Addendum 1 Solicitation 21-99400 2021 Street Preservation Project

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. CHANGES TO PROJECT MANUAL

a. BID FORM has been replaced due to a change in bid items used in the project.
 Please note changes in bid item descriptions and use the enclosed (Exhibit A) for project bid submittals.

2. CHANGES TO DRAWINGS

- a. See attached Sheets 5, 6, 7 and 8 (Statement of Estimated Quantities) which reflect the changes to the Select Granular Borrow (CV) bid item. The bid item has changed from Select Granular Borrow (CV) to Select Granular Borrow Mod 7% (CV).
- See attached Sheet 9 (Legend-Notes-Index) which reflects the addition of note 20 referenced on the Statement of Estimated Quantities and the addition of MnDOT Standard Plate Number 7000E.
- c. See attached Sheets 98, 102, 127, 145 and 152 which provide clarifications for bid items on the Typical Sections for the Burning Tree Road, Mountain Shadow Drive, Norton Road, North Lake Avenue and Matterhorn Drive segments of the project.

3. CLARIFICATIONS/ADDITIONS

- a. The contract documents show Motor Grader paid by Hour and Compactor paid by Week. These payments are based on pay items in the 2018 MnDOT Standard for Specifications for Construction and will be paid as shown in the Statement of Estimated Quantities.
- b. Sheet 78 for Elinor Street shows Remove Sign (Yield) and Install Sign Type C (Yield). Contractor shall remove the yield sign and then furnish and install a new Yield sign and post. Other instances of Salvage Sign type C and Install Sign Type C are also correct. Contractor shall salvage the existing sign and install with a new Breakaway Mount Post.
- c. Seeding and mulch (Sheets 47, 48, 49 and 50) are noted as incidental work on Elk Street. Shoulders are to be seeded with Seed Mixture 25-141 at a rate of 59 lbs/acre and then covered with a mulch or blanket for erosion protection. All work shall be paid and considered incidental to Common Topsoil Borrow pay item
- d. Adjust Valve Box. This item is noted as Specification 2504 (which doesn't exist in the MnDOT Standard for Specifications for Construction) and doesn't have a special provision describing it. This item will include furnishing and installing a

- 1.5" or 2" height adjuster on the Mill & Overlay and Overlay portions of the project. The Reclaim and Reconstruct segments will require concrete collars as specified in The City of Duluth, Minnesota Construction Standards and shown in the Plans.
- e. Street segments with striping are noted with Solid Line Multi Comp (i.e. 4" Double Solid Multi Comp) on the plan sheets and the Statement of Estimated Quantities shows Solid Line Paint (i.e. 4" Double Solid Line Paint). The Statement of Estimated Quantities is correct, Solid Line Paint shall be used and not Solid Multi Comp.
- f. The "Site Restoration" note is hereby removed from Sheet 64 adjacent to the 4-Inch Concrete Walk item. Note 2 on Sheet 9 gives a description of the type of incidental work to be completed around finished concrete work, including turf establishment.
- g. On Plan Sheet 118 for Vermilion Road, there is bituminous pavement being constructed over an existing gravel surface. Any grading and compaction time necessary to prepare the gravel road grade will be incidental to paving the 130-foot long section of Bituminous Overlay.
- h. Plan Sheet 145 for North Lake Avenue shows placement of a non-wearing course of SPNWB340B. Contractor shall use SPWEA340B for bituminous pavement at this location. See attachment for the updated Typical Section (Sheet 145).
- i. Plan Sheets for Burning Tree Road, Matterhorn Drive, and Mountain Shadow Drive show placement of a non-wear course of SPNWB340C. Contractor shall use the wear course mixture of SPWEA340C on all lifts as shown in the SEQ. See attached Sheets 98, 102 and 152 for updated Typical Sections showing these changes.
- j. Norton Road and all reclaim roadway sections shall be constructed with two lifts of SPWEA340C of bituminous pavement. See attached Sheet 127 for the updated Norton Road Typical Section.
- k. The Statement of Estimated Quantities refers to Note 20 with the Bituminous Curb pay item. See attached Sheet 9 for an updated Legend-Notes-Index list with Note 20 and the addition of MnDOT Standard Plate Number 7000E.

Addendum 1 consists of these two (2) pages, Exhibit A (bid sheet), and ten (10) revised plan sheets.

Please acknowledge receipt of this Addendum by checking the acknowledgement box within the www.bidexpress.com solicitation. Failure to acknowledge this addendum may disqualify your bid.

Posted: **April 27, 2021**

Order No.	Item No.	Description	Units	Quantity
1	2021.501	MOBILIZATION	LUMP SUM	1
2	2104.502	REMOVE MANHOLE OR CATCH BASIN	EACH	19
3	2104.509	REMOVE VALVE BOX	EACH	9
4	2104.502	SALVAGE SIGN TYPE C	EACH	3
5	2104.503	REMOVE PIPE CULVERTS	LIN FT	546
6	2104.503	REMOVE CURB & GUTTER	LIN FT	5148
7	2104.053	REMOVE GUARDRAIL	LIN FT	150
8	2104.502	REMOVE SIGN	EACH	1
9	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	1061
10	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	1145
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	3813
12	2104.518	REMOVE CONCRETE WALK	SQ FT	11404
13	2104.618	REMOVE BRICK PAVERS	SQ FT	21333
14	2105.507	COMMON EXCAVATION	CU YD	3549
15 16	2105.507	SELECT GRANULAR BORROW MOD 7% (CV)	CU YD	2507
16	2112.519	SUBGRADE PREPARATION AGGREGATE SURFACING (LV), CLASS 5	ROAD STA CU YD	14 706
17 18	2118.507 2123.510	MOTOR GRADER	HOUR	12
19	2123.510	COMPACTOR	WEEK	0.5
20	2130.523	WATER	M GALLON	5
21	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	11969
22	2211.509	AGGREGATE BASE (CV) CLASS 5	CU YD	984
23	2215.504	FULL DEPTH RECLAMATION	SQ YD	47874
24	2232.504	MILL BITUMINOUS SURFACE (1.5")	SQ YD	49533
25	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	40200
26	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	9115
27	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	6482
28	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	12039
29	2502.503	4" PERF PVC PIPE DRAIN	LIN FT	2460
30	2503.503	12" RC PIPE SEWER DES. 3006 CL V	LIN FT	377
31	2503.503	18" RC PIPE SEWER DES. 3006 CL V	LIN FT	229
32	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	24
33	2504.602	ADJUST VALVE BOX	EACH	59
34	2504.602	ADJUST CURB STOP	EACH	6
35	2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	5
36	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	EACH	2
37	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN G	EACH	13
38	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EACH	2
39	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	EACH	2
40	2506.502	CASTING ASSEMBLY	EACH	21
41	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	4
42	2506.602	ADJUST FRAME RING & CASTING	EACH	60
43	2506.602	GRATE CASTING SPECIAL	EACH	20
44 45	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	30
45 46	2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	3
46	2521.518	4" CONCRETE WALK	SQ FT	9375

2521.518	6" CONCRETE WALK	SQ FT	12125
2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	5148
2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	1167
2531.603	CONCRETE CURB DESIGN V	LIN FT	22
2531.618	TRUNCATED DOMES	SQ FT	1093
2535.503	BITUMINOUS CURB	LIN FT	2265
2540.602	CONSTRUCT SURVEY MONUMENT	EACH	3
2540.602	RELOCATE MAIL BOX SUPPORT	EACH	39
2554.502	END TREATMENT-ENERGY ABSORBING TERMINAL	EACH	2
2554.603	INSTALL GUARDRAIL	LIN FT	150
2563.601	TRAFFIC CONTROL	LUMP SUM	1
2564.502	INSTALL SIGN TYPE C	EACH	4
2574.507	COMMON TOPSOIL BORROW	CU YD	114
2575.601	EROSION CONTROL	LUMP SUM	1
2582.503	4" SOLID LINE PAINT	LIN FT	24681
2582.503	12" SOLID LINE PAINT	LIN FT	576
2582.503	24" SOLID LINE PAINT	LIN FT	445
2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	18185
2582.518	PAVEMENT MESSAGE PAINT	SQ FT	201
2582.518	CROSSWALK PREF THERMO GR IN	SQ FT	936
	2531.503 2531.504 2531.603 2531.618 2535.503 2540.602 2540.602 2554.502 2554.603 2563.601 2564.502 2574.507 2575.601 2582.503 2582.503 2582.503 2582.503	2531.503 CONCRETE CURB & GUTTER DESIGN B624 2531.504 7" CONCRETE DRIVEWAY PAVEMENT 2531.603 CONCRETE CURB DESIGN V 2531.618 TRUNCATED DOMES 2535.503 BITUMINOUS CURB 2540.602 CONSTRUCT SURVEY MONUMENT 2540.602 RELOCATE MAIL BOX SUPPORT 2554.502 END TREATMENT-ENERGY ABSORBING TERMINAL 2554.603 INSTALL GUARDRAIL 2563.601 TRAFFIC CONTROL 2564.502 INSTALL SIGN TYPE C 2574.507 COMMON TOPSOIL BORROW 2575.601 EROSION CONTROL 2582.503 4" SOLID LINE PAINT 2582.503 12" SOLID LINE PAINT 2582.503 4" DOUBLE SOLID LINE PAINT 2582.503 4" DOUBLE SOLID LINE PAINT 2582.518 PAVEMENT MESSAGE PAINT	2531.503 CONCRETE CURB & GUTTER DESIGN B624 LIN FT 2531.504 7" CONCRETE DRIVEWAY PAVEMENT SQ YD 2531.603 CONCRETE CURB DESIGN V LIN FT 2531.618 TRUNCATED DOMES SQ FT 2535.503 BITUMINOUS CURB LIN FT 2540.602 CONSTRUCT SURVEY MONUMENT EACH 2540.602 RELOCATE MAIL BOX SUPPORT EACH 2554.502 END TREATMENT-ENERGY ABSORBING TERMINAL EACH 2554.603 INSTALL GUARDRAIL LIN FT 2563.601 TRAFFIC CONTROL LUMP SUM 2564.502 INSTALL SIGN TYPE C EACH 2574.507 COMMON TOPSOIL BORROW CU YD 2575.601 EROSION CONTROL LUMP SUM 2582.503 4" SOLID LINE PAINT LIN FT 2582.503 24" SOLID LINE PAINT LIN FT 2582.503 4" DOUBLE SOLID LINE PAINT LIN FT 2582.518 PAVEMENT MESSAGE PAINT SQ FT

