



# Streets Division

ASPHALT REPAIR AND  
VENDOR INFORMATION

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# HOW TO MAKE A POTHOLE

Main Ingredients

**CRACKS**

**WATER**

**COLD**

**TRAFFIC**

**REPEAT**





# HEAVY RAINFALL LEADS TO MORE POTHOLES

Rainfall Comparison	CY 2017	CY2018	Increase
September-December	12.07"	24.54"	103%
Annual Rainfall	50.99"	66.43"	30%

December Pothole Comparison	#pothole repaired
December 2017	141
December 2018	205
% Increase	45%

45% Increase in potholes for the month of December can be attributed to increased precipitation.

January 2020 – Present = 24"  
Historical Average Jan 3.86" Feb 4.45"  
188% Increase

# POTHOLE REPAIR

## Two Methods of Repair

1. Permanent Repair
  - Hot asphalt with tack
2. Temporary Repair
  - Cold patch (less preferred but necessary)

Repairs are made using pothole truck (pic above) or manually using 7yd dump truck (pic below)



# Temporary Vs. Permanent Repairs

## Cold Patch (Temporary)

- ▶ Used in hazardous situations
- ▶ Damage causing potholes
- ▶ When temperatures are below average for an extended period
- ▶ During the rainy season
- ▶ Does not perform well during cold/rainy season. Hot mix is ideal but cannot be applied during cold/wet conditions.
- ▶ Also used as a temporary repairs during holidays, while hot mix is not made available due to vendor plant maintenance and or temperatures below 35 degree.

## Hot Asphalt Mix (Permanent)

- ▶ Used to replace cold patch with a more permanent repair
- ▶ Used for large areas of asphalt maintenance
- ▶ During the instillation of driveway aprons
- ▶ Only available if the temperatures are above 35 degrees
- ▶ Secondary vendor will run for us if another big project is running and they already have the plant in operation

# Asphalt Vendors:

**Robinson Paving  
Company  
(Primary)**

**C.W. Matthews  
Contracting  
Company, Inc.  
(Secondary)**



# Being proactive:

- ▶ We asked for and received approval during the 2020 budget cycle for a Hot Box, Infrared Table, we are currently awaiting this purchase.
- ▶ During this budget cycle (2021) we have requested an additional asphalt truck as well as additional employees to man this equipment.
- ▶ This spring we will be dedicated to Crack Sealing to avoid further issues in smaller areas of concern. (must be 40 degree or warmer to apply)



# Cold patch Vs. Hot Mix Asphalt

Washed out cold patch repair



Completed repair with Hot Mix repair





# Temporary Cold Patch repair:

THIS IS A TEMPORARY PATCH  
THAT WILL NEED TO BE  
ADDRESSED WITH HOT  
ASPHALT MIX IN THE NEAR  
FUTURE.





# Permanent Hot Mix Asphalt repair:

IDEAL REPAIR WITH HOT MIXTURE/CUT  
AND CONDITIONS WITH A GOOD  
BASE.





# Proactive crack sealing: Spring project 2020

Process:



Finished Product:



# QUESTIONS

