MEMORANDUM

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

FROM: Scott D. Hedlund, PE, PMP

DATE: October 31, 2016

RE: Brainerd Lakes Regional Airport Utility Extension
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. All pipe has been installed.
         b. Ongoing open cut grade correction work on 12-inch gravity sanitary sewer under Lum Park Road with detour.
            (1) This work is planned to be completed in November.
         c. Ongoing flushing and testing.
      2. Area 2
         a. 6-inch sewer force main pipe has been installed.
            (1) Flushing and testing remains.
   C. Jack Bore Steel Casings Under TH 210 (Project Area 1)
      1. All planned jack bore steel casing work is complete
   D. Open cut sewer and water (Project Area 1)
      1. All pipe has been installed with the exception of storm sewer at the Lum Park Booster/Lift Station Site.
         a. Storm sewer is planned for installation in November.
      2. Ongoing flushing and testing.
   E. E Street open cut sewer (Project Area 3)
      1. All planned sewer has been installed including grade repairs east of 8th Avenue NE and street restoration.

a. There is a pending change order for grade repairs to the sewer east of 8th Avenue NE due to grade issues with the existing pipe the new pipe connected to.

b. Final televising of the repair segment east of 8th Avenue NE remains.

F. Lum Park lift station/booster station site (Project Area 1)

1. Underground sewer and water piping has been installed.

a. Testing remains.

b. Ongoing grade corrections to the gravity sewer under Lum Park Road that connects SS 1 and 2, anticipated completion in November 2016.

2. Booster station building has been delivered and set on foundation.

a. Ongoing electrical work.

3. Lift station wetwell and valve vault are installed.

a. Electrical work remains.

4. Site grading and storm sewer work remains.

5. Curb and street restoration remains.

a. Paving of booster station site remains

G. Jordan Road lift station

1. The wetwell and valve manhole are installed.

2. Electrical work remains.

H. Dewatering

1. Ongoing dewatering operations in the Lum Park Road/ 15th Avenue NE area for sewer grade repair work.

2. Tom's Backhoe has been working with Minnesota Department of Natural Resources (DNR) submitting weekly pumping data etc for the project dewatering permit.

a. The DNR issued a cease and desist order to stop dewatering that affects Whiteley Creek on August 8th until the permit details get resolved.

b. There has been no further correspondence from the DNR.

3. 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.

a. On October 17, 2016 the City Council approved drilling new wells for each resident.

b. Installation of the wells is planned for early November 2016.

I. Cured In-Place Pipe (CIPP) work (Project Area 4) on E Street west from League Ave NE

1. Lining of the existing sanitary sewer and manhole rehabilitation work has been completed.

2. Televising remains.

II. Construction Schedule/Staging

A. The Contractor has conveyed the following general construction schedule/staging plans (subject to change):

1. There are pavement and turf restoration work items that will carry over to 2017, but the Contractor's plan is still to substantially complete the project in 2016.

a. Significant amounts of testing remain including:

(1) Water main: hydrostatic pressure testing, conductivity testing, flushing, disinfection, and bacteriological testing

(2) Force main: flushing, hydrostatic pressure testing, tracer wire testing.

(3) Sewer main: flushing, cleaning and televising, pressure testing

(4) Lift stations (2): startups and controls testing

(5) Booster station: startup and controls testing

(6) Some types of testing will need to be suspended over winter if not completed in the near future.

b. There may be additional finish grading of topsoil and re-seeding areas in the spring.

B. The Anderson Brothers Construction facility needs to connect to the new trunk water system in conjunction with the City having their two existing wells sealed prior to the City utilizing the new trunk sewer per MDH permit requirements.

C. 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 has been the process each subsequent month as the project has moved forward.

2. On August 29, 2016 the Contractor submitted a 46-day Contract Time Extension request.
   a. SEH responded September 1, 2016 with a request for clarification.
   b. On October 18, 2016 the Contractor submitted additional information including additional time extension.
   c. SEH is in the process of reviewing the request.

