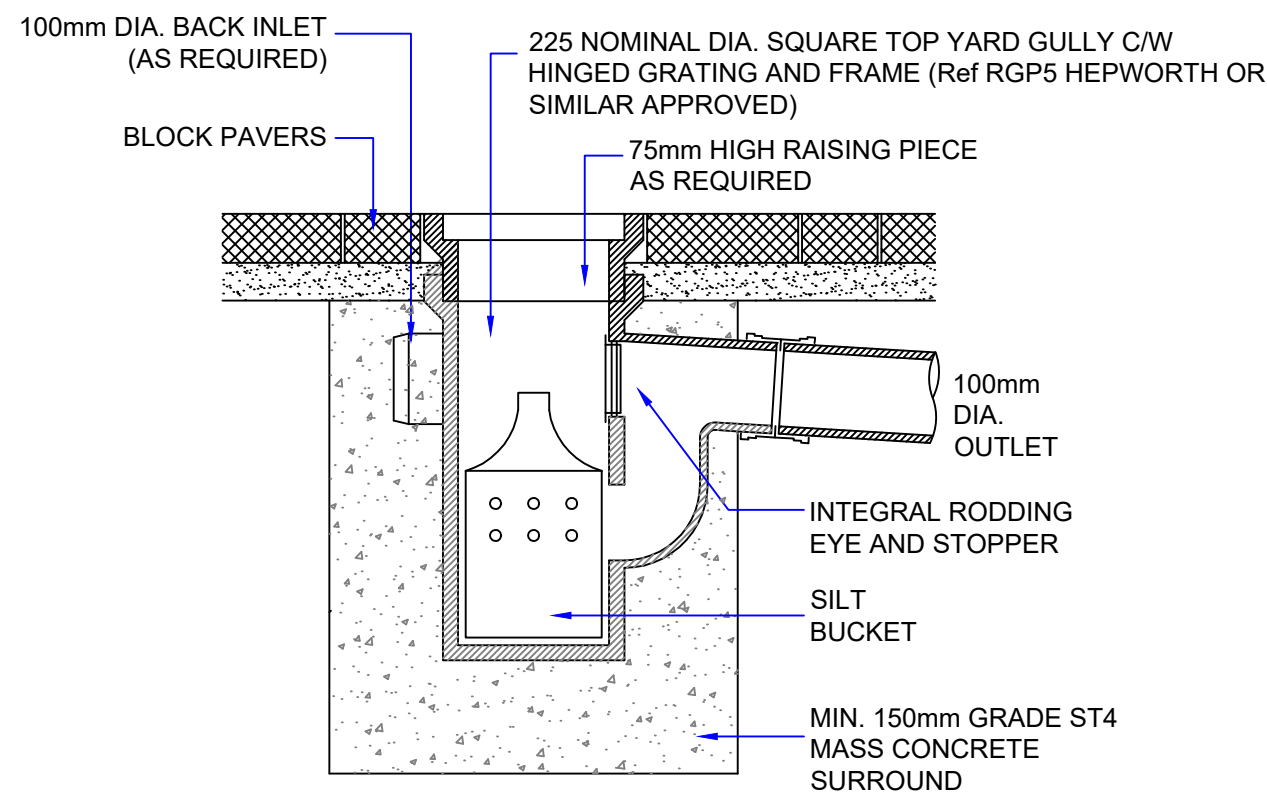


ORIFICE CONTROL DETAILS

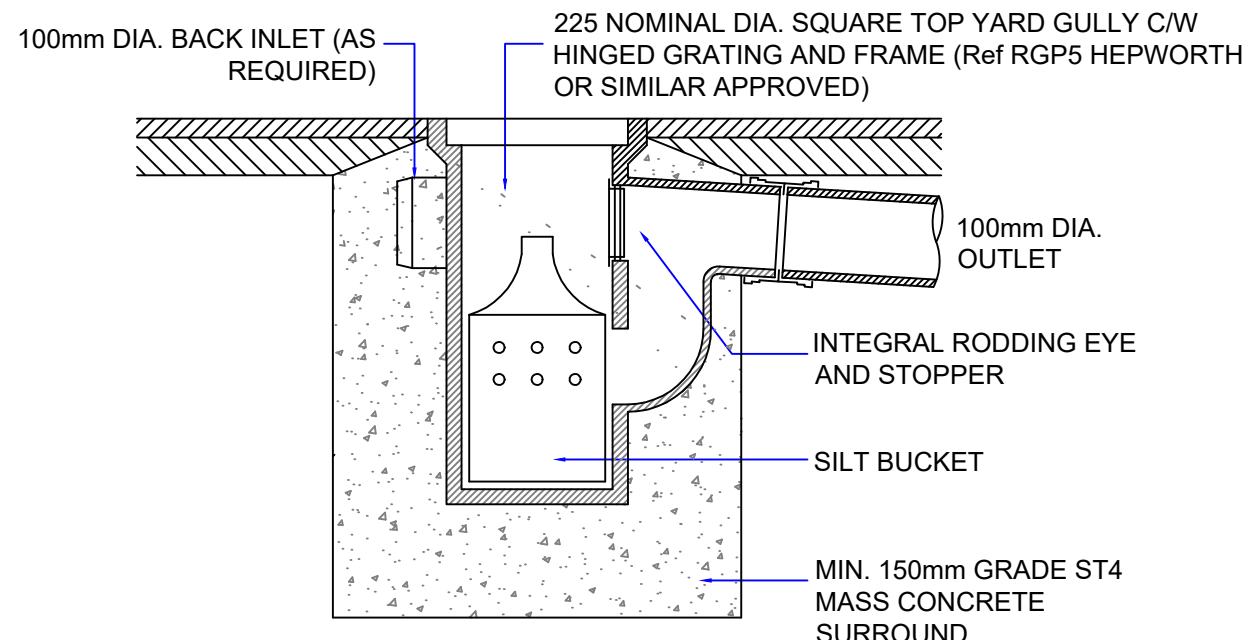
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PBA Drawing No.			Revision
189.5005.528			D



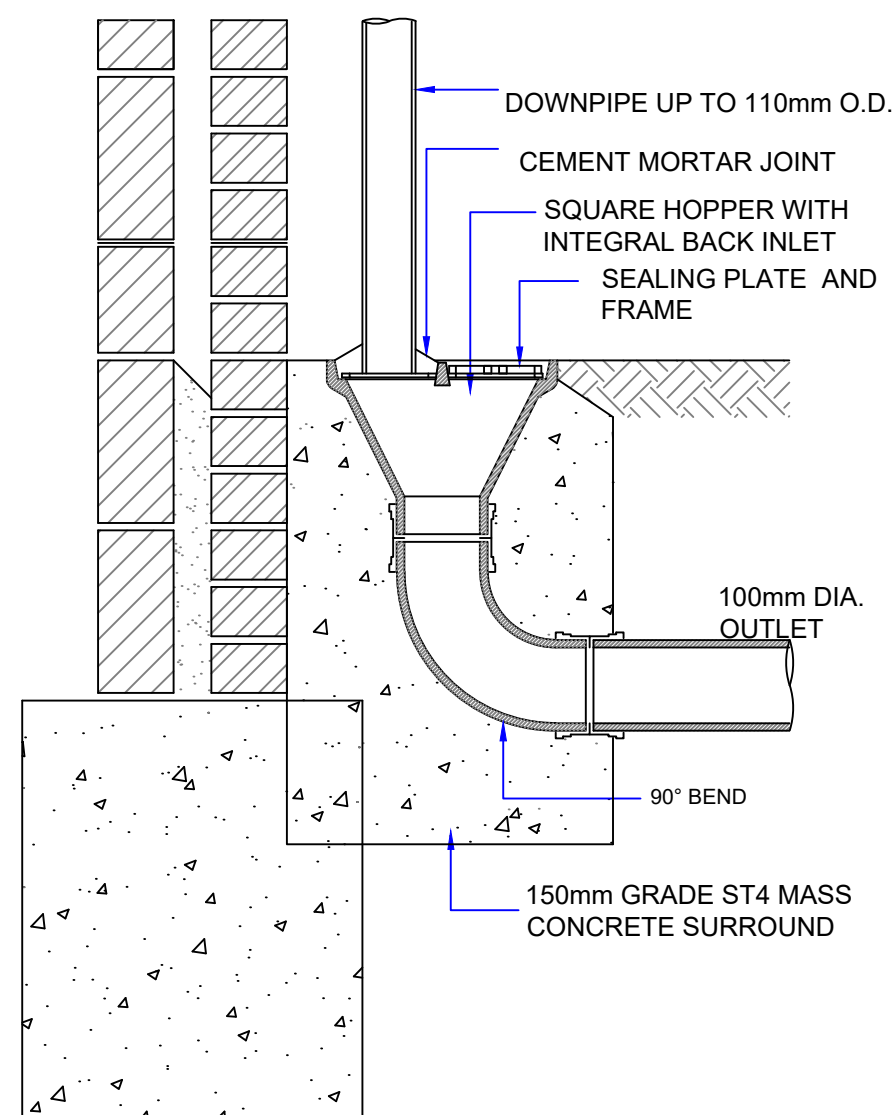
DRAINAGE CHANNEL DETAIL



YARD GULLY DETAIL

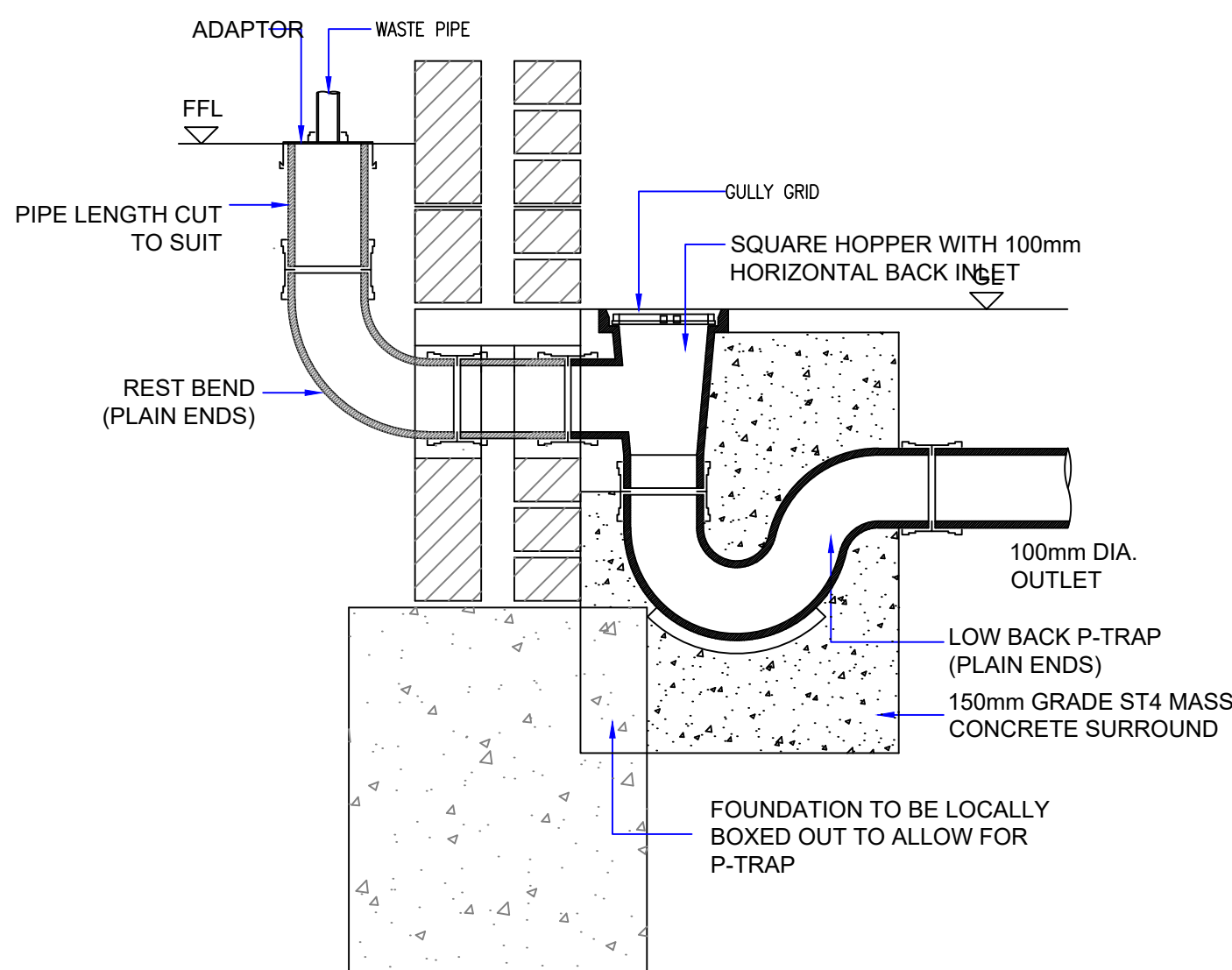


YARD GULLY DETAIL

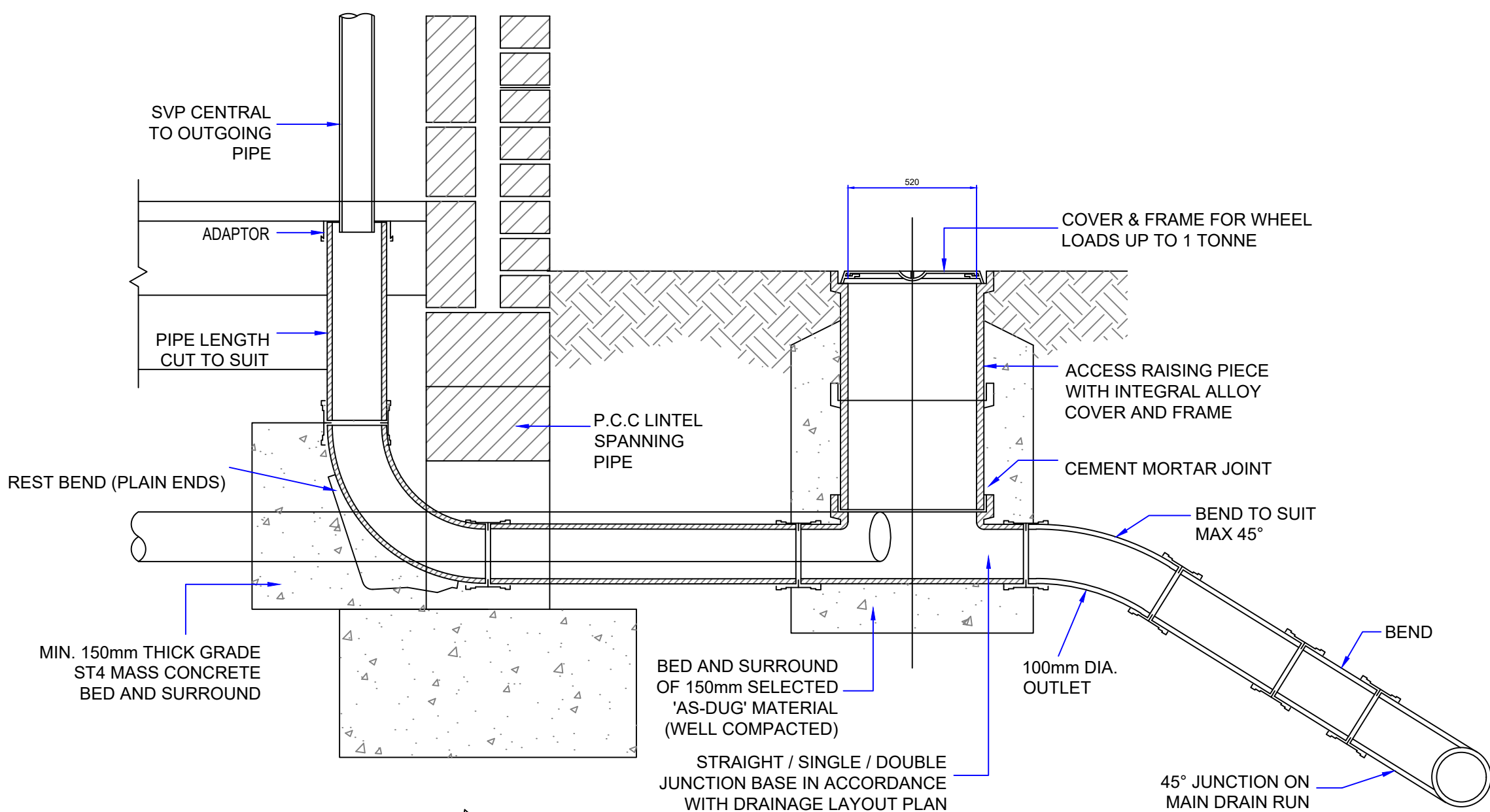


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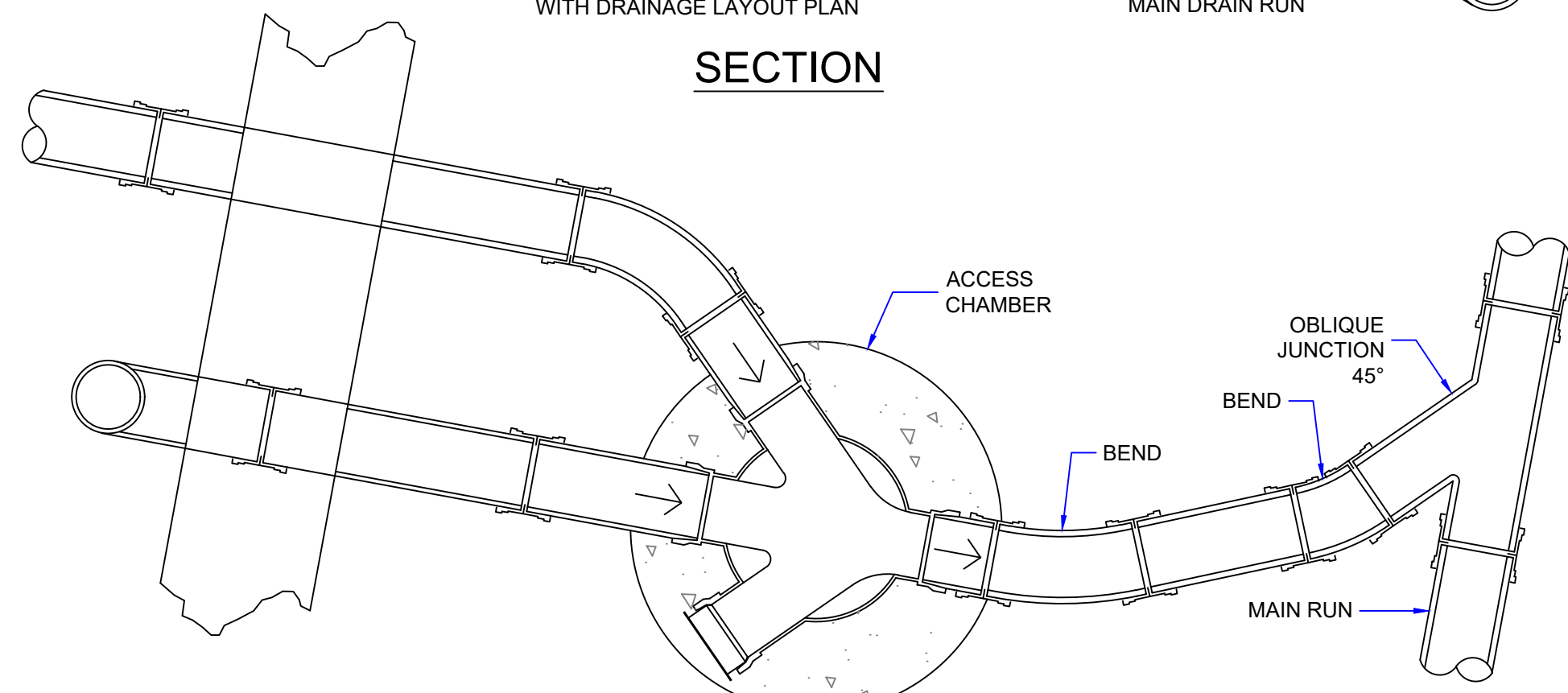
NOTE:
1. ABOVE DETAIL IS ONLY TO BE USED WHERE CONNECTION IS INTO A PIPELINE VIA A JUNCTION PIPE