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SIGNATURE: _

			DULUTH 2021 STREET PRESERVATION DULUTH, MINNESOTA			OVERLAY							
ITEM NO.	GENERAL NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	131ST AVE W . W 1RD SY TO MISSION CREEK PKWY	W 9TH ST - STHAVE W TO	E12TH ST ALLEY - STH	MATTERHORN CIRCLE - MATTERHORN OR TO CUL DE SAC	ELK ST - VERMILLION RO TO LOCHAIRE AVE			
1		2021.501	MOBILIZATION	LUMP SUM	1	0.04	0.04	0.04	0.04	0.04			
2		2104.502	REMOVE MANHOLE OR CATCH BASIN	EACH	19	0	0	0	0	0			
3		2104.509	REMOVE VALVE BOX	EACH	9	0	0	0	0	0			
4		2104.502	SALVAGESIGN TYPE C	EACH	3	0	0	0	0	0			
5		2104.503	REMOVE PIPE CULVERTS	LINET	546	0	0	0	0	0			
6	3	2104.503	REMOVE CURB & GUTTER	LINET	5148	0	0	86	0	0			
7		2104.053	REMOVE GUARDRAIL	LINFT	150	0	0	0	0	0			
8		2104.502	REMOVE SIGN	EACH	1	0	0	0	0	0			
9	3	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQYD	1061	0	0	19	73	0			
10	3	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQYD	1145	0	0	0	0	0			
11		2104.504	REMOVE BITUMINOUS PAVEMENT	SQYD	3813	0	0	0	0	0			
12	3	2104.518	REMOVE CONCRETE WALK	SQFT	11404	0	0	160	0	0			
13		2104.618	REMOVE BRICK PAVERS	SQ FT CU YD	21333 3549	7	0	52	0	0			
14	(2105.507	SELECT GRANULAR BORROW MOD 7% (CV)			0	0	0	0	0			
15		Z112.519	SUBURALE PREPARATION WILD 7% [CV]	ROAD STA	2507	0	0	0	0	0			
17	13	2118.507	AGGREGATE SURFACING (LV), CLASS 5	CU YD	706	59	97	13	0	10			
18	10	2123.510	MOTOR GRADER	HOUR	12	0	6	6	0	0			
19	10	2123.612	COMPACTOR	WEEK	0.5	0	0.25	0.25	0	0			
20		2130.523	WATER	MIGALLON	5	0	2	3	0	0			
21	7	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	11969	0	0	0	0	0			
22		2211.509	AGGREGATE BASE (CV) CLASS S	CU YD	984	0	0	0	0	0			
23	1	2215.504	FULL DEPTH RECLAMATION	SQYD	47874	0	0	0	0	0			
24	1,16	2232.504	MILL BITUMINOUS SURFACE (1.5")	SQYD	49533	0	0	0	0	0			
25	1,16	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQYD	40200	0	0	0	0	0			
26	6	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	9115	344	297	83	31	410			
27	6, 8, 9, 15, 18	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,8)	TON	6482	629	0	0	55	738			
28	6, 9, 15, 18	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	12039	0	535	148	0	0			
29	4.7	2502.503	4" PERF PVC PIPE DRAIN	LINET	2460	0	0	0	0	0			
30	17	2503.503 2503.503	12" RC PIPE SEWER DES. 3006 CL V	LINFT	377 229	0	0	60	0	0			
31		2503.602	18" RC PIPE SEWER DES. 3006 CL V CONNECT TO EXISTING STORM SEWER	LIN FT EACH	24	0	0	0	0	0			
33	5	2504.602	ADJUST VALVE BOX	EACH	59	15	0	0	4	0			
34	,	2504.602	ADJUST CURB STOP	EACH	6	0	0	0	0	0			
35		2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	5	0	0	0	0	0			
36	17	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	EACH	2	0	0	0	0	0			
37	17	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN G	EACH	13	0	0	1	0	0			
38	17	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EACH	2	0	0	0	0	0			
39	17	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	EACH	2	0	0	0	0	0			
40		2506.502	CASTING ASSEMBLY	EACH	21	0	0	1	0	0			
41		2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LINFT	4	0	0	0	0	0			
42	12	2506.602	ADJUST FRAMERING & CASTING	EACH	60	0	0	0	0	0			
43		2506.602	GRATE CASTING SPECIAL	EACH	1	0	0	1	0	0			
44	11	2506.602	ADJUST FRAMERING & CASTING (SPECIAL)	EACH	30	0	0	0	2	0			
45	2	2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	3	0	0	0	0	0			
46	2,4,14	2521.518	4" CONCRETE WALK	SQFT	9375	0	0	74	0	0			
47	2,4,14	2521.518	6" CONCRETE WALK	SQFT	12125	0	0	86 86	0	0			
49	2	2531.503 2531.504	CONCRETE CURB & GUTTER DESIGN 8624 7" CONCRETE DRIVEWAY PAVEMENT	SQYD	5148 1167	0	0	19	73	0			
50	-	2531.603	CONCRETE CURB DESIGN V	LINFT	22	0	0	0	0	0			
51	4,14	2531.618	TRUNCATED DOMES	SQFT	1093	0	0	16	0	0			
52	20	2535.503	BITUMINOUS CURB	LINET	2265	0	0	0	0	0			
53		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	3	1	0	0	0	0			
54		2540.602	RELOCATE MAIL BOX SUPPORT	EACH	39	0	3	0	0	0			
55		2554.502	END TREATMENT-ENERGY ABSORBING TERMINAL	EACH	2	0	0	0	0	0			
56		2554.603	INSTALL GUARDRAIL	LINFT	150	0	0	0	0	0			
57		2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.04	0.04	0.04	0.04	0.04			
58	19	2564.502	INSTALL SIGN TYPE C	EACH	4	0	0	0	0	0			
59		2574.507	COMMON TOPSOIL BORROW	CUYD	114	0	0	0	0	114			
60		2575.601	EROSION CONTROL	LUMP SUM	1	0.04	0.04	0.04	0.04	0.04			
61		2582.503	4" SOLID LINE PAINT	LINFT	24681	0	0	0	0	0			
62		2582.503	12"SOLID LINE PAINT	LINFT	576	0	0	0	0	0			
63		2582.503	24" SOLID LINE PAINT	LINFT	445	0	0	0	0	0			
64		2592 503	4" DOUBLESOUD LINEBAINT	LINET	19195	0	0	0	0	0			

ADDENDUM 1 - REVISION DATE: 04/26/2021

I HEREBY CERTIFY THAT THIS PLAN 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.

