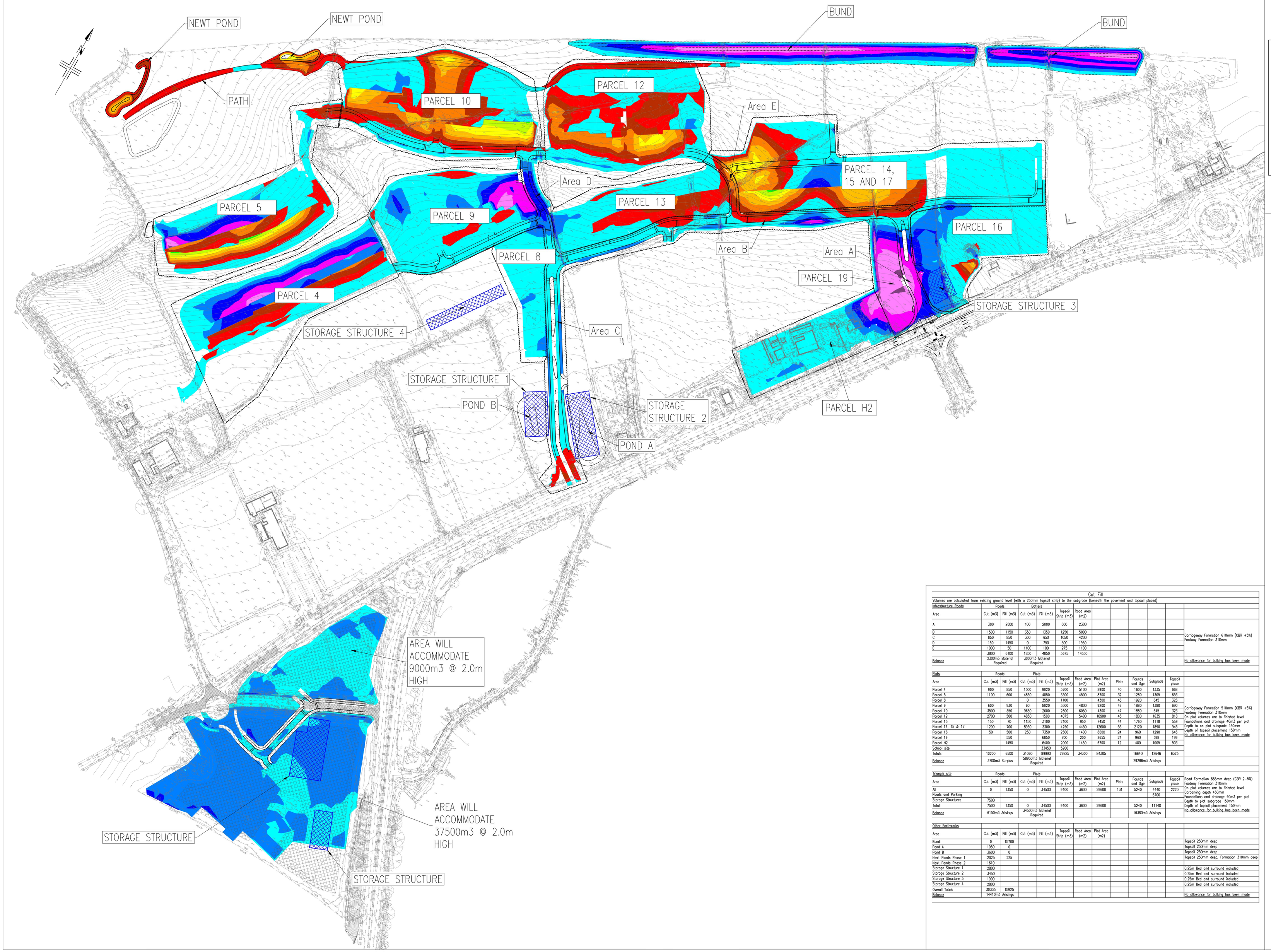

Cut Fill

Volumes are calculated from existing ground level (with a 250mm topsoil strip) to the subgrade (beneath the pavement and topsoil placed)

