

100mm at A0

TYPICAL VERTICAL BACK

	NOTES:
HEALTH & SAFETY RISKS	CONFLICT OF REQUIREMENTS EXIST THE ORDER OF PRECEDENCE SHALL BE AS SHOWN IN THE SPECIFICATION. OTHERWISE THE STRICTEST PROVISION SHALL GOVERN.
IN ADDITION TO THE STANDARD HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED ON THIS DRAWING.	2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DRAWINGS.
PLEASE NOTE THE FOLLOWING RESIDUAL HEALTH AND SAFETY RISKS	<ol> <li>DRAWINGS NOT TO BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER AND FURTHER INSTRUCTIONS OBTAINED BEFORE WORK IS COMMENCED.</li> </ol>
CONSTRUCTION RISKS CR 01 BURIED SERVICES - BURIED SERVICES - DAMAGE MAY RESULT IN ELECTROCUTION CAS LEAK EXPLOSION WATER LEAK OPTIME	4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THAT THE
ACCURATE LOCATIONS OF UNDERGROUND SERVICES PRIOR TO EXCAVATION.	BUILDING AND ITS COMPONENTS ARE SAFE DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS WHICH MAY BE NECESSARY, SUCH MATERIAL REMAINING THE THE PROPERTY OF THE CONTRACTOR ON
CR 02       UNKNOWN SERVICES - UNMAPPED CABLES SHOULD BE TREATED AS         'LIVE' UNTIL TESTS AND PROVEN OTHERWISE.         CR 03       UXO - REFER TO RISK ASSESSMENT IN GROUND INVESTIGATION.	COMPLETION, AND FOR ENSURING THAT THE WORKS AND ANY ADJACENT PROPERTIES ARE SAFE IN THE TEMPORARY CONDITION.
WORK TO HALT PENDING SPECIALIST REMOVAL. CR 04 DEEP EXCAVATIONS - RISK OF TRENCH COLLAPSE. LIMIT DEPTH OF	JOB NO: 49046 DRAWING REFERENCE TABLE THIS DRAWING TO BE READ IN CONJUNCTION
CR 05 UNTREATED/POLLUTED WATER CAN CAUSE ILL HEALTH THROGUH WATERBORNE DISEASES. STAFF WORKING ON OR NEAR SEWERS	ALAN WOOD & PARTNERS DRAWING REFERENCE - DRAINAGE LAYOUT - Z9A8403Y20-3300 - Z9A8403Y20 - Z9A8404 - Z9A840 - Z9A
MUST BE AWARE OF RISK. CR 06 GROUND AND GROUNDWATER CONDITIONS. RISK OF CONTAMINATION CONSTRUCTION PLINOEE TO BE MANAGED IN	- MANHOLE SCHEDULE SHEET 1         - Z9A8403Y20-3301           - MANHOLE SCHEDULE SHEET 2         - Z9A8403Y20-3302           - DRAINAGE SECTIONS SHEET 1         - Z9A8403Y20-3600
ACCORDANCE WITH CONTRACTOR PLAN.	- DRAINAGE DETAILS       - Z9A8403Y20-3601         - SITE HAZARD DRAWING       - Z9A8403Y20-4001         - TOPOGRAPHICAL, SERVICES & DRAINAGE       - Z9A8403Y20-4300
MR 01 DRAINAGE TO BE MAINTAINED IN ACCORDANCE WITH ALAN WOOD	- ENABLING WORKS & DIVERSIONS- Z9A8403Y20-4301- PROPOSED CUT AND FILL- Z9A8403Y20-4302- CONSTRUCTION SPECIFICATIONS & KERBING- Z9A8403Y20-4303
	- PROPOSED SITE STRIP PLAN AND VOLUMES- Z9A8403Y20-4304- PROPOSED FORMATION AREAS PLAN- Z9A8403Y20-4305- TOPSOIL STRIP TO PROPOSED LEVELS- Z9A8403Y20-4306
CONTRACTOR WORKING IN ACCORDANCE WITH THE REQUIREMENTS DEFINED IN THE CDM REGULATIONS.	
DRAINAGE NOTES:	
<ol> <li>DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING STANDARDS:</li> <li>BS EN 752:2008</li> </ol>	
<ul> <li>BUILDING REGULATIONS APPROVED DOCUMENT PART H, 2015</li> <li>EDITION</li> <li>NHBC STANDARDS CHAPTER 5.3, 2017 EDITION</li> </ul>	
<ul> <li>NHBC STANDARDS PLUS, 2017</li> <li>ALL COMPONENTS LISED IN DRAINAGE SYSTEMS TO COMPLY</li> </ul>	
WITH THE FOLLOWING: BS EN 476:2011 3. ALL DRAINAGE SYSTEMS AND COMPONENTS TO BE	
CONSTRUCTED AND TESTED TO THE FULL SATISFACTION OF BOTH BUILDING REGULATIONS AND WARRANTY PROVIDER INSPECTORS	
<ol> <li>ALL DRAINAGE TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH BS EN 1610:2015.</li> </ol>	
5. V.C. DENOTES VITRIFIED CLAY, VITRIFIED CLAY PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS	
EN295-1:2013,-2:2013,-3:2012 AND BS 65 RESPECTIVELY AND BE KITEMARKED. ALL PIPES SHALL BE EXTRA STRENGTH TO BS 65 OR EQUIVALENT BS EN295 PIPE CRUSHING STRENGTH	
<ol> <li>LATERAL DRAIN CONNECTIONS (PIPES CONNECTING INTO ADOPTABLE SEWERS) TO BE VITRIFIED CLAY, WHERE COVER IS</li> </ol>	
LESS THAN 1.2m TO GROUND LEVEL PIPE PROTECTION IS REQUIRED IN THE FORM OF A CONCRETE COVER SLAB.	
7. PVC-U DENOTES UNPLASTISED POLYVINYL CHLORIDE . PVC-U PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN1401 BS EN13476 2 AND BS46504000/0000	
