



**DO NOT SCALE FROM THIS DRAWING**

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER HBL DRAWINGS ISSUED FOR THIS PROJECT

- ADOPTABLE DRAINAGE NOTES:**
- THIS DRAWING IS SUBJECT TO APPROVAL BY LOCAL AUTHORITY, BUILDING CONTROL AND / OR SEWERAGE UNDERTAKER. ANY WORKS UNDERTAKEN PRIOR TO THE GRANTING OF THESE APPROVALS IS CARRIED OUT AT RISK TO OTHERS.
  - PRIOR TO COMMENCING WORK ON THE DRAINAGE, ALL EXISTING DRAINS, SEWERS, MANHOLES AND OUTFALLS TO REMAIN SHALL BE LOCATED, IDENTIFIED AND A CCTV CONDITION SURVEY CARRIED OUT. WHERE NECESSARY, PROTECTION TO THE EXISTING DRAINAGE INFRASTRUCTURE SHALL BE PROVIDED.
  - ALL EXISTING SEWERS AND MANHOLES ABANDONED DUE TO THE PROPOSED WORKS ARE TO BE EITHER REMOVED, AND SUITABLY BACKFILLED OR GROUTED UP.
  - ALL MANHOLE COVERS TO COMPLY WITH BS EN 124, AND BE KITEMARKED.
  - COVER LEVELS FOR MANHOLES ARE APPROXIMATE ONLY AND SHOULD BE ADJUSTED TO MATCH SURROUNDING LEVELS.
  - IN BLOCK PAVED AREAS 'INFILL' TYPE COVERS SHOULD NOT BE USED, AND FRAMES MUST BE 150MM DEEP.
  - ALL MANHOLE AND DRAINAGE COVERS SHALL COMPLY WITH BS EN124, BS EN13598-1 AND HA104/09. COVER STRENGTHS TO BE:-  
CLASS E600 IN AREAS OF HEAVY LOADING.  
CLASS D400 IN ALL TRAFFICKED AREAS (ROADS, HARD SHOULDER, PARKING AREAS AND SERVICES YARDS). MANHOLE COVERS ON FOUL ONLY SEWERS SHALL BE OF LOW LEAKAGE TYPES IN ORDER TO PREVENT EXCESSIVE SURFACE WATER INGRESS.
  - DRAINAGE PIPES 100MM Ø UNLESS STATED OTHERWISE. PIPES TO BE - VITRIFIED CLAY TO BS EN 295 OR CONCRETE TO BS 5911 OR UPVC PIPES TO BS EN 1452 OR THERMOPLASTIC STRUCTURED WALL PIPES COMPLYING WITH WIS 4-35-01. BSI KITEMARKED. CLASS 8KMM NOMINAL SHORT TERM RING STIFFNESS.
  - ALL SEWER PIPES 300MM DIAMETER OR LARGER, TO BE CONCRETE PIPES, TO BS 5911, UNLESS NOTED OTHERWISE.
  - ALL PIPES TO BE LAID WITH SOFFITS LEVEL, UNLESS NOTED OTHERWISE.
  - WHERE COVER TO PIPES IS LESS THAN 1200MM UNDER CARRIAGEWAY - CONCRETE BED AND SURROUND OR CONCRETE PROTECTION SLAB IS REQUIRED.
  - ALL CONCRETE TO DRAINAGE MANHOLES BASES, SURROUNDS ETC TO BE IN ACCORDANCE WITH THE BRE SPECIAL DIGEST 1 - CONCRETE IN AGGRESSIVE GROUND. REFER TO SITE INVESTIGATION REPORT FOR SULPHATE REQUIREMENTS.
  - ALL MANHOLES, PIPE TRENCHES ETC. TO BE BACKFILLED WITH IMPORTED GRANULAR FILL TO CLASS BF4/BS (CAPPING MATERIAL) TO (SHW) TABLE 6/1 & COMPACTED IN ACCORDANCE WITH TABLE 6/4.
  - ALL PIPELINES SHALL BE TESTED BOTH BEFORE AND AFTER BACKFILLING, USING EITHER AIR TEST OR WATER TEST, IN ACCORDANCE WITH BS EN 1610.
  - UPON COMPLETION OF THE DRAINAGE WORKS ALL DRAINS SHALL BE FLUSHED OUT AND CCTV SURVEYED AND SHOWN TO BE FREE OF ALL SILT AND DEBRIS AND TO HAVE NO JOINT DISPLACEMENTS OR OTHER DEFECTS. A COPY OF THE WRITTEN REPORT AND VIDEO IS TO BE FORWARDED TO THE ENGINEERS FOR COMMENT. ANY DEFECTS SHALL BE ATTRIBUTABLE TO THE CONTRACTOR FOR RECTIFICATION UNLESS INDICATED OTHERWISE BY THE CCTV REPORT AND AGREED WITH THE ENGINEERS.
  - ADOPTABLE DEMARCATION MANHOLES AND LATERAL DRAINS NEED TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT WATER UK/WRC 'SEWERAGE SECTOR GUIDANCE - APPENDIX C' AND THE ADOPTING WATER AUTHORITIES RECOMMENDATIONS.

