



PUBLIC WORKS COMMITTEE MEETING
June 13, 2022 at 4:30 p.m.
Caledonia Village Hall – 5043 Chester Lane

1. Call to Order
2. Approval of Minutes
3. Mona Park Road Vehicular Turnaround
4. **Resolution 2022-XX** - Resolution Of The Village Board Of The Village Of Caledonia Creating A Schedule Of Costs For Culvert Driveway Replacement And Installation
5. Adjournment

June 10, 2022

Joslyn Hoeffert
Village Clerk

Only committee members are expected to attend. However, attendance by all Board members (including non-members of the committee) is permitted. If additional (non-committee) Board members attend, three or more Board members may be in attendance. Section 19.82(2), Wisconsin Statutes, states as follows:

If one-half or more of the members of a governmental body are present, the meeting is rebuttably presumed to be for the purposes of exercising the responsibilities, authority, power or duties delegated to or vested in the body.

To the extent that three or more members of the Caledonia Village Board actually attend, this meeting may be rebuttably presumed to be a "meeting" within the meaning of Wisconsin's open meeting law. Nevertheless, only the committee's agenda will be discussed. Only committee members will vote. Board members who attend the committee meeting do so for the purpose of gathering information and possible discussion regarding the agenda. No votes or other action will be taken by the Village Board at this meeting.

**Public Works Committee
May 9, 2022**

Trustee Weatherston called the meeting to order at 4:15 p.m. in the Boardroom of the Village Hall, 5043 Chester Lane, Racine, Wisconsin.

Present were: Trustee Weatherston and Trustee McManus. Trustee Stillman was also present

Absent: None

Staff present: Public Services Director Anthony Bunkelman, Village Engineer Ryan Schmidt, and Village Administrator Kathy Kasper

1. Approval of minutes

Motion by Trustee McManus to approve the minutes from the January 10, 2022, meeting.

Seconded by Trustee Weatherston. Motion carried unanimously.

2. Payne & Dolan Blasting Permit

Memorandum:

From: Anthony A. Bunkelman – Public Services Director

BACKGROUND INFORMATION

Re: Payne & Dolan – Racine Quarry – Explosives and Blasting Permit

The Village of Caledonia issues an annual Explosives and Blasting Permit for the Payne & Dolan Racine Quarry. The information and the required permit fees for the Permit was submitted by Payne & Dolan on April 25th, 2022.

The information for the permit was reviewed by the Engineering Department and appears to be in order. There is one expiring license during this permit period that will need to be updated. If any new blasting personnel are added, an updated Blaster list is required.

This Explosive and Blasting Permit is valid from July 1, 2022 to June 3, 2023.

This Explosive and Blasting Permit is hereby recommended for approval at the May 9th Public Works Committee meeting and the May 16th Village Board meeting.

RECOMMENDATION

Move to approve the Explosive and Blasting Permit for Payne & Dolan, Inc. – Racine Quarry subject to the following:

- 1. An updated Licensed Blasters List for the Racine Quarry is submitted to the Village as licenses are renewed or staff is added so a current list is on file at the Village Hall.**

Payne and Dolan presented the highlights for the explosive use permit renewal. A blasting summary was provided breaking down the number of blasts, days, and the average of PPV, HZ, and DB. This data presented compared 2020, 2021, and 2022 YTD. The PreBlast Survey included:

- Notification distances are the same as prior years. 788' around the East Quarry and 906' around the west quarry
- Fourth year that neighbors will be getting PreBlast survey notices for blasting in the new area
- 398 PreBlast Survey offer letters sent out on April 25th
- 2 requests received to date
- Vibra-Tech to complete in the Summer
- Completed PreBlast Surveys
 - 2019 – 46
 - 2020 – 13
 - 2021 – 6

2022 Highlights included:

- Application was revised in 2019 to account for blasting in New Area
- Four permanent seismographs are installed in the same location as last year (St. Rita, Marquette, Berkely, Ellis)
- Summary of Blasting Results provided to the Village monthly
- Blasting will continue in the New Area
- Aren't anticipating any blasting in West quarry for the foreseeable future
- PreBlast notification – 48 people signed up

Payne & Dolan – Racine Quarry – Explosives and Blasting Permit:

Public Works Committee Members questioned the timing of the blasts, and the average time is before noon.

Motion by Trustee McManus approve the Explosive and Blasting Permit for Payne & Dolan, Inc. – Racine Quarry subject to the following:

1. An updated Licensed Blasters List for the Racine Quarry is submitted to the Village as licenses are renewed or staff is added so a current list is on file at the Village Hall.

Seconded by Trustee Weatherston. Motion carried unanimously.

3. Racine County Youth Development and Care Center - TIA

Memorandum:

From: Anthony A. Bunkelman – Public Services Director

BACKGROUND INFORMATION

Re: Racine County Youth Development and Care Center - TIA

As part of the proposed Racine County Youth Development and Care Center on 3 Mile Road, the Village of Caledonia required a Traffic Impact Analysis (TIA) per Resolution 2011-06 and Village Ordinance for High/Moderate Impact Development as defined in Title 16.

Traffic Analysis and Design, Inc. (TADI) performed and submitted the TIA to Village Staff in April for approval. The study area included 3 Mile Road from STH 32/Douglas Ave. to the intersection at Wyoming Way. The TIA documents the peak hour traffic impacts expected at the aforementioned intersections along 3 Mile Road with the volume expected to be added by the proposed development. The TIA also analyzed and evaluated the sight distance for vehicles at the proposed access to the development due to the nature of the topography along 3 Mile Road.

With a range of 55-65 staff being employed over 3 different daily shifts, the study showed that all traffic movements operated at a Level of Service B or better during peak traffic hours with the proposed buildout. The TIA also recommended that no changes to the existing geometrics occur on 3 Mile Road. The proposed access is recommended to be located 75-145 feet east of the existing gravel driveway to meet the proper intersection and stopping sight distance requirements.

RECOMMENDATION

Move to approve the Traffic Impact Analysis performed by TADI for the Racine County Youth Development and Care Center on the condition that the final driveway location is surveyed, cross-checked, and verified for all applicable sight distance requirements by the developer.

Racine County Youth Development & Care Center Traffic Impact Analysis:

Public Works Committee Members questioned how TADI might establish how to determine the amount of traffic this might generate. TADI explained that they compare data on previous studies for similar analysis and base it off an average number. Racine County paid for the TIA.

Motion by Trustee McManus to approve the Traffic Impact Analysis performed by TADI for the Racine County Youth Development and Care Center on the condition that the final driveway location is surveyed, cross-checked, and verified for all applicable sight distance requirements by the developer.

Seconded by Trustee Weatherston. Motion carried unanimously.

3. Adjournment

Trustee McManus motioned to adjourn. Seconded by Trustee Weatherston. Motion carried unanimously. Meeting adjourned at 4:27 p.m.

Respectfully submitted,
Joslyn Hoeffert, Village Clerk

ENGINEERING REQUEST FORM

ADDRESS: 4124 Mona Park Road – Turnaround “T” Extension East End of Mona Park Road

NAME: Scott Fiorita – 4118 Mona Park Road / Patrick Flynn 4124 Mona Park Road

PHONE NUMBER: 262-902-2800 - Scott

DATE: 6-6-22

PERSON TAKING REQUEST: Tony to Rich/Ryan/Bill

REMARKS: Based on a letter that was sent to Tony Bunkelman from Scott Fiorita (see attachment) the Engineering Department and Highway Department were requested to review safety concerns with an inadequately sized Turnaround “T” located at the East end of Mona Park Road. Larger Vehicles such as garbage trucks cannot turn their vehicles around in the space provided and are having to back in and out of Mona Park Road creating a potential safety issue.

REVIEW & RECOMMENDATIONS:

Rich, Ryan, Jackson, and Bill met on site on 6-7-22. Mr. Flynn was also present. The Engineering Department identified the Right of Way and/or Road Easement area. See attached survey. The Engineering Department recommended opening up/blowing out the silted in cmp (located in the turnaround) that drains under Mona Park Road. The Highway Department should daylight the cmp and install swales/regrade area to ensure proper drainage to the South is maintained. If the cmp does not require replacement, a 45° bend with an extension and apron may be necessary to widen the turn on the Northwest side of the T. The Village Standard for the gravel/paved portion of a Turnaround “T” is 25’ wide for a distance of 50’ from the centerline of the road. In this case, on the North side of the “T”, there is a fire hydrant, cross culvert, water valve, and some large pine trees that will interfere with those dimensions. The Highway Department will try to install the “T” as close to the standard as possible. Some trees and bushes may need to be removed. The Highway Department will also need to widen and lengthen the South side of the Turnaround “T” as well. This area is open and does not have any obstructions in it so making it conform to the standard should not be a problem. On the South side of the “T” there is an easement/access that extends down to the Root River. People using this access may be tempted to park their vehicles there when using the access, restricting the use of the turnaround, causing larger vehicles to have to back down Mona Park Road again. It is recommended to install No Parking signage to ensure that the “T” will be kept open and unobstructed.

STATUS: Item to go in front of Public Works for approvals.

DIRECTOR OF PUBLIC SERVICES: _____

Anthony Bunkelman

DATE: 6-9-2022

Rich Sehrbrock

From: Tony Bunkelman
Sent: Monday, June 6, 2022 10:34 PM
To: Ryan Schmidt; Rich Sehrbrock; Bill Jacoby
Subject: FW: Send data from MFP11848934 06/06/2022 22:34
Attachments: DOC060622-06062022223356.pdf

Ryan, Rich, and Bill

Based on the conversation I had with Mr. Forita and what I had discussed with some of you, please come up with a solution that can be presented to the Public Works Committee on June 13th.

From my understanding Mr Forita will be attending the meeting to discuss his concerns that he placed in the attached letter I received today.

It sounded as if Ryan and Rich were going to be doing some surveying and locating the property irons.

From there we can look at installing a temp tee within the Right of Way that is available.

For the Public Works meeting, please have an exhibit put together that indicates the Property irons found and a rough sketch of the tee that could be installed.

If John's has issues turning around our Highway Department does as well.

I am not opposed to having the Mona Park Road on the Southern end posted with No Parking, but we would need to have Public Works Committee approval and then update the Ordinance for enforcement.

Thanks

Tony

-----Original Message-----

From: General Copier <GeneralCopier@caledonia-wi.gov>
Sent: Monday, June 6, 2022 10:34 PM
To: Tony Bunkelman <ABunkelman@caledonia-wi.gov>
Subject: Send data from MFP11848934 06/06/2022 22:34

Scanned from MFP11848934
Date:06/06/2022 22:34
Pages:2
Resolution:600x600 DPI

TO: TONY BUNKELMAN
FROM: SCOTT FIORITA 4118 MONA PARK RD 262-902-2800
SUBJECT: TURN AROUND AT END OF MONA PARK RD

THE TURN AROUND AT THE END OF MONA PARK RD IS BECOMING A SAFTY ISSUE NOT BEING ABLE TO ACCOMODATE THE LARGER TRUCKS THAT NEED TO TURN AROUND,

SOMETIMES NO FAULT OF THEIRS THE LARGER TRUCKS CANT MAKE THE TURN AROUND, LIKE JOHNS DISPOSAL, AND THEY HAVE TO BACK UP ON OUR 30' FT WIDE ROAD TO RIVER PARK LN AND TURN AROUND THERE TO BACK UP AGAIN ON MONA PARK TO PICK UP THE OTHER SIDE, ITS ONLY GOING TO GET WORSE WITH JOHNS SAYING THEY ARE GOING TO BUY EVEN BIGGER TRUCKS IN THE FUTURE,

