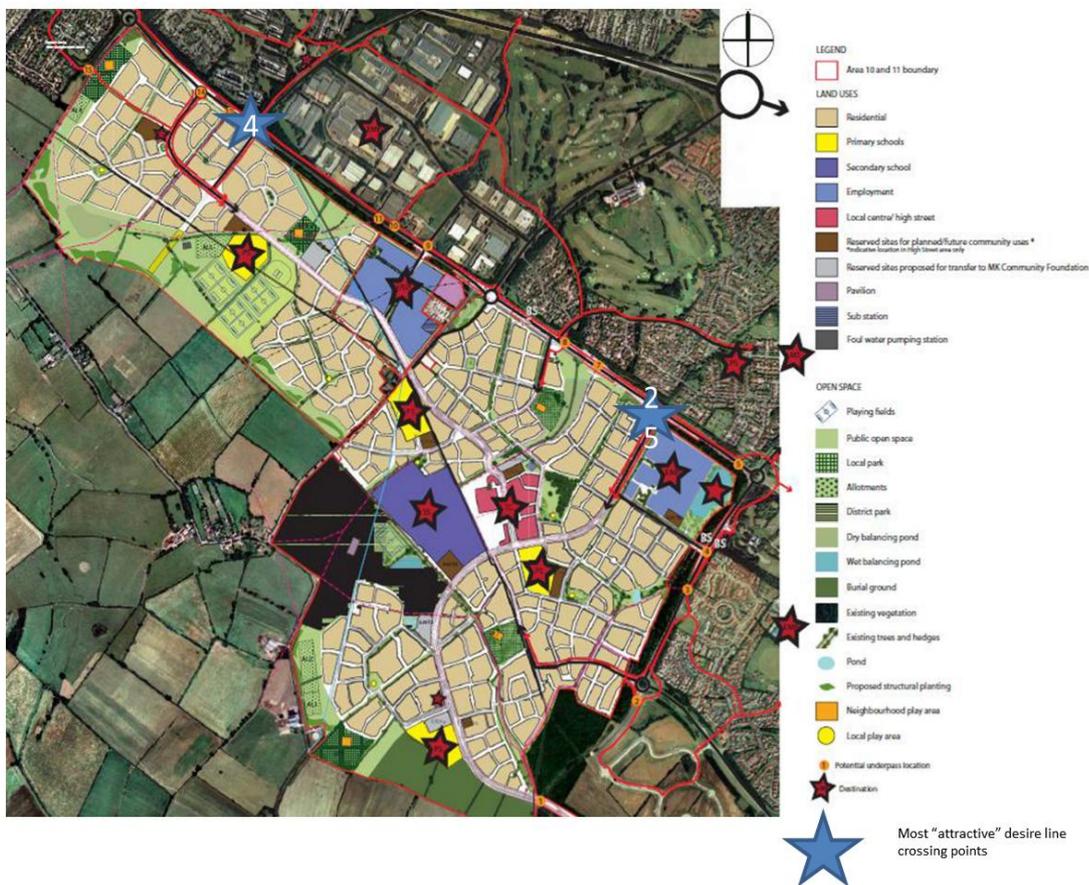


Underpass and footbridge crossings location, existing services and initial plans

Primary Crossing Points

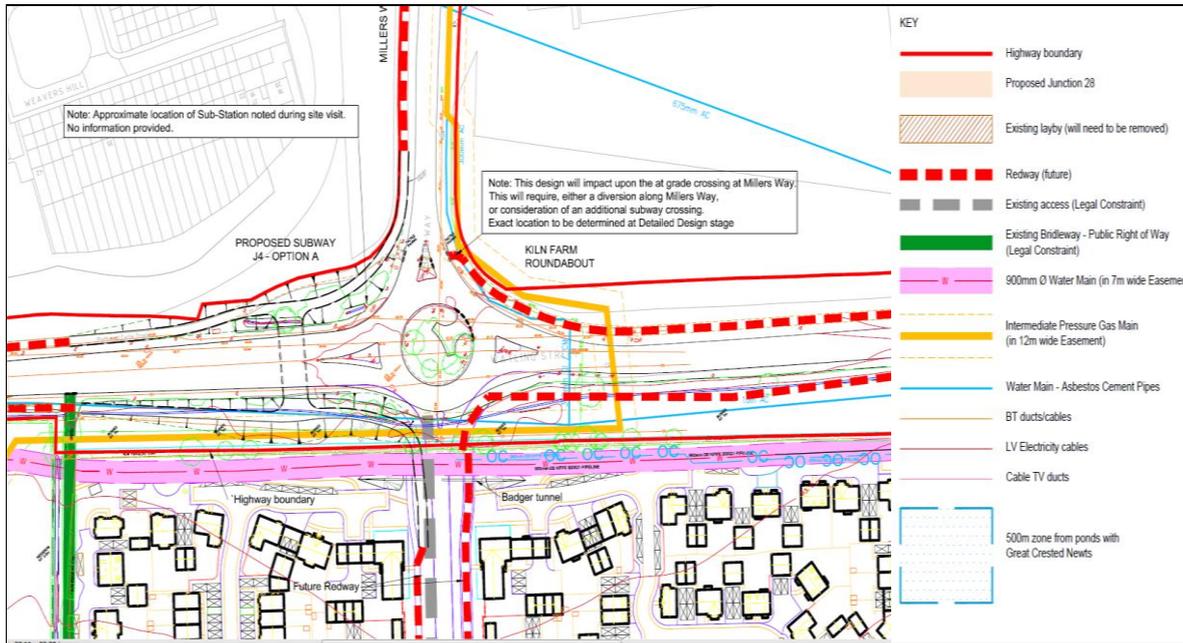
The MKC Urban Design and Landscape team (UDLA) has identified the main pedestrian desire lines across the V4. These have been calculated in relation to likely destinations such as healthcare, schools and shopping. This work also identified other potential desire lines leading to alternative crossing points however J4 and J25 are considered to provide the focus for links between the WEA and existing areas. Therefore, these are considered to be the primary crossing points requiring suitable pedestrian crossing solutions. These shown as blue stars on Map 1, below.