- KEY - PLAN**
- SITE BOUNDARY
  - PROPOSED S104 STORM DRAINAGE
  - PROPOSED S104 FOUL DRAINAGE
  - PROPOSED S104 COMBINED DRAINAGE
  - PROPOSED SURFACE WATER DEMARCATION DRAIN
  - PROPOSED FOUL WATER DEMARCATION DRAIN
  - PROPOSED GULLIES AND CONNECTIONS

- S104 DRAINAGE TO FOLLOW DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION. DETAILS PROVIDED BY WATER UK. SUBJECT TO ADOPTING AUTHORITY TECHNICAL APPROVAL.**
- CP = CATCHPIT  
FCC = FLOW CONTROL CHAMBER
- EXISTING ASSUMED WATERCOURSE
  - EXISTING HIGHWAY DRAIN ASSUMED ROUTE
  - EXISTING COMBINED SEWER
  - EXISTING FOUL SEWER
  - EXISTING FOUL RISING MAIN
  - ADOPTING AUTHORITY EASEMENT
  - BASIN MAX WATER LEVEL
  - BASIN MAINTENANCE ACCESS
  - HIGHWAY EASEMENT

- BASIN STORAGE EXTENTS, ACCESS AND MAINTENANCE ROUTE DENOTE EXTENTS OF ADOPTING AUTHORITY ADOPTION FOR BASINS**
- PROPOSED CONTOURS 0.25m INTERVALS
  - EARTHWORKS TIE IN POINT TO EXISTING
  - ABANDONED CULVERT ROUTE
  - PROPOSED CULVERT DIVERSION ROUTE
  - EXISTING CULVERT ROUTE

PO3	06.03.26	SP	ISSUED FOR TECHNICAL APPROVAL	AC	RJ
PO2	16.11.25	RJ	REVISED DRAINAGE TO SUIT LATEST MASTERPLAN LAYOUT	RJ	RJ
PO1	06.11.25	AC	TENDER DRAWING	RJ	RJ
REV.	DATE	DRAWN	DESCRIPTION	CHKD	APPRD

STATUS DESCRIPTION STATUS  
FOR TECHNICAL APPROVAL S4

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PROJECT: WOOLLEY COLLIERY

DRAWING TITLE: SECTION 104 AGREEMENT PLAN OVERVIEW

CLIENT: MJ GLEESON

HBL REF.	DATE	SCALE(S)	
10701	OCT 25	1:1250	A1

DRAWN	CHECKED	APPROVED
RJ	RJ	RJ

DRAWING No.	REV.
10701-HBL-XX-XX-DR-C-5500	P03