

**Resolution 2022-69**

**RESOLUTION OF THE VILLAGE BOARD OF THE VILLAGE OF CALEDONIA  
CREATING A SCHEDULE OF COSTS FOR CULVERT DRIVEWAY  
REPLACEMENT AND INSTALLATION**

**WHEREAS**, it has been recommended by the Village’s Public Works Committee that the Village revise its culvert replacement ordinance to specify that the Village and property owner shall equally share the cost of culvert replacement; and

**WHEREAS**, the Department of Public Works has prepared a schedule of costs for culvert replacement in accordance with Sec. 14-2-5(d) of the Village’s Code of Ordinances.

**NOW, THEREFORE, BE IT RESOLVED** by the Village Board of the Village of Caledonia that the schedule of costs set forth below shall be charged in relation to culvert driveway replacement and installation.

**Cost of Culvert Replacement**

Size of Culvert	Estimate Cost
12”	\$2,835.00
15”	\$3,000.80
18”	\$3,203.40
21”	\$3,377.40
24”	\$3,549.20
Culverts larger than 24”	Billed at 50% Time and Materials Rates

**Breakdown of Costs for Driveway Culvert Installation  
(Arch, Pipe and Aprons)**

Materials:

12” Culvert x 22’ Arch Pipe = \$528.00  
with 2-End Aprons = \$209.00  
\$737.00

Stone = \$150.00  
Materials Total: \$887.00

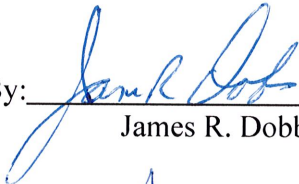
Labor:

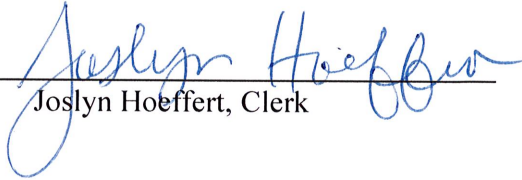
5-men @ \$55.00 p/hr  
per man – 4 hours = \$1100.00  
Eng. Review \$ 200.00  
Labor Total: \$1300.00

Equipment:			
1 – Backhoe @\$55.00 p/hr – 4 Hrs.	=		\$220.00
2 – Tadems @\$42.50 p/hr – 4 Hrs.	=		\$340.00
1 -1 Ton @\$22.00 p/hr – 4 Hrs.	=		<u>\$ 88.00</u>
Equipment Total	=		\$648.00
<b>Job Total for 12” Culvert</b>	=		<b>\$2,835.00</b>

Adopted by the Village Board of the Village of Caledonia, Racine County, Wisconsin, this 11 day of July, 2022.

**VILLAGE OF CALEDONIA**


By:   
 James R. Dobbs, President

Attest:   
 Joslyn Hoeffert, Clerk

# MEMORANDUM

**DATE:** Tuesday, June 7, 2022

**TO:** Public Works Committee

**FROM:** Anthony A. Bunkelman P.E.  
Public Services Director 

**RE:** Driveway Culvert Replacement – Culvert Cost updates

## BACKGROUND INFORMATION

The Village of Caledonia instituted a cost share for the replacement of driveway culverts for property owners. The cost share calculations were performed in 2009 and can be found in Resolution 2009-25.

In 2009, the cost for the culverts alone were 12" – \$497.80, 15" - \$610.00, 18" – 701.00, 21" – \$825.30, & 24" – \$946.00. These culvert costs have been fairly close to these approved costs up to recently. Due to rising costs in culverts, the staff is concerned about the effect of the price of culverts not being in line with the times. The staff has obtained an updated price sheet from Western Culvert & Supply Inc. This price sheet shows that the current culvert costs are significantly higher than the culvert costs from 2009. The attached sheets indicate that the costs of the culverts have increased by as little as 48% to as much as 58%. It is being recommended that the costs for the driveway culvert replacement be updated as shown on the attached sheet.

A Resolution has also been prepared updating the driveway culvert replacement costs and is recommended for approval.

