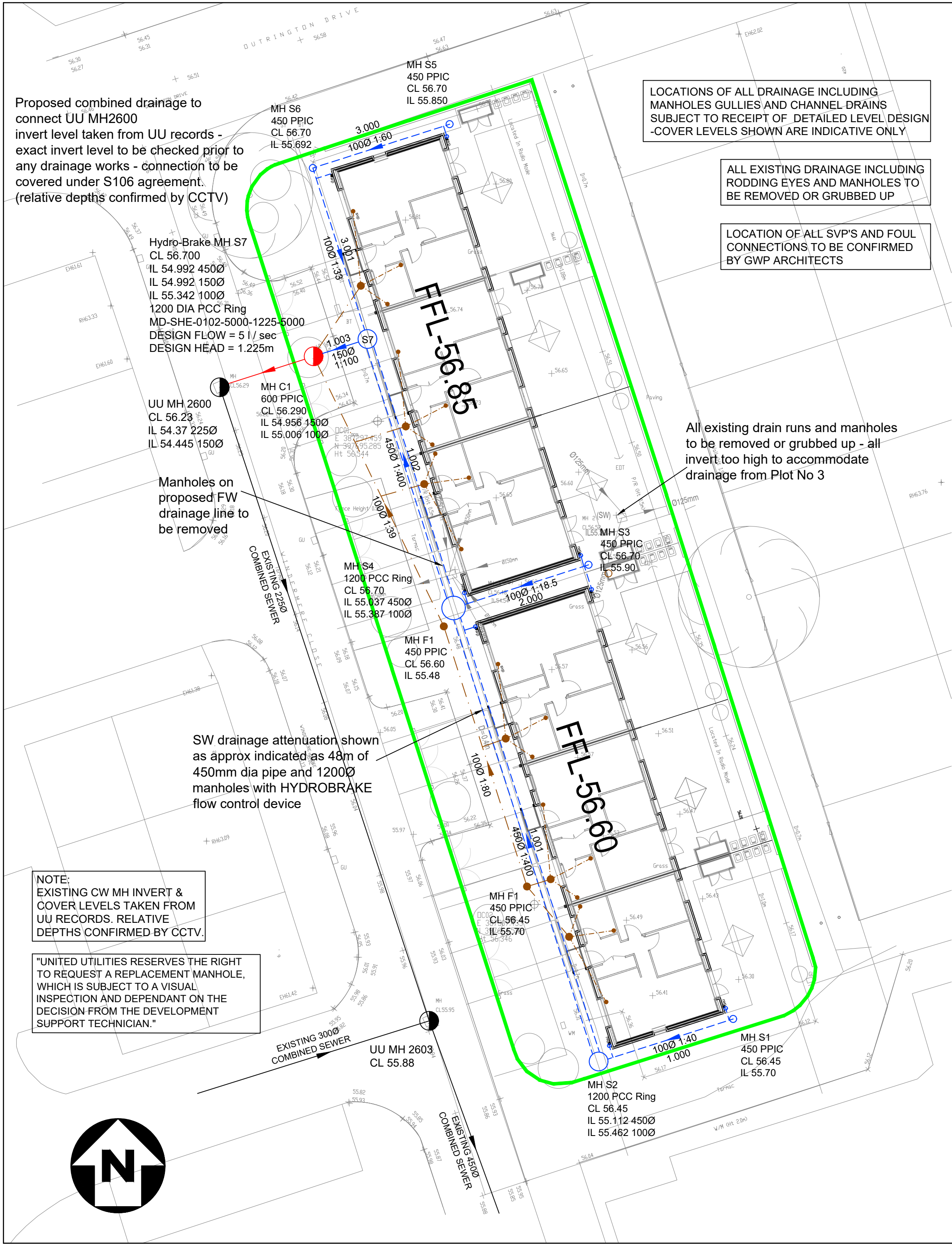




GENERAL NOTES

DO NOT SCALE FROM THIS DRAWING WORK TO FIGURED DIMENSIONS ONLY.

NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS ALLOWED WITHOUT PRIOR PERMISSION IN WRITING.

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND THE SPECIFICATION.

THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH AND SAFETY PLAN.

SURFACE WATER DRAINAGE STRATEGY

THE SURFACE WATER DRAINAGE PROPOSALS HAVE BEEN DESIGNED IN ACCORDANCE WITH BS EN 752-4 AND THE BUILDING REGULATIONS APPROVED DOCUMENT H (2010), WHICH INDICATES THE FOLLOWING HIERARCHY FOR THE DISPOSAL OF SURFACE WATER DRAINAGE FROM DEVELOPMENT SITES:-

1. DISCHARGE VIA INFILTRATION;
2. DISCHARGE TO WATERCOURSE;
3. DISCHARGE TO SEWER.

THESE OPTIONS ARE DISCUSSED IN FURTHER DETAIL BELOW.

