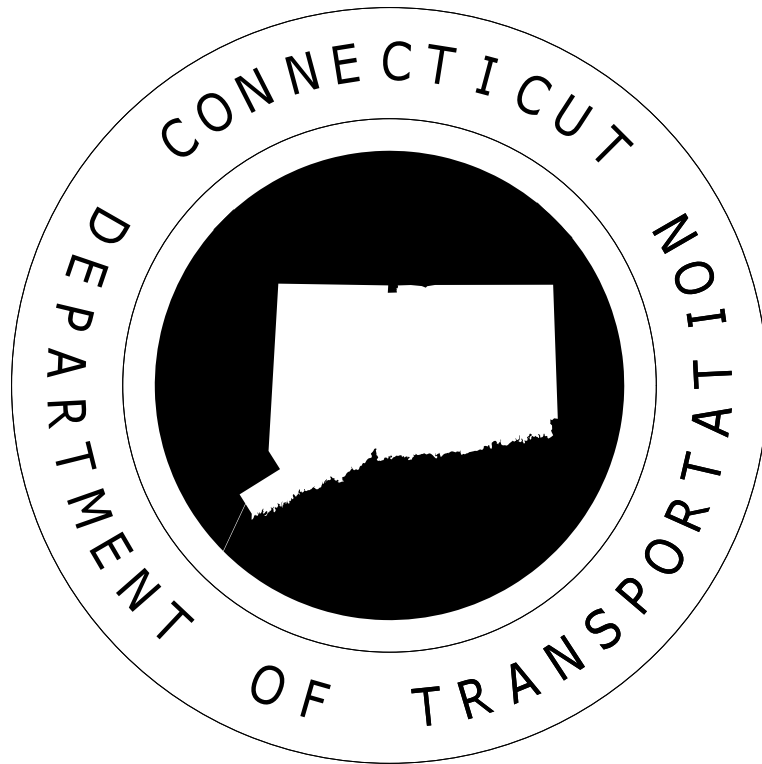


BRIDGE LOAD RATING MANUAL

RATING AIDS



SUBSETS INDEX	
SUBSET ID	SUBSET TITLE
LL	LIVE LOAD
DL	COMMON DEAD LOADS

CTDOT
BLRM

RATING AIDS

RATING AIDS
INDEX

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

G-1

LIVE LOAD PLATE INDEX		
Plate ID	PLATE TITLE	DESC.
LL-D.1a	HL-93 TRUCK	DESIGN
LL-D.1b	HL-93 TANDEM	
LL-D.1c	HL-93 PAIR	
LL-D.1d	FATIGUE TRUCK	
LL-AL.1	TYPE 3	AASHTO LEGAL
LL-AL.2	TYPE 3S2	
LL-AL.3	TYPE 3-3	
LL-AL.4	SU4	
LL-AL.5	SU5	
LL-AL.6	SU6	
LL-AL.7	SU7	
LL-CL.1	CT-L73.0	CT LEGAL
LL-CL.2a	CT-L3S2	
LL-CL.2b	CT-L3S2 + Lane	
LL-CL.2c	CT-L32S PAIR	
LL-CL.3	CT-HS20	
LL-CL.4	CT-H20	CT PERMIT
LL-P.L	PERMIT LANE LOAD	
LL-P.1	CT-P76.5	
LL-P.2	CT-P120(6)	
LL-P.3	CT-P140(7)a	
LL-P.4	CT-P140(7)b	
LL-P.5	CT-P160(8)a	
LL-P.6	CT-P160(8)b	
LL-P.7	CT-P180(9)	
LL-P.8	CT-P200(10)	
LL-P.9	CT-P380	
LL-P.10	CT-P204	
LL-P.11	CT-TLC	
LL-E.1	TYPE EV2	EMER- GENCY VEHICLE
LL-E.2	TYPE EV3	

CTDOT
BLRM

RATING AIDS

LIVE LOAD
INDEX

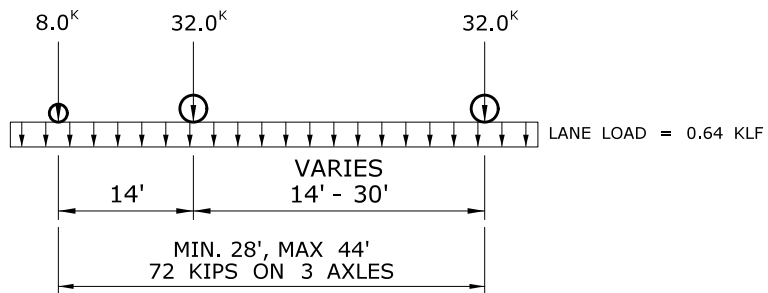
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

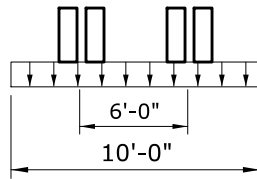
Plate ID:

LL-G

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	DESIGN
GVW	N/A

CTDOT
BLRM

RATING AIDS

DESIGN LOAD
HL-93 TRUCK

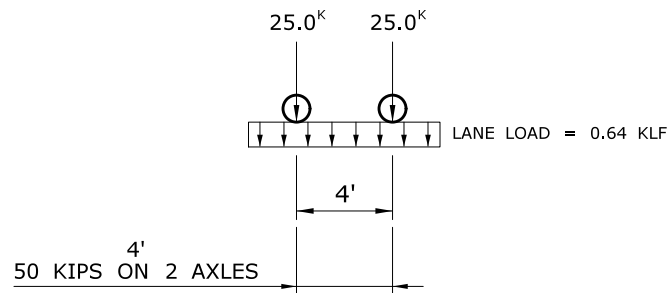
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

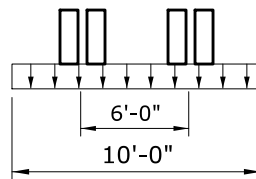
Plate ID:

LL-D.1a

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	DESIGN
GVW	N/A

CTDOT
BLRM

RATING AIDS

DESIGN LOAD
HL-93 TANDEM

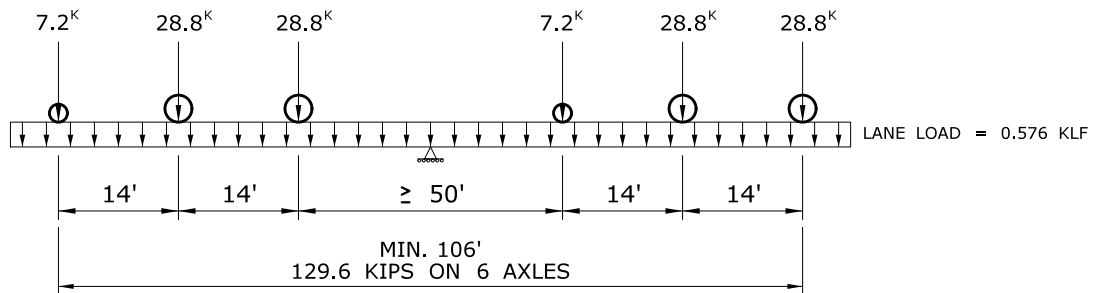
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

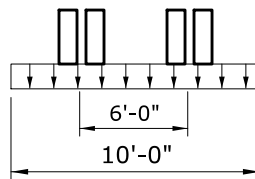
Plate ID:

LL-D.1b

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	DESIGN
GVW	N/A

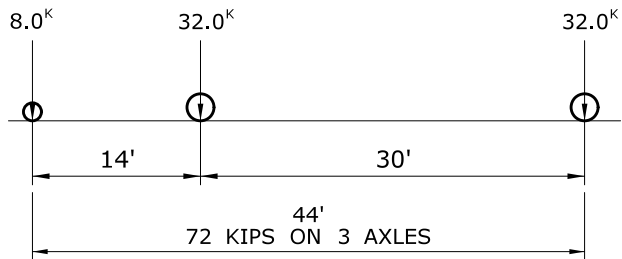
NOTE: AXLE WEIGHTS AND LANE LOAD SHOWN INCLUDE THE 90% REDUCTION

CTDOT
BLRM
RATING AIDS

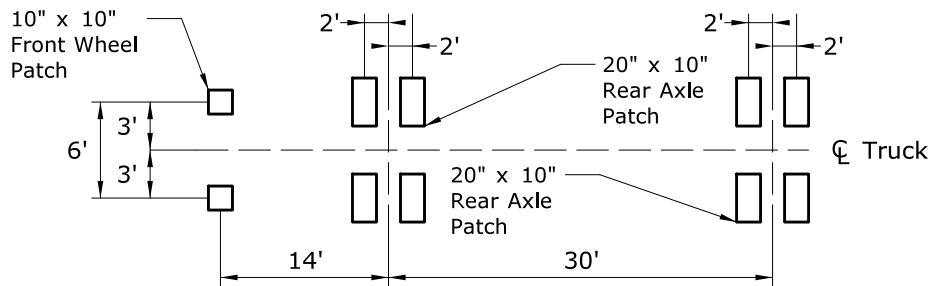
DESIGN LOAD
90% HL-93 TRUCK PAIR

Rating Aid Version:
2018.1.0
Release Date:
3/29/2018
Plate ID:
LL-D.1c

AXLE LOADS AND SPACING



TRUCK FOOTPRINT



VEHICLE CLASSIFICATION	
RATING LEVEL	DESIGN
GVW	N/A

CTDOT
BLRM

RATING AIDS

**DESIGN LOAD
FATIGUE TRUCK**

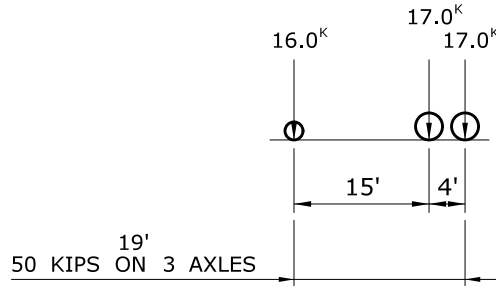
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

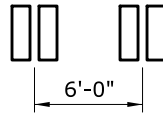
Plate ID:

LL-D.1d

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	ROUTINE COMMERCIAL
VEHICLE TYPE	SINGLE UNIT
GVW	25 TON

CTDOT
BLRM

RATING AIDS

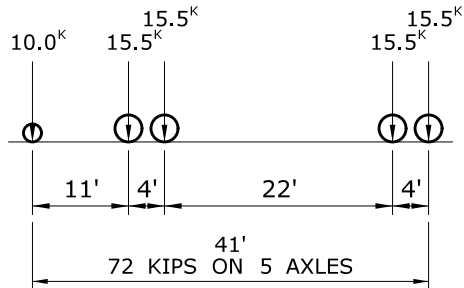
AASHTO LEGAL LOAD
TYPE 3

Rating Aid Version:
2018.1.0

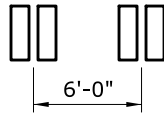
Release Date:
3/29/2018

Plate ID:
LL-AL.1

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	ROUTINE COMMERCIAL
VEHICLE TYPE	SEMI-TRAILER
	3S2
GVW	36 TON

CTDOT
BLRM

RATING AIDS

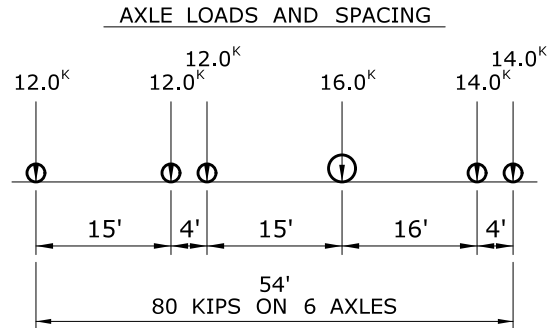
AASHTO LEGAL LOAD
TYPE 3S2

Rating Aid Version:
2018.1.0

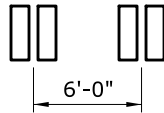
Release Date:
3/29/2018

Plate ID:

LL-AL.2



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	ROUTINE COMMERCIAL
VEHICLE TYPE	SEMI-TRAILER
GVW	40 TON

CTDOT
BLRM

RATING AIDS

AASHTO LEGAL LOAD
TYPE 3-3

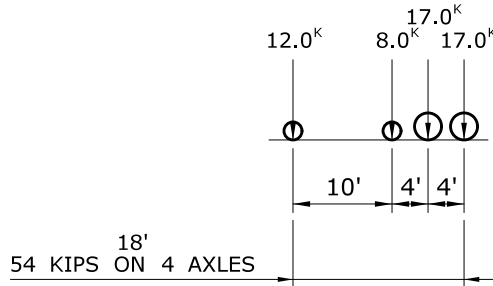
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

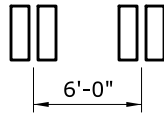
Plate ID:

