

Hempstead Meadows - Additional Car Park - Comparison Of Options

17th June 2015

Option	Surfacing System	Surfacing Cost	Storage	Storage Cost	Surfacing + Storage Cost	Fencing / Planting / Lighting	Total Cost	Comments
1	Updated original design (70 mm)	-	Included below surfacing	-	£ 484,067	£ 66,400	£ 550,467	Grass finish - similar to other grass seeded options
2	Sudpave 40 - gravel finish	-	Included below surfacing	-	£ 456,117	£ 66,400	£ 522,517	Gravel finish is unattractive and may be unacceptable to planners - not recommended
3	Sudpave 40 - grass finish	-	Included below surfacing	-	£ 469,081	£ 66,400	£ 535,481	Much more aesthetically pleasing than a gravel finish. Likely to sit better with the planners for this reason.
4	Sudpave 40 - pre-turfed	-	Included below surfacing	-	£ 524,783	£ 66,400	£ 591,183	Not suitable for heavy traffic. Presents a number of advantages over the seeded options. Most notably, the finish will be much better and the car park can be occupied a number of months earlier. Recommended option if light vehicles only
5	80 mm Truckcell	-	Included below surfacing	-	£ 534,883	£ 66,400	£ 601,283	Heavy duty option for if heavy traffic is likely. Grass finish (seeded). Heavy vehicular use is not anticipated, so not recommended
6	Bodpave 85 - black (gravel)	-	Included below surfacing	-	£ 471,945	£ 66,400	£ 538,345	Gravel finish is unattractive and may be unacceptable to planners - not recommended
7	Bodpave 85 - black (grass - seeded)	-	Included below surfacing	-	£ 484,910	£ 66,400	£ 551,310	Grass finish - similar to other grass seeded options
8	Gridforce 40 (grass - seeded)	-	Included below surfacing	-	£ 531,491	£ 66,400	£ 597,891	Grass finish - similar to other grass seeded options
9	Ritepave (40 mm units) (grass - seeded)	-	Included below surfacing	-	£ 484,910	£ 66,400	£ 551,310	Grass finish - similar to other grass seeded options
10	MOT Type 1 (graded stone - compacted) + swale / pond	£ 287,822	Swale / pond	£ 60,000	£ 347,822	£ 70,000	£ 417,822	An MOT Type 1 surface will degrade relatively quickly. Furthermore it will be unappealing aesthetically, and for that reason is unlikely to sit well with planners. A pond will use valuable space and reduce the size of the car park. For these reasons, this option is not recommended .
11	MOT Type 1 (graded stone - compacted) + cellular storage	£ 291,422	Geocellular storage units	£ 90,000	£ 381,422	£ 66,400	£ 447,822	An MOT Type 1 surface will degrade relatively quickly. Furthermore it will be unappealing aesthetically, and for that reason is unlikely to sit well with planners. The pond is likely to occupy an unacceptably large area of land. For these reasons, this option is not recommended .
12	Road planings + swale/pond	£ 284,204	Swale / pond	£ 60,000	£ 344,204	£ 70,000	£ 414,204	Using road planings is considered risky due to the variability in the quality of batches. There is a reasonable risk that the end result could be sub-standard, having still spent a significant sum on the project. A pond will use valuable space and reduce the size of the car park. Quality control is very hard to achieve. For these reasons, this option is not recommended .
12	Road planings+ cellular storage	£ 287,804	Geocellular storage units	£ 90,000	£ 377,804	£ 66,400	£ 444,204	Using road planings is considered risky due to the variability in the quality of batches. There is a reasonable risk that the end result could be sub-standard, having still spent a significant sum on the project. Quality control is very hard to achieve. For this reason, this option is not recommended .

Notes

In order to meet current basic SuDS regulations, storage / attenuation and water quality improvements are required. This can be provided by either storage within a granular sub-base (all the plastic grid options) or, in the case of the impermeable surfacings (MOT Type 1 / road planings), by providing below ground plastic crate storage, or swales / a pond.

All the surfacings apart from MOT Type 1 and road planings comprise plastic geocellular grid units finished with either gravel or grass

The above budget costs were prepared by Talus Construction (apart from the storage costs)

The above costs do not take into account annual maintenance costs which will vary depending on the option

The storage costs for options 10 to 13 inc. are very much ball park figures

If a decision is made to proceed with one of the above options, then it is recommended that more detailed costings are obtained