





**New Jersey Department of Transportation**  
**Structural Evaluation Unit**

**GUSSET PLATE ANALYSIS INPUT**  
**Version 3.0.0**

<b>Project*</b>																	
<b>Consultant*</b>																	
<b>Agreement*</b>						<b>*Agreement Date</b>						<b>*Structure Name</b>					
<b>Group*</b>						<b>*Modification/Addendum Code</b>						<b>*Structure No.</b>					
<b>Total Plates</b>	<b>1</b>					<b>Modification/Addendum Date</b>						<b>Rated By</b>					
<b>*Required Fields</b>						<b>Modification/Addendum Date</b>						<b>Reviewed By</b>					

Plate No.	Plate Type	View Detail <b>MATERIAL, DEAD LOAD, AND OTHER - Inputs E, F, G</b>															
		E: Plate Material Strength Properties (in ksi)							E: Effect. Length Factor	E: Poisson Ratio	F: Unfactored Member Force due to Dead Load (in kips)					G: Loading Configuration & Non-Con. LL Reduction	
		F <sub>u</sub>	F <sub>y</sub>	F <sub>a-I</sub>	F <sub>a-O</sub>	F <sub>va-I</sub>	F <sub>va-O</sub>	E	K	ν	A <sub>DL</sub>	B <sub>DL</sub>	C <sub>DL</sub>	D <sub>DL</sub>	E <sub>DL</sub>	L <sub>config</sub>	NCR <sub>LL</sub>
A	B	E1	E2	E3	E4	E5	E6	E7	E8	E9	F1	F2	F3	F4	F5	G1	G2
1	Bolted	58	36	27	37	16.5	22.5	29000	1.2	0.3	934.8	790	-309	-404	1343.5	maximum	1





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Plate No.	Plate Type	View Detail <b>BOLTS/RIVETS 1 - Inputs I, J</b>															
		I: Number of Shear/Slip Planes per Bolted/Riveted Gusset Plate					J: Total Number of Bolts/Rivets per member					J: Number of Bolts/Rivets in Edge (end) Plane of member					J: Gap
		$N_{sA}$	$N_{sB}$	$N_{sC}$	$N_{sD}$	$N_{sE}$	$N_A$	$N_B$	$N_C$	$N_D$	$N_E$	$n_{brA}$	$n_{brB}$	$n_{brC}$	$n_{brD}$	$n_{brE}$	$G_p$
<b>A</b>	<b>B</b>	<b>I1</b>	<b>I2</b>	<b>I3</b>	<b>I4</b>	<b>I5</b>	<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>J4</b>	<b>J5</b>	<b>J6</b>	<b>J7</b>	<b>J8</b>	<b>J9</b>	<b>J10</b>	<b>J11</b>
1	Bolted	1	1	1	1	1	80	54	36	54	80	8.5	6	4	6	8.5	0



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<b>Agreement*</b>	<b>*Agreement Date</b>	<b>*Structure No.</b>	<b>Route</b>
<b>Group*</b>	<b>*Modification/Addendum Code</b>	<b>Rated By</b>	<b>Date</b>
<b>Total Plates</b>	<b>Modification/Addendum Date</b>	<b>Reviewed By</b>	<b>Date</b>
	1		

*\*Required Fields*

Plate No.	Plate Type	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid gray; padding: 2px;">View Detail</span> <h3 style="margin: 0;">BOLTS/RIVETS 2 - Inputs K, L</h3> </div>															
		K: Min. Clear Distance Between Edge Bolts/Rivets and Gusset/Splice plate edge along direction of force (in inches)					K: Minimum Clear Distance Between Inner Bolts/Rivets along the direction of force (in inches)					L: Bolt/Rivet & hole Diameter (in Inches)		L: Bolt/Rivet Shear (slip critical) Strength (ksi) & Optional Capacity Reduction			
		$L_{ceA}$	$L_{ceB}$	$L_{ceC}$	$L_{ceD}$	$L_{ceE}$	$L_{ciA}$	$L_{ciB}$	$L_{ciC}$	$L_{ciD}$	$L_{ciE}$	$D_b$	$D_h$	$F_{bolt\ va-I}$	$F_{bolt\ va-O}$	CR	$\phi F_{bolt}$
A	B	K1	K2	K3	K4	K5	K6	K7	K8	K9	K10	L1	L2	L3	L4	L5	L6
1	Bolted	1.34375	1.21875	1.21875	1.21875	1.34375	3.6875	2.9375	3.1875	2.9375	3.6875	1	1.125	0	0	0.1	30



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<b>Agreement*</b>	<b>*Agreement Date</b>	<b>*Structure Name</b>	
<b>Group*</b>	<b>*Modification/Addendum Code</b>	<b>*Structure No.</b>	<b>Route</b>
<b>Total Plates</b>	<b>Modification/Addendum Date</b>	<b>Rated By</b>	<b>Date</b>
	<b>1</b>	<b>Reviewed By</b>	<b>Date</b>

*\*Required Fields*

Plate No.	Plate Type	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>View Detail</span> <h3>FAILURE LENGTHS - Inputs M, N</h3> </div>															
		M: Shear Failure Lengths (in inches)							N: Tensile Failure Lengths (in inches)							N: Misc	
		L <sub>vA[1]</sub>	L <sub>vA2</sub>	L <sub>vB</sub>	L <sub>vC</sub>	L <sub>vD</sub>	L <sub>vE[1]</sub>	L <sub>vE2</sub>	L <sub>tA[1]</sub>	L <sub>tA2</sub>	L <sub>tB</sub>	L <sub>tC</sub>	L <sub>tD</sub>	L <sub>tE[1]</sub>	L <sub>tE2</sub>		
A	B	M1	M2	M3	M4	M5	M6	M7	N1	N2	N3	N4	N5	N6	N7	N8	N9
1	Bolted	44.625	44.625	33.75	35.75	33.75	44.625	44.625	29.5	29.5	17.5	12.375	17.5	29.5	29.5		



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<b>Group*</b>			<b>*Modification/Addendum Code</b>	<b>Rated By</b>	<b>Date</b>
<b>Total Plates</b>	<b>1</b>	<b>Modification/Addendum Date</b>		<b>Reviewed By</b>	<b>Date</b>
<b>*Required Fields</b>					

Plate No.	Plate Type	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>View Detail</span> <h3>WHITMORE LENGTHS - Inputs O, P</h3> </div>																
		O: Unbraced Compression Length (using Whitmore Width) (in inches)												P: Whitmore Width (in inches)				
A	B	L <sub>A1</sub>	L <sub>A2</sub>	L <sub>A3</sub>	L <sub>B1</sub>	L <sub>B2</sub>	L <sub>B3</sub>	L <sub>C1</sub>	L <sub>C2</sub>	L <sub>C3</sub>	L <sub>D1</sub>	L <sub>D2</sub>	L <sub>D3</sub>	LW <sub>A</sub>	LW <sub>B</sub>	LW <sub>C</sub>	LW <sub>D</sub>	LW <sub>E</sub>
1	Bolted	0	5.5	5.5	0	18.6875	0	12.5	12.5	12.5	0	18.6875	0	54.18	54.45	51.64	54.45	54.18







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<i>Agreement*</i>	_____	<i>*Agreement Date</i>	_____
<i>Group*</i>	_____	<i>*Modification/Addendum Code</i>	_____
<i>Total Plates</i>	<b>1</b>	<i>Modification/Addendum Date</i>	_____
		<i>Rated By</i>	_____
		<i>Reviewed By</i>	_____
		<i>Route</i>	_____
		<i>Date</i>	_____
		<i>Date</i>	_____

*\*Required Fields*

Plate No.	Plate Type	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid black; padding: 2px;">View Detail</span> <h2 style="margin: 0;">SECTIONS - Inputs R</h2> </div>															
		R: Horizontal Section A-A (in inches)			R: Vertical Section B-B (lengths in inches)					R: Vertical Section C-C (lengths in inches)					R: Misc		
		L <sub>AA</sub>	X <sub>A</sub>	Y <sub>A</sub>	L <sub>BB</sub>	X <sub>B</sub> , X <sub>BI</sub>	Y <sub>B</sub>	N <sub>BI</sub>	N <sub>BE</sub>	L <sub>CC</sub>	X <sub>C</sub> , X <sub>CI</sub>	Y <sub>C</sub>	N <sub>CI</sub>	N <sub>CE</sub>			
A	B	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16
1	Bolted	94.75	47.375	23.9625	77.75	6.1875	15.9375	72	8	77.75	6.1875	15.9375	72	8			



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<i>Agreement*</i>											<i>*Agreement Date</i>		<i>*Structure No.</i>			<i>Route</i>	
<i>Group*</i>											<i>*Modification/Addendum Code</i>			<i>Rated By</i>		<i>Date</i>	
<i>Total Plates</i>	1										<i>Modification/Addendum Date</i>			<i>Reviewed By</i>		<i>Date</i>	
<i>*Required Fields</i>																	

<b>Plate No.</b>	<b>Plate Type</b>	<b>LOAD DUE TO HS20-44 TRUCK - Input S</b>																
		<b>S: Max Live Load + Impact (Case 1) (in kips)</b>					<b>S: Max Live Load + Impact (Case 2) (in kips)</b>					<b>S: Misc</b>						
		<b>A<sub>LL1</sub></b>	<b>B<sub>LL1</sub></b>	<b>C<sub>LL1</sub></b>	<b>D<sub>LL1</sub></b>	<b>E<sub>LL1</sub></b>	<b>A<sub>LL2</sub></b>	<b>B<sub>LL2</sub></b>	<b>C<sub>LL2</sub></b>	<b>D<sub>LL2</sub></b>	<b>E<sub>LL2</sub></b>							
		<b>A</b>	<b>B</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>S7</b>	<b>S8</b>	<b>S9</b>	<b>S10</b>	<b>S11</b>	<b>S12</b>	<b>S13</b>	<b>S14</b>	<b>S15</b>
1	Bolted	265.000	324	-169	-271	413.8	265	324	-169	-271	413.8							



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<i>Agreement*</i>			<i>*Structure No.</i>	<i>Route</i>	
<i>Group*</i>			<i>*Agreement Date</i>	<i>Rated By</i>	<i>Date</i>
<i>Total Plates</i>	<b>1</b>	<i>*Modification/Addendum Code</i>	<i>Modification/Addendum Date</i>	<i>Reviewed By</i>	<i>Date</i>

*\*Required Fields*

Plate No.	Plate Type	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>View Detail</span> <h3 style="margin: 0;">LOAD DUE TO TYPE 3 TRUCK - Input S</h3> </div>															
		S: Max Live Load + Impact (Case 1) (in kips)					S: Max Live Load + Impact (Case 2) (in kips)					S: Misc					
		A <sub>LL1</sub>	B <sub>LL1</sub>	C <sub>LL1</sub>	D <sub>LL1</sub>	E <sub>LL1</sub>	A <sub>LL2</sub>	B <sub>LL2</sub>	C <sub>LL2</sub>	D <sub>LL2</sub>	E <sub>LL2</sub>	S27	S28	S29	S30	S31	S32
A	B	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26						
1	Bolted	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						



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<b>Agreement*</b>			<b>*Agreement Date</b>	<b>*Structure No.</b>	<b>Route</b>
<b>Group*</b>			<b>*Modification/Addendum Code</b>	<b>Rated By</b>	<b>Date</b>
<b>Total Plates</b>	<b>1</b>	<b>Modification/Addendum Date</b>		<b>Reviewed By</b>	<b>Date</b>

*\*Required Fields*

Plate No.	Plate Type	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 10px;">View Detail</div> <h3 style="margin: 0;">LOAD DUE TO TYPE 3S2 MOD. TRUCK - Input S</h3> </div>															
		S: Max Live Load + Impact (Case 1) (in kips)					S: Max Live Load + Impact (Case 2) (in kips)					S: Misc					
		A <sub>LL1</sub>	B <sub>LL1</sub>	C <sub>LL1</sub>	D <sub>LL1</sub>	E <sub>LL1</sub>	A <sub>LL2</sub>	B <sub>LL2</sub>	C <sub>LL2</sub>	D <sub>LL2</sub>	E <sub>LL2</sub>	S43	S44	S45	S46	S47	S48
A	B	S33	S34	S35	S36	S37	S38	S39	S40	S41	S42						
1	Bolted	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						



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<b>Group*</b>						<b>*Modification/Addendum Code</b>						<b>*Structure No.</b>					
<b>Total Plates</b>	<b>1</b>					<b>Modification/Addendum Date</b>						<b>Rated By</b>					
<b>*Required Fields</b>						<b>Modification/Addendum Date</b>						<b>Reviewed By</b>					

Plate No.	Plate Type	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>View Detail</span> <h3 style="margin: 0;">LOAD DUE TO TYPE 3-3 TRUCK - Input S</h3> </div>															
		S: Max Live Load + Impact (Case 1) (in kips)					S: Max Live Load + Impact (Case 2) (in kips)					S: Misc					
		A <sub>LL1</sub>	B <sub>LL1</sub>	C <sub>LL1</sub>	D <sub>LL1</sub>	E <sub>LL1</sub>	A <sub>LL2</sub>	B <sub>LL2</sub>	C <sub>LL2</sub>	D <sub>LL2</sub>	E <sub>LL2</sub>						
A	B	S49	S50	S51	S52	S53	S54	S55	S56	S57	S58	S59	S60	S61	S62	S63	S64
1	Bolted	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						



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<i>Group*</i>						<i>*Modification/Addendum Code</i>						<i>Rated By</i>					
<i>Total Plates</i>	<b>1</b>					<i>Modification/Addendum Date</i>						<i>Reviewed By</i>					
<i>*Required Fields</i>																	

<b>Plate No.</b>	<b>Plate Type</b>	<b>LOAD DUE TO H-15 TRUCK - Input S</b>															
		<b>S: Max Live Load + Impact (Case 1) (in kips)</b>					<b>S: Max Live Load + Impact (Case 2) (in kips)</b>					<b>S: Misc</b>					
		<b>A<sub>LL1</sub></b>	<b>B<sub>LL1</sub></b>	<b>C<sub>LL1</sub></b>	<b>D<sub>LL1</sub></b>	<b>E<sub>LL1</sub></b>	<b>A<sub>LL2</sub></b>	<b>B<sub>LL2</sub></b>	<b>C<sub>LL2</sub></b>	<b>D<sub>LL2</sub></b>	<b>E<sub>LL2</sub></b>						
		<b>A</b>	<b>B</b>	<b>S65</b>	<b>S66</b>	<b>S67</b>	<b>S68</b>	<b>S69</b>	<b>S70</b>	<b>S71</b>	<b>S72</b>	<b>S73</b>	<b>S74</b>	<b>S75</b>	<b>S76</b>	<b>S77</b>	<b>S78</b>
1	Bolted	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						



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<i>Group*</i>											<i>*Structure No.</i>				
<i>Total Plates</i>	<b>1</b>										<i>Route</i>				
											<i>Rated By</i>				
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											<i>Date</i>				