LL-AL.3

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	SPECIAL HAULING VEHICLE
VEHICLE TYPE	SINGLE UNIT
GVW	27 TON

CTDOT
BLRM

RATING AIDS

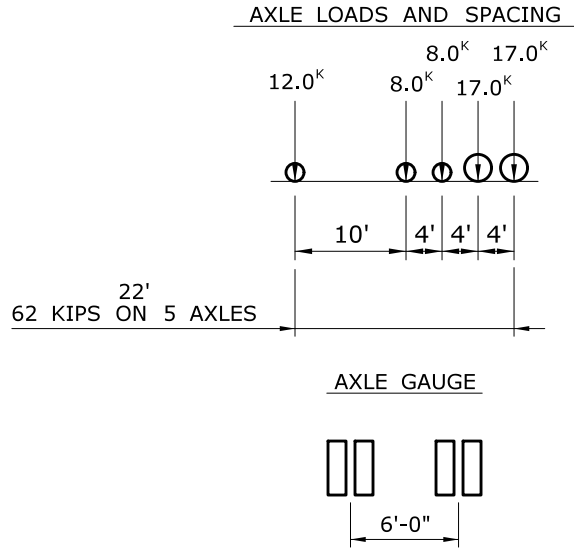
AASHTO LEGAL LOAD
SU4

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

LL-AL.4



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	SPECIAL HAULING VEHICLE
VEHICLE TYPE	SINGLE UNIT
GVW	31 TON

CTDOT
BLRM

RATING AIDS

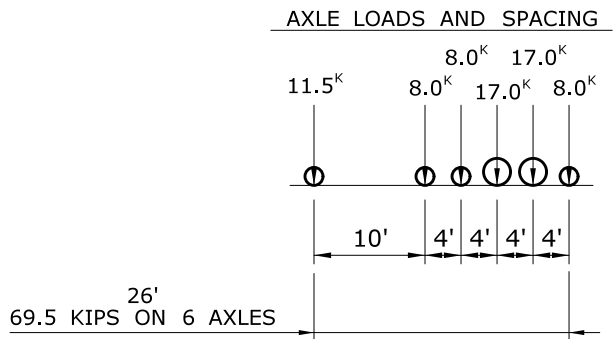
AASHTO LEGAL LOAD
SU5

Rating Aid Version:
2018.1.0

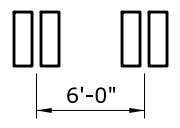
Release Date:
3/29/2018

Plate ID:

LL-AL.5



AXLE GAUGE

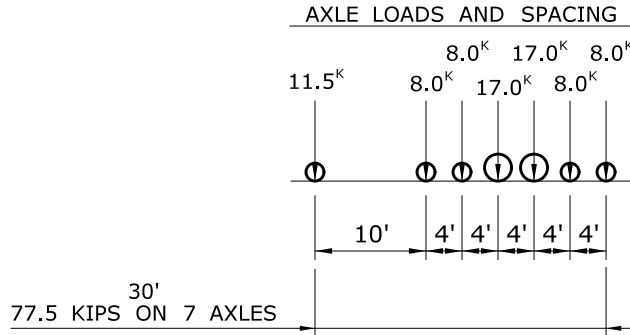


VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	SPECIAL HAULING VEHICLE
VEHICLE TYPE	SINGLE UNIT
GVW	34.75 TON

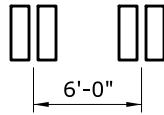
CTDOT
BLRM
RATING AIDS

AASHTO LEGAL LOAD
SU6

Rating Aid Version:
2018.1.0
Release Date:
3/29/2018
Plate ID:
LL-AL.6



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	SPECIAL HAULING VEHICLE
VEHICLE TYPE	SINGLE UNIT
GVW	38.75 TON

CTDOT
BLRM

RATING AIDS

AASHTO LEGAL LOAD
SU7

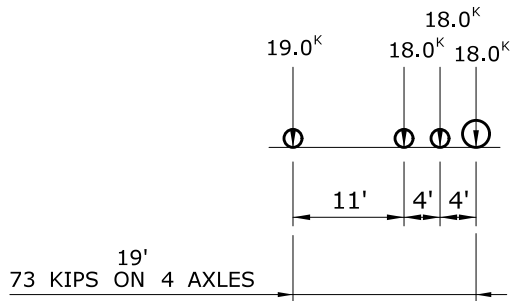
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

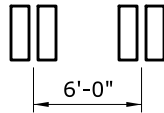
Plate ID:

LL-AL.7

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	SPECIAL HAULING VEHICLE
VEHICLE TYPE	SINGLE UNIT
	4-AXLE
GVW	36.5 TON

CTDOT
BLRM

RATING AIDS

CT LEGAL LOAD
CT-L73.0

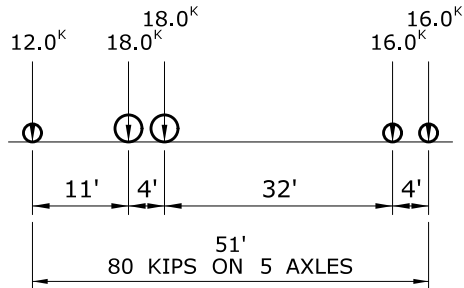
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

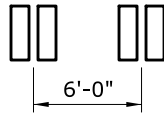
Plate ID:

LL-CL.1

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	ROUTINE COMMERCIAL
VEHICLE TYPE	SEMI-TRAILER
	3S2
GVW	40 TON

CTDOT
BLRM

RATING AIDS

CT LEGAL LOAD
CT-L3S2

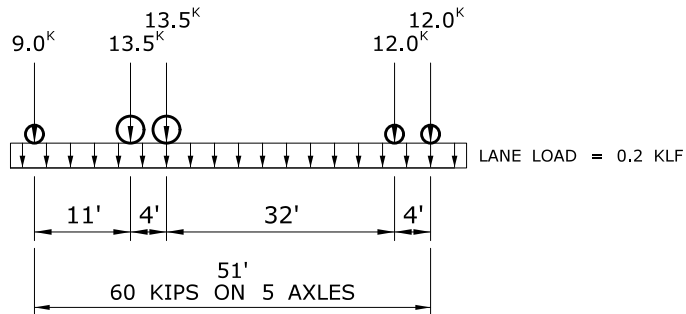
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

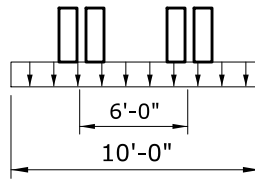
Plate ID:

LL-CL.2a

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	ROUTINE COMMERCIAL
VEHICLE TYPE	SEMI-TRAILER
	3S2
GVW	40 TON

NOTE: AXLE LOADS SHOWN INCLUDE THE 75% REDUCTION.

CTDOT
BLRM

RATING AIDS

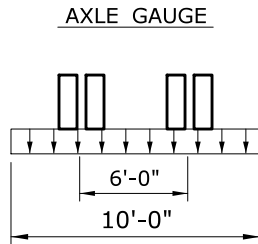
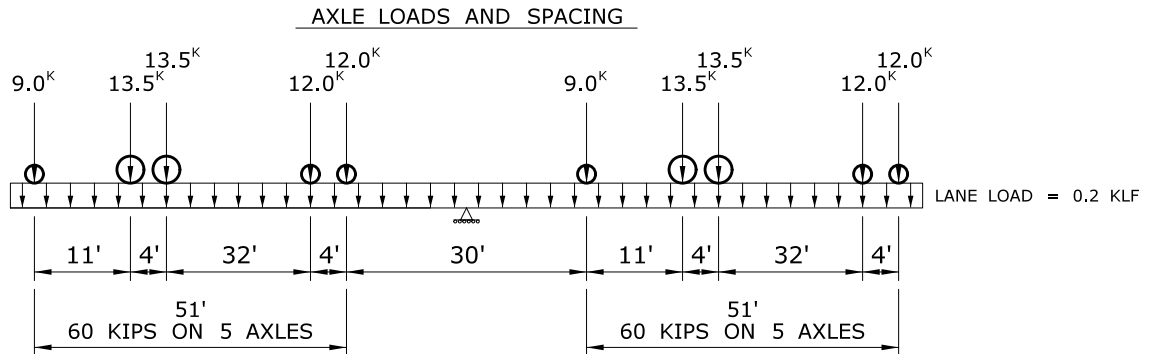
CT LEGAL LOAD
75% CT-L3S2 TRUCK

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

LL-CT.2b



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	ROUTINE COMMERCIAL
VEHICLE TYPE	SEMI-TRAILER
	3S2
GVW	40 TON

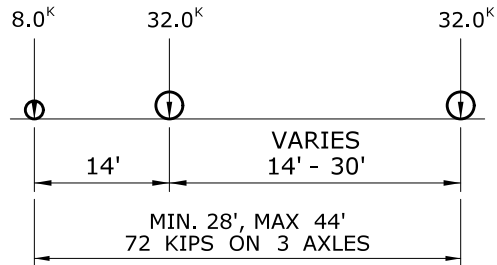
NOTE: AXLE LOADS SHOWN INCLUDE THE 75% REDUCTION.

CTDOT
BLRM
RATING AIDS

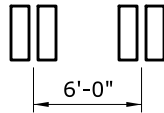
CT LEGAL LOAD
75% CT-L3S2 TRUCK PAIR

Rating Aid Version:
2018.1.0
Release Date:
3/29/2018
Plate ID:
LL-CL.2c

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	ROUTINE COMMERCIAL
VEHICLE TYPE	SEMI-TRAILER
GVW	36 TON

CTDOT
BLRM

RATING AIDS

CT LEGAL LOAD
CT-HS20

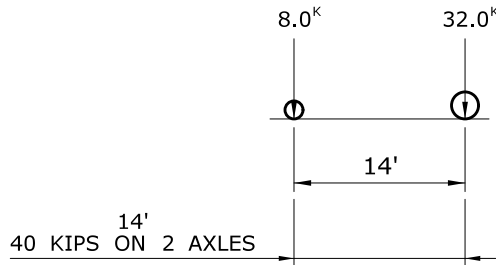
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

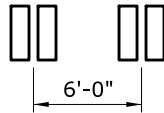
Plate ID:

LL-CL.3

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	ROUTINE COMMERCIAL
VEHICLE TYPE	SINGLE UNIT
GVW	20 TON

CTDOT
BLRM

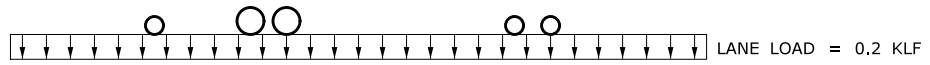
RATING AIDS

CT LEGAL LOAD
CT-H20

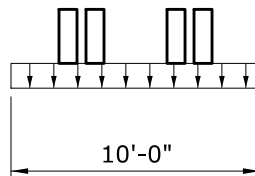
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:
LL-CL.4



WHEEL SPACING



NOTES:

1. THE LANE LOAD MAY BE INTERRUPTED BY CONSECUTIVE AXLES TO REDUCED LOAD EFFECTS.
2. THE LANE LOAD MAY BE EXCLUDED FROM ESCORTED PERMITS TO REDUCE LOAD EFFECTS.

CTDOT
BLRM

RATING AIDS

CT PERMIT LOAD
PERMIT LANE LOAD

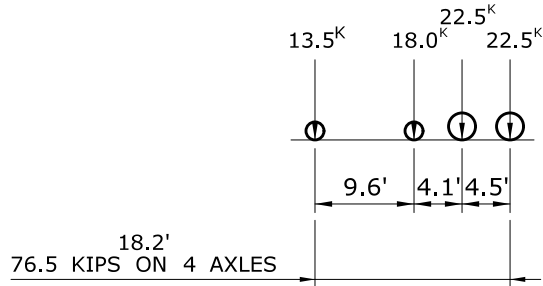
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

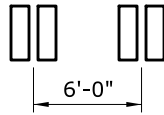
Plate ID:

LL-P.L

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	SPECIAL HAULING VEHICLE
PERMIT TYPE	ROUTINE
FREQUENCY	UNLIMITED CROSSINGS
LOADING	MIXED WITH TRAFFIC
GVW	38.25 TON

CTDOT
BLRM

RATING AIDS

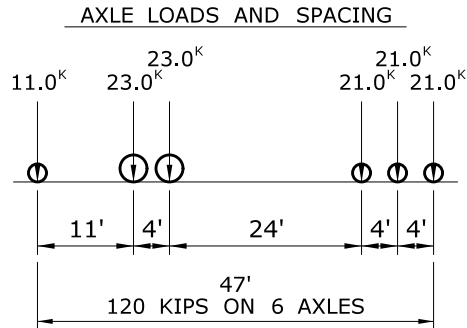
CT PERMIT LOAD
CT-P76.5

Rating Aid Version:
2018.1.0

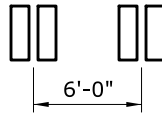
Release Date:
3/29/2018

Plate ID:

LL-P.1



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	COMMERCIAL
PERMIT TYPE	ROUTINE
FREQUENCY	UNLIMITED CROSSINGS
LOADING	MIXED WITH TRAFFIC
GVW	60 TON

CTDOT
BLRM

RATING AIDS

CT PERMIT LOAD
CT-P120(6)