OTHER VEHICLES LIKE AMAZON AND LAWN CARE SERVICES TRY TO TURN AROUND IN MY DRIVEWAY AT 4118 MONA PARK WRECKING MY DRIVE WAY AND BACKING INTO THE FENCE AT 4205 MONA PARK. ITS A HASSLE BUT SOMETIMES I HAVE TO PUT A CHAIN ACROSS MY DRIVE TO PREVENT THIS.

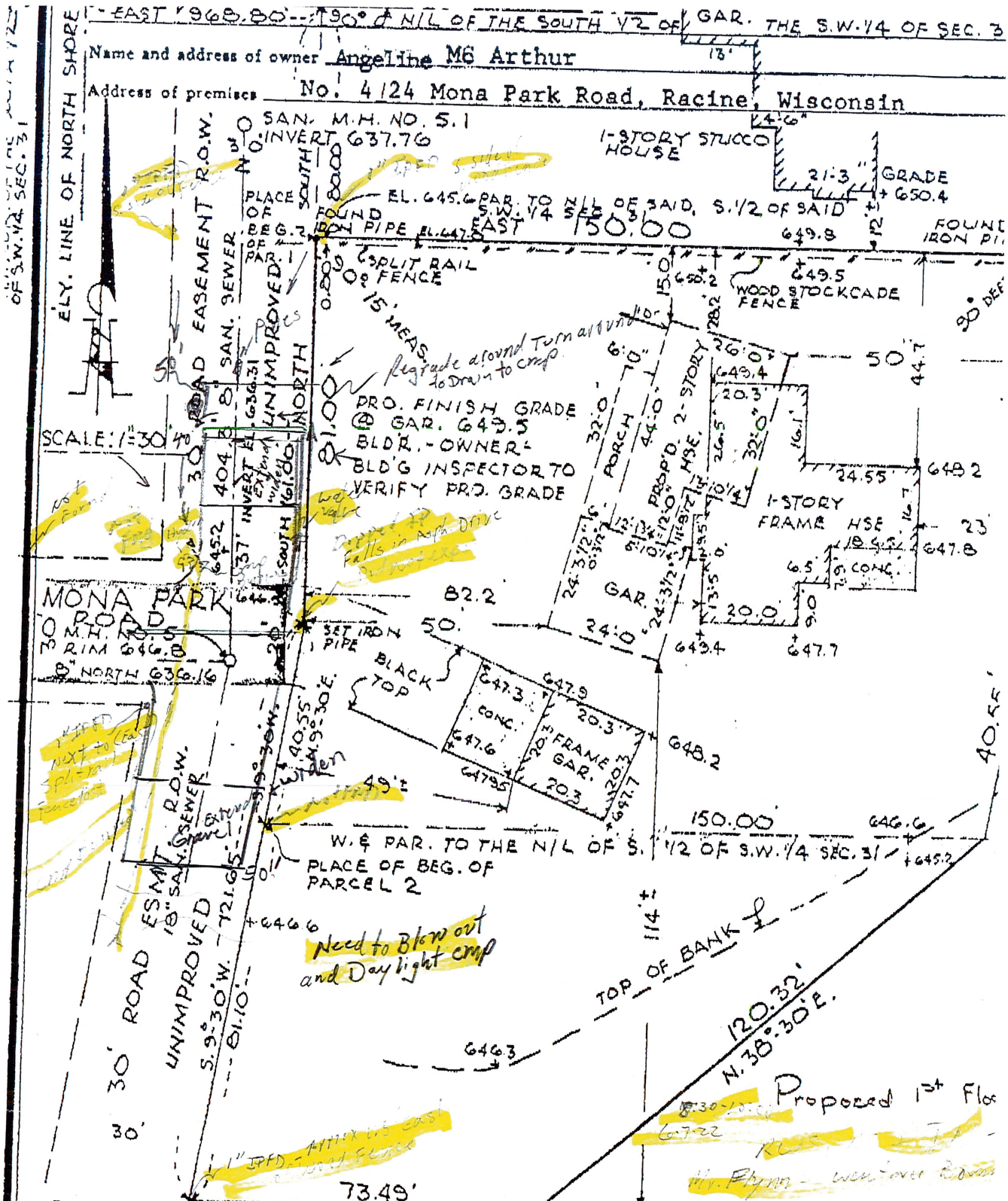
ONE SUGGESTION FROM THE DRIVERS IS TO IMPROVE THE NORTH PART OF THE TURN AROUND BY MAKING LONGER, ANOTHER SUGGESTION THAT WOULD HELP IS TO PUT NO PARKING SIGNS ON THE NORTH AND SOUTH PARTS TO PREVENT PEOPLE FROM PARKING THERE. ALSO A SIGN LOCATED BEFORE THE TURN AROUND SO THEY KNOW ONE IS PRESENT, THE SIGN COULD EVEN BE PLACED ON SAME POST AS THE DEAD END SIGN.

