



**CITY OF DULUTH**  
PURCHASING DIVISION  
Room 100 City Hall  
411 West First Street  
Duluth, Minnesota 55802-1199  
218/730-5340 218/730-5922 FAX  
[purchasing@duluthmn.gov](mailto:purchasing@duluthmn.gov)

**Addendum #1**  
**Bid 21-99581**  
**2021 Citywide Guardrail Repair & Replacement**  
**Project:1991**

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

**1) Drawings**

**Replace** the following sheets in the plan set.

Sheets 2, 3, 4, and 5. Replaced to edit quantities to Line No. 6, 7, 11 & 12.

**2) SPECIFICATIONS**

**REVISED** the following line items to Exhibit A

6	2104.502	REMOVE ENERGY ABSORBING TERMINAL	EACH	20
7	2104.502	SALVAGE ENERGY ABSORBING TERMNAL	EACH	18
11	2554.502	ENERGY ABSORBING TERMINAL	EACH	53
12	2554.502	INSTALL ENERGY ABSORBING TERMINAL	EACH	18

Please acknowledge receipt of this Addendum by initialing and dating Addendum #1 below the bid form on the invitation for bids.

Posted Date. 8/4/2021

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STATEMENT OF ESTIMATED QUANTITIES						PROJECT TOTAL
LINE	NOTES	CHART	SPEC. NO	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1			2021.501	MOBILIZATION	LUMP SUM	1
2	2	A	2104.502	REMOVE ANCHORAGE ASSEMBLY - PLATE BEAM	EACH	16
3	1	A	2104.502	REMOVE TWISTED END TREATMENT	EACH	12
4	2	A	2104.502	REMOVE SIGN TYPE C	EACH	7
5	1	A	2104.502	REMOVE ECCENTRIC LOADER ELT	EACH	5
6		A	2104.502	REMOVE ENERGY ABSORBING TERMINAL	EACH	20
7		A	2104.502	SALVAGE ENERGY ABSORBING TERMNAL	EACH	18
8	1, 3	A	2104.503	REMOVE CABLE GUARDRAIL	LIN FT	300
9	4	A	2104.503	REMOVE GUARDRAIL - PLATE BEAM	LIN FT	8 187
10	5	A	2554.602	ADJUST ENERGY ABSORBING TERMINAL	EACH	28
11		A	2554.502	ENERGY ABSORBING TERMINAL	EACH	53
12		A	2554.502	INSTALL ENERGY ABSORBING TERMINAL	EACH	18
13	8	A	2554.503	PLATE BEAM GUARDRAIL	LIN FT	3 300
14	6	A	2554.503	TRAFFIC BARRIER DESIGN B8338	LIN FT	750
15	7	A	2554.503	TRAFFIC BARRIER DESIGN TYPE 31	LIN FT	4 200
16	9		2563.601	TRAFFIC CONTROL	LUMP SUM	1
17		A	2564.518	SIGN TYPE C	SQ FT	18.5

SEQ NOTES:

- BACKFILL VOIDS IN ACCORDANCE WITH MNDOT 2451.3D.
- ITEM INCLUDES REMOVAL OF ALL WOOD OR METAL POSTS AND BACKFILLING VOIDS IN ACCORDANCE WITH MNDOT 2451.3D
- INCLUDES ALL COMPONENTS OF BARRIER SYSTEM. (CABLE, POSTS, AND END ANCHORAGES)
- ITEM INCLUDES REMOVAL OF WOOD OR METAL POSTS AS DIRECTED BY ENGINEER.
- SEE SPECIAL PROVISION SP-18 FOR DETAILS.
- TRAFFIC BARRIER AT N. 38TH AVE. W. (50 LF) INCLUDES 2 FLARED END TERMINALS. INCIDENTAL
- END TREATMENT TERMINAL DETAILS ON SHEETS 6-7
- ITEM INCLUDES INSTALLATION OF WOOD OR METAL POSTS AS DIRECTED BY ENGINEER..
- SEE SPECIAL PROVISION SP-19

STANDARD PLATES	
THE FOLLOWING STANDARD PLATES APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT	
PLATE NO.	DESCRIPTION
8000	CHANNELIZERS
8307	W-BEAM GUARDRAIL & END ANCHORAGES (INSTALLATION WITH WOOD POSTS)
8338	W-BEAM GUARDRAIL & END ANCHORAGES (INSTALLATION WITH STEEL POSTS)
8355	W-BEAM GUARDRAIL
8360	GUARDRAIL POST LENGTH MARKING
8361	GUARDRAIL STEEL POST
8366	72" FOUNDATION TUBE
8368	CRT WOOD POST
8369	GUARDRAIL BLOCKOUT

GENERAL NOTES:

- THE LOCATIONS FOR SUBSURFACE UTILITIES HAVE NOT BEEN IDENTIFIED IN.THIS PLAN. IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY, LOCATE & PROTECT ANY SUBSURFACE UTILITIES IN THIS PROJECT.
- THE ENGINEER WILL STAKE ALL NEW GUARDRAIL INSTALLATIONS.
- TURF ESTABLISHMENT AND EROSION CONTROL SHALL BE INCIDENTAL AND APPLIED TO ALL DISTURBED AREAS IN ACCORDANCE WITH MNDOT 2575.

ADDENDUM NO. 1 - 08/04/2021

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.

SIGNATURE: 

THOMAS PAUL DESMARAIS  
TYPE NAME

DATE: 7-22-2021

LIC. NO: 53121



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

2021 CITYWIDE GUARDRAIL REPAIR & REPLACEMENT

CITY PROJECT NO.: 1991

STATE AID PROJECT NO.: N/A

DRAWN BY: DJK

STATEMENT OF ESTIMATED QUANTITIES

SHEET NO. 2 OF 16

TRAFFIC BARRIER																		A	
SITE LOCATION	SITE #	LANE DIR	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2554	SPEC. 2554	SPEC. 2554	SPEC. 2554	SPEC. 2554	SPEC. 2554	SPEC.2564	REMARKS
			REMOVE ANCHORAGE ASSEMBLY - PLATE BEAM	REMOVE TWISTED END TREATMENT	REMOVE SIGN TYPE C	REMOVE ECCENTRIC LOADER ECT	REMOVE ENERGY ABSORBING TERMINAL	SALVAGE ENERGY ABSORBING TERMINAL	REMOVE CABLE GUARDRAIL	REMOVE GUARDRAIL PLATE BEAM (INC_POSTS)	ADJUST ENERGY ABSORBING TERMINAL	ENERGY ABSORBING TERMINAL	INSTALL ENERGY ABSORBING TERMINAL	PLATE BEAM GUARDRAIL	TRAFFIC BARRIER DESIGN B8338	TRAFFIC BARRIER DESIGN TYPE 31	SIGH TYPE C		
			EACH	EACH	EACH	EACH	EACH	EACH	LIN FT	LIN FT	EACH	EACH	EACH	LIN FT	LIN FT	LIN FT	SQ FT		
W. GARY ST	1	NB		2						250		2				250	1		
BECKS RD	2	NB						1		25			1	25				WOOD POST-RADIAL	
W. SKYLINE -W-SPRT MT	3	EB	2		2		2			1100		2				1050	1	FULL REPLACEMENT	
W. SKYLINE -SPRT MT	4	EB			1					50	2			50			0.5		
W. SKYLINE @ TH VC W	5	EB							250			2				200	1		
W. SKYLINE @ TH VC E	6	EB	1					1		375			1	350				DELINEATORS ON CURVE ?	
W. SKYLINE @ US 2 E-RW	7	WB			1	1				100		1			75		0.5	CONNECT TO MNDOT RAIL	
W. SKYLINE 620'E US 2	8	EB								50	2			50					
W. SKYLINE @ 2200' E - US 2	9	EB	1		1		1			50	1	1		25			0.5	REPLACE W. ET	
W. SKYLINE @ KEENE CRK	10	EB					2					2		25				REPLACE BOTH ET	
W. SKYLINE @ EARL ST	11	EB		2						130		2				125	1	FULL REPLACEMENT	
W. SKYLINE @ 400' E. OF CLAY	12	EB												50					
W. SKYLINE @ 150' W. VINLAND	13	EB					1	1		50		1	1	50				REPLACE E. ET	
SECTION SUBTOTAL			4	4	5	1	6	3	250	2180	5	13	3	625	75	1625	5.5		
CODY ST. @ 68TH AVE W.	14	WB						1		125	1		1	125					
CODY ST. @ 66-65TH AVE W.	15	EB					1			25		1		25				REPLACE W. ET	
CODY ST. @ 66-65TH AVE W.	16	WB						1		25	1		1	25					
WASECA INDUSTRIAL DR. BR. 9255	17			4						400		4				400	2	MASH COMPLIANT	
WASECA INDUSTRIAL DR. BR. 69607	18			4						400		4				400	2	MASH COMPLIANT	
N. TERMINUS 38TH AVE. W.	19	NB								40					50			2-FES - INCIDENTAL	
W. MICHIGAN @ 44TH AVE W.	20	EB								50				50				WOOD POSTS	
W. MICHIGAN @ 43RD TO 42ND AVE W.	21	EB								100				100				WOOD POSTS	
SECTION SUBTOTAL				8			1	2		1165	2	9	2	325	50	800	4		

