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SHEET 1

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1/16/2020
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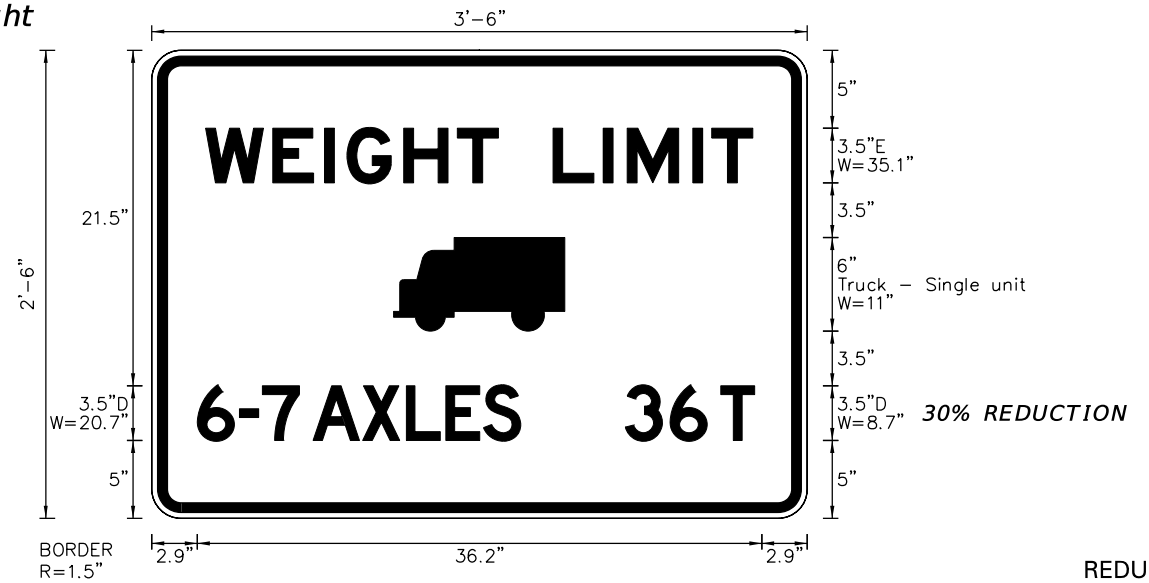
MONTANA MDT DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

3.5" Letter Height



Panel Style: 0_Reg_R-12_3-3.5 E 30+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_3-3.5 E 30+.ssi
Dimensions are in inches.tenths

SIGN NAME: *R12-5_a*

SHT ALUM ☒
ALUM INCR ☐

SIGN DETAIL
1:8

DESIGNED:	*RDS*	DATE:	*12/2020*
CHECKED:	*JHC*	DATE:	*12/2020*

SIGN NUMBER	R12-5_a
WIDTH x HGHT.	3'-6" x 2'-6"
MARGIN	0.38"
BORDER WIDTH	0.63"
CORNER R-DIUS	1.5"
SQ. FEET	8.8 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND	High Intensity *XI*
COLOR:	White
TYPE: LEGEND/BORDER	Reflective
COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	15.5	12	11	6

LETTER POSITIONS (X)

	W	E	I	G	H	T		L	I	M	I	T									LENGTH	SERIES SIZE
3.4	4.3	3.3	1.4	3.6	3.4	2.6	3.5	3.2	1.5	4.2	1.2	2.6	3.5								35.1	E 2000 3.5
	6	-	7		-	X	L	E	S		3	6		T							36.2	D 2000 3.5
2.9	2.7	1.5	2.4	0.9	3.2	2.8	2.5	2.4	2.4	6.7	2.9	2.4	0.9	2.6	2.9							

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SHEET 2

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1/16/2020
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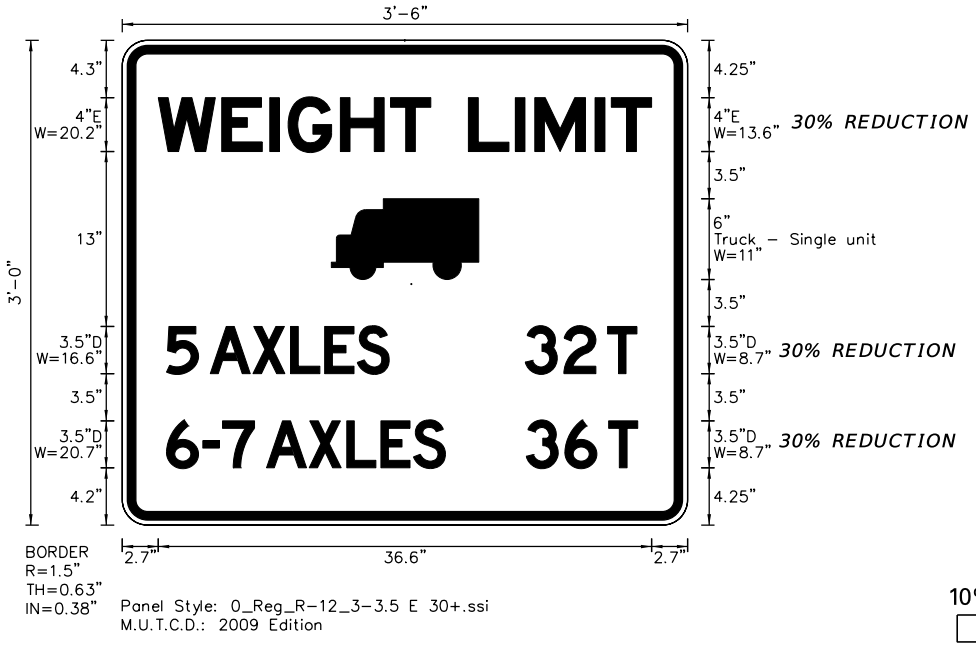
MONTANA MDT DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

3.5" Letter Height



Panel Style: 0_Reg_R-12_3-3.5 E 30+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_3-3.5 E 30+.ssi
Dimensions are in inches. tenths

SIGN NAME: *R12-5_b*

SHT ALUM ☒
ALUM INCR ☐

SIGN DETAIL
1:8

DESIGNED:	*RDS*	D-TE:	*12/2020*
CHECKED:	*JHC*	D-TE:	*12/2020*

SIGN NUMBER	R12-5_b
WIDTH x HGHT.	3'-6" x 3'-0"
MARGIN	0.38"
BORDER WIDTH	0.63"
CORNER R-DIUS	1.5"
SQ. FEET	10.5 Sq.Ft.
MOUNTING	Ground
B-CKGROUND TYPE:	High Intensity *XI*
B-CKGROUND COLOR:	White
LEGEND/BORDER TYPE:	Reflective
LEGEND/BORDER COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	15.5	18.2	11	6

LETTER POSITIONS (X)

																					LENGTH	SERIES SIZE
	W	E	I	G	H	T		L	I	M	I	T									36.6	E 2000 4
2.7	4.7	3.6	1.4	3.9	3.7	3	2.8	3.5	1.4	4.5	1.2	3	2.7									
	5		-	X	L	E	S		3	2		T									35.4	D 2000 3.5
3.3	2.4	0.9	3.2	2.8	2.5	2.4	2.4	10.1	2.9	2.4	0.9	2.6	3.3									
	6	-	7		-	X	L	E	S		3	6		T							35.5	D 2000 3.5
3.3	2.7	1.5	2.4	0.9	3.2	2.8	2.5	2.4	2.4	6	2.9	2.4	0.9	2.6	3.2							

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SHEET 3

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1/16/2020
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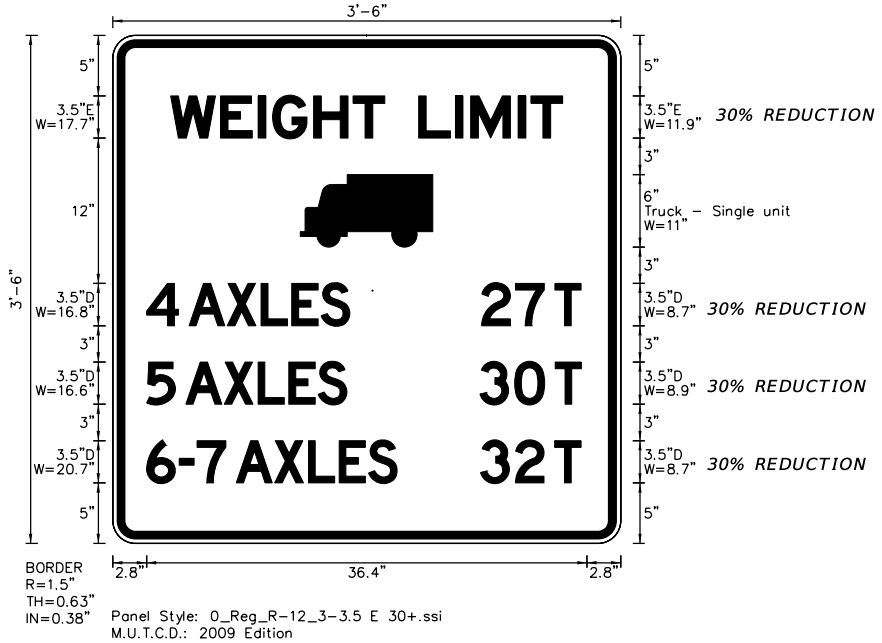
MONTANA MDT DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

3.5" Letter Height



REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_3-3.5 E 30+.ssi
Dimensions are in inches.tenths

SIGN NAME: *R12-5_c*

SHT ALUM ☒
ALUM INCR ☐

SIGN DETAIL
1:8

DESIGNED:	*RDS*	D-TE:	*12/2020*
CHECKED:	*JHC*	D-TE:	*12/2020*

SIGN NUMBER	R12-5_c
WIDTH x HGHT.	3'-6" x 3'-6"
MARGIN	0.38"
BORDER WIDTH	0.63"
CORNER R-DIUS	1.5"
SQ. FEET	12.3 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND COLOR:	High Intensity *XI* White
TYPE: LEGEND/BORDER COLOR:	Reflective Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	15.5	24.5	11	6

LETTER POSITIONS (X)

																					LENGTH	SERIES SIZE
	W	E	I	G	H	T		L	I	M	I	T									32.4	E 2000 3.5
4.8	4.1	3.1	1.2	3.4	3.3	2.6	2.8	3	1.3	3.9	1	2.6	4.8									
	4		-	X	L	E	S		2	7		T									36.4	D 2000 3.5
2.8	2.6	0.9	3.2	2.8	2.5	2.4	2.4	10.9	2.8	2.4	0.9	2.6	2.8									
	5		-	X	L	E	S		3	0		T									36.4	D 2000 3.5
2.8	2.4	0.9	3.2	2.8	2.5	2.4	2.4	11	2.9	2.5	0.9	2.6	2.8									
	6	-	7		-	X	L	E	S		3	2		T								36.4	D 2000 3.5
2.8	2.7	1.5	2.4	0.9	3.2	2.8	2.5	2.4	2.4	6.9	2.9	2.4	0.9	2.6	2.8							

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SHEET 4

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1/16/2020
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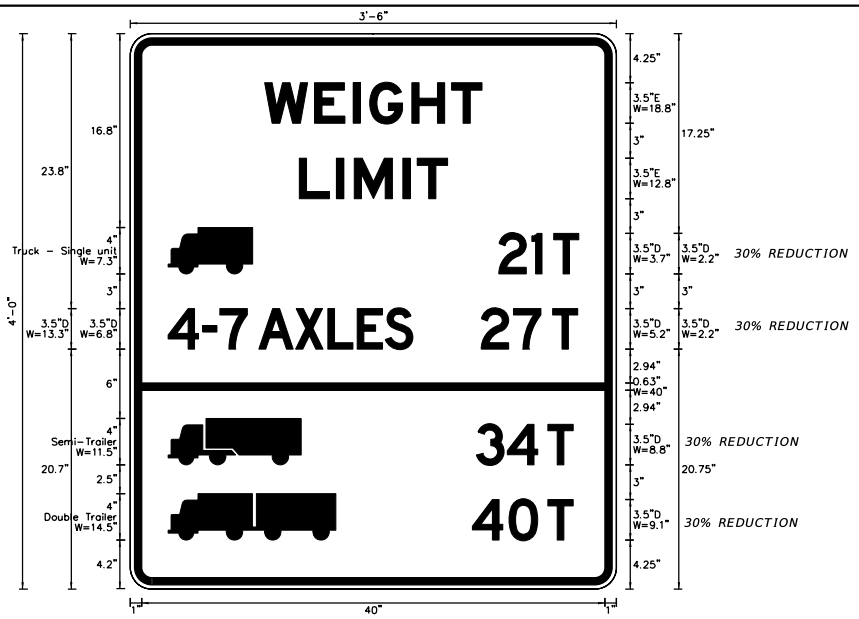
MONTANA MDT DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

3.5" Letter Height



Panel Style: 0_Reg_R-12_3-3.5 E 30+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_3-3.5 E 30+.ssi
Dimensions are in inches. tenths

SIGN NAME: *R12-5_d*

SHT ALUM ☒
ALUM INCR ☐

SIGN DETAIL
1:8

DESIGNED:	*RDS*	D-TE:	*12/2020*
CHECKED:	*JHC*	D-TE:	*12/2020*

SIGN NUMBER	R12-5_d
WIDTH x HGHT.	3'-6" x 4'-0"
MARGIN	0.38"
BORDER WIDTH	0.63"
CORNER R-DIUS	1.5"
SQ. FEET	14.0 Sq.Ft.
MOUNTING	Ground
B-CKGROUND TYPE:	High Intensity *XI*
B-CKGROUND COLOR:	White
LEGEND/BORDER TYPE:	Reflective
LEGEND/BORDER COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	3.3	27.2	7.3	4
Semi-Trailer	0	3.3	10.8	11.5	4
Double Trailer	0	3.3	4.3	14.5	4

LETTER POSITIONS (X)																					LENGTH	SERIES SIZE
	W	E	I	G	H	T															18.8	E 2000 3.5
11.6	4.3	3.3	1.4	3.6	3.4	2.6	11.6															
	L	I	M	I	T																12.8	E 2000 3.5
14.6	3.2	1.5	4.2	1.2	2.6	14.6																
	2	1		T																	6.9	D 2000 3.5
31.8	2.9	0.9	1	2.2	3.3																	
	4	–	7		-	X	L	E	S		2	7		T							35.4	D 2000 3.5
3.3	3	1.5	2.4	1	3.2	2.8	2.5	2.4	2.4	5.9	2.8	2.4	1	2.2	3.3							
	3	4		T																	8.8	D 2000 3.5
29.9	2.7	2.6	0.9	2.6	3.3																	
	4	0		T																	9.1	D 2000 3.5
29.6	3.2	2.5	0.9	2.6	3.3																	

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SHEET 5

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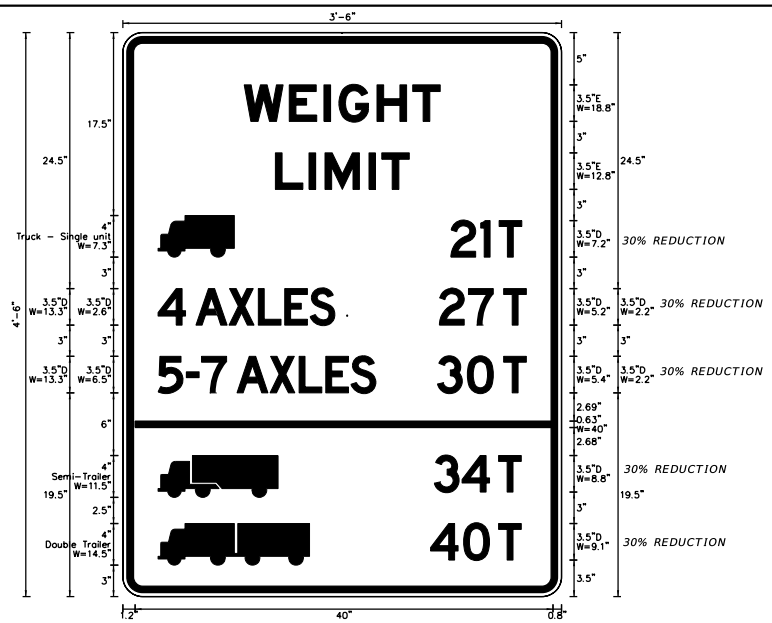
MONTANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

3.5" Letter Height



Panel Style: 0_Reg_R-12_3-3.5 E 30+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_3-3.5 E 30+.ssi
Dimensions are in inches.tenths

SIGN NAME: *R12-5_e*

SHT ALUM ☒
ALUM INCR ☐

SIGN DETAIL
1:8

DESIGNED:	*RDS*	D-TE:	*12/2020*
CHECKED:	*JHC*	D-TE:	*12/2020*

SIGN NUMBER	R12-5_e
WIDTH x HGHT.	3'-6" x 4'-6"
MARGIN	0.38"
BORDER WIDTH	0.63"
CORNER R-DIUS	1.5"
SQ. FEET	15.8 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND	High Intensity *XI*
COLOR:	White
TYPE: LEGEND/BORDER	Reflective
COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	3.4	32.5	7.3	4
Semi-Trailer	0	3.4	9.5	11.5	4
Double Trailer	0	3.4	3	14.5	4

LETTER POSITIONS (X)																					LENGTH	SERIES SIZE
	W	E	I	G	H	T															18.8	E 2000 3.5
11.6	4.3	3.3	1.4	3.6	3.4	2.6	11.6															
	L	I	M	I	T																12.8	E 2000 3.5
14.6	3.2	1.5	4.2	1.2	2.6	14.6																
	2	1		T																	7.2	D 2000 3.5
31.4	2.9	0.9	0.9	2.6	3.4																	
	4		-	X	L	E	S		2	7		T									35.3	D 2000 3.5
3.4	2.6	1	3.2	2.8	2.5	2.4	2.4	10	2.8	2.4	1	2.2	3.4									
	5	–	7		-	X	L	E	S		3	0		T							35.3	D 2000 3.5
3.4	2.7	1.5	2.4	1	3.2	2.8	2.5	2.4	2.4	5.9	2.9	2.5	1	2.2	3.4							
	3	4		T																	8.8	D 2000 3.5
29.8	2.7	2.6	0.9	2.6	3.4																	
	4	0		T																	9.1	D 2000 3.5
29.5	3.2	2.5	0.9	2.6	3.4																	

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SHEET 16

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1/16/2020
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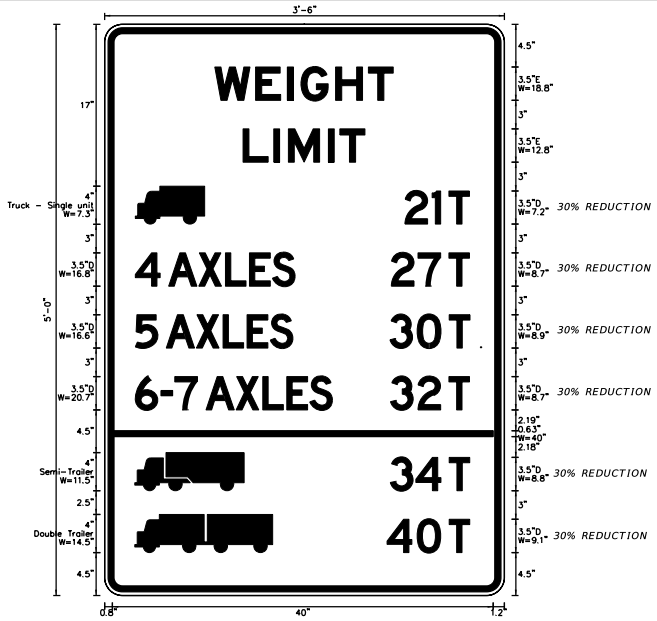
MONTANA MDT DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

3.5" Letter Height



REDUCTION
10% ☐ 20% ☐ 30% ☒

Stations:

Panel Style: 0_Reg_R-12_3-3.5 E 30+.ssi
Dimensions are in inches. tenths

SIGN NAME: *R12-5_f*

SIGN DETAIL
1:8

SIGN NUMBER	R12-5_f
WIDTH x HGHT.	3'-6" x 5'-0"
MARGIN	0.38"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
SQ. FEET	17.5 Sq.Ft.
MOUNTING	Ground

SHT ALUM ☐ ALUM INCR ☒

BACKGROUND
TYPE: High Intensity *XI*
COLOR: White

LEGEND/BORDER
TYPE: Reflective
COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	3.2	39	7.3	4
Semi-Trailer	0	3.2	11	11.5	4
Double Trailer	0	3.2	4.5	14.5	4

LETTER POSITIONS (X)																					LENGTH	SERIES SIZE
	W	E	I	G	H	T															18.8	E 2000 3.5
11.6	4.3	3.3	1.4	3.6	3.4	2.6	11.7															
	L	I	M	I	T																12.8	E 2000 3.5
14.5	3.2	1.5	4.2	1.2	2.6	14.6																
	2	1		T																	7.2	D 2000 3.5
31.6	2.9	0.9	0.9	2.6	3.2																	
	4		-	X	L	E	S		2	7		T									35.6	D 2000 3.5
3.2	2.6	0.9	3.2	2.8	2.5	2.4	2.4	10.1	2.8	2.4	0.9	2.6	3.2									
	5		-	X	L	E	S		3	0		T									35.6	D 2000 3.5
3.2	2.4	0.9	3.2	2.8	2.5	2.4	2.4	10.2	2.9	2.5	0.9	2.6	3.2									
	6	-	7		-	X	L	E	S		3	2		T							35.6	D 2000 3.5
3.2	2.7	1.5	2.4	0.9	3.2	2.8	2.5	2.4	2.4	6.1	2.9	2.4	0.9	2.6	3.2							
	3	4		T																	8.8	D 2000 3.5
30	2.7	2.6	0.9	2.6	3.2																	
	4	0		T																	9.1	D 2000 3.5
29.7	3.2	2.5	0.9	2.6	3.2																	

	LEFT MARGIN	RIGHT MARGIN
LINE 1		
LINE 2		
LINE 3		
LINE 4		
LINE 5		
LINE 6		
LINE 7		
LINE 8		
LINE 9		
LINE 10		
LINE 11		
LINE 12		
LINE 13		

DESIGNED:	*RDS*
DATE:	*12/2020*
CHECKED:	*JHC*
DATE:	*12/2020*

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SHEET 6

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1/16/2020
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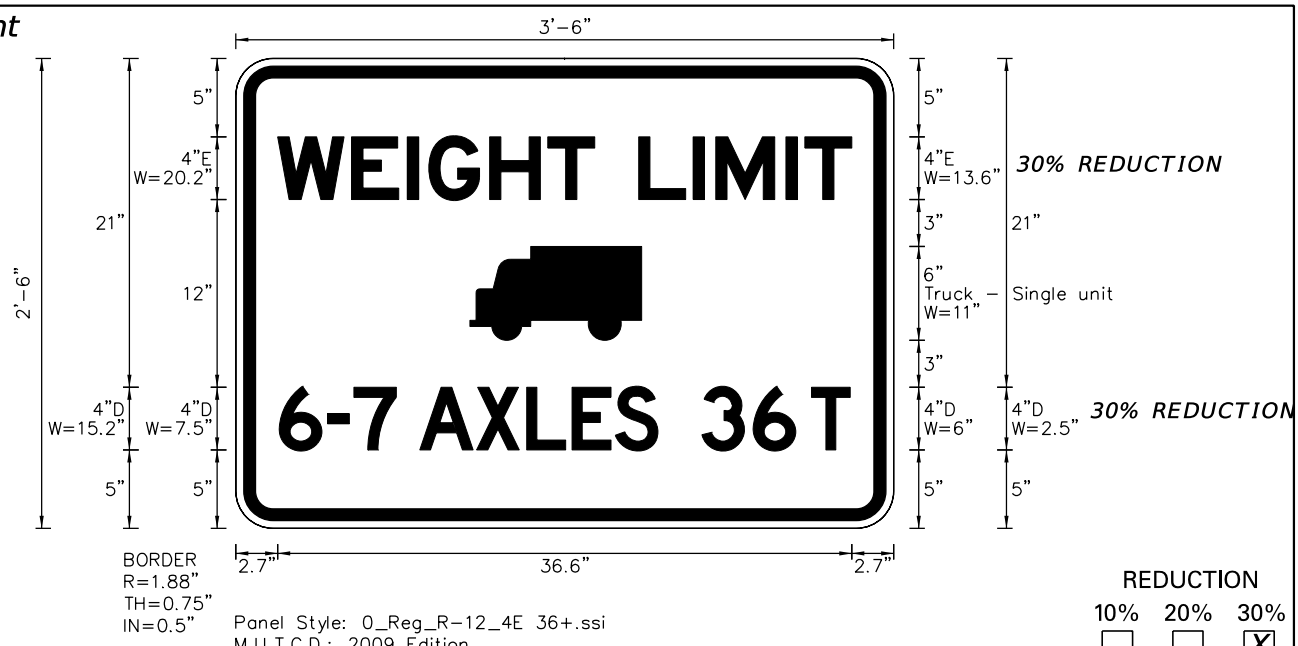
MONTANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

4" Letter Height



Panel Style: 0_Reg_R-12_4E 36+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_4E 36+.ssi
Dimensions are in inches.tenths

SIGN NAME: R12-5_a

SHT ALUM ☒
ALUM INCR ☐

SIGN DETAIL
1:8

DESIGNED:	RDS	D-TE:	12/2020
CHECKED:	JHC	D-TE:	12/2020

SIGN NUMBER	R12-5_a
WIDTH x HGHT.	3'-6" x 2'-6"
MARGIN	0.5"
BORDER WIDTH	0.75"
CORNER R-DIUS	1.88"
SQ. FEET	8.8 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND	High Intensity XI
COLOR:	White
TYPE: LEGEND/BORDER	Reflective
COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	14.9	12	11	6

LETTER POSITIONS (X)

																					LENGTH	SERIES SIZE
	W	E	I	G	H	T		L	I	M	I	T									36.6	E 2000 4
2.7	4.7	3.6	1.4	3.9	3.7	3	2.8	3.5	1.4	4.5	1.2	3	2.7									
	6	-	7		-	X	L	E	S		3	6		T							36.5	D 2000 4
2.8	3.1	1.7	2.7	1.5	3.6	3.2	2.9	2.8	2.7	2.8	3.3	2.7	1	2.5	2.8							

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SHEET 7

1:59:56 PM
1/16/2020
u4044

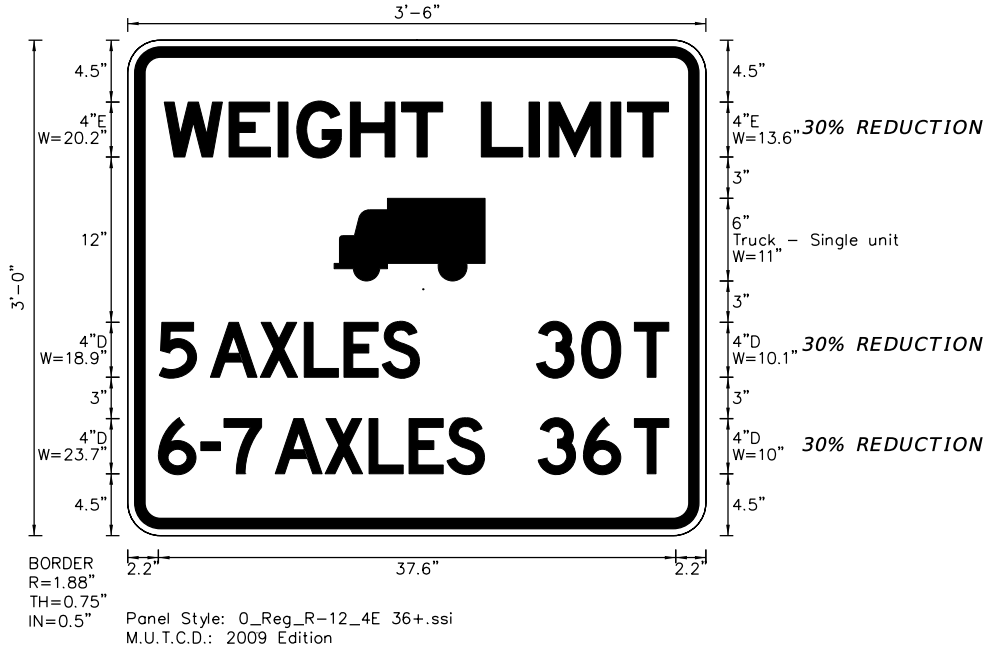
MONTANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

4" Letter Height



Panel Style: 0_Reg_R-12_4E 36+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_4E 36+.ssi
Dimensions are in inches.tenths

SIGN NAME: R12-5_b

SHT ALUM ☒
ALUM INCR ☐

SIGN DETAIL
1:8

DESIGNED:	RDS	D-TE:	12/2020
CHECKED:	JHC	D-TE:	12/2020

SIGN NUMBER	R12-5_b
WIDTH x HGHT.	3'-6" x 3'-0"
MARGIN	0.5"
BORDER WIDTH	0.75"
CORNER R-DIUS	1.88"
SQ. FEET	10.5 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND	High Intensity XI
COLOR:	White
TYPE: LEGEND/BORDER	Reflective
COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	15	18.5	11	6

LETTER POSITIONS (X)

																					LENGTH	SERIES SIZE
	W	E	I	G	H	T		L	I	M	I	T									36.6	E 2000 4
2.6	4.7	3.6	1.4	3.9	3.7	3	2.8	3.5	1.4	4.5	1.2	3	2.7									
	5		-	X	L	E	S		3	0		T									37.5	D 2000 4
2.3	2.7	1	3.6	3.2	2.9	2.8	2.7	8.5	3.3	2.8	1	3	2.2									
	6	-	7		-	X	L	E	S		3	6		T							37.6	D 2000 4
2.2	3.1	1.7	2.7	1	3.6	3.2	2.9	2.8	2.7	3.9	3.3	2.7	1	3	2.2							

C:\dgn\SHV_WeightLmtSISDC001.DGN

SHEET 8

1:59:58 PM
1/16/2020
u4044

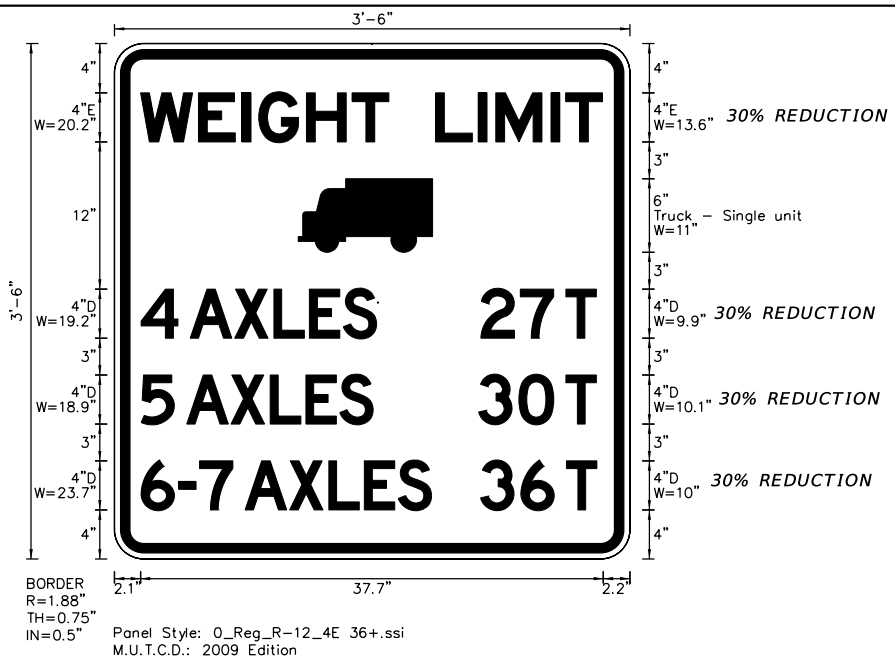
MONTANA MDT DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

4" Letter Height



REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_4E 36+.ssi
Dimensions are in inches.tenths

SIGN NAME: R12-5_c

SHT ALUM ☒
ALUM INCR ☐

SIGN DETAIL
1:8

DESIGNED:	RDS	D-TE:	12/2020
CHECKED:	JHC	D-TE:	12/2020

SIGN NUMBER	R12-5_c
WIDTH x HGHT.	3'-6" x 3'-6"
MARGIN	0.5"
BORDER WIDTH	0.75"
CORNER R-DIUS	1.88"
SQ. FEET	12.3 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND	High Intensity XI
COLOR:	White
TYPE: LEGEND/BORDER	Reflective
COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	15	25	11	6

LETTER POSITIONS (X)

																					LENGTH	SERIES SIZE
	W	E	I	G	H	T		L	I	M	I	T									37.6	E 2000 4
2.1	4.7	3.6	1.4	3.9	3.7	3	3.8	3.5	1.4	4.5	1.2	3	2.2									
	4		-	X	L	E	S		2	7		T									37.6	D 2000 4
2.2	3	1	3.6	3.2	2.9	2.8	2.7	8.5	3.2	2.7	1	3	2.2									
	5		-	X	L	E	S		3	0		T									37.6	D 2000 4
2.2	2.7	1	3.6	3.2	2.9	2.8	2.7	8.6	3.3	2.8	1	3	2.2									
	6	-	7		-	X	L	E	S		3	6		T							37.7	D 2000 4
2.2	3.1	1.7	2.7	1	3.6	3.2	2.9	2.8	2.7	4	3.3	2.7	1	3	2.2							

