

PROJECT CASE STUDY

Accelerated Wetland Restoration Using DURA-BASE® Composite Mats

Client Major utility provider

Location Central Indiana





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BACKGROUND

A major utility ompany in Central Indiana needed to upgrade a 138kV line crossing several wetlands, culturally sensitie areas, and difficult terrains such as soft, bog-lie soils. The area also contained several threatened and endangered species' habitats like the Eastern Massasauga, Blanding's Turtle and Indiana Bat. This case study highlights one of the difficult areas associated with the project.

CHALLENGE

A temporary construction e trance, short access road, and work pad was constructed within a Palustrine Emergent Wetland so that an existing I ttice ower could be removed and a concrete foundation or a mono pole installed. The soil conditions ere exceptionally challenging as shown in the soil boring log which revealed black, wet peat to a depth of 28.5 feet. A concern from all parties as that if typical 3-ply wood or timber m ts were used, several layers would have to be stacked in these conditions o support the heavy equipment, leaving some mats irretrievable when pushed too far down from the weight. At one point during construction the ork pad supported a 90 ton RT Crane, drill rig, and a concrete truck all at the same time

SOLUTION

To meet the client's objecti es, Newpark Mats & Integrated Services installed two separate layers of DURA-BASE mats with a configuration of 3 i terlocked mats as a base, and 2 interlocked mats positioned on op as the access road. The work pad comprised two idential layers of interlocked mats. All mats remained on the ground for 216 days covering approximately 0.5 acres.

RESULTS

The exceptional eight distribution of the DUR -BASE mats allowed for very little ompaction o the soil and greatly minimized impact to the wetlands. A er the mats were removed, no de-compaction o the soil was required and no seed was applied.



The existing seed bank as unharmed allowing the area to naturally revegetate in under 30 days.









DAY 1 DAY 9 DAY 15 DAY 29

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