Infrastructure Roads	Roads		Batters								
Area	Cut (m3)	Fill (m3)	Cut (m3)	Fill (m3)	Topsoil Strip (m3)	Road Area (m2)					
A	300	2600	100	2000	600	2300					
B	1500	1150	350	1350	1250	5000					
C	850	850	300	650	1050	4200					Carriageway Formation 610mm (CBR +5%)
D	150	1450	0	750	500	1950					Footway Formation 310mm
E	1000	50	1100	100	275	1100					
	3800	6100	1850	4850	3675	14550					
Balance	2300m3 Material Required		3000m3 Material Required								No allowance for bulking has been made

Plots	Roads		Plots								
Area	Cut (m3)	Fill (m3)	Cut (m3)	Fill (m3)	Topsoil Strip (m3)	Road Area (m2)	Plot Area (m2)	Plots	Fourcs and Dge	Subgrade	Topsoil place	
Parcel 4	900	850	1300	9220	3700	5100	8800	40	1600	1335	668	
Parcel 5	1100	600	4850	4850	3300	4500	8700	32	1280	1305	653	
Parcel 8			0	3550	1100		4300	48	1920	645	323	
Parcel 9	600	930	60	8020	3500	4800	9200	47	1880	1380	690	Carriageway Formation 510mm (CBR +5%)
Parcel 10	3500	350	9650	2600	2600	6050	4300	47	1880	545	323	Footway Formation 310mm
Parcel 12	2700	500	4850	1500	4075	5400	10900	45	1800	1635	818	On plot volumes are to finished level
Parcel 13	150	70	1150	3100	2100	950	7450	44	1760	1118	559	Foundations and drainage 40m3 per plot
Parcel 14, 15 & 17	1200	700	8950	3300	4250	4450	12650	53	2120	1890	945	Depth to on plot subgrade 150mm
Parcel 16	50	500	250	7350	2500	1400	8500	24	960	1290	645	Depth of topsoil placement 150mm
Parcel 19		550		6850	700	200	2655	24	960	398	199	No allowance for bulking has been made
Parcel H2		1450		6400	2000	1450	6730	12	480	1005	503	
School site				33450	5200							
Totals	10200	6500	31060	89990	29825	34300	84305		16640	12546	6323	
Balance	3700m3 Surplus		58939m3 Material Required						29286m3 Arisings			

Triangle site	Roads		Plots								
Area	Cut (m3)	Fill (m3)	Cut (m3)	Fill (m3)	Topsoil Strip (m3)	Road Area (m2)	Plot Area (m2)	Plots	Fourcs and Dge	Subgrade	Topsoil place	
A8	0	1350	0	34500	9100	3600	29600	131	5240	4440	2220	Road Formation 885mm deep (CBR 2-5%)
Roads and Parking										6700		Footway Formation 310mm
Storage Structures	7500											On plot volumes are to finished level
Total	7500	1350	0	34500	9100	3600	29600		5240	11140		Carparking depth 450mm
Balance	6150m3 Arisings		34500m3 Material Required						16380m3 Arisings			Foundations and drainage 40m3 per plot
												Depth to plot subgrade 150mm
												Depth of topsoil placement 150mm
												No allowance for bulking has been made

Other Earthworks												
Area	Cut (m3)	Fill (m3)	Cut (m3)	Fill (m3)	Topsoil Strip (m3)	Road Area (m2)	Plot Area (m2)					
Bund	0	15700										Topsoil 250mm deep
Pond A	1950	0										Topsoil 250mm deep
Pond B	3600	0										Topsoil 250mm deep
Newt Ponds Phase 1	2025	225										Topsoil 250mm deep, Formation 310mm deep
Newt Ponds Phase 2	1610											
Storage Structure 1	2800											0.25m Bed and surround included
Storage Structure 2	3450											0.25m Bed and surround included
Storage Structure 3	1900											0.25m Bed and surround included
Storage Structure 4	2800											0.25m Bed and surround included
Overall Totals	30335	15925										
Balance	14410m3 Arisings											No allowance for bulking has been made

E 05.11.17 Totals corrected
D 01.12.17 School volumes added
C 01.12.17 School volumes removed, parking court and other roads added to volumes on triangle
B 10.11.17 Parcel isopachytes and volumes added
A 16.12.16 Road quantities broken down to separate areas

Revisions

Project: Land at Cribbs Causeway

Client: TaylorWimpey deeleyfreed

Drawing: Infrastructure Earthworks

Scale: 1:1250@ A0 Date: August 2016 Drawn by: acm

Drawing No: 415-INF-110 Rev: E

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