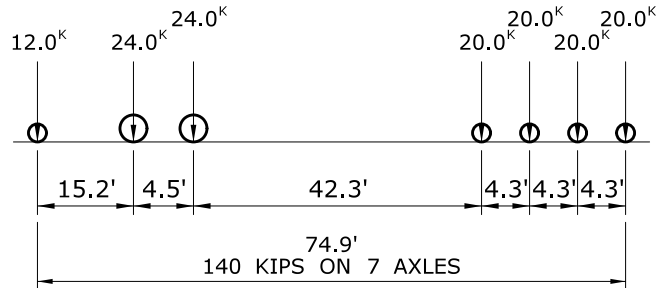
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

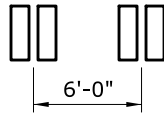
Plate ID:

LL-P.2

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	COMMERCIAL
PERMIT TYPE	ROUTINE
FREQUENCY	UNLIMITED CROSSINGS
LOADING	MIXED WITH TRAFFIC
GVW	70 TON

CTDOT
BLRM

RATING AIDS

CT PERMIT LOAD
CT-P140(7)a

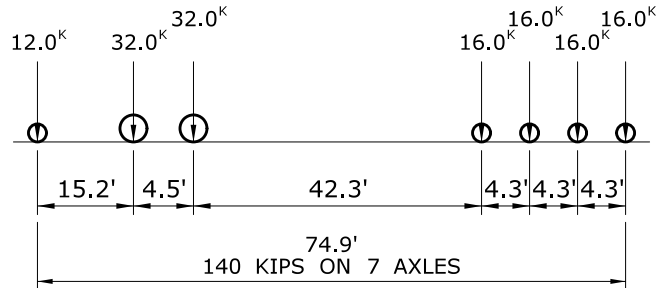
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

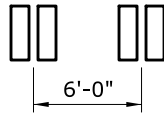
Plate ID:

LL-P.3

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	COMMERCIAL
PERMIT TYPE	ROUTINE
FREQUENCY	UNLIMITED CROSSINGS
LOADING	MIXED WITH TRAFFIC
GVW	70 TON

CTDOT
BLRM

RATING AIDS

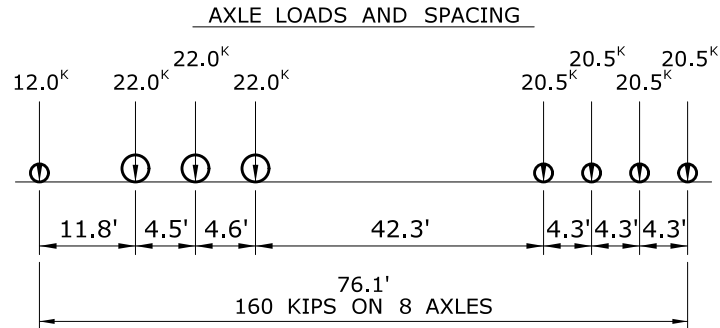
CT PERMIT LOAD
CT-P140(7)b

Rating Aid Version:
2018.1.0

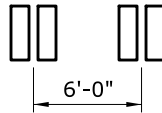
Release Date:
3/29/2018

Plate ID:

LL-P.4



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	COMMERCIAL
PERMIT TYPE	ROUTINE
FREQUENCY	UNLIMITED CROSSINGS
LOADING	MIXED WITH TRAFFIC
GVW	80 TON

CTDOT
BLRM

RATING AIDS

CT PERMIT LOAD
CT-P160(8)a

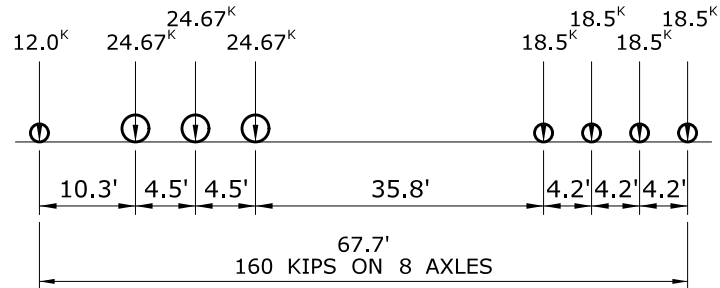
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

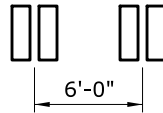
Plate ID:

LL-P.5

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	COMMERCIAL
PERMIT TYPE	ROUTINE
FREQUENCY	UNLIMITED CROSSINGS
LOADING	MIXED WITH TRAFFIC
GVW	80 TON

CTDOT
BLRM

RATING AIDS

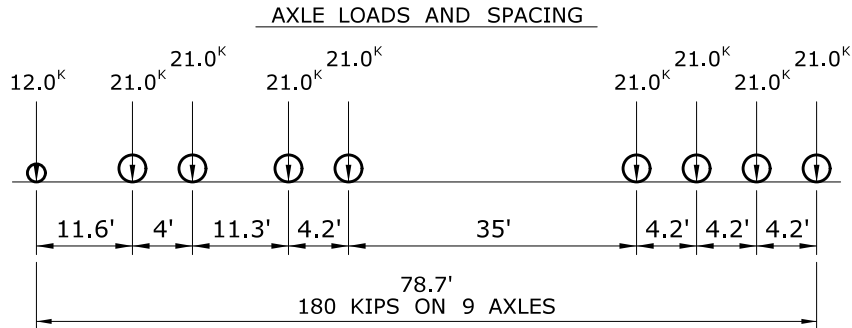
CT PERMIT LOAD
CT-P160(8)b

Rating Aid Version:
2018.1.0

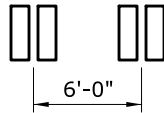
Release Date:
3/29/2018

Plate ID:

LL-P.6



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	COMMERCIAL
PERMIT TYPE	SPECIAL
FREQUENCY	SINGLE-TRIP
LOADING	MIXED WITH TRAFFIC
GVW	90 TON

CTDOT
BLRM

RATING AIDS

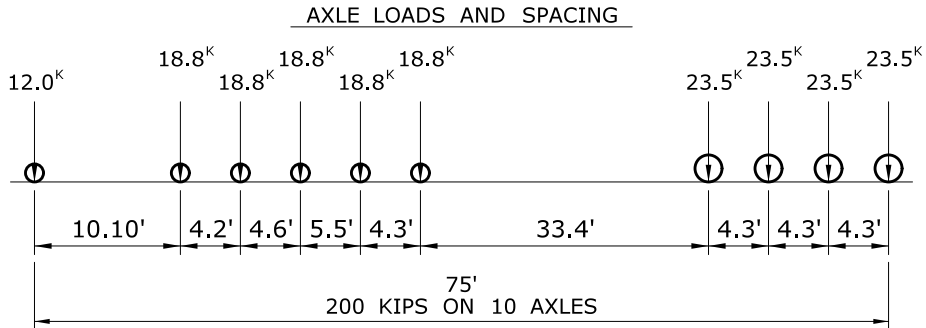
CT PERMIT LOAD
CT-P180(9)

Rating Aid Version:
2018.1.0

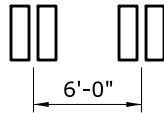
Release Date:
3/29/2018

Plate ID:

LL-P.7



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	COMMERCIAL
PERMIT TYPE	SPECIAL
FREQUENCY	SINGLE-TRIP
LOADING	MIXED WITH TRAFFIC
GVW	100 TON

CTDOT
BLRM

RATING AIDS

CT PERMIT LOAD
CT-P200(10)

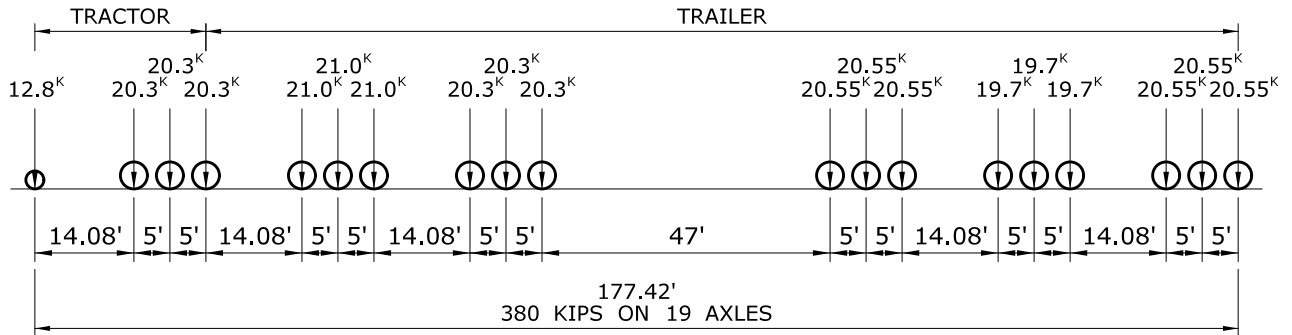
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

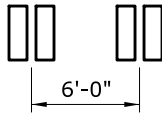
Plate ID:

LL-P.8

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	COMMERCIAL
PERMIT TYPE	SPECIAL
FREQUENCY	SINGLE-TRIP
LOADING	ESCORTED
GVW	190 TON

CTDOT
BLRM

RATING AIDS

CT PERMIT LOAD
CT-P380

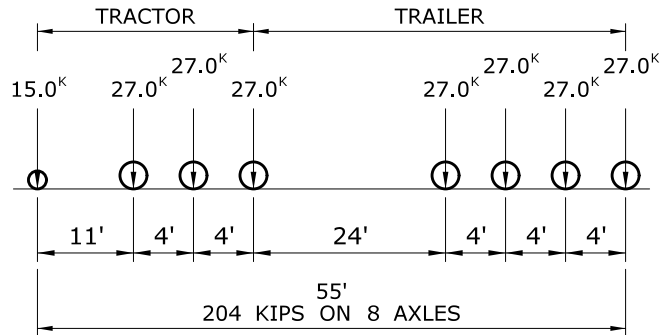
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

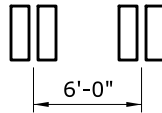
Plate ID:

LL-P.9

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	COMMERCIAL
PERMIT TYPE	ROUTINE
FREQUENCY	UNLIMITED CROSSINGS
LOADING	MIXED WITH TRAFFIC
GVW	102 TON

NOTE: THE CT-P204 IS A DESIGN PERMIT NOTATIONAL VEHICLE FOR COMMERCIAL PERMITS. THIS VEHICLE SHALL NOT BE USED TO SUBSTITUTE VEHICLES REQUIRED FOR RATING BY THE BLRM.

CTDOT
BLRM

RATING AIDS

CT PERMIT LOAD
CT-P204

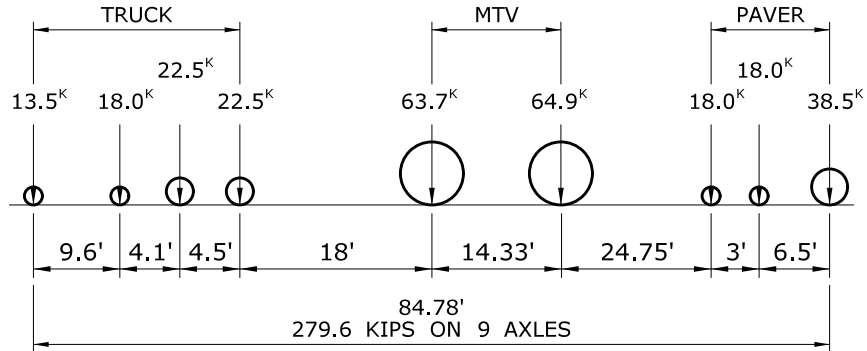
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

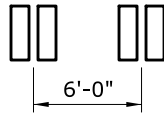
Plate ID:

LL-P.10

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	PERMIT
VEHICLE CLASS	CONSTRUCTION VEHICLE
VEHICLE TYPE	PAVING TRAIN
	TRI-LOAD COMBINATION
GVW	139.8 TON

CTDOT
BLRM

RATING AIDS

CT PERMIT LOAD
CT-TLC

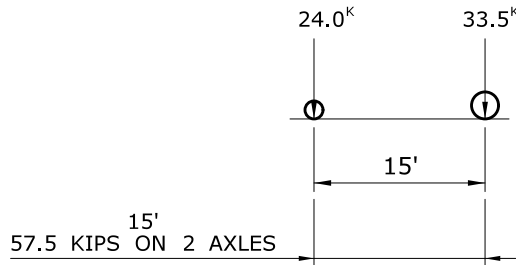
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

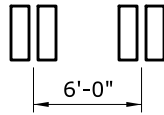
Plate ID:

LL-P.11

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	EMERGENCY
VEHICLE TYPE	SINGLE AXLE
GVW	28.75 TON

CTDOT
BLRM

RATING AIDS

EMERGENCY VEHICLE LOAD
TYPE EV2

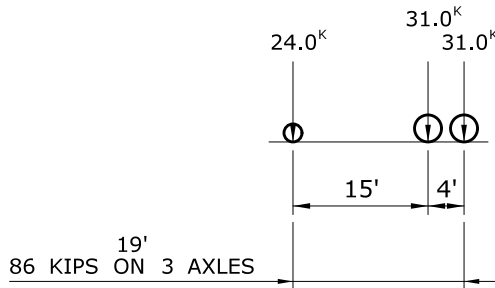
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

