

Underground Drawpoint Improved Brow Beam Design



Forefront Services looked at changing the way drawpoint brow beams were designed as the current arrangement is difficult to install and even more difficult to maintain. There is also no flexibility in the current design. The large beams used in the construction of the brow, don't allow the larger particles to flow freely past and as such they regularly jam against it and cause damage.

After much deliberation, it was agreed that the new beam would be manufacture using heavy wall pipe and this would be loosely mounted between fabricated plates secured to the walls and backs. This design would provide: 1. Simplicity of installation as the pipe simply slides into channels on the plates mounted to the wall, 2. Machine based installation, very little labour interaction with mounting the parts, 3. Horizontal adjustment to increase or decrease the rill, and 4. Allow the beam to move freely within the mounts to rotate and release the larger particles as they move past the brow. This reduces the chance of hang up. The pipe is also simple to replace should it get damaged, you just roll the damaged pipe out and roll a new piece in.

Forefront Services deliverables included:

- 3D Design and engineering.
- Manufacturing drawings.
- Installation drawings.
- Component installation.

Forefront completed the design, manufacture and trial installation all within the required timeframes and budget.

Commodity:
Copper

Location:
NSW

Service:
3D design and engineering
Detailed drafting
Installation services

Determined to be the best.

Forefrontservices.com.au



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