

PROJECT :-**CYBERJAYA FLAGSHIP ZONE DEVELOPMENT – PHASE I & II MAIN DRAINAGE SYSTEM****LOCATION :-**

Multi Media Super Corridor, Klang Valley

CLIENT :-

Setia Haruman Sdn Bhd

PROJECT COST :-

RM 257 Million

COMPLETION DATE :-

CURRENT

Job Description :-

The Project involves the conversion of 2,892 ha of agriculture and swamplands into a township catering for high technology commercial, industrial and residential landuse applications. The site which borders Putrajaya is made up of hills and steep grounds in the upper catchment, rolling plains in the mid reaches and swamplands in the lower reaches. Large portions of the swamps are peat up to 6-meter depth or soft material that require special treatment for development. Clients require that development features an eco friendly design.

The Detailed Works include :-

- Network of closed & open drains, with manholes provided in the latter @ 100-meter c/c
- Flood attenuation ponds at selected locations. Landscaped suitably for use as parks
- Drainage reserves to double up for recreational use
- Landfills to raise platform levels at selected locations to enable gravity operation of drainage system
- Landscaping at attenuation ponds and drainage reserves for a green design

**Road culverts crossing Road D****SERVICES PROVIDED :-**

- Geotechnical Investigation & Survey
- Drainage conceptualization
- Hydrology (Rational Formula for flood flow analysis)
- Hydraulics (EXTRAN-XP for flood profile analysis)
- Drainage masterplan
- Detailed Design of drains, attenuation ponds and associated structures
- Economic analysis
- Tender documentation, engineer's cost estimate
- Construction Supervision

**Outlet channel from road culverts****Manhole construction at main drain**