NOTES:
1. Terraforce precast concrete retaining blocks to be used. Type of block to be specified.
2. Terraforce blocks to be placed with off-set as shown and filled with well tamped approved soil or crushed gravel.
3. Backfill soil (Infill / Retained) to be granular, well drained and compacted in layers not exceeding 150mm at optimum moisture content.
4. Geosynthetic drainage filter material to be installed along cut-face, draining towards perforated drainage pipe.
5. Geosynthetic reinforcement sheets to be clamped between blocks (to be visible at wall face) and be pulled taut prior to placement of backfill material.
6. Geosynthetic reinforcement sheets to be placed and spaced according to Engineer's design (Maxiforce design software).
7. Stormwater cut-off drain to be constructed behind and along crest of wall, to prevent water to drain onto face of wall.
8. Foundation excavations to be inspected by a local geotechnical engineer to confirm design and size.
9. Existing services in front of proposed wall, running parallel to the proposed foundation, have to be re-excavated and the trench be backfilled with 8% cement stabilised fill compacted to 95% mod AASHTO at optimum moisture content.
10. Excavation of trenches in front of wall not allowed once the retaining wall has been constructed.
11. Maximum superimposed load, surcharge, on retained soil as indicated in the design table.
12. Concrete keys (where required) to be class I mortar or 15 MPa concrete. Alternatively keys may be replaced by filling blocks with 10mm crushed stone.
14. Terraforce retaining wall design software, Maxiforce, may be downloaded from www.maxiforces.com or use the basic Terraforce design tables from the 2009 Terraforce manual or from www.terraforce.com

SUBMISSION SHEET: TERRAFORCE GEOFORCE REINFORCED RETAINING WALL DETAILS

<table>
<thead>
<tr>
<th>FOUNDATION SOIL</th>
<th>VALUE</th>
<th>BLOCKS</th>
<th>VALUE</th>
<th>WALL</th>
<th>VALUE</th>
<th>FOUNDATION</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT FRICTION ANGLE</td>
<td>BLOCK TYPE</td>
<td>SOIL UNIT WEIGHT (kN/m²)</td>
<td>OFF-SET</td>
<td>x</td>
<td>HEIGHT (H)</td>
<td>aborted TOTAL WIDTH</td>
<td>CEMENT (MPa)</td>
</tr>
<tr>
<td>RETAINED SOIL (Native/In situ soils)</td>
<td>WIDTH</td>
<td>(w)</td>
<td>TILT ANGLE</td>
<td>(b)</td>
<td>BACK SLOPE</td>
<td>(l)</td>
<td>TOTAL TOE WIDTH</td>
</tr>
<tr>
<td>INT FRICTION ANGLE</td>
<td>HEIGHT</td>
<td>(h)</td>
<td>HEIGHT WITH KEYS (Hw)</td>
<td>(h)</td>
<td>KEYLESS HEIGH (Hk)</td>
<td>(k)</td>
<td>KICKER HEIGHT</td>
</tr>
<tr>
<td>SOIL UNIT WEIGHT (kN/m²)</td>
<td>KEYS PER m²</td>
<td>(k)</td>
<td>SURCHARGE (kN/m²)</td>
<td>(m)</td>
<td>92 HEEL HEIGHT</td>
<td>(i)</td>
<td>FEET TOE HEIGHT</td>
</tr>
<tr>
<td>INFILL SOIL (Geo reinforced soil)</td>
<td>DRAINAGE LAYER WIDTH</td>
<td>(c)</td>
<td>GEOTEXTILE STRENGTH</td>
<td>(c)</td>
<td>FOUNDATION WIDTH</td>
<td>(d)</td>
<td>EXCAVATION</td>
</tr>
<tr>
<td>INT FRICTION ANGLE</td>
<td>SOIL UNIT WEIGHT (kN/m²)</td>
<td>REINFORCED FILL WIDTH</td>
<td>(c)</td>
<td>GEOTEXTILE NAME</td>
<td>(d)</td>
<td>FOUNDATION DEPTH</td>
<td>(e)</td>
</tr>
</tbody>
</table>

TITLE: TERRAFORCE RETAINING WALL DESIGN DETAILS

CLIENT:

PROJECT:

DESIGNED BY:

DATE: