

AGREEMENT

TRANSMITTAL

To: City of Duluth
411 W 1st Street
Room 240
Duluth, MN 55802

Date: November 17, 2023 Project No. 230852
Attention: Brad Scott Task/Subtask: N/A
Re: Duluth Hillside Tunnel Repairs

These are transmitted as checked below:

Mail

- ☐ Priority
- ☐ First Class

Other

- ☐ Pick-up
☐ Hand-delivered
☒ Email

Courier

- ☐ Regular
- ☐ Rush

FedEx

- ☐ FedEx Priority Overnight – 10:30 a.m.
- ☐ FedEx Standard Overnight – 4:30 p.m.
- ☐ FedEx – 2nd Day
- ☐ FedEx - Ground

If a transmittal method is not checked above, it will be sent by First Class Mail.

QUANTITY	NUMBER	DESCRIPTION
1		Fee Estimate
1		2024 Culvert Repair Scope Map
1		2024 Culvert Repair Estimate
1		2024 Culvert Work Scope with Photos

Sent for:

- ☐ Your approval ☐ Your use
- ☒ As requested ☐ Review and comment

Remarks:

Brad – Attached is our fee estimate for the 2024 Hillside Culvert Repair design. Our fee assumes developing biddable plans for the culvert repairs as discussed in our meeting on November 9, 2023 and as outlined in the documents sent be email on Friday November 11, 2023 (also attached). Please reach out if you have any comments or questions.

Copy To: JWS, Project File **Signed:** Christopher J. Miller – 218-249-2495



2023 FEE ESTIMATE WORKSHEET

Project Name
Client
Preparer

Duluth Hillside Creek Culvert Repairs
City of Duluth
Chris Miller

Project Number
Date

230852
November 14, 2023

Project Breakdown Task Description	P1	P3	P4	P5	P7	P9	P13	T1	T5	T7	T7	T10	T12	Total Labor Costs (\$)
	Project Principal	Project Principal	Profess. Eng.	Profess. Eng.	Profess. Eng.	Profess. Eng.	Profess. Eng.	Senior Tech.	Senior Tech.	Lead Tech.	Inter. Tech.	Tech.	Tech.	
	\$ 240	\$ 205	\$ 180	\$ 170	\$ 150	\$ 125	\$ 100	\$ 130	\$ 100	\$ 90	\$ 90	\$ 75	\$ 65	
Task 1 - Project Management														\$ -
Project Management (6 Months Assumed)		6												\$ 1,230.00
Coordination Meeting (3 Assumed)		3			3	3								\$ 1,440.00
Meeting Agenda and Minutes					3									\$ 450.00
														\$ -
Task 2 - Supplemental Field Investigations					20	20								\$ 5,500.00
														\$ -
Task 3 - Detail Design and Plans														\$ -
Title Sheet					1				2					\$ 350.00
General Notes and SEQ		1			2	8			16					\$ 3,105.00
Overall Location Map		1			2				4					\$ 905.00
Brewery Creek Location Map					1				2					\$ 350.00
Coffee Creek Location Map					1				2					\$ 350.00
Buckingham Creek Location Map					1				2					\$ 350.00
Brewery Creek														\$ -
Update Design & Plan from Previous Project		1			8				16					\$ 3,005.00
Coffee Creek														\$ -
Location 1 Map					1				1					\$ 250.00
Location 2 Map					1				1					\$ 250.00
Update Location 1 Details		1			1	2			8					\$ 1,405.00
Update Location 2 Details		1			1	2			8					\$ 1,405.00
Buckingham Creek														\$ -
Individual Location Maps (5 Total)		1			2	4			8					\$ 1,805.00
Buckingham Creek - Location 1 (20+00 - 20+77)														\$ -
Wall Elevation		1			2	2			8					\$ 1,555.00
Existing Section at Catch Basin		1			2				8					\$ 1,305.00
Proposed Section at Catch Basin		1			2				8					\$ 1,305.00
Catch Basin Details/Reinforcement		2			4	2			8					\$ 2,060.00
Miscellaneous Detail		2			2				6					\$ 1,310.00
Road Reconstruction Details		1			1	4			6					\$ 1,455.00
Buckingham Creek - Location 2 (30+00 - 31+17)														\$ -
Concrete Floor Details		2			2	2			8					\$ 1,760.00
Concrete Surface Repair at Manhole		1			2	4			8					\$ 1,805.00
Slope Stabilization (3 sheets)		2			4	12			24					\$ 4,910.00
Buckingham Creek - Location 3 (70+00 - 71+30)														\$ -
Concrete Floor Details		1			2	2			8					\$ 1,555.00
Existing Section at Catch Basin		1			2				8					\$ 1,305.00
Proposed Section at Catch Basin		1			2				8					\$ 1,305.00
Catch Basin Details/reinforcement		2			4	2			8					\$ 2,060.00
Miscellaneous Detail		2			4				8					\$ 1,810.00
Road Reconstruction Details		2			2	8			16					\$ 3,310.00
Buckingham Creek - Location 4 (80+00 - 82+52)														\$ -
Culvert Plan and Elevation		1			4				8					\$ 1,605.00
Culvert Sections		1			2	6			8					\$ 2,055.00
Culvert Wall Elevations		2			2	2			8					\$ 1,760.00
Misc. Details		2			4				8					\$ 1,810.00
Buckingham Creek - Location 5 (111+00 - 111+78)														\$ -
Culvert Plan and Elevation		1			4				8					\$ 1,605.00
Culvert Sections		1			2	6			8					\$ 2,055.00
Culvert Wall Elevations		2			2	2			8					\$ 1,760.00
Misc. Details		2			4				8					\$ 1,810.00
Task 4 - Technical														\$ -
Project Special Provisions		6			16									\$ 3,630.00
Engineer's Estimates (Est 3)		2			8									\$ 1,610.00
Project Bidding Assistance					4									\$ 600.00
														\$ -
														\$ -
														\$ -
														\$ -
														\$ -
														\$ -
Total Hours	-	57	-	-	137	93	-	-	274	-	-	-	-	\$ -
Travel Expenses	Qty	Rate	Cost	Other Direct Expenses				Cost			Labor Cost			\$ 71,260.00
				Mail / Delivery							Travel Costs			\$ 32.75
Mileage	50	0.66	32.75	Printing							Direct Costs			\$ -
		-	-	Other										
		-	-											
		-	-											
		-	-											
		-	-											
Total Travel Costs			32.75	Total Direct Costs				-			Total Estimated Cost			\$ 71,292.75

Brewery Creek



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
NAME: Christopher J. Miller LIC. NO. 49840 DATE 07/13/2023
CHRISTOPHER J. MILLER

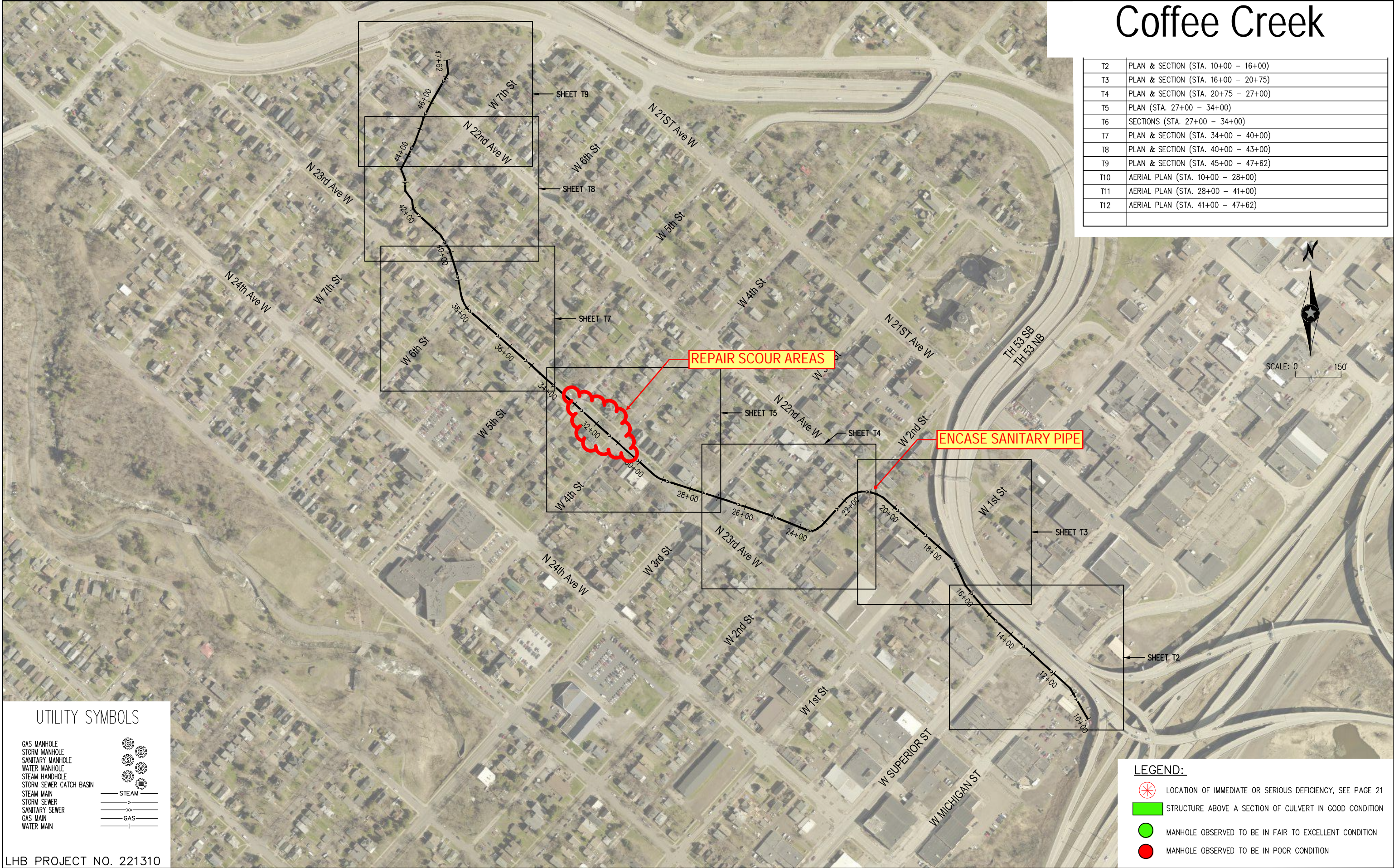
TITLE: **AERIAL & SECTIONS**
(STA. 20+00 – 33+00)

