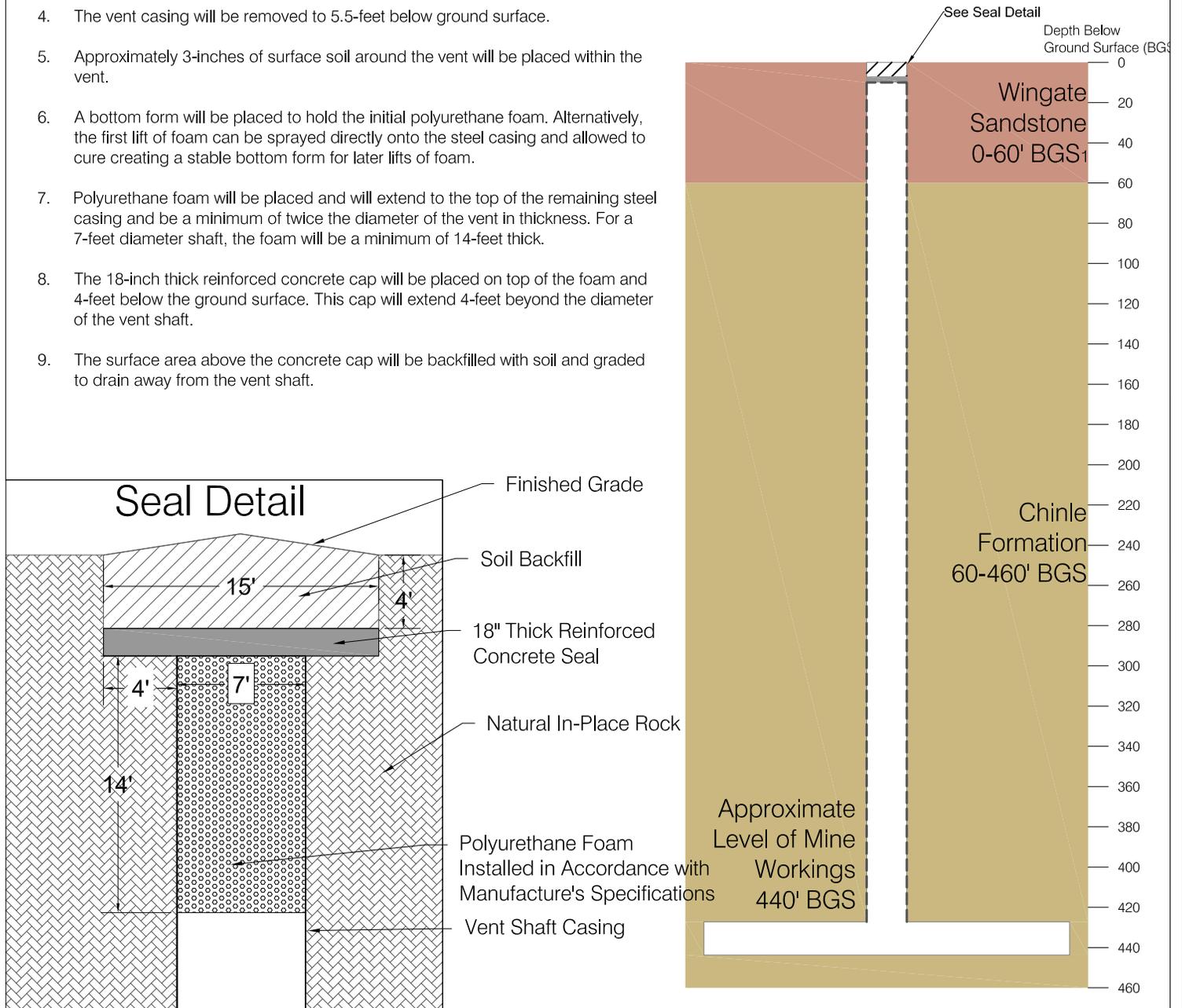
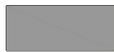


Notes:

1. The Wingate Sandstone varies between 0 feet and greater than 1000 feet thick in the area of the Daneros Mine.
2. The 2 existing vents are 7 feet in diameter and are cased. Future vents are expected to be 7 feet in diameter and cased. All Vents will be cased for the top 20-feet.
3. The concrete foundation for the vent fan shroud will be broken and placed within the vent shaft.
4. The vent casing will be removed to 5.5-feet below ground surface.
5. Approximately 3-inches of surface soil around the vent will be placed within the vent.
6. A bottom form will be placed to hold the initial polyurethane foam. Alternatively, the first lift of foam can be sprayed directly onto the steel casing and allowed to cure creating a stable bottom form for later lifts of foam.
7. Polyurethane foam will be placed and will extend to the top of the remaining steel casing and be a minimum of twice the diameter of the vent in thickness. For a 7-foot diameter shaft, the foam will be a minimum of 14-feet thick.
8. The 18-inch thick reinforced concrete cap will be placed on top of the foam and 4-feet below the ground surface. This cap will extend 4-feet beyond the diameter of the vent shaft.
9. The surface area above the concrete cap will be backfilled with soil and graded to drain away from the vent shaft.



-  Reinforced Concrete Cap
-  Vent Casing
-  Soil Cover



REVISIONS		Project: <b>Daneros Mine</b>	
Date	By	County: San Juan	State: Utah
10/22/14	RE	Location:	
<p><b>Figure 4-1</b>  <b>Vent Closure Design</b>  <b>Cased Vent Shafts</b></p>			
Author: RJE		Date: 10/24/14	Drafted By: