



CITY OF KIRKLAND
Department of Public Works
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MEMORANDUM

To: Kurt Triplett, City Manager

From: Rod Steitzer, P.E., Capital projects Supervisor
Dave Snider, P.E., Capital Projects Manager
Kathy Brown, Public Works Director

Date: February 19, 2015

Subject: NE 85TH STREET UTILITY UNDERGROUND CONVERSION – ACCEPT WORK

RECOMMENDATION:

Staff recommends that the City Council:

- Accepts the work for the NE 85th Street Utility Underground Conversion Project, as constructed by Tri-State Construction, Inc., Bellevue, WA, and establish the statutory lien period, and
- Receives an update for the NE 85th Street Corridor Improvements Project.

BACKGROUND DISCUSSION:

Overview

The NE 85th Street Underground Conversion Project is a project within the overall NE 85th Street Corridor Improvements Project, which is the largest combined non-building Capital Improvement Program (CIP) project ever undertaken by the City of Kirkland. The NE 85th Street Corridor Improvements Project consists of eight separate subprojects listed in Table 1 below. These individual subprojects each have their own separate CIP project number. Attachment A is a vicinity map, indicating the location of each subproject within the overall NE 85th Street Corridor Improvements Project.

Table 1 – NE 85th Street Corridor Improvements Project Status

| Reference Number | Project Number | Project | Status |
|-------------------------|-----------------------|---|-------------------------------|
| 1 | NM 51 | Rose Hill Business District Sidewalks | Currently under construction |
| 2 | TR 78 | NE 85 th Street & 132 nd Ave NE Intersection Imp. | Currently under construction |
| 3 | TR 79 | NE 85 th Street & 114 th Ave NE Intersection Imp. | Complete |
| 4 | TR 80 | NE 85 th Street & 124 th Ave NE Intersection Imp. | Currently under construction |
| 5 | ST 06002 | NE 85 th Street One-Time Overlay | To be Completed 2015 |
| 6 | SD 25 | NE 85 th Street Detention and Sediment Control | Currently under construction |
| 7 | WA 140 | NE 85 th Street Watermain Replacement | Currently under construction |
| 8 (this memo) | ST 75 | NE 85th Street Utility Conversion | Construction Completed |

NE 85th Street Utility Underground Conversion Project Acceptance

As mentioned above, the Council action proposed in this memorandum is the acceptance of work for the NE 85th Street Utility Underground Conversion Project (hereafter referenced as the UG Project), which is Project 8 in Table 1 above. The scope of work for the UG Project included:

- 1) Undergrounding of overhead power and communications lines on NE 85th Street, between 120th and 128th Avenues NE; and,
- 2) Installation of conduits for future undergrounding along the same corridor, between 128th and 132nd Avenues NE.

At the regular meeting of December 12, 2011, the City Council awarded the UG Project to Tri-State Construction, Inc. in the amount of \$1,976,711.52. Construction began in February, 2012 and was completed in February, 2013. The total amount paid to the contractor was \$1,936,441.06, which includes one change order of \$32,971.88 for additional work due to utility conflicts resulting from unknown existing site conditions, for a net construction contract reduction of \$40,270.

Under the terms of the City's franchise agreement with Puget Sound Energy (PSE), there is a cost sharing of certain other expenses incurred by PSE for the conversion work, including costs for its cabling material, equipment and labor. As per that agreement, the City contributes 40% of those related costs while PSE pays 60%. There are no such agreements with the other utility companies; however, throughout the design and construction phases, staff worked closely with all utility providers, including Frontier Communications, Comcast and Seattle Public Utilities on all right-of-way coordination and construction sequencing needs for the project. With all right-of-way, consultant, and contractor expenses known, staff continues to finalize all cost sharing debits and credits with PSE and the City's final cost sharing contribution towards all conversion work is currently estimated to be \$480,500 (representing the 40% share). With that obligation added to the other known expenses, all Project costs are tracking to come in at or below the approved total project budget of \$2,691,400.