*\*Required Fields*

Plate No.	Plate Type	<b>LOAD DUE TO SU4 TRUCK - Input S</b>															
		S: Max Live Load + Impact (Case 1) (in kips)					S: Max Live Load + Impact (Case 2) (in kips)					S: Misc					
		<i>A<sub>LL1</sub></i>	<i>B<sub>LL1</sub></i>	<i>C<sub>LL1</sub></i>	<i>D<sub>LL1</sub></i>	<i>E<sub>LL1</sub></i>	<i>A<sub>LL2</sub></i>	<i>B<sub>LL2</sub></i>	<i>C<sub>LL2</sub></i>	<i>D<sub>LL2</sub></i>	<i>E<sub>LL2</sub></i>						
<b>A</b>	<b>B</b>	<b>S81</b>	<b>S82</b>	<b>S83</b>	<b>S84</b>	<b>S85</b>	<b>S86</b>	<b>S87</b>	<b>S88</b>	<b>S89</b>	<b>S90</b>	<b>S91</b>	<b>S92</b>	<b>S93</b>	<b>S94</b>	<b>S95</b>	<b>S96</b>
1	Bolted	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						



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<b>Group*</b>						<b>*Modification/Addendum Code</b>						<b>Rated By</b>					
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<i>*Required Fields</i>																	

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		S: Max Live Load + Impact (Case 1) (in kips)					S: Max Live Load + Impact (Case 2) (in kips)					S: Misc					
		A <sub>LL1</sub>	B <sub>LL1</sub>	C <sub>LL1</sub>	D <sub>LL1</sub>	E <sub>LL1</sub>	A <sub>LL2</sub>	B <sub>LL2</sub>	C <sub>LL2</sub>	D <sub>LL2</sub>	E <sub>LL2</sub>						
A	B	S97	S98	S99	S100	S101	S102	S103	S104	S105	S106	S107	S108	S109	S110	S111	S112
1	Bolted	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						





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<i>Agreement*</i>											<i>*Agreement Date</i>		<i>*Structure No.</i>			<i>Route</i>	
<i>Group*</i>											<i>*Modification/Addendum Code</i>			<i>Rated By</i>		<i>Date</i>	
<i>Total Plates</i>	1										<i>Modification/Addendum Date</i>			<i>Reviewed By</i>		<i>Date</i>	
<i>*Required Fields</i>																	

<b>Plate No.</b>	<b>Plate Type</b>	<b>LOAD DUE TO SU6 TRUCK - Input S</b>															
		<b>S: Max Live Load + Impact (Case 1) (in kips)</b>					<b>S: Max Live Load + Impact (Case 2) (in kips)</b>					<b>S: Misc</b>					
		<b>A<sub>LL1</sub></b>	<b>B<sub>LL1</sub></b>	<b>C<sub>LL1</sub></b>	<b>D<sub>LL1</sub></b>	<b>E<sub>LL1</sub></b>	<b>A<sub>LL2</sub></b>	<b>B<sub>LL2</sub></b>	<b>C<sub>LL2</sub></b>	<b>D<sub>LL2</sub></b>	<b>E<sub>LL2</sub></b>						
<b>A</b>	<b>B</b>	<b>S113</b>	<b>S114</b>	<b>S115</b>	<b>S116</b>	<b>S117</b>	<b>S118</b>	<b>S119</b>	<b>S120</b>	<b>S121</b>	<b>S122</b>	<b>S123</b>	<b>S124</b>	<b>S125</b>	<b>S126</b>	<b>S127</b>	<b>S128</b>
1	Bolted	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						



**New Jersey Department of Transportation**  
**Structural Evaluation Unit**

**GUSSET PLATE ANALYSIS INPUT**  
**Version 3.0.0**

<b>Project*</b>																	
<b>Consultant*</b>											<b>*Structure Name</b>						
<b>Agreement*</b>											<b>*Agreement Date</b>		<b>*Structure No.</b>			<b>Route</b>	
<b>Group*</b>											<b>*Modification/Addendum Code</b>			<b>Rated By</b>		<b>Date</b>	
<b>Total Plates</b>	<b>1</b>										<b>Modification/Addendum Date</b>			<b>Reviewed By</b>		<b>Date</b>	
<b>*Required Fields</b>																	

