



Letter of Transmittal

To: Chris Williams
VTRANS
61 VALLEY VIEW
MENDON, VT 05701
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Transmittal #: 28
Date: 7/20/2015
Job: M117 VTRANS CASTLETON BRF 015-2(10)

Subject: Submittal

- WE ARE SENDING YOU**
- Attached
 - Shop drawings
 - Copy of letter
 - Prints
 - Change order
 - Under separate cover via the following items:
 - Plans
 - Specifications
 - Samples
 - Submittal

Document Type	Copies	Date	No.	Description
Submittal	1		900.608-18 Rev 0	Spikes, Bolts, & Washers

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review and comment
- FOR BIDS DUE
- Approved as submitted
- Approved as noted
- Returned for corrections
- Other
- PRINTS RETURNED AFTER LOAN TO US
- Resubmit ___ copies for approval
- Submit ___ copies for distribution
- Return ___ corrected prints

Remarks: Please see attached submittal for Rail Road Spikes, Bolts & Washers from our sub SKE (Fiacco & Riley)

Copy To:

From: MIKE GARN (W.M. SCHULTZ CONSTRUCTION

Signature: 



PO Box 2620
Ballston Spa, NY 12020
Ph : 518 885-0060

Submittal

Job: M117
VTRANS CASTLETON BRF 015-2(10)
Castleton BRF 015-2
Route 30
Castleton, VT

Spec Section No: 900.608
Submittal No: 18
Revision No: 0
Sent Date: 7/20/2015

Spec Section Title:
Submittal Title: Spikes, Bolts, & Washers

Contractor:
W.M. Schultz Construction, Inc

VTRANS
Chris Williams

Contractor's Stamp

SCHULTZ CONSTRUCTION, INC.

CONTRACT NO. BRF 015-2

SUBMITTAL TITLE Spikes, Bolts & washers

ITEM & SECT. NO. _____

LOCATION OF WORK VT RT 30

SUB NO. 18 **DATE** 7/20/15

REVIEWED BY MB

Architect's Stamp

Engineer's Stamp

Fasteners



Track Spikes

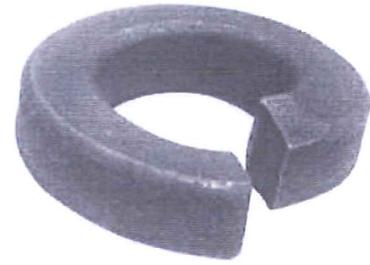
All spikes are manufactured to AREMA and ASTM standards with reinforced throat, chisel point and square body.

*Size	Item Number	Per Keg of 100 lbs	**Per Mile of Track	Per Yard
3/8" x 2-1/2"	065705	735	14.36	12 to 20
3/8" x 3"	44548	620	17.05	12 to 20
3/8" x 3-1/2"	42828	568	18.58	12 to 20
1/2" x 4-1/2"	42720	247	42.75	30 to 40
9/16" x 5-1/2"	31754	161	65.58	65 to 100
5/8" x 5-1/2"	38214	132	80.01	75 to 140
5/8" x 6"	30859	120	88	75 to 140

*Measured under head

**Based on ties spaced 24' center to center, 4 spikes per tie.

50 lb. & 200 lb. Kegs also available



Lock Washer

3/8" Square		AREMA 67	
Size	Item Number	Size	Item Number
3/4"	081126	3/4"	081123
7/8"	081127	7/8"	081122
15/16"	6383	15/16"	083424
1"	081125	1"	080936
1-1/16"	6379	1-1/16"	083426
1-1/8"	081124	1-1/8"	081120
1-3/8"	35212	1-3/8"	082014



Track Bolts

Bolts are manufactured to AREMA specifications with button head, oval neck and rolled thread. Heavy duty lock or spring washers are available from stock in 3/4", 7/8", 15/16", 1", 1-1/16" & 1-1/8".



Track Bolt Size	Item Number	Avg. No. Per Keg of 50 lbs.	*Kegs Per Mile of Track	Rail Weight Per Yard
1/2" x 2-1/2"	37691	208	6.73	20 to 25
5/8" x 2-1/2"	36971	128	10.93	30 to 40
5/8" x 3"	37692	115	12.04	30 to 40
3/4" x 3"	37886	75	18.68	40 to 45
3/4" x 3-1/2"	36503	67	20.9	50 to 60
3/4" x 4"	36258	62	22.56	70 to 75
7/8" x 4-1/2"	36259	41	34.16	85 to 90
7/8" x 5"	36260	38	42.72	90 to 100
7/8" x 5-1/2"	36502	37	43.9	90 to 100
15/16" x 5-1/4"	37346	33	49.22	90 to 100

Track Bolt Size	Item Number	Avg. No. Per Keg of 50 lbs.	*Kegs Per Mile of Track	Rail Weight Per Yard
15/16" x 5-1/2"	39393	31	52.4	90 to 100
1" x 5"	36966	28	58	90 to 100
1" x 5-1/2"	36100	27	60.15	110 to 130
1" x 5-3/4"	42507	27	60.17	110 to 130
1" x 6"	36099	25	64.96	131 to 140
1-1/16" x 6"	37766	24	67.66	131 to 140
1-1/16" x 6-1/4"	36501	22	73.83	131 to 140
1-1/8" x 6"	36377	19	85.49	131 to 140
1-1/8" x 6-1/2"	36967	18	89.83	131 to 140

*Kegs per mile of track - based on 30'-10% shorts for 60 lb rails and lighter; and 33'-10% shorts for 70 lb. rails and heavier, and all joints 4 hole punching.