BACK INLET GULLY DETAIL

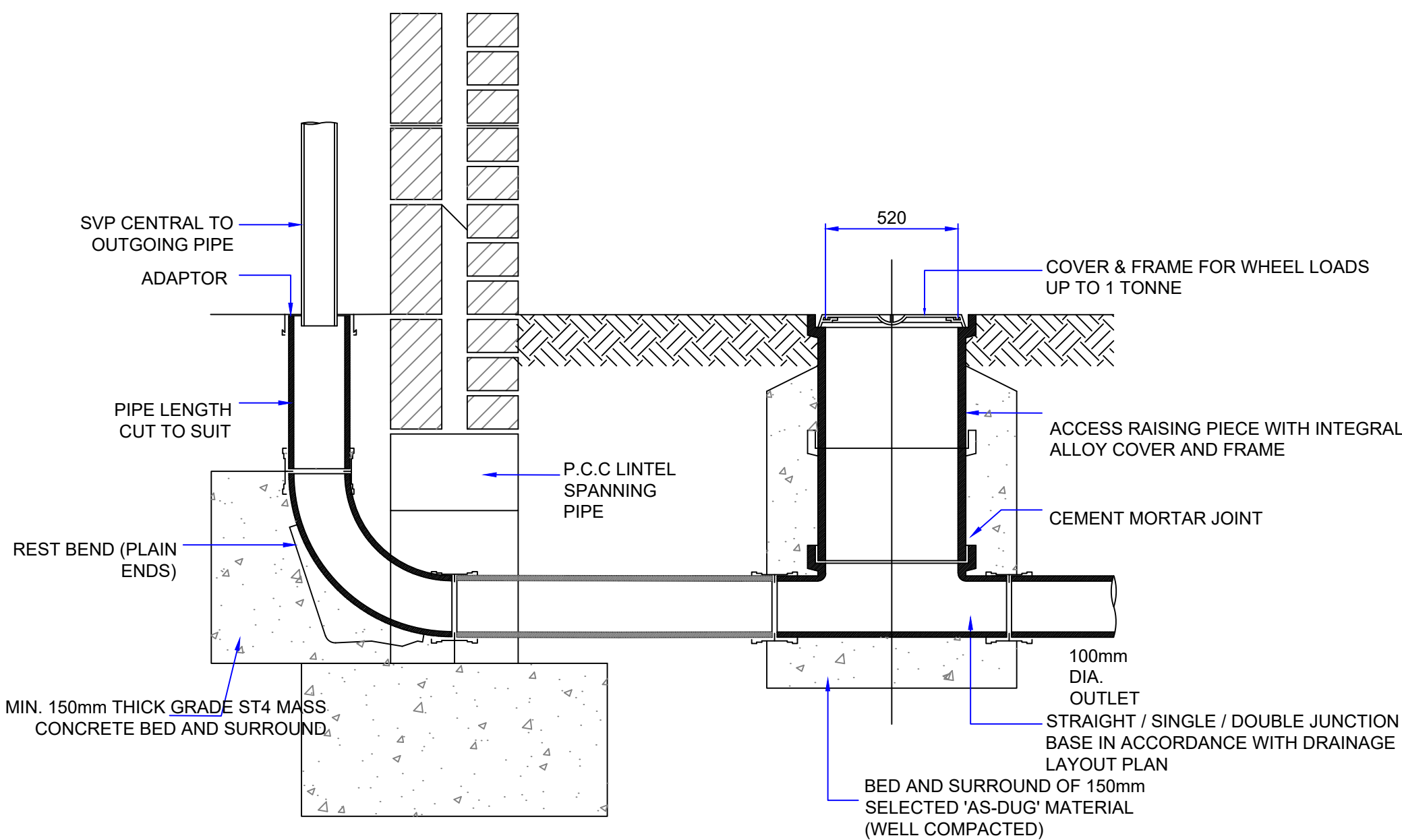


SECTION



PLAN

TYPICAL ACCESS CHAMBER AND JUNCTION DETAIL



INTERNAL SVP DETAIL

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B	PHASE 2 CONSTRUCTION ISSUE	11.09.23	LC	JM
A	DETAILED DESIGN ISSUE	11.08.22	LC	RW
Rev	Description	Date	By	Chkd

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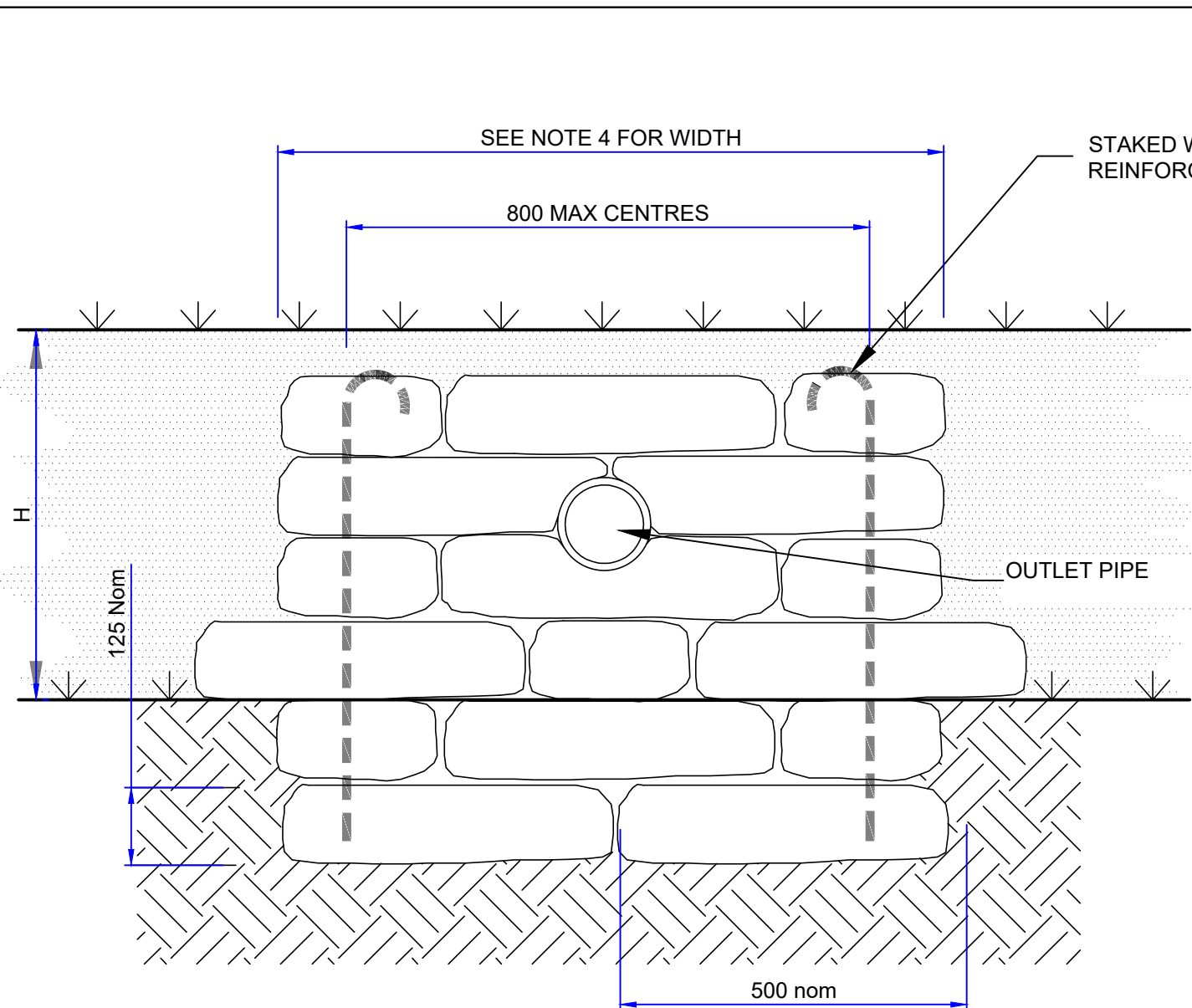
Project Name
LAND NORTH OF WATER LANE
ANGMERING

Title
DRAINAGE CONSTRUCTION DETAILS SHEET 4 OF 8

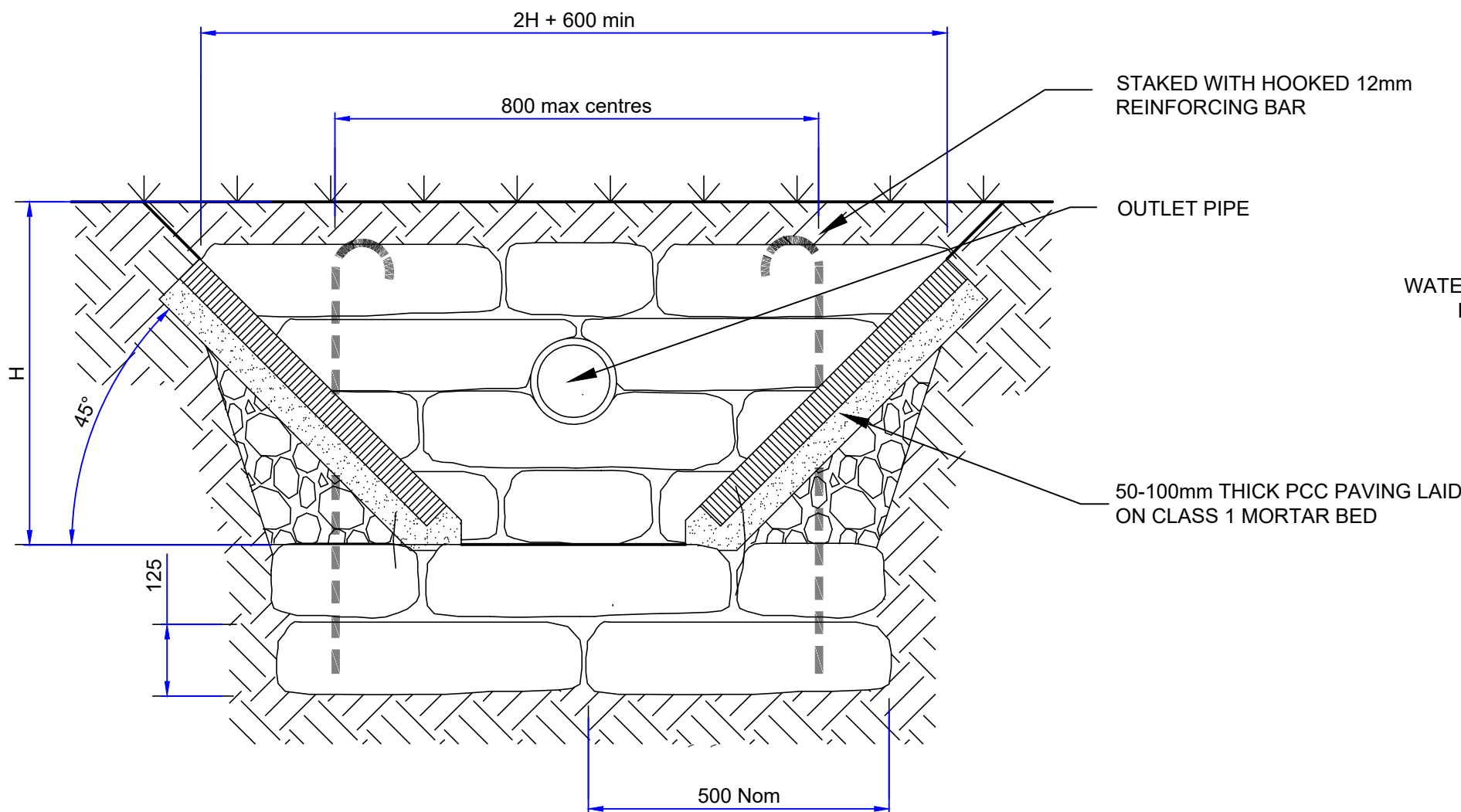
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DETAILED DESIGN

Checked By RW	Checked Date 16.03.22	Drawn By SRV	Drawn Date 08.03.22
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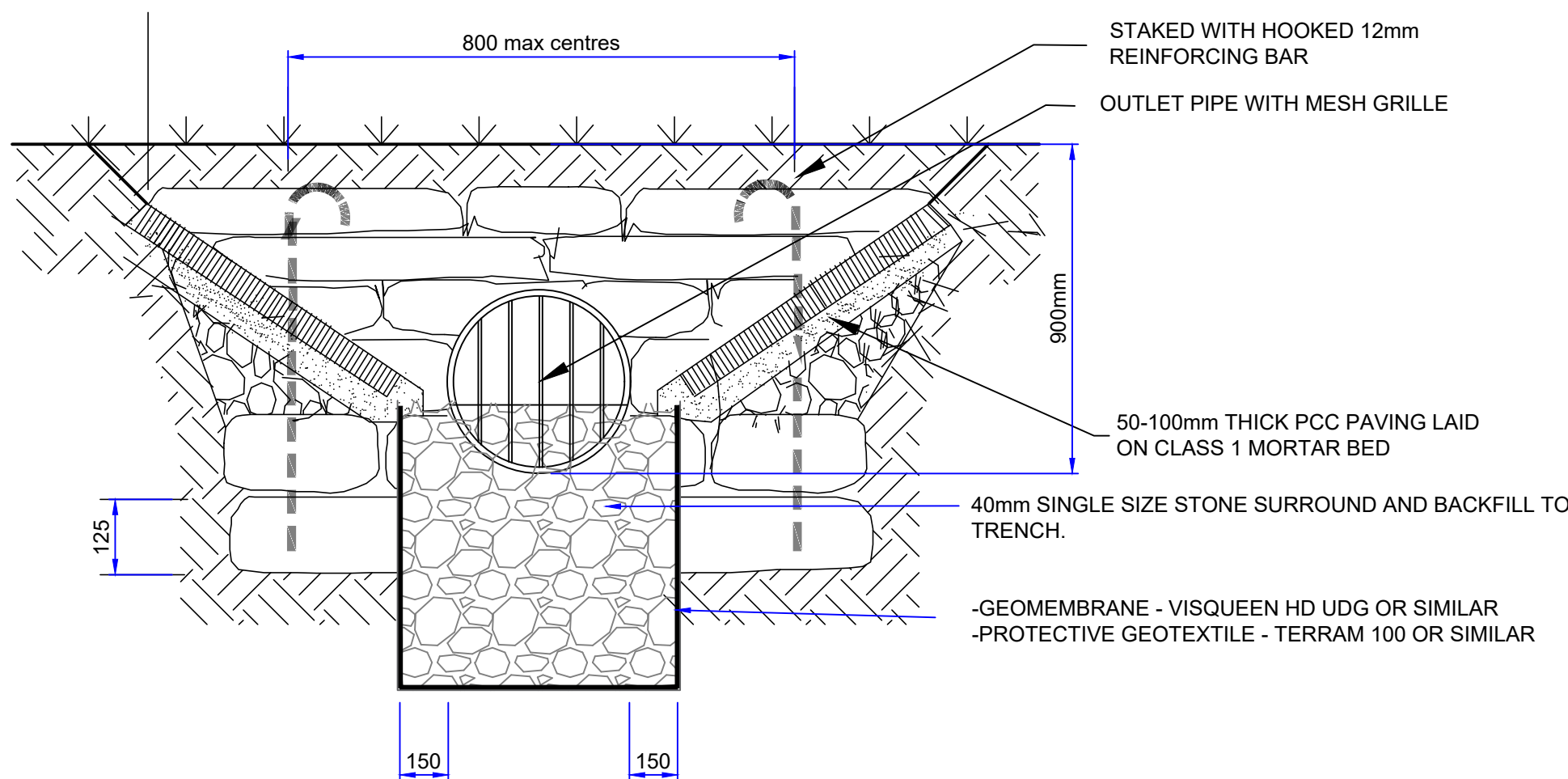
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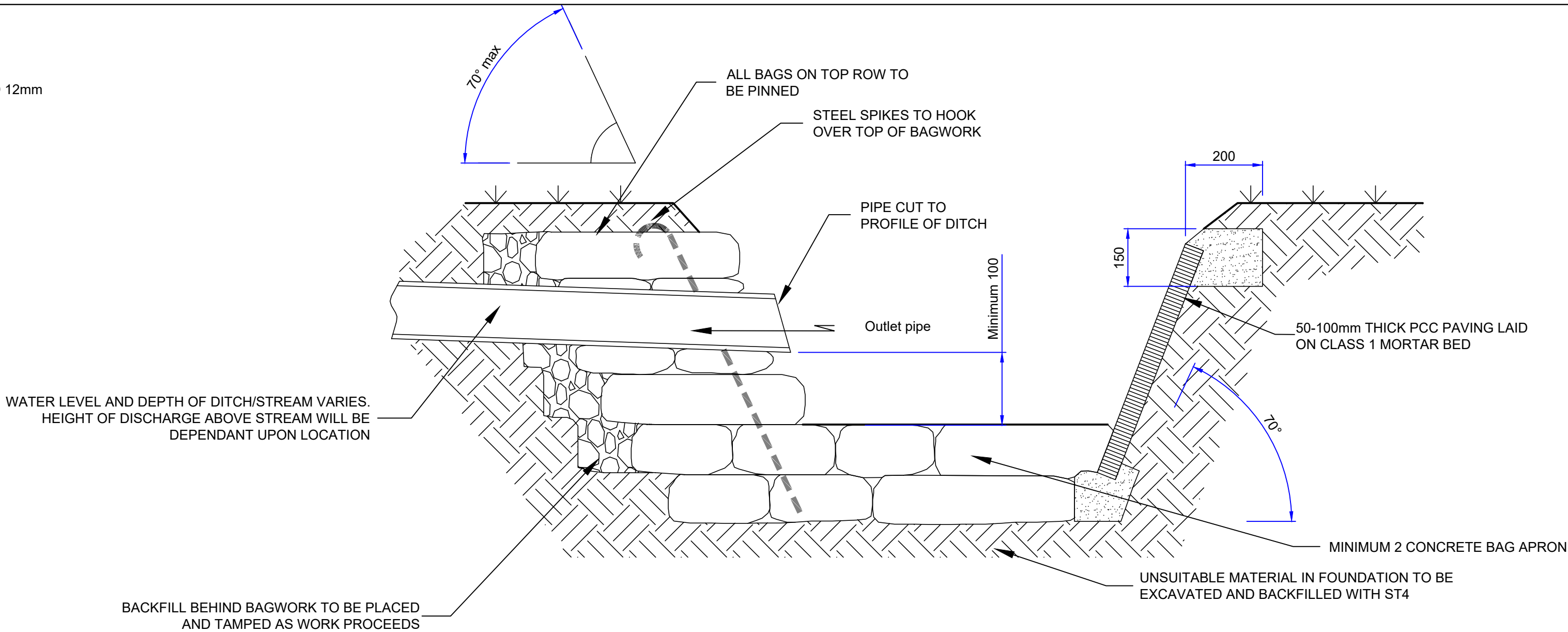
TYPE (1) ELEVATION OF HEADWALL
OUTFALL TO POND / SIDE OF
DITCH



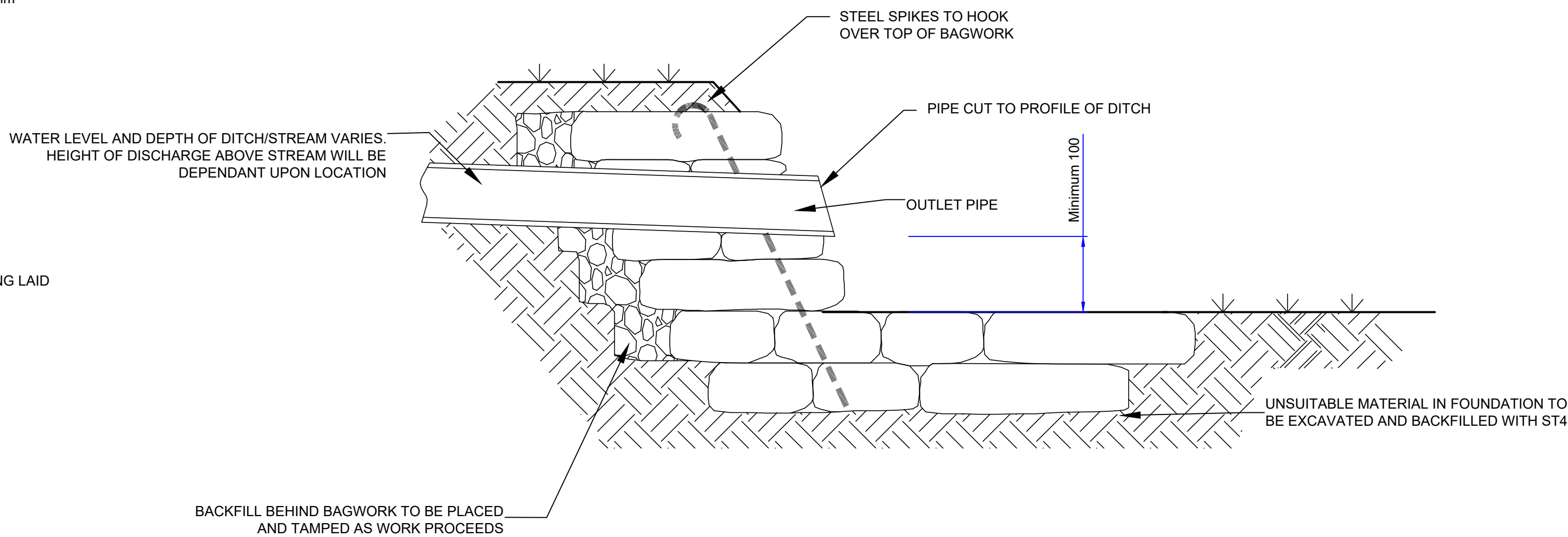
TYPE (1) ELEVATION OF HEADWALL
OUTFALL TO END OF DITCH



TYPE (5) TYPICAL HEADWALL OUTFALL TO
END OF DITCH IN SHINGLE



TYPE (1) HEADWALL SECTION
OUTFALL TO SIDE OF DITCH



TYPE (1) HEADWALL SECTION
OUTFALL TO POND / END OF
DITCH

WSCC S278/38/23 REV A NOTES

- Bags shall be of Hessian or Canvas and shall be of a size to provide a wall thickness of 500mm.
- Concrete bagwork shall be to Clause 519 and be three quarter filled with 25mm slump ST4 concrete immediately prior to placing with the ends sewn.
- The bags shall be placed in a modified Flemish bond so as to 'break joint' with the mouths away from the surface and be tamped into position to form a rectangular block.
- Extent of outlet protection to be the greater of 1500mm or pipe diameter + 1200mm spanning the outlet pipe.
- Headwall design may need to be adjusted to on site conditions following approval from WSCC Inspector.
- For vehicular crossings of ditches pipes shall be min 450mm diam and be set to invert of ditch. Ditch to be reggraded to achieve satisfactory falls.
- For H>600 appropriate vehicular or pedestrian containment shall be installed.
- The nearest edge of any carriageway shall be set back at least H from the base of the ditch.
- All exposed pipework to be certified UV stable.