2582.503 4" DOUBLESOLID LINE PAINT

PAVEMENT MESSAGE PAINT

CROSSWALK PREF THERMO GR IN

2582.518

DATE: ____04/15/2021 _______________________________LIC. NO: _____26422

TYPE NAME

LINET

SQ.FT

18185

201

936

DULUTH

CITY OF DULUTH ENGINEERING DIVISION 411 W. 1ST ST. STE. 211 DULUTH, MN 55802 0

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	2021 DULUTH	STREET PRESERVATION		DRA'	WN BY:	TSM		
	ZUZT DULUTH	STREET FRESERVATION		STATEMENT OF	ESTIMATED	QUANTITIES	S-1 ()F 4
CITY PROJECT NO.:	1693	STATE AID PROJECT NO.:	N/A	SHEET	NO. 5	OF	172	

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			STATEMENT OF ESTIMATED QUANTITIES												
			DULUTH 2021 STREET PRESERVATION DULUTH, MINNESOTA						MILL & C	OVERLAY					
ITEM NO.	GENERAL NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	FALCONST - 93RD AVE W TO SSTHAVE W	90TH AVEW - HLTON ST TO FALCON ST	RALEIGH ST-CENTRAL AVE TO 59 TH AVE V	N SATH AVE W - EUNOR ST TO W 6 TH ST	NSGTH AVE W - EUNOR ST TO WETH ST	ELINOR ST-N SETHAVE W TO CENTRAL AVE	RESTORMEL ST - W 3RD ST TO DE AD END	N SRD AVEW - V 2ND ST ALLEY TO 4 TH ST		
1		2021.501	MOBILIZATION	LUMPSUM	1	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04		
2		2104.502	REMOVE MANHOLE OR CATCH BASIN	EACH	19	2	0	0	0	0	0	0	0		
3		2104.509	REMOVE VALVE BOX	EACH	9	0	0	9	0	0	0	0	0		
4		2104.502	SALVAGE SIGN TYPE C	EACH	3	0	0	1	0	0	0	0	0		
5		2104.503	REMOVE PIPE CULVERTS	LINFT	546	40	0	0	0	0	0	0	0		
6	3	2104.503	REMOVE CURS & GUTTER	LINET	5148	252	72	298	197	298	138	327	10		
7		2104.053	REMOVE GUARDRAIL	LINFT	150	0	0	0	0	0	0	0	0		
8		2104.502	REMOVE SIGN	EACH	1	0	0	0	0	0	1	0	0		
9	3	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQYD	1061	0	0	161	241	0	0	0	115		
10	3	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD SQ YD	1145 3813	0	0	0	0	0	0	0	0		
12	3	2104.518	REMOVE BITUMINOUS PAVEMENT REMOVE CONCRETE WALK	SQFT	11404	829	338	3149	453	1407	982	1483	0		
13	3	2104.518	REMOVE BRICK PAVERS	SQFT	21333	0	0	0	933	0	902	0	0		
14		2105,507	COMMON EXCAVATION	CUYD	3549	0	0	0	0	0	0	0	0		
15		2105.507	SELECT GRANULAR BORROW MOD 256 ICVA	CUYD	2507	0	0	0	0	0	0	0	0		
16		\sim	SUBGRADIC PRICE PARKETION	ROAD STA	14	0	0	0	0	0	0	0	0		
17	13	2118.507	AGGREGATE SURFACING (LV), CLASS 5	CUYD	706	0	0	0	0	0	0	0	0		
18	10	2123.510	MOTOR GRADER	HOUR	12	0	0	0	0	0	0	0	0		
19	10	2123.612	COMPACTOR	WEEK	0.5	0	0	0	0	0	0	0	0		
20		2130.523	WATER	M GALLON	5	0	0	0	0	0	0	0	0		
21	7	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	11969	0	0	0	0	0	0	0	0		
22		2211.509	AGGREGATE BASE (CV) CLASS 5	CUYD	984	0	0	0	0	0	0	0	0		
23	1	2215.504	FULL DEPTH RECLAMATION	SQYD	47874	0	0	0	0	0	0	0	0		
24	1,16	2232.504	MILL BITUMINOUS SURFACE (1.5")	SQYD	49533	5271	2513	6236	1806	4227	1365	3667	3470		
25	1,16	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQYD	40200	0	0	0	0	0	0	0	0		
26	6	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	9115	264	126	312	91	212	69	184	175		
27	6, 8, 9, 15, 18	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,8)	TON	6482	475	227	562	163	381	123	354	314		
28	6, 9, 15, 18	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	12039	0	0	0	0	0	0	0	0		
29		2502.503	4" PERF PVC PIPE DRAIN	LINFT	2460	0	0	0	0	0	0	0	0		
30	17	2503.503	12" RC PIPE SEWER DES. 3006 CL V	LINFT	377	40	0	0	0	0	0	0	0		
31		2503.503	18" RC PIPE SEWER DES. 3006 CL V	LINFT	229	0	0	0	0	0	0	0	0		
32		2503.602	CONNECT TO EXISTING STORM SEWER	EACH	24	6	0	0	0	0	0	0	0		
33	5	2504.602	ADJUST VALVE BOX	EACH	59	4	2	18	0	3	0	2	1		
34		2504.602	ADJUST CURB STOP	EACH	6	0	0	0	2	0	0	0	1		
35		2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	5	0	0	0	0	0	0	0	0		
36	17	2506,502	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	EACH	2	1	0	0	0	0	0	0	0		
37	17	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN G	EACH	13	0	0	0	0	0	0	0	0		
38	17	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EACH	2	0	0	0	0	0	0	0	0		
39	17	2506,502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	EACH	2	0	0	0	0	0	0	0	0		
40		2506.502	CASTING ASSEMBLY	EACH	21	1	0	0	2	0	0	0	0		
41		2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LINFT	4	0	0	0	0	3	0	0	1		
42	12	2506.602	ADJUST FRAME RING & CASTING	EACH	60	9	0	10	2	5	4	10	3		
43		2506.602	GRATE CASTING SPECIAL	EACH	1	0	0	0	0	0	0	0	0		
44	11	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	30	0	0	0	0	0	0	4	10		
45	2,4,14	2506.602 2521.518	CONCRETE ENCASED CASTING COLLAR 4" CONCRETE WALK	SQ FT	9375	467	152	2123	364	0 512	409	966	0		
47	2,4,14	2521.518	6" CONCRETE WALK	SQFT	12125	362	186	1026	89	895	573	517	0		
48	4	2531.503	CONCRETE CURB & GUTTER DESIGN 8624	LINET	5148	252	72	298	197	298	138	327	10		
49	2	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQYD	1167	71	17	161	241	0	0	0	115		
50	-	2531.603	CONCRETE CURB DESIGN V	LINET	22	0	0	0	0	22	0	0	0		
51	4,14	2531.618	TRUNCATED DOMES	SQFT	1093	83	49	234	16	92	120	164	0		
52	20	2535.503	BITUMINOUS CURB	LINFT	2265	0	0	0	0	0	0	0	0		
53		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	3	0	0	2	0	0	0	0	0		
54		2540.602	RELOCATE MAIL BOX SUPPORT	EACH	39	0	0	0	0	0	0	0	0		
55		2554.502	END TREATMENT-ENERGY ABSORBING TERMINAL	EACH	2	0	0	0	0	0	0	0	0		
56		2554,603	INSTALL GUARDRAIL	LINFT	150	0	0	0	0	0	0	0	0		
57		2563.601	TRAFFIC CONTROL	LUMPSUM	1	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04		
58	19	2564.502	INSTALL SIGN TYPE C	EACH	4	0	0	1	0	0	1	0	0		
59		2574.507	COMMON TOPSOIL BORROW	CUYD	114	0	0	0	0	0	0	0	0		
60		2575.601	EROSION CONTROL	LUMPSUM	1	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04		
61		2582.503	4" SOLID LINE PAINT	LINFT	24681	0	0	0	0	0	0	0	0		
62		2582.503	12" SOUD LINE PAINT	LINFT	576	0	0	0	0	0	0	0	0		
63		2582.503	24" SOLID LINE PAINT	LINFT	445	0	0	0	0	0	0	0	76		
64		2582.503	4" DOUBLE SOLID LINE PAINT	LINFT	18185	0	0	1068	0	0	0	0	690		
65		2582.518	PAVEMENT MESSAGE PAINT	SQFT	201	0	0	0	0	0	0	0	0		
66		2582.518	CROSSWALK PREF THERMO GR IN	SQFT	936	0	0	0	0	576	360	0	0		

I HEREBY CERTIFY THAT THIS PLAN 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.

