

YOU SHOW US CONTEST 2013



“YOU SHOW US” in the “No Flush Zone”



“YOU SHOW US” CONTEST

Judges

- Ron Blachford; *Retired Highway Superintendent (Hand County, SD)*
- Jim Hyde; *DOT Pierre Region Operations Engineer (SD)*
- Tom Croymans, PE LS; *Acting Regional Roads Engineer – Division of Transportation, Great Plains Regional Office, BIA*
- Gary Brennan, PE; *Brosz Engineering (ND)*
- Terry Jorgensen; *Retired DOT Custer Engineering Supervisor / Former Local Government Engineer (SD)*
- Ron McMahon; *Project Development Operations Team Leader - FHWA*
- Mark Clausen; *Structures Engineer / Operations Team Leader - FHWA*

“YOU SHOW US” CONTEST

Judges Ranking Sheet

Please use the following simple score sheet to rank nominees from highest/best (4) to lowest (1).

PROJECT NAME:	Asphalt Leveling Device	Beaver Clean-out Gate for Culverts	Pipe Puller	Sign Repair Platform
Safety Improvement				
Operational Efficiency				
Innovation				
Cost Savings				
Ease of Implementation by Others				
TOTAL:				

Please provide a comment or two as to why you selected your *first* choice:

Colorado: *Pipe Puller*

- Bill Lennox and Mark Mitchell
City of Cañon City



Colorado: *Pipe Puller*

Problem

**Damaged pipe
ends**



Colorado: *Pipe Puller*

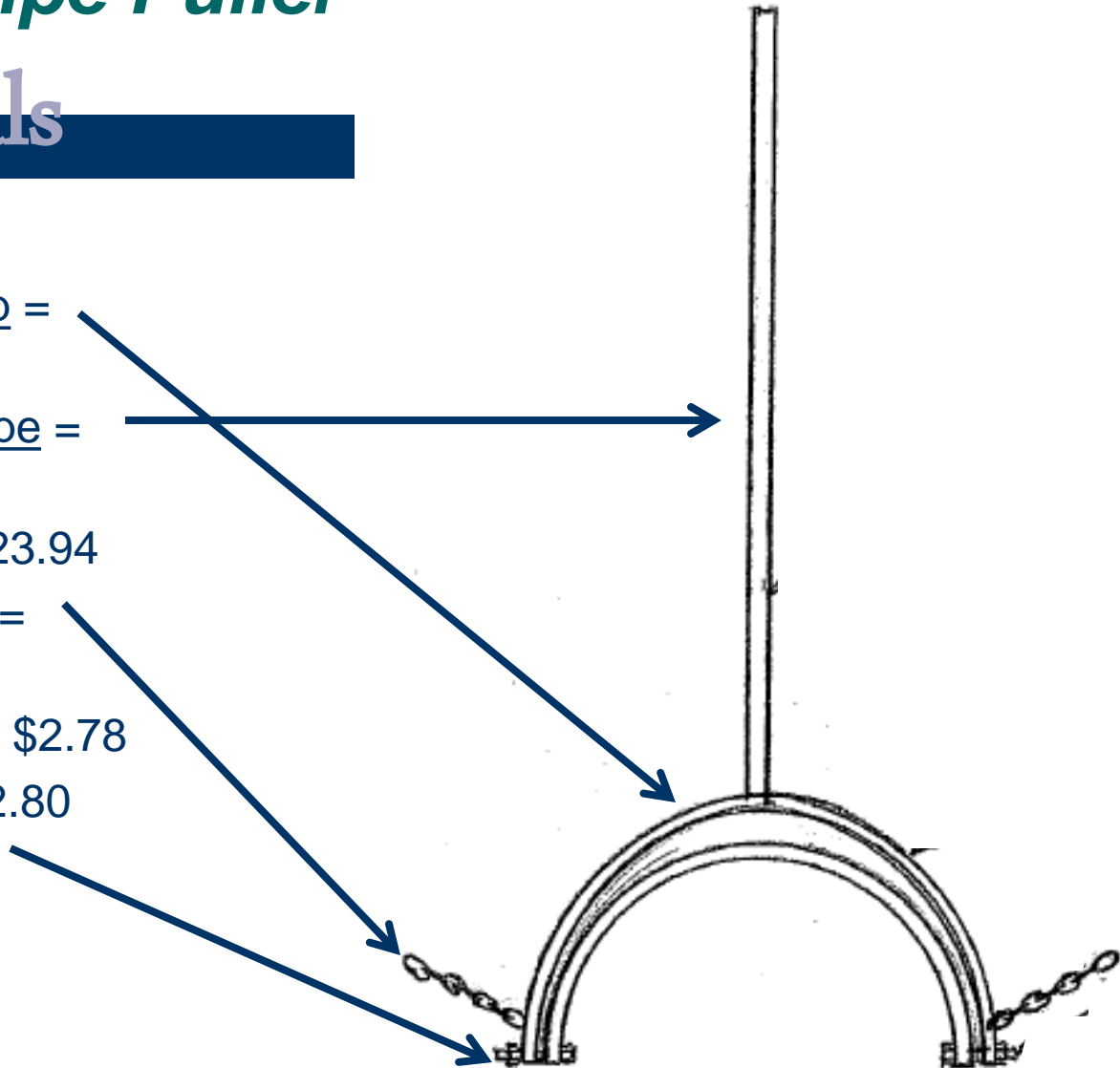
Solution



Colorado: *Pipe Puller*

Labor & Materials

- 6 ft. of 1" x ½" flat strap = \$9.18
- 3 ft. of ¾" black iron pipe = \$7.98