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SIGNATURE: Tom Desmarais THOMAS PAUL DESMARAIS  
TYPE NAME

DATE: 7-22-2021  
LIC. NO: 53121



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

2021 CITYWIDE GUARDRAIL REPAIR & REPLACEMENT  
CITY PROJECT NO.: 1991 STATE AID PROJECT NO.: N/A

DRAWN BY: DJK  
CONSTRUCTION CHART  
SHEET NO. 3 OF 16

TRAFFIC BARRIER																		A
SITE LOCATION	SITE #	LANE DIR	SPEC. 2104	SPEC. 2104	SPEC.2104	SPEC.2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2554	SPEC. 2554	SPEC. 2554	SPEC.2554	SPEC. 2554	SPEC. 2554	SPEC.2564	REMARKS
			REMOVE ANCHORAGE ASSEMBLY - PLATE BEAM	REMOVE TWISTED END TREATMENT	REMOVE SIGN TYPE C	REMOVE ECCENTRIC LOADER ECT	REMOVE ENERGY ABSORBING TERMINAL	SALVAGE ENERGY ABSORBING TERMINAL	REMOVE CABLE GUARDRAIL	REMOVE GUARDRAIL PLATE BEAM (INC_POSTS)	ADJUST ENERGY ABSORBING TERMINAL	ENERGY ABSORBING TERMINAL	INSTALL ENERGY ABSORBING TERMINAL	PLATE BEAM GUARDRAIL	TRAFFIC BARRIER DESIGN B8338	TRAFFIC BARRIER DESIGN TYPE 31	SIGN TYPE C	
			EACH	EACH	EACH	EACH	EACH	EACH	LIN FT	LIN FT	EACH	EACH	EACH	LIN FT	LIN FT	LIN FT	SQ FT	
SPRINGVALE - HIGH PARK RD	22	SB					1	1					1					5-POST TERMINAL - 375 LF
HIGH PARK RD. @ PIEDMONT AVE.	23	EB								75		2				50		3-POST END TERMINALS
SKYLINE PKWY @ NE END OF BR. # 69123	24	WB				1				75		1		75			0.5	NEW ET
SKYLINE PKWY @ SE END OF BR. # 69123	25	EB				1				25		1		25			0.5	NEW ET
24TH AVE W. @ SKYLINE DR.	26	SB								65	1	1				50	0.5	CONNECT TO CONC BARRIER
24TH AVE W. @ 1100 BLOCK	27	SB								37	2	2				75	1	UPSTREAM TAN OFFSET
W. 3RD ST. BETWEEN 18TH & 17TH AVE W.	28	EB								75				75				WOOD POST
18TH AVE .W @ PIEDMONT AVE.	29	SB								50								DELINEATORS
COURTLAND ST. @ 27TH AVE W.	30	WB								25				25				WOOD POST
27TH AVE. W. COURTLAND TO WLSSD	31	SB	2							250		2				200	1	
PORT TERMINAL RD. N	32	SB						1		75	1		1	75				(S) TERMINAL REPLACE
PORT TERMINAL RD. S	33	SB						1		50			1	50				
10TH AVE. W. @ SKYLINE	34	SB					1			75		1		50			1	
CENTRAL ENT.- E. SKYLINE DR. TO E. 6TH ST	35	SB				2				1100		2				1050	1	FULL REPLACEMENT
10TH ST. @ 6TH AVE E.	36	WB								25				25				RAIL REPLACEMENT
6TH AVE E. AT E. 9TH ST	37	SB								250		1		225				(S) NEW ET - RAIL REPLACEMENT
SECTION SUBTOTAL			2			4	2	3		2252	4	13	3	625		1425	5.5	
MALL DRIVE - MAPLE GR. TO BURNING TREE	38	WB	1				1			250		1		225	225		0.5	REPLACE W. ET.
MALL DRIVE @ MT SHADOW	39	WB						1		75	1		1	75				RAIL REPLACEMENT
MALL DRIVE - MT SHDW TO DECKER	40	EB	2							150		2				125	1	3-POST TERMINAL
DECKER RD @ MALL DRIVE	41	SB								50				50				
DECKER RD @ MALL DRIVE	42	NB	1							125				75				RAIL REPLACEMENT
ANDERSON RD @ TRINITY	43	EB					2			125		2		150				FULL REPLACEMENT
ANDERSON RD @ TRINITY	44	WB					2			150		2		150				FULL REPLACEMENT
SWAN LAKE RD. N OF STANFORD	45	SB						1		25	1		1	25				(S) ET REINSTALL
SWAN LAKE RD N. OF STANFORD	46	NB					1	1		25		1	1	25				(S) ET REPLACE, (N) ADJUST
WOODLAND AVE. - S. OF PLEASANT VIEW RD.	47	SB								115		2				75		AMITY CREEK CULVERT
WOODLAND AVE. - S. OF PLEASANT VIEW RD.	48	NB	1				1			125		2				150		PARTIAL REMNENTS
ARROWHEAD RD @ 1705 MEDIAN	49	EB	1						1				1					
KENWOOD AVE. N. OF CHESTER CRK	50	NB	2		2		2			350		2		300			1	FULL REPLACEMENT
KENWOOD AVE. S. OF CHESTER CRK	51	NB					1			100	1	1		100				
ST. MARIE ST. AT WALLACE AVE.	52	WB								325		1		125	300		1	PLACE TO CURB
60TH AVE E. @ LAKEWALK ACCESS	53	SB	2						50			1			100			REMOVE CABLE BARRIER
60TH AVE E. @ LAKEWALK ACCESS	54	SB								50								RAIL REPLACEMENT
SECTION SUBTOTAL			10		2		10	4	50	2040	3	17	4	1300	625	350	3.5	