RESPECTIVELY AND BE KITEMARKED.	
0. FREGAST CONCRETE MANHOLES TO BE IN ACCORDANCE WITH BS EN 1917:2002 AND BS 5911-3:2010,-4:2002 AND TO BE KITEMARKED. PRECAST CONCRETE RINGS AND COVER SLABS TO	
UNLESS NOTED OTHERWISE.	
<ul> <li>9. INSTED AND PRECAST CONCRETE UNITS SHALL HAVE SULPHATE RESISTING PORTLAND CEMENT TO BS EN 197-1:2011.</li> <li>40. DOLVERODY: ENERGY CONCRETE UNITS SHALL HAVE SULPHATE</li> </ul>	
IV. POLYPROPYLENE INSPECTION CHAMBERS TO COMPLY WITH BS EN 13598-1:2010,-2:2016 AND BS 7158:2001 AND TO BE KITEMARKED.	
11. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015. MANHOLE	
COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS	
B125 COVERS TO BE USED IN FOOTWAYS; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS. ALL COVERS TO BE BADGED "FW" OR "SW" AS APPROPRIATE. MANHOLE COVER	
SLABS AND ACCESS TO BE IN ACCORDANCE WITH CONCRETE PIPE ASSOCIATION TECHNICAL BULLETIN ISSUED SEPTEMBER 2001.	
12. POLYPROPYLENE INSPECTION CHAMBER COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1	
TO 6:2015. COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES;	
LOAD CLASS B125 COVERS TO BE USED IN FOOTWAYS; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS.	
13. ROAD GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE OF A NON-ROCKING DESIGN WITH LEFT HANDED CAPTIVE HINGE	
ACCESS AND BE KITEMARKED. LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. TYPE D400:450 GRATE AND FRAME. MINIMUM AREA OF WATERWAY TO BE 1010cm <sup>2</sup> .	
14. DRAINAGE CHANNELS TO BE ACO M100D 0.0 MULTIDRAIN CHANNEL (O.S.A) FITTED WITH SLOTTED DUCTILE IRON GRATING.	
GRATES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE KITEMARKED. LOAD CLASS A15 GRATES TO BE USED IN AREAS INACCESSIBLE TO VEHICLES;	
LOAD CLASS B125 GRATES TO BE USED IN FOOTWAYS; LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. SUMP UNIT AND SILT BUCKET UNITS TO BE USED ON ALL GULLIES.	
<ul> <li>15. CLASS Z BEDDING DETAIL SHALL BE PROVIDED:</li> <li>WHERE COVER TO PIPE BARREL IS;</li> </ul>	
<ul> <li>i) &lt;1.2m IN VEHICULAR TRAFFICKED AREAS</li> <li>ii) &lt;0.9m IN AREAS INACCESSIBLE TO VEHICLES.</li> <li>AT ALL ROAD GULLY, RWP, SVP AND DRAINAGE CHANNEL</li> </ul>	
<ul> <li>BRANCHES.</li> <li>AREAS OF DEEP ROOTING VEGETATION.</li> <li>WHERE TWO PIPES CROSS WITH A CLEAR GAP OF &lt;300mm.</li> </ul>	
CLASS Z SURROUND TO EXTEND A MINIMUM OF 1.0m FROM THE CENTRE OF THE CROSSING POINT & EXTENDED TO WITHIN 150mm OF THE NEAREST FLEXIBLE JOINT, WHERE REQUIRED.	
16. CLASS 'Y' BEDDING DETAIL TO BE PROVIDED TO ALL PIPEWORK BENEATH BUILDING FOOTPRINT WITH ROCKER PIPES PROVIDED	
AS CLOSE AS POSSIBLE TO BUILDING STRUCTURE WHERE PIPE EXITS	
17. NO MECHANICAL COMPACTION OF FILL MATERIAL WITHIN 300mm OF THE CROWN OF ANY PIPE.	
THE VERSIONS OF BRITISH STANDARDS AND OTHER PUBLICATIONS	
HOWEVER IF THESE HAVE BEEN REVISED OR UPDATED THEN THE NEWER VERSIONS SHOULD BE USED. ANY DISCREPANCIES SHOULD BE NOTIFIED TO AWP IMMEDIATELY	
100% STAGE 4 SUBMISSION	
	P2         RWP ADDITION         15.01.23         TG         DC         JAG
	P1     FIRST ISSUE     16.10.23     DC     JAG       Rev     Description     Date     By     Chk     App
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SECTIONS	$/ \Lambda / \Lambda / \Lambda /$
	Alan Wood & Partners
	Hull Office Consulting Civil
E	341 Beverley Road& Structural EngineersHullProject Managers
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	I. U1402 442138         Snemleid         I. 01142 440077           www.alanwood.co.uk         York         T. 01904 611594
M BACK	
	AIRFIELD, IPSWICH
	Client:
BACKDROP TO BE BROUGHT TO	ESS MODULAR
TOP OF BENCHING OR MINIMUM 150mm ABOVE THE INVERT LEVEL OF THE CHANNEL	Drawing:
	DRAINAGE DETAILS
	Drawing FOR APPROVAI
	Status.         Coue:         34           Job. no.         49046         Scale@ A0:         AS NOTED         Rev.         P2
	Project Originator Volume Level Type Role Number
	Z9A8403Y20 - AWP - ZZ - XX - DR - C - 00003601