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GENERAL NOTES

- THIS DRAWING IS INTENDED TO BE VIEWED IN COMBINATION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, SERVICES AND SPECIALIST DRAWINGS AND SPECIFICATION.
- ANY VARIATIONS OR DISCREPANCIES BETWEEN THESE DRAWINGS IN TERMS OF DIMENSIONS OR DETAILS SHOULD BE DRAWN TO THE ATTENTION OF THE ARCHITECT AND/OR THE ENGINEER FOR CLARIFICATION.
- PAUL BASHAM ASSOCIATES ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- ALL DIMENSIONS AND LEVELS ARE IN METRES. DO NOT SCALE THIS DRAWING, PRINT, PLOT OR DISK.
- THIS DRAWING SHOULD ONLY BE USED FOR CONSTRUCTION IF THE PROJECT PHASE IN THE TITLE FRAME BELOW IS SHOWN AS "CONSTRUCTION". PAUL BASHAM ASSOCIATES TAKE NO RESPONSIBILITY FOR CONSTRUCTION WORKS UNDERTAKEN TO DRAWINGS WHICH ARE NOT MARKED UNDER THIS PHASE.

CALA HOMES STANDARD NOTES

- THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS, DRAWINGS, REPORTS AND SURVEYS PROVIDED ON VIEWPOINT PRIOR TO COMMENCING WORK ON SITE. THIS SHALL INCLUDE THE CALA HOMES CONSTRUCTION SPECIFICATION. ANY DISCREPANCIES OR GAPS SHALL BE REPORTED TO THE TECHNICAL DEPARTMENT AT CALA HOMES IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR POSITIVELY IDENTIFYING ALL SERVICES ON-SITE AND REPORTING THE POSITION AND DEPTH TO THE TECHNICAL DEPARTMENT AT CALA HOMES. WHEREVER POSSIBLE NON-INTRUSIVE METHODS, SUCH AS GPR, SHOULD BE USED.
- THE CONTRACTOR IS TO STRIP THE SITE TOPSOIL IN SECTIONS, USING TRACKED EQUIPMENT AND IN DRY CONDITIONS. TOPSOIL AND SUBSOIL ARE TO BE STORED IN SEED STOCKPILES TO PROTECT THEM FROM EROSION. PRIOR TO PLACING TOPSOIL, THE SUBSOIL SHOULD BE RIPPED USING A SINGLE TYNE RIPPER TO A SUITABLE DEPTH TO ENCOURAGE POSITIVE DRAINAGE OF THE SOIL.
- IN-SITU CBR TESTS SHALL BE UNDERTAKEN FOR EACH SECTION OF HIGHWAY AT INTERVALS OF 25M OR LESS. RESULTS TO BE SUBMITTED TO THE TECHNICAL DEPARTMENT AT CALA HOMES FOR APPROVAL PRIOR TO CARRIAGEWAY CONSTRUCTION.
- ALL DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE DESIGN AND CONSTRUCTION GUIDANCE (DCG), AND THE BUILDING REGULATIONS 'APPROVED DOCUMENT H'. ANY DISCREPANCIES SHOULD BE REPORTED TO CALA FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORKS.
- ALL MANHOLE CHAMBER COVERS TO BE INSTALLED PARALLEL TO FINAL KERBS, EDGINGS, PAVING JOINTS OR BUILDING LINES AS APPROPRIATE. THE MANHOLE COVER SHALL BE PLACED ENTIRELY WITHIN ONE SURFACE FINISH.
- THE CONTRACTOR IS TO SEEK APPROVAL FROM THE TECHNICAL DEPARTMENT AT CALA HOMES PRIOR TO ORDERING ANY PERFECT MANHOLES.
- ON COMPLETION OF EACH BUILD AREA THE CONTRACTOR SHALL JET CLEAN AND CCTV ALL DRAINAGE AND PROVIDE A COPY OF THE VIDEO FOOTAGE AND PDF REPORT TO CALA. THE REPORT SHALL INCLUDE AN EXECUTIVE SUMMARY OF THE FINDINGS AND A SCHEMATIC OF THE DRAINAGE LAYOUT.
- PRIOR TO FORMING EACH DWELLING ACCESS, THE CONTRACTOR SHALL CHECK THAT THE AS-BUILT LEVELS COMPLY WITH THE CURRENT VERSION OF THE NHBC TECHNICAL STANDARDS AND THE BUILDING REGULATIONS PART M. IF CLARIFICATION OR DESIGN CHANGE IS REQUIRED, THE CONTRACTOR SHALL AWAIT FURTHER INSTRUCTION FROM CALA BEFORE PROCEEDING.
- THE CONTRACTOR IS TO PROVIDE AS-BUILT RECORDS IN PDF AND DWG FORMAT FOR THE FULL EXTENT OF THE WORKS. THIS IS TO INCLUDE (BUT NOT LIMITED TO) ALL SERVICES, HIGHWAYS, DRAINAGE, RETAINING STRUCTURES, AND ALL EXTERNAL AREAS.

PRELIMINARY

DRAWING/DESIGN IS STILL 'IN DEVELOPMENT'
YOU ARE ADVISED TO MAKE DUE ALLOWANCE

F	PHASE 2 CONSTRUCTION ISSUE	11.09.23	LC	JM
E	CLARIFIED SHINGLE HEADWALL DETAIL AS TYPE 5	14.07.23	LC	JM
D	REMOVED DETAIL	22.03.23	LC	NH
C	NEW DETAIL ADDED	27.01.23	LC	RW
B	UPDATED TO CLIENTS COMMENTS	27.09.22	LC	JC
A	DETAILED DESIGN ISSUE	11.08.22	LC	RW
Rev	Description	Date	By	Chkd

paulbasham associates Paul Basham Associates Ltd The Botby, Cams Hall Estate, Farnham, PO16 8UT 01529 711 000 info@paulbashamassociates.com www.paulbashamassociates.com			
Client CALA			
Project Name LAND NORTH OF WATER LANE ANGMERING			
Title DRAINAGE CONSTRUCTION DETAILS SHEET 5 OF 8			
Project Phase DETAILED DESIGN			
Checked By RW	Checked Date 16.03.22	Drawn By VCE	Drawn Date 01.06.22
Client Drawing No.	-	Scale NTS	(AT A1 SIZE)
PBA Drawing No. 189.5005.530			Revision F

PHASE 2 NORTH EAST (NON-ADOPTABLE)									
MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)		
B8 OUT	---	HEADWALL	25.459	23.100	2.134	507591.364	105218.129		
PS302	1350	Type C	31.735	30.236	1.199	507711.816	105340.624		
PS1493	1350	Type C	30.168	29.043	0.800	507641.427	105303.440		
PS1988	1350	Type C	30.384	29.209	1.025	507634.556	105309.378		
PS1919	1350	Type C	30.006	29.556	1.200	507621.785	105324.693		
PS2175	1350	Type C	30.026	33.601	1.200	507765.680	105407.093		
PS2941	1350	Type C	30.660	29.160	1.200	507719.442	105311.840		
PS3077	1350	Type C	30.540	29.285	1.105	507629.431	105314.382		
S35	1200	Type B	35.493	33.662	1.856	507674.145	105420.421		
S36	1350	Type C	35.481	33.620	1.436	507680.380	105420.075		
S37	1350	Type B	35.767	33.363	1.954	507663.951	105427.811		
S39	1200	Type B	38.886	37.236	1.500	507684.297	105493.902		
S41	1350	Type C	37.953	36.803	1.200	507634.161	105465.714		
S43	1350	Type C	38.770	33.077	3.343	507713.396	105484.205		
S42	1200	Type B	38.420	36.580	1.540	507737.845	105500.283		
S45	1350	Type C	37.107	35.490	1.327	507726.569	105470.848		
S50	1350	Type B	34.642	32.682	1.510	507724.055	105409.106		
S51	1500	Type B	33.239	31.129	1.510	507727.1970	105376.477		
S53	1500	Type B	32.393	29.900	1.883	507699.041	105363.083		
S55	1500	Type B	31.717	29.900	1.526	507641.429	105358.222		
S56	1500	Type B	31.888	29.553	1.735	507622.049	105360.645		
S57	1350	Type C	39.402	38.052	1.200	507610.591	105502.233		
S58	1350	Type C	39.018	37.668	1.200	507607.923	1055491.384		
S60	1350	Type C	37.457	35.957	1.200	507612.115	105451.699		
S62	1350	Type C	35.153	33.578	1.200	507612.592	105412.582		
S63	1350	Type C	33.026	31.451	1.200	507613.388	105403.037		
S239	1500	Type B	29.640	27.422	1.540	507683.821	105279.324		
S2709	1350	Type A	37.578	33.228	3.900	507684.010	105485.147		
S2710	1350	Type B	36.334	33.010	2.874	507727.321	105450.823		
S2711	1500	Type B	32.074	29.524	1.890	507606.782	105345.303		
S2722	1350	Type C	38.288	36.843	1.200	507608.710	105469.656		
S2714	1350	Type A	36.674	33.947	1.378	507722.802	105461.216		
S2715	1500	Unknown	28.806	26.815	1.316	507607.308	105287.370		
S2719	1500	Type B	32.791	30.000	2.191	507714.812	105366.354		
S2718	1350	Type C	37.979	36.554	1.200	507611.387	105482.997		
S2722	1350	Type C	39.215	37.400	1.450	507739.466	105518.727		
S2723	1350	Type B	35.386	34.068	1.150	507684.286	105418.681		
S3063	1350	Type B	29.495	25.825	1.995	507572.031	105259.480		
S3064	1500	Type B	28.678	24.216	1.788	507542.892	105235.671		
S3055	1500	Type B	26.384	24.175	1.534	507542.071	105226.849		
S3069	1350	HEADWALL	25.459	23.100	1.884	507589.400	105218.856		
F105	1350	Type C	40.282	38.732	1.440	507621.785	105324.693		
F112	1350	Type C	35.910	34.426	1.335	507666.057	105434.753		
F112	1350	Type C	37.732	36.382	1.200	507646.581	105462.560		
F113	1200	Type A	37.438	34.038	3.250	507687.023	105453.443		
F114	1200	Type A	36.740	33.330	3.264	507715.798	105481.266		
F115	1350	Type C	39.740	38.340	1.500	507722.798	105524.892		
F116	1200	Type B	36.355	37.400	1.775	507621.785	105324.693		
F117	1200	Type B	36.393	36.560	1.693	507739.723	105459.590		
F119	1200	Type B	36.739	34.550	2.039	507631.580	105462.362		
F121	1200	Type B	36.397	33.251	2.996	507722.546	105453.198		
F121	1200	Type B	36.181	33.207	2.824	507724.134	105447.350		
F123	1200	Type B	34.462	31.230	1.992	507719.334	105379.798		
F124	1200	Type B	32.801	31.000	1.651	507711.899	105367.286		
F126	1200	Type B	31.807	30.086	1.571	507644.021	105360.996		
F127	1200	Type B	39.342	37.692	1.500	507612.288	105499.848		
F128	1200	Type C	38.388	36.930	1.308	507610.015	105473.017		
F129	1350	Type C	30.670	28.270	1.450	507613.979	105461.862		
F130	1200	Type B	32.662	31.180	1.632	507615.862	105372.462		
F131	1200	Type B	31.924	29.819	1.856	507622.929	105352.855		
F141	1200	Type B	38.108	36.208	1.750	507787.427	105477.039		
F145	1350	Type C	35.273	33.323	1.200	507781.955	105411.014		
F146	1350	Type C	33.612	32.262	1.200	507779.029	105372.127		
F147	1350	Type C	31.307	29.757	1.400	507686.102	105321.819		
F148	1200	Type B	30.255	28.520	1.585	507712.127	105302.434		
F152	1350	Type C	31.070	29.720	1.200	507618.806	105329.251		
F153	1200	Type B	29.872	27.860	1.862	507649.601	105296.397		
F158	1200	Type B	29.500	26.830	2.720	507577.143	105275.002		
F160	1350	Type C	39.944	37.320	1.474	507699.801	105498.698		
F696	1200	Type B	37.987	35.929	1.808	507666.145	105475.238		
F697	1200	Type B	29.650	27.250	2.250	507641.565	105278.330		
F700	1200	Type B	35.110	32.780	1.890	507722.109	105418.564		
F701	1200	Type B	32.163	30.480	1.533	507675.466	105363.508		
F703	1200	Type B	35.000	33.310	1.540	507614.226	105406.441		
F706	1200	Type B	37.133	34.940	2.043	507703.912	105460.605		
F707	1200	Type B	34.248	32.310	1.788	507720.631	105398.795		
F708	1350	Type B	30.617	28.887	1.580	507729.607	105306.088		
F712	1200	Type C	37.010	35.310	1.550	507764.488	105451.099		
F713	1350	Type C	36.157	34.837	1.200	507764.434	105452.572		
F714	1200	Type B	32.127	30.370	1.607	507767.144	105340.695		
F715	1350	Type C	30.323	29.036	1.137	507630.500	105307.786		

REFER TO DESIGN & CONSTRUCTION GUIDANCE (21 MAY 2021)

I.C. = INSPECTION CHAMBER

CATCH PIT DEPTH=300mm

PHASE 2 NORTH EAST (PRIVATE)									
MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)		
PS1540	450	Type E	38.455	37.830	0.525	507613.900	105473.103		
PS1541	450	Type E	38.454	37.964	0.400	507624.617	105473.323		
PS1545	450	Type E	38.966	37.800	1.066	507613.611	105488.995		
PS1549	450	Type E	38.750	38.010	0.260	507627.485	105497.013		
PS1550	450	Type E	39.788	39.268	0.400	507630.834	105508.407		
PS1553	450	Type E	40.000	39.374	0.526	507617.932	105513.059		
PS1559	450	Type E	38.839	38.239	0.500	507626.492	105489.226		
PS1565	450	Type E	38.363	37.863	0.900	507634.323	105474.575		
PS1568	450	Type E	38.522	37.928	0.500	507634.480	105484.121		
PS1570	450	Type E	38.146	37.907	0.900	507645.783	105472.427		
PS1571	450	Type E	38.428	37.700	0.622	507646.092	105484.096		
PS1577	450	Type E	38.449	37.141	1.207	507660.618	105485.335		
PS1579	450	Type E	38.214	37.294	0.821	507660.368	105474.266		
PS1584	450	Type E	37.868	38.868	0.900	507670.129	105474.297		
PS1585	450	Type E	38.397	37.258	1.039	507670.288	105483.382		
PS1589	450	Type E	37.536	36.352	1.034	507690.524	105471.953		
PS1589	450	Type E	37.827	36.760	0.767	507682.537	105474.076		
PS1590	450	Type E	38.635	38.856	0.879	507682.652	105479.920		
PS1594	450	Type E	37.666	38.808	0.778	507690.770	105485.664		
PS1596	450	Type E	38.666	36.960	0.686	507696.302	105485.503		
PS1597	450	Type E	37.367	38.010	1.207	507714.292	105472.498		
PS1601	450	Type E	37.968	36.321	1.467	507720.238	105485.990		
PS1602	450	Type E	37.367	36.400	1.467	507726.523	105485.270		
PS1607	450	Type E	37.270	36.030	1.071	507726.120	105471.028		
PS1608	450	Type E	37.670	36.520	0.900	507737.109	105476.038		
PS2033	450	Type E	37.756	37.268	0.400	507742.440	105471.953		
PS1611	450	Type E	37.678	37.378	0.400	507750.256	105477.565		
PS1618	450	Type E	38.276	37.276	0.900	507741.524	105482.967		
PS1622	450	Type E	38.607	37.907	0.600	507747.847	105487.175		
PS1623	450	Type E	38.641	38.141	0.400	507753.972	105496.668		
PS1628	450	Type E	38.073	37.073	0.900	507728.035	105489.894		
PS1629	450	Type E	38.101	37.521	0.480	507727.416	105498.374		
PS1628	450	Type E	38.096	37.596	0.400	507721.405	105498.774		
PS1631	450	Type E	36.748	35.890	0.708	507732.497	105464.182		
PS1632	450	Type E	36.900	36.068	0.732	507744.858	105466.634		
PS1633	450	Type E	36.647	36.152	0.395	507747.915	105460.847		
PS1637	450	Type E	36.128	35.440	0.586	507746.828	105446.182		
PS1639	450	Type E	36.129	35.480	0.549	507746.763	105443.533		
PS1642	450	Type E	35.674	34.874	0.900	507735.149	105428.447		
PS1643	450	Type E	36.010	35.459	0.451	507747.678	105437.383		
PS1643	450	Type E	35.045	34.442	0.503	507734.546	105414.387		
PS1650	450	Type E	35.173	34.526	0.547	507742.831	105413.783		
PS1653	450	Type E	34.384	33.844	0.540	507734.546	105424.627		
PS1654	450	Type E	34.383	33.800	0.583	507747.847	105454.243		
PS1654	450	Type E	36.452	35.850	0.402	507746.911	105404.414		
PS1661	450	Type E	40.471	39.776	0.545	507658.920	105527.246		
PS1663	450	Type E	40.572	39.862	0.550	507646.005	105528.440		
PS1665	450	Type E	40.604	39.864	0.540	507646.005	105528.440		
PS1665	450	Type E	40.896	40.126	0.634	507628.400	105520.383		
PS1666	450	Type E	40.828	40.296	0.402	507631.980	105510.147		
PS1670	450	Type E	40.767	40.085	0.581	507645.186	105514.630		
PS1672	450	Type E	40.738	40.127	0.511	507648.516	105514.381		
PS1675	450	Type E	40.738	40.127	0.511	507648.516	105514.381		
PS1686	450	Type E	40.250	39.392	0.758	507664.889	105524.693		
PS1687	450	Type E	39.793	39.193	0.500	507669.673	105512.937		
PS1699	450	Type E	39.819	38.604	0.969	507720.143	105520.952		
PS1700	450	Type E	39.852	38.724	0.953	507720.437	105515.732		
PS1701	450	Type E	39.852	38.724	0.953	507720.437	105515.732		
PS1702	450	Type E	39.958	39.360	0.538	507689.962	105505.891		
PS1705	450	Type E	39.893	39.203	0.550	507704.583	105506.869		
PS1712	450	Type E	39.749	39.249	0.400	507719.187	105503.728		
PS1715	450	Type E	38.821	38.121	0.600	507736.217	105507.223		
PS1725	450	Type E	38.728	38.028	0.700	507736.217	105507.223		
PS1727	450	Type E	39.336	38.096	1.100	507769.220	105518.483		
PS1728	450	Type E	38.898	38.198	0.600	507744.433	105506.880		
PS1732	450	Type E	39.094	38.318	0.675	507758.930	105505.858		
PS1733	450	Type E	39.154	38.393	0.661	507764.944	105504.576		
PS1747	450	Type E	38.675	38.675	0.400	507764.944	105504.576		
PS1750	1200	Type E	37.303	36.860	0.400	507763.609	105457.023		
PS1752	1200	Type E	38.106	36.756	1.200	507764.888	105470.067		
PS1753	450	Type E	38.599	37.760	0.709	507780.488	105490.579		
PS1754	450	Type E	38.969	37.969	0.400	507769.929	105490.580		
PS1755	450	Type E	38.969	37.969	0.400	507769.929	105490.580		
PS1768	450	Type E	38.387	37.887	0.400	507768.536	105479.332		
PS1769	450	Type E	37.406	36.280	1.026	507769.787	105459.418		
PS1770	450	Type E	37.173	36.673	0.400	507758.507	105460.156		
PS1773	450	Type E	35.006	35.106	0.400	507774.221	105410.272		
PS1774	450	Type E	35.691	34.888	0.553	507769.698	105423.633		
PS1776	450	Type E	35.691	34.888	0.553	507769.698	105423.633		
PS1777	450	Type E	35.886	35.536	1.200	507781.920	105446.516		
PS1778	450	Type E	37.764	35.984	0.700	507765.242	105450.357		
PS1779	450	Type E	37.208	36.356	0.750	507765.591	105455.118		
PS1780	450	Type E	36.721	35.837	0.684	507765.591	105455.118		
PS1782	450	Type E	37.127	35.176	1.615	507770.299	105445.387		
PS1792	450	Type E	35.620	34.910	0.550	507768.067	105413.129		
PS1795	450	Type E	33.527	32.532	0.780	507770.663	105385.819		
PS1796	450	Type E	34.260	33.070	1.040	507775.658	105364.018		
PS1797	450	Type E	34.458	33.488	0.950	507755.925	105369.784		
PS1798	450	Type E	34.458	33.488	0.950	507755.925	105369.784		
PS1800	450	Type E	34.763	34.148	0.516	507765.747	105402.087		
PS1802	450	Type E	34.565	33.866	0.598	507763.417	105389.245		
PS1808	450	Type E	33.833	33.333	0.400	507761.655	105384.812		
PS1812	450	Type E	33.662	33.130	0.432	507738.479	105389.525		
PS1813	450	Type E	33.613	33.133	0.400	507738.479	105389.525		
PS1818	1200	Type E	33.991	33.785	0.900	507762.367	105393.620		
PS1824	1200	Type E	33.599	33.149	0.900	507768.145	105350.626		
PS1825	450	Type E	32.028	32.220	0.708	507751.062	105369.770		
PS1826	450	Type E	33.124	32.500	0.614	507756.676	105389.178		
PS1830	450	Type E	33.124	32.500	0.614	507756.676	105389.178		
PS1840	450	Type E	31.553	30.970	0.933	507733.472	105313.277		
PS1842	450	Type E	31.205	30.190	0.864	507741.850	105318.039		
PS1843	450	Type E	31.601	30.751	0.750	507753.576	105328.360		
PS1845	450	Type E	31.970	31.441	0.429	507740.735	105333.773		
PS1851	450	Type E	31.618	31.044	0.448	507740.735	105333.773		
PS1854	450	Type E	31.953	30.400	0.653	507733.612	105321.634		
PS1859	450	Type E	31.280	30.580	0.600	507721.951	105324.767		
PS1862	450	Type E	30.488	29.824	0.964	507714.398	105311.025		
PS1863	450	Type E	30.629	29.988	0.531	507710.898	105321.094		
PS1864	450	Type E	30.629	29.988	0.531	507710.898	105321.094		
PS1866	450	Type E	30.403	29.877	0.626	507699.587	105315.050		
PS1873	450	Type E	29.804	29.291	0.484	507678.618	105306.446		
PS1874	450	Type E	30.030	29.406	0.524	507683.924	105308.022		
PS1875	450	Type E	30.304	29.539	0.665	507693.508	105318.669		
PS1876	450	Type E	30.291	29.704	0.455	507693.508	105318.669		
PS1883	450	Type E	30.024	29.618	0.911	507679.398	105319.602		
PS1884	450	Type E	30.215	29.502	0.613	507671.973	105315.146		
PS1892	450	Type E	30.263	29.662	0.500	507660.569	105316.766		
PS1893	450	Type E	30.600	30.100	0.400	507648.433	105321.087		
PS1898	450	Type E	31.252	30.553	0.600	507763.963	105332.201		
PS1900	450	Type E	31.615	30.442	0.800	507763.963	105332.201		
PS1902	450	Type E	31.787	30.820	0.867	507625.824	105343.744		
PS1933	450	Type E	31.856	30.856	0.900	507644.565	105348.753		
PS1935	450	Type E	31.909	31.407	0.402	507639.478	105348.026		
PS1936	450	Type E	31.795	31.295	0.400	507645.364	105348.026		
PS1940	450	Type E	32.242	30.952	1.140	507672.749	105353.968		
PS1942	450								