III. External Communications

A. The latest monthly project update construction newsletter to property owners along the project corridor was mailed out July 15th.

B. A separate mailing to Area 4 property owners only went out June 24th advising that sewer lining work on E Street is planned to start in the next few weeks.

C. A separate mailing to Area 1 property owners west of TH 210 off the Pine Shores Road/ Jordan Road loop was mailed out July 15, 2016 advising that the Pine Shores Road access to TH 210 would be closed for 7 – 10 days starting on or around July 18th to facilitate utility construction, and that there will be a posted detour and guide signs.

D. 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 9/30/16:
      (1) Work Certified: $5,692,565.80
      (2) Retainage (5%): $284,628.29
      (3) Total Amount Eligible To Be Paid To Date: $5,407,937.51

b. Payment #6 for $1,329,047.22 was approved by the City Council on 10/17/16.

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. Change Order No. 2 for -$775.00 for combination of adding casing lengths in certain areas to avoid existing private utilities and a credit for reducing casing diameters for all 8-inch water main carrier pipe was approved by the city council on 7/5/16.
   c. Change Order No. 3 for $88,037.50 for addressing a boulder obstruction in the Lum Park / TH 210 jack bore steel casing installation by switching installation methods was accepted by the city council on 8/15/16.
   d. Change Order No. 4 for $27,490.00 for removal of buried concrete rubble along TH 210 water main trench through Anderson Brothers Construction's yard was accepted by the city council on 8/15/16.
   e. Change Order No. 5 for -$260,792.93 for eliminating the gravity sewer between manhole SS#10 and Pine Shores Road due to buried concrete rubble making directional drilling infeasible was approved by the city council on 7/18/16.
   f. A future change order related to extra time spent by the jack/bore subcontractor at the jack bore steel casing installations addressing boulders in casing paths at Lum Park crossings is anticipated.
   g. A future change order for contract time extension is anticipated.
   h. A future change order for sewer grade correction work on E Street due to issues with the existing sewer stub downstream of the project connection point is anticipated.

B. Consultant budget (construction):
   1. Approved construction services contract: $692,732.00.
   2. Invoiced to date: $489,733.10.
   3. Scope changes:
      a. There are no unapproved scope changes at this time.
      b. The consultant contract is hourly and will continue to be monitored.

Attachment – project location map
sh

p:\ae\b\brdmn\131759\2-proj-mgmt\monthly status memos\m seh to pmt brd airport utility ext project status memo 103116.docx

