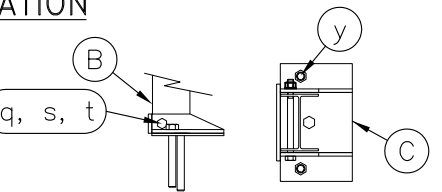


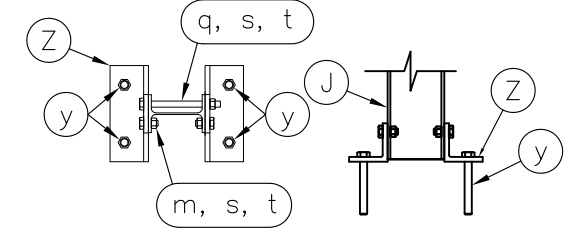
Impact Head Detail

ELEVATION



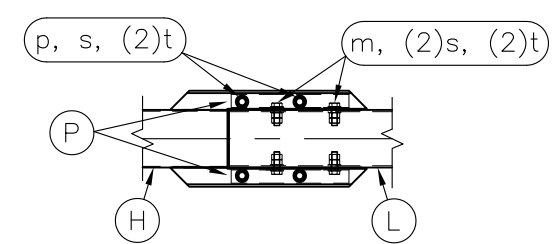
Anchor Post Base Detail

Note: If anchor studs are utilized, the center anchor stud may not exceed a height of 1.5" above the anchor plate.



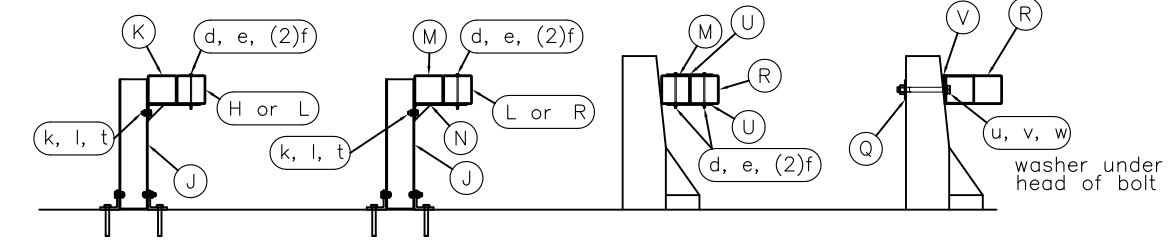
Line Post Base Detail

Note: Bolt q on downstream side of post only.

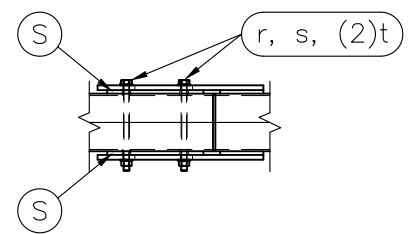


End Splice Channel Detail

ITEM P Splice Channels will set on the top and bottom of ITEM L Second Rail. The bent plates welded to the end of ITEM H End Tube Rail will set on top of ITEM P Splice Channels.



POSTS 2 THRU 6 POSTS 7 & 8 SECTION "A-A" SECTION "B-B"