PHASE 2 NORTH WEST (NON-ADOPTABLE) SURFACE									
MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)		
PS133	1350	Type C	32.523	31.123	1.100	507575.063	105338.150		
PS2894	1350	Type C	29.727	28.105	1.173	507570.253	105277.087		
PS3000	1500	Unknown	29.150	27.617	0.858	507564.373	105270.805		
S75	1350	Type C	38.883	37.532	1.200	507334.978	105535.121		
S76	1350	Type C	38.495	36.920	1.200	507330.609	105523.107		
S77	1350	Type C	37.802	36.902	1.350	507327.682	105501.589		
S78	1350	Type C	37.803	35.831	1.523	507383.355	105496.633		
S79	1350	Type C	39.137	37.787	1.200	507418.392	105541.617		
S81	1350	Type B	38.069	35.729	1.890	507461.262	105493.795		
S82	1350	Type B	38.321	35.637	2.234	507449.528	105490.939		
S83	1350	Type B	38.503	35.567	2.486	507467.760	105494.721		
S84	1350	Type B	38.404	35.499	2.545	507487.688	105474.716		
S85	1350	Type B	38.261	35.432	2.379	507505.242	105461.916		
S86	1350	Type B	38.062	35.359	2.253	507512.316	105444.726		
S89	1350	Type B	38.966	34.450	2.066	507486.451	105420.207		
S90	1350	Type C	35.539	34.038	1.200	507535.124	105390.583		
S92	1350	Type B	38.435	33.488	2.500	507491.807	105409.830		
S93	1350	Type C	35.403	34.223	1.030	507433.393	105427.127		
S94	1350	Type C	36.858	35.355	1.353	507484.475	105448.285		
S95	1200	Type B	38.086	34.022	1.840	507511.645	105328.250		
S97	1500	Type B	36.039	33.120	2.469	507487.687	105403.154		
S99	1500	Type B	34.424	32.150	1.824	507473.515	105372.107		
S100	1350	Type C	33.333	31.373	1.510	507481.048	105349.321		
S101	1350	Type C	32.581	30.788	1.343	507541.742	105330.794		
S102	1350	Type C	32.272	30.587	1.235	507511.645	105328.250		
S103	1500	Type B	32.583	30.358	1.700	507489.603	105335.267		
S104	1500	Type B	32.277	30.243	1.510	507484.381	105329.803		
S105	1500	Type B	31.750	29.715	1.510	507447.448	105320.469		
S106	1500	Type B	31.359	29.324	1.510	507481.035	105313.411		
S107	1500	Type B	30.367	28.332	1.510	507481.432	105292.853		
S108	1500	Type B	29.324	27.299	1.501	507483.275	105270.884		
S109	1500	Type C	33.714	32.364	1.200	507446.085	105373.996		
S110	1350	Type C	32.616	30.930	1.386	507420.137	105375.080		
S111	1350	Type C	31.241	29.742	1.200	507419.599	105347.202		
S113	1350	Type C	30.988	29.188	1.500	507457.035	105315.751		
S114	1350	Type B	29.842	27.867	1.600	507417.948	105317.441		
S115	1350	Type C	29.344	27.737	1.232	507416.400	105294.374		
S116	1350	Type C	29.000	27.627	0.986	507411.594	105280.057		
S1418	1350	Type C	33.461	32.304	0.961	507565.987	105355.407		
S1433	1350	Type C	35.473	34.123	1.200	507564.208	105394.534		
S1453	1350	Type C	36.384	34.959	1.200	507559.459	105411.613		
S1454	1350	Type C	37.107	35.882	1.200	507553.205	105424.354		
S1466	1350	Type C	35.921	34.498	1.200	507624.474	105403.229		
S1468	1350	Type C	38.149	36.739	1.200	507539.965	105442.137		
S2707	1350	Type C	33.117	31.692	1.200	507420.857	105391.374		
S2708	1350	Type C	28.917	27.722	0.820	507413.036	105291.002		
S3072	1350	Type C	34.604	33.354	1.100	507565.575	105377.661		

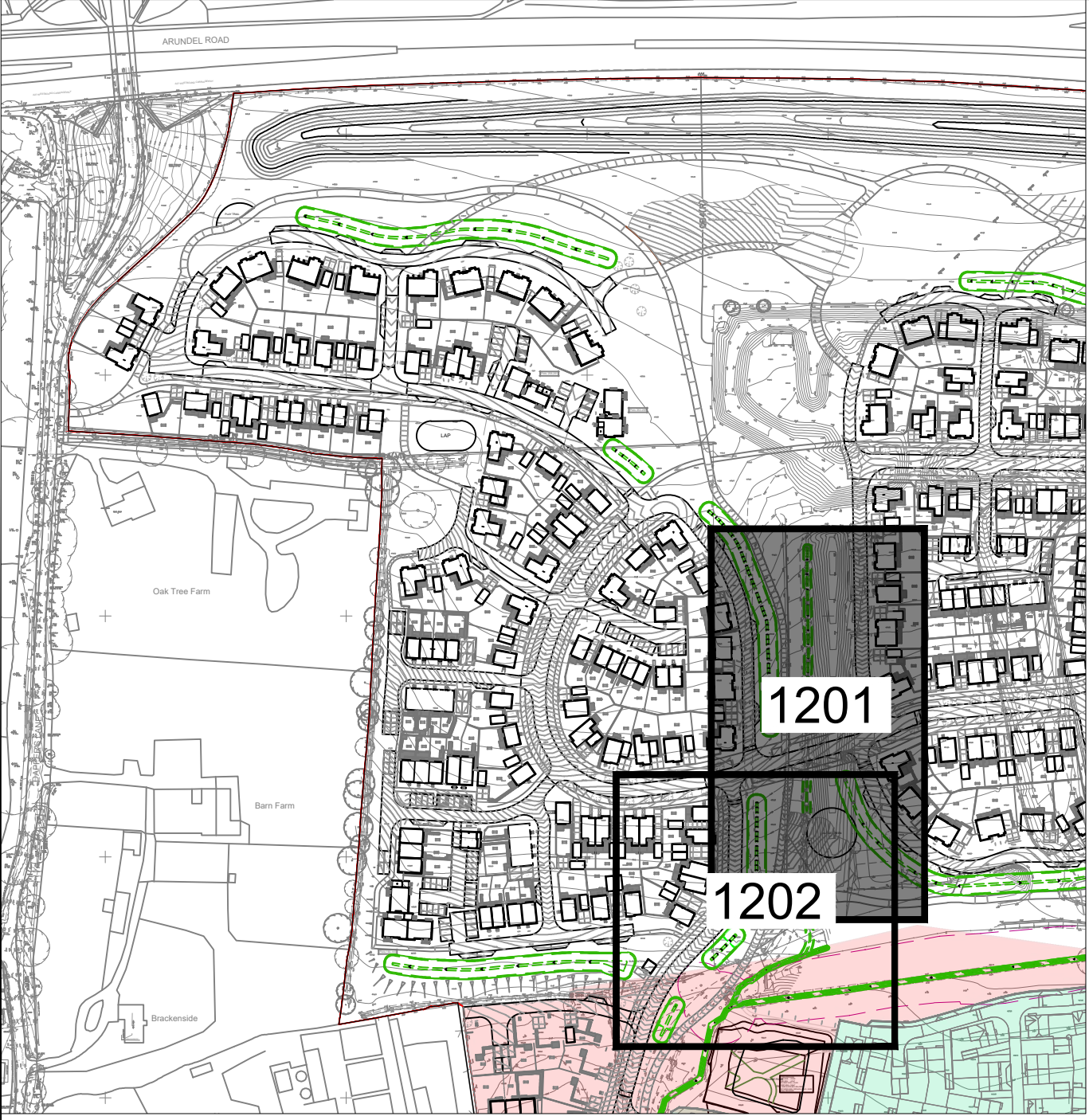
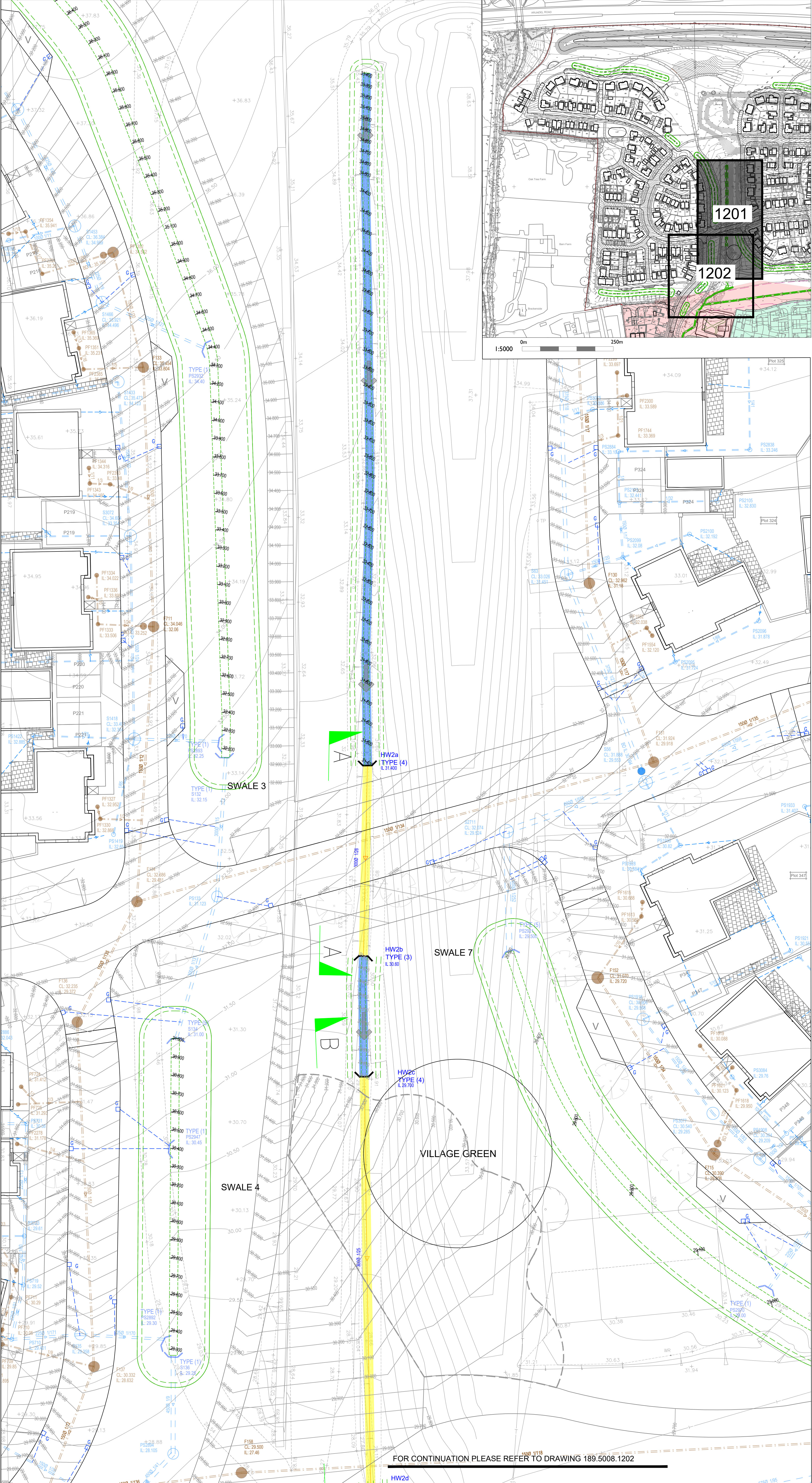
REFER TO DESIGN & CONSTRUCTION GUIDANCE (21 MAY 2021)

PHASE 2 NORTH WEST (PRIVATE) SURFACE									
MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)		
PS700	450	Type E	28.104	27.423	0.580	507525.347	105258.766		
PS702	450	Type E	29.277	28.377	0.800	507536.813	105269.813		
PS704	450	Type E	29.807	28.757	0.900	507548.182	105279.808		
PS705	450	Type E	29.978	28.978	0.900	507538.821	105284.633		
PS710	450	Type E	30.708	29.401	1.082	507552.553	105289.621		
PS719	450	Type E	30.930	29.503	1.185	507553.828	105295.962		
PS723	450	Type E	31.143	29.610	1.388	507553.935	105300.948		
PS724	450	Type E	30.825	30.212	0.513	507542.077	105296.391		
PS725	450	Type E	30.807	30.307	0.400	507537.565	105294.191		
PS731	450	Type E	31.758	30.580	0.953	507554.191	105313.240		
PS732	450	Type E	32.398	31.888	0.400	507533.110	105316.537		
PS733	450	Type E	32.703	31.910	0.693	507543.808	105322.282		
PS736	450	Type E	33.183	32.290	0.793	507545.189	105343.017		
PS739	450	Type E	33.015	32.140	0.725	507540.636	105341.894		
PS780	450	Type E	33.054	32.454	0.500	507539.741	105349.794		
PS784	450	Type E	32.774	31.640	0.984	507530.995	105339.095		
PS785	450	Type E	33.068	32.340	0.827	507529.438	105349.730		
PS792	450	Type E	32.394	31.039	1.205	507513.734	105319.048		
PS793	450	Type E	32.468	31.286	1.083	507529.428	105319.156		
PS799	450	Type E	32.156	31.356	0.702	507516.249	105306.626		
PS800	450	Type E	32.135	31.451	0.584	507521.289	105303.640		
PS806	450	Type E	32.145	31.389	0.657	507508.731	105299.581		
PS810	450	Type E	31.776	29.776	0.900	507489.682	105298.776		
PS812	450	Type E	31.756	30.971	0.686	507486.575	105323.243		
PS813	450	Type E	31.819	31.072	0.647	507493.417	105323.097		
PS815	450	Type E	32.098	31.598	0.400	507497.995	105303.484		
PS823	450	Type E	32.125	31.125	0.900	507485.719	105306.487		
PS827	450	Type E	31.460	30.855	0.510	507486.404	105312.594		
PS831	450	Type E	32.260	31.260	0.900	507503.279	105318.116		
PS832	450	Type E	29.509	28.828	0.581	507488.851	105274.081		
PS833	450	Type E	29.687	28.969	0.618	507488.110	105281.563		
PS837	450	Type E	28.930	27.505	1.200	507512.054	105288.259		
PS841	450	Type E	29.070	27.720	1.200	507487.968	105286.790		
PS842	450	Type E	29.612	29.112	0.400	507486.078	105283.932		
PS846	450	Type E	29.566	29.066	0.400	507500.921	105283.632		
PS855	450	Type E	29.242	28.422	0.900	507510.527	105284.756		
PS860	450	Type E	29.430	28.930	0.400	507522.551	105285.852		
PS865	450	Type E	29.788	29.249	0.484	507479.968	105284.484		
PS868	450	Type E	29.354	27.929	1.200	507477.252	105270.511		
PS869	450	Type E	29.287	28.687	0.500	507465.847	105280.326		
PS874	450	Type E	29.021	28.146	0.650	507455.276	105286.264		
PS875	450	Type E	29.225	28.725	0.400	507454.182	105279.078		
PS878	1200	Type E	28.821	27.445	1.150	507446.556	105283.751		
PS879	1200	Type E	29.122	27.950	1.307	507446.340	105280.211		
PS880	1200	Type E	29.447	27.755	1.510	507446.749	105288.637		
PS881	450	Type E	28.832	27.750	0.932	507443.042	105283.328		
PS883	450	Type E	29.011	28.501	0.400	507421.676	105283.950		
PS886	450	Type E	29.015	28.010	0.905	507437.554	105276.985		
PS887	450	Type E	29.055	28.317	0.584	507427.524	105277.721		
PS894	450	Type E	29.013	28.413	0.500	507413.742	105280.640		
PS895	450	Type E	29.137	28.637	0.400	507415.468	105278.179		
PS899	450	Type E	29.218	28.480	0.738	507418.675	105291.215		
PS900	450	Type E	29.124	28.593	0.431	507427.627	105287.655		
PS901	450	Type E	29.138	28.637	0.450	507427.655	105287.369		
PS906	450	Type E	29.447	28.750	0.597	507420.119	105293.010		
PS907	450	Type E	29.412	28.912	0.400	507431.301	105292.429		
PS912	450	Type E	29.981	28.820	1.041	507422.385	105312.798		
PS913	450	Type E	30.307	29.007	1.200	507437.349	105312.286		
PS914	450	Type E	29.600	28.100	0.400	507436.978	105304.625		
PS918	450	Type E	30.540	29.085	1.350	507445.788	105313.952		
PS919	450	Type E	30.126	29.126	0.900	507445.385	105303.921		
PS921	450	Type E	30.963	29.976	0.887	507456.818	105310.893		
PS922	450	Type E	30.573	30.073	0.400	507456.465	105303.146		
PS924	450	Type E	31.127	29.950	1.077	507461.924	105313.341		
PS925	450	Type E	31.179	30.578	0.500	507460.323	105313.726		
PS927	450	Type E	30.780	30.180	0.500	507462.532	105306.566		
PS929	450	Type E	30.609	29.820	0.689	507468.638	105294.359		
PS932	450	Type E	30.698	30.198	0.400	507423.249	105341.023		
PS934	450	Type E	31.924	31.424	0.400	507423.808	105355.800		
PS936	450	Type E	32.530	31.678	0.752	507433.899	105353.867		
PS939	450	Type E	32.594	32.072	0.422	507423.831	105369.990		
PS943	450	Type E	33.773	32.473	1.150	507448.454	105369.092		
PS944	450	Type E	32.315	32.213	0.902	507434.719	105370.390		
PS947	450	Type E	33.620	32.620	0.900	507447.979	105359.798		
PS949	450	Type E	32.983	31.624	1.199	507426.326	105380.739		
PS950	450	Type E	32.488	32.488	0.500	507426.533	105373.680		
PS951	450	Type E	33.678	32.678	0.900	507440.179	105389.873		
PS957	450	Type E	33.356	32.619	0.587	507424.979	105396.111		
PS958	450	Type E	33.655	32.816	0.689	507440.693	105395.333		
PS961	450	Type E	33.780	34.080	0.600	507469.297	105377.725		
PS962	450	Type E	34.711	33.711	0.900	507469.297	105378.794		
PS965	450	Type E	34.489	34.070	1.249	507473.690	105390.004		
PS971	450	Type E	35.475	34.474	0.900	507474.755	105394.424		
PS972	450	Type E	35.682	35.039	0.543	507464.998	105397.409		
PS977	450	Type E	36.157	35.187	0.900	507480.852	105405.573		
PS978	450	Type E	36.305	35.885	0.900	507480.164	105405.948		
PS982	450	Type E	36.258	36.258	0.700	507481.085	105421.540		
PS986	450	Type E	35.706	35.206	0.400	507457.527	105404.631		
PS988	450	Type E	35.588	34.988	0.500	507458.789	105421.816		
PS989	450	Type E	35.506	35.406	0.400	507464.524	105416.152		
PS990	450	Type E	35.320	34.400	0.650	507460.838	105414.917		
PS991	450	Type E	34.488	34.488	0.500	507458.153	105413.680		
PS999	450	Type E	35.071	34.571	0.400	507422.795	105410.704		
PS1003	450	Type E	35.502	35.858	0.545	507452.051	105423.923		
PS1005	450	Type E	36.749	35.510	1.089	507484.382	105426.607		
PS1007	450	Type E	38.811	36.937	0.784	507489.856	105435.039		
PS1008	450	Type E	38.428	37.428	0.900	507489.856	105435.039		
PS1015	450	Type E	38.881	36.907	0.674	507471.030	105426.841		
PS1017	450	Type E	36.223	35.723	0.400	507449.970	105425.587		
PS1025	450	Type E	37.513	36.817	0.600	507454.003	105458.561		
PS1028	450	Type E	37.039	36.427	0.512	507472.826	105419.448		
PS1030	450	Type E	37.421	36.721	0.600	507472.826	105419.448		
PS1034	450	Type E	35.020	35.020	0.920	507422.527	105325.979		
PS1036	450	Type E	35.982	35.080	0.750	507440.633	105328.558		
PS1037	450	Type E	31.283	30.420	0.763	507452.958	105327.911		
PS1038	450	Type E	31.147	30.647	0.400	507453.706	105341.561		
PS1040	450	Type E	31.124	30.843	0.381	507456.384	105341.561		
PS1041	450	Type E	30.777	30.533	0.146	507471.303	105342.119		
PS1051	450	Type E	31.961	31.340	0.521	507471.505	105326.784		
PS1052	450	Type E	32.382	31.640	0.642	507480.432	105333.994		
PS1054	450	Type E	32.703	31.750	0.853	507475.912	105339.975		
PS1059	450	Type E	33.463	32.113	1.200	507474.893	105346.300		
PS1060	450	Type E	33.463	32.113	1.200	507474.893	105346.300		
PS1066	450	Type E	33.700	33.200	0.400	507459.920	105343.136		
PS1069	450	Type E	34.058	33.008	0.900	507471.685	105360.043		
PS1070	450	Type E	33.874	33.374	0.400	507460.989	105359.250		
PS1073	450	Type E	34.253	33.610	0.543	507470.634	105368.996		
PS1074	450	Type E	34.253	33.610	0.543	507470.634	105368.996		
PS1082	450	Type E	37.203	36.210	0.980	507490.298	105426.297		
PS1089	450	Type E	37.722	36.850	0.722	507501.808	105435.387		
PS1092	450	Type E	37.838	36.902	0.781	507503.070	105439.334		
PS1093	450	Type E	36.992	37.592	0.400	507489.281	105452.110		
PS1094	450	Type E	36.992	37.592	0.400	507489.281	105452.110		
PS1098	450	Type E	36.325	35.325	0.900	507505.765	105453.123		
PS1098	450	Type E	36.325	35.325	0.900	507505.765	105453.123		
PS1101	450	Type E	36.536	37.486	0.900	507482.002	105463.783		
PS1103</									