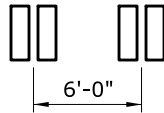
Plate ID:

LL-E.1

AXLE LOADS AND SPACING



AXLE GAUGE



VEHICLE CLASSIFICATION	
RATING LEVEL	LEGAL
VEHICLE CLASS	EMERGENCY
VEHICLE TYPE	TANDEM AXLE
GVW	43 TON

CTDOT
BLRM

RATING AIDS

EMERGENCY VEHICLE LOAD
TYPE EV3

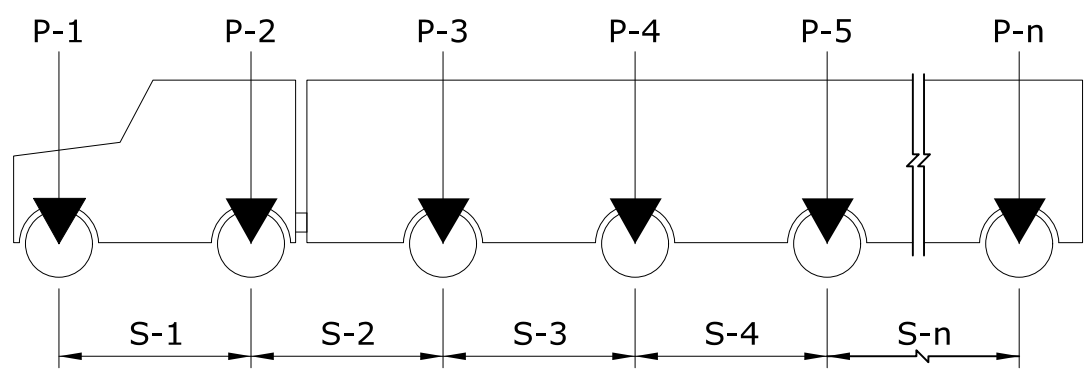
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

LL-E.2

Vehicle Name/ID _____
 Vehicle Owner/Agency _____
 Worksheet Prepared By _____
 Date Prepared _____



AXLE WEIGHT (x1000 Pounds)	
P-1	
P-2	
P-3	
P-4	
P-5	
P-6	
P-7	
P-8	
P-9	
P-10	

Axle Spacing (Feet)	
S-1	
S-2	
S-3	
S-4	
S-5	
S-6	
S-7	
S-8	
S-9	

INSTRUCTIONS

Enter the weight of each axle in terms of 1000 pounds, known as kilopound or kip, in the left table.

Enter the spacing between axle as shown in the above schematic in terms of feet, in the right table. Spacing may be entered using ft-in notation.

If the number of axles exceeds 10, add lines below the table.

CTDOT
BLRM
 RATING AIDS

**AXLE CONFIGURATION
 WORKSHEET**

Rating Aid Version:
 2018.1.0
 Release Date:
 3/29/2018
 Plate ID:
LL-WKST

COMMON DEAD LOAD PLATE INDEX		
PLATE ID	PLATE TITLE	DESC.
DL-R.1	DOUBLE PIPE	METAL BRIDGE RAIL
DL-R.2	SINGLE SEMI-ELLIPTICAL	
DL-R.3	DOUBLE SEMI-ELLIPTICAL	
DL-R.4	TRIPLE SEMI-ELLIPTICAL	
DL-R.5	OREGON TUBULAR	
DL-R.6	MASS. TUBULAR	
DL-R.7	IRON POST	
DL-B.1	42" STANDARD PARAPET	CONCRETE BARRIERS
DL-B.2	32" STANDARD PARAPET	
DL-B.3	RETROFITTED SAFETY WALK	
DL-B.4	SAFETY WALK	
DL-B.5	SPLIT MEDIAN 4'-9"	
DL-M.1	LIGHTING STANDARD	MISC.
DL-M.2	ROADSIDE BARRIER	

WEIGHT DATA CONTAINED HEREIN IS TO PROVIDE THE RATER DATA OF COMMON DEAD LOADS ON CTDOT'S OWNED BRIDGE STRUCTURES. IF THE RATER NEEDS CLARIFICATION FOR HOW THESE WEIGHTS WERE DETERMINED PLEASE CONTACT THE LOAD RATING SECTION. PLATES CONTAINED HEREIN SHALL NOT BE CONSTRUED TO MEAN THE SYSTEM MEETS ANY RELEVANT STANDARDS OR CODES AND ARE ONLY MEANT TO REPRESENT SYSTEMS ON IN-SERVICE BRIDGES. IF THE RATER ENCOUNTERS A COMMON SYSTEM NOT CONTAINED WITHIN THIS AID SECTION PLEASE CONTACT THE LOAD RATING SECTION.

CTDOT
BLRM
RATING AIDS

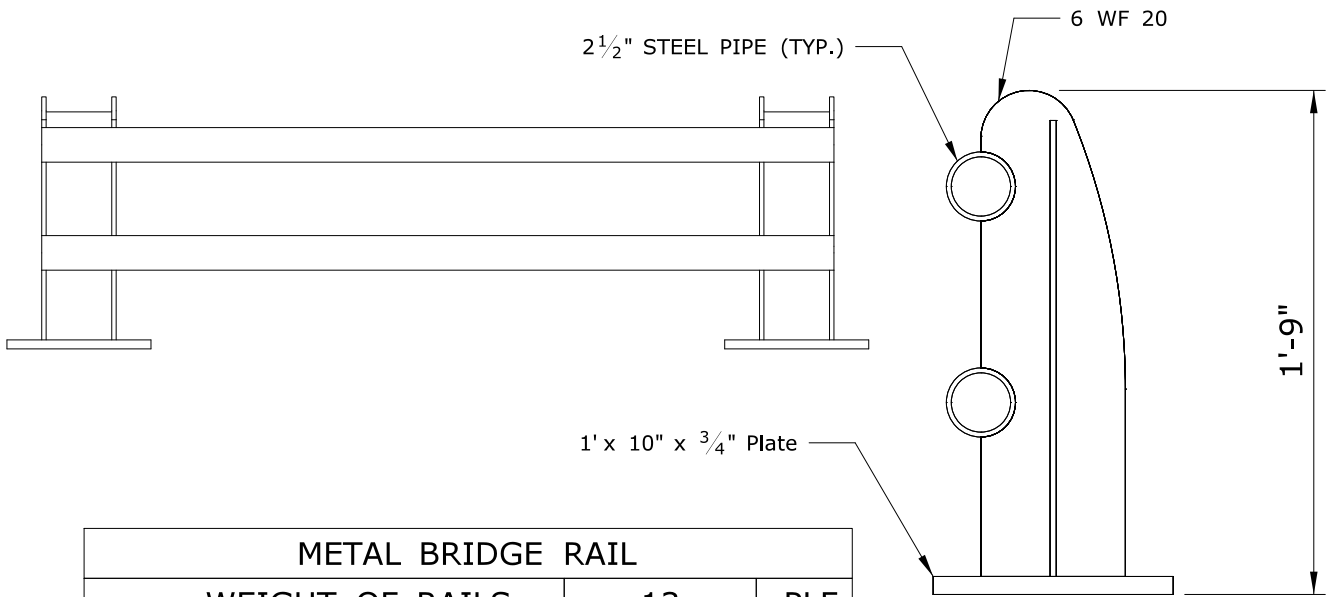
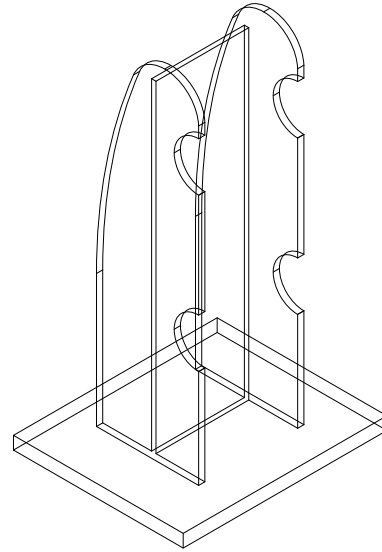
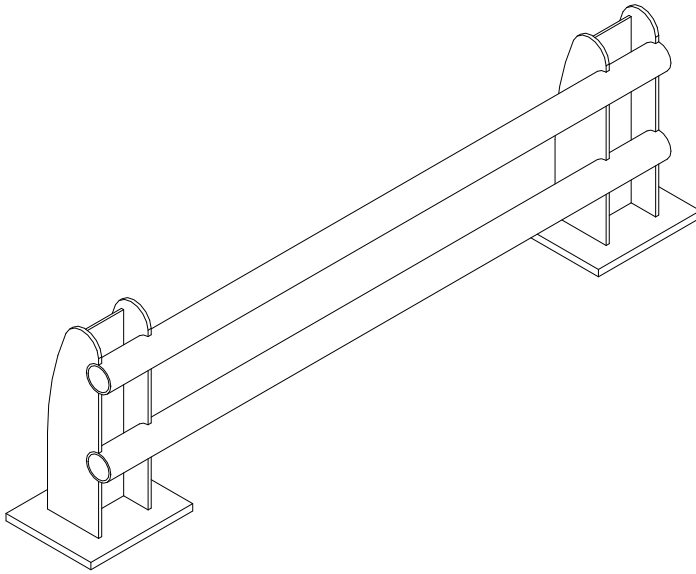
**COMMON DEAD LOADS
INDEX**

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

DL-G



METAL BRIDGE RAIL		
WEIGHT OF RAILS	13	PLF
WEIGHT OF POST	43	LB

1. WEIGHT DATA WAS DETERMINED WITH A UNIT WEIGHT OF 490 PCF FOR STEEL WITH A 10% INCREASE TO ACCOUNT FOR CONNECTIONS.

2. THE WEIGHT OF POSTS ITEM INCLUDES THE WEIGHT OF THE 6 WF 20 CUT TO FIT THE SHAPE SHOWN, PLUS THE WEIGHT OF THE BASE PLATE.

CTDOT
BLRM

RATING AIDS

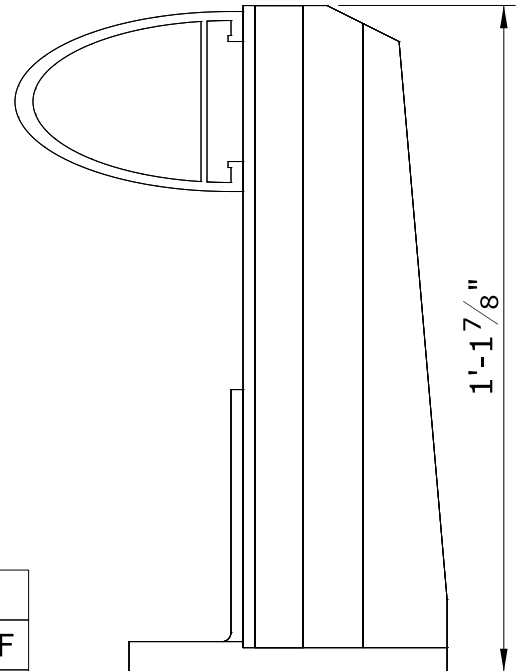
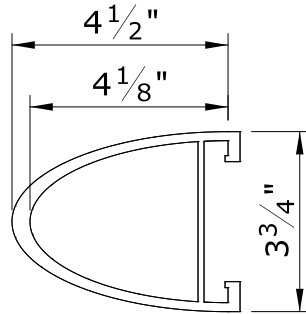
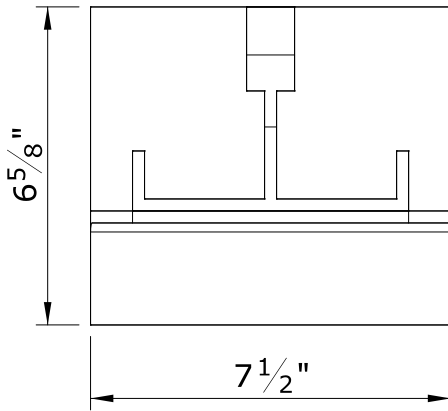
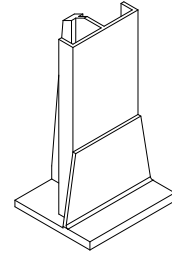
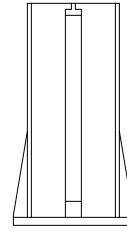
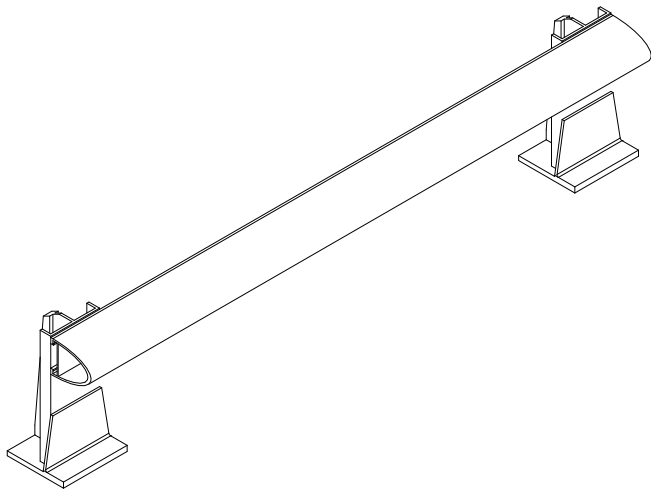
METAL BRIDGE RAIL
DOUBLE PIPE

