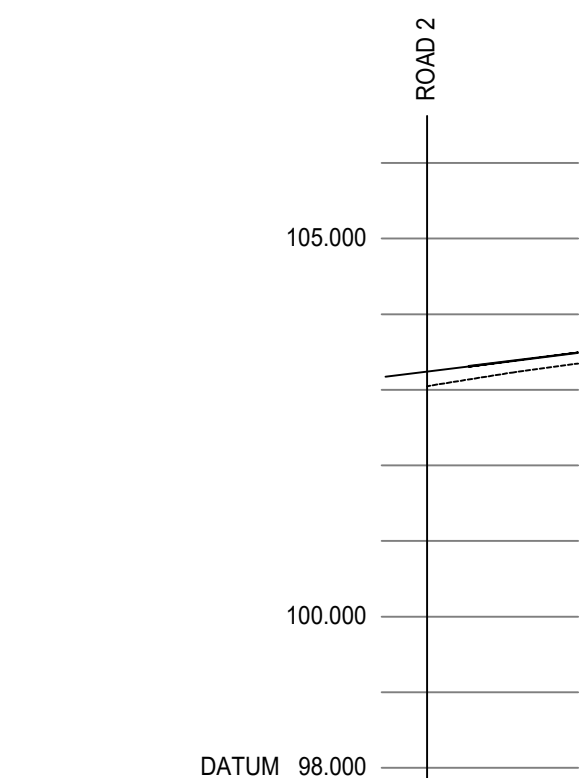
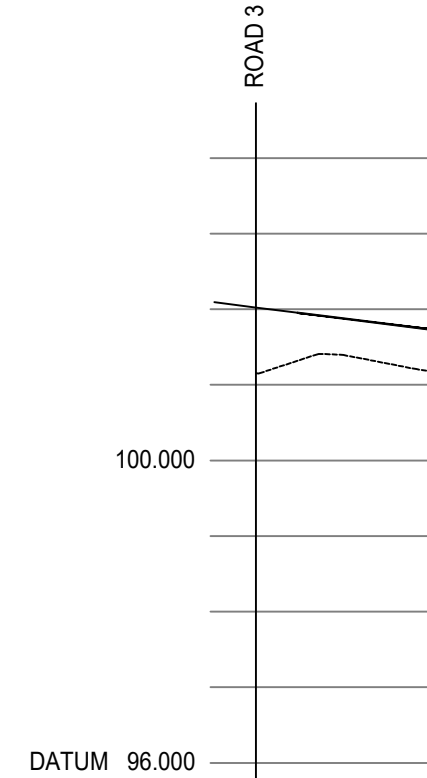
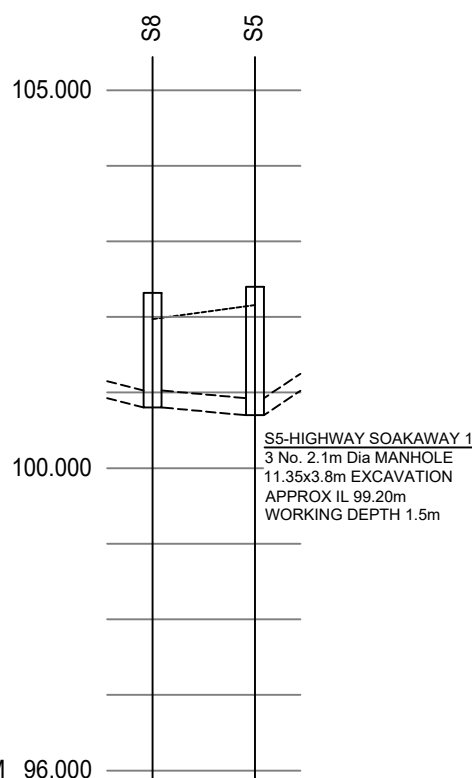




ROAD 2A			
CHAINAGE	-2.750	0.000	7.250
EXISTING GROUND LEVEL	103.048	103.136	103.347
ALIGNMENT LEVEL		103.309	103.491
VERTICAL ALIGNMENT		G= 2.500% 1: 40.0	
HORIZONTAL ALIGNMENT			



