

SUMMARY

SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING (IV)		SQ. FOOT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING (XI)	524.2	SQ. FOOT
SIGNS-ALUMINUM SHEET INCREMENT SHEETING (IV)		SQ. FOOT
SIGNS-ALUMINUM SHEET INCREMENT SHEETING (XI)		SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL "U"	152	POUNDS
POLES-TREATED WOOD-4" DIA.	276	LINEAR FT.
POLES-TREATED WOOD-5" DIA.	498	LINEAR FT.
POLES-TREATED TIMBER-CLASS 4		LINEAR FT.
POLES-TREATED TIMBER-CLASS 3		LINEAR FT.
POSTS-TUBULAR STEEL (ROUND)		POUNDS
POSTS-TUBULAR STEEL (SQUARE PERFORATED)		POUNDS
POSTS-STRUCTURAL STEEL		POUNDS
OVERHEAD STRUCTURE-METAL-CANTILEVER		EACH
OVERHEAD STRUCTURE-METAL-BRIDGE		EACH
HIGHWAY TRAFFIC STRIPING-WHITE		GAL. (S)
HIGHWAY TRAFFIC STRIPING-YELLOW		GAL. (S)
WORDS & SYMBOLS		GAL. (S)
TYPE 1 DELINEATOR	233	EACH
TYPE 2 DELINEATOR		EACH
PANEL DELIN. "A"	60	EACH
PANEL DELIN. "F"	54	EACH
REMOVE SIGNS	36	EACH
REMOVE SIGNS-GUIDE		EACH
RESET SIGNS		EACH
RESET SIGNS-GUIDE		EACH
FRANGIBLE SIGN POST BREAKAWAY DEVICE-		EACH
FRANGIBLE SIGN POST BREAKAWAY DEVICE-		EACH
SQUARE TUBULAR SLIPBASE BREAKAWAY DEVICE-3"		EACH

3
2
1



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DESIGNED BY:	STEVEN MORANO	7/05/2023
REVIEWED BY:	TYREL MURFITT	1/19/2024
CHECKED BY:	NATHAN STYREN	10/30/2023

SIGNING PLANS
CUSTER COUNTY

JCT MT 59-NORTHEAST (S-489)
UPN 10227000

STPS 489-1(9)0
S1

SIGN LOCATION AND SPECIFICATIONS

REFERENCE POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE			FEET			FEET			SIGN PANEL (SQ. FT.)			TIMBER POLE (LINEAR FT.)		STEEL POST (LBS.)						REMARKS					
				BACK GROUND	LEGEND	CLEARANCE	SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	SUPPORT LENGTH (ESTIMATED)	SUPPORT LENGTH (INSTALLED)	MOUNTING HEIGHT	FOUNDATION DEPTH	SHEET ALUMINUM	ALUMINUM SHEET INCREMENT	ALUMINUM SHEET OVERLAY	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	BREAK-AWAY REMOVE		SIGNS/GUIDE				
																									REMOVE/RESET	REPLACE/RESET	REFLECTIVITY		
0.006 LT		R1-1																											R1-1 = USE AS IS
0.018 RT		M3-2 M1-12	24X12 24X24			10-0	4" Dia. POLE	12-9		5-0	3-0	2.0 4.0					14								1				REPLACE = M3-2 (EAST) REPLACE = M1-12 (MT489)
0.051 LT		M1-5 W1-7	24X24 21X15			10-0	4" Dia. POLE	13-2		5-0	3-0	4.0 2.2					14								1			REPLACE = M1-5 (MT59) W1-7 - DBL. ARROW	
0.031 RT		N7-1 N7-1p	36x48 36x12			20-0	5" Dia. POLE	17-2		5-1	3-6	12.0 3.0		18											X	1		N7-1 = USE AS IS N7-1p = REPLACE	
0.086 LT		W3-1A W99-1	36x36 REMOVE			10-0	4" Dia. POLE	14-7		5-0	3-0	9.0					16								1		FY	REPLACE = W3-1 REMOVE = W99-1	
0.084 RT		G489-09A	84X24			30-0	4" Dia. POLE	X=13-5 Y=12-9		7-0	3-0	14.0					14 14								1			FY	REPLACE = G489-09A KINSEY 18 - BBR
0.143 LT		M2-1 M1-5	21X15 24X24			10-0	4" Dia. POLE	13-2		5-0	3-0	2.2 4.0					14								1			REPLACE = M2-1 (JCT) M1-5.2 - MT 59	
0.106 RT		R2-1 R2-3b	24X30 24X18			10-0	4" Dia. POLE	13-0		5-7	3-0	5.0 3.0					14								1			REPLACE = R2-1 (70) REPLACE = R2-3b (65)	
0.143 RT		R2-2A	24X30			10-0	4" Dia. POLE	13-0		5-0	3-0	5.0					14								1			REPLACE = R2-2A (65)	
0.319 RT		W1-2R W13-1(65)	30X30 18X18			10-0	4" Dia. POLE	13-10		5-7	3-0	6.2 2.3					14								1		FY	REPLACE = W1-2R, W13-1 FROM 0.220	
0.365 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.395 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.425 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.474 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.504 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.534 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.598 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.628 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.658 LT		W1-2L W13-1 (65)	30X30 18X18			10-0	5" Dia. POLE	16-0		5-7	3-6	6.2 2.3					14									X		FY	REPLACE = W1-2R, W13-1 FROM 51+71.29
0.754 RT		W1-2R W13-1(65)	30X30 18x18			10-0	4" Dia. POLE	13-10		5-7	3-0	6.3 2.3					14											FY	NEW= W13-1(65), W1-2L
0.801 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.839 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.877 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.915 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.953 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
0.991 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
1.0 RT		D10-2	10X27 10X27			4-0	2LB/FT STEEL U	9-6		4-0	3-0	1.9 1.9								19				1				REPLACE = REF. POST (1)	
1.029 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4		5-0	3-6	5.0 5.0					14											FY	NEW= (2) CHEVRONS
1.057 LT		W1-2R W13-1(65)	30x30 18x18			10-0	4" Dia. POLE	13-10		5-7	3-0	6.3 2.3					14											FY	NEW = W1-2(65)
1.455 RT		FWP-1	BY OTHERS																										FWP-1 = USE AS IS
1.478 RT		R1-1	30x30			6-0	4" Dia. POLE	11-6		5-0	3-0	5.2					12								1			REPLACE = R1-1	