## RECOMMENDATION

**Move to approve the attached sheets for updated culvert replacement costs for 2022.**

**Move to recommend to the Village Board that the attached Resolution with updated culvert replacement costs that replaces Resolution 2009-25 be adopted.**

Resolution 2009 - 25

Culvert Replacement Prices

Prices for 22' Lengths - Lengths up to 30' then prorate materials

	12"	15"	18"	21"	24"
Pipe	\$ 377.00				
Apron	\$ 120.80				
Total Culvert Cost	\$ 497.80	\$ 610.00	\$ 701.00	\$ 825.30	\$ 946.00
Stone	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00
Engineering Labor	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00
Highway Labor	\$ 1,100.00	\$ 1,100.00	\$ 1,100.00	\$ 1,100.00	\$ 1,100.00
Equipment	\$ 648.00	\$ 648.00	\$ 648.00	\$ 648.00	\$ 648.00
Overall Cost	\$ 2,595.80	\$ 2,708.00	\$ 2,799.00	\$ 2,923.30	\$ 3,044.00
1/2 Cost Share	\$ 1,297.90	\$ 1,354.00	\$ 1,399.50	\$ 1,461.65	\$ 1,522.00

Current Culvert Prices as of April 2022

	12"	15"	18"	21"	24"
Pipe	\$ 528.00	\$ 633.60	\$ 792.00	\$ 897.60	\$ 1,003.20
Aprons	\$ 209.00	\$ 269.20	\$ 313.40	\$ 381.80	\$ 448.00
Total Culvert Cost	\$ 737.00	\$ 902.80	\$ 1,105.40	\$ 1,279.40	\$ 1,451.20

Diference In Cost	\$ 239.20	\$ 292.80	\$ 404.40	\$ 454.10	\$ 505.20
Increase	48%	48%	58%	55%	53%

Recommended Changes for Culvert Replacement Prices

	12"	15"	18"	21"	24"
Pipe	\$ 528.00	\$ 633.60	\$ 792.00	\$ 897.60	\$ 1,003.20
Apron	\$ 209.00	\$ 269.20	\$ 313.40	\$ 381.80	\$ 448.00
Total Culvert Cost	\$ 737.00	\$ 902.80	\$ 1,105.40	\$ 1,279.40	\$ 1,451.20
Stone	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00
Engineering Labor	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00
Highway Labor	\$ 1,100.00	\$ 1,100.00	\$ 1,100.00	\$ 1,100.00	\$ 1,100.00
Equipment	\$ 648.00	\$ 648.00	\$ 648.00	\$ 648.00	\$ 648.00
Overall Cost	\$ 2,835.00	\$ 3,000.80	\$ 3,203.40	\$ 3,377.40	\$ 3,549.20
1/2 Cost Share	\$ 1,417.50	\$ 1,500.40	\$ 1,601.70	\$ 1,688.70	\$ 1,774.60

# WESTERN CULVERT & SUPPLY, INC.

Office & Yard: W324 Delafield Road  
Oconomowoc, WI 53066

(262) 569-8666

April 1, 2022

## CONTRACTORS PRICE LIST

### CORRUGATED PIPE & PIPE-ARCH Galvanized 2/23" x 1/2" Corrugation

Pipe Dia.	Galv. Ga.	Galv. Pipe Price/Ft.	End Area Sq. Ft.	Pipe-Arch Size	Galv. Pipe-Arch Price/Ft.	End Area Sq. Ft.	Galv. Weight #/Ft.
*6	16	15.60	-	-	-	-	4
*8	16	23.20	-	-	-	-	6.5
*10	16	24.20	-	-	-	-	8
*12	16	23.30	0.8	*14x9	24.00	0.7	10 \$528 25
*15	16	26.70	1.2	*17x13	28.80	1.1	13 \$633 25
*18	16	33.40	1.8	*21x15	36.00	2.1	15 \$792 25
*21	16	37.80	2.4	*24x18	40.80	2.2	18 \$897 25
*24	16	42.30	3.1	*28x20	45.60	2.8	20 \$1,003 25
*30	14	66.70	4.9	*35x24	72.00	4.4	31
*36	14	80.00	7.1	*42x29	86.40	6.4	37
*42	12	131.10	9.6	*49x33	141.60	8.7	60
*48	12	144.40	12.6	*57x38	156.00	11.4	68
*54	12	162.20	15.9	*64x43	175.20	14.3	78
*60	10	228.90	19.6	*71x47	247.20	17.6	110

*\*Minimum State Highway Gage*

Connecting Bands: 7" wide (8" thru 30") - cost the same as one foot of pipe.

