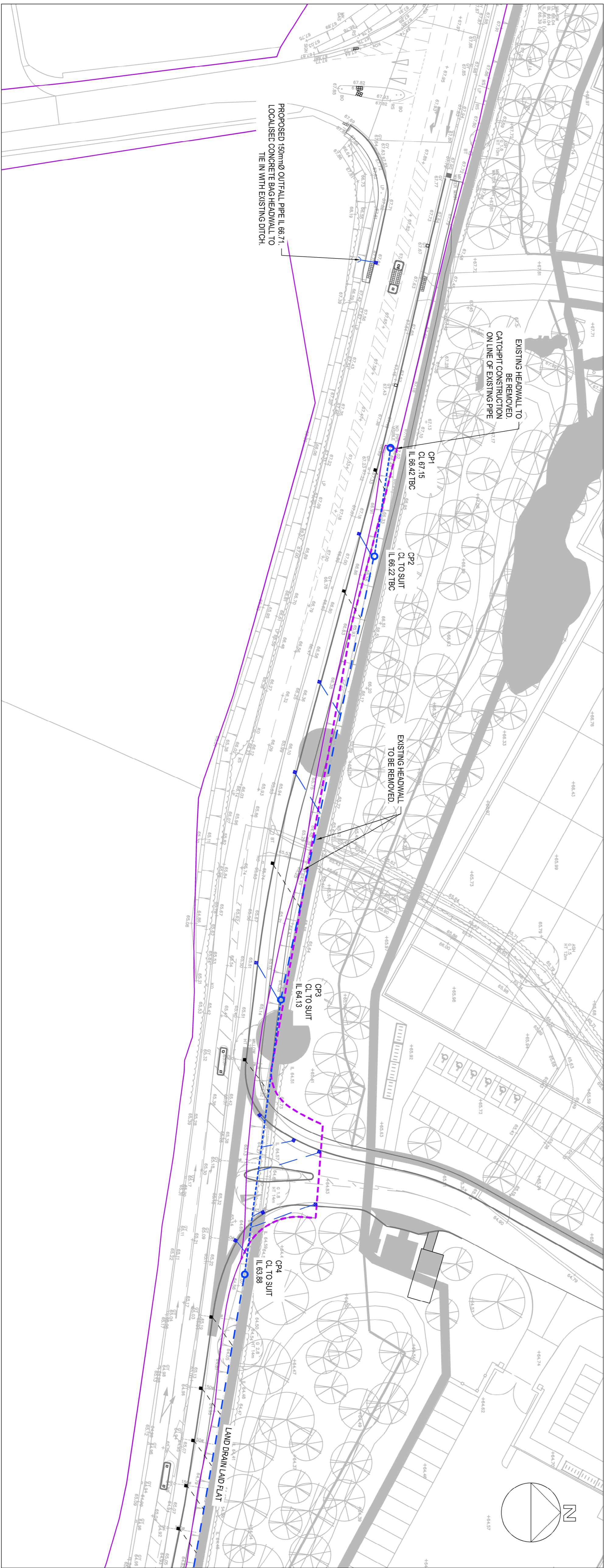


- KEY**
- EXISTING HIGHWAY BOUNDARY
 - EXISTING RELOCATED ROAD GULLY REQUIRING NEW CONNECTION
 - EXISTING RELOCATED ROAD GULLY CONNECTING INTO THE EXISTING CONNECTION
 - PROPOSED ROAD GULLY AND CONNECTION
 - PROPOSED 300mm PERFORATED PIPE (REFER LAND DRAIN DETAIL)
 - PROPOSED 300mm CLAY PIPE
 - PROPOSED HEADWALL
 - PROPOSED CATCHPIT TYPE 7 REFER HOD F11
 - PROPOSED HIGHWAY BOUNDARY



PROPOSED 150mm OUTFALL PIPE I.L. 68.71 LOCALISE CONCRETE BAG HEADWALL TO TIE IN WITH EXISTING DITCH.