- 6 ft. of 5/16" chain = \$23.94
- 2 - 10" chain boomers = \$17.99
- 2 - 7/16" x 2 ½" bolts = \$2.78
- 2 - 7/16" lock nuts = \$2.80
- Labor = \$160
- **Total cost: \$225.67**



Colorado: *Pipe Puller*

Savings & Benefits

Cost
Time
Safety



Montana: *Beaver Clean-out Gate for Culverts*

- Tim White
Lincoln County



Montana: *Beaver Clean-out Gate for Culverts*

Problem

Unpermitted
construction

=



Montana: *Beaver Clean-out Gate for Culverts*

Solution



Montana: *Beaver Clean-out Gate for Culverts*

Labor & Materials

- Shop time to weld and construct gate = \$140
 - One employee @ \$17.50 per hour x 8 hours
 - Equipment used: metal cutter, welding equipment
- 2" black pipe – 21' @ \$3.50/ft. = \$73.50
- 1/4" x 1-1/2" flat bar – 26' @ \$0.72/ft. = \$18.73
- 2 1/2" black pipe – 6" @ \$5.50/ft. - \$2.75
- **Total Cost: \$234.97**

Montana: *Beaver Clean-out Gate for Culverts*

Savings & Benefits

Cost/Time

Safety

Long-term



North Dakota: *Sign Repair Platform*

- Kenny Tetrault
Burke County



North Dakota: *Sign Repair Platform*

Problem

 **DANGER**



North Dakota: *Sign Repair Platform*

Solution



North Dakota: *Sign Repair Platform*

Labor & Materials

- All steel & iron material was scrap.
 - 2"x2" steel tubing & telespar
 - expanded metal
 - 3/4" round rod for railing
- Materials purchased: hydraulic cylinder & hoses, electric/hydraulic pump, electric switch = \$450
- Labor: 16 hours
- **Total cost: \$450 + Labor**



