



City of Sanford, Maine

Public Works Department

919 MAIN STREET, SANFORD, MAINE 04073

(207) 608-4150 FAX (207) 324-9166



March 24, 2016

Steven R. Buck, City Manager
City of Sanford and Village of Springvale
919 Main Street
Sanford, Maine 04073

RE: Department of Public Works – Ongoing and Upcoming Projects Snapshot

Dear Steve,

As requested, the Department of Public Works has assembled a list of upcoming construction, engineering, and maintenance activities currently underway for the spring season of 2016.

Construction:

- Brook Street (from River to Cottage Street) has been targeted for reconstruction. DPW Open House on 3/24. Concurrent work with Sanford Sewerage District and Sanford Water District. Scope of full reconstruction: full-depth roadway and sidewalk replacement. Work likely to commence in April.
- Milton Avenue (from Main Street/Route 109 to cul-de-sac) has been targeted for preventative maintenance in the form of a ½” chip seal pilot program. DPW Open House on 3/25. Work likely to commence in April;
- Chancery Lane (from Milton Avenue to cul-de-sac) has been targeted for preventative maintenance in the form of a ½” chip seal pilot program. DPW Open House on 3/25. Work likely to commence in April;
- Jack Lane (from Milton Avenue to Old Mill Road) has been targeted for preventative maintenance in the form of a ½” chip seal pilot program. DPW Open House on 3/25. Work likely to commence in April;
- Rankin Street, Springvale (from Main Street/Route 109 to dead end) has been targeted for preventative maintenance in the form of a ½” chip seal pilot program. DPW Open House on 3/28. Work likely to commence in April;
- Hanson’s Ridge Road, Springvale (from Oak Street/Route 11A to Deering Neighborhood Road) will receive the final HMA pavement course and driveway connections. Work likely to commence in May;
- Berwick Avenue: (from Twombly Road to Lebanon Street) has been on the Department’s radar since 2014. The east side of the roadway needs to be reconstructed pending test pits for subgrade analysis. Sanford Water District is interested in concurrent work on Berwick Court. The existing sidewalks are very narrow and do not meet ADA requirements. There is one significant retaining wall that is in the process of an overturning failure that will need to be addressed as part of the project. Attempts at contacting the owner have not been successful to date.
- Crack Seal: The annual crack seal program begun last year and managed by M. Casserly will continue in 2016. Arterials and collectors in need of crack seal will be targeted this year along with some of the initial



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remaining program from 2015. The arterials and collectors will likely require a police detail as part of the work zone traffic control package as required by Ordinance. This program is targeted for the late summer/early fall again.

- Medium-Sized Drainage Projects: As the Department has divided our forces over the last two seasons between emergency response/small project strike teams (primarily led by P. Smith) and full roadway construction (primarily led by J. Goodwin), a handful of medium sized projects have fallen by the way side as a result. Should the scope of these projects exceed the Department's capabilities and schedule, the hiring of Contractors has been seriously considered.
 - Normand Avenue: A large drainage structure is in the process of undermining via an adjacent sinkhole. The DPW stabilized the sump early in the winter with flowable fill concrete. The existing structure with seven (7) pipe connections will need to be replaced with a structure as large as eight feet in diameter (TBD).
 - Tebbets Avenue: A low point that was pre-existing for the 2014 mill-and-fill performed by MaineDOT is an ongoing slick icing winter maintenance issue. DPW will likely need to connect to the drainage in Tebbets Avenue approximately 300 feet away and potentially address other parts of the closed drainage system in order to correct this condition.
 - York Street: A low point that was pre-existing for the 2014 mill and fill performed by MaineDOT is an ongoing slick icing winter maintenance issue. DPW will likely need to connect to the drainage nearby in Main Street in order to correct this condition.
 - Kirk Street: The drainage condition from the street is currently flooding a Resident's lawn and basement. A small F-Basin constructed within the ROW would drain the road and alleviate the issue.
 - Javica Lane: Storms with significant rainfall are causing a washout of a Resident's driveway and lawn towards Bauneg Beg Pond. A dry-well constructed adjacent to the road in the ROW could intercept a majority of this flow and attenuate the water. This had been delayed previously due to Resident concerns and appears to be reconciled.
 - Goodall Brook: The Goodall Brook Watershed Management Plan, as adopted by the City Council, has received the first grant award towards some of the spot treatments of the watershed. The City is primarily participating in the process through matching personnel time and the devotion of its construction fleet for heavy construction efforts as recommended in the proposal. Identification of contributing drainage systems (as mentioned below) is a valuable addition to the management plan.



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Inter-Departmental Coordination:

- DPW will be performing construction in two locations as coordinated with Parks and Recreation for improvements:
 - The circular concrete fountain area (not functional) in Benton Park on Roberts Street will be demolished and removed. The water service will be located and terminated below grade. The area will be loamed and seeded to grade.
 - The storm drainage line under the basketball court on Oak Street opposite Bradeen Street has somehow led to the collapse of the paved court surface. DPW has worked with the Sanford Sewerage District to clean out and scope the line without determining the cause for failure. The line will be excavated and repaired to perpetuate the closed drainage system.
 - An open channel ditch flow in Gowen Park has been requested to be replaced with a culvert instead. M. Hill will review with MaineDEP to determine what level (if any) of permitting will be required.
- Trail Improvements: The DPW is coordinating with the Trails Committee to relocate and improve the trail beside the DPW yard that runs from Pioneer Avenue to School Street. This involves the clean-up of significant scrap materials that had been stockpiled against the fence for years so that the trail can come onto DPW property and further away from the Mousam River.