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

DL-R.1



METAL BRIDGE RAIL		
WEIGHT OF RAILS	4	PLF
WEIGHT OF POST	9	LB

1. WEIGHT DATA WAS DETERMINED WITH A UNIT WEIGHT OF 175 PCF FOR ALUMINUM WITH A 10% INCREASE TO ACCOUNT FOR CONNECTIONS.

2. THE WEIGHT OF POST ITEM INCLUDES THE WEIGHT OF THE EXTRUDED ALUMINUM PLUS THE WEIGHT OF THE BASE PLATE.

CTDOT
BLRM

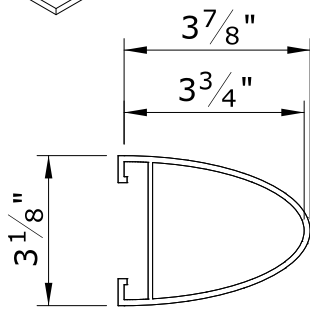
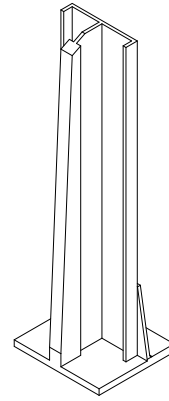
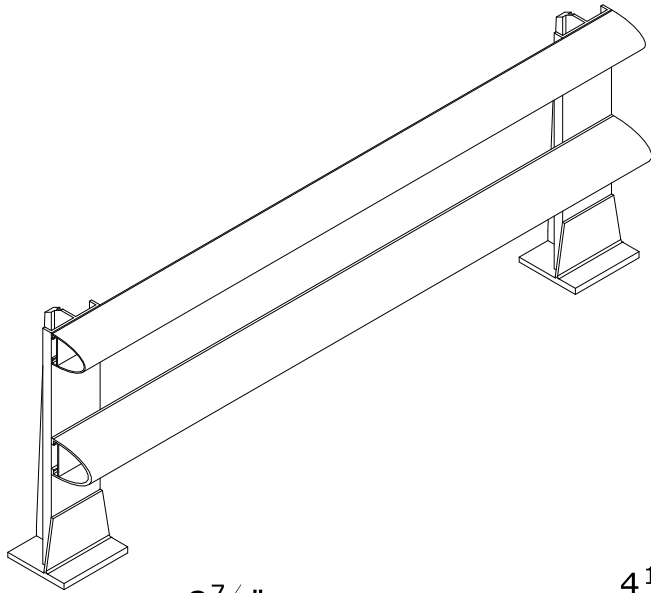
RATING AIDS

METAL BRIDGE RAIL
SINGLE SEMI-ELLIPTICAL RAIL

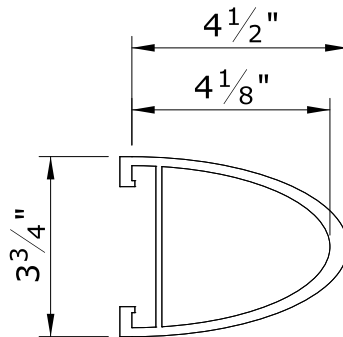
Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

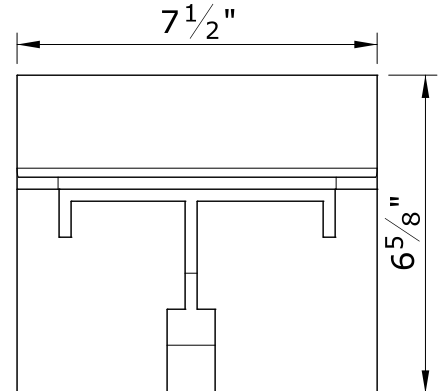
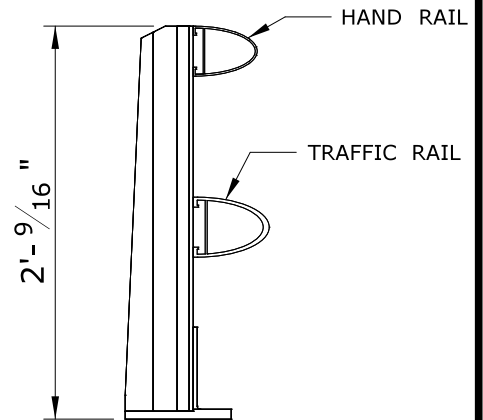
Plate ID:
DL-R.2



HAND RAIL



TRAFFIC RAIL



METAL BRIDGE RAIL		
WEIGHT OF RAILS	6	PLF
WEIGHT OF POST	14	LB

1. WEIGHT DATA WAS DETERMINED WITH A UNIT WEIGHT OF 175 PCF FOR ALUMINUM WITH A 10% INCREASE TO ACCOUNT FOR CONNECTIONS.

2. THE WEIGHT OF POST ITEM INCLUDES THE WEIGHT OF THE EXTRUDED ALUMINUM POST AS SHOWN, PLUS THE WEIGHT OF THE BASE PLATE.

CTDOT
BLRM

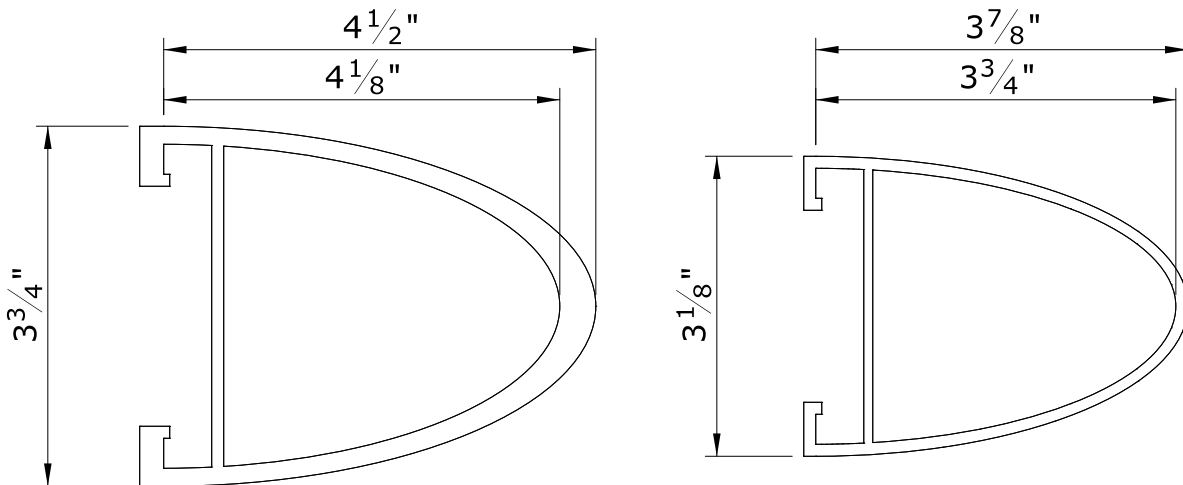
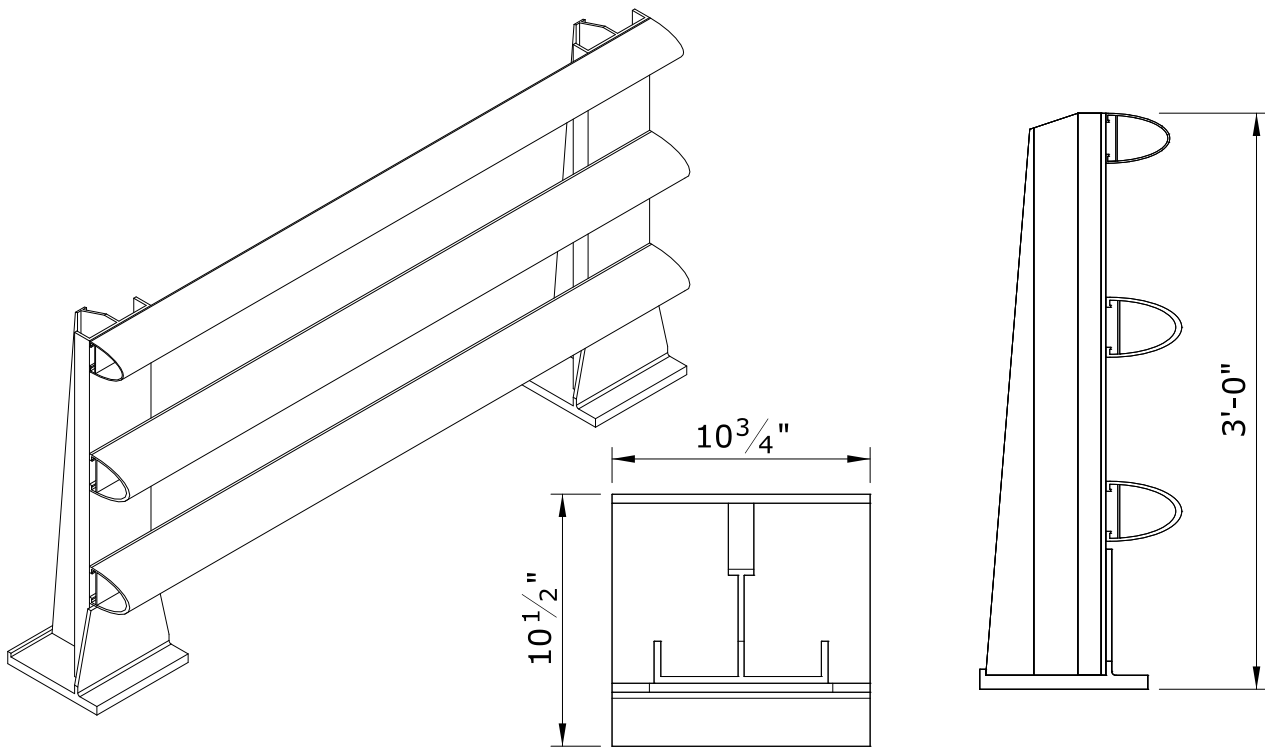
RATING AIDS

METAL BRIDGE RAIL
DOUBLE SEMI-ELLIPTICAL RAIL

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:
DL-R.3



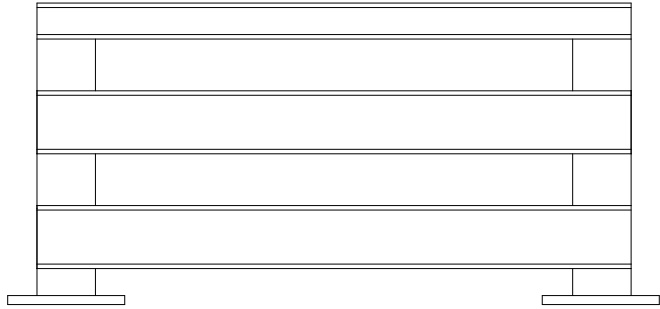
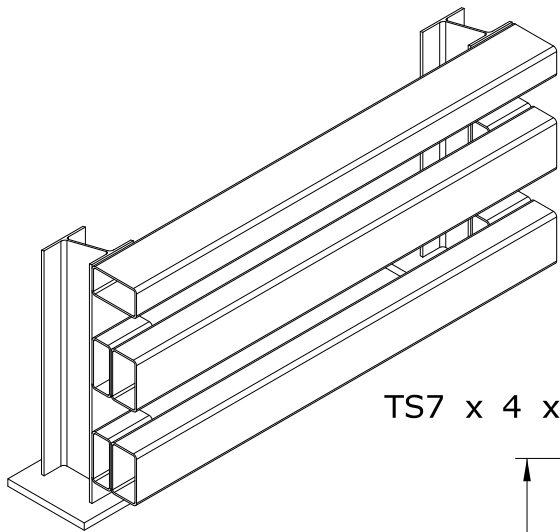
METAL BRIDGE RAIL		
WEIGHT OF RAILS	10	PLF
WEIGHT OF POST	36	LB

1. WEIGHT DATA WAS COMPUTED WITH A UNIT WEIGHT OF 175 PCF FOR ALUMINUM WITH A 10% INCREASE TO ACCOUNT FOR CONNECTIONS.
2. THE WEIGHT OF POST ITEM INCLUDES THE WEIGHT OF THE EXTRUDED ALUMINUM POST CUT AS SHOWN, PLUS THE WEIGHT OF THE BASE PLATE.