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2021 CITYWIDE GUARDRAIL REPAIR & REPLACEMENT

CITY PROJECT NO.: 1991 STATE AID PROJECT NO.: N/A

DRAWN BY: DJK

CONSTRUCTION CHART

SHEET NO. 4 OF 16


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TRAFFIC BARRIER																		A	
SITE LOCATION	SITE #	LANE DIR	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2104	SPEC. 2554	SPEC. 2554	SPEC. 2554	SPEC. 2554	SPEC. 2554	SPEC. 2554	SPEC. 2564	REMARKS
			REMOVE ANCHORAGE ASSEMBLY - PLATE BEAM	REMOVE TWISTED END TREATMENT	REMOVE SIGN TYPE C	REMOVE ECCENTRIC LOADER ECT	REMOVE ENERGY ABSORBING TERMINAL	SALVAGE ENERGY ABSORBING TERMINAL	REMOVE CABLE GUARDRAIL	REMOVE GUARDRAIL PLATE BEAM (INC_POSTS)	ADJUST ENERGY ABSORBING TERMINAL	ENERGY ABSORBING TERMINAL	INSTALL ENERGY ABSORBING TERMINAL	PLATE BEAM GUARDRAIL	TRAFFIC BARRIER DESIGN B8338	TRAFFIC BARRIER DESIGN TYPE 31	SIGN TYPE C		
			EACH	EACH	EACH	EACH	EACH	EACH	LIN FT	LIN FT	EACH	EACH	EACH	LIN FT	LIN FT	LIN FT	SQ FT		
NB CONGDON BLVD (70TH E.)	55	NB						2		75				2	25				N. END TERMINAL OFF
NB CONGDON BLVD @ CHASE AVE	56	NB								25	1				25				(S) ADJUST
SB CONGDON BLVD @ CHASE AVE	57	SB									2								ADJUST BOTH ET
NB CONGDON BLVD @ 7700	58	NB								50	1				50				(N) ADJUST - (S) REINSTALL
NB CONGDON BLVD @ 7800	59	NB								25	1				25				(N) ADJUST
NB CONGDON BLVD @ 7900	60	NB						1		75	1		1		25				(S) ADJUST (N) REINSTALL
NB CONGDON BLVD @ 8300	61	NB					1			100	1	1			100				(S) REPLACE (N) ADJUST
NB CONGDON BLVD @ 8350	62	NB									1								(S) ADJUST
NB CONGDON BLVD @ 8400	63	NB								25	2				25				ADJUST BOTH ET
SB CONGDON BLVD @ 8400	64	SB								50	1				50				ADJUST (N-E T)
NB CONGDON BLVD @ 8600	65	NB						1		50	1		1		50				(N) ADJUST - (S) REINSTALL
NB CONGDON BLVD @ 8900	66	NB						1		50	1		1		25				(S) REINSTALL - (N) ADJUST
SB CONGDON BLVD @ 8900	67	SB						1		25	1		1		25				(S) ADJUST (N) REINSTALL
SECTION SUBTOTAL							1	6		550	14	1	6	425					
PROJECT TOTAL			16	12	7	5	20	18	300	8187	28	53	18	3300	750	4200	18.5		

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DATE: 7-22-2021

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THOMAS PAUL DESMARAIS  
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2021 CITYWIDE GUARDRAIL REPAIR & REPLACEMENT

CITY PROJECT NO.: 1991

STATE AID PROJECT NO.: N/A

DRAWN BY: DJK

CONSTRUCTION CHART

SHEET NO. 5 OF 16