VISABILITY OF THE TURN AROUND IS ANOTHER ISSUE. PEOPLE DONT KNOW ITS THERE, SO THEY USE MY DRIVEWAY.

ANOTHER SOLUTION IF POSSIBLE IS TO TALK TO THE OWNER OF THE PROPERTY AT 4205 MONA PARK TO SEE IF A SMALL PIECE OF THEIR LOT COULD BE CUT OFF TO MAKE A BETTER ACCESS TO ENTER TURN AROUND.

THIS SUBJECT IS REALLY BECOMING A SAFTY ISSUE. I WOULD APPRECIATE ANYTHING THAT CAN BE DONE. THANK-YOU.

SCOTT FIORITA 262-902-2800



State of Wisconsin }
 County of Milwaukee } SS EAST & PAR. TO THE N/L OF THE S. 1/2 OF S.W. 1/4 SEC. 31

I, WILLIAM H. SCHMITT, hereby certify that I have surveyed the above described property on the day of July, 1994, and the above map is a true representation thereof and shows the situation of the property, its exterior boundaries, the location and dimensions of all visible structures thereon, fence easements and roadways and visible encroachments, if any.

This survey is made for the exclusive use of the present owners of the property, and also those who mortgage, or guarantee the title thereto within one (1) year from date hereof; and as to them the accuracy of and map to within those standards generally acceptable in the surveying profession.

William H. Schmitt
 REGISTERED LAND SURVEYOR



4216

4210

4118

4124

215

205

MONAPARK RD

MONAPARK RD

Existing Hydrant

Proposed Expansion of
Gravel Turnaround T

Existing Culvert

Proposed Expansion of
Gravel Turnaround T

Resolution 2022-XX

**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	=	<u>\$209.00</u>
		\$737.00

Stone	=	<u>\$150.00</u>
Materials Total:		\$887.00

Labor:

5-men @ \$55.00 p/hr		
per man – 4 hours	=	\$1100.00
Eng. Review		<u>\$ 200.00</u>
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
Job Total for 12” Culvert	=	\$2,835.00

Adopted by the Village Board of the Village of Caledonia, Racine County,
 Wisconsin, this ____ day of _____, 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.	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.

WESTERN CULVERT & SUPPLY, INC.

Office & Yard: W324 Delafield Road
Oconomowoc, WI 53066

(262) 569-8666

April 1, 2022

CONTRACTORS PRICE LIST

Page 2

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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Size of Culvert	Estimate Cost
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24"	\$3,044.00
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:	=	<u>\$ 648.00</u>
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Job Total for 12” Culvert	=	\$2,595.80
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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