Map 1 - V4 Desire Lines



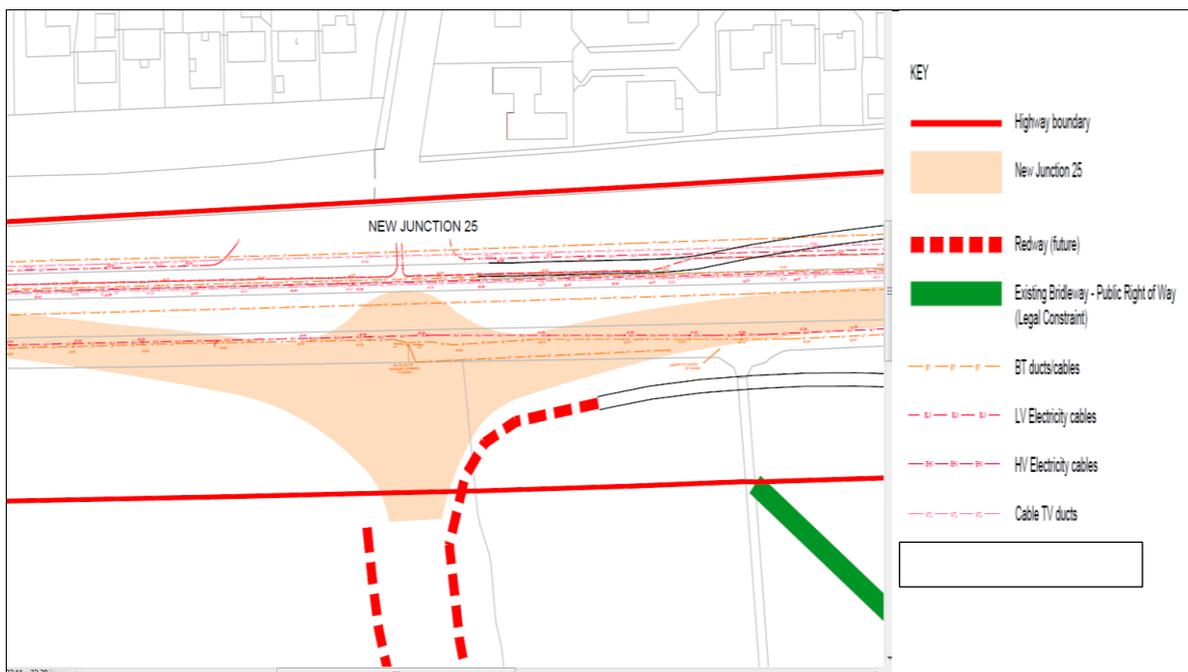
Underpasses

Existing Buried Services



Buried services J4

- An intermediate pressure gas main runs across the pedestrian access to the south of the underpass site.
- An asbestos cement water main also runs across the pedestrian access
- A 900m water main with a 7m easement would also be affected by pedestrian access at that point.
- Various other cable TV and Fibre Optic cables also run under the V4 at this point as does an electrical supply cable



Buried services J25

Fibre optic, cable TV and electricity cables are known to run past J25. The lack of any identified large scale services such as water and gas indicates that the construction of an underpass at this location is feasible. However, further detailed ground surveys will be required to establish whether any unmapped buried services are located in this area.

Footbridges

Provision of Footbridges

Only brief outline diagrams of potential footbridge locations have been provided to date (2013 URS report). The URS report forecast the cost of providing footbridges in 2013 at between £425,000 and £472,000 per bridge. This forecast has been recalculated using current 2016 prices.

MKC's UDLA has now assessed the constraints on provision of footbridges. They have identified that at least 250 sq. m of additional land will need to be procured to supplement the available highways land at each site (500 sq. m) to permit the footbridges to be constructed. The cost of that land is likely to be significant and would add significant cost to the project to purchase existing for development land.

Each footbridge will need to make provision for cycle and other pedestrian traffic. This requires additional perimeter guards at least 1.4m in height. This is in addition to the 6m clearance required between the footbridge and roadway. The full height of the footbridges would be around 7.5m which would affect the privacy of adjacent housing and therefore would be likely to be unpopular with local residents. A process of consultation with residents on proposals for footbridge crossings will be necessary to allow design priorities to be assessed fully.



Footbridge footprint and land requirement J4

