

# New Jersey Turnpike Authority

P.O. Box 5042, Woodbridge, NJ 07095



November 19, 2024

## Document Change Announcement

***Standard Drawings  
Fall Protection for Sign Repair  
DCA2024SD-02***

### **Subject: Revisions to**

**Drawing VM-10 Overhead Span VMS/VSLs Support Structures - Bill Of Materials  
Drawing CM-10 Overhead Span HCMS Support Structures, Bill Of Materials**

### **Description of Change:**

The Falcon self-retracting lifeline product listed for Item 4.2 of the Bill of Materials on both Standard Drawings VM-10 and CM-10 has been discontinued. The item is replaced by a new MightyLite+ Series stainless steel self-retracting lifeline product released by Honeywell Miller in October 2024.

### **Notice to New Jersey Turnpike Authority Staff and Design Consultants**

Effective immediately, all contracts currently in the design phase shall incorporate the revisions herein. For advertised contracts awaiting the opening of bids this revision shall be incorporated via addendum. Contact your New Jersey Turnpike Authority Project Manager for instruction.

The revisions may be accessed on the Authority's webpage: <https://www.njta.com/doing-business/professional-services>

### **Recommended By:**

*(signature on original)*

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Lamis T. Malak, P.E.  
Deputy Chief Engineer - Design

### **Approved By:**

*(signature on original)*

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Daniel L. Hesslein, P.E.  
Acting Chief Engineer

*Distribution: Senior Staff Engineering, Law, Maintenance & Operations Depts., All Prequalified Consultant Firms, File*

BILL OF MATERIALS FOR HCMS SUPPORT STRUCTURE FABRICATION			
SUBASSEMBLY	ITEM NO.	ITEM DESCRIPTION	SOURCING INFORMATION
1.0 WALKWAY GRATING			
	1.1	STEEL GRATING (GALVANIZED)	MCNICHOLS SGW-125A-2
	1.2	NUT INSERTS	MCMaster-CARR - 98005A330
	1.3	SADDLE CLIPS	MCNICHOLS TYPE CB, STAINLESS STEEL
	1.4	BOLTS	MCMaster-CARR - 92196A331
	1.5	STAINLESS STEEL LOCKING CABLES TIES	MCMaster-CARR - 6898K45
2.0 METAL FENCING			
	2.1	EXPANDED METAL FENCING (GALVANIZED)	AMICO - ASF 1.5-9R
	2.2	GALVANIZED WASHER	FASTENAL - 0189951
	2.3	SPRING PLUNGER	MCMaster-CARR - 8691A18
	2.4	SAFETY EDGING	(SEE NOTE 5)
	2.5	NUT INSERTS	MCMaster-CARR - 98005A180
3.0 ACCESS DOOR			
	3.1	WELD-ON HINGE	MCMaster-CARR - 3636A6
	3.2	HANDLE (LOCKABLE, LADDER SIDE)	MCMaster-CARR - 1249A11
4.0 LADDER SYSTEM			
	4.1	HINGE	MCMaster-CARR - 1586A21 (SEE NOTE 4)
	4.2	STAINLESS STEEL SELF-RETRACTING LIFELINE	MILLER - MML-OSS1-01/30FT (SEE NOTE 6)
	4.3	SAFETY GATE	MCMaster-CARR - 4073K62
	4.4	NUT INSERTS	MCMaster-CARR - 98560A581
	4.5	RUBBER BUMPER WITH THREADED STUD	MCMaster-CARR - 9541K11
	4.6	EYENUT	MCMaster-CARR - 3019T18
	4.7	ANCHOR BOLT	MCMaster-CARR - 97799A301
5.0 WIRE PULL HAND HOLES			
	5.1	CAST STAINLESS STEEL DECK PLATE, 4" DIA.	MARINE HARDWARE INC. - SSDP110144
	5.2	6" STAINLESS STEEL GROMMET	MCMaster-CARR - 4911K11
6.0 TRUSS CONNECTION			
	6.1	PIPE NIPPLE	MCMaster-CARR - 7727K383 OR 7727K413
	6.2	NEOPRENE BEARING MATERIAL	MCMaster-CARR - 8630K84
	6.3	LOCK NUT	CUSTOM FABRICATION
	6.4	WASHER	CUSTOM FABRICATION
	6.5	CAST STAINLESS STEEL DECK PLATE, 6" DIA.	MARINE HARDWARE INC. - SSDP110254
	6.6	PIN W/ RECESS NUTS	WECALL INC
7.0 CMS CONNECTIVITY			
	7.1	2" WIRING HUBS	MCMaster-CARR - 7513K86
8.0 INTERIOR HAND RAILING			
	8.1	IRON HANDRAIL FITTING (GALVANIZED)	MCMaster-CARR - 4936T36/4936T19
9.0 EXTERIOR HAND RAILING			
	9.1	STAINLESS STEEL THREADED FLANGE	MCMaster-CARR - 44695K14
	9.2	NUT INSERT	MCMaster-CARR - 98560A593
	9.3	ALUMINUM THREADED PIPE POST	MCMaster-CARR - 5038K137
	9.4	ALUMINUM PIPE RAIL	MCMaster-CARR - 5038K22
	9.5	RAILING PIPE TEE (TOP RAIL)	MCMaster-CARR - 4698T16
	9.6	RAILING PIPE ELBOW (TOP RAIL)	MCMaster-CARR - 4698T33
	9.7	RAILING PIPE 3-OUTLET ELBOW (TOP RAIL)	MCMaster-CARR - 4698T113
	9.8	RAILING PIPE ELBOW WITH THRU-HOLE (MID RAIL)	MCMaster-CARR - 4698T38
	9.9	RAILING PIPE 2-PIECE ELBOW W/ THRU HOLE	MCMaster-CARR - 4698T75
10.0 SAFETY TIE OFF POINT			
	10.1	EYE NUTS	MCMaster-CARR - 3061T25
	10.2	THREADED CONNECTORS	MCMaster-CARR - 8947T27
	10.3	FLANGE HEX BOLT	MCMaster-CARR - 92316A628
	10.4	HOIST RING	MCMaster-CARR - 3046T75
11.0 PULLEY BLOCK ASSEMBLY			
	11.1	STAINLESS STEEL PULLEY BLOCK	MCMaster-CARR - 31625T41
	11.2	SHACKLES	MCMaster-CARR - 35895T116
	11.3	REMOVABLE FIGURE-EIGHT CONNECTING LINK	MCMaster-CARR - 1119N11