SURFACE WATER DISCHARGE VIA INFILTRATION

FROM THE INFORMATION AVAILABLE TO DATE, IT WOULD APPEAR THAT THE GROUND CONDITIONS AT THE SITE ARE COHESIVE (GLACIAL TILL), HENCE THE USE OF INFILTRATION / SOAKAWAY TECHNIQUES IS CONSIDERED TO NOT BE FEASIBLE.

SURFACE WATER DISCHARGE VIA WATERCOURSE

THERE ARE NO EXISTING WATERCOURSES IN THE VICINITY OF THE SITE. ON THIS BASIS, IT IS CONSIDERED NOT FEASIBLE TO DISCHARGE THE SURFACE WATER RUNOFF FROM THE PROPOSED DEVELOPMENT TO AN EXISTING WATERCOURSE.

SURFACE WATER DISCHARGE TO EXISTING UU SEWER

IT IS PROPOSED THAT SURFACE WATER WILL DISCHARGE TO THE EXISTING PUBLIC COMBINED SEWER WITHIN WINDERMERE CLOSE.

THE DRAINAGE STRATEGY PUT FORWARD IN THIS DOCUMENT IS BASED ON THE ASSUMPTION THAT SURFACE WATER DISCHARGE IS ALLOWED TO PASS INTO THE EXISTING PUBLIC COMBINED SEWER WITHIN WINDERMERE CLOSE AT A RESTRICTED RATE OF 5 l/sec.

FOUL WATER DESIGN

IT IS PROPOSED THAT FOUL WATER DRAINAGE WILL DISCHARGE INTO THEEXISTING PUBLIC COMBINED SEWER WITHIN WINDERMERE CLOSE VIA A NEW FOUL WATER DRAINAGE SYSTEM CONNECTING INTO THE EXISTING COMBINED DRAINAGE CONNECTION.

LEVEL ASSUMPTIONS

DUE TO THE SURVEY NOT HAVING DRAINAGE INVERT LEVELS, WE HAVE CALCULATED THESE INVERT LEVELS IN CONJUNCTION WITH THE 'GUN' DRAINAGE SURVEY. ALL EXISTING DRAINAGE ACCEPT THE CONNECTION FROM THE SITE INTO WINDERMERE CLOSE WILL BE REMOVED OR GRUBBED UP.

THE SITE FALLS GENTLY TOWARDS THE SOUTHERN BOUNDARY, WE HAVE HAD TO ASSUME A CONNECTION LEVEL INTO THE COMBINED DRAIN WHICH IS SUBJECT TO SURVEYED LEVELS. IT IS ALSO WORTH NOTING TO GET COVER IN THE DRIVEWAY AND AROUND THE PLOTS THE FW SEWERS WILL BE LAID AT MINIMUM GRADIENTS TO ACHIEVE SELF-CLEANSING AND MAY NEED TO BE ENCASED IN CONCRETE WHERE COVER IS REDUCED.

DRAINAGE KEY:

PROPOSED SITE BOUNDARY	
FINISHED FLOOR LEVEL	FFL 56.25
PROPOSED SW SEWER	
PROPOSED FW SEWER	
PROPOSED COMBINED SEWER	
EXISTING COMBINED SEWER	

MANHOLES -
FOR TYPICAL DRAINAGE CONSTRUCTION DETAILS REFER TO UNITED UTILITIES STANDARD DETAILS.

100mm DIA DRAIN, SUPERSLEEVE OR SIMILAR APPROVED. 150mm DIA HEPSLEEVE OR SIMILAR APPROVED FOR ALL CONNECTIONS TO SEWERS/MANHOLES AND WHERE NOTED.

P02	CONSTRUCTION ISSUE, DRAWING NAME UPDATED.	03.03.20	RH	KPT
P01	FRA ISSUE	11.07.19	RH	KPT
Rev.	Amendment	Date	By	Chkd

Project
**WINDERMERE CLOSE
OPENSHAW**

Client
ECO-RES LLP

Title
**DETAILED DRAINAGE
LAYOUT**

WML Job No.	Drawn	Checked	Date	Scale
8755G	RH	KPT	JULY 2019	1:200 @ A2

WML CONSULTING
Civil, Structural & Geotechnical Engineers
No.8 Oak Green
Earl Road
Stanley Green Business Park
Cheadle Hulme
Cheshire SK8 6QL
Tel 0161 482 0600
Fax 0161 486 9210
e-mail info@wmlconsulting.com
www.wmlconsulting.com

Drawing No.	Project	Originator	Volume	Level	Type	Role	Number	Rev
8755G - WML	-	00	-	XX	-	DR	-	S - 0001 P2