



MEMORANDUM

TO: Honorable Mayor and City Council, Project Management Team
c/o Jeff Hulsether, PE – City Engineer

FROM: Scott D. Hedlund, PE, PMP

DATE: June 16, 2016

RE: Brainerd Lakes Regional Airport Utility Extension
Bi-Monthly Project Status Update
SEH No. BRDMN 131759 20.00

The following is an update on the status of the Construction Phase of the project:

- I. Construction Progress
 - A. Construction started April 11, 2016 in the Lum Park area.
 - B. Horizontal Directional Drilling (HDD)
 1. Area 1
 - a. 12-inch gravity sanitary sewer under Lum Park Road has been installed.
 - b. 6-inch sewer force main between Pine Shores Road and Jordan Road has been installed.
 - c. 12-inch water main between the new booster station site in Lum Park and 13th Avenue NE, and along 13th Avenue NE between I Street and TH 210 has been installed.
 - d. **16-inch water main under Lum Park Road has been installed.**
 - e. **16-inch water main along TH 210 between Pine Shores Rd and approximately 600 feet east (Station 60+00) has been installed.**
 - f. **12-inch gravity sewer along TH 210 between Lum Park and Ash Ave (between manholes SS4 and SS7) has been installed.**
 2. Area 2
 - a. 6-inch sewer force main pipe has been installed.
 - C. Jack Bore Steel Casings Under TH 210 (Project Area 1)
 1. Sewer and water crossings approximately 400 feet east of Lum Park Road
 - a. Casing and sanitary sewer carrier pipe have been installed.
 - b. **Casing for water main started, hit boulder obstruction 50 feet on 6/10/16. (1) Reviewing options to resolve including pressure grouting.**
 2. Water crossing at Ash Ave
 - a. **Casing and carrier pipe have been installed.**

3. **Water crossing at Wonderland Park Road cul-de-sac**
 - a. **Casing and carrier have been installed.**
 4. **Sewer and water crossing at Jordan Road**
 - a. **Planned to start in July.**
 - D. **Open cut sewer and water (Project Area 1)**
 1. **12" sanitary from Lum Park Road up to manhole SS 3 has been installed.**
 2. **Plan to set manholes SS 3 and SS 4 starting 6/16/16 including pipe connections.**
 3. **16" water main between Lum Park Road and TH 210 has been installed up to the jack bore pit.**
 4. **Backfilling and restoration of pipe trenches between Lum Park Road and TH 210 north jack bore pit planned to start 6/17/16.**
 5. **Ongoing open cut sewer and water pipe, manholes, valves, hydrants, and tie-ins.**
 - E. **E Street open cut sewer (Project Area 3)**
 1. **Between League Avenue NE and 8th Ave NE has been completed.**
 2. **Remainder of sewer work east of 8th Ave NE and street restoration work west and east of 8th Ave NE is planned to be completed by the end of June.**
 - F. **Lum Park lift station/booster station site (Project Area 1)**
 1. **Ongoing dewatering operations to complete deep lift station wetwell structure, junction manhole, and sanitary sewer pipe installation and connections.**
 - a. **Pipe and manhole work is planned to be completed in the next 2 weeks.**
 - G. **Jordan Road lift station**
 1. **Installation is planned to start mid-July.**
 - H. **Dewatering**
 1. **Ongoing dewatering operations at various locations.**
 2. **Two property owners on northwest side of TH 210, east of Wonderland Park Road continue to be connected to a temporary above ground water system served from existing water main on Wonderland Park Road.**
- II. **Construction Schedule/Staging**
- A. **The Contractor has conveyed the following general construction schedule/staging plans (subject to change):**
 1. **Complete most of the work in the Lum Park area outside of the lift station site by the end of June.**
 2. **Ongoing booster and lift station site construction in Lum Park.**
 3. **Continue pipe installation in Area 1 along and under TH 210 generally moving east from Lum Park.**
 - a. **Jack bores are planned to continue through early September.**
 - b. **HDD work is planned to continue through August.**
 - c. **Ongoing open cut manhole, pipe, and tie-in work.**
 4. **Area 2 work is near substantially complete, testing remains.**
 5. **Complete E Street work between League Avenue and 9th Ave (Area 3) by the end of June.**
 6. **Start sewer lining on E Street west of League Avenue (Area 4) in July.**
 - B. **To help address the consultant team's observations that the Contractor's original schedule may be slipping, SEH created a computer generated sequencing and scheduling plan from the first two schedules submitted by the Contractor, shared them with the Contractor, and discussed with the project team.**
 1. **With Application for Payment No. 2, SEH implemented the changes/updates the Contractor wanted into an updated sequencing and scheduling plan dated June 13, 2016 and distributed to the project team.**
 - a. **This will be the planned process each month as the project moves forward.**