NE 85th Street Corridor Improvements Project – Status Update

A brief status of the overall NE 85th Street Corridor Improvements Project is summarized below:

- The NE 85th Street & 114th Avenue NE Intersection Improvements (Project 3) is complete with video control functioning in the newly constructed Transportation Management Center (TMC) at City Hall.
- The Rose Hill Business District Sidewalks (number 1, Table 1) is a two-phased project with the construction of the first phase complete and work accepted at June 17, 2014 City Council meeting.
- The construction contract for the transportation, surface water utility, and water utility elements of the NE 85th Street Corridor Project (numbers 1, 2, 4, 6, and 7 Table 1) was awarded on June 17, 2014 and is currently under construction. A more detailed description of this ongoing work is provided below.
- The final project, the NE 85th Street One-Time Overlay Project (number 5, Table 1), which is funded in part through state and federal grants, is scheduled for completion in

2015. The overlay project includes the final channelization improvements for the corridor and will be constructed under a separate construction contract.

The physical installation of the new watermain (number 7, Table 1) material for has been substantially completed and the new system is currently undergoing pressure testing and system purification processes. It was anticipated the new main line and associated appurtenance testing would take approximately three weeks to complete, utilizing a combination of night and day-shift work efforts; however, as of the writing of this memo, the contractor has been unable to achieve a successful test for certain sections of the new pipe. Staff continues to work with the contractor and their pipe material supplier in finding a solution acceptable to the City. Presently, even with the current pressure testing delay, the contractor technically remains on or close to the original water installation schedule due to the high level of pipe laying production achieved during installation operations. Staff will report back to City Council if the contractor's schedule become significantly impacted or if major replacement of defective pipe, if any, is found to be necessary.

With a successful pressure test, the future tie-in of the new main to the City's water system will require a complete shut-down of the existing NE 85th Street watermain and, in order to minimize customer impacts, water shut-offs are scheduled to occur late at night. Shut-off notices are provided 48 hours in advance to all impacted customers. The new watermain, which will provide domestic water and fire suppression to thousands of Kirkland water utility customers, is scheduled to go on-line by mid-April.

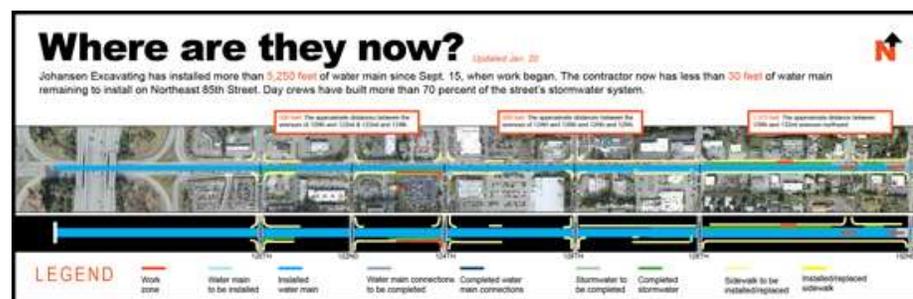
The contractor's day crews have also begun curb and sidewalk removal in preparation for the installation of storm water improvements. The current schedule for the new storm water improvements plans for that work to be complete by May. Immediately following the storm system improvements, the contractor will begin work on constructing the new concrete curb and sidewalk, along with other surface improvements. The sidewalk work will start on the north side of NE 85th Street to provide for the earliest available and continuous pedestrian pathway. Once the north side sidewalks are usable, demolition and sidewalk construction work will begin on the south side of NE 85th Street.

The signal and illumination improvements at 124th and 132nd Avenues NE will begin ahead of the sidewalk work and those activities are now scheduled to begin in mid-March. The completion of all corridor improvements remains on schedule with project substantial completion anticipated to occur in the third quarter of 2015.

Overall Project and Public Outreach Overview

Staff continues to provide regular outreach updates to business owners and residents regarding the overall progress of the Corridor Project, its individual project locations, and all of the various

