CONSTRUCTION NOTES:
1. Excavate for concrete apron and toewall in undisturbed soil. Side slopes above the top of concrete shall be 1:1 or flatter.
2. Set aluminum structure to grade and place reinforcing bars before placing concrete for apron and toewall. Wrap reinforcing bars with three layers of electrical tape or equivalent where they pass through the aluminum sheets (see Detail A).
3. All steel placed in concrete shall have a minimum concrete cover over reinforcement of 2 inches, except when the concrete is placed on or against the earth, then the minimum concrete cover shall be 3 inches.
4. Place drain fill and geotextile.
5. Backfill around structure with moist soil. Place backfill in shallow layers and tamp well. Remove dry soil from sides of excavation as backfill is placed so that moist soil is tamped against moist soil. Keep backfill approximately level around all parts of the structure.
6. Place riprap and geotextile and complete shaping and grading.
7. Seed all disturbed areas, as required in standard for critical area planting.

NOTES:
1. Concrete shall have a minimum compressive strength at 28 days equal to 3000 PSI (6 bag mix).
2. Aluminum sheets shall be structural plate (2.5 x 9.0” corrugations) 0.100” thickness.
3. Apply asphaltic mastic between aluminum sheets before bolting together.
4. Drain fill shall consist of sand, gravel, or concrete aggregate mixture with maximum size of 3” and not more than 5% passing a No. 200 sieve. Qualifying IDOT gradations for drainfill include: C41, C43, C45, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59.
5. Riprap may consist of well-graded rock, maximum size 6” or 8” concrete block set with core openings up and filled with soil.
6. Lap geotextile a minimum of 18 inches.
7. Geotextile (non-woven, needle punched) min. criteria: Abrasion Tensile strength (lb) ASTM D 4632_________ min 202
Elongation at failure (%) ASTM D 4632_________ max 20
Trapezoidal tear strength (lb) ASTM D 4533_________ min 70
Puncture strength (lb) ASTM D 6241_________ min 433
Ultraviolet light (%) retained strength) ASTM 4355_________ min 50
Apparent opening size (AOS) ASTM D 4751_________ max 0.22 mm (US sieve size 70)
Permittivity sec^-1 ASTM D 4491_________ min 0.70

*The use of #8(1) will require some of the 15” spacing to be up to 1” plus or minus to achieve uniform spacing of rebars.

REINFORCING STEEL SCHEDULE

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<th>MARK</th>
<th>QUANTITY</th>
<th>SIZE</th>
<th>BAR LENGTH</th>
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<td>1</td>
<td>1”-10”</td>
<td>Straight</td>
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Landowner: Location

Not To Scale