12" wide (36" thru 60") - cost the same as 1 1/2 feet of pipe.

24" wide (72" thru 96") - cost the same as two feet of pipe.

Gage and grade of pipe ordered determines the price of the band. Aluminized Type 2 available in all gages.

Prices are subject to change without notice and do not include sales tax.

**PRICES ARE VALID FOR 30 DAYS.**

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April 1, 2022

## CONTRACTORS PRICE LIST

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### STEEL END SECTIONS (PIPE & PIPE-ARCH)

Pipe Size	Price Each	Wt. Each	Size	Pipe-Arch Price Each	Wt. Each
6"	91.00		N/A		
8"	92.00		N/A		
10"	95.70		N/A		
12"	104.50	28#	14x9	USE ROUND FES	
15"	132.80	36#	17x13	134.60	30#
18"	175.20	50#	21x15	156.70	37#
21"	207.90	62#	24x18	190.90	47#
24"	256.00	76#	28x20	224.00	60#
30"	468.00	157#	35x24	375.60	109#
36"	755.30	209#	42x29	592.50	165#
42"	1522.50	430#	49x33	944.00	276#
48"	1,767.50	509#	57x38	1,185.10	361#
54"	1,876.80	630#	64x43	1,872.00	520#
60"	3036.90	826#	71x47	2,446.40	790#

12" x 22' + APRONS — \$737  
 15" x 22' + APRONS — \$897  
 18" x 22' + APRONS — \$1,142  
 21" x 22' + APRONS — \$1,313  
 24" x 22' + APRONS — \$1,453

**Resolution 2009-25**

**RESOLUTION OF THE VILLAGE BOARD OF THE VILLAGE OF CALEDONIA  
CREATING A SCHEDULE OF COSTS FOR CULVERT DRIVEWAY  
REPLACEMENT AND INSTALLATION**

**WHEREAS**, it has been recommended by the Village's Public Works Committee that the Village revise its culvert replacement ordinance to specify that the Village and property owner shall equally share the cost of culvert replacement that service private driveways within Village right-of-way; and

**WHEREAS**, the Department of Public Works has prepared a schedule of costs for culvert replacement in accordance with Sec. 14-2-5(d) of the Village's Code of Ordinances.

**NOW, THEREFORE, BE IT RESOLVED** by the Village Board of the Village of Caledonia that the schedule of costs set forth below shall be charged in relation to culvert driveway replacement and installation.

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21"	\$2,923.30
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Culverts larger than 24"	Billed at 50% Time and Materials Rates

**Breakdown of Costs for Driveway Culvert Installation  
(Arch, Pipe and Aprons)**

**Materials:**

12" Culvert x 22' Arch Pipe	=	\$377.00	
with 2-End Aprons	=	<u>+\$120.80</u>	
		\$497.80	
Stone:	=	<u>+\$150.00</u>	
Total Materials:			\$ 647.80

**Labor:**

5-men @ \$55.00 p/hr			
per man – 4 hours	=	\$1,100.00	
Engineering Review		<u>+\$ 200.00</u>	
Total Labor:			\$1,300.00



Equipment:

1 - Backhoe @\$55.00 p/hr - 4 Hrs.	=	\$ 220.00
2 - Tadems @\$42.50 p/hr - 4 Hrs.	=	\$ 340.00
1 - 1 Ton @\$22.00 p/hr - 4 Hrs.	=	<u>\$ 88.00</u>

Total Equipment: = \$ 648.00

**Job Total for 12" Culvert = \$2,595.80**

Adopted by the Village Board of the Village of Caledonia, Racine County, Wisconsin,  
this \_\_\_\_ day of November, 2009.

**VILLAGE OF CALEDONIA**

By: \_\_\_\_\_  
Ronald Coutts, President

Attest: \_\_\_\_\_  
Karie L. Torkilsen, Clerk