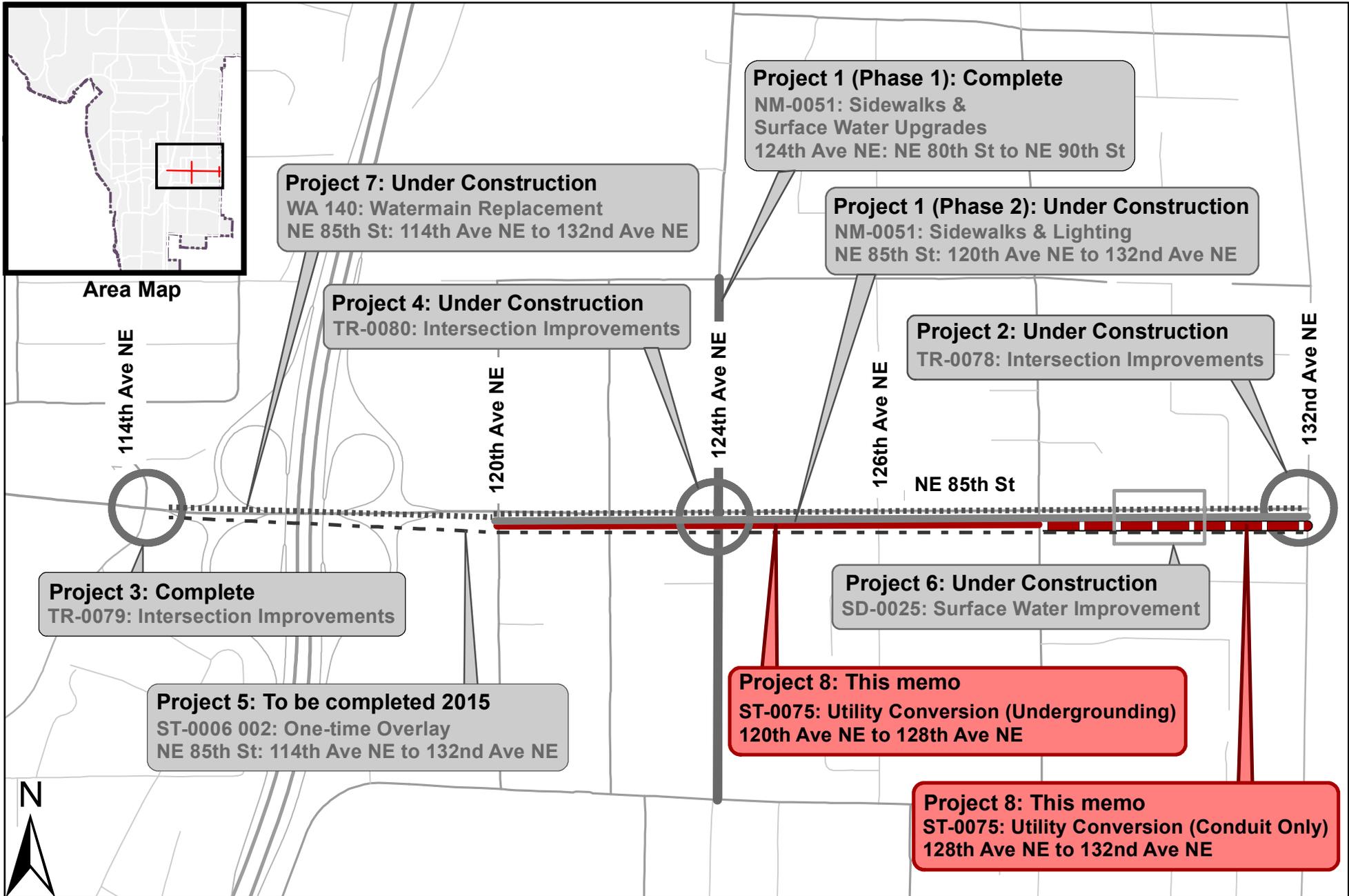
project phases. Outreach information includes the *Project Update*, which staff has mailed directly to more than 500 businesses and residents near the corridor, direct emails to all businesses along the corridor, and the overall project [website](#) that presents in-depth daily progress and schedule updates.



Project outreach staff has also devoted time to a half-dozen local residents with regular conversations concerning nighttime construction noise issues. Based on the noise complaints received, staff has continually worked with the contractor in an effort directed towards mitigating specific noise generating activities. For example, the City has directed the contractor to correct some worker actions, such as banging of dump truck tail gates and the sliding of steel sheets across the pavement. For those residents who live nearest the late night work activities, City staff has offered several mitigation options: reimbursement for overnight hotel accommodations; white noise machines; and ear plugs. To date, no residents have accepted any of these options.

As the nighttime activities come to an end, staff is focusing on communications related to anticipated traffic impacts commensurate with daytime operations.

Attachment A: Vicinity Map



Vicinity Map
NE 85th Street Corridor Improvements
Utility Underground Conversion Project