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SHEET 9

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1/16/2020
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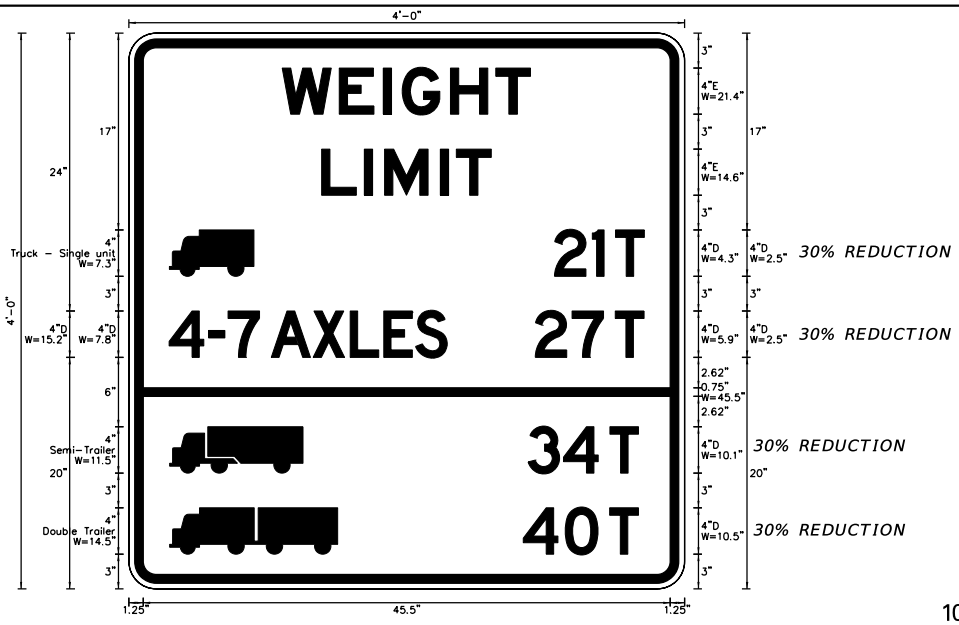
MONTANA MDT DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

4" Letter Height



Panel Style: 0_Reg_R-12_4E 36+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_4E 36+.ssi
Dimensions are in inches. tenths

SIGN NAME: R12-5_d

SHT ALUM ☒
ALUM INCR ☐

SIGN DETAIL
1:8

DESIGNED:	RDS	D-TE:	12/2020
CHECKED:	JHC	D-TE:	12/2020

SIGN NUMBER	R12-5_d
WIDTH x HGHT.	4'-0" x 4'-0"
MARGIN	0.5"
BORDER WIDTH	0.75"
CORNER R-DIUS	1.88"
SQ. FEET	16.0 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND COLOR:	High Intensity XI White
TYPE: LEGEND/BORDER COLOR:	Reflective Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	3.5	27	7.3	4
Semi-Trailer	0	3.5	10	11.5	4
Double Trailer	0	3.5	3	14.5	4

LETTER POSITIONS (X)																					LENGTH	SERIES SIZE
	W	E	I	G	H	T															21.4	E 2000 4
13.3	4.9	3.8	1.6	4.2	3.9	3	13.3															
	L	I	M	I	T																14.6	E 2000 4
16.7	3.7	1.8	4.8	1.4	3	16.7																
	2	1		T																	7.8	D 2000 4
36.8	3.3	1	1	2.5	3.5																	
	4	–	7		-	X	L	E	S		2	7		T							41	D 2000 4
3.5	3.4	1.7	2.7	1	3.6	3.2	2.9	2.8	2.7	7.6	3.2	2.7	1	2.5	3.5							
	3	4		T																	10.1	D 2000 4
34.5	3.1	3	1	3	3.5																	
	4	0		T																	10.5	D 2000 4
34.1	3.6	2.8	1	3	3.5																	

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SHEET 10

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1/16/2020
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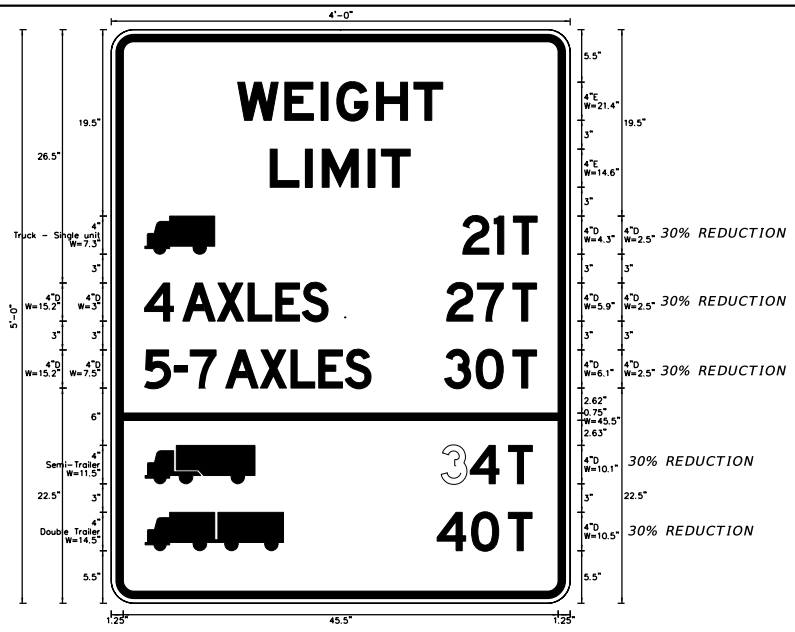
MONTANA MDT DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

4" Letter Height



Panel Style: 0_Reg_R-12_4E 36+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	X

Panel Style: 0_Reg_R-12_4E 36+.ssi
Dimensions are in inches. tenths

SIGN NAME: R12-5_e

SHT ALUM ☐
ALUM INCR X

SIGN DETAIL
1:8

DESIGNED:	RDS	D-TE:	12/2020
CHECKED:	JHC	D-TE:	12/2020

SIGN NUMBER	R12-5_e
WIDTH x HGHT.	4'-0" x 5'-0"
MARGIN	0.5"
BORDER WIDTH	0.75"
CORNER R-DIUS	1.88"
SQ. FEET	20.0 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND COLOR:	High Intensity XI White
TYPE: LEGEND/BORDER COLOR:	Reflective Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	3.5	36.5	7.3	4
Semi-Trailer	0	3.5	12.5	11.5	4
Double Trailer	0	3.5	5.5	14.5	4

LETTER POSITIONS (X)																					LENGTH	SERIES SIZE
	W	E	I	G	H	T															21.4	E 2000 4
13.2	4.9	3.8	1.6	4.2	3.9	3	13.3															
	L	I	M	I	T																14.6	E 2000 4
16.6	3.7	1.8	4.8	1.4	3	16.7																
	2	1		T																	7.8	D 2000 4
36.8	3.3	1	1	2.5	3.5																	
	4		-	X	L	E	S		2	7		T									41	D 2000 4
3.5	3	1	3.6	3.2	2.9	2.8	2.7	12.4	3.2	2.7	1	2.5	3.5									
	5	–	7		-	X	L	E	S		3	0		T							41	D 2000 4
3.5	3.1	1.7	2.7	1	3.6	3.2	2.9	2.8	2.7	7.7	3.3	2.8	1	2.5	3.5							
	3	4		T																	10.1	D 2000 4
34.5	3.1	3	1	3	3.5																	
	4	0		T																	10.5	D 2000 4
34.1	3.6	2.8	1	3	3.5																	

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SHEET 17

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1/16/2020
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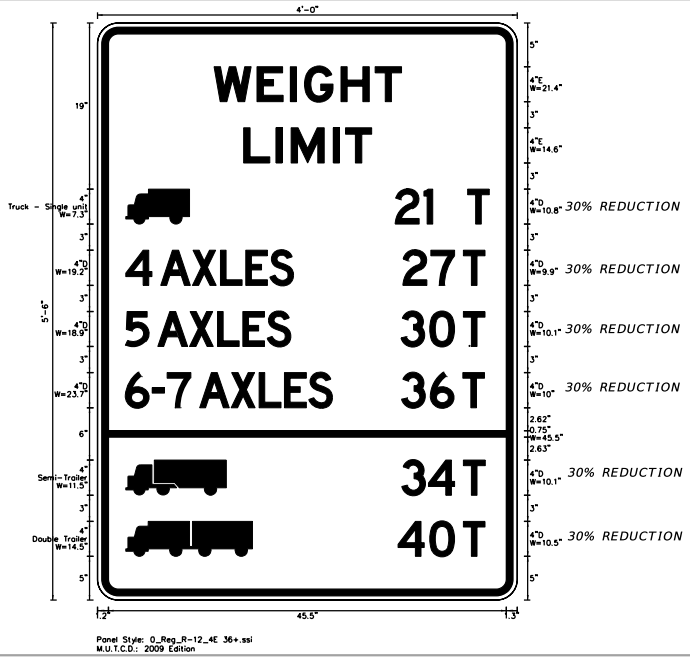
MONTANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

4" Letter Height



Panel Style: 0_Reg_R-12_4E 36+.ssi
M.U.T.C.D.: 2009 Edition

Stations:

REDUCTION

10%	20%	30%
☐	☐	X

Panel Style: 0_Reg_R-12_4E 36+.ssi
Dimensions are in inches. tenths

SIGN NAME: R12-5_f

SIGN DETAIL
1:8

SIGN NUMBER	R12-5_f
WIDTH x HGHT.	4'-0" x 5'-6"
MARGIN	0.5"
BORDER WIDTH	0.75"
CORNER RADIUS	1.88"
SQ. FEET	22.0 Sq.Ft.
MOUNTING	Ground

SHT ALUM ☐ ALUM INCR X

BACKGROUND
TYPE: High Intensity XI
COLOR: White

LEGEND/BORDER
TYPE: Reflective
COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	3.2	43	7.3	4
Semi-Trailer	0	3.2	12	11.5	4
Double Trailer	0	3.2	5	14.5	4

LETTER POSITIONS (X)																				LENGTH	SERIES SIZE
	W	E	I	G	H	T														21.4	E 2000 4
13.3	4.9	3.8	1.6	4.2	3.9	3	13.2														
	L	I	M	I	T															14.6	E 2000 4
16.7	3.7	1.8	4.8	1.4	3	16.6															
	2	1		T																10.8	D 2000 4
34	3.3	1	4	2.5	3.2																
	4		-	X	L	E	S		2	7		T								41.6	D 2000 4
3.2	3	1	3.6	3.2	2.9	2.8	2.7	12.5	3.2	2.7	1	3	3.2								
	5		-	X	L	E	S		3	0		T								41.6	D 2000 4
3.2	2.7	1	3.6	3.2	2.9	2.8	2.7	12.6	3.3	2.8	1	3	3.2								
	6	-	7		-	X	L	E	S		3	6		T						41.6	D 2000 4
3.2	3.1	1.7	2.7	1	3.6	3.2	2.9	2.8	2.7	7.9	3.3	2.7	1	3	3.2						
	3	4		T																10.1	D 2000 4
34.8	3.1	3	1	3	3.2																
	4	0		T																10.5	D 2000 4
34.4	3.6	2.8	1	3	3.2																

	LEFT MARGIN	RIGHT MARGIN
LINE 1		
LINE 2		
LINE 3		
LINE 4		
LINE 5		
LINE 6		
LINE 7		
LINE 8		
LINE 9		
LINE 10		
LINE 11		
LINE 12		
LINE 13		

