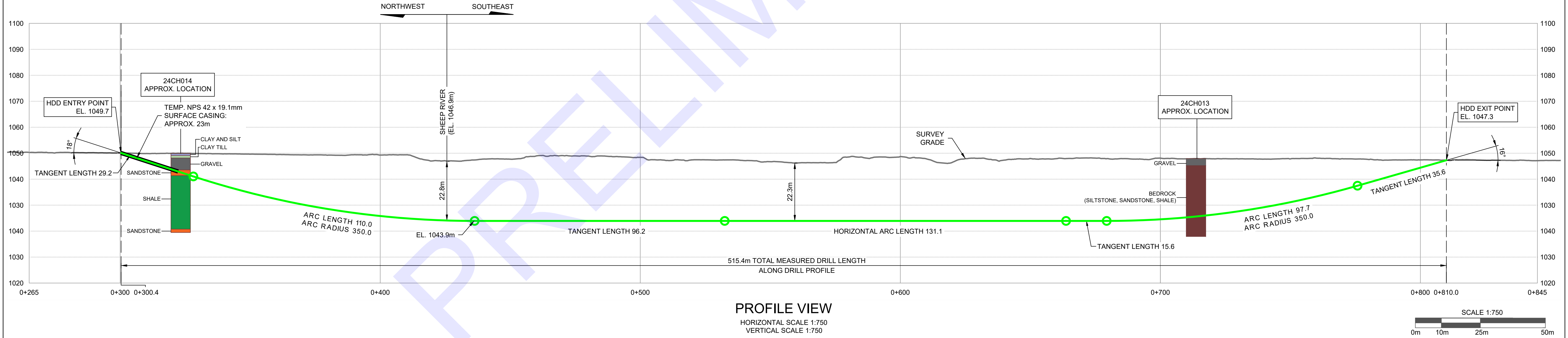
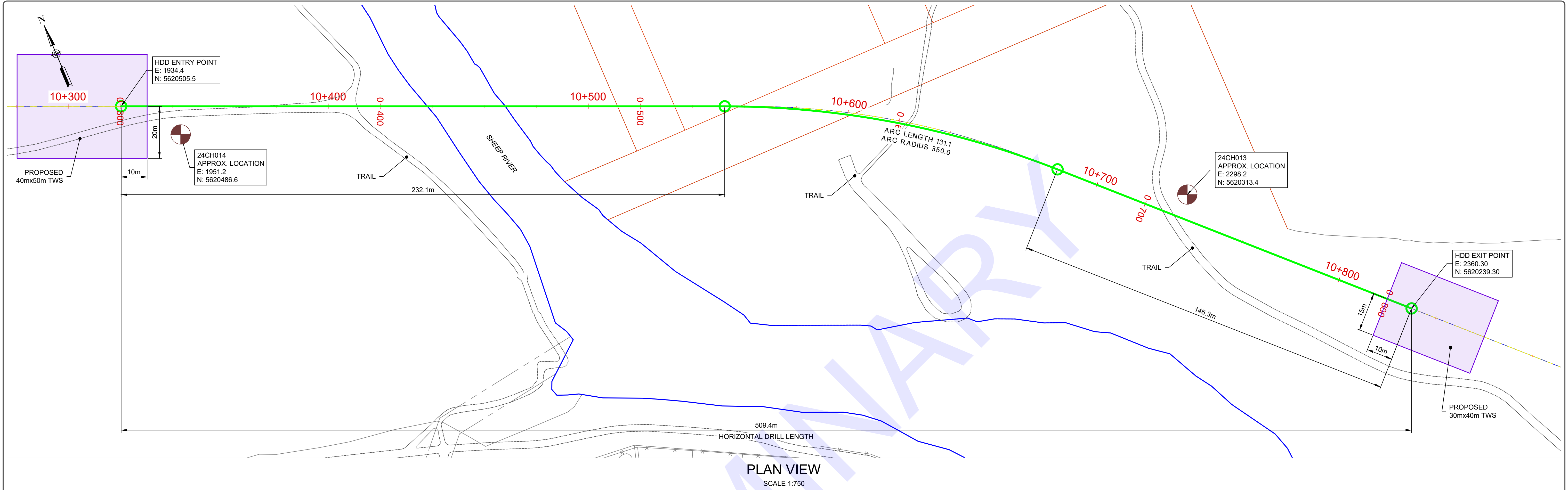




| 18" HDPE DESIGN PARAMETERS                 |         |
|--------------------------------------------|---------|
| THEORETICAL PULL FORCE WITH BUOYANCY (lbs) | 47,400  |
| MAX. ALLOWABLE PULL FORCE (lbs)            | 106,063 |

| 18" HDPE WASTE VOLUME AND SOURCE WATER ASSESSMENT |                       |
|---------------------------------------------------|-----------------------|
| APPROX. TOTAL WASTE PROFILE (m³)                  | - (-% SOLIDS CONTENT) |
| SOURCE WATER (m³)                                 | -                     |

| 18" HDPE CROSSING PIPE SPECIFICATION |       |
|--------------------------------------|-------|
| OUTSIDE DIAMETER (OD)(mm)            | 457.2 |
| INSIDE DIAMETER (ID)(mm)             | 355.6 |
| WALL THICKNESS (WT)(mm)              | 50.8  |
| DR                                   | 9     |
| MATERIAL                             | HDPE  |
| SPECIFICATIONS                       | IPS   |
| COATING                              | -     |
| MEDIUM CARRIED                       | WATER |

| 18" HDPE DRILLING SPECIFICATIONS  |           |
|-----------------------------------|-----------|
| DRILLING INSTALLATION METHOD      | MUD MOTOR |
| MIN. FINAL BOREHOLE DIAMETER (mm) | 762 (30") |
| RIG SIZE (lbs)                    | 220,000   |
| 30m RADIUS (m)                    | 200       |
| MAX. DOGLEG (DEG/30m)             | 8.59      |