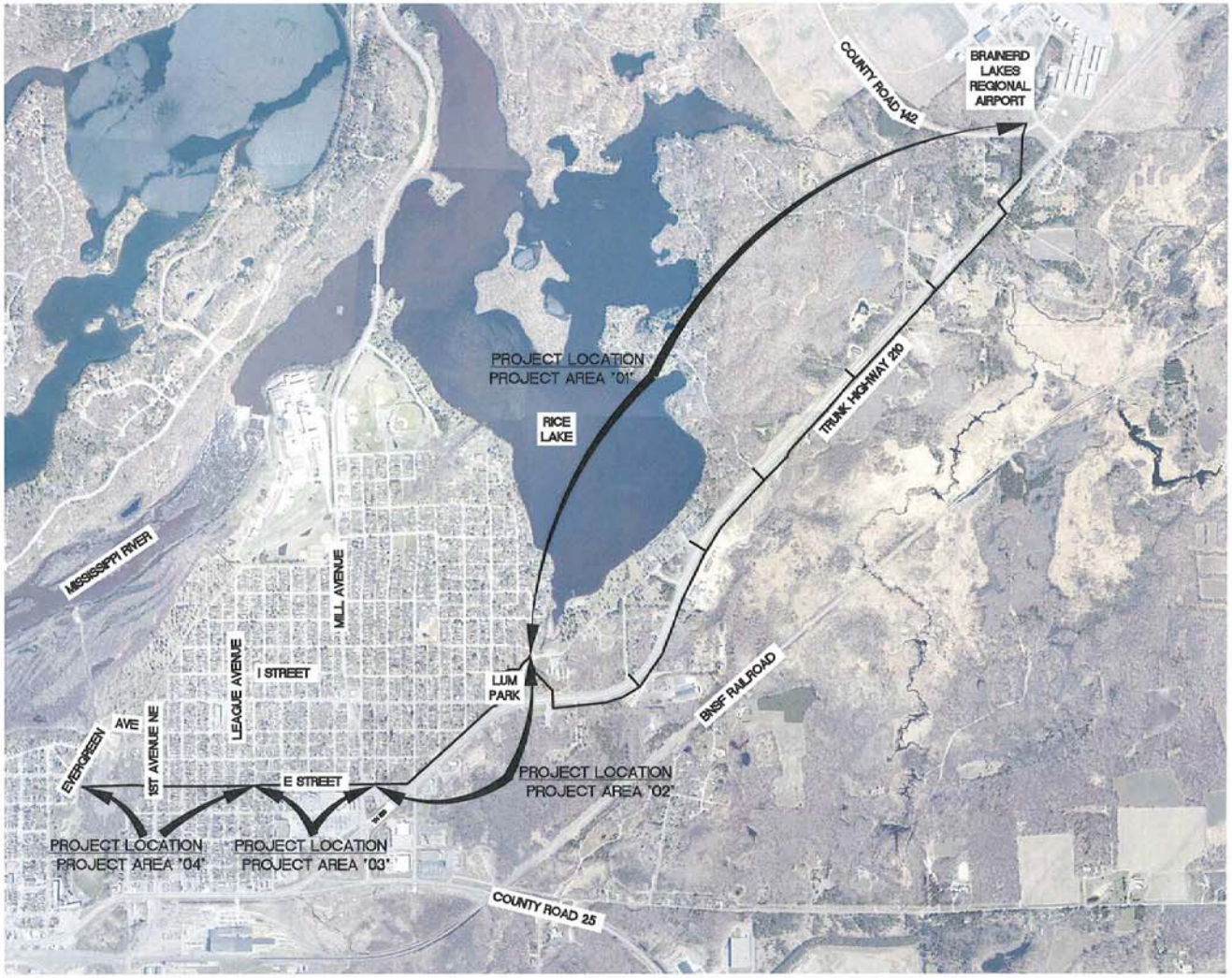
BRAINERD AIRPORT UTILITY EXTENSION

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 – GG3,01P6,01P8,01EL6,04G2
3	BDY	03/28/16	ADDENDUM 3 – GG3,GG4,G01,01EL3,01EL5,G01,01C3, 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.



N

N.T.S.

CITY OF BRAINERD

SEH

WENTH SMITH MOLTING

BPU

CONSTRUCTION DOCUMENTS

PROJECT LOCATION

CITY OF BRAINERD
CROW WING COUNTY

BRAINERD, MINNESOTA

CITY OFFICIALS

MAYOR ED MENK
CITY ADMINISTRATOR JIM THOREEN
CITY COUNCIL SUE HILGART
MARY KOEP
CHIP BORKENHAGEN
DAVID PRITSCHET
KELLY BEVANS
GARY SCHEELER
GABE JOHNSON
CITY ENGINEER JEFF HULSETHER
PUBLIC UTILITIES SCOTT MAGNUSON

APPROVED:

CITY ENGINEER — DATE 12-21-15

PROJECT MANAGER — DATE 12-21-15

PROJECT ENGINEER — DATE 12-21-15

NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02 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.

GG1

P:\AE\B\BRDMN\131759\5-final-sign\51-drawings\10-Civil\cad\dwg\plansets\Overall Title.dwg 12/30/2015 2:18 PM jschmitz