STATEMENT OF ESTIMATED QUANTITIES

DATE: <u>04/15/2021</u> Jeffrey S. Goetzman TYPE NAME LIC. NO: 26422



CITY OF DULUTH ENGINEERING DIVISION 411 W. 1ST ST. STE. 211 DULUTH, MN 55802

2021 DULUTH STREET PRESERVATION CITY PROJECT NO .: 1693 STATE AID PROJECT NO .: N/A SHEET NO. 6 OF

ADDENDUM 1 - REVISION DATE: 04/26/2021

DRAWN BY: STATEMENT OF ESTIMATED QUANTITIES-2 OF 4

SIGNATURE: _

STATEMENT OF ESTIMATED QUANTITIES DULUTH 2021 STREET PRESERVATION DULUTH, MINNESOTA

MILL & OVERLAY

March Marc				DULUTH, MINNESOTA					- MILL OL	VENEAT				
2			SPEC. NO.	ITEM DESCRIPTION	UNIT		ENTRANCE TO MAPLE		BURNING TREE RD TO	DR-BURNING TREE RD	SHADOW OR TO DECKER		ARROWHEAD RD TO	DIXFORD ST TO END OF
1	1	i	2021.501	MOBILIZATION	LUMP SUM	1	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
No. 1985 1	2		2104.502	REMOVE MANHOLE OR CATCH BASIN	EACH	19	0	0	2	0	0	0	0	2
1	3		2104.509	REMOVE VALVE BOX	EACH	9	0	0	0	0	0	0	0	0
NAME	4		2104.502	SALVAGESIGN TYPE C	EACH	3	0	0	0	0	0	0	0	0
The content of the	5		2104.503	REMOVE PIPE CULVERTS	LINFT	546	Û	Û	26	0	0	Û	Û	229
1 13 13 13 13 13 13 13	6	3	2104.503	REMOVE CURB & GUTTER	LINFT	5148	0	0	368	312	60	0	Û	69
1 3	7		2104.053	REMOVE GUARDRAIL	LINFT	150	0	0	0	0	150	0	0	0
10 3 273-55-06 MINONE DEFINANCE SERVINE 500 1911 0 0 0 1912 190 0 0 0 0 0 0 0 0 0	8		2104.502			1	0		_		0	0	0	_
13 319-3-504 MANONE RELIGIATION OF A STATE 1164 1 2 3 3 3 3 3 3 3 3 3		_												
3		3												
10 10 10 10 10 10 10 10														
1	_	3												
15 1969 10 1979							_							
13 219.50	-		$\sim\sim$	m										
19 13 2319.59			ستت		\leftarrow			_						
19	-	10												
19	_													
20									_				_	
27 2311.59 CALCARD CROSS CRUIDON GALLON 11949 0		20												
22 1. 231.50 ACCIDINATION SATIO 984 0 0 0 0 0 0 0 0 0		7												
1													_	
1,		1												
1.5 1.5 2232-56 MILE PLANING SHIPACE (297)														
18														
28 6,8,15,18 2386.95 Press 2386.95 Press 2386 2386.95 Press 2386 2386.95	_						391				96	74	89	
290.503 PERRIPYCE PRODUMN LINET 24460 0	27 6	5, 8, 9, 15, 18	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,8)	TON	6482	704	69	117	212	288	132	160	372
17	28	6, 9, 15, 18	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	12039	0	0	88	38	0	0	0	0
1	29		2502.503	4" PERF PVC PIPE DRAIN	LINET	2460	0	0	0	150	0	0	0	0
2 230,602 0.0NRECT DISCRAMES STORM SWERE EACH 24 0 0 0 2 1 0 0 0 0 0 0 0 0 0	30	17	2503.503	12" RC PIPE SEWER DES. 3006 CL V	LINET	377	0	0	26	0	0	0	0	0
S S S S S S S S S S	31		2503.503	18" RC PIPE SEWER DES. 3006 CL V	LINFT	229	0	0	0	0	0	0	0	
14	32		2503.602	CONNECT TO EXISTING STORM SEWER	EACH	24	0	0	2	1	0	0	0	3
15	33	5	2504.602	ADJUSTVALVE BOX	EACH	59	7	0	0	0	0	0	0	0
17	34		2504.602	ADJUST CURB STOP	EACH	6	0	0	0	0	0	3	0	0
17	35		2504,602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	5	0	0	0	0	0	0	0	0
18				CONSTRUCT DRAINAGE STRUCTURE DESIGN F						0	0	0	0	1
17	_													
Facility Facility														
1		17												
12 2306.602 ADJUST FRAME (SING & CASTING FACH 60 0 0 0 2 0 2 1 0 4	_													
2306.602 CART CASTING SPECIAL EACH 1 0 0 0 0 0 0 0 0 0														
44	_	12												
45	$\overline{}$	- 11				_								
46 2,4,14 2521.518 4°CONCRETEWALK SQFT 9375 0 0 90 2352 88 0 19 58 47 2,4,14 2521.518 6°CONCRETEWALK SQFT 12125 0 0 176 82 124 0 48 58 48 4 2531.503 CONCRETE CURB & GUTTER DESIGN B624 LINFT 5148 0 0 348 3312 60 0 0 0 69 49 2 2531.504 7°CONCRETE DESIGN B624 LINFT 5148 0 0 0 348 3312 60 0 0 0 0 50 2531.604 CONCRETE CURB & GUTTER DESIGN B624 LINFT 5148 0 0 0 348 3312 60 0 0 0 0 50 2531.603 CONCRETE CURB & GUTTER DESIGN B055NV LINFT 22 0 0 0 0 0 0 0 0		**												
47 2,4,14 2521.518 6"CONCRITE WALK SQFT 12125 0 0 176 82 124 0 48 58	_	2.4.14												
48 4 2531.503 CONCRETE DRIVEWAY PAYMENTS 5148 0 0 0 3688 312 60 0 0 0 69 49 2 2531.504 7° CONCRETE DRIVEWAY PAYMENTS 5QYD 1167 0 0 0 1333 123 49 0 0 0 0 0 50 2531.603 CONCRETE DRIVEWAY PAYMENTS 5QYD 1167 0 0 0 1333 123 49 0 0 0 0 51 4,14 2531.618 TRUNCATO DOMES 5QFT 1093 0 0 0 24 40 0 38 0 0 8 8 8 52 20 2535.503 BITUMINOUS CURB LINFT 2265 0 0 0 0 0 0 0 1071 1194 0 53 2540.602 CONSTRUCT SURVEY MONUMENT 1 EACH 3 0 0 0 0 0 0 0 1071 1194 0 54 2540.602 REJCART MAR BOX SUPPORT 1 EACH 39 0 0 0 0 0 0 0 0 0 0 0 0 0 0 55 2554.603 ROTAL GUARDHAR 1 LINFT 150 0 0 0 0 0 0 150 0 0 0 0 0 0 56 2554.603 ROTAL GUARDHAR 1 LINFT 150 0 0 0 0 0 0 150 0 0 0 0 0 0 0 57 2564.502 RISTAL SURVEY MONUMENT 1 LINFT 150 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\overline{}$	_												
49 2 2531.504 7°CONCRETE DRIVEWAYPAWEMENT SQYD 1167 0 0 133 123 49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														
SO 2531.603 CONCRETE CURB DESIGNV	_													
51 4,14 2531.618 TRUNCATED DOMES SQFT 1093 0 0 24 40 38 0 8 8 8		-												
S2 20 2535.503 BITUMINOUS CURB LINFT 2265 0 0 0 0 0 0 0 1071 1194 0		4,14												
S3 2540.602 CONSTRUCT SURVEY MONUMENT EACH 3 0 0 0 0 0 0 0 0 0														
SS 2554.502 END TREATMENT-ENERGY ABSORBING TERMINAL EACH 2 0 0 0 0 0 2 0 0 0	53		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	3	0	0	0	0	0	0	0	0
55 2554.502 END TREATMENT-ENERGY ABSORBING TERMINAL EACH 2 0 0 0 0 2 0 0 0 56 2554.603 INSTALL GUARDRAIL LINFT 150 0 0 0 0 150 0 0 0 57 2563.601 TRAFFIC CONTROL LUMP SUM 1 0.04												0	0	
56 2554.603 INSTALL GUARDRAIL LINFT 150 0 0 0 150 0 0 0 57 2563.601 TRAFFIC CONTROL LUMP SUM 1 0.04													0	
58 19 2564.502 INSTALL SIGN TYPE C EACH 4 0 <t< td=""><td>56</td><td></td><td></td><td></td><td>LINET</td><td>150</td><td>Ô</td><td>0</td><td>0</td><td>0</td><td>150</td><td>0</td><td>0</td><td>0</td></t<>	56				LINET	150	Ô	0	0	0	150	0	0	0
59 2574.507 COMMON TOPSOIL BORROW CU YD 114 0	57		2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
60 2575.601 EROSION CONTROL LUMP SUM 1 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.	58	19	2564.502	INSTALL SIGN TYPE C	EACH	4	Ó	0	0	0	0	0	Û	0
61 2582.503 4°SOLID LINE PAINT LINET 24681 1462 0 0 0 115 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	59		2574.507	COMMON TOPSOIL BORROW	CUYD	114	0	0	0	0	0	0	0	0
62 2582.503 12"SOLID LINEPAINT LINET 576 0 0 0 161 0 0 0 0	60		2575.601	EROSION CONTROL	LUMP SUM	1	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
	61		2582.503	4" SOLID LINE PAINT	LINFT	24681	1462	0	0	0	115	0	0	0
63 2582.503 24"SOLID LINE PAINT LINET 445 156 0 11 34 32 0 0 0	62		2582.503	12*SOLID LINE PAINT	LINFT	576		0	0	161	0	0	0	0
	63		2582.503	24" SOLID LINE PAINT	LINFT	445		0			32	0	0	0
64 2582.503 4"DOUBLESOLID LINEPAINT LINET 18185 1257 0 1121 828 514 0 0 0													_	
65 2582.518 PAVEMENT MESSAGE PAINT SQFT 201 182 0 0 0 19 0 0 0	-				_									
66 2582.518 CROSSWALK PREF THERMOGR IN SQFT 936 0 0 0 0 0 0 0	66		2582.518	CROSSWALK PREF THERMO GR IN	SQFT	936	0	0	0	0	0	0	0	0

I HEREBY CERTIFY THAT THIS PLAN 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.

