

## Kevin Skogman

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**Subject:** FW: MCC's Upgrade;

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**From:** Gerbitz, Mike <mgerbitz@donohue-associates.com>  
**Sent:** Tuesday, November 29, 2022 12:15 PM  
**To:** Kevin Skogman <Kevin.Skogman@hvmsd.org>  
**Cc:** Gerbitz, Mike <mgerbitz@donohue-associates.com>  
**Subject:** RE: MCC's Upgrade;

Hey, Kevin. I did have our lead electrical engineer look at the cost breakdown. These costs are reasonable and in the vicinity of what we would expect.



**Mike Gerbitz, PE** [MI, MN, WI]  
Mobile | 920 889 4000

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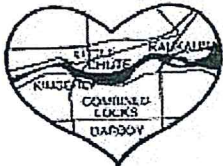
**From:** Kevin Skogman <Kevin.Skogman@hvmsd.org>  
**Sent:** Monday, November 14, 2022 9:51 AM  
**To:** Gerbitz, Mike <mgerbitz@donohue-associates.com>  
**Subject:** MCC's Upgrade;

Good morning,

Here is a cost breakdown for the MCC's upgrade to go from Device net to Ethernet. (see below)

If more info is needed from LW Allen maybe a quick conference call to Kurt would be more valuable.

Kevin Skogman  
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Heart of the Valley Metro. Sew. Dist.  
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Please see the below. I broke it out as much as AB broke it out for me. They still grouped the frame mounted drives, which include

- (2) 75HP
- (3) 100 HP
- (2) 125 HP
- (2) 150 HP
- (3) 200 HP

I broke up the labor equally for each bucket versus trying to continue breaking it down from there. The programming regardless of the motor size will be similar. The numbers don't work out exact because of rounding, but its close.

| Starters | HP  | Qty | Cost/Bucket | Total           |
|----------|-----|-----|-------------|-----------------|
| Nema     | 1   | 60  | \$ 8,327.81 | \$ 499,668.60   |
| Size 2   | 2   | 7   | \$ 8,595.76 | \$ 60,170.32    |
| Size 3   | 3   | 4   | \$ 8,830.22 | \$ 35,320.88    |
| Size 4   | 4   | 9   | \$10,076.20 | \$ 90,685.76    |
| FVR      | 1   | 5   | \$ 9,567.09 | \$ 47,835.45    |
| VFDs     | 1   | 1   | \$10,973.83 | \$ 10,973.83    |
| VFDs     | 1.5 | 2   | \$10,993.93 | \$ 21,987.86    |
| VFDs     | 2   | 6   | \$11,062.26 | \$ 66,373.55    |
| VFDs     | 3   | 5   | \$11,062.26 | \$ 55,311.29    |
| VFDs     | 5   | 4   | \$11,131.93 | \$ 44,527.70    |
| VFDs     | 7.5 | 2   | \$11,257.86 | \$ 22,515.73    |
| VFDs     | 10  | 5   | \$11,078.34 | \$ 55,391.68    |
| VFDs     | 15  | 5   | \$11,898.27 | \$ 59,491.34    |
| VFDs     | 20  | 4   | \$12,146.12 | \$ 48,584.50    |
| VFDs     | 25  | 2   | \$12,434.17 | \$ 24,868.35    |
| VFDs     | 40  | 5   | \$13,827.52 | \$ 69,137.62    |
| VFDs     | 50  | 4   | \$14,417.02 | \$ 57,668.07    |
| VFDs     | 75+ | 12  | \$24,338.39 | \$ 292,060.64   |
|          |     |     |             | \$ 1,562,573.17 |

Allen Bradley is expecting a 10% increase in January (Maybe more), that is built in.