DESIGNED:	RDS
DATE:	12/2020
CHECKED:	JHC
DATE:	12/2020

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SHEET 11

2:00:03 PM
1/16/2020
u4044

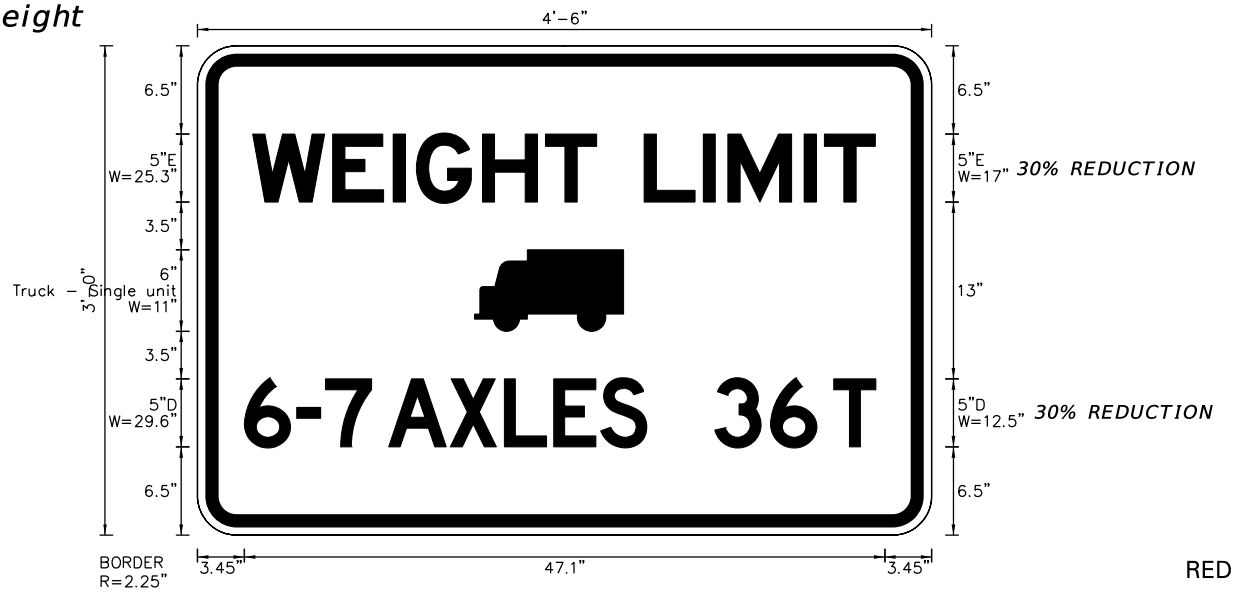
MONTANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

5" Letter Height



Panel Style: 0_Reg_R-12_5E 48+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_5E 48+.ssi
Dimensions are in inches.tenths

SIGN NAME: R12-5_a

SHT ALUM ☐
ALUM INCR ☒

SIGN DETAIL
1:8

DESIGNED:	RDS	D-TE:	12/2020
CHECKED:	JHC	D-TE:	12/2020

SIGN NUMBER	R12-5_a
WIDTH x HGHT.	4'-6" x 3'-0"
MARGIN	0.63"
BORDER WIDTH	0.88"
CORNER R-DIUS	2.25"
SQ. FEET	13.5 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND	High Intensity XI
COLOR:	White
TYPE: LEGEND/BORDER	Reflective
COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	20.4	15	11	6

LETTER POSITIONS (X)

																					LENGTH	SERIES SIZE
	W	E	I	G	H	T		L	I	M	I	T									45.8	E 2000 5
4.1	5.9	4.5	1.7	4.9	4.6	3.8	3.5	4.3	1.8	5.6	1.5	3.8	4.1									
	6	-	7		-	X	L	E	S		3	6		T							47.1	D 2000 5
3.4	3.9	2.1	3.4	1.3	4.5	4	3.6	3.4	3.4	5	4.1	3.4	1.3	3.7	3.4							

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SHEET 12

2:00:05 PM
1/16/2020
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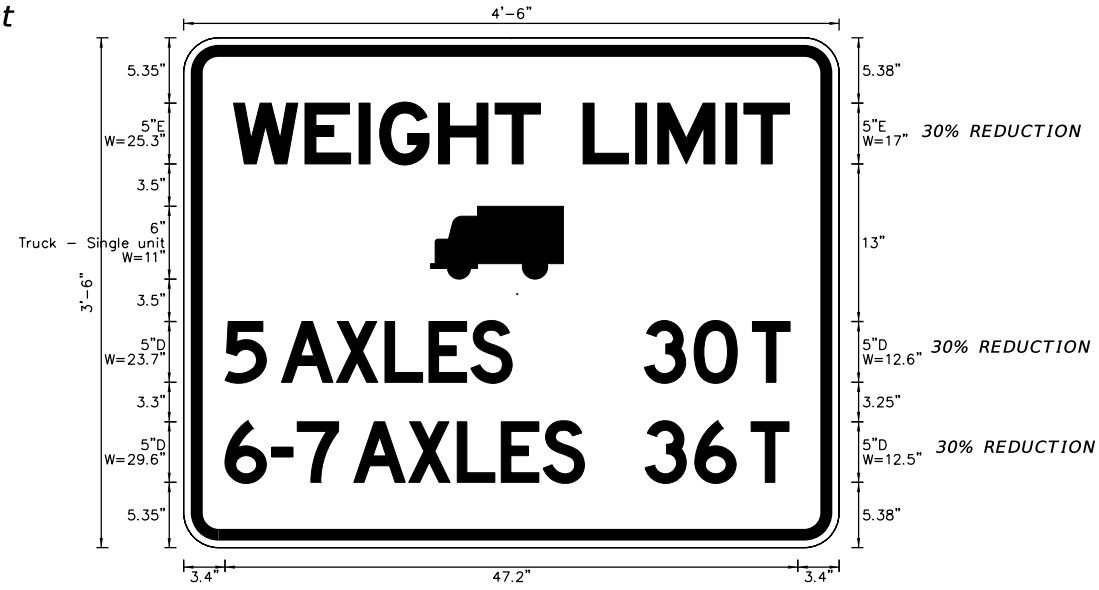
MONTANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

5" Letter Height



Panel Style: 0_Reg_R-12_5E 48+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	X

Panel Style: 0_Reg_R-12_5E 48+.ssi
Dimensions are in inches.tenths

SIGN NAME: R12-5_b

SHT ALUM ☐
ALUM INCR X

SIGN DETAIL
1:8

SIGN NUMBER	R12-5_b
WIDTH x HGHT.	4'-6" x 3'-6"
MARGIN	0.63"
BORDER WIDTH	0.88"
CORNER R-DIUS	2.25"
SQ. FEET	15.8 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND	High Intensity XI
COLOR:	White
TYPE: LEGEND/BORDER	Reflective
COLOR:	Black/Black

DESIGNED: RDS	D-TE: 12/2020
CHECKED: JHC	D-TE: 12/2020

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	20.3	22.1	11	6

LETTER POSITIONS (X)

																					LENGTH	SERIES SIZE
	W	E	I	G	H	T		L	I	M	I	T									45.8	E 2000 5
4.1	5.9	4.5	1.7	4.9	4.6	3.8	3.5	4.3	1.8	5.6	1.5	3.8	4.1									
	5		-	X	L	E	S		3	0		T									47.2	D 2000 5
3.4	3.4	1.3	4.5	4	3.6	3.4	3.4	10.9	4.1	3.5	1.3	3.7	3.4									
	6	-	7		-	X	L	E	S		3	6		T							47.1	D 2000 5
3.4	3.9	2.1	3.4	1.3	4.5	4	3.6	3.4	3.4	5	4.1	3.4	1.2	3.8	3.5							

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SHEET 13

2:00:07 PM
1/16/2020
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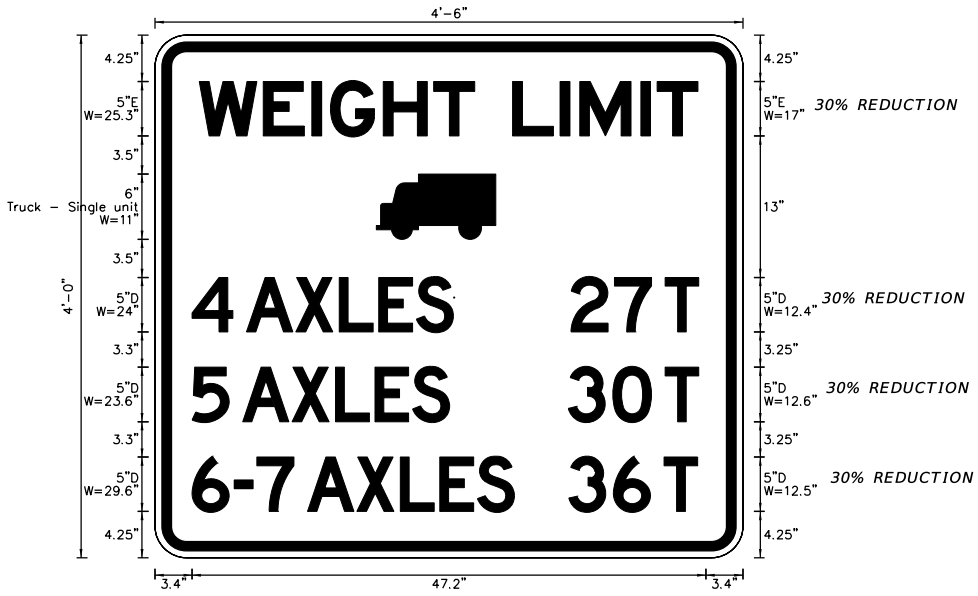
MONTANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

5" Letter Height



Panel Style: 0_Reg_R-12_5E 48+.ssi
M.U.T.C.D.: 2009 Edition

REDUCTION

10%	20%	30%
☐	☐	☒

Panel Style: 0_Reg_R-12_5E 48+.ssi
Dimensions are in inches. tenths

SIGN NAME: R12-5_c

SHT ALUM ☐
ALUM INCR ☒

SIGN DETAIL
1:8

DESIGNED:	RDS	D-TE:	12/2020
CHECKED:	JHC	D-TE:	12/2020

SIGN NUMBER	R12-5_c
WIDTH x HGHT.	4'-6" x 4'-0"
MARGIN	0.63"
BORDER WIDTH	0.88"
CORNER R-DIUS	2.25"
SQ. FEET	18.0 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND	High Intensity XI
COLOR:	White
TYPE: LEGEND/BORDER	Reflective
COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	20.3	29.3	11	6

LETTER POSITIONS (X)

																					LENGTH	SERIES SIZE
	W	E	I	G	H	T		L	I	M	I	T									45.8	E 2000 5
4.1	5.9	4.5	1.7	4.9	4.6	3.8	3.5	4.3	1.8	5.6	1.5	3.8	4.1									
	4		-	X	L	E	S		2	7		T									47.2	D 2000 5
3.4	3.8	1.3	4.5	4	3.6	3.4	3.4	10.8	4	3.4	1.2	3.8	3.4									
	5		-	X	L	E	S		3	0		T									47.2	D 2000 5
3.4	3.4	1.3	4.5	4	3.6	3.4	3.4	10.9	4.1	3.5	1.3	3.7	3.4									
	6	-	7		-	X	L	E	S		3	6		T							47.1	D 2000 5
3.4	3.9	2.1	3.4	1.3	4.5	4	3.6	3.4	3.4	5	4.1	3.4	1.3	3.7	3.5							

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SHEET 14

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1/16/2020
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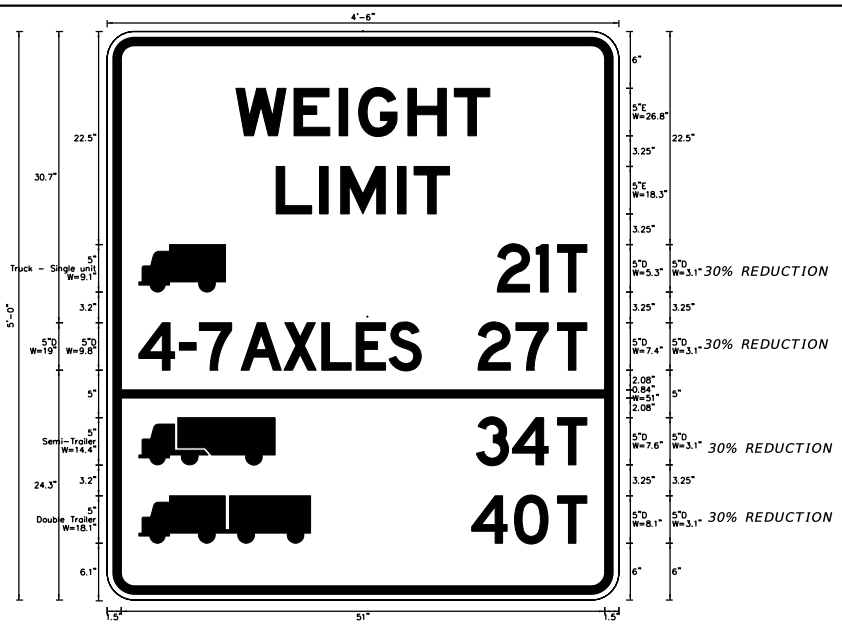
MONTANA MDT DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

5" Letter Height



REDUCTION

10%	20%	30%
☐	☐	X

Panel Style: 0_Reg_R-12_5E 48+.ssi
Dimensions are in inches. tenths

SIGN NAME: *R12-5_d*

SHT ALUM ☐
ALUM INCR X

SIGN DETAIL
1:8

DESIGNED:	*RDS*	DATE:	*12/2020*
CHECKED:	*JHC*	DATE:	*12/2020*

SIGN NUMBER	R12-5_d
WIDTH x HGHT.	4'-6" x 5'-0"
MARGIN	0.63"
BORDER WIDTH	0.88"
CORNER R-DIUS	2.25"
SQ. FEET	22.5 Sq.Ft.
MOUNTING	Ground
B-CKGROUND TYPE:	High Intensity *XI*
B-CKGROUND COLOR:	White
LEGEND/BORDER TYPE:	Reflective
LEGEND/BORDER COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	3.4	32.5	9.1	5
Semi-Trailer	0	3.4	14.2	14.4	5
Double Trailer	0	3.4	6	18.1	5

LETTER POSITIONS (X)																					LENGTH	SERIES SIZE
	W	E	I	G	H	T															26.8	E 2000 5
13.6	6.2	4.7	2	5.2	4.9	3.8	13.6															
	L	I	M	I	T																18.3	E 2000 5
17.8	4.6	2.2	6	1.7	3.8	17.9																
	2	1		T																	9.4	D 2000 5
41.2	4.1	1.2	1	3.1	3.4																	
	4	–	7		-	X	L	E	S		2	7		T							47.3	D 2000 5
3.4	4.3	2.1	3.4	1	4.5	4	3.6	3.4	3.4	6	4	3.4	1	3.1	3.4							
	3	4		T																	11.7	D 2000 5
39	3.8	3.7	1	3.1	3.4																	
	4	0		T																	12.2	D 2000 5
38.5	4.5	3.5	1	3.1	3.4																	

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SHEET 15

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1/16/2020
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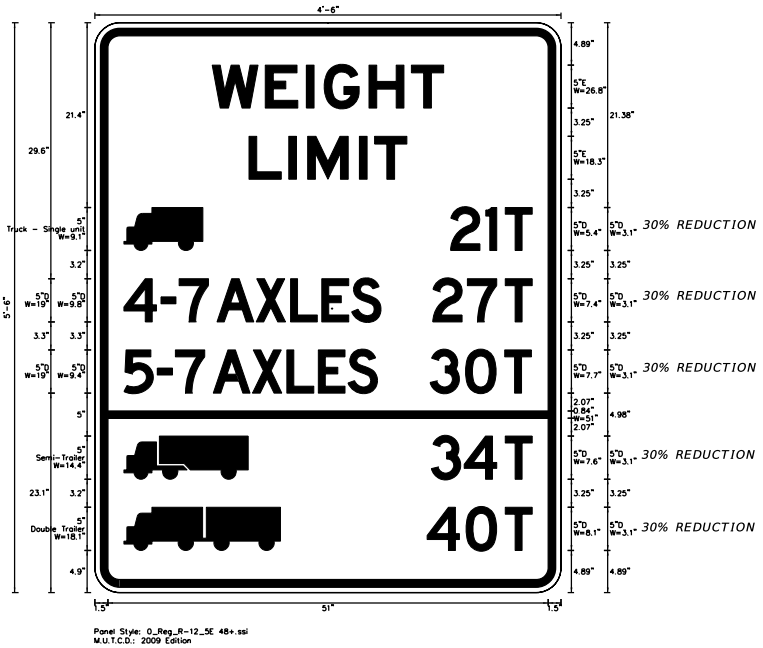
MONTANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

5" Letter Height



REDUCTION

10%	20%	30%
☐	☐	X

Panel Style: 0_Reg_R-12_5E 48+.ssi
Dimensions are in inches.tenths

SIGN NAME: R12-5_e

SHT ALUM ☐
ALUM INCR X

SIGN DETAIL
1:8

DESIGNED:	RDS	D-TE:	12/2020
CHECKED:	JHC	D-TE:	12/2020

SIGN NUMBER	R12-5_e
WIDTH x HGHT.	4'-6" x 5'-6"
MARGIN	0.63"
BORDER WIDTH	0.88"
CORNER R-DIUS	2.25"
SQ. FEET	24.8 Sq.Ft.
MOUNTING	Ground
TYPE: B-CKGROUND	High Intensity XI
COLOR:	White
TYPE: LEGEND/BORDER	Reflective
COLOR:	Black/Black

Stations:

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	3.4	39.6	9.1	5
Semi-Trailer	0	3.4	13.1	14.4	5
Double Trailer	0	3.4	4.9	18.1	5

LETTER POSITIONS (X)																					LENGTH	SERIES SIZE
	W	E	I	G	H	T															26.8	E 2000 5
13.6	6.1	4.7	2	5.2	4.9	3.8	13.6															
	L	I	M	I	T																18.3	E 2000 5
17.8	4.6	2.2	6	1.7	3.8	17.9																
	2	1		T																	9.5	D 2000 5
41.2	4.1	1.3	1	3.1	3.4																	
	4	-	7		-	X	L	E	S		2	7		T							47.3	D 2000 5
3.4	4.3	2.1	3.4	1	4.5	4	3.6	3.4	3.4	6	4	3.4	1	3.1	3.4							
	5	-	7		-	X	L	E	S		3	0		T							47.2	D 2000 5
3.4	3.9	2.1	3.4	1	4.5	4	3.6	3.4	3.4	6.1	4.1	3.6	1	3.1	3.4							
	3	4		T																	11.7	D 2000 5
39	3.8	3.8	1	3.1	3.4																	
	4	0		T																	12.2	D 2000 5
38.5	4.5	3.6	1	3.1	3.4																	

C:\dgn\SHV_WeightLmtSISDC001.DGN

SHEET 18

2:00:16 PM
1/16/2020
u4044

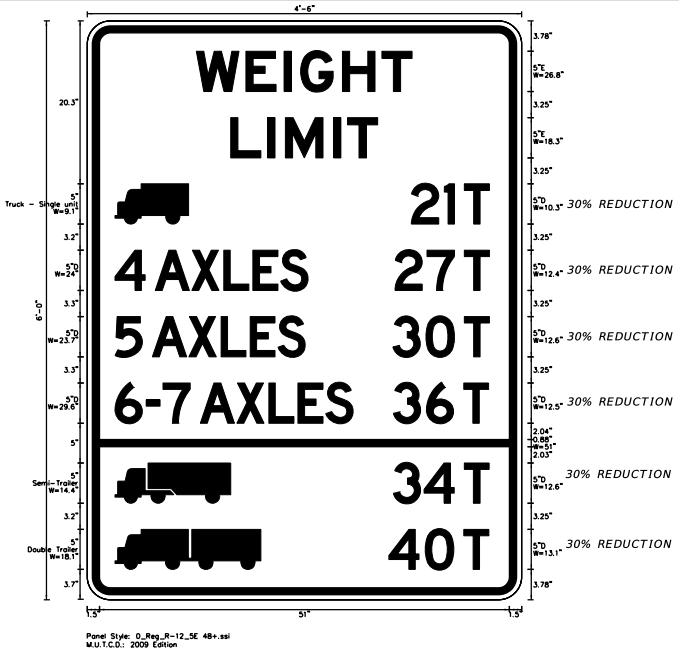
MONTANA MDT DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

5" Letter Height



Stations:

REDUCTION

10% ☐ 20% ☐ 30% ☒

Panel Style: 0_Reg_R-12_5E 48+.ssi
Dimensions are in inches. tenths

SIGN NAME: R12-5_f

SIGN DETAIL 1:8

SIGN NUMBER	R12-5_f
WIDTH x HGHT.	4'-6" x 6'-0"
MARGIN	0.63"
BORDER WIDTH	0.88"
CORNER RADIUS	2.25"
SQ. FEET	27.0 Sq.Ft.
MOUNTING	Ground

SHT ALUM ☐ ALUM INCR ☒

BACKGROUND
TYPE: High Intensity XI
COLOR: White

LEGEND/BORDER
TYPE: Reflective
COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
Truck - Single unit	0	3.4	46.7	9.1	5
Semi-Trailer	0	3.4	12	14.4	5
Double Trailer	0	3.4	3.8	18.1	5

LETTER POSITIONS (X)

																				LENGTH	SERIES SIZE
	W	E	I	G	H	T														26.8	E 2000 5
13.6	6.1	4.7	2.1	5.2	4.9	3.8	13.6														
	L	I	M	I	T															18.3	E 2000 5
17.8	4.6	2.2	6	1.7	3.8	17.9															
	2	1		T																10.3	D 2000 5
40.3	4.1	1.2	1.3	3.8	3.4																
	4		-	X	L	E	S		2	7		T								47.2	D 2000 5
3.4	3.8	1.3	4.5	4	3.6	3.4	3.4	10.8	4	3.4	1.3	3.7	3.4								
	5		-	X	L	E	S		3	0		T								47.2	D 2000 5
3.4	3.4	1.2	4.5	4	3.6	3.4	3.4	10.9	4.1	3.5	1.3	3.7	3.4								
	6	-	7		-	X	L	E	S		3	6		T						47.1	D 2000 5
3.4	3.9	2.1	3.4	1.3	4.5	4	3.6	3.4	3.4	5	4.1	3.4	1.3	3.8	3.4						
	3	4		T																12.6	D 2000 5
38.1	3.8	3.7	1.3	3.8	3.4																
	4	0		T																13.1	D 2000 5
37.5	4.5	3.6	1.2	3.8	3.4																