ROAD 3A			
CHAINAGE		-2.750 -0.000	8.850
EXISTING GROUND LEVEL		101.152 101.318	101.178
ALIGNMENT LEVEL		101.954	101.733
VERTICAL ALIGNMENT			G= -2.500% 1: -40.0
HORIZONTAL ALIGNMENT			



MH's S8 & S5			
GROUND LEVEL		101.973	
STORMWATER COVER LEVEL		102.317	102.400
STORMWATER INVERT		100.803	100.700
STORMWATER DETAILS		Pipe 2' 002 Dia 225 Circular CLAY 1 in 66	
STORMWATER LENGTHS		6.771	
FOULWATER COVER LEVEL			
FOULWATER INVERT			
FOULWATER DETAILS			
FOULWATER LENGTHS			

- | RISK ASSESSMENT
SIGNIFICANT RISKS THAT CANNOT BE DESIGNED OUT | | |
|--|-----------------------|---|
| DESCRIPTORS | LEVEL OF RISK
RANK | SUGGESTED ACTION |
| DIP | HIGH | ENSURE ALL EXCAVATIONS HAVE ADEQUATE TRENCH SUPPORTS |
| DEEP EXCAVATIONS ASSOCIATED WITH NEW DRAINAGE WORKS | HIGH | ENSURE ALL EXCAVATIONS HAVE ADEQUATE TRENCH SUPPORTS |
| HANDLING LARGE DIAMETER MANHOLE RINGS AND CIRCULAR PIPES | HIGH | USE CORRECT LIFTING EQUIPMENT AND ENSURE OPERATIVES WEAR APPROPRIATE PROTECTIVE CLOTHING/HARD HATS/CORRECT PPE |
| CONTACT WITH SEWAGE | MED | OPERATIVES TO USE CORRECT BREATHING EQUIPMENT/CORRECT PPE |
| NOISE | MED | OPERATIVES TO USE CORRECT EAR PROTECTION/CORRECT PPE |
| DRAINAGE EXCAVATIONS ADJACENT EXISTING BOUNDARY STRUCTURES | HIGH | ENSURE CORRECT SUPPORTS ARE PROVIDED TO TRENCHES AND BUILDINGS WHERE REQUIRED |
| DRAINAGE EXCAVATION IN PUBLIC HIGHWAYS | HIGH | ENSURE CORRECT USE OF TRENCH SUPPORTS IN EXCAVATION AND SEWAGE BARRIERS FOR THE PUBLIC |
| MAINTAIN ACCESS TO ADJACENT PROPERTIES AND OCCUPIERS | HIGH | ENSURE WORKS ARE PROTECTED WITH BARRIERS AND SIGNS TO GUIDE THE WAY AROUND THE WORKS |
| DRAINAGE EXCAVATIONS NEAR TO EXISTING SERVICES | HIGH | ENSURE WORKS ARE PROTECTED WITH BARRIERS AND SIGNS TO GUIDE THE WAY AROUND THE WORKS |
| WORKING IN CONFINED SPACES, WORKING IN DRAINS AND MANHOLES | HIGH | CONFINED SPACES WORKING TRAINED PERSONNEL ONLY, ONLY TO CARRY OUT WORKS UNDER A PERMIT TO WORK SCHEME AND DIRECTED BY CONTRACTOR, GAS TESTING TO TAKE PLACE BEFORE ALL ENTRIES INTO CONFINED SPACES |
| WORKING IN HIGHWAYS / RISKS FROM VEHICLE AND PLANT | HIGH | ALL WORKS TO BE SIGNED AND FENCED FROM NORMAL VEHICULAR TRAFFIC, ALL WORKS TO BE SIGNED AND FENCED FROM ALL VEHICLES, PLANT TO HAVE VISUAL AND AUDIBLE WARNING SYSTEMS |
| ROAD AND DRAINAGE CONSTRUCTION | HIGH | ALL EXCAVATIONS TO BE ADEQUATELY FENCED OFF AND SUPPORTED DURING CONSTRUCTION, ALL OPERATIVES TO BE TRAINED IN CORRECT METHODS OF LIFTING AND WORK IN ACCORDANCE WITH LOLER RISKS |
- IT IS ASSUMED THAT WORKS ASSOCIATED WITH THIS DESIGN WILL BE UNDERTAKEN BY A PERSON OR PERSONS WHO ARE COMPETENT AND HAVE THE REQUIRED LEVEL OF EXPERIENCE AND EXPERTISE