PHASE 2 NORTH WEST (NON-ADOPTABLE) SURFACE										
MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING	NORTHING		
F58	1200	Type B	D400	39.501	37.391	1.960	507471.180	105550.293		
F60	1200	Type B	D400	39.324	37.114	2.060	507448.118	105562.629		
F62	1200	Type B	D400	39.219	36.919	2.150	507420.764	105545.746		
F65	1200	Type B	D400	39.025	37.550	1.525	507338.709	105538.928		
F66	1200	Type B	D400	38.510	36.790	1.570	507332.993	105524.289		
F67	1350	Type C	D400	37.865	36.364	1.350	507331.431	105503.806		
F68	1200	Type B	D400	37.918	35.953	1.815	507386.861	105498.972		
F69	1200	Type B	D400	38.174	35.717	2.307	507416.574	105496.246		
F70	1200	Type B	D400	38.432	35.473	2.809	507451.327	105491.967		
F71	1200	Type A	D400	38.606	35.293	3.163	507474.324	105484.294		
F72	1200	Type A	D400	38.493	35.114	3.229	507495.317	105472.380		
F74	1200	Type A	D400	38.147	34.813	3.184	507524.575	105444.483		
F76	1200	Type B	E600	37.501	34.665	2.685	507510.461	105430.240		
F77	1200	Type B	E600	37.093	34.240	2.703	507502.533	105421.139		
F78	1200	Type B	D400	35.693	33.630	1.913	507524.295	105392.513		
F79	1200	Type A	E600	36.339	32.920	3.269	507492.957	105406.726		
F80	1200	Type B	D400	36.294	33.529	2.615	507449.956	105430.910		
F82	1200	Type A	D400	36.648	33.360	3.138	507468.425	105417.613		
F86	1200	Type A	E600	36.153	32.510	3.493	507491.158	105403.438		
F83	1200	Type B	E600	35.530	32.418	2.962	507486.171	105392.087		
F84	1200	Type B	E600	34.490	32.266	2.074	507481.144	105372.229		
F85	1200	Type B	E600	33.535	31.590	1.795	507482.334	105353.183		
F86	1200	Type B	E600	32.201	30.120	1.931	507515.512	105325.799		
F87	1200	Type B	E600	32.261	30.018	2.093	507501.874	105328.012		
F88	1200	Type B	E600	32.734	29.900	2.684	507489.954	105338.577		
F89	1200	Type B	D400	32.070	29.310	2.610	507478.545	105326.358		
F90	1200	Type B	D400	31.373	29.020	2.203	507483.337	105314.761		
F91	1200	Type B	D400	30.627	28.450	2.027	507483.027	105298.469		
F92	1200	Type B	D400	32.998	31.030	1.818	5075427.559	105377.283		
F93	1200	Type B	D400	32.625	30.610	1.865	507416.160	105376.800		
F96	1350	Type C	D400	30.586	29.237	1.201	507441.361	105318.438		
F97	1350	Type C	D400	29.835	28.685	1.000	507415.895	105319.479		
F98	1200	Type B	D400	29.306	27.480	1.676	507414.605	105296.051		
F99	1350	Type B	D400	28.900	26.848	1.901	507408.628	105262.609		
F100	1200	Type B	D400	28.708	26.578	1.980	507445.441	105261.291		
F101	1200	Type B	D400	29.186	26.272	2.784	507485.961	105267.532		
F102	1200	Type B	D400	28.930	26.034	2.746	507517.896	105270.698		
F133	1350	Type C	D400	35.454	33.804	1.500	507566.980	105396.121		
F134	1200	Type A	E600	32.686	29.481	3.055	507566.286	105337.579		
F136	1200	Type B	E600	32.235	29.372	2.714	507559.730	105324.386		
F137	1200	Type B	E600	30.332	28.652	1.550	507561.572	105286.635		
F138	1200	Type B	D400	29.881	26.430	3.000	507556.169	105272.229		
F140	1200	Type A	E600	27.475	24.025	3.300	507527.565	105239.358		
F692	1200	Type B	D400	29.200	27.080	1.970	507410.963	105295.958		
F695	1200	Type A	D400	38.244	34.961	3.143	507512.148	105458.252		
F698	1200	Type B	E600	28.418	25.538	2.430	507538.624	105254.831		
F699	1350	Type C	D400	37.746	36.159	1.430	507559.214	105261.407		
F704	1350	Type C	D400	39.271	37.921	1.200	507505.839	105526.620		
F705	1350	Type C	D400	39.398	38.048	1.200	5075392.578	105554.669		
F709	1200	Type B	D400	28.539	25.920	2.469	507530.400	105261.658		
F710	1200	Type B	D400	39.443	37.703	1.590	507493.711	105539.234		
F711	1200	Type B	D400	34.046	32.080	1.836	507568.103	105367.709		
F716	1200	Type B	D400	36.128	33.205	2.773	507502.259	105402.507		

REFER TO DESIGN & CONSTRUCTION GUIDANCE (21 MAY 2021)

PHASE 2 NORTH WEST (PRIVATE) FOUL										
MH NO.	MANHOLE DIAMETER	MANHOLE TYPE	COVER LEVEL	INVERT LEVEL	DEPTH TO SOFFIT	EASTING	NORTHING			
PF709	450	Type E	30.641	29.850	0.891	507551.547	105288.089			
PF710	450	Type E	30.868	30.050	0.718	507551.494	105290.682			
PF711	450	Type E	30.998	30.290	0.698	507552.487	105294.242			
PF712	450	Type E	31.068	30.329	0.639	507553.054	105297.185			
PF721	450	Type E	30.495	29.895	0.500	507550.791	105286.614			
PF724	450	Type E	32.012	31.412	0.500	507553.596	105317.295			
PF725	450	Type E	31.895	31.293	0.501	507553.249	105315.372			
PF731	450	Type E	29.908	29.308	0.500	507536.966	105273.001			
PF732	450	Type E	29.901	29.301	0.500	507536.474	105273.539			
PF737	450	Type E	32.365	31.554	0.711	507516.095	105318.269			
PF742	450	Type E	32.362	31.662	0.600	507524.726	105318.208			
PF746	450	Type E	32.359	31.359	0.900	507500.584	105319.752			
PF753	450	Type E	32.235	31.633	0.500	507500.192	105317.799			
PF756	450	Type E	32.181	31.581	0.500	507503.970	105317.082			
PF759	450	Type E	31.574	30.974	0.500	507486.240	105316.182			
PF767	450	Type E	29.354	28.563	0.891	507505.521	105273.009			
PF771	450	Type E	29.289	28.689	0.500	507509.024	105273.893			
PF780	450	Type E	29.166	28.566	0.500	507515.336	105276.248			
PF783	450	Type E	29.307	28.707	0.500	507484.019	105271.909			
PF789	450	Type E	29.319	28.719	0.500	507484.836	105273.039			
PF791	450	Type E	29.340	28.300	0.940	507477.719	105271.210			
PF793	450	Type E	29.224	28.515	0.609	507460.945	105269.444			
PF794	450	Type E	29.152	28.552	0.500	507457.997	105269.139			
PF803	450	Type E	29.184	28.584	0.500	507458.306	105270.561			
PF806	450	Type E	29.295	28.595	0.500	507460.409	105271.930			
PF808	450	Type E	29.320	28.720	0.500	507473.288	105271.346			
PF812	450	Type E	29.319	28.719	0.500	507473.931	105271.425			
PF818	450	Type E	29.973	28.123	0.750	507436.571	105272.515			
PF821	450	Type E	29.083	28.333	0.650	507413.664	105273.391			
PF824	450	Type E	29.137	27.837	1.200	507416.100	105278.525			
PF825	450	Type E	29.147	28.297	0.750	507417.453	105278.658			
PF827	450	Type E	29.000	28.400	0.500	507420.709	105291.514			
PF830	450	Type E	29.505	28.704	0.700	507420.787	105295.732			
PF831	450	Type E	29.595	28.995	0.500	507421.155	105303.150			
PF832	450	Type E	29.645	29.045	0.500	507421.319	105308.141			
PF833	450	Type E	29.821	29.221	0.500	507441.486	105309.304			
PF838	450	Type E	29.486	28.936	0.450	507421.309	105300.125			
PF841	450	Type E	29.547	28.947	0.500	507421.231	105298.603			
PF849	450	Type E	30.616	29.916	0.600	507423.727	105329.998			
PF862	450	Type E	30.711	30.111	0.500	507431.904	105330.304			
PF864	450	Type E	30.585	30.035	0.498	507428.468	105330.444			
PF862	450	Type E	31.033	30.380	0.553	507442.029	105330.250			
PF867	450	Type E	30.989	30.289	0.600	507437.518	105329.881			
PF869	450	Type E	31.238	30.200	0.538	507451.135	105328.788			
PF872	450	Type E	31.109	30.509	0.500	507443.209	105329.672			
PF876	450	Type E	32.161	31.561	0.500	507474.844	105330.676			
PF877	450	Type E	32.133	31.533	0.500	507473.888	105330.164			
PF884	450	Type E	33.892	33.092	0.500	507472.404	105352.097			
PF891	450	Type E	34.140	33.540	0.500	507469.797	105363.949			
PF897	450	Type E	34.847	34.247	0.500	507470.689	105378.470			
PF898	450	Type E	34.920	34.320	0.500	507470.902	105379.483			
PF904	450	Type E	35.080	34.284	0.696	507426.704	105371.245			
PF905	450	Type E	33.330	32.735	0.596	507439.588	105369.978			
PF906	450	Type E	33.381	32.785	0.496	507440.298	105369.966			
PF907	450	Type E	33.595	32.889	0.626	507442.844	105370.553			
PF917	450	Type E	33.280	32.680	0.500	507435.840	105370.304			
PF919	450	Type E	33.284	32.684	0.500	507433.868	105370.253			
PF921	450	Type E	33.154	32.555	0.500	507430.329	105370.491			
PF925	450	Type E	33.097	32.498	0.499	507429.622	105370.476			
PF929	450	Type E	32.952	32.303	0.549	507427.026	105370.811			
PF931	450	Type E	33.027	32.177	0.750	507429.224	105380.988			
PF932	450	Type E	33.005	32.405	0.500	507426.819	105381.943			
PF934	450	Type E	33.013	32.413	0.500	507426.835	105381.800			
PF936	450	Type E	33.016	32.416	0.500	507426.851	105381.657			
PF938	450	Type E	33.019	32.419	0.500	507426.867	105381.514			
PF940	450	Type E	33.022	32.422	0.500	507426.883	105381.371			
PF942	450	Type E	33.025	32.425	0.500	507426.899	105381.228			
PF944	450	Type E	33.028	32.428	0.500	507426.915	105381.085			
PF946	450	Type E	33.031	32.431	0.500	507426.931	105380.942			
PF948	450	Type E	33.034	32.434	0.500	507426.947	105380.799			
PF950	450	Type E	33.037	32.437	0.500	507426.963	105380.656			
PF952	450	Type E	33.040	32.440	0.500	507426.979	105380.513			
PF954	450	Type E	33.043	32.443	0.500	507426.995	105380.370			
PF956	450	Type E	33.046	32.446	0.500	507427.011	105380.227			
PF958	450	Type E	33.049	32.449	0.500	507427.027	105380.084			
PF960	450	Type E	33.052	32.452	0.500	507427.043	105379.941			
PF962	450	Type E	33.055	32.455	0.500	507427.059	105379.798			
PF964	450	Type E	33.058	32.458	0.500	507427.075	105379.655			
PF966	450	Type E	33.061	32.461	0.500	507427.091	105379.512			
PF968	450	Type E	33.064	32.464	0.500	507427.107	105379.369			
PF970	450	Type E	33.067	32.467	0.500	507427.123	105379.226			
PF972	450	Type E	33.070	32.470	0.500	507427.139	105379.083			
PF974	450	Type E	33.073	32.473	0.500	507427.155	105378.940			
PF976	450	Type E	33.076	32.476	0.500	507427.171	105378.797			
PF978	450	Type E	33.079	32.479	0.500	507427.187	105378.654			
PF980	450	Type E	33.082	32.482	0.500	507427.203	105378.511			
PF982	450	Type E	33.085	32.485	0.500	507427.219	105378.368			
PF984	450	Type E	33.088	32.488	0.500	507427.235	105378.225			
PF986	450	Type E	33.091	32.491	0.500	507427.251	105378.082			
PF988	450	Type E	33.094	32.494	0.500	507427.267	105377.939			
PF990	450	Type E	33.097	32.497	0.500	507427.283	105377.796			
PF992	450	Type E	33.100	32.500	0.500	507427.299	105377.653			
PF994	450	Type E	33.103	32.503	0.500	507427.315	105377.510			
PF996	450	Type E	33.106	32.506	0.500	507427.331	105377.367			
PF998	450	Type E	33.109	32.509	0.500	507427.347	105377.224			
PF1000	450	Type E	33.112	32.512	0.500	507427.363	105377.081			
PF1002	450	Type E	33.115	32.515	0.500	507427.379	105376.938			
PF1004	450	Type E	33.118	32.518	0.500	507427.395	105376.795			
PF1006	450	Type E	33.121	32.521	0.500	507427.411	105376.652			
PF1008	450	Type E	33.124	32.524	0.500	507427.427	105376.509			
PF1010	450	Type E	33.127	32.527	0.500	507427.443	105376.366			
PF1012	450	Type E	33.130	32.530	0.500	507427.459	105376.223			
PF1014	450	Type E	33.133	32.533	0.500	507427.475	105376.080			
PF1016	450	Type E	33.136	32.536	0.500	507427.491	105375.937			
PF1018	450	Type E	33.139	32.539	0.500	507427.507	105375.794			
PF1020	450	Type E	33.142	32.542	0.500	507427.523	105375.651			
PF1022	450	Type E	33.145	32.545	0.500	507427.539	105375.508			
PF1024	450	Type E	33.148	32.548	0.500	507427.555	105375.365			
PF1026	450	Type E	33.151	32.551	0.500	507427.571	105375.222			
PF1028	450	Type E	33.154	32.554	0.500	507427.587	105375.079			
PF1030	450	Type E	33.157	32.557	0.500	507427.603	105374.936			
PF1032	450	Type E	33.160	32.560	0.500	507427.619	105374.793			
PF1034	450	Type E	33.163	32.563	0.500	507427.635	105374.650			
PF1036	450	Type E	33.166	32.566	0.500	507427.651	105374.507			
PF1038	450	Type E	33.169	32.569	0.500	507427.667	105374.364			
PF1040	450	Type E	33.172	32.572	0.500	507427.683	105374.221			
PF1042	450	Type E	33.175	32.575	0.500	507427.699	105374.078			
PF1044	450	Type E	33.178	32.578	0.500	507427.715	105373.935			
PF1046	450	Type E	33.181	32.581	0.500	507427.731	105373.792			
PF1048	450	Type E	33.184	32.584	0.500	507427.747	105373.649			
PF1050	450	Type E	33.187	32.587	0.500	507427.763	105373.506			
PF1052	450	Type E	3							



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LEGEND

1500 1/XX

ADOPTABLE FOUL

XXX0 1/XXX

ADOPTABLE SURFACE

1000U/L 1/XXX

PRIVATE SURFACE

XX.XXX

PROPOSED DITCH BED LEVEL

FOUL WATER MANHOLE,

BACKDROP

PRIVATE SURFACE WATER MANHOLE

SURFACE WATER MANHOLE

ROAD GULLY (WITH 150mmØ CONNECTION)

TYPE (X)

OWC BAGWORK HEADWALL

EXISTING DITCH TO REMAIN

PROPOSED DITCH TO BE INSTALLED

EXISTING DITCH/CULVERT TO BE ABANDONED/FILLED

3000 1/XX

PROPOSED CULVERTED WATERCOURSE

WATERCOURSE FLOW PATHS

- OWC APPLICATION NOTES:
1.

ALL EXISTING PIPEWORK/ MANHOLES/ HEADWALLS DEEMED TO BE CULVERTED WATERCOURSES THAT ARE TO BE ABANDONED WILL REQUIRE GRUBBING UP, OR FILLING IN CONCRETE WHERE POSSIBLE.
2.

ABANDONED DITCHES TO BE FILLED WITH CLASS 2 COHESIVE FILL MATERIAL COMPACTED IN ACCORDANCE WITH TABLE 6-1 OF THE DMRB FOR GUIDANCE ON THE CORRECT METHOD OF COMPACTION. "MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS VOLUME 1 SPECIFICATION FOR HIGHWAY WORKS 600 SERIES"
3.

ALL PIPES ARE TO CONNECT AT SOFFIT TO SOFFIT LEVEL. ALL CULVERTS ARE TO BE CONSTRUCTED OF CONCRETE – C50 GRADE
4.

ALL DITCHES TO BE CLEANED OUT & DESILTED
5.

ALL NEW CULVERTS TO BE CCTV SURVEYED AFTER INSTALLATION
6.

REFER TO DRAWING 189.5005.204 FOR THE MANHOLE SCHEDULE OF THE OWC CULVERTS. CATCHPITS TO BE MINIMUM DEPTH OF 300mm
7.