III. External Communications

A. **The latest monthly project update construction newsletter to property owners along the project corridor was mailed out June 9th.**

B. Project website → <http://www.sehinc.com/online/brd>

1. Has monthly construction project update newsletters, project location map, PMT meeting minutes, City update memos, and basis of design report available for viewing and download.

IV. Overall Schedule

A. Construction

1. City Council Award Construction Contract: February 22, 2015
2. Notice To Proceed: March 17, 2016
3. Preconstruction Conference: April 5, 2016
4. Started Construction: April 11, 2016
5. Weekly Construction Progress Meetings: Tuesdays at 9:30am, Lum Park (subject to change)
6. Contract Construction Substantial Completion Date: October 21, 2016
7. Contract Construction Final Completion Date: December 14, 2016

V. Budget Status

A. Construction Contract (low bid Tom's Backhoe Service): \$8,591,721.58

1. Applications For Payment

a. **Work Through 5/31/16:**

(1) **Work Certified (including Materials Stored On-Site): \$1,369,366.94**

(2) **Retainage (5%): \$68,468.35**

(3) **Total Amount Eligible for Payment: \$1,300,898.59**

b. **Payment #2 for \$842,075.11 is planned for City Council approval on 6/20/16.**

2. Change Orders:

a. Change Order No. 1 for \$9,750 for adding a necessary sewer force main air release manhole at the intersection of 13th Avenue NE and I Street was approved on 5/16/16.

b. **Future Change Orders related to the jack bore steel casing installations is anticipated for the following reasons:**

(1) **Need to extend casing lengths at 3 locations (Wonderland Park Rd cul-de-sac, Jordan Road, and near CR 142) to address private utility conflicts.**

(2) **Addressing boulders in casing paths at Lum Park crossings.**

B. Consultant budget (construction):

1. Approved construction services contract: \$623,092.00.

2. **Invoiced to date: \$160,897.08.**

3. Scope changes:

a. The intensity of construction observation needed to date is higher than assumed for the consultant contract; contractor has been working at times 6 days a week during daylight hours and his schedule appears to be slipping; consultant contract is hourly and will continue to be monitored; a fee amendment request would be brought forward in the future if at such time overall construction observation hours are projected to be exceeded.

Attachment – project location map
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BRAINERD AIRPORT UTILITY EXTENSION

BRAINERD, MINNESOTA

PUBLIC IMPROVEMENT NUMBER 14-15

PLAN REVISION SUMMARY			
1	JLS	01/12/16	ADDENDUM 1 - COMPLETE SET
2	BDY	03/28/16	ADDENDUM 2 - 01C3,01P6,01P8,01E16,04C2
3	BDY	03/28/16	ADDENDUM 3 - 01C3,004,001,01E13,01E15,001,01C3,01C8,01C13,01C19,04C2
4	BDY	03/28/16	ADDRESS MDH PLAN REVIEW COMMENTS - 01C5,01C11,01C21,01P2,01P3,02C4,02C5



Know what's below.
Call before you dig.