North Dakota: *Sign Repair Platform*

Savings & Benefits

Cost
Time
Safety



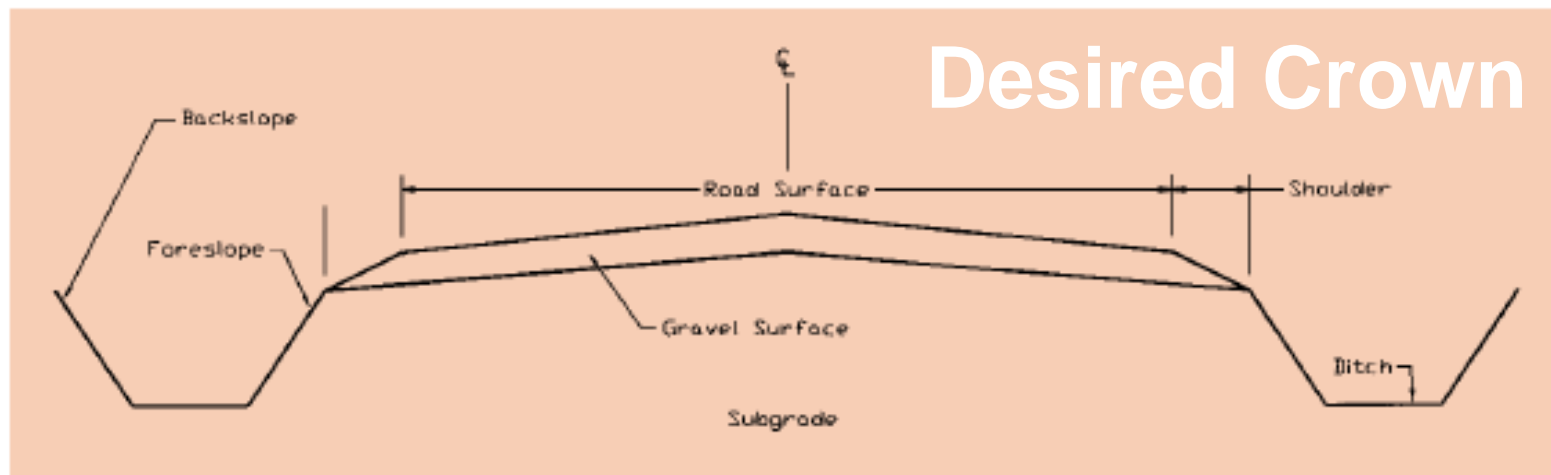
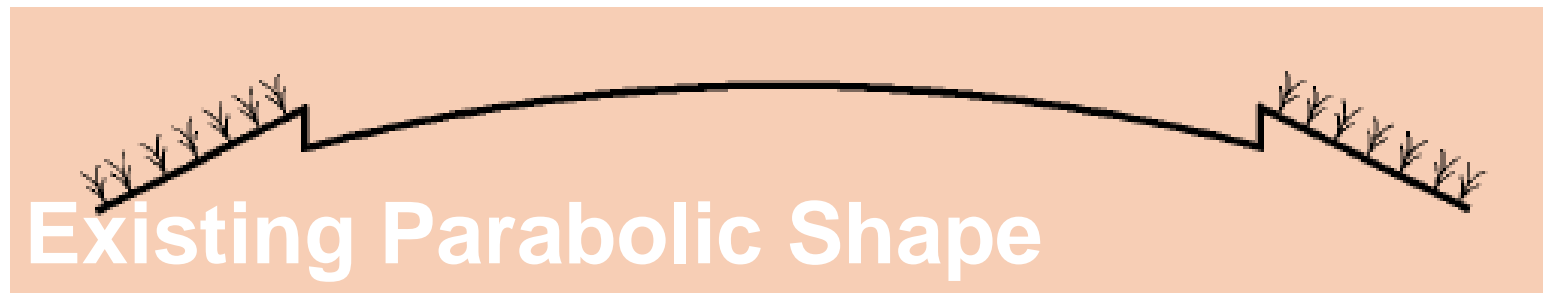
South Dakota: *Asphalt Leveling Device*

- Rod Polley
Clay County



South Dakota: *Asphalt Leveling Device*

Problem



South Dakota: *Asphalt Leveling Device*

Solution



South Dakota: *Asphalt Leveling Device* Labor & Materials

- Materials = \$755
- Labor = \$1,600
- **Total Cost: \$2,355**



South Dakota: *Asphalt Leveling Device* Savings & Benefits

Cost
Safety
Feedback



**AND THE REGIONAL WINNER
IS...**