THE OWC APPLICATION PACK AND ASSOCIATED DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARUN DISTRICT COUNCIL CONSTRUCTION DETAILS AS FOLLOWS:

• BRICKWORK MANHOLE STANDARD DETAILS (80000502 REV.C)

• CONCRETE BAGWORK HEADWALL & RETAINING WALL STANDARD DETAIL (80000102 REV. B)

• GRILLE DETAILS FOR CONCRETE BAGWORK & BRICK HEADWALLS (80000101 REV. B)

• PIPE BEDDING AND CONNECTIONS STANDARD DETAILS (80000301 REV. C)
8.

HEADWALL IDENTIFICATION MARKS SHOWN AS (TYPE X) RELATE TO PROVIDED CONSTRUCTION DETAILS SHOWN ON DRAWING 189.5005.1251

- GENERAL NOTES
1.

THIS DRAWING IS INTENDED TO BE VIEWED IN COMBINATION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, SERVICES AND SPECIALIST DRAWINGS AND SPECIFICATION.
2.

ANY VARIATIONS OR DISCREPANCIES BETWEEN THESE DRAWINGS IN TERMS OF DIMENSIONS OR DETAILS SHOULD BE DRAWN TO THE ATTENTION OF THE ARCHITECT AND/OR THE ENGINEER FOR CLARIFICATION.
3.

PAUL BASHAM ASSOCIATES ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES – THIS MUST BE TREATED AS INDICATIVE ONLY.
4.

ALL DIMENSIONS AND LEVELS ARE IN METRES. DO NOT SCALE THIS DRAWING, PRINT, PLOT OR DISK.
5.

THIS DRAWING SHOULD ONLY BE USED FOR CONSTRUCTION IF THE PROJECT PHASE IN THE TITLE FRAME BELOW IS SHOWN AS "CONSTRUCTION". PAUL BASHAM ASSOCIATES TAKE NO RESPONSIBILITY FOR CONSTRUCTION WORKS UNDERTAKEN TO DRAWINGS WHICH ARE NOT MARKED UNDER THIS PHASE.

NORTH

0m

10m

1:200

PRELIMINARY

DRAWING/DESIGN IS STILL 'IN DEVELOPMENT'
YOU ARE ADVISED TO MAKE DUE ALLOWANCE

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info@paulbashamassociates.com www.paulbashamassociates.com

Client

CALA

Project Name

OVAL RACEWAY, WATER LANE
ANGMERING

Project Phase

ORDINARY WATERCOURSE APPLICATION
PROPOSED DRAINAGE STRATEGY SHEET 1

Checked By

Checked Date

Drawn By

Drawn Date

MW

26.07.2024

LC

26.07.2024

Client Drawing No.

Scale

-

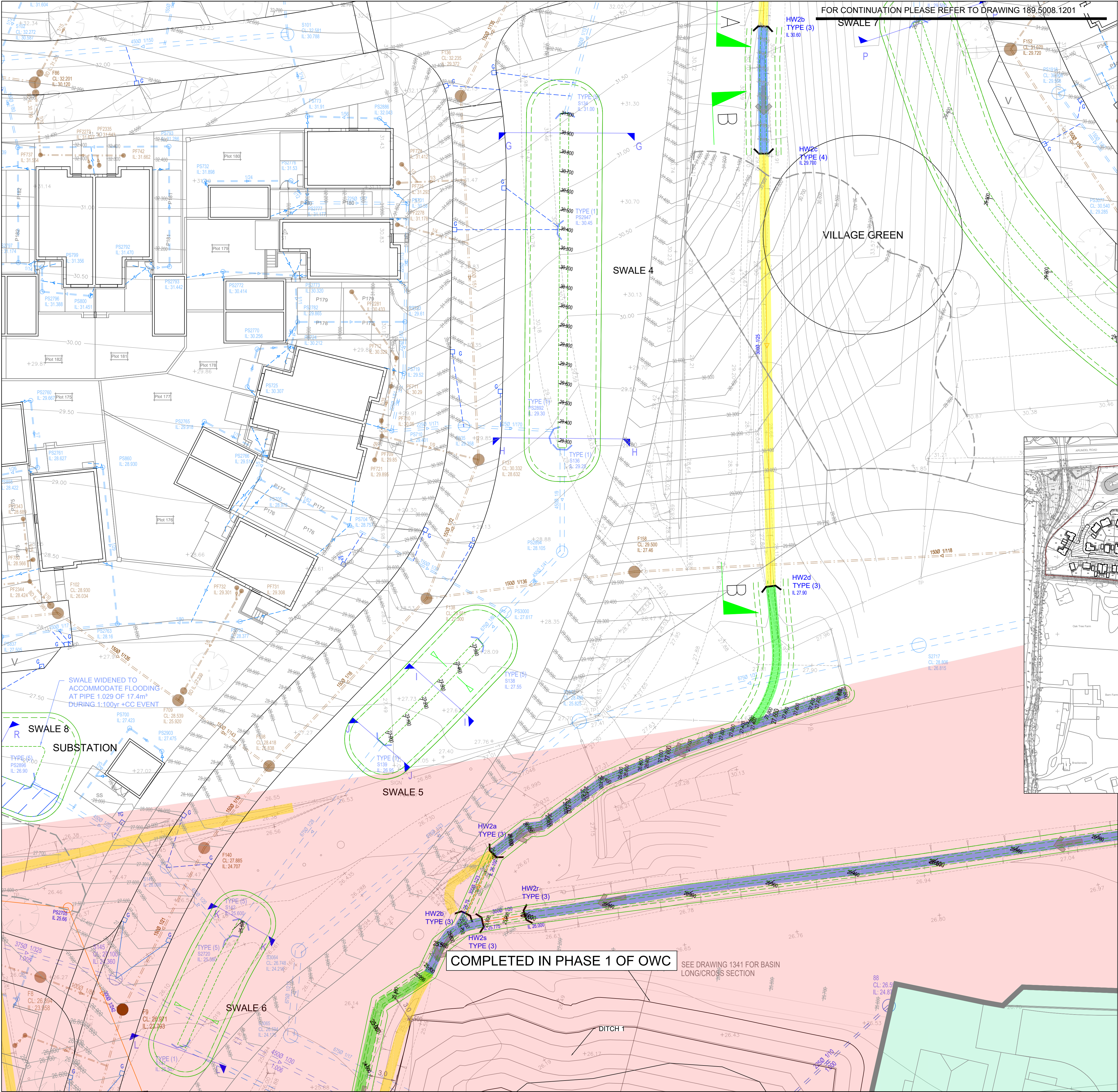
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PBA Drawing No.

Revision

189.5005.1201

P02



FOR CONTINUATION PLEASE REFER TO DRAWING 189.5008.1201

LEGEND

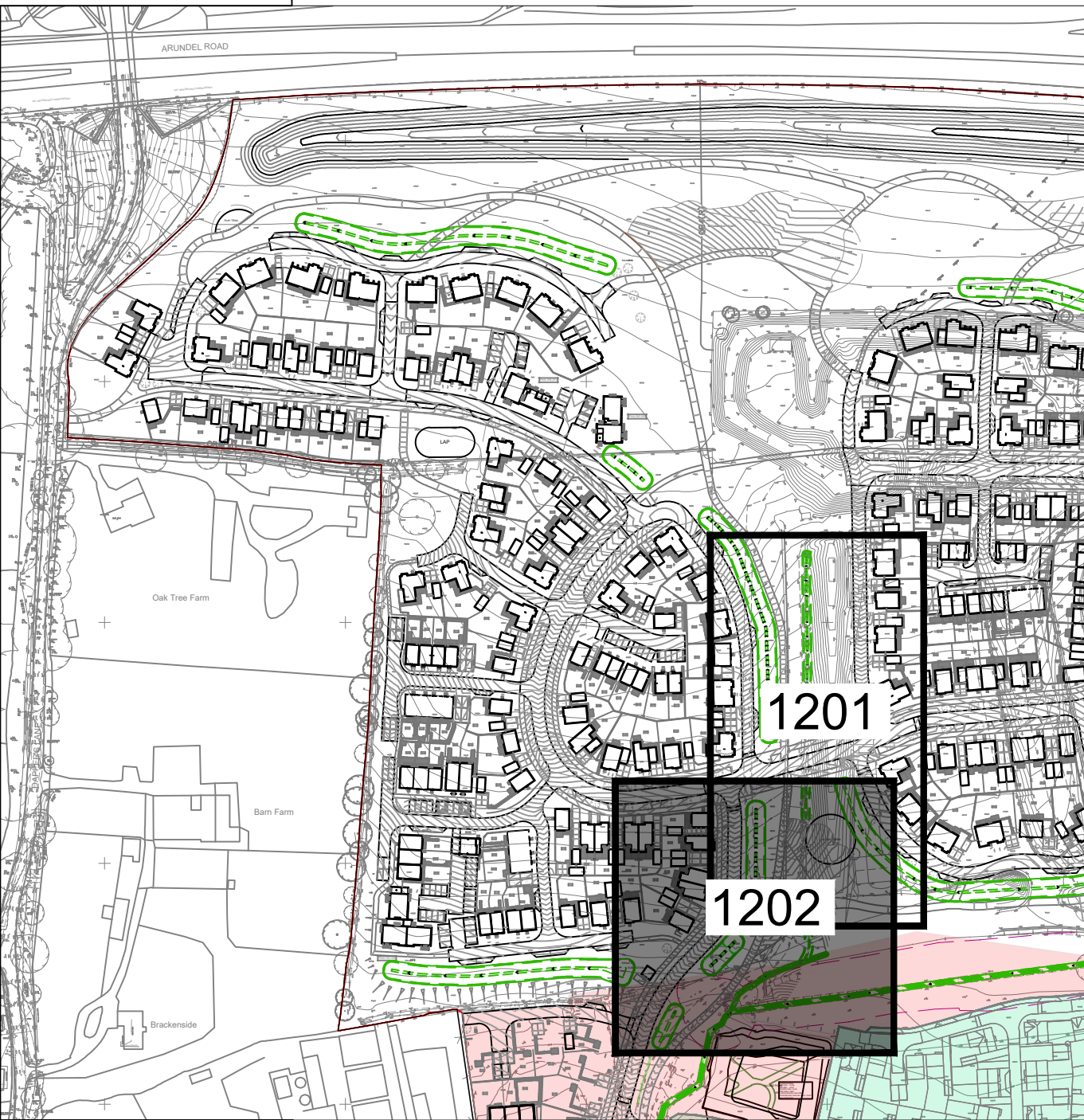
- LAND OWNERSHIP BOUNDARY
- ADOPTABLE FOUL
- ADOPTABLE SURFACE
- PRIVATE SURFACE
- PROPOSED DITCH BED LEVEL
- FOUL WATER MANHOLE,
- PRIVATE SURFACE WATER MANHOLE
- SURFACE WATER MANHOLE
- ROAD GULLY (WITH 150mmØ CONNECTION)
- OWC BAGWORK HEADWALL
- EXISTING DITCH TO REMAIN
- PROPOSED DITCH TO BE INSTALLED
- EXISTING DITCH/CULVERT TO BE ABANDONED/FILLED
- PROPOSED CULVERTED WATERCOURSE
- WATERCOURSE FLOW PATHS

GENERAL NOTES

- THIS DRAWING IS INTENDED TO BE VIEWED IN COMBINATION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, SERVICES AND SPECIALIST DRAWINGS AND SPECIFICATION.
- ANY VARIATIONS OR DISCREPANCIES BETWEEN THESE DRAWINGS IN TERMS OF DIMENSIONS OR DETAILS SHOULD BE DRAWN TO THE ATTENTION OF THE ARCHITECT AND/OR THE ENGINEER FOR CLARIFICATION.
- PAUL BASHAM ASSOCIATES ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- ALL DIMENSIONS AND LEVELS ARE IN METRES. DO NOT SCALE THIS DRAWING, PRINT, PLOT OR DISK.
- THIS DRAWING SHOULD ONLY BE USED FOR CONSTRUCTION IF THE PROJECT PHASE IN THE TITLE FRAME BELOW IS SHOWN AS "CONSTRUCTION". PAUL BASHAM ASSOCIATES TAKE NO RESPONSIBILITY FOR CONSTRUCTION WORKS UNDERTAKEN TO DRAWINGS WHICH ARE NOT MARKED UNDER THIS PHASE.

OWC APPLICATION NOTES:

- ALL EXISTING PIPEWORK/ MANHOLES/ HEADWALLS DEEMED TO BE CULVERTED WATERCOURSES THAT ARE TO BE ABANDONED WILL REQUIRE GRUBBING UP, OR FILLING IN CONCRETE WHERE POSSIBLE.
- ABANDONED DITCHES TO BE FILLED WITH CLASS 2 COHESIVE FILL MATERIAL COMPACTED IN ACCORDANCE WITH TABLE 6-1 OF THE DMRB FOR GUIDANCE ON THE CORRECT METHOD OF COMPACTION. *MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS VOLUME 1 SPECIFICATION FOR HIGHWAY WORKS 600 SERIES"
- ALL PIPES ARE TO CONNECT AT SOFFIT TO SOFFIT LEVEL. ALL CULVERTS ARE TO BE CONSTRUCTED OF CONCRETE - C50 GRADE
- ALL DITCHES TO BE CLEANED OUT & DESILTED
- ALL NEW CULVERTS TO BE CCTV SURVEYED AFTER INSTALLATION
- REFER TO DRAWING 189.5005.204 FOR THE MANHOLE SCHEDULE OF THE OWC CULVERTS. CATCHPITS TO BE MINIMUM DEPTH OF 300mm
- THE OWC APPLICATION PACK AND ASSOCIATED DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARUN DISTRICT COUNCIL CONSTRUCTION DETAILS AS FOLLOWS:
 - BRICKWORK MANHOLE STANDARD DETAILS (80000502 REV.C)
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 - GRILLE DETAILS FOR CONCRETE BAGWORK & BRICK HEADWALLS (80000101 REV. B)
 - PIPE BEDDING AND CONNECTIONS STANDARD DETAILS (80000301 REV. C)
- HEADWALL IDENTIFICATION MARKS SHOWN AS (TYPE X) RELATE TO PROVIDED CONSTRUCTION DETAILS SHOWN ON DRAWING 189.5005.1251



1: 200

0m 10m

PRELIMINARY

DRAWING/DESIGN IS STILL "IN DEVELOPMENT"
YOU ARE ADVISED TO MAKE DUE ALLOWANCE

P03	CULVERT B-B EXTENDED OVER PLAY AREA	24.02.2025	RL	LC
P02	ARUN D.C COMMENTS INCORPORATED	25.10.2024	RL	MW
P01	FIRST ISSUE	26.07.2024	LC	MW
Rev	Description	Date	By	Chkd

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Project Name
OVAL RACEWAY, WATER LANE
ANGMERING

Title
ORDINARY WATERCOURSE APPLICATION
PROPOSED DRAINAGE STRATEGY SHEET 2

Project Phase
DETAILED DESIGN

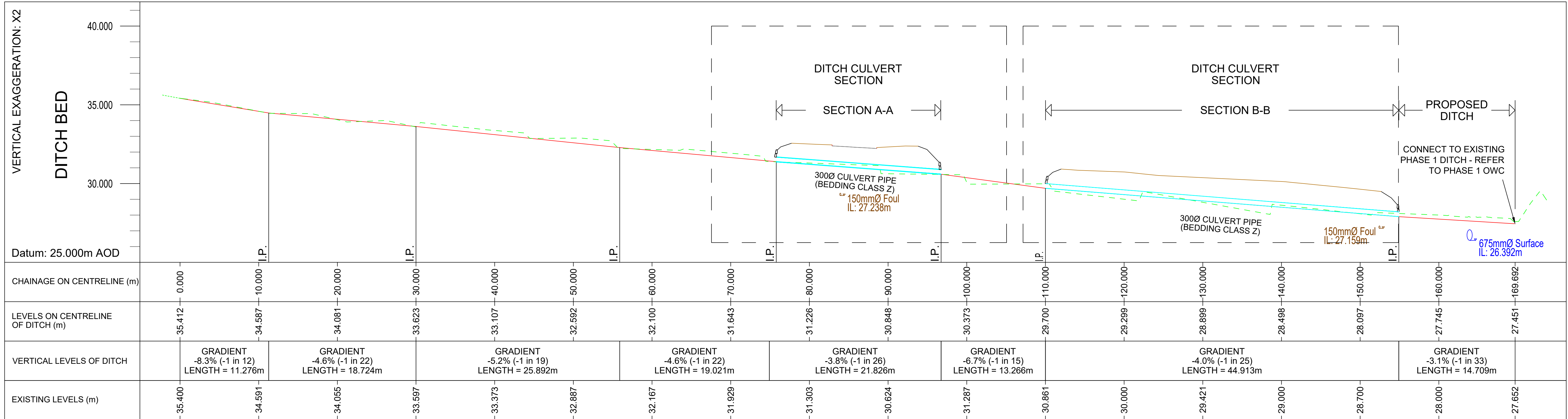
Checked By MW	Checked Date 26.07.2024	Drawn By LC	Drawn Date 26.07.2024
Client Drawing No. -	Scale 1:200	(AT A1 SIZE)	
PBA Drawing No. 189.5005.1202	Revision P03		

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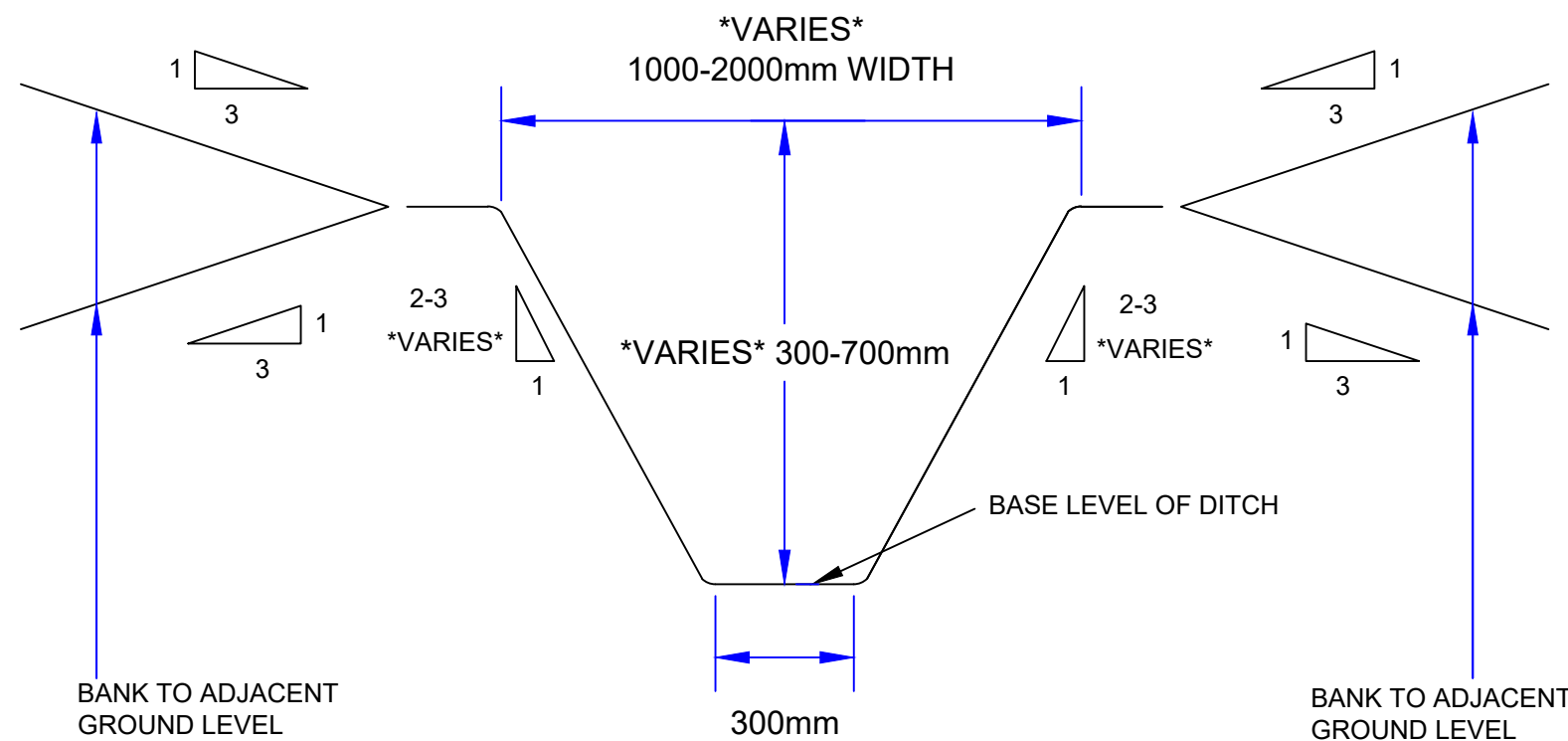
FOR SECTION A-A & B-B
REFER TO DRG.No. 1212



DITCH LONG SECTION

SCALE: 1:250H, 1:125V

NOTE: DITCH PROFILE SHOULD MATCH THAT OF THE EXISTING DITCHES IMMEDIATELY UPSTREAM AND DOWNSTREAM.