NOTES:

1. THIS DRAWING IS NOT TO BE SCALED.
2. ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE BEFORE THE COMMENCEMENT OF WORKS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT AND ENGINEER FOR VERIFICATION. FIGURED DIMENSIONS ONLY ARE TO BE TAKEN FROM THIS DRAWING.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATIONS.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH AND SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.
5. MARKED UP DRAWINGS ARE TO BE PROVIDED TO THE ENGINEER UPON COMPLETION TO ENABLE PRODUCTION OF AS BUILT DRAWINGS AND TO BE USED FOR CONSTRUCTION (DESIGN & MANAGEMENT) 2015 REGULATIONS 24(9).
6. ALL EXTERNAL DRAINAGE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY 7TH EDITION FOR ADAPTABLE DRAINAGE AND TO THE RELEVANT PROJECT SPECIFICATION AS DIRECTED BY THE ENGINEER FOR PRIVATE DRAINAGE.
7. PIPE MATERIAL SHALL BE AS FOLLOWS:
 Ø100 TO Ø225 - CLAYWARE TO BS EN 256
 Ø300 AND ABOVE - CONCRETE TO BS EN 1916.
 NB PVC-U PIPES TO BS EN 14011:1998 MAY BE USED SUBJECT TO THE APPROVAL OF THE ENGINEER. PIPES OF LESS THAN 400mm DIAMETER TO HAVE A RESISTANCE OF 270 BAK.
 CLAY AND CONCRETE PIPES SHALL BE BEDDED ON CLASS 5 BEDDING UNLESS COVER IS LESS THAN 1.2m IN TRAFFICKED AREAS, THEN CLASS 2 BEDDING.
8. PVC-U PIPES SHALL BE BEDDED ON CLASS P BEDDING UNLESS COVER IS LESS THAN 1.2m IN TRAFFICKED AREAS, THEN CLASS 0 BEDDING.
9. BACKFILL TO TRENCHES MAY BE SUITABLE EXCAVATED MATERIAL IN LANDSCAPED AREAS & UNDER DRIVEWAYS, PATIOS ETC. TYPE 1 GRANULAR MATERIAL TO BE USED UNDER HARDESTANDINGS AND ROADS.
10. ROAD GULLY CONNECTIONS SHALL BE 150mm DIAMETER AND WITH CLASS 2 BEDDING.
11. ROAD GULLIES SHALL BE TRAPPED 450mm DIAMETER X 900mm DEEP WITH CLASS 2400 FRAME AND GRATING TO BS EN 124.
12. 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.
13. FOR DETAILS OF MANHOLE TYPES AND PIPE BEDDING ETC, SEE STANDARD DETAIL DRAWING(S).
14. COVER LEVELS, SLOPES, 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.
15. THE CONTRACTOR IS TO PROTECT EXISTING BURIED PIPES (PARTICULARLY SHALLOW PIPES) AND TREE ROOTS FROM DAMAGE CAUSED BY LOADS IMPOSED BY CONSTRUCTION.
16. REFER TO DWB8 DRAINAGE HIGHWAY CONSTRUCTION DETAILS, DRAWING NUMBER F8, MANHOLE TO BE IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS.

Rev	Date	Description	By	Chd
C2	15.06.17	MANHOLE TYPE AMENDED TO SUIT OCC COMMENTS	GW	JH
C1	11.05.17	CONSTRUCTION ISSUE	GW	CB

Architect:
php architects

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db symmetry

Project Title:
SYMMETRY PARK, A41 BICESTER SECTION 278 APPLICATION

Drawing Title:
PROPOSED DRAINAGE LAYOUT

CONSTRUCTION ISSUE

Hydrock Job No	C161147	Issue Date	11.05.17
Drawn	Checked	Scale @ A1	Date
GW	CB	1:500	11.05.17
Drawing Number	C161147/C/0500	Revision	C2