



- NOTES:**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
 - DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
 - ALL DIMENSIONS ARE IN MILLIMETRES. ALL CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.
 - THE CONTRACTOR SHALL CHECK ALL EXISTING DIMENSIONS AND LEVELS ON SITE AND REPORT ANY ANOMALIES TO THE ENGINEER.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.
 - 'MARKED UP' DRAWINGS ARE TO BE PROVIDED TO THE ENGINEER UPON COMPLETION TO ENABLE PRODUCTION OF 'AS BUILT' DRAWINGS IN ACCORDANCE WITH CONSTRUCTION (DESIGN & MANAGEMENT):2007 REGULATIONS 22(J).
 - ALL EXTERNAL DRAINAGE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH 'CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY' 7TH EDITION FOR ADOPTABLE DRAINAGE, AND TO THE RELEVANT PROJECT SPECIFICATION AS DIRECTED BY THE ENGINEER FOR PRIVATE DRAINAGE.
 - PIPE MATERIAL SHALL BE AS FOLLOWS:
Ø100 TO Ø225 - CLAYWARE TO BS EN 295
Ø300 AND ABOVE - CONCRETE TO BS EN 1916.
N.B PVC-U PIPES TO BE EN 1401-1:1998 MAY BE USED SUBJECT TO THE APPROVAL OF THE ENGINEER. PIPES OF LESS THAN 400MM DIAMETER TO HAVE A RESISTANCE OF 270 BAR.
 - CLAY AND CONCRETE PIPES SHALL BE BEDDED ON CLASS S BEDDING UNLESS COVER IS LESS THAN 1.2m IN TRAFFICKED AREAS, THEN CLASS Z BEDDING.
 - PVC-U PIPES SHALL BE BEDDED ON CLASS P BEDDING UNLESS COVER IS LESS THAN 1.2m IN TRAFFICKED AREAS, THEN CLASS Q BEDDING.
 - BACKFILL TO TRENCHES MAY BE SUITABLE EXCAVATED MATERIAL IN LANDSCAPED AREAS & UNDER DRIVEWAYS, PATIOS ETC. TYPE 1 GRANULAR MATERIAL TO BE USED UNDER HARDSTANDINGS AND ROADS.
 - ROAD GULLY CONNECTIONS SHALL BE 150mm DIAMETER AND WITH CLASS Z BEDDING.
 - ROAD GULLIES SHALL BE TRAPPED 450mm DIAMETER X 900mm DEEP WITH CLASS D400 FRAME AND GRATING TO BS EN 124.
 - ALL MANHOLE AND DRAINAGE CHANNEL COVERS SHALL COMPLY WITH BS EN 124. FOR DETAILS OF COVER TYPE & LOCATION, PLEASE REFER TO THE MANHOLE SCHEDULE. MANHOLE COVERS WITHIN BLOCK PAVED AREAS & BUILDINGS SHALL BE RECESSED, DOUBLE SEALED WITHIN BUILDING.
 - FOR DETAILS OF MANHOLE TYPES AND PIPE BEDDING ETC, SEE STANDARD DETAIL DRAWING(S).
 - COVER LEVELS SHOWN ARE APPROXIMATE. COVER LEVELS FOR MANHOLES WITHIN LANDSCAPED AREAS SHOULD BE CHECKED WITH THE LANDSCAPE ARCHITECTS. COVERS SHOULD BE ADJUSTED TO MATCH SURROUNDING FINISH LEVELS.
 - THE CONTRACTOR IS TO PROTECT EXISTING BURIED PIPES (PARTICULARLY SHALLOW PIPES) AND TREE ROOTS FROM DAMAGE CAUSED BY LOADS IMPOSED BY CONSTRUCTION.
 - REFER TO DMRB DRAINAGE HIGHWAY CONSTRUCTION DETAILS, DRAWING NUMBER F3. MANHOLE TO BE IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS.

KEY:

- EXISTING HIGHWAY BOUNDARY
- EXISTING RELOCATED ROAD GULLY REQUIRING NEW CONNECTION
- EXISTING RELOCATED ROAD GULLY CONNECTING INTO THE EXISTING CONNECTION
- PROPOSED ROAD GULLY AND CONNECTION
- PROPOSED 300mmØ PERFORATED PIPE
- PROPOSED 300mmØ CLAY PIPE
- PROPOSED HEADWALL
- PROPOSED CHAMBER TYPE F3
- PROPOSED HIGHWAY BOUNDARY

SCALE REFERENCE:

0 50m 100m
1:1000

E	LAYOUT UPDATED	09.03.17	JSt	AF	AF
D	HIGHWAY BOUNDARY UPDATED	20.02.17	SB	AF	AF
C	UPDATED HIGHWAY BOUNDARY & MASTERPLAN	23.09.16	OE	EJT	AF
B	UPDATED TO SUIT AMENDMENTS FROM RSA STAGE 2.	18.07.16	SAB	AF	AF
A	DRAINAGE LAYOUT REVISED	10.06.16	SAB	EJT	EJT
Mark	Revision	Date	Drawn	Chkd	Appd

SCALING NOTE: Do not scale from this drawing. If in doubt, ask.

UTILITIES NOTE: The position of any existing public or private sewers, utility services, plant or apparatus shown on this drawing is believed to be correct, but no warranty to this is expressed or implied. Other such plant or apparatus may also be present but not shown. The Contractor is therefore advised to undertake his own investigation where the presence of any existing sewers, services, plant or apparatus may affect his operations.

Drawing Issue Status **FOR APPROVAL**

SOUTH EAST BICESTER SECTION 278 APPLICATION PROPOSED DRAINAGE LAYOUT

Client

db symmetry

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Date of 1st Issue	Designed	Drawn
31.05.16	SAB	SAB
A1 Scale	Checked	Approved
1:500	AF	AF
Drawing Number	Revision	
32765-2004-0500	E	

TECHNICAL APPROVAL DRAWING:
THIS DRAWING IS ISSUED FOR TECHNICAL APPROVAL AND MUST NOT BE READ AS A CONSTRUCTION ISSUE.
IT INDICATES DESIGN INTENT ONLY AND IS SUBJECT TO AMENDMENT PRIOR TO CONSTRUCTION ISSUE.

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