Hollington Primary School

Retro-fit SuDS

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key

- Primary flow inputs.
- Site flows.
- Primary SuDS flow route.
- SuDS exceedance route.
- Swale.
- Channel.
- Erosion cascade.
- Pavement flow deflector.
- Water storage areas.
- Raingarden basin.
- Water storage seating/wall.
- Raised berm.
- Piped flow routes.
- Flow control points.
- Flow control weir.
- Bridge over swale.
- Reprofiled path.
- Outfall to sewer.
- Existing sewer system.

Flow Route 1 : Flood flow from housing area

Flow Route 2 : Flood flow from housing

re-profiled pavement ① | swale ② | berm | swale | bridge ⑤ | swale ⑥ | weir ④ | hard-play | car park ⑦ | playground basin storage ③ | hard-play | water storage seating wall | School Building | flow deflector ⑧ | Raingardens ⑨ | ⑩ | flow deflector ⑧ | ⑪ | channel ⑫ | hard-play | cascade ⑬ | ⑭ storage swale | ⑮ | berm | hard-play | ⑯ | Hollington Lane

1. Re-profiled pavement throws water toward swale
2. Berm contains swale carrying flow toward storage area
3. Playground storage area created using sleeper seating wall and weir
4,5&6. Slot weir controls flow out of storage area and directs it to a shallow bridge crossing and into a swale
6&7. Flow travels under fence and across car park before entering existing gully
16. Exceedance route runs along access drive to Hollington Lane
8. Flow deflector in path diverts flow into Raingarden basins
9. Planted Raingarden basins provide storage and take run-off from roof
10&11. Grated outlet leads, via pipe, to outlet in hard play area retaining wall
12&13. Brick channel carries flow along edge of hard play area, down a cascade and into the storage swale
14. Storage swale carries and stores water before discharge
15. Outlet connected to a flow control chamber allows a controlled flow of water into the combined sewer
16. Excess flow is directed down path to Hollington Lane