Engineering:

- Smoke Testing. The DPW, in partnership with Sanford Sewerage District, will be performing a utility verification test of the sewer systems downtown. Work likely to commence April 4, 2016 (weather permitting);
- Grammar Road: Tree clearing, stumping, and embankment stabilization. Winter ledge probes along the roadway indicate that water is being trapped in “bathtub” effects along the corridor leading to consistently premature failure of the road surface. DPW’s current efforts include identifying potential drainage outlet locations and contacting individual property owners to seek drainage easements to alleviate this condition and drain the road base. This project will probably not go to full construction in 2016.
- Intersection of Route 109/Main Street and Old Mill Road: The City conducted an initial Public meeting for abutters and stakeholders of the noted intersection. Draft meeting minutes have been prepared for comment concerning the relocation of the Sanford Plaza signal to Old Mill Road. Several abutters still need to be contacted for coordination and mitigation discussions including Marden’s, Save-A-Lot, and TD Bank. The meeting attendees were able to reach a proposed layout consensus that, with the agreement of the remaining stakeholders, would need to be vetted through MaineDOT and their traffic consultant.
- Hay Brook Bridge: DPW has contacted Contech, a recognized leader in the pre-fabricated concrete culvert and bridge industry, in order to begin scoping and estimating costs for replacement of the Hay Brook Bridge on Bernier Road between Sanford and Alfred. Preliminary estimates discussed with MaineDOT were on the order of \$250,000. Details, specifications, and an estimate has been received on the steel for the substructure leaving needed information for the superstructure (deck), the abutments (including geotechnical analysis for bearing capacity), and the cost for construction still outstanding.



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- Roadway Inventory: DPW has independently verified the complete list of streets and roads in Sanford and Springvale as initially provided by the Beta Group. The list was checked against the Sanford GIS system, Google Map, and the actual street sign names. The BETA group will begin their inventory effort in April, gather and process the data, and present their findings to the Council in the fall or early winter of 2016.
- Drainage Inventory Proposal: A comprehensive inventory of the City's closed drainage systems including location, connectivity, and catch basin condition was recently solicited to vendors. The preferred vendor will be recommended to the Property Subcommittee at the March 29, 2016 meeting with the inventory work likely to span the better part of the next two years if accepted. Much of the City's drainage infrastructure is near or at its expected lifespan and a complete inventory will help to identify issues before they become major problems.
- Thompson Street: The City is reviewing several requests to address pedestrian and student safety concerns at the Lafayette School in Sanford along Thomson Street. The Department will be making a formal recommendation at the next Property Subcommittee meeting on March 29, 2016.
- Road Postings: With the unusual warm weather, the Department has been considering lifting the 2016 Road Posting Program early this year. Once daily fluctuations of temperature stop dropping below freezing consistently, the Department will likely end the program for the season.
- Technical Manual: The Department is hosting a job shadow student from Sanford High School for 3 hours a week who is assisting on the preliminary organization of a technical construction manual for the City of Sanford. It is envisioned that this effort will eventually coincide with updates to the City's Comprehensive Plan and Ordinances.

Facilities:

- Garage Office and Bathroom Renovations: A mandatory pre-bid meeting was held on March 22, 2016 and six (6) Contractor's representatives were in attendance. All aspects of the work were reviewed and an addendum will be issued after the close of questions at 2:00 pm on Friday March 25, 2016. One unexpected aspect is that one Contractor identified the existing ceiling tile and entry way as containing asbestos. DPW has contacted Abatement Professionals (who were recommended in the Invitation to treat the floor tiles) to verify the presence of asbestos, provide an estimate for abatement cost, and provide a timetable for the work. This information will be available as part of the project addendum for bidder's consideration.
- Parts Room Reorganization and DPW Software Implementation: Garage and Highway personnel tore down the existing parts rooms (upstairs and downstairs) and rehabilitated the space to accommodate new shelves bought with the proceeds of last year's equipment auction. The Department solicited and implemented the DataTrac software to inventory all parts in stock. The DataTrac system will also serve to manage garage work orders, schedule inspections and preventative maintenance, and eventually track many aspects and functions of the Department.



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- Transfer Station:
 - The floor of the Hazardous Materials building is sagging and unable to support heavy loads for much longer. The Department will be reaching out to a carpenter in the near future to repair the floor.
 - The overhead canopy for the Bulky Waste 40-yard roll-off canister will be constructed at the Transfer Station in order to prevent rain and snow from entering the canister. The canister is hauled and the City charged by the weight, so it has been estimated that the canopy will pay for itself in approximately two years.

Routine Roadway Maintenance:

- Street Sweeping Schedule: The spring street sweeping effort is off to an early start with the fair weather. The schedule has been posted on the DPW web site and will take most of April and May 2016.
- The roadside mower will be back online with the spring season.
- The Bergkamp FP5 Flameless Pothole Patcher will be running Hot Mix Asphalt (HMA) as soon as the plants re-open (likely April). DPW had to resort back to the cold patch product over the winter due to the logistics of correctly preparing a pothole for treatment took 30-45 minutes each on average. At that rate, a full 5-tons of HMA would have to sit in the unit too long to be usable. However, the unit was able to heat the cold patch resulting in better performance of the product in place over the winter.

Please contact me if you have any questions, comments, or concerns.

Sincerely,

A handwritten signature in blue ink that reads 'Matthew E. Hill, P.E.'.

Matthew E. Hill, P.E.
Director of Public Works

Cc: S. Lord, M. Casserly, P. Smith, J. Goodwin, D. Cabana, R. Davis, N. LeBrun, A. Burbank