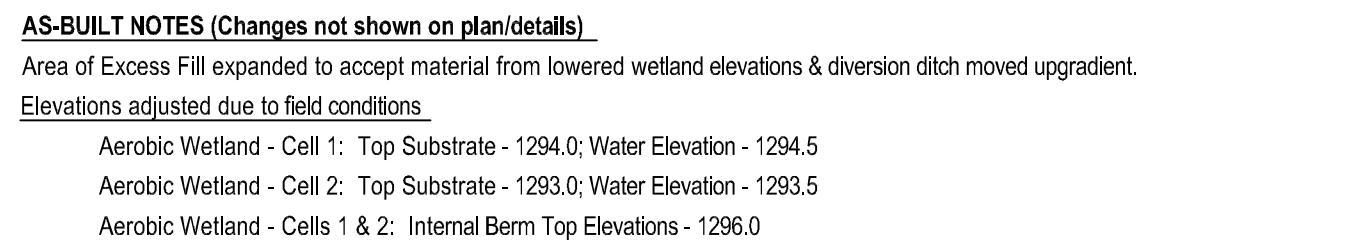


Diagram illustrating a slope stabilization system. The system includes a concrete wall, a layer of 2" x 2" x 36" stakes, and a layer of compacted backfill. The wall is shown with a vertical dimension of 18' and a horizontal dimension of 4'.

3) STRAW BALE BARRIER DETAIL  
NOT TO SCALE

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Notes:

Topographic contours were derived from a bare-earth digital surface model constructed from LIDAR (Spring 2006) from the PAMAP program.

Abandoned oil pipelines exist on the project site. Take caution when working with the pipelines to prevent any remaining oil from entering Blacks Creek.

Existing wetland delineated and located by sub-meter GPS unit by BioMist. A restoration waiver (EA10 08 601) was received on May 30, 2008 for construction activities.

Passive treatment system to be built on property of Dennis Tide and Linda A. Furst (210-2F122: 14-0000).

Wetland to be constructed with a high degree of microrelief to create a diversity of hydrologic regimes within the wetland. Average depth to range between 3" to 6".

Wildlife structures, including snags, brush piles, woody debris, and rock piles, will be placed within and surrounding the wetland.

Woody debris salvaged during clearing and excavation activities will be placed throughout wetland following shrub placement. The majority of woody debris placed within the wetland is to consist of root wads, stumps, logs, and branches > 4 inches in diameter.

Internal wetland berms and slopes within 5 feet of wetland to be seeded with Wildlife Food & Shelter Shrub Mix sold by Ernst Seed, Meadville, PA (ERNMX-138).

Stockpile existing topsoil for use as wetland substrate. Do not compact.

All dimensions, layout, elevations, etc. may be revised based on field conditions or other factors.

Sites information from 2004 USDA, NRCS SSURGO database for Butler County, PA.

HORIZONTAL LOCATIONS OF TEMPORARY BENCH MARKS ARE VERY APPROXIMATE - USE ONLY FOR ELEVATIONS - **DO NOT USE FOR X-Y LAYOUT OUT**

903/DESIGN-FR

NOT TO SCALE