

temporary and permanent support and diversio works as necessary, to all existing services to th

de-watering as appropriate, in order to keep th excavation as reasonably dry as possible during th

the requirements of the adopting authority. If i

be connected at soffit to soffit with the backdrop /

pipes to be soffits level, sump level specifi separately. All Catchpits are to be built with a 300

are indicative only. Setting out and confirmation

of connections, depth etc. Minimum sizes are shown on the Burrows Graham Standard Details drawings. Sizes shown on drainage layout and/or manhole schedules take precedence over

excavation shall be backfilled with a suitable granular material to the required level Alternatively, deep drains may be cleaned and grouted with a 1:10 cementitious grout, with structures broken down to 1m below proposed finished ground level and infilled with a suitable granular material. Abandoned gullies are to b removed from site and abandoned tails are to b sealed with a 300 thick concrete plug at a depth

over drainage trenches, the Contractor shall construct an impermeable barrier to preven groundwater infiltrating into the drainage trench.

SCALE BAR 1:50

			THIS D	RAWING IS TH	E COPYRIC	GHT OF BURROWS GRAH		TED.		
		or other drainage systems require modification,		SAFETY	, HEA	LTH AND EN	VIRC	DNMEN ⁻	TAL	
		diversion or abandoning (U.O.N on the drawings) Unless otherwise agreed, all outfalls to ponds and		INFORMATION						
ce Do		watercourses to be proprietary PCC units. Where applicable, headwall details are to be approved by	IN ADD	DITION TO THE H		KS NORMALLY ASSOCIATED		TYPES OF WORK	DETAILED ON	
ns		the relevant authority (i.e. Internal Drainage Board / Lead Local Flood Authority / Environment Agency / Highway Authority)		RUCTION						
he	20.	All manholes less than 1.5m deep are considered as none man entry and shall be maintained from								
on, on he	21.	ground level. Upon completion of the works, the Contractor shall clean all drainage by jetting, removing all debris								
ce		from site and the system is to be CCTV surveyed. No debris shall be permitted to enter the existing	MAINT	ENANCE						
nd	22.	drainage system. No deep rooting trees/vegetation should be								
ne	23.	planted within 5.0m of any drainage works. The storage and installation of all proprietary								
all		drainage items used are to be strictly in accordance with the manufacturers instructions /								
oly nt	24.	requirements. Any works within the public highway to be reinstated to highway authority requirements. All	DEMO	LITION						
52, 1,		relevant permits/licences must be sought by the contractor prior to the works being undertaken.								
ng ith		Penstocks, where indicated, shall be electronically operated complete with power supply and								
in		connection (refer to service engineers drawings for cable and ducting etc.) Statutory Undertakers information, where shown,								
fit or		is indicative only based on supplied records. The contractor shall verify the depth position and				PRKS WILL BE CARRIED O PROPRIATE, TO AN APPR				
all 5 /		nature of the services as necessary in order to construct the works.	Kov							
oe, ed		Drainage channels are to be ACO Qmax in service yards and ACO Multidrain in car parks, or similar approved. Channels are to be sized by the supplier	Key	:						
00		and approved by the Engineer in writing prior to ordering. Drainage channels to be installed to		_	Propos	ed Surface Water				
ve to er		manufacturers' requirements. Design of channels shall be based on a 1 in 30 year storm return		22				- al		
nal		period, 15 minute duration. Outlet units on channel drains to include silt traps. All RWP, gully and channel connections shall be	-		-	g Surface Water to b	e reuse	ea		
he		Ø150 U.O.N. Waste/soil stack connections shall be Ø150 U.O.N. Waste/soil stack connections shall be Ø100mm. U.O.N and shall have internal above			Propos	ed Foul Water				
nd s″)		ground rodding eyes or large access fittings in accordance with Building Regulations.			Existing	g Foul Water to be r	eused			
of of nt		All WPC's, SRWP's and RWP's are shown indicatively. Locations shall be confirmed by		====1						
er	30.	others. All sprinkler drain, gully locations and flow rates to be confirmed by the sprinkler Contractor. Potential			Existing	g manhole chamber	size			
re ils		local storage manholes for sprinkler discharge are to be confirmed following definition of system	L							
or er		requirements. It is assumed that future sprinkler installation points will be located close to foul								
he ist	31.	water drainage runs. Concrete protection is to be provided, with expansion joints installed at all pipe joint, on all								
ed		pipes as follows: i) Within vehicle accessible areas if the cover is less								
ed he ole		than 1.2m. A concrete slab is required where the cover is less than 0.9m.								
el. nd		ii) Within landscape and pedestrian accessible only areas where the cover is less than 0.6m a cover slab or surround is required.								
th ed		iii)Where required due to the proximity of foundations and other loadings, omitting								
be be		expansion joints. iv) As required by the manufacturer for flexible								
of	32.	pipe systems. Below ground drainage connections to be provided to all canopy downpipes								
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