DES:	DR: JRM	APPROVED:
CHK:	CHK: CJM	
Sheet No. T13 of 15 Sheets		

Bridge No. **BREWERY**

Coffee Creek

T2	PLAN & SECTION (STA. 10+00 - 16+00)
T3	PLAN & SECTION (STA. 16+00 - 20+75)
T4	PLAN & SECTION (STA. 20+75 - 27+00)
T5	PLAN (STA. 27+00 - 34+00)
T6	SECTIONS (STA. 27+00 - 34+00)
T7	PLAN & SECTION (STA. 34+00 - 40+00)
T8	PLAN & SECTION (STA. 40+00 - 43+00)
T9	PLAN & SECTION (STA. 45+00 - 47+62)
T10	AERIAL PLAN (STA. 10+00 - 28+00)
T11	AERIAL PLAN (STA. 28+00 - 41+00)
T12	AERIAL PLAN (STA. 41+00 - 47+62)



UTILITY SYMBOLS

- GAS MANHOLE
- STORM MANHOLE
- SANITARY MANHOLE
- WATER MANHOLE
- STEAM HANDHOLE
- STORM SEWER CATCH BASIN
- STEAM MAIN
- STORM SEWER
- SANITARY SEWER
- GAS MAIN
- WATER MAIN



LEGEND:

- LOCATION OF IMMEDIATE OR SERIOUS DEFICIENCY, SEE PAGE 21
- STRUCTURE ABOVE A SECTION OF CULVERT IN GOOD CONDITION
- MANHOLE OBSERVED TO BE IN FAIR TO EXCELLENT CONDITION
- MANHOLE OBSERVED TO BE IN POOR CONDITION

LHB PROJECT NO. 221310

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

CHRISTOPHER J. MILLER
PRINTED NAME

SIGNATURE

11/1/2023
DATE
49840
LIC. NO.

CITY PROJECT NO. 2124

COFFEE CREEK CONDITION STUDY

GENERAL PLAN

SHEET NO. T1 OF 12 SHEETS

Coffee Creek



LHB PROJECT NO. 221310

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CHRISTOPHER J. MILLER
PRINTED NAME

SIGNATURE

11/1/2023
DATE
49840
LIC. NO.

CITY PROJECT NO. 2124

COFFEE CREEK CONDITION STUDY

AERIAL PLAN (STA 10+00 – 28+00)

SHEET NO. T10 OF 12 SHEETS

Coffee Creek



LHB PROJECT NO. 221310

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CHRISTOPHER J. MILLER
PRINTED NAME

SIGNATURE

11/1/2023
DATE
49840
LIC. NO.

