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**Your Local Road Professionals**  
**REVISED**  
**CURVED GRADER CUTTING BLADES**  
**SPECIFICATIONS**

The Benzie County Road Commission is accepting bids for curved grader cutting blades for the 2019 calendar year until 1:00p.m., Friday, March 29, 2019

3/4" X 8" X 72" Single Bevel Grader Blades – 180 sets  
3/4" X 6" X 84" Single Bevel Grader Blades – 10 sets

Wing blade mold board wear shoes – 90  
9' X 8" X 5/8" Reverse curve wing blades - 30

Bids should be for either a 40,000, 20,000 or 10,000 pound load, delivered to Honor.

Standard punching - Holes are desired for 5/8" No. 3 cutting edge bolts.

Steel Grader Blades conforming to the following chemical specifications:

Carbon	.80 - .93	Sulphur	.05 - Maximum
Manganese	.60 - .90	Silicon	.15 - .30
Phosphorus	.04 - Maximum		

Diameter of Brinell Indentation in Millimeters 3.80 - 3.38. Steel of above analysis is expected to produce a Brinell hardness range of 250 - 325. Rockwell Hardness C-Scale 25.4 - 34.7. Must provide Certificate of Analysis or explanation of the Rockwell Hardness.

Exact specifications and methods of handling are maintained to produce blades with a maximum combination of hardness and toughness.

Bolt holes will conform to the Society of Automotive Engineers Specification No. J 740 for countersunk square holes for cutting edges.

Holes are spaced very accurately on a straight line and are located within 1/16" of the dimensioned position using both end holes as datum points.

All proposals must be in sealed envelopes, plainly marked as to contents and the name of the bidder. Telephone or faxed bids will not be accepted.