TYPICAL CROSS SECTION OF DITCH DETAIL NTS

- BOTTOM OF DITCH
- EX. GROUND LEVEL
- CULVERT PIPE
- INDICATIVE BAGWORK
- ROAD & FOOTWAY

PRELIMINARY

DRAWING/DESIGN IS STILL "IN DEVELOPMENT"
YOU ARE ADVISED TO MAKE DUE ALLOWANCE

P03	CULVERT B-B EXTENDED	24.02.2025	RL	LC
P02	ARUN D.C. COMMENTS INCORPORATED	25.10.2024	RL	MW
P01	FIRST ISSUE	26.07.2024	LC	MW
Rev	Description	Date	By	Chkd

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info@paulbashamassociates.com www.paulbashamassociates.com



Project Name
OVAL RACEWAY, WATER LANE
ANGMERING

Title
ORDINARY WATERCOURSE APPLICATION
DITCH LONG SECTIONS SHEET 1

Project Phase
PRELIMINARY

Checked By	Checked Date	Drawn By	Drawn Date
MW	26.07.2024	LC	26.07.2024

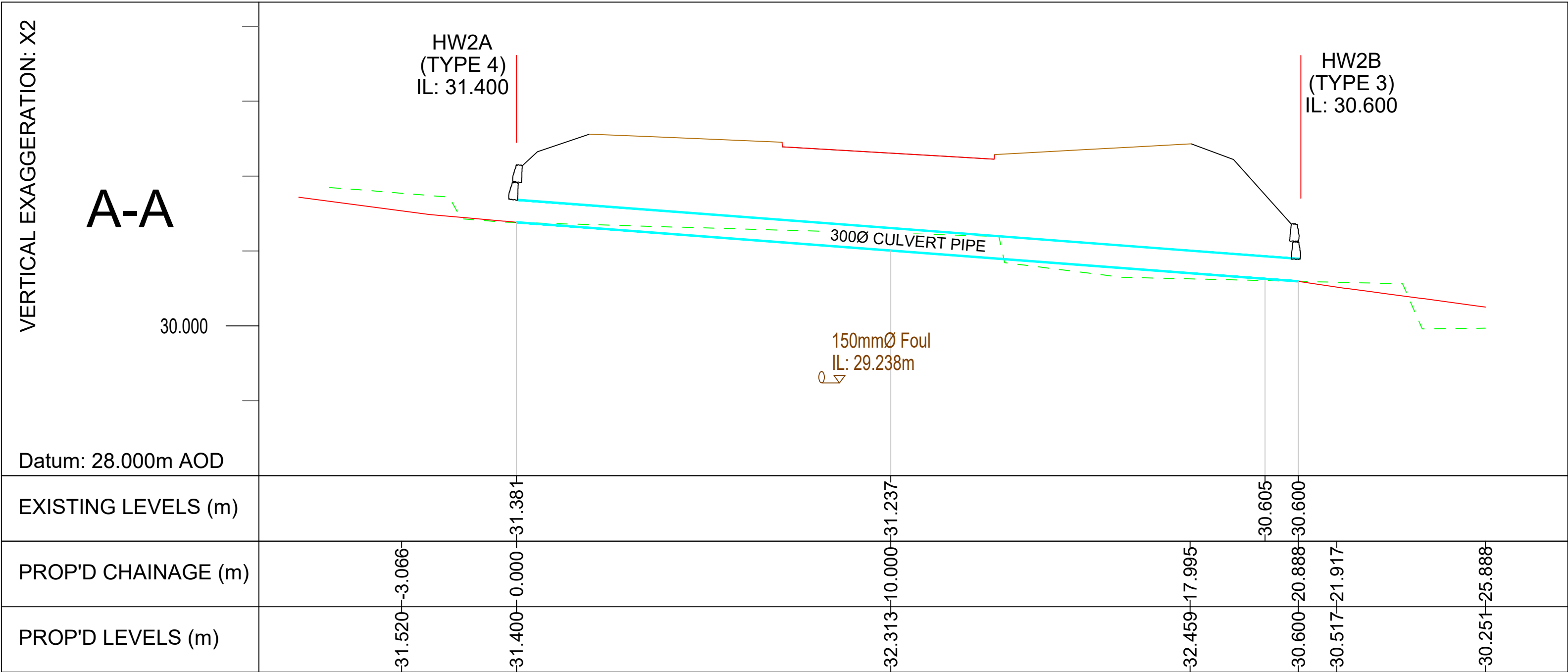
Client Drawing No.	Scale
-	AS SHOWN (AT A1 SIZE)

PBA Drawing No.	Revision
189.5005.1211	P03

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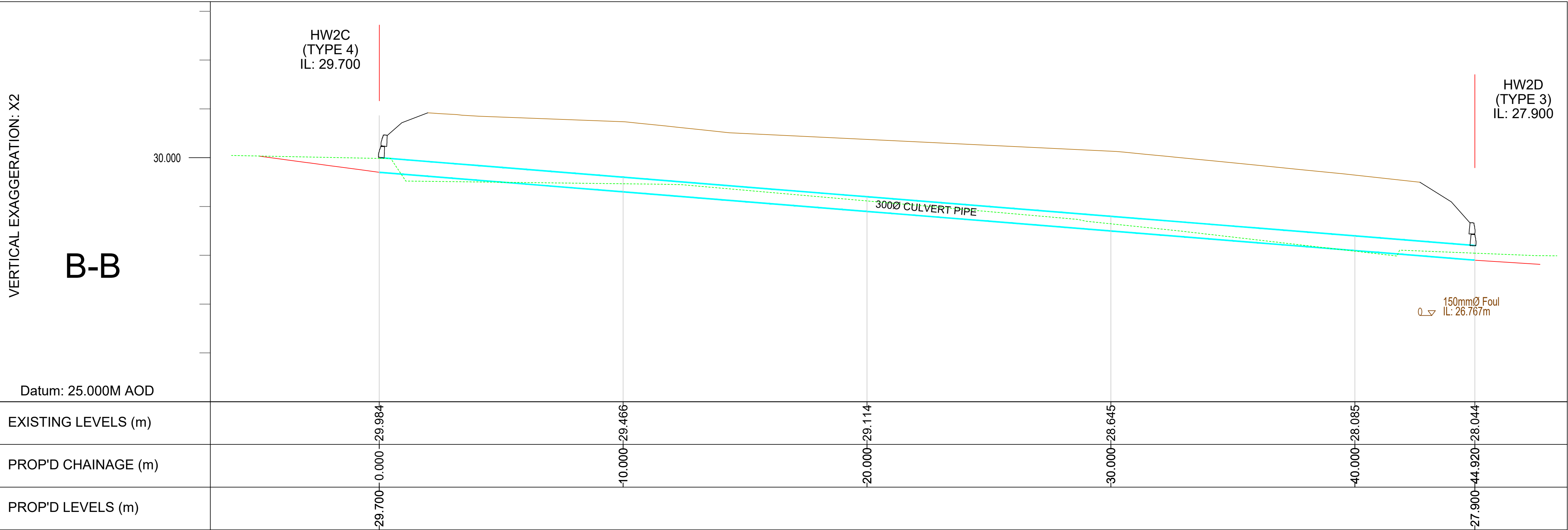
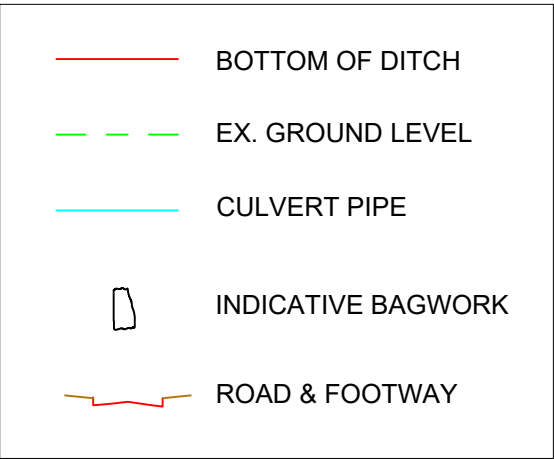
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SECTION A-A

SCALE: 1:100H, 1:50V

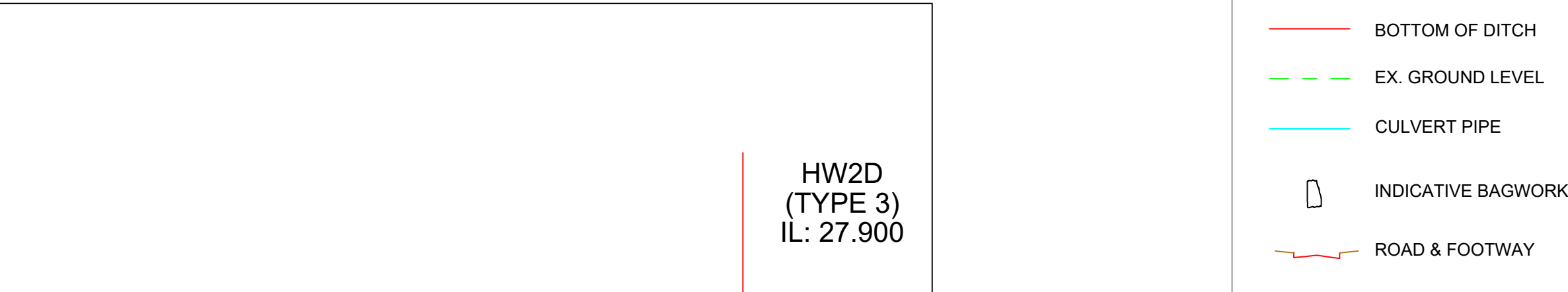
I:100



SECTION B-B

SCALE: 1:100H, 1:50V

I:100



PRELIMINARY

DRAWING/DESIGN IS STILL 'IN DEVELOPMENT'
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P02	CULVERT B-B EXTENDED	24.02.2025	RL	LC
P01	ARUN D.C. COMMENTS INCORPORATED	25.10.2024	RL	MW
Rev	Description	Date	By	Chkd

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Project Name OVAL RACEWAY, WATER LANE ANGMERING			
Title ORDINARY WATERCOURSE APPLICATION DITCH LONG SECTIONS SHEET 2			
Project Phase PRELIMINARY			
Checked By MW	Checked Date 25.10.2024	Drawn By RL	Drawn Date 25.10.2024
Client Drawing No. -		Scale AS SHOWN	(AT A1 SIZE)
PBA Drawing No. 189.5005.1212			Revision P02

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- IN-SITU CBR TESTS SHALL BE UNDERTAKEN FOR EACH SECTION OF HIGHWAY AT INTERVALS OF 25M OR LESS. RESULTS TO BE SUBMITTED TO THE TECHNICAL DEPARTMENT AT CALA HOMES FOR APPROVAL PRIOR TO CARRIAGEWAY CONSTRUCTION.
- ALL DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE DESIGN AND CONSTRUCTION GUIDANCE (DCG), AND THE BUILDING REGULATIONS (APPROVED DOCUMENT) H. ANY DISCREPANCIES SHOULD BE REPORTED TO CALA FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORKS.
- ALL MANHOLE CHAMBER COVERS TO BE INSTALLED PARALLEL TO FINAL KERBS, EDGINGS, PAVING JOINTS OR BUILDING LINES AS APPROPRIATE. THE MANHOLE COVER SHALL BE PLACED ENTIRELY WITHIN ONE SURFACE FINISH.
- THE CONTRACTOR IS TO SEEK APPROVAL FROM THE TECHNICAL DEPARTMENT AT CALA HOMES PRIOR TO ORDERING ANY PERFECT MANHOLES.
- ON COMPLETION OF EACH BUILD AREA THE CONTRACTOR SHALL JET CLEAN AND CCTV ALL DRAINAGE AND PROVIDE A COPY OF THE VIDEO FOOTAGE AND PDF REPORT TO CALA. THE REPORT SHALL INCLUDE AN EXECUTIVE SUMMARY OF THE FINDINGS AND A SCHEMATIC OF THE DRAINAGE LAYOUT.
- PRIOR TO FORMING EACH DWELLING ACCESS, THE CONTRACTOR SHALL CHECK THAT THE AS-BUILT LEVELS COMPLY WITH THE CURRENT VERSION OF THE NHBC TECHNICAL STANDARDS AND THE BUILDING REGULATIONS PART M. IF CLARIFICATION OR DESIGN CHANGE IS REQUIRED, THE CONTRACTOR SHALL WAIT FURTHER INSTRUCTION FROM CALA BEFORE PROCEEDING.
- THE CONTRACTOR IS TO PROVIDE AS-BUILT RECORDS IN PDF AND DWG FORMAT FOR THE FULL EXTENT OF THE WORKS. THIS IS TO INCLUDE (BUT NOT LIMITED TO) ALL SERVICES, HIGHWAYS, DRAINAGE, RETAINING STRUCTURES, AND ALL EXTERNAL AREAS.

OWC APPLICATION NOTES:

- ALL EXISTING PIPEWORK/ MANHOLES/ HEADWALLS DEEMED TO BE CULVERTED WATERCOURSES THAT ARE TO BE ABANDONED WILL REQUIRE GRUBBING UP, OR FILLING IN CONCRETE WHERE POSSIBLE.
- ABANDONED DITCHES TO BE FILLED WITH CLASS 2 COHESIVE FILL MATERIAL COMPACTED IN ACCORDANCE WITH TABLE 6-1 OF THE DMRB FOR GUIDANCE ON THE CORRECT METHOD OF COMPACTION. "MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS VOLUME 1 SPECIFICATION FOR HIGHWAY WORKS 600 SERIES"
- ALL PIPES ARE TO CONNECT AT SOFFIT TO SOFFIT LEVEL. ALL CULVERTS ARE TO BE CONSTRUCTED OF CONCRETE - C50 GRADE.
- ALL DITCHES TO BE CLEANED OUT & DESILTED
- ALL NEW CULVERTS TO BE CCTV SURVEYED AFTER INSTALLATION
- THE OWC APPLICATION PACK AND ASSOCIATED DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARUN DISTRICT COUNCIL CONSTRUCTION DETAILS AS FOLLOWS:
 - CONCRETE BAGWORK HEADWALL & RETAINING WALL STANDARD DETAIL (80000102 REV. B)
 - GRILLE DETAILS FOR CONCRETE BAGWORK & BRICK HEADWALLS (80000101 REV. B)
 - PIPE BEDDING AND CONNECTIONS STANDARD DETAILS (80000301 REV. C)

PRELIMINARY

DRAWING/DESIGN IS STILL "IN DEVELOPMENT"
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P02	ARUN D.C. COMMENTS INCORPORATED	25.10.2024	RL	MW
P01	FIRST ISSUE	26.07.2024	LC	MW
Rev	Description	Date	By	Chkd



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Client			
Project Name			
LAND NORTH OF WATER LANE ANGMERING			
Title			
OWC DETAIL CULVERT HEADWALLS & PIPE BEDDING			
Project Phase			
DETAILED DESIGN			
Checked By	Checked Date	Drawn By	Drawn Date
MW	26.07.24	LC	26.07.24
Client Drawing No.		Scale	
-		NTS	(AT A1 SIZE)
PBA Drawing No.		Revision	
189.5005.1251		P02	

Notes in Accordance with Arun DC Details

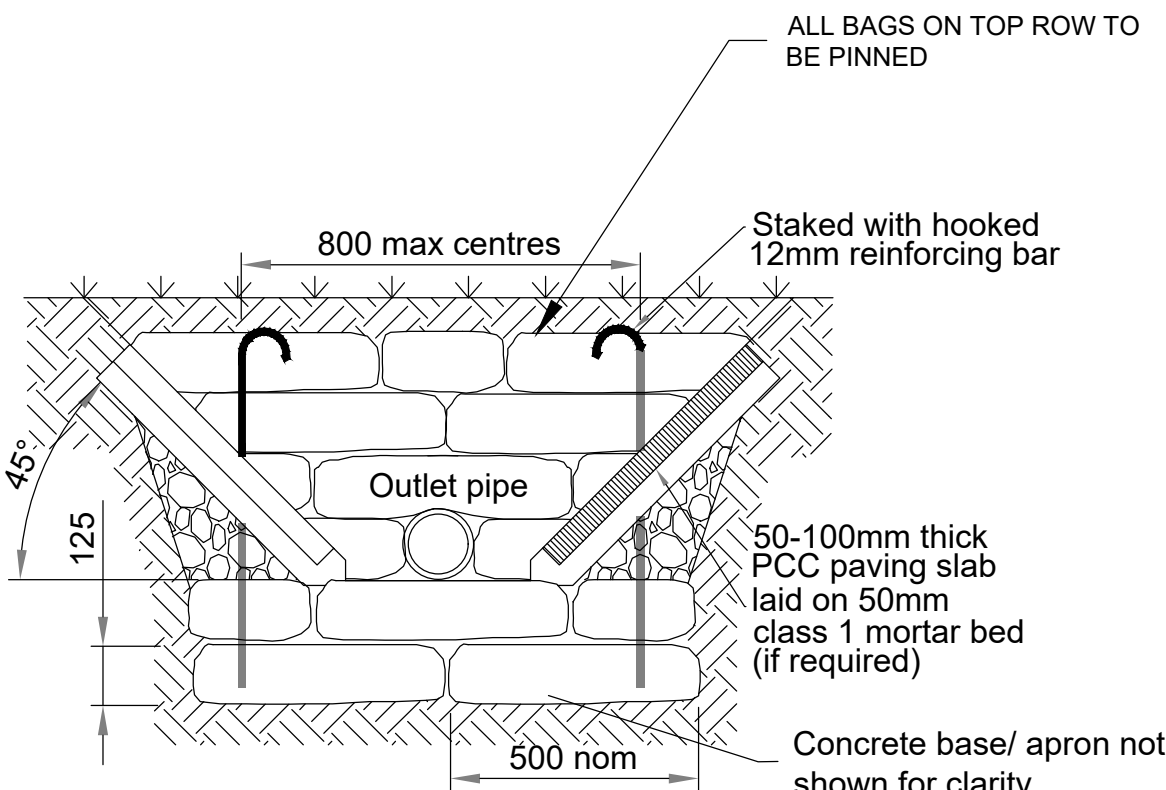
- Bags shall be of Hessian and shall be of a size to provide a wall thickness of 500mm
- Concrete bagwork shall be to Clause 519 and be three quarter filled with 25mm slump ST4 concrete immediately prior to placing with the ends sewn.
- The bags shall be placed in a modified Flemish bond so as to 'break joint' with the mouths away from the surface and be tamped into position to form a rectangular block
- Extent of outlet protection to be the greater of 1500mm or pipe diameter + 1200mm spanning the outlet pipe.
- Headwall design may need to be adjusted to on site conditions following approval from ADC Engineer.
- Ditch to be regraded as requested.
- All exposed pipework to be certified UV stable.
- Pipe details to be as specified on supporting drawings.
- All bags on top rows to be steel spiked.
- True bed level is established in agreement with the Local Authority engineer and needs to take account of existing upstream and culvert invert levels, and hard bed levels of the watercourse.
- No part of headwall structure to encroach into the profile of the watercourse.

ARUN DC Grille Notes

- Headwall and grille design may need to be adjusted to on site conditions following approval from ADC Engineer.
- Grille to be formed from Galvanised Steel
- All grilles to be cranked 45 degrees with sides unless expressly instructed.
- Grilles to be fixed into concrete base with suitable anchors. Fastening into facing wall of bagwork itself may also be necessary at Engineers instruction.
- Grille size to suit outgoing pipe diameter, or as recommended by Manufacturer.
- Grilles to be Althon or similar approved.
- Grille to be fixed to upper and lower frame with suitable galvanised steel (removable) bolts.
- Modification/add on to grille to be provided to reduce space between concrete base and bottom bar of grille, where necessary. Modification/ add on to be agreed with ADC Engineer. Any modifications/ add ons to be hot dip galvanised.
- Drawing to be read in conjunction with Arun District Council Construction Details:
 - Drawing no. 80000102 and 80000103.