	LEFT MARGIN	RIGHT MARGIN
LINE 1		
LINE 2		
LINE 3		
LINE 4		
LINE 5		
LINE 6		
LINE 7		
LINE 8		
LINE 9		
LINE 10		
LINE 11		
LINE 12		
LINE 13		

DESIGNED:	RDS
DATE:	12/2020
CHECKED:	JHC
DATE:	12/2020

C:\dgn\SHV_WeightLmtSISDC001.DGN

SHEET 24

2:00:17 PM
1/16/2020
u4044

MONTANA
DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE

C:\dgn\SHV_WeightLmtSISDC001.DGN

SHEET 25

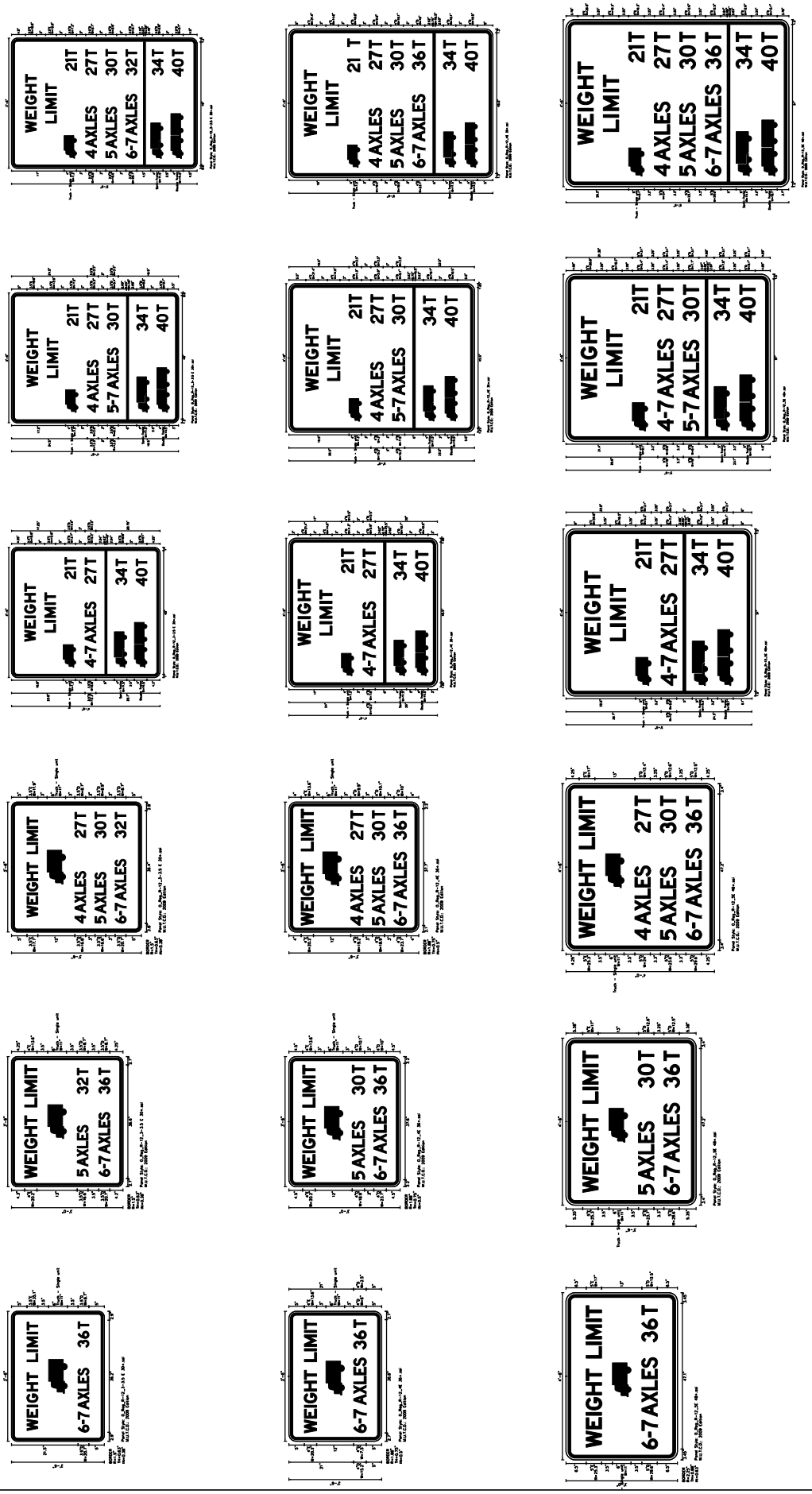
2:00:19 PM
1/16/2020
u4044

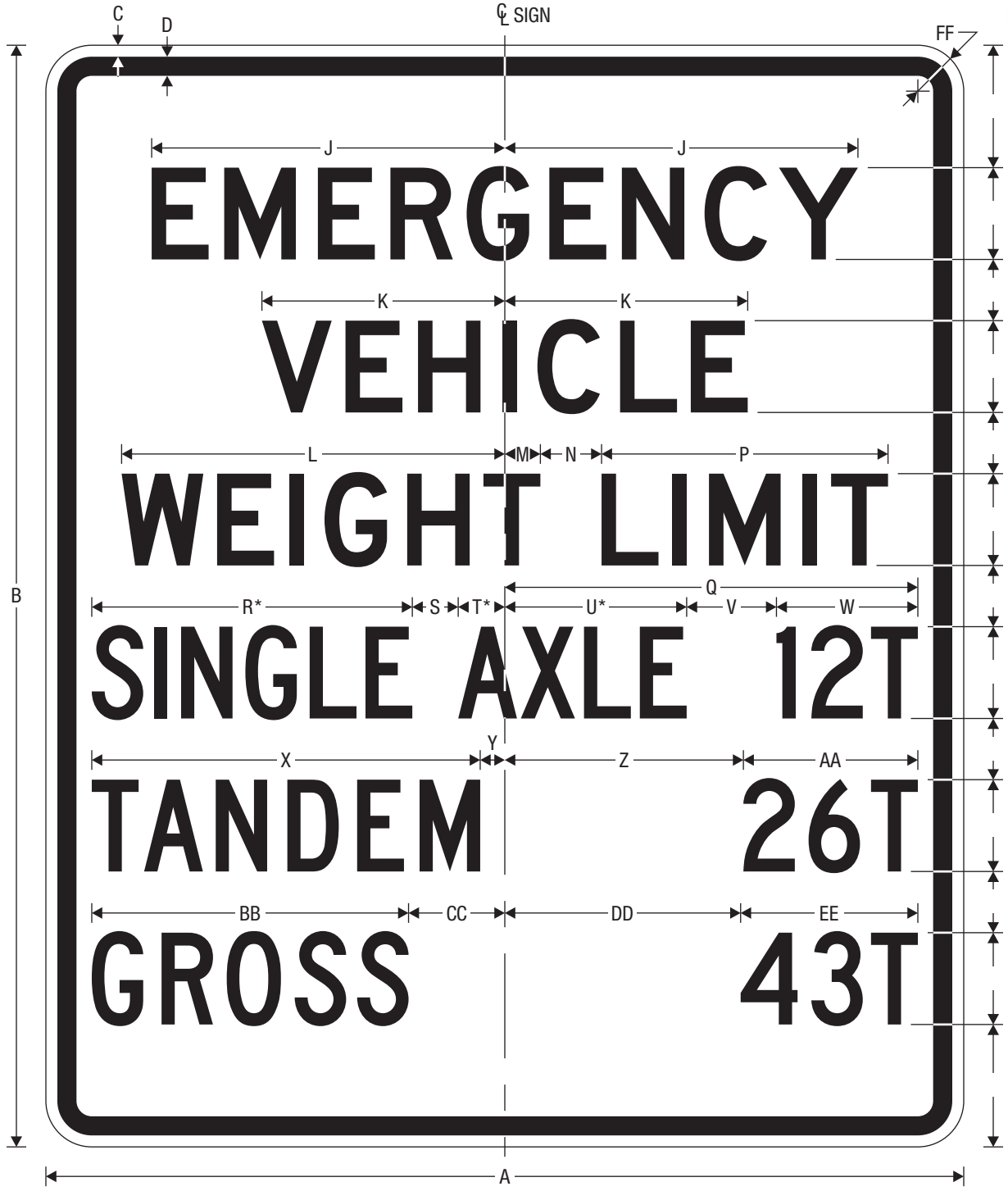
MONTANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. SHV Montana Signing

PROJ. TITLE





R12-7

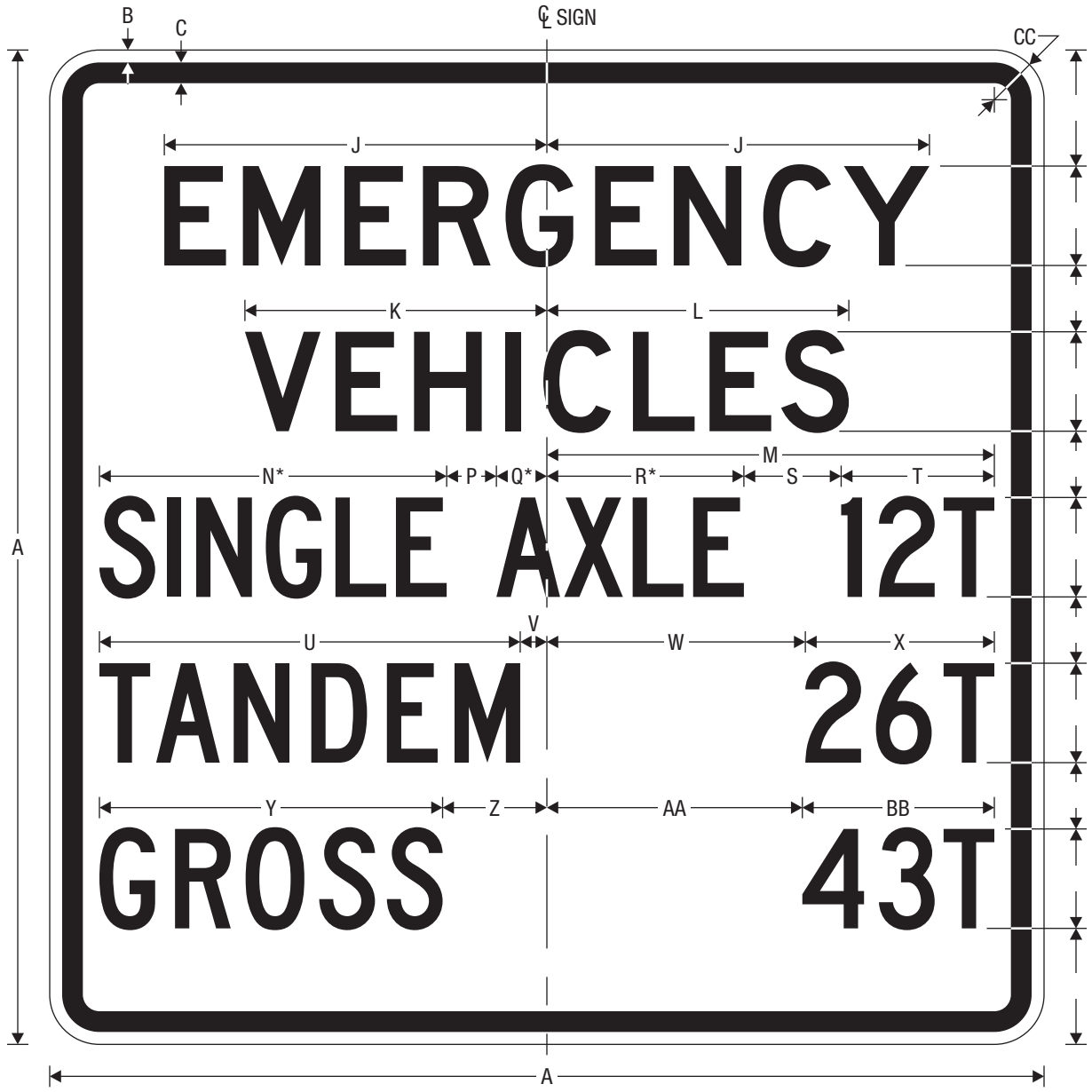
EMERGENCY VECHICLE WEIGHT LIMIT

* Reduce character spacing 30%.

