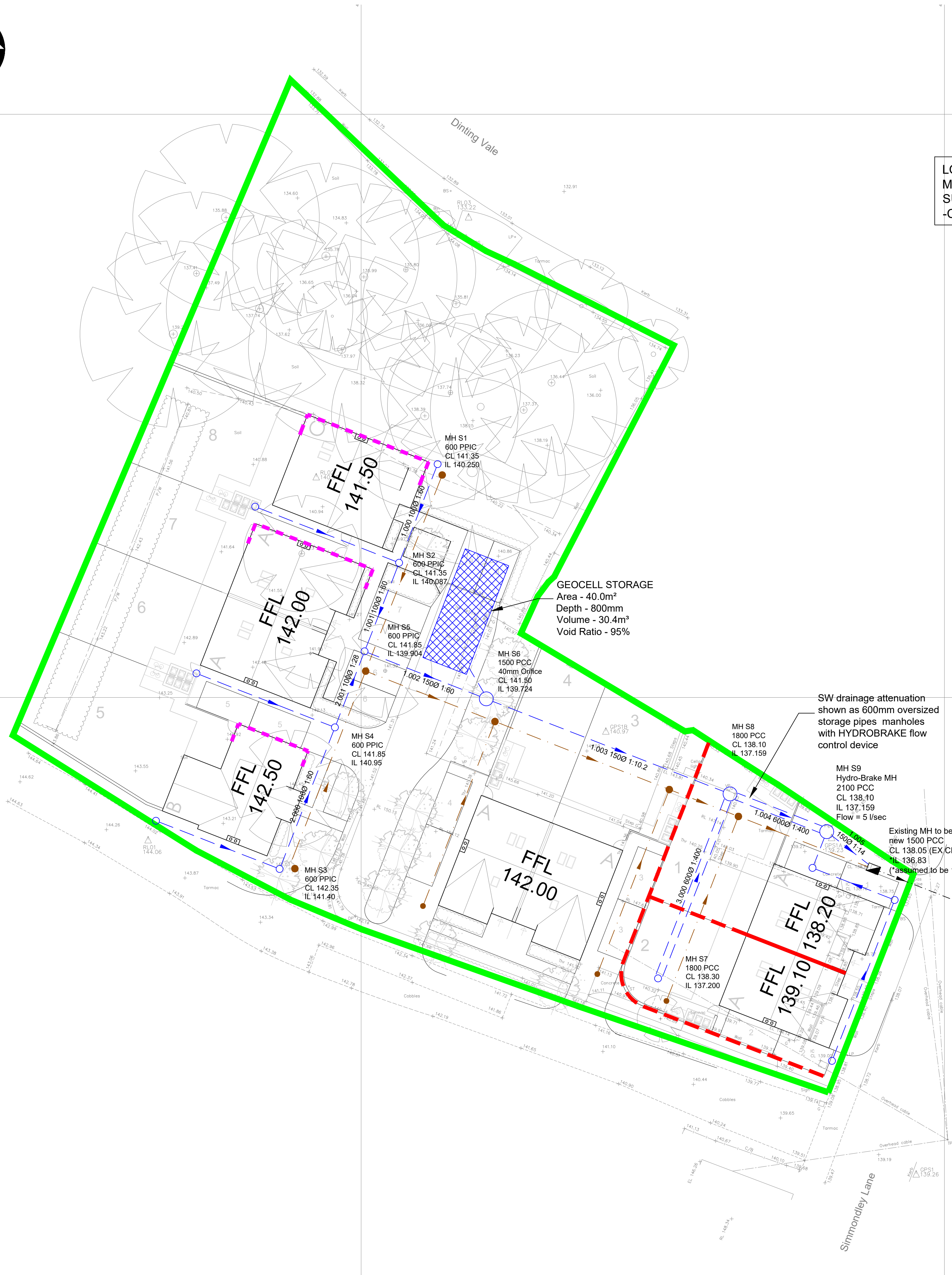
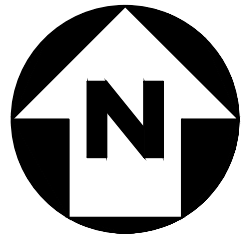




LOCATIONS OF ALL DRAINAGE INCLUDING
MANHOLES GULLIES AND CHANNEL DRAINS
SUBJECT TO RECEIPT OF DETAILED LEVEL DESIGN
-COVER LEVELS SHOWN ARE INDICATIVE ONLY

ALL EXISTING DRAINAGE INCLUDING
RODDING EYES AND MANHOLES TO
BE REMOVED OR GRUBBED UP

LOCATION OF ALL SVP'S AND FOUL
CONNECTIONS TO BE CONFIRMED
BY ARCHITECTS

"UNITED UTILITIES RESERVES THE
RIGHT TO REQUEST A REPLACEMENT
MANHOLE, WHICH IS SUBJECT TO A
VISUAL INSPECTION AND DEPENDANT
ON THE DECISION FROM THE
DEVELOPMENT SUPPORT TECHNICIAN."