Plate No.	Plate Type	<div style="text-align: center;"> <input type="button" value="View Detail"/> <h3 style="margin: 0;">LOAD DUE TO SU7 TRUCK - Input S</h3> </div>															
		S: Max Live Load + Impact (Case 1) (in kips)					S: Max Live Load + Impact (Case 2) (in kips)					S: Misc					
		A <sub>LL1</sub>	B <sub>LL1</sub>	C <sub>LL1</sub>	D <sub>LL1</sub>	E <sub>LL1</sub>	A <sub>LL2</sub>	B <sub>LL2</sub>	C <sub>LL2</sub>	D <sub>LL2</sub>	E <sub>LL2</sub>						
A	B	S129	S130	S131	S132	S133	S134	S135	S136	S137	S138	S139	S140	S141	S142	S143	S144
1	Bolted	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						



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Version 3.0.0**

<b>Project*</b>																	
<b>Consultant*</b>																	
<b>Agreement*</b>						<b>*Agreement Date</b>						<b>*Structure Name</b>					
<b>Group*</b>						<b>*Modification/Addendum Code</b>						<b>*Structure No.</b>					
<b>Total Plates</b>	<b>1</b>					<b>Modification/Addendum Date</b>						<b>Rated By</b>					
<b>*Required Fields</b>						<b>Modification/Addendum Date</b>						<b>Reviewed By</b>					

Plate No.	Plate Type	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>View Detail</span> <h3>LOAD DUE TO EV2 TRUCK - Input S</h3> </div>															
		S: Max Live Load + Impact (Case 1) (in kips)					S: Max Live Load + Impact (Case 2) (in kips)					S: Misc					
		A <sub>LL1</sub>	B <sub>LL1</sub>	C <sub>LL1</sub>	D <sub>LL1</sub>	E <sub>LL1</sub>	A <sub>LL2</sub>	B <sub>LL2</sub>	C <sub>LL2</sub>	D <sub>LL2</sub>	E <sub>LL2</sub>						
A	B	S145	S146	S147	S148	S149	S150	S151	S152	S153	S154	S155	S156	S157	S158	S159	S160
1	Bolted	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						



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**GUSSET PLATE ANALYSIS INPUT  
Version 3.0.0**

<i>Project*</i>																									
<i>Consultant*</i>											<i>*Structure Name</i>														
<i>Agreement*</i>											<i>*Structure No.</i>					<i>Route</i>									
<i>Group*</i>											<i>*Agreement Date</i>					<i>Rated By</i>					<i>Date</i>				
<i>Total Plates</i>	<b>1</b>																								
											<i>*Modification/Addendum Code</i>					<i>Reviewed By</i>					<i>Date</i>				
<i>*Required Fields</i>																									

<b>Plate No.</b>	<b>Plate Type</b>	<b>LOAD DUE TO EV3 TRUCK - Input S</b>															
		<b>S: Max Live Load + Impact (Case 1) (in kips)</b>					<b>S: Max Live Load + Impact (Case 2) (in kips)</b>					<b>S: Misc</b>					
		<b>A<sub>LL1</sub></b>	<b>B<sub>LL1</sub></b>	<b>C<sub>LL1</sub></b>	<b>D<sub>LL1</sub></b>	<b>E<sub>LL1</sub></b>	<b>A<sub>LL2</sub></b>	<b>B<sub>LL2</sub></b>	<b>C<sub>LL2</sub></b>	<b>D<sub>LL2</sub></b>	<b>E<sub>LL2</sub></b>						
<b>A</b>	<b>B</b>	<b>S161</b>	<b>S162</b>	<b>S163</b>	<b>S164</b>	<b>S165</b>	<b>S166</b>	<b>S167</b>	<b>S168</b>	<b>S169</b>	<b>S170</b>	<b>S171</b>	<b>S172</b>	<b>S173</b>	<b>S174</b>	<b>S175</b>	<b>S176</b>
1	Bolted	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						