CITY PROJECT NO. 2124

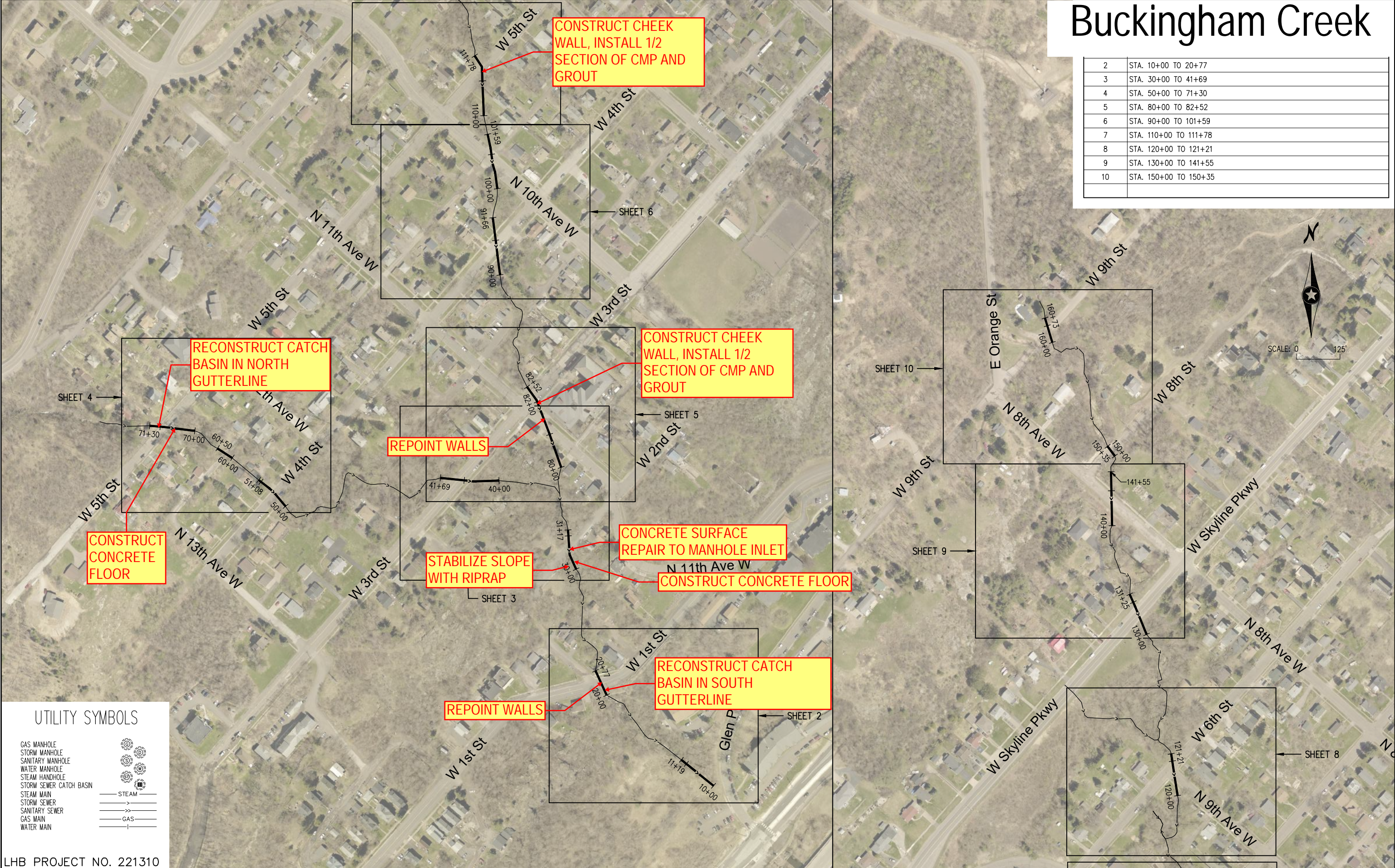
COFFEE CREEK CONDITION STUDY

AERIAL PLAN (STA 28+00 – 41+00)

SHEET NO. T11 OF 12 SHEETS

Buckingham Creek

2	STA. 10+00 TO 20+77
3	STA. 30+00 TO 41+69
4	STA. 50+00 TO 71+30
5	STA. 80+00 TO 82+52
6	STA. 90+00 TO 101+59
7	STA. 110+00 TO 111+78
8	STA. 120+00 TO 121+21
9	STA. 130+00 TO 141+55
10	STA. 150+00 TO 150+35



UTILITY SYMBOLS

GAS MANHOLE

STORM MANHOLE

SANITARY MANHOLE

WATER MANHOLE

STEAM HANDHOLE

STORM SEWER CATCH BASIN

STEAM MAIN

STORM SEWER

SANITARY SEWER

GAS MAIN

WATER MAIN

LHB PROJECT NO. 221310

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PRINTED NAME

SIGNATURE

DATE

LIC. NO.

CITY PROJECT NO. 2124

BUCKINGHAM CREEK CONDITION STUDY

GENERAL PLAN

SHEET NO. 1 OF 10 SHEETS

Buckingham Creek – Reconstruct Catch Basin at 20+19



Buckingham – Repoint Segment 2 since roof/catch basin in being repaired



Buckingham – Construct floor in Segment 3 & concrete surface repair at manhole if floor constructed, stabilize slope (not pictured)



Buckingham – Segment 7 – Reconstruct Catch basin/roof



Buckingham Creek – Construct floor – Segment 7



Buckingham – Repoint Segment 8 Walls



Buckingham – Segment 11 - Construct Scour walls and plate arch similar to segment 8