Jeffrey S. Goetzman

TYPE NAME

DATE: 04/15/2021 LIC. NO: 26422



CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 211
DULUTH, MN 55802

	2021 01111111	STREET PRESERVATION		DRAI	WN BY:		TSM	
	2021 DOLOTH	STREET FRESERVATION		STATEMENT OF	ESTIMAT	ED QUA	NTITIES-3 OF	4
CITY PROJECT NO.:	1693	STATE AID PROJECT NO.:	N/A	SHEET	NO.	7 OF	172	

MOTH

NO.

4

GENERAL

NOTES

SPEC. NO.

2104.502

2104.509

2104.502

2104.503

2104.503

2021.501 MOBILIZATION

SIGNATURE: _

7		2104.053	REMOVE GUARDRAIL	LINET	150	0	0	0	0	0
8		2104.502	REMOVE SIGN	EACH	1	0	0	0	0	0
9	3	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQYD	1061	0	72	0	84	57
10	3	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQYD	1145	126	879	0	0	24
11	,	2104.504	REMOVE BITUMINOUS PAVEMENT	SQYD	3813	54	0	0	0	3239
_	3	2104.518	REMOVE CONCRETE WALK	SQFT	11404		0	0	787	0
12	3					1155	0	0	21333	0
13		2104.618	REMOVE BRICK PAVERS	SQFT	21333					
14		2105,507 2105,507	COMMON EXCAVATION SELECT GRANULAR BORBOW MOD 7% (CV)	CUYD	3549	0	0	0	0	2970
15		\sim \sim \sim	SUBGRADE PREPARATION TO THE PROPERTY OF THE PR	CUYD	2507	0	0	0	0	2160
16		2112.519		ROAD STA	14	0	0	0	0	12
17	13	2118.507	AGGREGATE SURFACING (LV), CLASS 5	CUYD	706	50	373	104	0	0
18	10	2123.510	MOTOR GRADER	HOUR	12	0	0	0	0	0
19	10	2123.612	COMPACTOR	WEEK	0.5	0	0	0	0	0
20		2130.523	WATER	M GALLON	5	0	0	0	0	0
21	7	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	11969	861	9750	1358	0	0
22		2211.509	AGGREGATE BASE (CV) CLASS 5	CUYD	984	0	0	0	0	810
23	1	2215.504	FULL DEPTH RECLAMATION	SQYD	47874	3444	39000	5430	0	0
24	1,16	2232.504	MILL BITUMINOUS SURFACE (1.5")	SQYD	49533	0	0	0	0	0
25	1,16	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQYD	40200	3444	31326	5430	0	0
26	6	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	9115	345	3909	543	113	486
27	6, 8, 9, 15, 18	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,8)	TON	6482	0	0	0	407	0
28	6, 9, 15, 18	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	12039	620	8205	1141	0	1264
29		2502.503	4" PERF PVC PIPE DRAIN	LINET	2460	0	0	0	0	2310
30	17	2503.503	12" RC PIPE SEWER DES. 3006 CL V	LINFT	377	0	0	0	0	251
31		2503.503	18" RC PIPE SEWER DES. 3006 CL V	LINFT	229	0	0	0	0	0
32		2503.602	CONNECT TO EXISTING STORM SEWER.	EACH	24	0	0	0	0	11
33	5	2504.602	ADJUST VALVE BOX	EACH	59	Ů.	0	0	0	3
34		2504.602	ADJUST CURB STOP	EACH	6	0	0	0	0	0
35		2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	5	3	2	0	0	0
36	17	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	EACH	2	0	0	0	0	0
37	17	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN G	EACH	13	0	0	0	0	9
38	17	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EACH	2	0	0	0	0	2
39	17	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	EACH	2	0	0	0	0	2
40		2506.502	CASTING ASSEMBLY	EACH	21	0	0	0	0	13
41		2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LINET	4	0	0	0	0	0
42	12	2506.602	ADJUST FRAME RING & CASTING	EACH	60	6	0	0	2	0
43		2506.602	GRATE CASTING SPECIAL	EACH	1	0	0	0	0	0
44	11	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	30	0	0	0	0	3
45		2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	3	3	0	0	0	0
46	2,4,14	2521.518	4" CONCRETE WALK	SQFT	9375	529	0	0	1172	0
47			6" CONCRETE WALK			339	0	0	634	6930
	2,4,14	2521.518		SQFT	12125					
48	4	2531.503	CONCRETE CURB & GUTTER DESIGN 8624	LINFT	5148	175	0	0	176	2310
49	2	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQYD	1167	0	0	0	84	81
50		2531.603	CONCRETE CURB DESIGN V	LINFT	22	0	0	0	0	0
51	4,14	2531.618	TRUNCATED DOMES	SQFT	1093	73	0	0	104	24
52	20	2535.503	BITUMINOUS CURB	LINFT	2265	0	0	0	0	0
53			CONSTRUCT SURVEY MONUMENT	EACH	3	0	0	0	0	0
54			RELOCATE MAIL BOX SUPPORT	EACH	39	0	36	0	0	0
55		2554.502	END TREATMENT-ENERGY ABSORBING TERMINAL	EACH	2	0	0	0	0	0
56		2554.603	INSTALL GUARDRAIL	LINFT	150	0	0	0	0	0
57		2563.601	TRAFFIC CONTROL	LUMPSUM	1	0.04	0.04	0.04	0.04	0.04
58	19	2564.502	INSTALL SIGN TYPEC	EACH	4	1	0	0	0	1
59		2574.507	COMMON TOPSOIL BORROW	CUYD	114	0	0	0	0	0
60		2575.601	EROSION CONTROL	LUMPSUM	1	0.04	0.04	0.04	0.04	0.04
61		2582.503	4" SOLID LINE PAINT	LINFT	24681	0	22922	0	160	22
62		2582.503	12*SOLID LINE PAINT	LINFT	576	122	0	0	293	0
63		2582.503	24" SOLID LINE PAINT	LINFT	445	96	0	0	40	0
64		2582.503	4" DOUBLE SOLID LINE PAINT	LINET	18185	0	11461	0	360	886
65		2582.518	PAVEMENT MESSAGE PAINT	SQFT	201	0	0	0	0	0
		2582.518	CROSSWALK PREF THERMO GR IN	SQFT	936	0	0	0	0	0
66										

ADDENDUM 1 - REVISION DATE: 04/26/2021

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jeffrey S. Goetzman

STATEMENT OF ESTIMATED QUANTITIES DULUTH 2021 STREET PRESERVATION

DULUTH, MINNESOTA

ITEM DESCRIPTION

REMOVE MANHOLE OR CATCH BASIN

REMOVE VALVE BOX

SALVAGE SIGN TYPE C

REMOVE PIPE CULVERTS

REMOVE CURS & GUTTER

LIC. NO: 26422



CITY	0F	DUL	.UTH			
ENGI	NEE	RING	DIVI	SION		
411	W.	1ST	ST.	STE.	211	
DUL	JTH,	MN	55	802		

REMOVE BRICK

/PAVE

NIAKEAVE - 1ST ST

ALLEY TO 2ND STALLEY

0.04

0

0

176

RECLAIM

0.04

0

0

TOTAL ESTIMATED W STOWEST - GRIAK DR

0.04

175

QUANTITY

19

546

5148

UNIT

LUMPSUM

EACH

EACH

EACH

LINET

LINET

NORTON RD -HOWARD
SNESEN RO TO RICE LANE
THURBER RD -NORTON
THURBER RD -NORTON

0.04

0

0

RECONSTRUCT

BURNING TREE RD -MAPLE GROVE RD TO 160 FT SOUTH OF MOUNTAIN

0.04

13

0

251

2310

	2021 DULLITH	STREET PRESERVATION		DRA	WN BY:	T	SM
	2021 DOLUIN	STREET FRESERVATION		STATEMENT OF	ESTIMATED	QUANTI	TIES-4 OF 4
CITY PROJECT NO.:	1693	STATE AID PROJECT NO.:	N/A	SHEET	NO. 8	OF	172

SIGNATURE: _

SURVEYS AND RIGHT OF WAY

GENERAL REQUIREMENTS

THE CONTRACTOR SHALL PRESERVE ALL LAND AND PROPERTY CORNERS, VERTICAL & HORIZONTAL CONTROLS, SURVEY AND RIGHT OF WAY MONUMENTS. THE RIGHT OF WAY SHOWN IN THIS PLAN GIVES A GRAPHICAL LOCATION WITH RESPECT TO THE PLAN ALIGNMENTS. FOR EXACT RIGHT OF WAY LIMITS, SEE MAP ON FILE WITH THE CITY OF DULUTH.