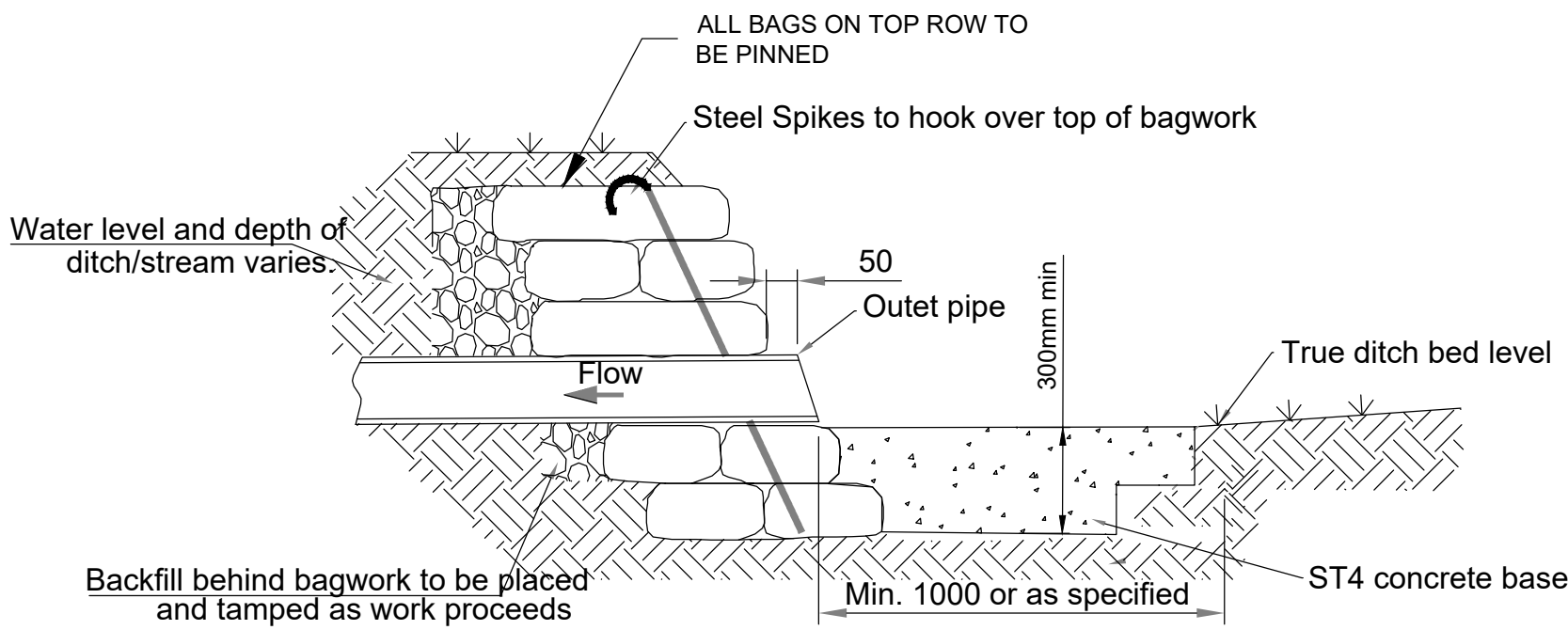
Althon Grille Fabrication Specification

- Manufacture IAW EN 1090-2 EXC CLASS 1
- Material grade is to be: BS EN 10025 S275
- Welding carried out IAW EN 1090x2 PARA 7.5.4 - 7.5.18
- All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
- Ensure vertical flats are fully welded both sides where possible.
- All sharp edges and burrs are to be removed.
- Remove all weld splatter.
- Holes by punching are permitted without reaming.
- Galvanising is carried out after fabrication to BS EN:ISO 1461



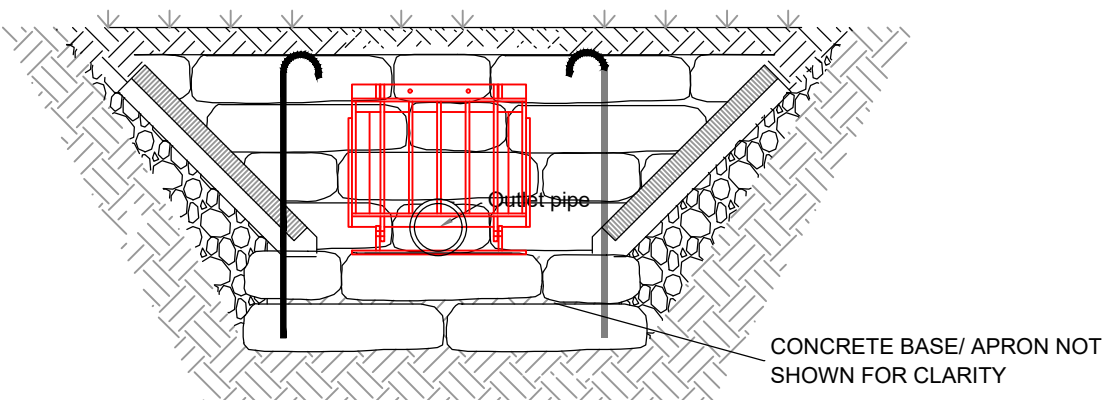
NOTE: WIDTH TO SUIT AND IN CONJUNCTION WITH NOTE No.4

TYPE (3)
ELEVATION OF HEADWALL
OUTLET FROM END OF DITCH



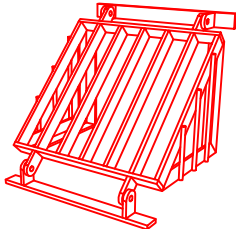
TYPE (3)
HEADWALL SECTION
OUTLET FROM END OF DITCH

TYPE 4 HEADWALLS TO BE READ IN CONJUNCTION WITH THE TYPE 3 HEADWALL.

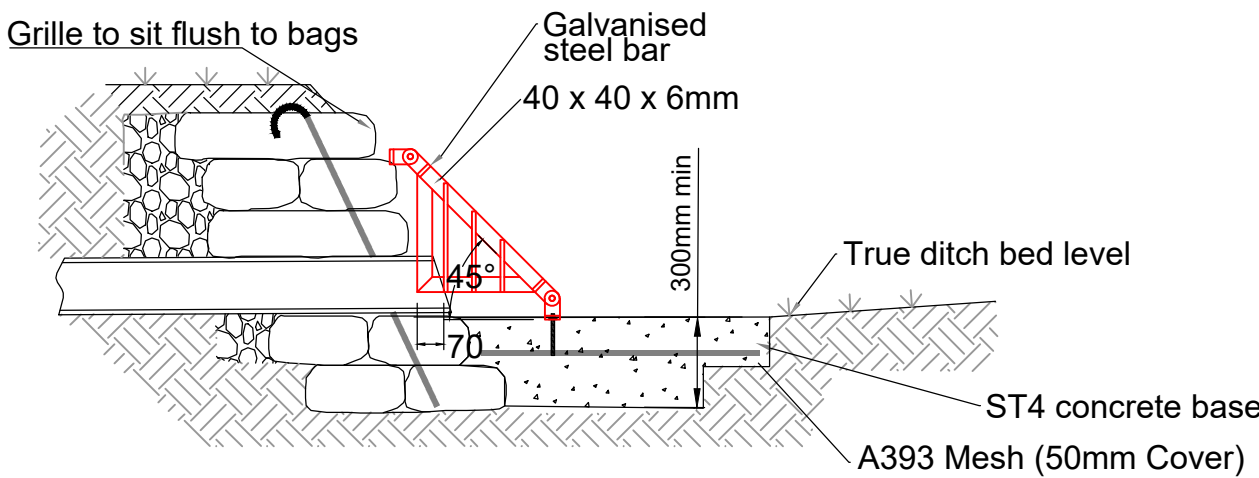


NOTE: WIDTH TO SUIT AND IN CONJUNCTION WITH NOTE No.4

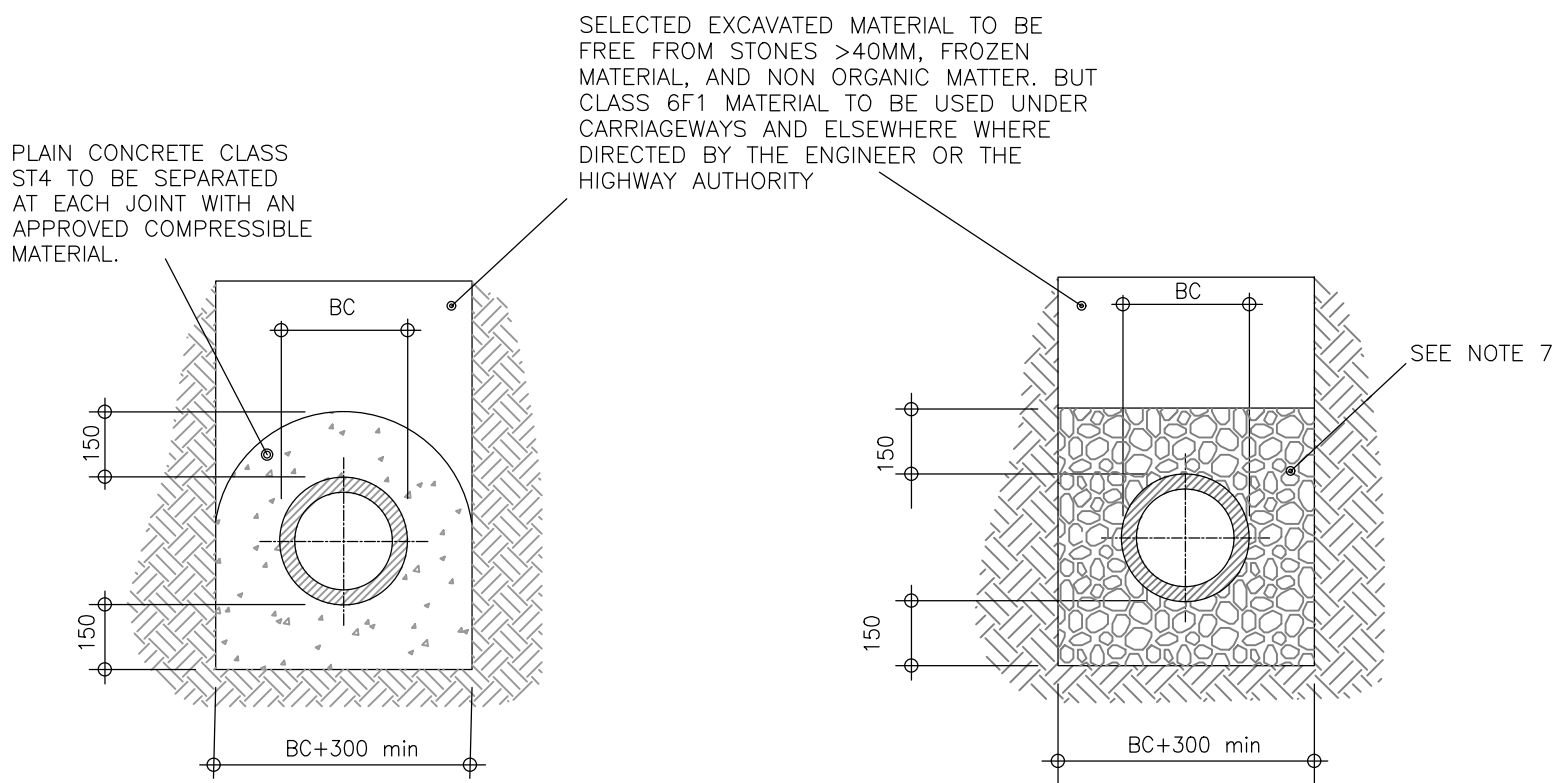
TYPE (4)
ELEVATION OF GRILLE ON BAGWORK
HEADWALL OUTLET FROM DITCH



3D DETAIL OF GRILLE



TYPE (4)
SECTION OF GRILLE ON BAGWORK
HEADWALL OUTLET FROM DITCH



CONCRETE SURROUND (CLASS Z)

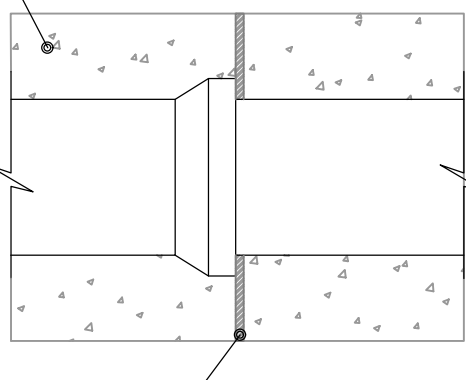
TO BE USED WHERE COVER TO CROWN OF PIPE IS LESS THAN 1200mm IN VEHICULAR AREAS OR LESS THAN 900mm UNDER OTHER AREAS

GRANULAR SURROUND (CLASS S)

TO BE USED WHERE COVER TO CROWN OF PIPE IS GREATER THAN 1200mm IN VEHICULAR AREAS OR >900MM ELSEWHERE

NOMINAL DIAMETER (MM)	SINGLE SIZE (MM)	GRADED (MM)
100-125	10	-
150-200	10 OR 14	14-5
225-300	10,14 OR 20	14-5 OR 20-5
375-500	14 OR 20	14-5 OR 20-5
>500	14,20 OR 40	14-5 OR 20-5 OR 40-5

PLAIN CONCRETE CLASS ST4 TO BE SEPARATED AT EACH JOINT WITH AN APPROVED COMPRESSIBLE MATERIAL.



APPROVED 18MM - 22MM THICK COMPRESSIBLE BOARD AT EACH PIPE JOINT

PIPE SURROUND EXPANSION JOINT DETAIL
(TO BE USED WITH CLASS Z)

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LAND OWNERSHIP BOUNDARY

CATCHMENT AREAS

ALL HOUSES HAVE 10% URBAN CREEP ADDED

B	UPDATES TO CALA COMMENTS	17.07.24	LC	MW
A	FIRST ISSUE	12.07.24	LC	COH
Rev	Description	Date	By	Chkd



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Project Name
LAND NORTH OF WATER LANE
ANGMERING

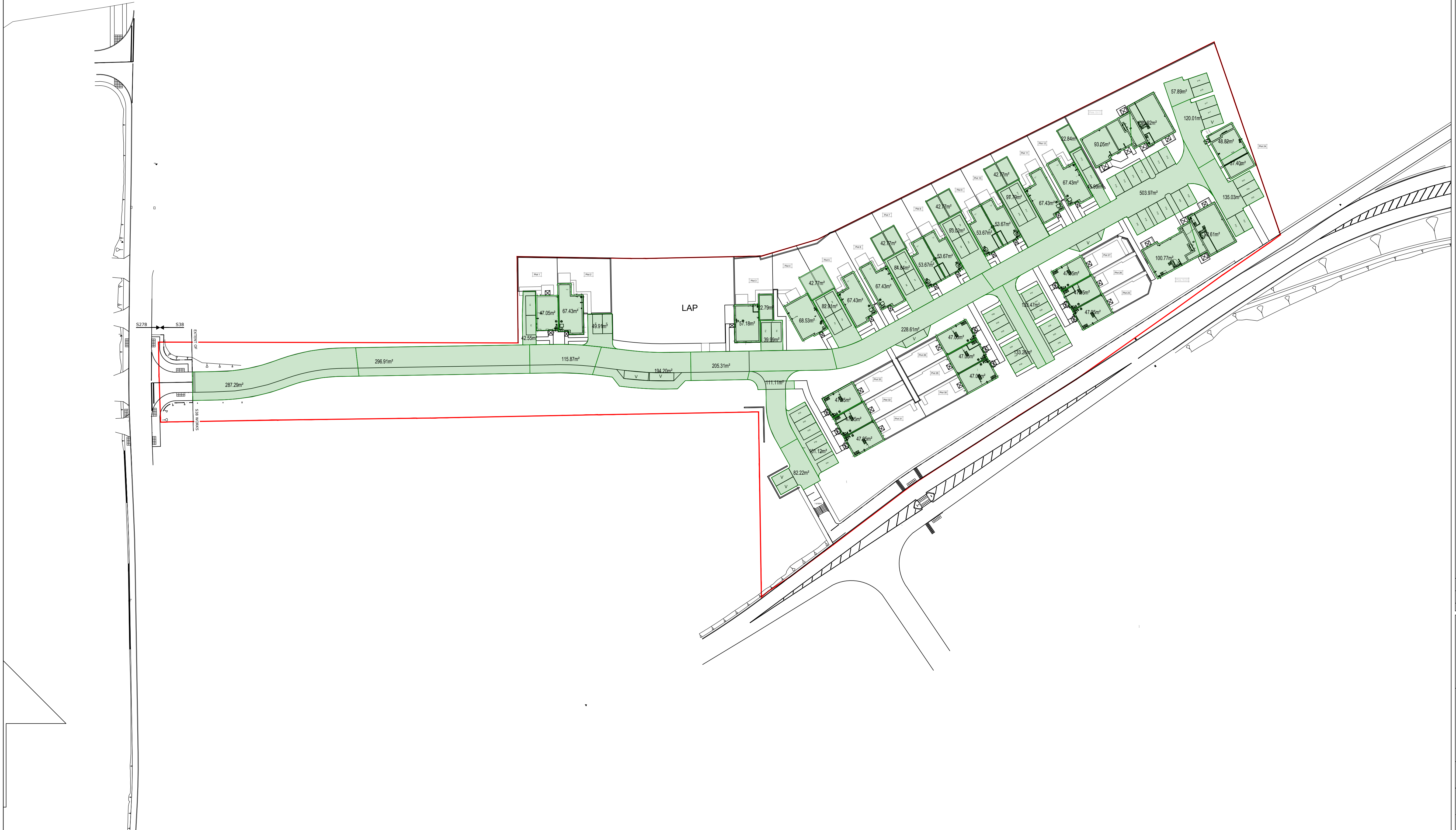
Title
CATCHMENT AREA LAYOUTS
SHEET 1

Project Phase

DETAILED DESIGN

Checked By	Checked Date	Drawn By	Drawn Date
COH	12.07.24	LC	12.07.24
Client Drawing No.	Scale		
-	1:500 (AT A1 SIZE)		
PBA Drawing No.	Revision		
189.5005.1321	B		

REFER TO PHASE 1A CALCULATIONS
CATCHMENT AREA: 0.549ha



1:500

0m 25m



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2. THE CONTRACTOR IS RESPONSIBLE FOR POSITELY IDENTIFYING ALL SERVICES ON SITE AND REPORTING THE POSITION AND DEPTH TO THE TECHNICAL DEPARTMENT AT CALA HOMES. WHEREVER POSSIBLE NON-INTRUSIVE METHODS, SUCH AS GPR, SHOULD BE USED.
3. THE CONTRACTOR IS TO STRIP THE SITE TOPSOIL IN SECTIONS, USING TRACKED EQUIPMENT AND IN DRY CONDITIONS. TOPSOIL AND SUBSOIL ARE TO BE STORED IN SEIZED STOCKPILES TO PROTECT THEM FROM EROSION. PRIOR TO PLACING TOPSOIL, THE SUBSOIL SHOULD BE RIPPED USING A SINGLE TYNE RIPPER TO A SUITABLE DEPTH TO ENCOURAGE POSITIVE DRAINAGE OF THE SOIL.
4. IN-SITU COR TESTS SHALL BE UNDERTAKEN FOR EACH SECTION OF HIGHWAY AT INTERVALS OF 25M OR LESS. RESULTS TO BE SUBMITTED TO THE TECHNICAL DEPARTMENT AT CALA HOMES FOR APPROVAL PRIOR TO CARRIAGEWAY CONSTRUCTION.
5. ALL DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE DESIGN AND CONSTRUCTION GUIDANCE (DCG), AND THE BUILDING REGULATIONS "APPROVED DOCUMENT H". ANY DISCREPANCIES SHOULD BE REPORTED TO CALA FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORKS.
6. ALL MANHOLE CHAMBER COVERS TO BE INSTALLED PARALLEL TO FINAL KERBS, EDGINGS, PAVING JOINTS OR BUILDING LINES AS APPROPRIATE. THE MANHOLE COVER SHALL BE PLACED ENTIRELY WITHIN ONE SURFACE FINISH.
7. THE CONTRACTOR IS TO SEEK APPROVAL FROM THE TECHNICAL DEPARTMENT AT CALA HOMES PRIOR TO ORDERING ANY PERFECT MANHOLES.
8. ON COMPLETION OF EACH BUILD AREA THE CONTRACTOR SHALL JET CLEAN AND CCTV ALL DRAINAGE AND PROVIDE A COPY OF THE VIDEO FOOTAGE AND P5F REPORT TO CALA. THE REPORT SHALL INCLUDE AN EXECUTIVE SUMMARY OF THE FINDINGS AND A SCHEMATIC OF THE DRAINAGE LAYOUT.
9. PRIOR TO FORMING EACH DWELLING ACCESS, THE CONTRACTOR SHALL CHECK THAT THE AS-BUILT LEVELS COMPLY WITH THE CURRENT VERSION OF THE NHBC TECHNICAL STANDARDS AND THE BUILDING REGULATIONS PART M. IF CLARIFICATION OR DESIGN CHANGE IS REQUIRED, THE CONTRACTOR SHALL AWAIT FURTHER INSTRUCTION FROM CALA BEFORE PROCEEDING.
10. THE CONTRACTOR IS TO PROVIDE AS-BUILT RECORDS IN PDF AND DWG FORMAT FOR THE FULL EXTENT OF THE WORKS. THIS IS TO INCLUDE (BUT NOT LIMITED TO) ALL SERVICES, HIGHWAYS, DRAINAGE, RETAINING STRUCTURES, AND ALL EXTERNAL AREAS.

LAND OWNERSHIP BOUNDARY

CATCHMENT AREAS

ALL HOUSES HAVE 10% URBAN CREEP ADDED

REFER TO CEP CALCULATIONS

REFER TO PHASE 1B CALCULATIONS
CATCHMENT AREA: 1.942ha

B	UPDATES TO CALA COMMENTS	17.07.24	LC	MW
A	FIRST ISSUE	12.07.24	LC	COH
Rev	Description	Date	By	Chkd



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Project Name
LAND NORTH OF WATER LANE
ANGMERING

Title
CATCHMENT AREA LAYOUTS
SHEET 2

Project Phase
DETAILED DESIGN

Checked By	Checked Date	Drawn By	Drawn Date
COH	12.07.24	LC	12.07.24
Client Drawing No.		Scale	
		1:500	(AT A1 SIZE)

PBA Drawing No.	Revision
189.5005.1322	B



1:500 0m 25m