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

X = STANDARD BREAKAWAY DEVICE:
-FOR WOOD POST SEE DETAILED DRAWING 619-20.
-FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

BBR = BACKBRACING REQUIRED:
-FOR WOOD POST 2" x 4" REQ' D.
-FOR STRUCTURAL STEEL 2" x 2" x 1/4" ANGLE IRON REQ' D.

MOUNTING HEIGHT REQUIREMENTS:
MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAILED DRAWINGS 619-00 & 619-08.

ALL SIGNING NOT LISTED ON SPECIFICATION SHEETS ARE TO BE USE AS IS.

Adapt-A-Highway Signing
Contractor will confirm that the group name on the sign(s) currently existing at the time of construction corresponds to the group name on the sign(s) shown in plans. If name is different, Field Project Manager will contact Traffic & Safety Bureau Signing Section with correct name and a new sign design will be provided.

SIGN LOCATION AND SPECIFICATIONS

REFERENCE POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE			FEET				SIGN PANEL (SQ. FT.)				TIMBER POLE (LINEAR FT.)		STEEL POST (LBS.)					REMARKS				
				BACK GROUND	LEGEND	CLEARANCE	SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	SUPPORT LENGTH (ESTIMATED)	SUPPORT LENGTH (INSTALLED)	MOUNTING HEIGHT	FOUNDATION DEPTH	SHEET ALUMINUM	ALUMINUM SHEET INCREMENT	ALUMINUM SHEET OVERLAY	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL		"U" POST	BREAK-AWAY	REMOVE RESET	SIGNS/GUIDE REMOVE RESET
1.917 RT		W11-3 W7-3aP	30x30 18x18			10-0	4" Dia. POLE	13-10	5-7	3-0	6.3 2.3				14											REPLACE = W11-3, W7-3aP
2.002 LT		N7-1 N7-1p	36x48 36x12			20-0	5" Dia. POLE	17-2	5-1	3-6	12.0 3.0			18							X					N7-1 = USE AS IS N7-1p = REPLACE
2.0 RT		D10-2	10X27 10X27			4-0	2LB/FT STEEL U	9-6	4-0	3-0	1.9 1.9												19	1		REPLACE = REF. POST (2)
2.270 LT		R1-1	30x30			6-0	4" Dia. POLE	11-6	5-0	3-0	5.2			12										1		REPLACE = R1-1
2.344 RT		W1-2R W13-1(65)	30x30 18x18			10-0	4" Dia. POLE	13-10	5-7	3-0	6.3 2.3			14							X					NEW = W1-2R, W13-1
2.416 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X					NEW= (2) CHEVRONS
2.454 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X					NEW= (2) CHEVRONS
2.492 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X					NEW= (2) CHEVRONS
2.530 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X					NEW= (2) CHEVRONS
2.606 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X					NEW= (2) CHEVRONS
2.644 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X					NEW= (2) CHEVRONS
2.682 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X					NEW= (2) CHEVRONS
2.720 RT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X					NEW= (2) CHEVRONS
2.758 LT		W1-2R W13-1(65)	30x30 18x18			10-0	4" Dia. POLE	13-10	5-0	3-0	6.3 2.3			14												NEW = W1-2R, W13-1(65)
3.0 RT		D10-2	10X27 10X27			4-0	2LB/FT STEEL U	9-6	4-0	3-0	1.9 1.9												19	1		REPLACE = REF. POST (3)
3.859 LT		R1-1	30x30			6-0	4" Dia. POLE	14-7	5-0	3-0	5.2			12										1		REPLACE = R1-1
4.0 RT		D10-2	10X27 10X27			4-0	2LB/FT STEEL U	9-6	4-0	3-0	1.9 1.9												19	1		REPLACE = REF. POST (4)
4.574 RT		W1-2R W13-1(65)	30X30 18x18			10-0	4" Dia. POLE	13-10	5-0	3-0	6.2			14										1		NEW = W13-1(65) REPLACE = W1-2R
4.602 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X			1		REPLACE = (2) CHEVRONS
4.640 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X			1		REPLACE = (2) CHEVRONS
4.678 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X			1		REPLACE = (2) CHEVRONS
4.716 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X			1		REPLACE = (2) CHEVRONS
4.754 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X			1		REPLACE = (2) CHEVRONS
4.792 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X			1		REPLACE = (2) CHEVRONS
4.830 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X			1		REPLACE = (2) CHEVRONS
4.868 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X			1		REPLACE = (2) CHEVRONS
4.906 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X			1		REPLACE = (2) CHEVRONS
4.944 LT		(2) W1-8	24x30 24x30			10-0	5" Dia. POLE	12-4	5-0	3-6	5.0 5.0			14							X			1		REPLACE = (2) CHEVRONS