GEOCELL STORAGE
Area - 40.0m²
Depth - 800mm
Volume - 30.4m³
Void Ratio - 95%

SW drainage attenuation
shown as 600mm oversized
storage pipes manholes
with HYDROBRAKE flow
control device

MH S9
Hydro-Brake MH
2100 PCC
CL 138.10
IL 137.159
Flow = 5 l/sec

Existing MH to be replaced with
new 1500 PCC
CL 138.05 (EX CL 138.86)
IL 136.83
(assumed to be 1500)

Proposed combined drainage to connect
existing manhole within the site boundary,
utilising the existing connection into the
adoptable UU system within Simmondley Lane
subject to connection invert levels.
Exact outfall diameter, invert level, condition
and usage of existing manhole to be checked
prior to any drainage works - connection to be
covered under S106 agreement. Manhole and
connection to be re-built if necessary.

Survey Station Coordinates			
Stn	Easting	Northing	Level
GPS1	402247.58	394109.16	139.26
GPS1A	402240.33	394138.00	139.23
GPS1B	402220.98	394147.13	140.97
GPS2	402269.41	394158.21	134.61
RL01	402181.74	394137.81	144.06
RL02	402196.15	394168.93	140.90
RL03	402209.21	394191.21	133.22

DRAINAGE KEY:

PROPOSED SITE BOUNDARY	
PROPOSED SW SEWER	
PROPOSED FW SEWER	
PROPOSED COMBINED SEWER	
EXISTING COMBINED SEWER	
PROPOSED GEOCELL STORAGE	

LEVELS KEY:

PROPOSED FINISHED FLOOR LEVEL	FFL 142.00
PROPOSED RETENTION	
PROPOSED STEP IN PLOT	
PROPOSED STEP IN PLOT	

GENERAL NOTES

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:-

- DISCHARGE VIA INFILTRATION;
- DISCHARGE TO WATERCOURSE;
- 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 COLLECTED FROM ROOFS AND HARD PAVING WILL DISCHARGE VIA A NEW DRAINAGE SYSTEM CONNECTING INTO THE EXISTING PUBLIC COMBINED SEWER WITHIN SIMMONDLEY LANE VIA THE EXISTING CONNECTION, SUBJECT TO DEPTH AND CONDITION.

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 SIMMONDLEY LANE AT A RESTRICTED RATE OF 5 l/sec. DUE TO SITE LEVELS SURFACE WATER WILL BE ATTENUATED IN BOTH A OVERSIZED PIPED SYSTEM TO THE SIDE AND REAR OF PLOTS 1 & 2 AND A GEOCELL CRATE SYSTEM WITHIN THE PARKING AREA TO PLOTS 5-8. THE CONNECTION INVERT LEVEL AND CONDITION OF THE EXISTING MANHOLE AND CONNECTION PRIOR ARE TO BE IDENTIFIED AND SURVEYED PRIOR TO DETAILED DESIGN.

THE HYDROBRAKE FLOW CONTROL UNIT WILL RESTRICT ALL FLOWS FROM THE HOUSING DEVELOPMENT TO 5.0 l/sec. WITH THE OVERSIZED PIPED SYSTEM AND GEOCELL CRATE ATTENUATION PROVIDING STORAGE TO ACCOMMODATE THE 1 in 100yr + 40% CC STORM EVENT.

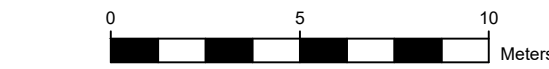
FOUL WATER DESIGN

IT IS PROPOSED THAT FOUL WATER COLLECTED FROM THE DWELLING WILL DISCHARGE VIA A NEW DRAINAGE SYSTEM CONNECTING INTO THE EXISTING PUBLIC COMBINED SEWER WITHIN SIMMONDLEY LANE VIA THE EXISTING CONNECTION, SUBJECT TO DEPTH AND CONDITION.

LEVEL ASSUMPTIONS

DUE TO THE SURVEY NOT HAVING DRAINAGE INVERT LEVELS, WE HAVE CALCULATED THESE INVERT LEVELS IN CONJUNCTION WITH THE SITE INFORMATION RECEIVED. ALL EXISTING DRAINAGE ACCEPT THE CONNECTION FROM THE SITE INTO SIMMONDLEY LANE WILL BE REMOVED OR GRUBBED UP.

THE SITE FALLS TOWARDS THE NORTHERN AND EASTERN BOUNDARIES, 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-CLEANING AND MAY NEED TO BE ENCASED IN CONCRETE WHERE COVER IS REDUCED.



PRELIMINARY DRAWING

P04	SCALE BAR ADDED.	24/08/22	MS	NG
P03	DRAINAGE STRATEGY ADDED.	28/07/22	RH	NG
P02	PLOTS 1-2 FFL's UPDATED AND SURFACE WATER DRAINAGE DETAILS ADDED.	12/07/22	RH	NG
P01	PRELIMINARY ISSUE.	06/07/22	RH	NG
Rev.	Amendment	Date	By	Chkd

Project

ZION CHAPEL
SIMMONDLEY

Client

MELLOR HOMES

Title

PRELIMINARY DRAINAGE
AND LEVELS PROPOSALS

WML Job No.	Drawn	Checked	Date	Scale
10547	RH	NG	July 2022	1:200 @ A1

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Drawing No.

Project	Originator	Volume	Level	Type	Role	Number	Rev
10547	WML	ZZ	XX	DR	C	1003	P04