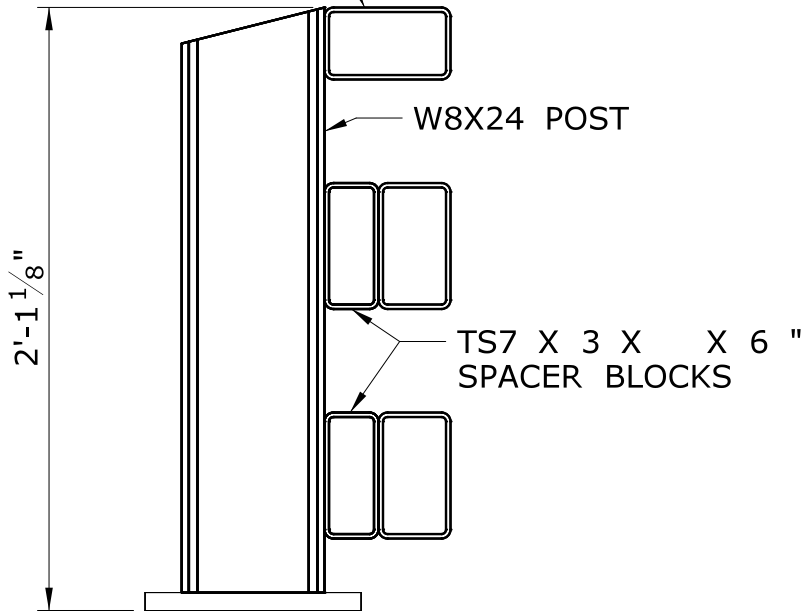
CTDOT
BLRM
RATING AIDS

METAL BRIDGE RAIL
TRIPLE SEMI -ELLIPTICAL RAIL

Rating Aid Version:
2018.1.0
Release Date:
3/29/2018
Plate ID:
DL-R.4



TS7 x 4 x 1/4 (TYP.)



METAL BRIDGE RAIL		
WEIGHT OF RAILS	55	PLF
WEIGHT OF POST	130	LB

1. WEIGHT DATA WAS DETERMINED WITH A UNIT WEIGHT OF 490 PCF FOR STEEL WITH A 10% INCREASE TO ACCOUNT FOR CONNECTIONS.

2. THE WEIGHT OF POSTS ITEM INCLUDES THE WEIGHT OF THE W8X24 POST CUT AS SHOWN, PLUS THE WEIGHT OF THE SPACER BLOCKS AND BASE PLATE.

CTDOT
BLRM

RATING AIDS

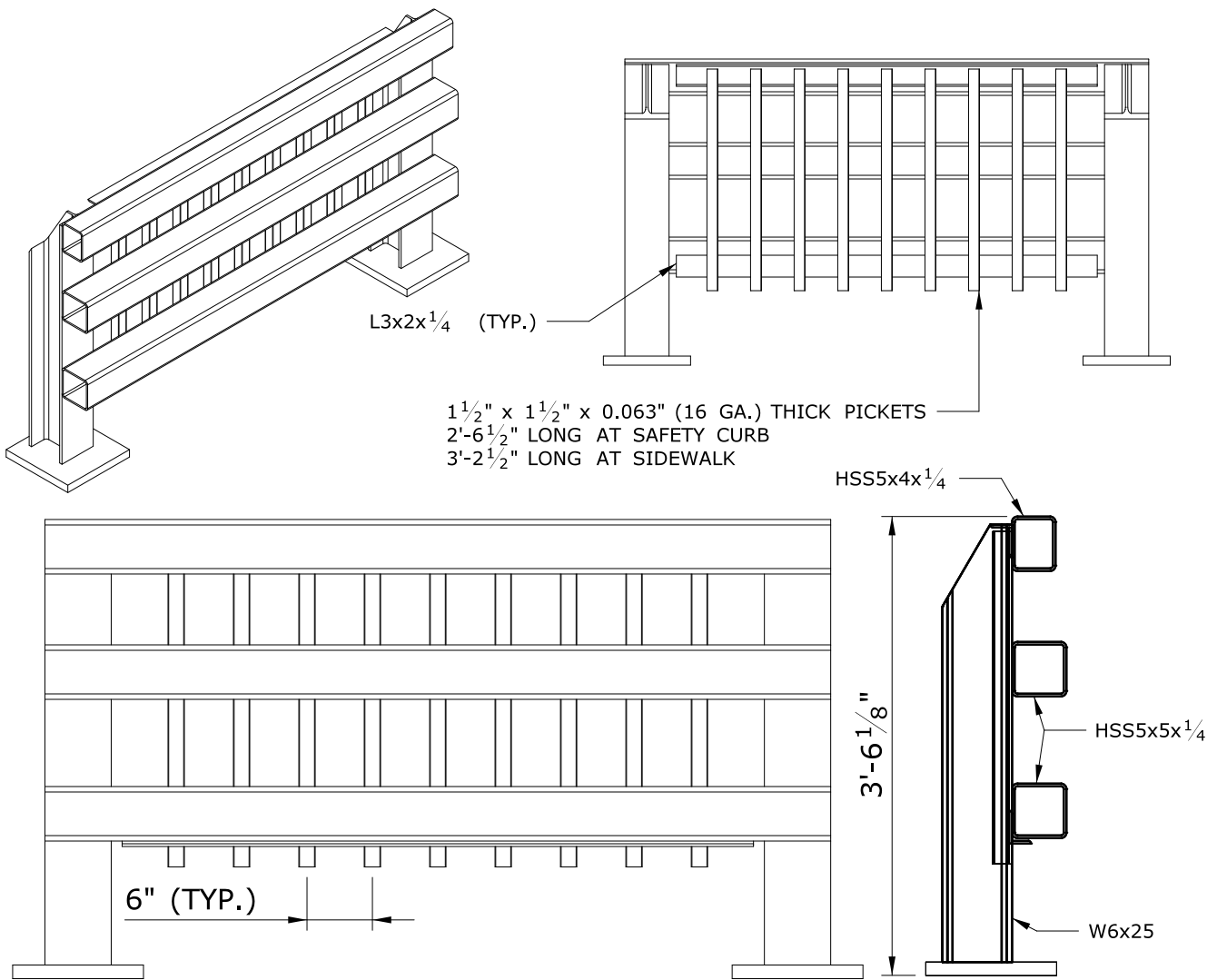
METAL BRIDGE RAIL
OREGON TUBULAR

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

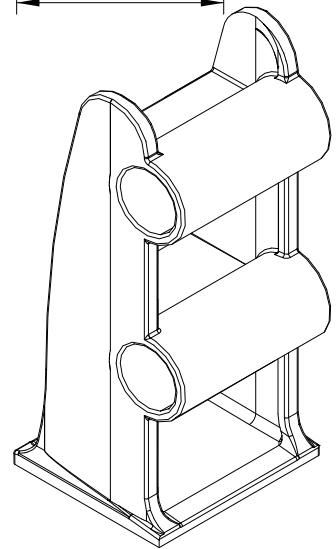
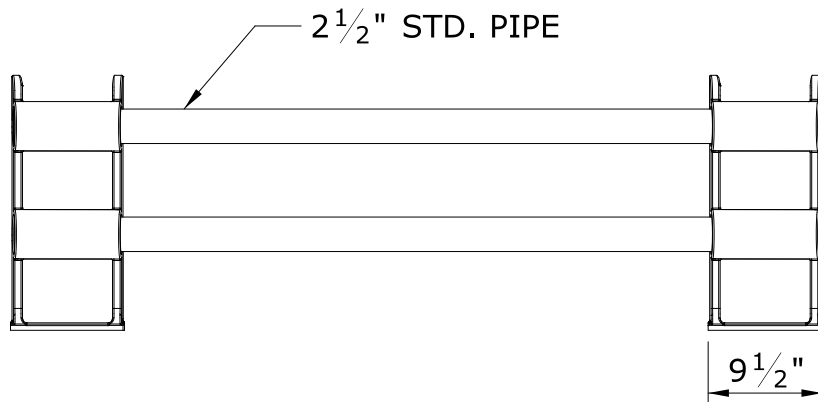
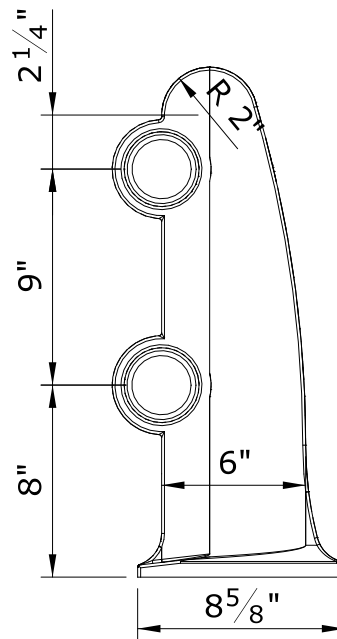
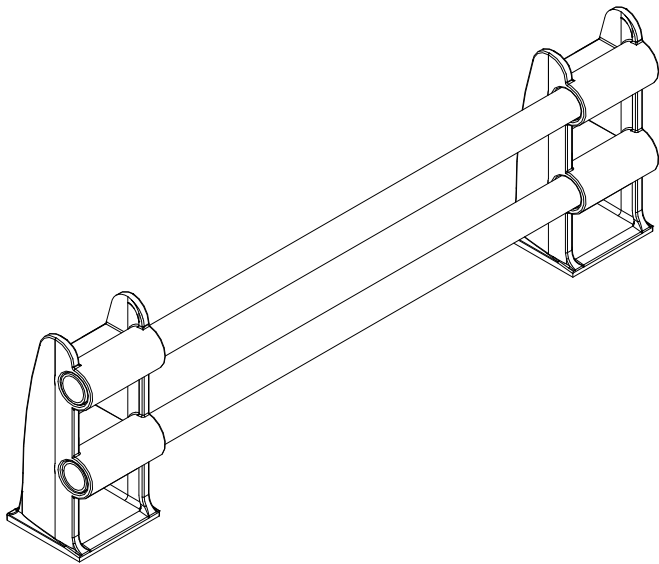
DL-R.5



METAL BRIDGE RAIL		
WEIGHT OF RAILS-SAFETY CURB	73	PLF
WEIGHT OF RAILS-SIDEWALK	75	PLF
WEIGHT OF POST	150	LB

1. WEIGHT DATA WAS DETERMINED WITH A UNIT WEIGHT OF 490 PCF FOR STEEL, WITH AN ADDITIONAL 10% ADDED FOR CONNECTIONS.
2. THE WEIGHT OF POST ITEM INCLUDES THE WEIGHT OF W6X25 CUT AS SHOWN, PLUS THE BASE PLATE.
3. THE WEIGHT OF RAILS ITEM INCLUDES THE WEIGHT OF HSS RAILS, THE L3X2X1/4 SUPPORT ANGLES, AND PICKETS.

CTDOT BLRM RATING AIDS	METAL BRIDGE RAIL MASS. TUBULAR	Rating Aid Version: 2018.1.0
		Release Date: 3/29/2018
		Plate ID: DL-R.6



METAL BRIDGE RAIL		
WEIGHT OF RAILS	13	PLF
WEIGHT OF POST	87	LB

1. WEIGHT DATA WAS DETERMINED WITH A UNIT WEIGHT OF 450 PCF FOR CAST IRON WITH A 10% INCREASE TO ACCOUNT FOR CONNECTIONS.

