

## RAN-5 PROJECT, JEFFERSON COUNTY, WV

### SWPPP

#### SUMMARY OF EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT PRACTICES

This project is located off of S.R. 9/68 Northport Avenue in Ranson, WV. The project consists of pad, road, and basin grading to establish an industrial production facility. During the initial grading of the site the road and pad shall be constructed to direct the runoff to the proposed sediment basins. The runoff from the out slopes on the proposed construction shall be controlled with silt fence. Once the road and pad gets on grade the proposed storm water collection system shall be installed. Any inlets installed prior to final stabilization shall have inlet protection applied to them. Drainage features such as swales, storm water pipes, and basins are all sized based on full development of the site.

The erosion and sediment control features for the overall grading of the site include, but are not limited to, a stabilized construction entrance with a wash rack, silt fence, rock check dams, inlet protection, rock outlet protection, grass swales, and sediment basins. Initially the stabilized construction entrance, silt fence, and sediment basins will be installed. There are two sediment basins proposed for this project. Temporary collection ditches will be installed to transport sediment laden water to the basins during construction. At no time will more drainage area be diverted to the basins than they are designed for. Once grading of the road and site begins additional E&S features such as rock check dams in diversion ditches shall be installed to assist in controlling runoff. The storm inlets for this site are to be placed within the bottoms of the proposed diversion ditches. Both the ditches and the storm system have been designed to transport the 10 year storm event in the case that the pipes become clogged. As storm inlets are installed, inlet protection shall also be installed and rock outlet protection shall be installed at outfalls of all storm drains. As areas are completed, stone or seed and mulch will be used for stabilization.

There will be no disturbances to streams involved in this proposed grading plan.

Final storm water management for the site will consist of storm drain pipes, a storm water basin and a settling/reuse basin. Sediment basin #1 will be converted to a permanent storm water basin. These basins are sized to detain the 1 and 10-year storm events for the drainage areas and release the runoff at a rate equal to or less than the existing condition. The basin features include a riser and principle spillway barrel which are sized to allow the 100 year storm to pass safely through the features. The runoff from the basins will be discharged into existing natural ditches that will accommodate the calculated runoff.