CONSTRUCTION NOTES:

- 1. IN-PLACE BITUMINOUS PAVEMENT AND AGGREGATE BASE THICKNESSES SHOWN IN THIS PLAN ARE APPROXIMATE. VALUES INDICATED IN THE TYPICAL SECTIONS MAY NOT REFLECT ACTUAL FIELD CONDITIONS. DISCREPANCIES FOUND IN THE FIELD SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO COMMENCEMENT OF MILLING AND RECLAIMING OPERATIONS.
- REINFORCING BARS, COMMON EXCAVATION, AGGREGATE BASE, CLASS 5 AND TURF ESTABLISHMENT ARE INCIDENTAL TO THE INSTALLATION OF WALKS, DRIVEWAY APRONS, AND CURB & GUTTER. ALL WALKS WILL INCLUDE A 6" AGGREGATE CLASS 5 BASE. TURF ESTABLISHMENT INCLUDES: SOIL PREPARATION, 4" MIN. COMMON TOPSOIL BORROW, SEED MIXTURE 25–131 (120 LBS/ACRE), AND WATER.
- 3. SAWING PAVEMENT (BITUMINOUS OR CONCRETE) FULL DEPTH IS INCIDENTAL TO REMOVALS.
- I. TEMPORARY PEDESTRIAN ACCESS ROUTES MUST BE MAINTAINED AT ALL TIMES WHILE WORKING ON ADA IMPROVEMENTS. ALL INPLACE PEDESTRIAN ADA RAMPS SHALL BE MADE SAFE FOR CROSSING AT ALL TIMES WITH A BITUMINOUS PATCH RAMP PLACED BETWEEN THE CONCRETE AND BITUMINOUS SURFACES. WORK FOR PLACEMENT, MAINTENANCE AND REMOVAL OF THE BITUMINOUS PATCH RAMP WILL BE CONSIDERED INCIDENTAL.
- 5. ALL VALVE BOX ADJUSTMENTS WILL BE PAID FOR UNDER ADJUST VALVE BOX REGARDLESS OF TYPE OF UTILITY (WATER, GAS, OR SANITARY).
- 6. CALCULATIONS FOR BITUMINOUS PAVING ARE COMPUTED USING 120-LBS/SY/IN. CALCULATIONS FOR TACK COAT ARE COMPUTED USING 0.05 GALLON/SQ YD.
- 7. CALCIUM CHLORIDE QUANTITIES ARE COMPUTED USING AN APPLICATION RATE OF 0.25 GAL/SY. AREA COMPUTATION IS STREET WIDTH BY STREET LENGTH.
- B. DRIVEWAY APRONS ON OVERLAYS SHALL BE TIED BACK INTO EXISTING UTILIZING A TAPER MILLING PROCESS TO ALLOW FOR A SMOOTH AND FLUSH TRANSITION SEE DETAIL 4 ON SHEET 11. TAPER MILLING DRIVEWAY APRONS AND SAWING OF JOINTS SHALL BE INCIDENTAL.
- 9. ALL SIDE STREETS AND BEGINNING AND ENDING TIE-INS TO EXISTING ON RECLAIMS AND OVERLAYS SHALL BE TAPER MILLED AT A DISTANCE REQUIRED TO MAKE A SMOOTH TRANSITION AT A DESIGN SPEED OF 30 MPH (SEE DETAILS 1 AND 2 ON SHEET 11). ALL ROADWAY TAPER MILLS AND SAWING OF JOINTS SHALL BE INCIDENTAL.
- 10. MOTOR GRADER AND COMPACTOR HOURS ARE TO BE PAID TO GRADE AND COMPACT EXISTING GRAVEL ROADS PRIOR TO PAVING AND TO GRADE OUT PARKING AREAS AS CALLED OUT ON THE PLANS. GRADING AND COMPACTION FOR 2 FT SHOULDERS IS INCIDENTAL TO FULL DEPTH RECLAMATION.
- 11. ADJUST FRAME AND RING CASTINGS (SPECIAL) SHALL INCLUDE A CAST IRON ADJUSTMENT RING (NEENAH R-1979 OR ESS BROTHERS) PLACED ON TOP OF THE EXISTING CASTING TO RAISE THE GRADE OF THE COVER TO 3/8" BELOW THE FINISHED PAVEMENT ELEVATION.
- 12. ADJUST FRAME AND RING CASTING INCLUDES ADJUSTING THE ELEVATION OF THE EXISTING MANHOLES AND CATCH BASINS AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH CITY REQUIREMENTS.
- 13. GRAVEL DRIVEWAYS AND GRAVEL ROADWAYS SHALL RECEIVE CLASS 5 TAPERED APRON TO TIE-IN EXISTING DRIVEWAYS AND ROADWAYS TO THE EDGE OF BITUMINOUS PAVEMENT. QUANTITY INCLUDED WITH AGGREGATE SURFACING CLASS 5 BID ITEM.
- 14. ALL PED RAMPS SHALL BE DESIGNED BY THE CONTRACTOR AND CONSTRUCTED TO MEET ADA REGULATIONS. PED RAMP LAYOUTS SHOWN ON PLAN SHEETS ARE SCHEMATIC REPRESENTATIONS OF THE PROPOSED WORK. LAYOUTS SHALL BE MODIFIED WHERE NECESSARY TO MEET ADA GRADES IN THE FIELD.
- 15. ALL SURFACES RECEIVING OR ABUTTING NEW BITUMINOUS PAVEMENT MUST RECEIVE TACK COAT IN ACCORDANCE WITH MNDOT SPECIFICATIONS AND APPLICATION RATES.
- 16. MILLING DEPTHS SPECIFIED ARE APPROXIMATE. ENGINEER RESERVES RIGHT TO MAKE MINOR ADJUSTMENTS TO MILLING DEPTHS WITHOUT RECLASSIFYING PAY ITEM FOR CHANGES IN MILLING DEPTH.
- 17. BEDDING, BACKFILL, GRADING, AND TURF ESTABLISHMENT IS INCLUSIVE TO STORM SEWER WORK. STORM SEWER BEDDING AND BACKFILL TO FOLLOW CITY DETAIL EX-3 FOR CONCRETE AND CORRUGATED STEEL.
- 18. BITUMINOUS QUANTITIES HAVE BEEN CALCULATED USING THE PAVEMENT THICKNESS SHOWN IN THE TYPICAL SECTIONS FOR EACH STREET.

19. ALL SIGNS SHALL BE INSTALLED WITH BREAKAWAY MOUNT POSTS, SEE DETAIL T-2 ON SHEET 29. 20. BITUMINOUS CURB DESIGN D PROFILE, STANDARD PLATE NO. 7000E, TO BE PAVED OR AS DIRECTED BY THE ENGINEER.

ABBREVIATIONS USED IN THIS PLAN

AB = ABANDONED OH = OVERHEAD

EX = EXISTING OR IN-PLACE PL = PLACE

PR = PROPOSED REM = REMOVE

Jeffrey S. Goetzman

TYPE NAME

UG = UNDERGROUND

М	nDOT STANDARD PLATES
'''= ' - ==	OWING STANDARD PLATES SHALL PPLY ON THIS PROJECT
PLATE NO.	DESCRIPTION
4005M	MANHOLE OR CATCH BASIN — PRECAST DESIGN F
4006L	MANHOLE OR CATCH BASIN — PRECAST DESIGNS G & H
4140D	SPECIAL GRATE CASTINGS FOR CATCH BASIN
7000E	INTEGRANT CURBS
7038A	DETECTABLE WARNING SURFACE
7100H	CONCRETE CURB AND GUTTER — DESIGN B AND DESIGN V
7111J	INSTALLATION OF CATCH BASIN CASTINGS
8000J	CHANNELIZERS
8355A	W-BEAM GUARDRAIL
9350A	MAILBOX SUPPORT SWING AWAY TYPE

	CITY OF DULUTH STANDARD DETAILS				
	THE FOLLOWING STANDARD DETAILS SHALL APPLY ON THIS PROJECT				
	DETAIL NO.	DESCRIPTION			
	EX-1	PVC AND CORRUGATED POLYETHYLENE SEWER PIPE BEDDING			
		CONCRETE STORM SEWER BEDDING			
		STORM MANHOLE CASTING			
	STRM-2B	CATCH BASIN/CURB BOX CASTINGS - BICYCLE SAFE			
	STRM-3B	CATCH BASIN CASTINGS			
		FABRIC WRAPPED CATCH BASIN			
		STORM MANHOLE NON-PAVED AREAS			
		CONCRETE ENCASED CASTING COLLAR FOR STORM MH			
		GUTTER SWALE			
	STRM-7	GUTTER STAMP			
SUR-2 ROADWAY		CONCRETE ENCASED CASTING COLLAR IN ROADWAY			
		SIGN & BREAKAWAY MOUNT INSTALLATION			
	W-19	CONCRETE ENCASED VALVE BOX COLLAR			

ADDENDUM 1 - REVISION DATE: 04/26/2021

STATE AID PROJECT NO .:

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EX	SANITARY	MANHOLE	
EX	SANITARY	CLEANOUT	

EX STORM MANHOLE

EX STORM CATCHBASIN

(SAN)

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(W)

(W&G)

(GAS)

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STEAM

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(W)

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(H.H.)

