



- NOTES:
1. IF THE AVERAGE SHAFT WIDTH OR LENGTH AT THE BOTTOM OF THE PUF PLUG VARIES MORE THAN TEN PERCENT FROM THE STATED VALUES IN THIS TABLE, RECALCULATE THE DEPTH OF THE PUF PLUG IN ACCORDANCE WITH THE FOLLOWING FORMULA: $d = 0.5a + 0.65b$. RELOCATE THE BOTTOM OF THE PUF PLUG AS REQUIRED.
 2. PRIOR TO PLACING THE PUF PLUG, INFORM THE PROJECT ENGINEER OF ANY PROPOSED CHANGES TO THE DEPTHS OF THE PUF PLUG FOR HIS REVIEW AND APPROVAL.

GENERAL NOTES:

1. INSTALL POLYURETHANE FOAM (PUF) AS SPECIFIED. REMOVE DIRT AND LOOSE ROCK FROM SURFACES AGAINST WHICH PUF WILL BE PLACED. PLACE PUF AGAINST CLEAN, DRY SURFACES.
2. THE CAST-IRON BEEHIVE GRATE AND FRAME SHALL BE NEENAH "R-2560-A" OR APPROVED EQUIVALENT. THE FRAME FOR THE SPECIFIED GRATE WILL NOT FULLY SEAT OVER THE HDPE PIPE. BEVEL THE OUTSIDE EDGES OF THE TOP OF THE PIPE TO WEDGE IT INTO THE FRAME.
3. IF POSSIBLE, ORDER THE BEEHIVE GRATE AND FRAME BOLTED TOGETHER AS ONE UNIT. IF THAT IS NOT POSSIBLE, AT 90° INTERVALS AROUND THE OUTSIDE TOP OF THE PERIMETER OF THE FRAME, DRILL THE FRAME AND TAP THE GRATE FOR FOUR 1/2"x1.25" STAINLESS STEEL NC HEX CAP SCREWS. FASTEN THE GRATE TO THE FRAME WITH THE SCREWS. FILL THE ENTIRE ANNULAR SPACE BETWEEN THE GRATE AND FRAME WITH CONSTRUCTION-GRADE EPOXY.
4. CENTER THE DRAIN PIPE AND GRATE VERTICALLY AT THE CENTROID OF THE SHAFT OPENING.
5. CHAMFER EXPOSED EDGES OF CONCRETE.
6. AS PRACTICABLE, SHAPE THE REMAINING MINE WASTE MATERIAL TO RESEMBLE AN UNDISTURBED MINE WASTE PILE.
7. INSTALL SURVEY CAP IN ACCORDANCE WITH SECTION 02890.

APPROXIMATE SHAFT DIMENSIONS AND CORRESPONDING PUF PLUG DESIGN DEPTHS				
LOCATION	a, SHAFT WIDTH (FT.)	b, SHAFT LENGTH (FT.)	d, PUF PLUG DEPTH (FT.)	APPROX. PUF VOLUME (C.Y.)
6-18	5.0	9.0	8.5	14.2
6-20	7.0	11.0	10.7	30.6
6-101	5.0	8.0	7.7	11.5
7-1	5.0	9.0	8.5	14.2
E (F115)	9.0	10.0	11.0	36.7
H (7-22)	6.0	9.0	9.0	18.0
W (IO 14)	4.0	8.0	7.2	8.6
6-30 BAT CUPOLA	PUF for CUPOLA			7.0
6-37 BAT CUPOLA	PUF for CUPOLA			35
			TOTAL	185

TYPICAL SECTION

ABANDONED MINE LAND PROGRAM MINING AND MINERALS DIVISION NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT			
SCALE: AS SHOWN	VARIOUS LOCATIONS		
DATE: 9/17/2013			REVISED BY: MWT
POLYURETHANE FOAM PLUG CLOSURE			
FILE:	Cerrillos Central/Bonanza Creek Mine Safeguard Project-Phase III		FIGURE: 12