

City of Flint

Service Line Restoration Plan

The following is the process that the City, its program manager and contractor are to follow as close as possible as an attempt to complete all remaining restoration for the residential properties in the City of Flint water system.

- The City and/or the program manager will continue to update the Cityworks work orders for all known properties where restoration has not been fully completed.
- The program manager will use existing and current data to develop the list of homes to place in the work order system.
- As the city, program manager and/or the contractor receives calls or notices from a residential property, the program manager will review all necessary data to determine if they currently in the work order system indicating work is to be completed. If not, a work order will be created.
- Once the work order is created, the contractor will be responsible for contacting the property owner to schedule the work.
- For those homes where all data indicates that restoration work remains, the contractor will perform the necessary outreach attempts to schedule the work.
- The process of verifying remaining work and scheduling the work will continue until all the restoration is completed and documented in the Cityworks database.
- Permanent restoration work is currently on a seasonal suspension for the winter and will resume as soon possible once the weather conditions allow. The date to resume work is not yet known but will be discussed each week at the progress meeting to keep all parties informed of favorable weather conditions.

The following are items that were specifically required to be addressed in this plan:

The program manager is working diligently to gather all data available from previous phases to determine the extent of the remaining restoration. The work includes reviewing existing databases, reviewing previous pay applications to see what has already been

paid for and to perform visual inspections of addresses where work has been previously performed. The number of visual inspections per week will vary depending upon the location in the city, weather conditions other unforeseen items that may arise with scheduling of staff. Typically, the visual inspections will occur Monday – Friday during normal business hours 8-5. Manpower or boots on the ground are currently being utilized to determine the number of homes still requiring restoration. Snow cover has hampered visual inspections.

Material shortage is a large problem in this industry. The contractor has identified suppliers to provide both hard (HMA/Concrete) and soft (topsoil/seed/mulch) materials. However, the availability of these materials cannot be determined this far in advance. Statewide / nationwide there was a shortage of concrete materials in 2022 which in all indications will be a factor again in 2023. The contractor will work directly with the suppliers to schedule delivery of the restoration materials as work is prepped and ready for permanent restoration. Typically, the materials are ordered 1-2 weeks in advance of the required delivery date. In Michigan, the seasonal suspension for performing permanent restoration is mid-November to Mid-April. However, each year is different depending upon how soon the winter weather subsides and the warmer spring weather arrives. There is no way to predict if there will be a shortage in these materials during the 2023 and beyond construction season and therefore they cannot easily be planned for this far in advance of the work being performed. As for the seasonal closure of the asphalt and concrete plants, the dates that they resume work in the spring and then shut down in the winter are not firm dates that can be relied upon. These decisions are made private contractors and based on contracted work and the and weather conduce to produce concrete or asphalt. Each spring, the suppliers of these material look at the weather conditions to determine when it makes the most sense for them to start up the plants and start producing material. The same thing happens in the fall/winter as suppliers look at their current workload and weather conditions to determine when the plants will be closed for the season.

The contractor has continuously indicated that they have the resources to maintain and increase, if necessary, the number of crews working on this project. The quantity of restoration per weeks cannot be fully identified as it depends on what work is required at each address. At each week's progress meeting, there will be a discussion item to discuss the number of crews currently working in the field and the progress they are making. The number of restoration crews cannot be determined at this time. The work involved includes crews that perform hard surface work (asphalt/concrete); soft surface work (topsoil/seed/mulch); fence or other specialty work. The total number of properties that can be prepared and then permanent restoration performed per week could vary so significantly depending upon weather, how far apart the properties are, the type of work being performed, the size of the restoration work needed. For planning purposes, we could project that anywhere from 1 to 100 homes can have restoration completed during a normal work week

The City, program manager and contractor continuously monitor the weather conditions to verify that any day that work is being performed, safety of the workers is at the forefront. Permanent restoration will not resume until the weather conditions improve therefore winter conditions do not specifically apply to this work. The following is a list of specific weather conditions that are monitored which may impact the work of the field crews:

- Rain

- Thunder and Lightening

- Fog

- Cold temperatures that would impact both the workers and equipment

- Extreme hot temperatures that would impact the safety of the workers

If these conditions are identified, work will be halted until such time that the weather conditions improve, and the safety of all workers are no longer a concern. Any work scheduled during stoppage in work will be rescheduled as their earliest convenience of all parties.

Typically hard surface restoration work resumes once the asphalt/concrete plants start producing after their seasonal shut down. This occurs in Michigan around mid-April to

early May. The date of when this occurs has a lot to do with how deep the ground froze during the winter and when the frost thaws out due to warm weather. Soft surface restoration typically resumes around the same time ensuring that grass seed that is planted does germinate with warmer temperatures. The winter seasonal shut down is just the opposite. The hard surface work typically stops in late November due to winter weather. Soft surface restoration shuts down a little earlier MDOT specifications stop the planting of grass on or about October 10 of each year. Cold and freezing conditions do not allow for seed to germinate.

Each residential property where all data indicates restoration work still needs to be completed will receive a door knock and/or call to inform and schedule the work. Public outreach activities will be conducted through the City of Flint's Office of Public Health.

There are still residential properties that need to have restoration performed that reside on major streets. These streets can either be maintained by the City of Flint or the Michigan Department of Transportation. For those properties that front City of Flint maintained streets, there is no specific permit necessary to complete the work. However, the contractor is required to develop a traffic control plan that is approved by the City's Transportation Department a minimum of three days prior to the proposed land closure or detour. Properties that have frontage on MDOT maintained roads, will need a traffic control plan developed by the program manager and submitted to MDOT for approval prior to any work being performed. As weather permits, the contractor will attempt to schedule the work to minimize any traffic control lane closures or detours.

The City has retained the services of a third-party archaeologist to perform the necessary observations for work within the SHPO zone. The contractor will coordinate the work in this zone with the archaeologist to verify that all parties will be on site when work is being performed to document all necessary findings. There is no specific permit that is required to work in the SHPO zone. The only requirement is for a certified archaeologist be present when work is being performed within the SHPO Zone to document what is

disturbed and or encountered. The city has retained the services of a third-party archaeologist to perform this work.