Splice Plate Detail

ITEM	QTY	DESCRIPTION	PART #
A	1	Box-Beam Impact Head	B3000
B	1	Upper End Post W6x9 x 1'-9 1/2" LG.	BEAT-UP
C	1	Concrete Base Assembly Post 1	B-SS200
D	1	Support Bracket L4x2 x 4" LG.	BEAT-SB
E	1	Post Breaker Welded TS2x2x1/4"	BEAT-PB
F	1	Cable Anchor Assembly	E770
G	1	Cable Anchor Bearing Plate	E750
H	1	End Tube Rail x 8'-0" LG.	B-SS102
J	7	Steel Breakaway Line Post W6x9 x 2'-3" LG.	B-SS-PSM
K	5	Support Bracket w/ Blockout TS6x6 w/ Bent PL.	B-SS104
L	1	Second Rail x 16'-2 1/2" LG.	B-SS106
M	1	Transition Blockout x 5'-6 3/16" LG.	B-SS108
N	2	Trans. Support Bracket 3/16" Bent PL. w/ Gusset	B-SS110
P	2	Bent End Splice	BP-SC
Q	2	1" Square Washer PL. 4x4x1/4"	B-SS112
R	1	Anchor Rail x 8'-6 13/16" LG.	B-SS114
S	2	Splice Plate 10"x 10"x 3/8"	B-SS116
T	1	3/8" GALV. Cable x 20'-0"	C3820
U	6	Tie Plate PL. 11 1/2 x 3 1/2 x 3/16"	B-SS120
V	1	Spacer (OMIT ON 90° WALL)	B-SS122
Z	14	Concrete Base Angle Bracket Post 2-8	B-SS210
HARDWARE			
a	1	1/4" x 3" Hex Bolt Grade 2	B140304
b	1	1/4" Hex Nut	N014
c	1	1/4" Washer	W014
d	14	5/16" x 7 1/2" Hex Bolt Grade 5	B51607504A
e	14	5/16" Hex Nut	N0516
f	28	5/16" Washer	W0516
g	1	1/2" x 2" Hex Bolt	B120204
h	1	1/2" x 5" Hex Bolt Grade 5	B120504A
i	2	1/2" Hex Nut	N012
j	2	1/2" Washer	W012
k	7	5/8" x 1 1/2" Hex Bolt	B580154
l	7	5/8" Recess Nut	N050
m	18	5/8" x 2" Hex Bolt Grade 5	B580204A
o	1	5/8" x 3" Hex Bolt Grade 5	B580304A
p	4	5/8" x 6" Hex Bolt Grade 5	B580604A
q	8	5/8" x 8" Hex Bolt Grade 5	B580804A
r	4	5/8" x 9" Hex Bolt Grade 5	B580904A
s	39	5/8" Hex Nut	N055
t	54	5/8" Washer	W050
u	2	1" x 16" Hex Bolt Grade 5 (Length Varies see notes)	B101604A
v	4	1" Hex Nut Grade 5	N100A
w	4	1" Washer Grade 5	W100A
x	2	Cable Tie	CT100
y	31	3/4" Anchor (20 kip capacity) See Notes	

General Notes for the BEAT-SSCC-SM:

- 1) Unless otherwise noted, all hardware, cable assemblies, tubing, posts, impact heads and other steel components shall be galvanized.
- 2) The breakaway cable assembly must be taut. A locking device (vice grips or channel locks) should be used to prevent the cable from twisting when tightening nuts.
- 3) An object marker meeting State specifications should be installed on the front of the impact head.
- 4) The approach area in front of the BEAT-SSCC-SM and the area within the system itself shall be free of fixed obstacles and have a fill slope or a cut slope of 10:1 or flatter.
- 5) Due to its single-sided design, the BEAT-SSCC is not appropriate for use at locations where backside hits towards the rigid barrier are possible, e.g. in gore areas.
- 6) The connection of the BEAT-SSCC to the stationary rigid structure is critical to insure proper performance of the system. The length of the 1" bolts used to attach the system to the rigid structure will vary with the wall structure and will need to be determined in the field.
- 7) The system was crash tested with a 3/4" x 6" Powerfast Anchor (grade 5) that developed approximately 20,000 lb pullout resistance in the 4,500 psi concrete deck that was utilized. In decks in excess of 8" thick and 4,500 psi compressive strength with a continuous slab under the BEAT-SSCC extending 1.5' beyond the anchorage system, these same Powerfast Anchors may be used. In other configurations, adequate pull out strength in the specification of the anchor system needs to be developed by the design engineer.

 Road Systems, Inc. Big Spring, TX Phone: 432-263-2435 or Phone: 330-346-0721	BEAT-SSCC-SM Single Sided Crash Cushion	Sheet: A1
	Surface Mounted Assembly Drawing	Date: 02/21/13
Drawing Name: BEAT-SSCC-SM	Scale: NONE	By: JRR