Proposed Surface Water discharge from Area 2 to discharge into – Existing Nor Beck watercourse as annotated at restricted discharge rate of 22.4 l/s. Discharge rate is to be agreed with LLFA and Environment Agency. Headwall is to be installed and orientated to flow with the watercourse. Ground level and invert level to be investigated and engineer to be informed prior to level to be investigated and engineer to be informed prior to further development beyond planning. Beck to be cleared of overgrown vegetation and made good as part of the works ensuring continuous flows. Assumed GL = 78.000 Assumed Outfall IL = 77.500

Assumed Water Level = 77.200

Proposed Foul Water from Area 2 to discharge to Existing — United Utilities 300Ø Combined Sewer as annotated via new connection at unrestricted rate under a Section 106 (to be organised by the contractor). UU approved contractor to make connection.

Assumed Outfall MH CL = 84.000 Assumed Outfall Connection IL = 81.975 MH to be located and existing levels determined prior to further development.





	Vent pipe & access points TB										
Drainage Philosophy											
•	The proposals comprise the constrained buildings, Plots 2.1 and 2.2.										
•	The surface water flows are to greenfield discharge rate of 22										
•	Greenfield discharge rate base greenfield boundary (approxin excludes the public right of wa										
•	The surface water drainage de and car park are based on 1 ir climate change and SW flows with greenfield discharge rate be agreed with the LLFA and I The location of SW discharge watercourse.										
•	Surface Water Attenuation has the final connection in line with attenuation is provided in the f tank which requires an approx										
•	Surface Water run off from the area is to be treated through o tanked permeable paved park										
•	Surface Water run off from the circulation road are to be treat										

Area 2 Reference Drawings CMIQ-BGP-03-XX-DR-C-52-03101 - Imperr CMIQ-BGP-03-XX-DR-C-52-03102 - Flood I CMIQ-BGP-03-XX-DR-C-52-03130 - Draina CMIQ-BGP-03-XX-DR-C-52-03131 - Manho

							,		
	Notes 1. All lu upor	nformation pro	U U vided is for ing or const	planning pu	rpose	s only	and sh	ould not be	
	2. Prop topo	osed finished graphic data.	tioor ieve	els are indi		and	are ba	ased on e	existing
	3. All d desi	rainage outfall gn. Engineer to	levels are be informe	to be investi d of findings.	gated Curre	and o ent des	sign sho	d prior to d wn is indica	etailed tive.
	4. All S the L	urface water d ead Local Floo	ischarge rat od Authority	es and methe and Environ	ods of ment /	disch Agenc	arge are y.	e to be agre	ed with
	5. All F retur	oul water disc n of a predeve	harge rates lopment end	are to be b quiry.	e agre	eed w	ith Unite	ed Utilities t	hrough
	Proposed	SW Sewer	-						
	Proposed	FW Sewer	_						
	Existing S	SW Sewer	_						
	Existing F	W Sewer	_						
	Existing L	JU Combined S	Sewer –						
	Proposed	Attenuation Ta	ank						
	Proposed	Building				*   *			
	Tanked P Parking B	Permeable Pave Bays with perf.	ed Pipe						
	Additic	onal Notes							
	Proposed	I Impermeable	Area =	8870m² ((	0.8870	)Ha.)			
	Greenfiel	d Discharge Ra	ate =	<u>22.4 l/s</u>					
	Storage F	Required	=	<u>430m</u> °					
*NOTE: 430m <sup>3</sup> Storage required based on 1 in 100 year storm + 40% climate change and 40.0 l/s discharge rate. Tank Depth = 2.0m / Tank Base = 82.600 Tank Dimensions = 10.0m x 22.0m x 2.0m Vent pipe & access points TBC by Manufacturer.									
Drainage Philosophy									
<ul> <li>The proposals comprise the construction of 2 no. buildings, Plots 2.1 and 2.2.</li> </ul>									
<ul> <li>The surface water flows are to be restricted to a greenfield discharge rate of 22.4 l/s.</li> </ul>									
<ul> <li>Greenfield discharge rate based on developable greenfield boundary (approximately 2.3060 ha), this excludes the public right of way footpath.</li> </ul>	Issued fo	r Planning			JJH	P02	JC	xx.03.2	022
• The surface water drainage design for the new plots and car park are based on 1 in 100 year storm + 40%	FIRST D	RAFT			JJH	P01	JC	05.11.2	2021
climate change and SW flows restricted in accordance with greenfield discharge rate noted above which is to be agreed with the LLEA and Environment According		MENT Rev P = Preliminar	y T = Tender	C = Construction	BY n LCI =	REV	Onstruction	DATE n Issue	
The location of SW discharge is to Nor Beck watercourse.	In instance that it's proc	es where this drawing duct has been valida	g completes or p ted, unless in a	artly completes a period not exceedi	contract ing 90 w	, Billingh orking d	urst George ays, the clie	e & Partners will ent advises to th	consider e contrary.
• Surface Water Attenuation has been located prior to the final connection in line with good practice. The attenuation is provided in the form of an attenuation tank which requires an approximate volume of 430m <sup>3</sup> .	<u>Loc</u>								
<ul> <li>Surface Water run off from the proposed car parking area is to be treated through direct infiltration into tanked permeable paved parking bays.</li> </ul>	Billinghurst George & Partners CIVIL & STRUCTURAL ENGINEERS   BUILDING SURVEYORS								
<ul> <li>Surface Water run off from the service yard and circulation road are to be treated by a petrol interceptor.</li> </ul>	Tist Tiole Client	642 876 470 🎔 @	BGPconsulting	E consulting@bg	purt, Si pp-teessi	ide.co.ul	0 <b>n-1e</b> 	es, ເວາຮ31 .bgp-consulting.	A co.uk
<ul> <li>Proposed Foul Water is to discharge to the existing United Utilities 300Ø combined sewer located northwest of the new development at an unrestricted rate. Foul Water connection point and discharge rate</li> </ul>	Copeland Borough Council         Project       Project No.         Cleator Moor Innovation Quarter       21T2034         Drawing Title       Project No.								
has been agreed with United Utilities.	Area 2	2 - Drainage Pla	an Checked	Date	<u>s</u> i	ze	Scale	Class	Rev
Reference Drawings P-03-XX-DR-C-52-03101 - Impermeable Areas Plan	JJH	Nov 2021	JC	Nov 2021	A'	1	1:1000	52	P02
SP-03-XX-DR-C-52-03102 - Flood Exceedance Flow Route SP-03-XX-DR-C-52-03130 - Drainage Plan	Location CMIQ	<b>Originator</b> BGP	Volume 03	Level XX	Ty Di	י <b>pe</b>   ר	Role C	<b>Unique N</b> 03130	lo.
SP-03-XX-DR-C-52-03131 - Manhole Schedule	File Refer	ence 3GP-03-XX-DR	-C-52-0313	.0			_		