

# Arizona Mine Reclamation L.L.C.



## Perimeter Barriers

### Construction design and Request format

Perimeter Barriers or “PB” are designated as site barrier protection which is designed to resist and limit distance and access by vehicular encroachment to a protected site. Construction of a “PB” will have many factors including but not limited to ease of access, vandalism potential, nature of site, history of site, and most importantly wildlife protection. With so many factors to consider Arizona Mine Reclamation L.L.C. has developed an easy to use system of categorizing perimeter design specifications based on a form of request numbers.

#### Description of form request numbers:

- ❖ Example form request number - **PBS-12-44-38-C**
  - ❖ **PB = Perimeter Barrier**
  - ❖ **S = Steel**
  - ❖ The **12** designates the size of steel posts to be used square = **12 inch x 12 inch** / other examples are PBS8 = 8 inch x 8 inch, PBS6 = 6 inch by 6 inch, PBS4R = 4 inch round diameter.
  - ❖ The **44** designates the size of steel rails to be used square = **4 inch x 4 inch** / other examples are 33 = 3 inch x 3 inch, 22 = 2 inch by 2 inch, 42 = 4 inch x 2 inch.
  - ❖ The **38** designates the thickness of the steel to be used **38 = 3/8”** / other examples are 50 = 1/2 inch, or 25 = 1/4 inch.
  - ❖ The **“C”** designates the steel post columns are **concrete poured**.
- Another example – PBS-8-32-25-N
  - Means Perimeter Barrier steel with 8 inch by 8 inch posts with 3 inch by 3 inch rails that are 1/4" in thickness and posts are not filled.

Construction will consist of placing a fence around the site that meets the following criteria:

- Posts set 3 feet in ground, concrete set, **filled or non filled** and steel cap welded at top. Posts not to exceed 8 feet in distance apart.
- Boulder design will incorporate placing boulders minimum 1 foot in ground to prevent roll over and shall be placed in a manner to limit this action.
- Square, rectangular, or round rails are used between posts and welded. Fence shall be a two rail design with the top rail to be set at 4 feet from ground level with 2 feet between top and bottom rail. On grades a sloped fence design will be employed to maintain 4 feet from top rail to ground level (this maybe a determining factor in post placement and number of posts required).

•See Accompanying Drafts **Perimeter Barrier**•

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### Format Code List (FCL)

<u>Perimeter Barrier</u>	<u>1<sup>st</sup> Number</u>	-	<u>2<sup>nd</sup> Number</u>	-	<u>3<sup>rd</sup> number</u>	-	<u>Letter</u>
<u>Design Type</u>	<u>Post Size</u>		<u>Rail Size</u>		<u>Metal Thickness</u>		<u>Fill type</u>
PBM = Manganal®	12 = 12" x 12" Sq.		44 = 4" x 4" Sq.		58 = 5/8" custom		"N" = non filled
PBB = Boulders	10 = 10" x 10" Sq.		33 = 3" x 3" Sq.		50 = 1/2"		"C" = concrete
PBS = Steel	8 = 8" x 8" Sq.		22 = 2" x 2" Sq.		38 = 3/8"		"G" = gravel
PBO = Other	6 = 6" x 6" Sq.		11 = 1" x 1" Sq.		25 = 1/4"		"D" = dirt
Customer specific	4 = 4" x 4" Sq.		42 = 4" x 2" Rect.		18 = 1/8"		
	12R = 12" round dia.		32 = 3" x 2" Rect.		"N" = Non		
	10R = 10" round dia.		A66 = angle iron 6"x6"				
	8R = 8" round dia.		A44 = angle iron 4"x4"				
	6R = 6" round dia.		A33 = angle iron 3"x3"				
	4R = 4" round dia.		A22 = angle iron 2" x 2"				
	3R = 3" round dia.		A15 = angle iron 1 1/2" x 1 1/2"				
	2R = 2" round dia.		"N" = no rail – used for boulder placement				
	1R = 1" round dia.		R4 = 4" round dia.				
	B100 = 100 pound		R3 = 3" round dia.				
	B200 = 200 pound		R2 = 2" round dia.				
	B300 = 300 pound		R1 = 1" round dia.				
	B400 = 400 pound		R05 = 1/2" round dia.				
	B500 = 500 pound and so on ∞ Recommend 600lb or larger						
	"G" = Gate – no lock – include slide bolt – or enclosed hasp or pin for padlock						
	"GM" = Gate - McGard® bolts						
	"GH" = Gate – Arizona Mine Reclamation L.L.C. Hidden Lock Design (only used on minimum 4" angle iron designs)						