CONSTRUCTION DOCUMENTS

PROJECT LOCATION



BRAINERD, MINNESOTA

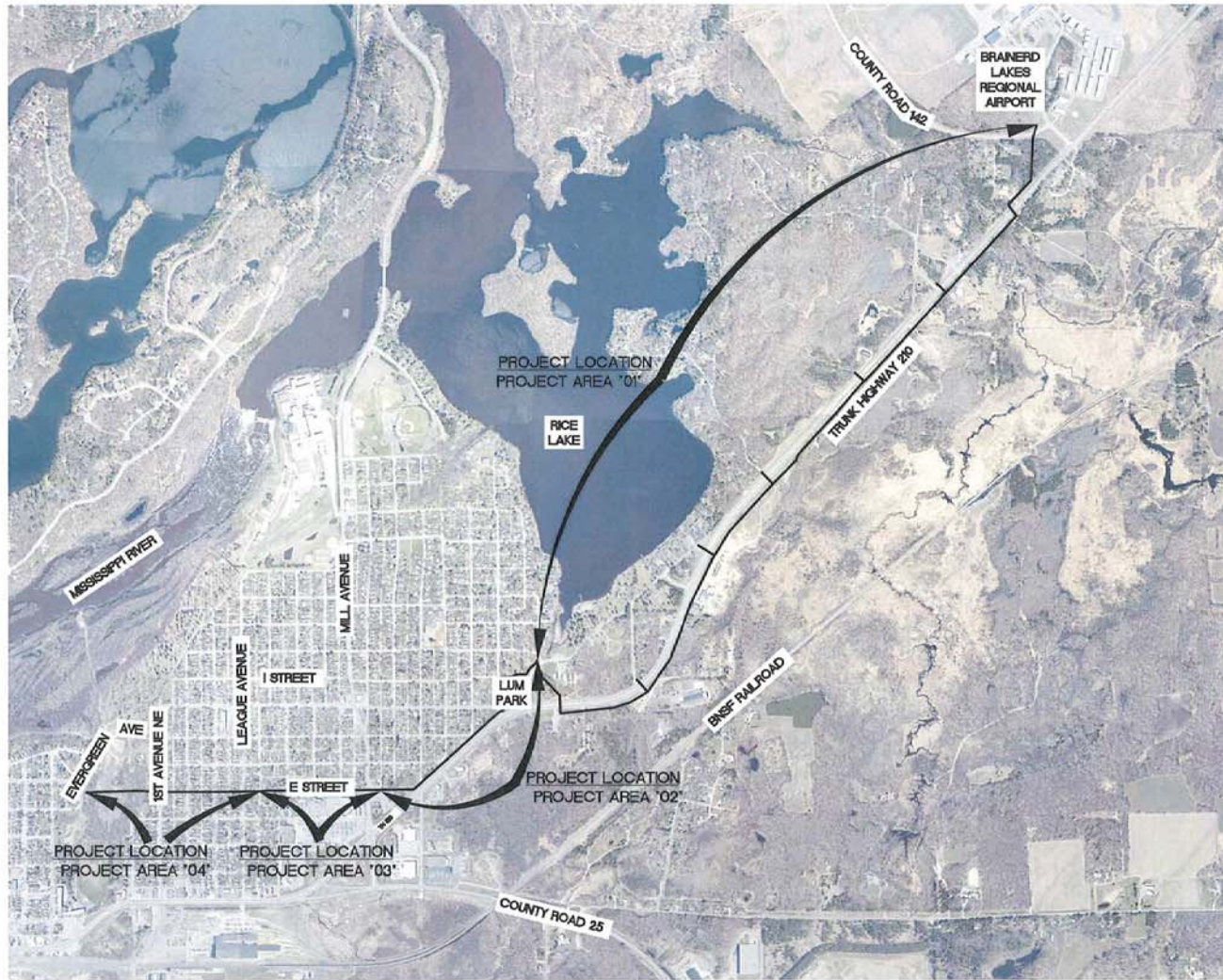
CITY OFFICIALS

MAYOR _____ ED MEIK
 CITY ADMINISTRATOR _____ JIM THOREN
 CITY COUNCIL _____ SUE HILGART
 _____ MARY KOEP
 _____ CHIP BORKENHAGEN
 _____ DAVID PRITSCHET
 _____ KELLY BEVANS
 _____ GARY SCHEELER
 _____ GABE JOHNSON
 CITY ENGINEER _____ JEFF HULSETHNER
 PUBLIC UTILITIES _____ SCOTT MAGNUSON

APPROVED: *Jeffrey M. Anderson* 12-21-15
 CITY ENGINEER DATE

Scott D. Hedlund 12-21-15
 PROJECT MANAGER DATE

Don W. Dine 12-21-15
 PROJECT ENGINEER DATE



NOTE:
 THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL 0. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-92 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
 THE CONTRACTOR SHALL CALL THE GOPHER STATE ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.

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