EX WATER MANHOLE

EX WATER VALVE

EX WATER HYDRANT

EX. WATER SHUTOFF

EX. WATER & GAS MH

EX. GAS MANHOLE

EX. GAS VALVE

EX. GAS SHUTOFF

EX. STEAM MANHOLE

EX. TELEPHONE MANHOLE

EX. ELECTRIC MANHOLE

EX. UTILITY POLE

EX. LIGHT POLE

EX. ELECTRIC VAULT
EX. GUY ANCHOR

EX. ELECTRIC TRANSFORMER

EX. STREET LIGHT

EX. SIGNAL W/STREET LIGHT

EV HAND HOLE

EX. HAND HOLE

EX. TELEPHONE PEDESTAL

EX. WELL EX. SIGN

EX. DECIDUOUS TREE

EX. CONIFEROUS TREE

EX. PARKING METER

BENCHMARK

CONTROL POINT

FOUND REBAR MONUMENT

FOUND CHISELED X MONUMENT

SOIL BORING



I HEREBY CERTIFY THAT THIS PLAN 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.

DATE: <u>04/15/2021</u> LIC. NO: <u>26422</u> - DULUTH

CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 211
DULUTH, MN 55802

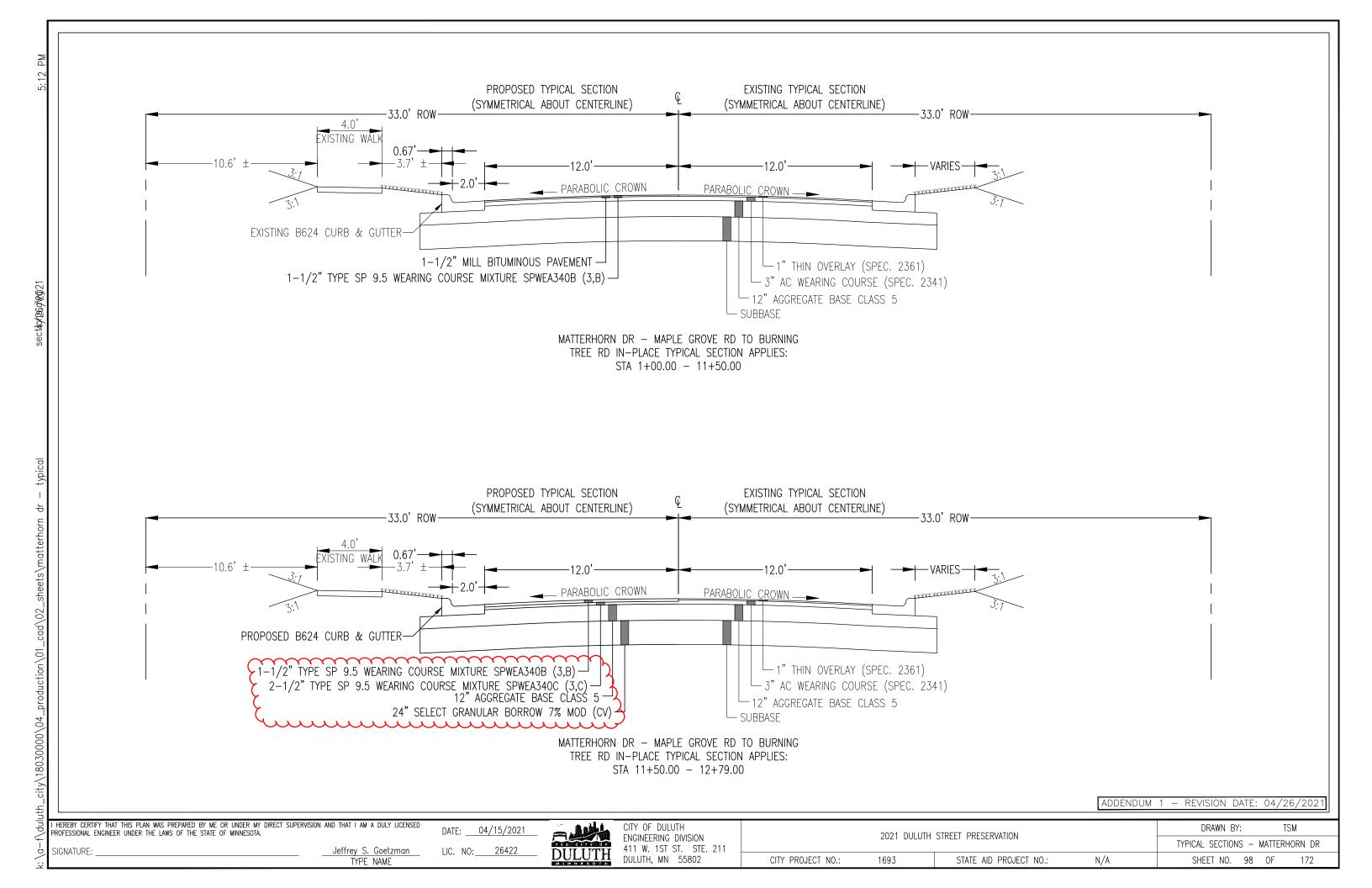
2021 DULUTH STREET PRESERVATION

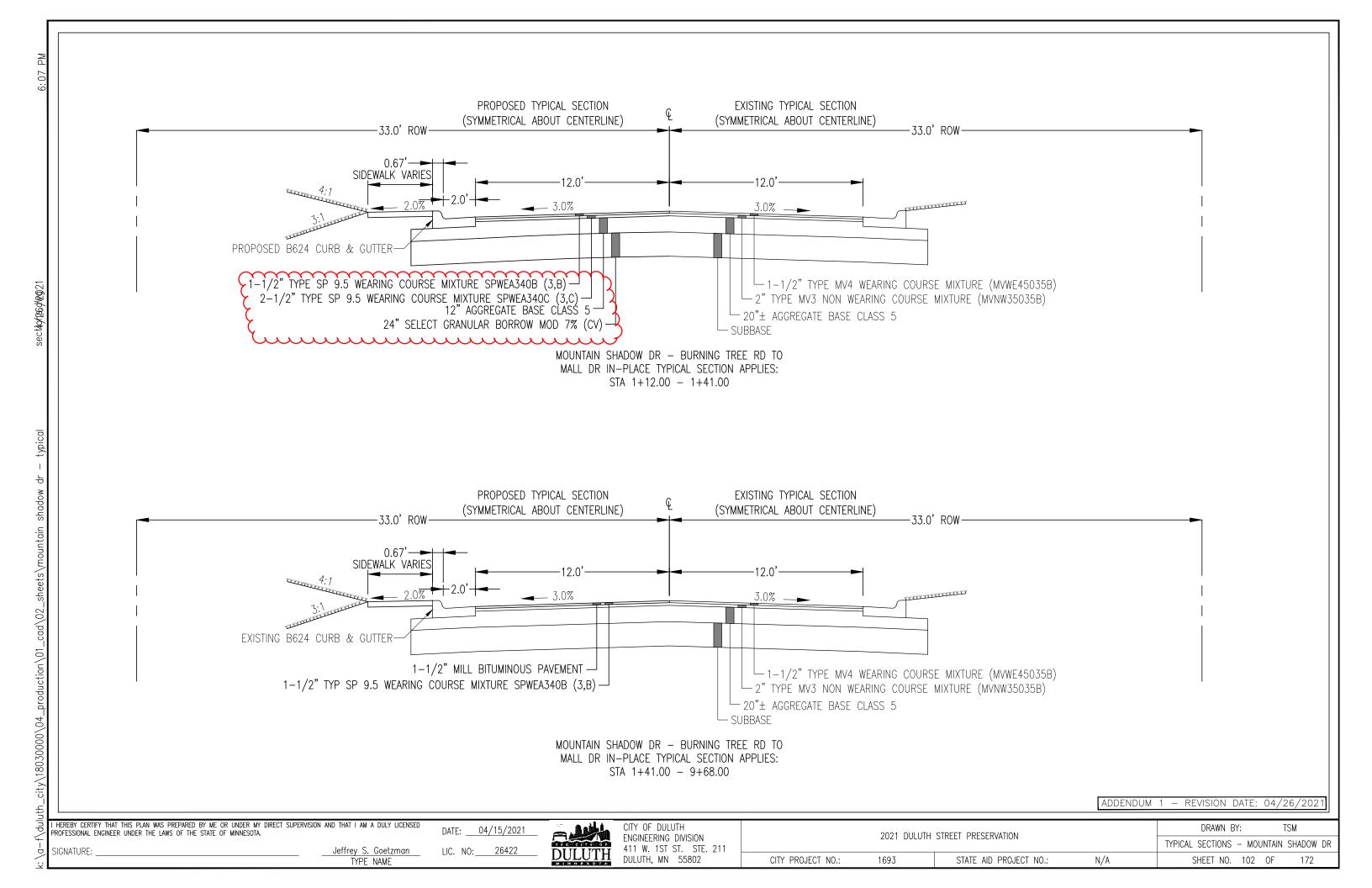
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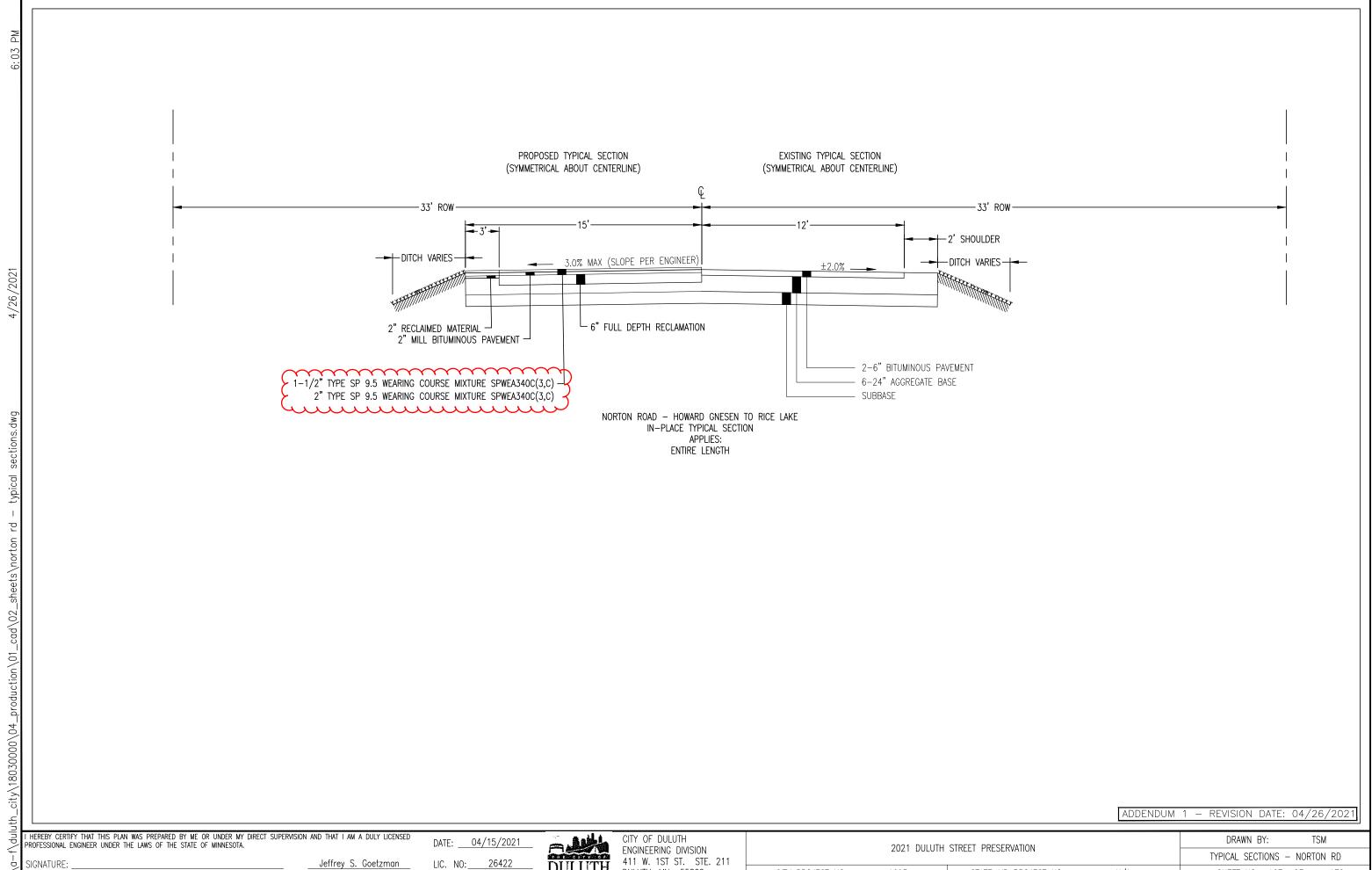
TSM TES-INDEX

LEGEND-NOTES-INDEX
SHEET NO. 9 OF 172

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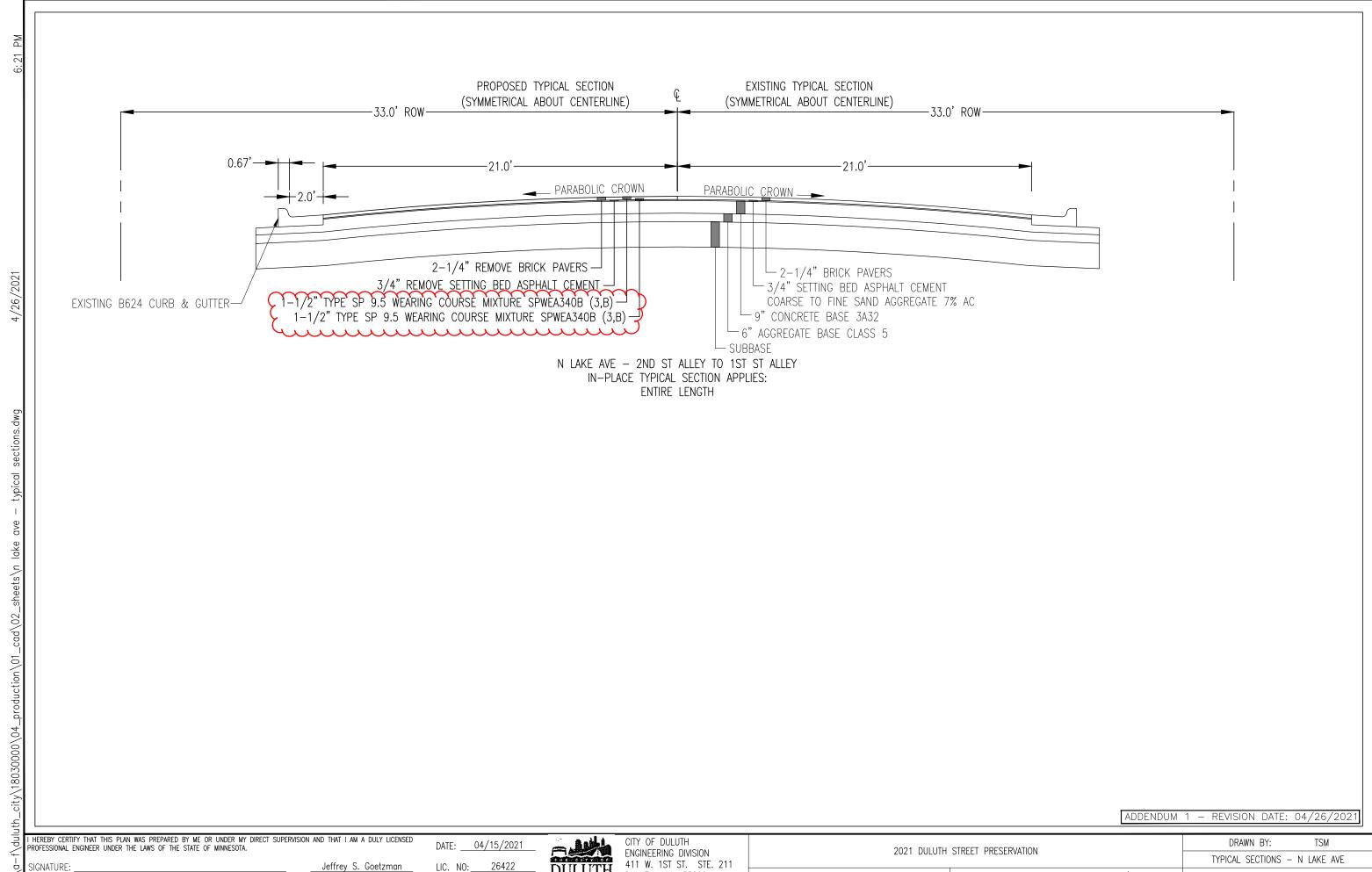
Jeffrey S. Goetzman

LIC. NO: 26422

411 W. 1ST ST. STE. 211 DULUTH, MN 55802

CITY PROJECT NO .: 1693

SHEET NO. 127 OF STATE AID PROJECT NO .: N/A



Jeffrey S. Goetzman TYPE NAME

LIC. NO: 26422

DULUTH, MN 55802

CITY PROJECT NO .: STATE AID PROJECT NO .: SHEET NO. 145 OF 1693 N/A