2. THE WEIGHT OF POST ITEM INCLUDES THE WEIGHT OF THE POST CAST AS SHOWN.

CTDOT
BLRM

RATING AIDS

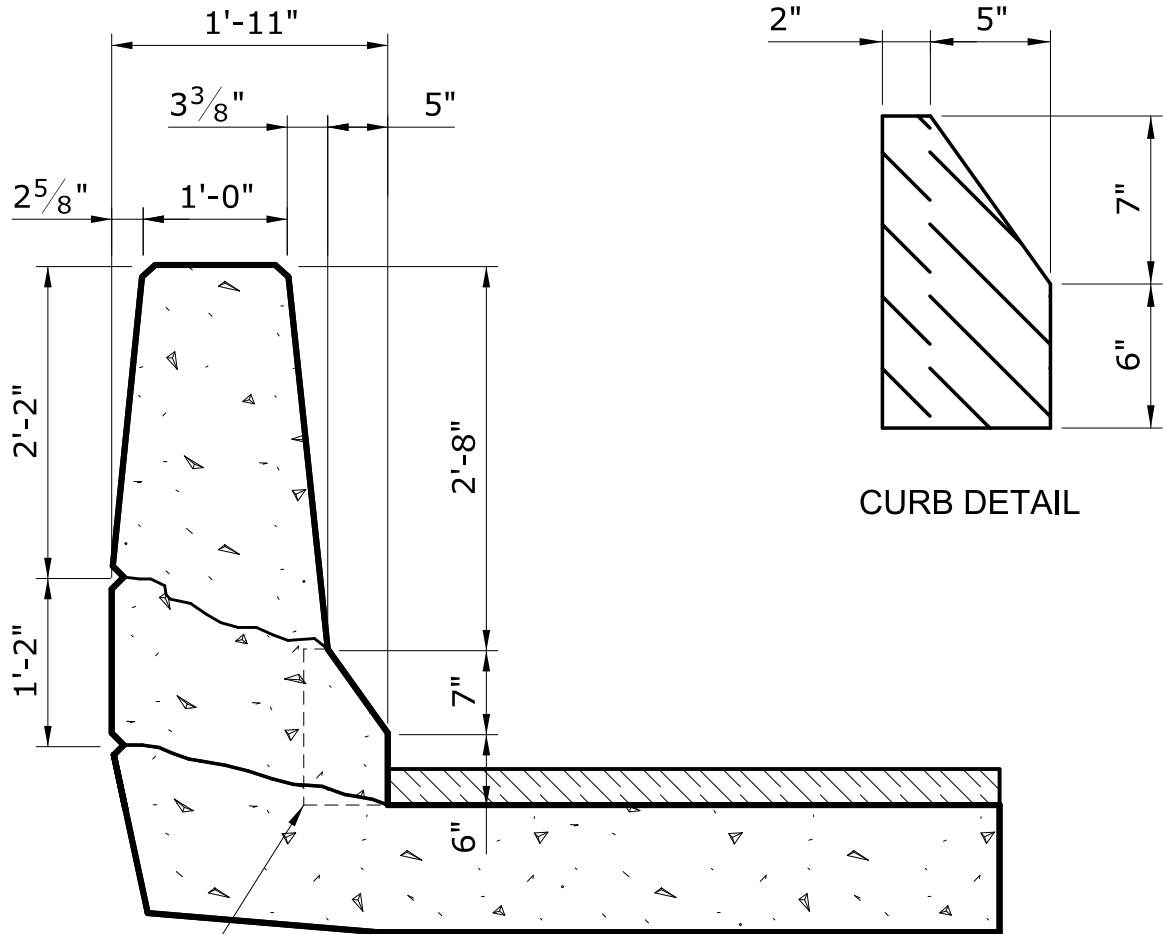
METAL BRIDGE RAIL
IRON POST

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

DL-R.7



SEE CURB DETAIL

CONCRETE BARRIER WEIGHT TABLE		
WEIGHT OF CONCRETE BARRIER	795	PLF
ADDITIONAL WEIGHT OF GRANITE CURB	10	PLF

1. WEIGHT OF CONCRETE BARRIER ITEM WAS COMPUTED BASED ON NORMAL WEIGHT CONCRETE WITH A UNIT WEIGHT OF 150 PCF.

2. ADDITIONAL WEIGHT OF GRANITE CURB ITEM IS COMPUTED BASED ON THE DIFFERENCE BETWEEN NORMAL WEIGHT CONCRETE AND A UNIT WEIGHT OF 170 PCF FOR STONE.

3. REASONABLE VARIATIONS BETWEEN THE DIMENSIONS SHOWN MAY BE NEGLECTED.

CTDOT
BLRM

RATING AIDS

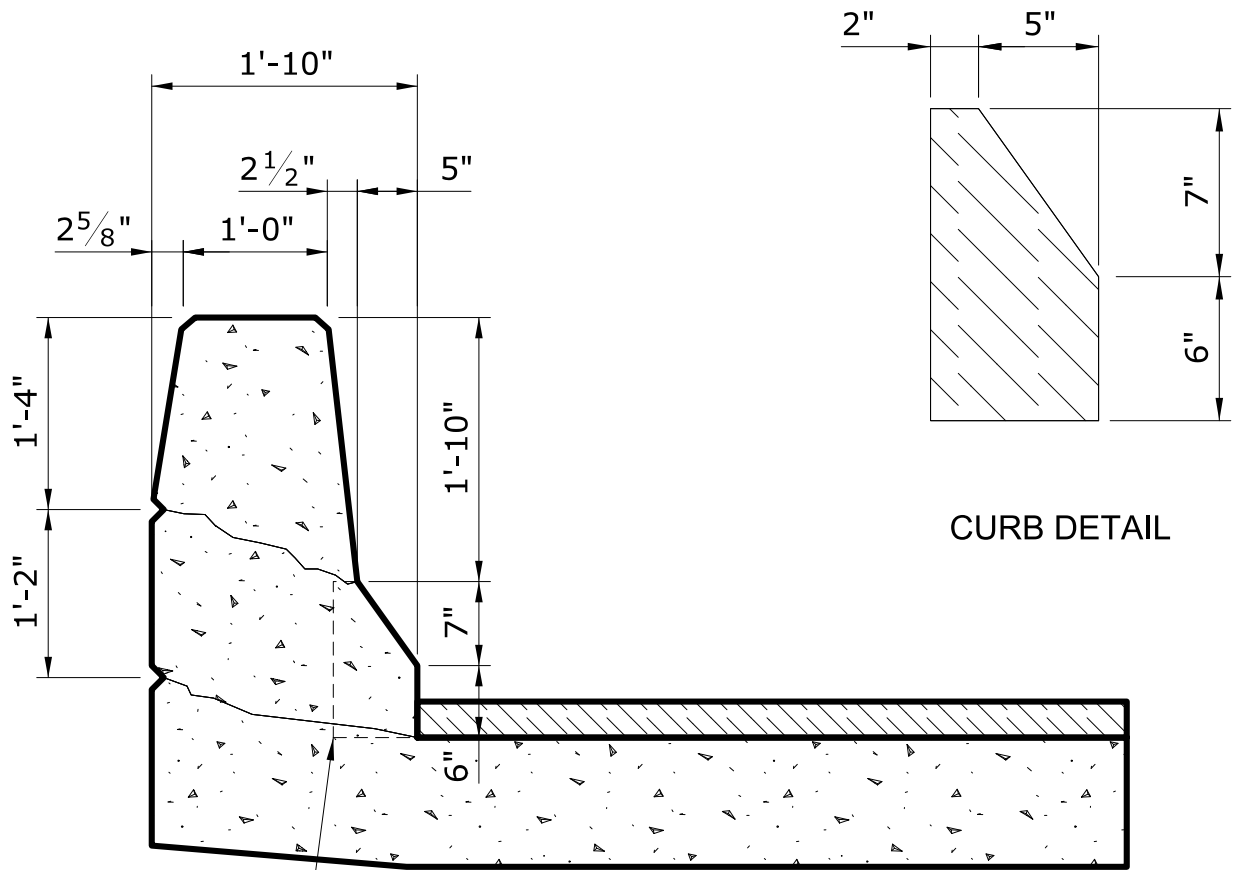
CONCRETE BARRIER
42" HIGH PARAPET

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

DL-B.1



SEE CURB DETAIL

CONCRETE BARRIER WEIGHT TABLE

WEIGHT OF CONCRETE BARRIER	625	PLF
ADDITIONAL WEIGHT OF GRANITE CURB	10	PLF

1. WEIGHT OF CONCRETE BARRIER ITEM WAS COMPUTED BASED ON NORMAL WEIGHT CONCRETE WITH A UNIT WEIGHT OF 150 PCF.

2. ADDITIONAL WEIGHT OF GRANITE CURB ITEM IS COMPUTED BASED ON THE DIFFERENCE BETWEEN NORMAL WEIGHT CONCRETE AND A UNIT WEIGHT OF 170 PCF FOR STONE.

3. REASONABLE VARIATIONS BETWEEN THE DIMENSIONS SHOWN MAY BE NEGLECTED.

CTDOT
BLRM

RATING AIDS

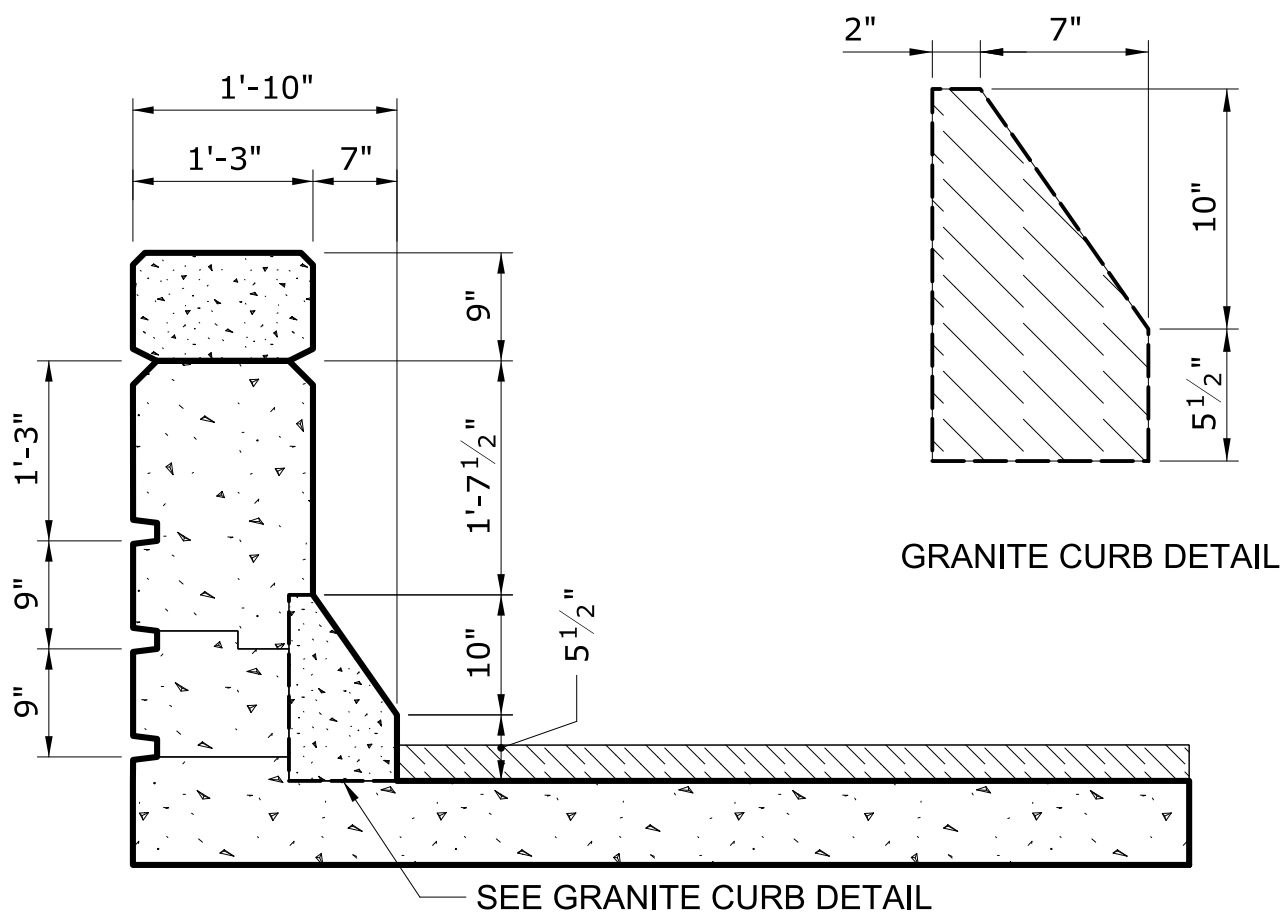
CONCRETE BARRIER
32" HIGH PARAPET

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

DL-B.2



GRANITE CURB DETAIL

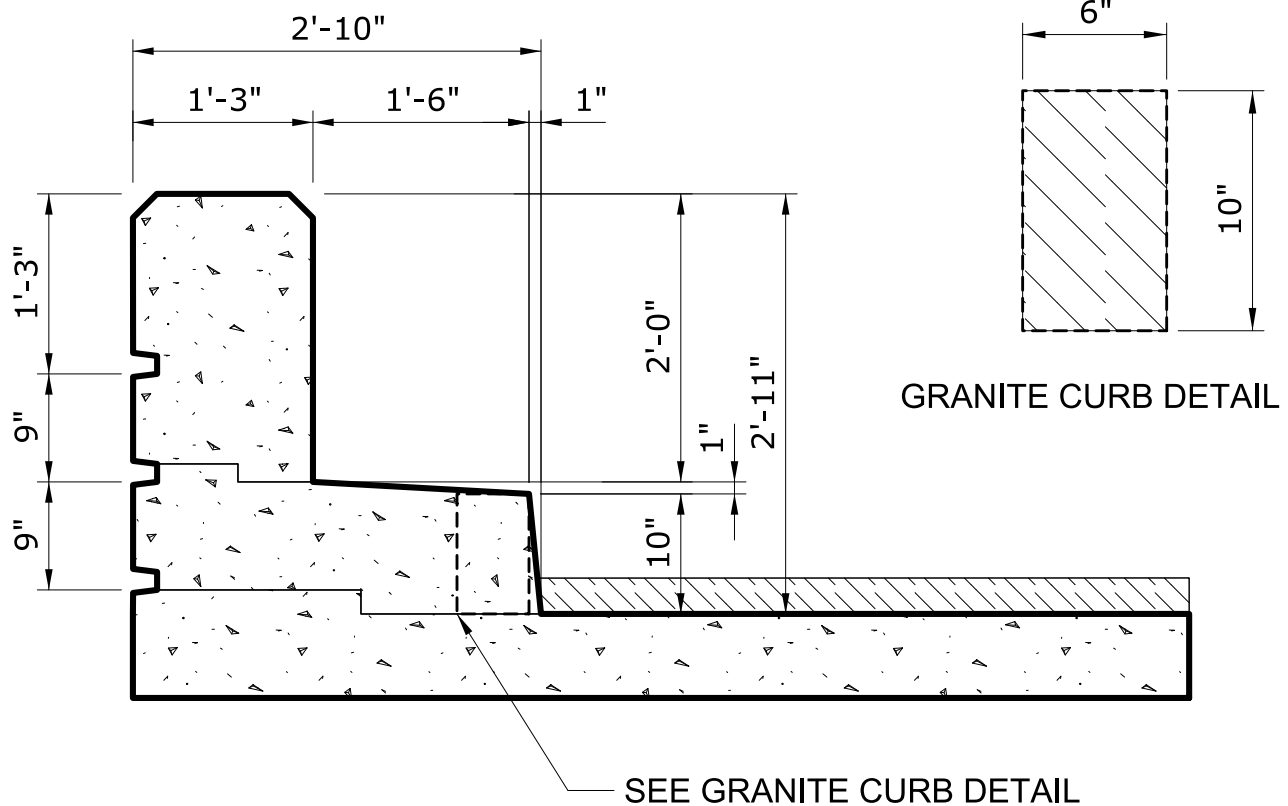
CONCRETE BARRIER WEIGHT TABLE		
WEIGHT OF CONCRETE BARRIER	765	PLF
ADDITIONAL WEIGHT OF GRANITE CURB	10	PLF

1. WEIGHT OF CONCRETE BARRIER ITEM WAS COMPUTED BASED ON NORMAL WEIGHT CONCRETE WITH A UNIT WEIGHT OF 150 PCF.
2. ADDITIONAL WEIGHT OF GRANITE CURB ITEM IS COMPUTED BASED ON THE DIFFERENCE BETWEEN NORMAL WEIGHT CONCRETE AND A UNIT WEIGHT OF 170 PCF FOR STONE.
3. REASONABLE VARIATIONS BETWEEN THE DIMENSIONS SHOWN MAY BE NEGLECTED.

