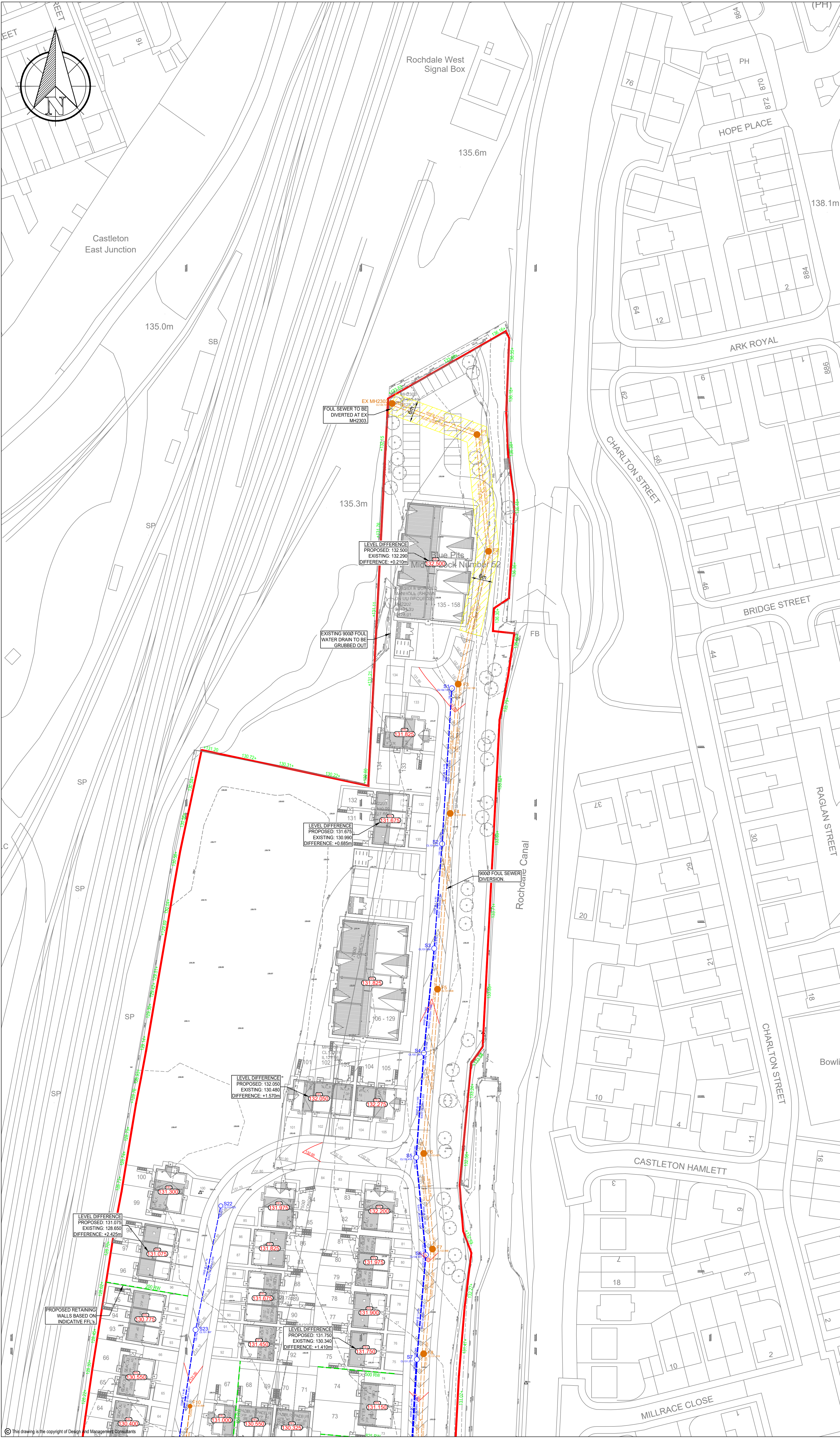




- NOTES
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 2. DO NOT SCALE THIS DRAWING. ALL DETAILS AND DIMENSIONS ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
 3. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
 4. ALL LEVELS ARE RELEVANT TO ORDNANCE DATUM (NEWLYN).
 5. LOCATION OF EXISTING SEWERS, UTILITIES AND SERVICES TO BE SURVEYED BEFORE COMMENCING WORK ON SITE.
 6. MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
 7. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF UNITED UTILITIES BEFORE ANY SEWER WORKS ARE CARRIED OUT.
 8. COVER SLABS MUST CARRY THE BSI KITEMARK OR WILL BE REJECTED BY UNITED UTILITIES INSPECTOR. WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME, A LOADING BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600mm x 600mm FOR THE SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA), 'TECHNICAL BULLETIN' ISSUED AUTUMN 2004 FOR KITE MARKED COVER SLAB OPENING SIZES.
 9. SULPHATE RESISTANT CEMENT (C20-DC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
 10. THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
 11. 'SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES (PLEASE ALSO REFER TO FIGURE 2.3 ON PAGE 33 IN 'SEWERS FOR ADOPTION' 6TH EDITION FOR RESTRICTIONS ON TREE PLANTING ADJACENT TO SEWERS)'.
12. SEWERS TO BE LAID IN CLASS 'S' BEDDING (150mm GRANULAR BED AND SURROUND), WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2M IN HIGHWAYS AND VERGES (OR LESS THAN 900MM IN NON VEHICULAR ACCESS THEN A CONCRETE SLAB SHOULD BE PROVIDE ABOVE GRANULAR BED AND SURROUND).
 13. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
 14. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
 15. 'THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA. 40KN/m, 150mm DIA. 40KN/m, 225mm DIA. 45KN/m and 300mm DIA. 72KN/m. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE TO CLASS 120 TO EN 1916 / BS 5911-1:2002'.
 16. PRIVATE DRAINAGE SHOWN ON THIS DRAWING FOR INFORMATION. REFER TO APPROPRIATE ELLUC PROJECTS DRAWINGS FOR CURRENT LAYOUTS AND ADDITIONAL INFORMATION.
 17. INVERT AND COVER LEVELS OF EXISTING MANHOLE TO BE CONFIRMED PRIOR TO WORKS COMMENCING ON SITE.

KEY:	
Description	Item
Site Boundary	—
Proposed Retaining Walls	---
Existing Boundary Levels	135.50+
Proposed Finished Floor Levels	150.375
Primary Road Contours	66.50
Secondary Road Contours	66.50
Proposed Surface Drainage	—
Proposed Foul Drainage	—
Drainage Easement	---

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Status:	Description:	Date:	By:	Chkd:
Client:	PRELIMINARY			
Project:	MCI DEVELOPMENTS			
Dwg Title:	TRUB FARM ROCHDALE			
CONCEPT DRAINAGE & LEVELS LAYOUT - SHEET 1 OF 2				
DAM DESIGN AND MANAGEMENT CONSULTANTS				
DESIGN AND MANAGEMENT CONSULTANTS LTD. 760 MANDARIN COURT CENTRE PARK, WARRINGTON CHESHIRE WA1 1GG Phone: (01925) 36 30 33 Email: BD@DAM-Consultants.com Website: DAM-Consultants.com				
Scale:	Size:	First Issue:	Drawn:	Checked:
1:500	A1	03/25	JC	DW
Drawing No: 24018-C-0001				