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

STANDARD BREAKAWAY DEVICE:
 -FOR WOOD POST SEE
 -FOR STRUCTURAL STEEL SEE
 X = DETAILED DRAWING 619-20,
 DETAILED DRAWING 619-13.

MOUNTING HEIGHT REQUIREMENTS:
 MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAILED DRAWINGS 619-00 & 619-08.

ALL SIGNING NOT LISTED ON SPECIFICATION SHEETS ARE TO BE USE AS IS.

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 Contractor will confirm that the group name on the sign(s) currently existing at the time of construction corresponds to the group name on the sign(s) shown in plans. If name is different, Field Project Manager will contact Traffic & Safety Bureau Signing Section with correct name and a new sign design will be provided.

SIGN LOCATION AND SPECIFICATIONS

REFERENCE POST	RAMP NO.	SIGN NO.	PANEL SIZE	BACK-GROUND	REFL SHTG TYPE	CLEARANCE	FEET	SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	FEET				SIGN PANEL (SQ. FT.)			TIMBER POLE (LINEAR FT.)		STEEL POST (LBS.)					REMARKS						
											SUPPORT LENGTH (ESTIMATED)	SUPPORT LENGTH (INSTALLED)	MOUNTING HEIGHT	FOUNDATION DEPTH	SHEET ALUMINUM	ALUMINUM SHEET INCREMENT	ALUMINUM SHEET OVERLAY	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	BREAK-AWAY		REMOVE RESET	REMOVE RESET	SIGNS/GUIDE	REFLECTIVITY		
LT 4.972		W1-2L	30X30			10-0		4" Dia. POLE		13-4		5-0	3-0	6.2			14									1				FY	REPLACE = W1-2L
5.0 RT		D10-2	10X27 10X27			4-0		2LB/FT STEEL U		9-7		4-0	3-0	1.9 1.9											19	1				REPLACE = REF. POST (5)	
6.0 RT		D10-2	10X27 10X27			4-0		2LB/FT STEEL U		9-7		4-0	3-0	1.9 1.9											19	1				REPLACE = REF. POST (6)	
7.0 RT		D10-2	10X27 10X27			4-0		2LB/FT STEEL U		9-7		4-0	3-0	1.9 1.9											19	1				REPLACE = REF. POST (7)	
8.0 RT		D10-2	10X27 10X27			4-0		2LB/FT STEEL U		9-7		4-0	3-0	1.9 1.9											19	1				REPLACE = REF. POST (8)	
TOTALS											524.2			276	498					152	36										

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

MOUNTING HEIGHT REQUIREMENTS: MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAILED DRAWINGS 619-00 & 619-08.

ALL SIGNING NOT LISTED ON SPECIFICATION SHEETS ARE TO BE USE AS IS

DELINEATION TABLE	
TYPE 1 DELIN.	233
TYPE 2 DELIN.	0

PANEL DELIN. LEGEND		
	PANEL DES "A"	60
	PANEL DES "F"	54