CTDOT
BLRM
RATING AIDS

**CONCRETE BARRIER
RETROFITTED SAFETY WALK**

Rating Aid Version:
2018.1.0
Release Date:
3/29/2018
Plate ID:
DL-B.3



GRANITE CURB DETAIL

CONCRETE BARRIER WEIGHT TABLE		
WEIGHT OF CONCRETE BARRIER	760	PLF
ADDITIONAL WEIGHT OF GRANITE CURB	10	PLF

1. WEIGHT OF CONCRETE BARRIER ITEM WAS COMPUTED BASED ON NORMAL WEIGHT CONCRETE WITH A UNIT WEIGHT OF 150 PCF.

2. ADDITIONAL WEIGHT OF GRANITE CURB ITEM IS COMPUTED BASED ON THE DIFFERENCE BETWEEN NORMAL WEIGHT CONCRETE AND A UNIT WEIGHT OF 170 PCF FOR STONE.

3. REASONABLE VARIATIONS BETWEEN THE DIMENSIONS SHOWN MAY BE NEGLECTED.

CTDOT
BLRM

RATING AIDS

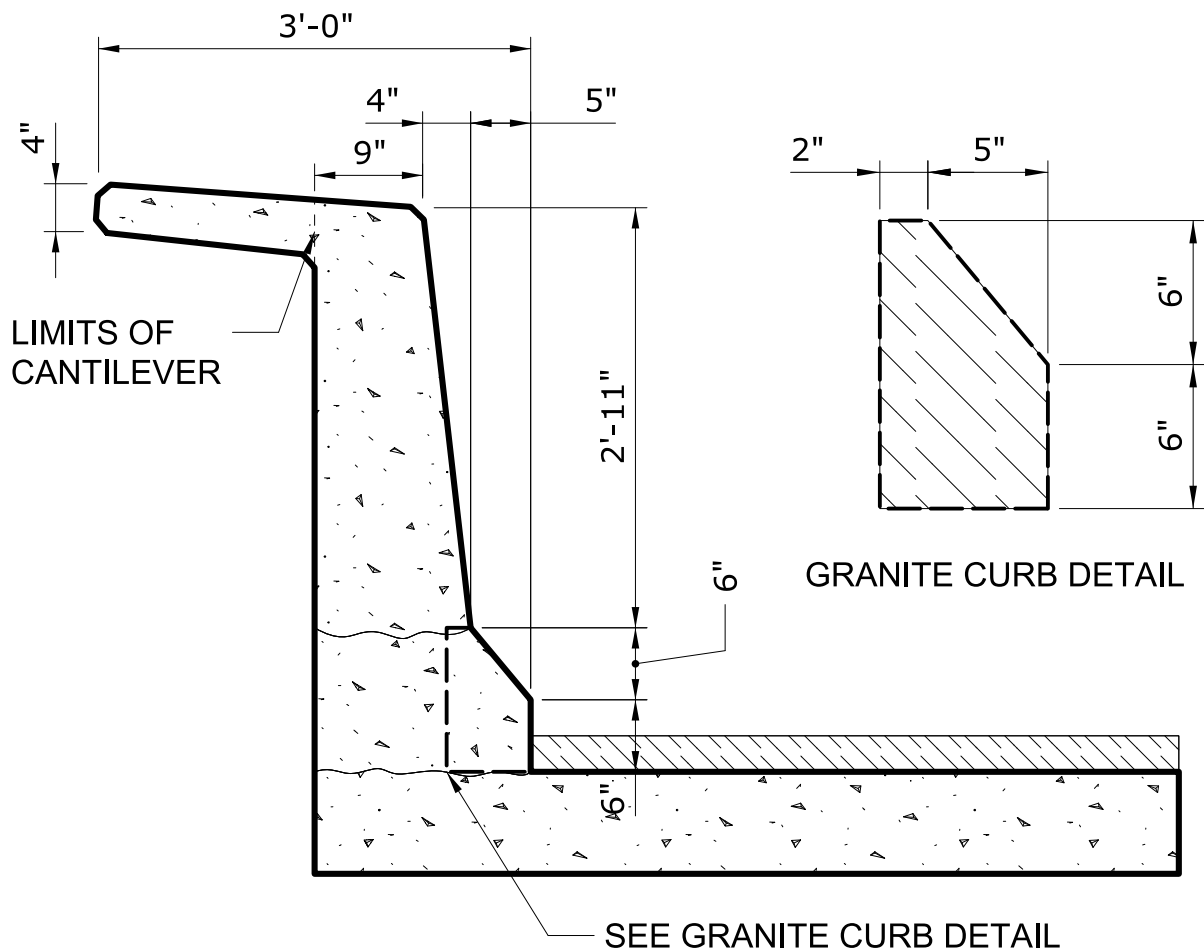
CONCRETE BARRIER
SAFETY WALK

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

DL-B.4



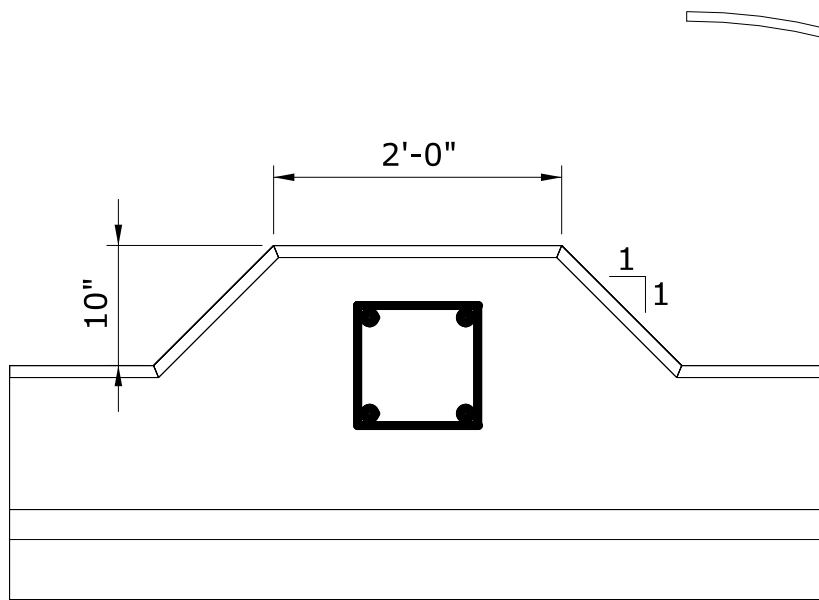
CONCRETE BARRIER WEIGHT TABLE		
WEIGHT OF CONCRETE BARRIER	695	PLF
ADDITIONAL WEIGHT OF GRANITE CURB	10	PLF

1. WEIGHT OF CONCRETE BARRIER ITEM WAS COMPUTED BASED ON NORMAL WEIGHT CONCRETE WITH A UNIT WEIGHT OF 150 PCF.
2. ADDITIONAL WEIGHT OF GRANITE CURB ITEM IS COMPUTED BASED ON THE DIFFERENCE BETWEEN NORMAL WEIGHT CONCRETE AND A UNIT WEIGHT OF 170 PCF FOR STONE.
3. REASONABLE VARIATIONS BETWEEN THE DIMENSIONS SHOWN MAY BE NEGLECTED.

CTDOT
BLRM
RATING AIDS

CONCRETE BARRIER
SPLIT MEDIAN 4'-9"

Rating Aid Version:
2018.1.0
Release Date:
3/29/2018
Plate ID:
DL-B.5



LIGHT STANDARD		
LIGHTING STANDARD	500	LB
32" PARAPET BUMPOUT	1250	LB
42" PARAPET BUMBOUT	1500	LB



1. LIGHTING STANDARD WEIGHT ITEM INCLUDES THE WEIGHT OF THE POLE SHAFT, BASE PLATE, LUMINAIRE ARM, AND LUMINAIRE. THIS VALUE CAN BE USED FOR SINGLE AND DOUBLE LUMINAIRE ARMED STRUCTURES.
2. PARAPET BUMPOUT DIMENSIONS INCLUDE ONLY THE WEIGHT OF THE ADDITIONAL CONCRETE PROVIDED IN THE BUMPOUT, WITH A UNIT WEIGHT OF 150 PCF.

CTDOT
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RATING AIDS

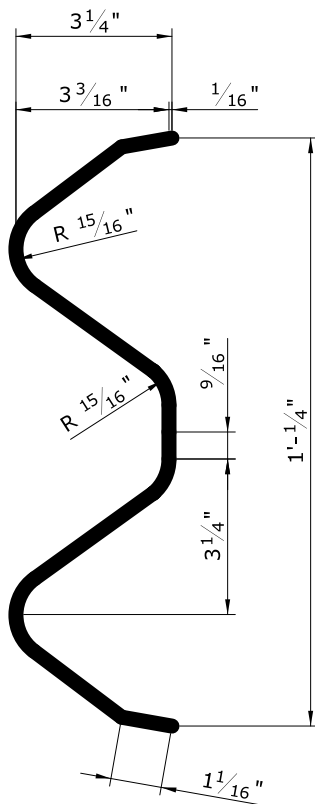
MISC. SYSTEM
LIGHTING STANDARD

Rating Aid Version:
2018.1.0

Release Date:
3/29/2018

Plate ID:

DL-M.1



W-Beam Rail

ROADSIDE BARRIER HARDWARE		
W-Beam Rail	10	PLF
Thrie Beam Rail	16	PLF
Merrit Parkway Rail	40	PLF
Three 3/4" Cable	4	PLF
Box Beam	16	PLF
Plastic Blockout	36	LB
Steel Blockout	10	LB
Timber Blockout	13	LB
Strong Post W6x8.5	30	LB
Weak Post S3x5.7	18	LB
Merrit Parkway Post	40	LB
Thrie Beam Post	40	LB

COMPONENTS OF ROADSIDE BARRIERS HAVE BEEN USED ON BRIDGE AND CULVERT STRUCTURES. THE ABOVE HARDWARE ITEMS ARE BASED ON HIGHWAY STANDARDS, CARE SHOULD BE TAKEN TO IDENTIFY IF THE HARDWARE USED WAS NOT MODIFIED FOR PARTICULAR BRIDGE APPLICATIONS.

COMMON ROADSIDE BARRIER SYSTEM			
GUIDERAIL	R-I	12	PLF
GUIDERAIL	R-B	16	PLF
GUIDERAIL	R-B 350	20	PLF
GUIDERAIL	MERRIT PARKWAY BARRIER	45	PLF
MEDIAN BARRIER	MD-I	22	PLF
MEDIAN BARRIER	MD-B	32	PLF
MEDIAN BARRIER	MD-B 350	36	PLF
MEDIAN BARRIER	MERRIT PARKWAY BARRIER	86	PLF

1. ITEMS WITHIN THE COMMON ROADSIDE BARRIERS ARE BASED ON THE CURRENT HIGHWAY DESIGN MANUAL CHAPTER 13 CONFIGURATIONS.
2. GUIDERAILS CONSIST OF ONE RAIL, ONE POST AND ONE BLOCKOUT IF APPLICABLE FOR THE SYSTEM.
3. MEDIAN BARRIERS CONSIST OF TWO RAILS, ONE POST AND TWO BLOCKOUTS IF APPLICABLE FOR THE SYSTEM.

CTDOT
BLRM
RATING AIDS

MISC. SYSTEMS
ROADSIDE BARRIER

Rating Aid Version:
2018.1.0
Release Date:
3/29/2018
Plate ID:
DL-M.2