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
30	36	0.375	0.625	4	3 D	2	3 C	11.542	7.939	12.525	1.163	2	9.363	13.5
48	60	0.75	1.25	6.875	5 D	3.75	4.5 C	19.237	13.232	20.833	1.979	3.25	15.605	20.833

R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF
10.477	1.5	1.523	5.944	VAR	VAR	12.695	0.805	VAR	VAR	10.354	3.146	VAR	VAR	1.5
15.715	2.5	2.618	8.583	VAR	VAR	19.043	1.790	VAR	VAR	15.531	5.302	VAR	VAR	3

COLORS: LEGEND, BORDER — BLACK
BACKGROUND — WHITE (RETROREFLECTIVE)



R12-7aP

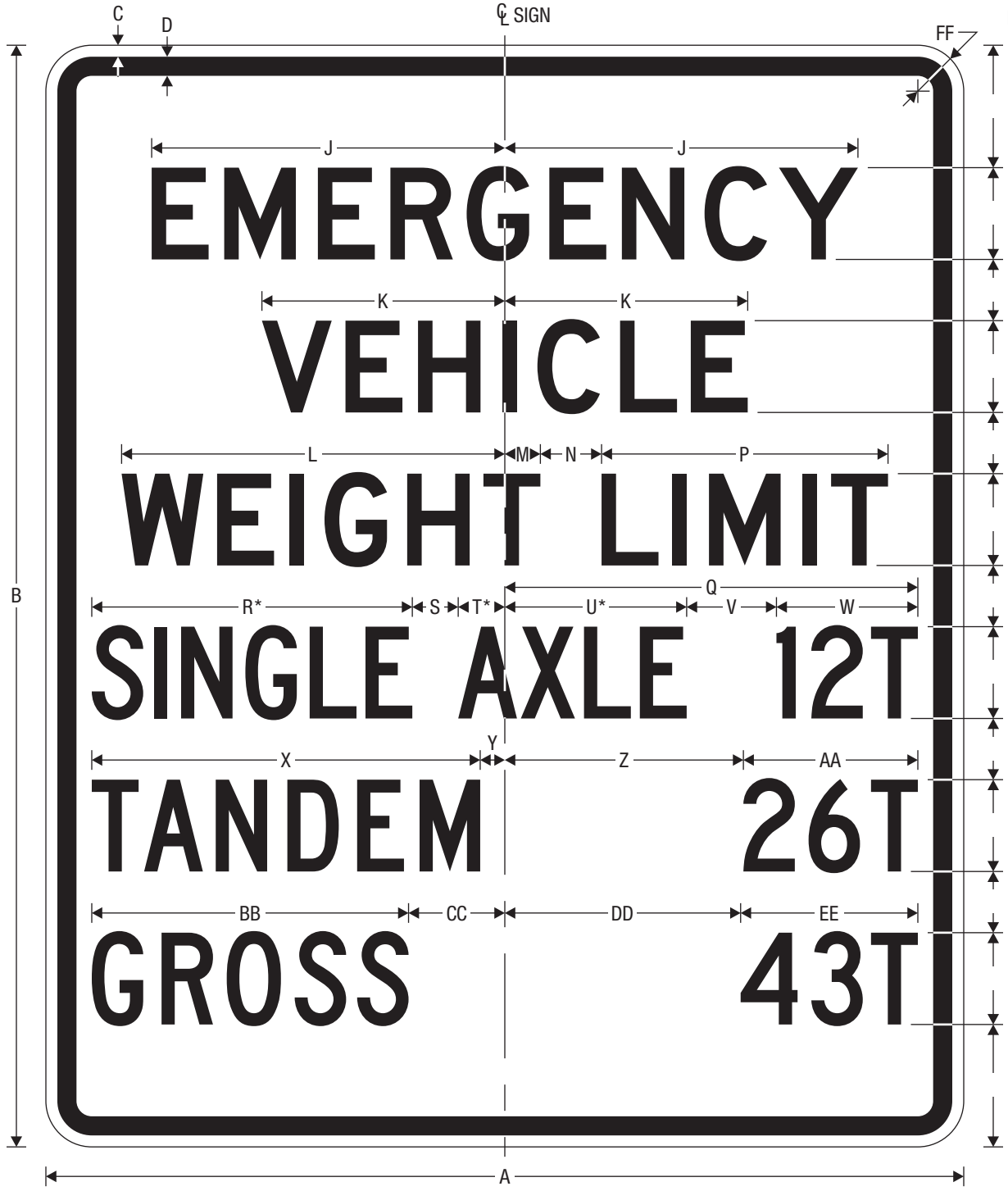
EMERGENCY VEHICLE WEIGHT LIMIT (PLAQUE)

* Reduce character spacing 30%.

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
30	0.375	0.625	3.5	3 D	2	3 C	3.5	11.542	9.111	9.110	13.5	10.477	1.5	1.523
48	0.75	1.25	5.25	5 D	3.75	4.5 C	5	19.237	15.184	15.184	20.833	15.715	2.5	2.618

R	S	T	U	V	W	X	Y	Z	AA	BB	CC
5.944	VAR	VAR	12.695	0.805	VAR	VAR	10.354	3.146	VAR	VAR	1.5
8.583	VAR	VAR	19.043	1.790	VAR	VAR	15.531	5.302	VAR	VAR	3

COLORS: LEGEND, BORDER — BLACK
BACKGROUND — WHITE (RETROREFLECTIVE)



R12-7

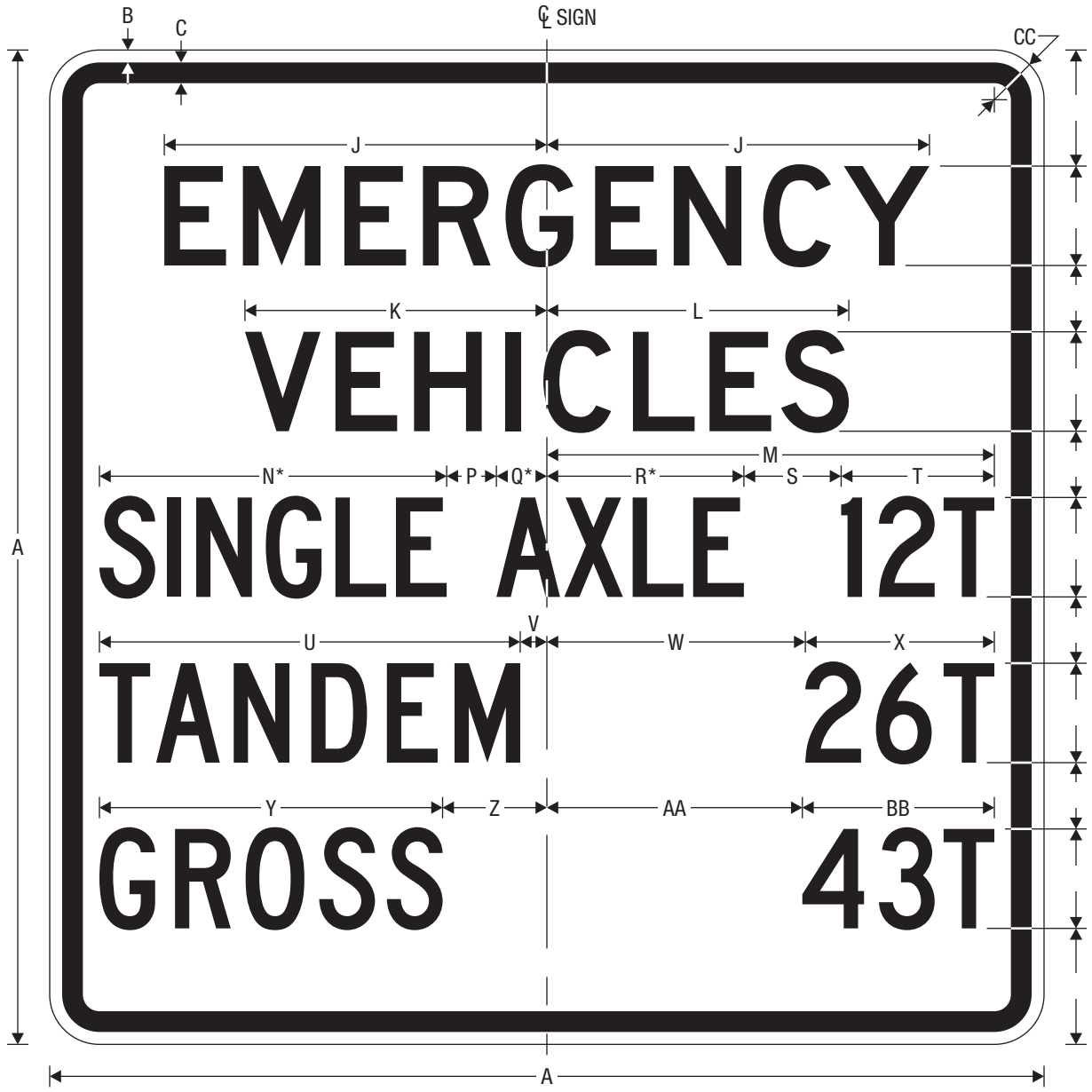
EMERGENCY VECHICLE WEIGHT LIMIT

* Reduce character spacing 30%.

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
30	36	0.375	0.625	4	3 D	2	3 C	11.542	7.939	12.525	1.163	2	9.363	13.5
48	60	0.75	1.25	6.875	5 D	3.75	4.5 C	19.237	13.232	20.833	1.979	3.25	15.605	20.833

R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF
10.477	1.5	1.523	5.944	VAR	VAR	12.695	0.805	VAR	VAR	10.354	3.146	VAR	VAR	1.5
15.715	2.5	2.618	8.583	VAR	VAR	19.043	1.790	VAR	VAR	15.531	5.302	VAR	VAR	3

COLORS: LEGEND, BORDER — BLACK
BACKGROUND — WHITE (RETROREFLECTIVE)



R12-7aP

EMERGENCY VEHICLE WEIGHT LIMIT (PLAQUE)

* Reduce character spacing 30%.

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
30	0.375	0.625	3.5	3 D	2	3 C	3.5	11.542	9.111	9.110	13.5	10.477	1.5	1.523
48	0.75	1.25	5.25	5 D	3.75	4.5 C	5	19.237	15.184	15.184	20.833	15.715	2.5	2.618

R	S	T	U	V	W	X	Y	Z	AA	BB	CC
5.944	VAR	VAR	12.695	0.805	VAR	VAR	10.354	3.146	VAR	VAR	1.5
8.583	VAR	VAR	19.043	1.790	VAR	VAR	15.531	5.302	VAR	VAR	3

COLORS: LEGEND, BORDER — BLACK
BACKGROUND — WHITE (RETROREFLECTIVE)