BILL OF MATERIALS NOTES:

1. THE BILL OF MATERIALS PRESENTED ON THIS SHEET IS PROVIDED FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE ITEMS SHOWN IN THIS BILL OF MATERIALS ARE CORRECT AND CURRENTLY AVAILABLE. SHOULD ANY OF THE SHOWN ITEMS NOT CONFORM TO THE DESIGN INTENT OF THESE STANDARD DRAWINGS OR THE STANDARD SPECIFICATIONS, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY. SHOULD ANY OF THE SHOWN ITEMS BECOME NO LONGER AVAILABLE FROM THE LISTED SOURCES, THE AUTHORITY SHALL BE CONTACTED IMMEDIATELY FOR SELECTION OF AN APPROVED ALTERNATE ITEM.
2. SHOP DRAWINGS AND/OR MANUFACTURER'S DETAILED LITERATURE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL FOR ALL ITEMS PRIOR TO INSTALLATION IN ACCORDANCE WITH THE SPECIFICATIONS.
3. EQUIVALENT ITEMS MAY BE SUBSTITUTED FOR ANY OF THE LISTED ITEMS WITH THE ENGINEER'S REVIEW AND APPROVAL. ALL MATERIAL, STRENGTH, AND SAFETY PROPERTIES OF THE SUBSTITUTED ITEMS SHALL BE EQUAL TO OR GREATER THAN THOSE OF THE LIST. THE OPEN AREA RATIO OF ANY SUBSTITUTED FENCING OR WALKWAY GRATING SHALL BE EQUAL TO OR LESS THAN THOSE LISTED.
4. PROVIDE CORROSION RESISTANT MASTER LOCK MODEL NO. 1175LHSS, OR APPROVED EQUAL.
5. SAFETY EDGING SHALL BE A FABRICATED U-SHAPE WITH TWO EQUAL OUTSTANDING LEGS 2" TALL WRAPPED AROUND THE EXPANDED METAL MESH, AND A 0.295" OPENING BETWEEN THE OUTSTANDING LEGS. SAFETY EDGING SHALL BE FABRICATED FROM GALVANIZED 18GA (0.0475") HOT ROLLED STEEL AND SECURED TO THE EXPANDED METAL MESH USING SS 1/4" DIA. x 1" LONG MACHINE SCREWS WITH NUT AND WASHER.

6. IN ITS FINAL CONDITION, THE LIFELINE SHALL BE FULLY RETRACTED INTO ITS HOUSING WITH A TAG LINE EXTENDED FROM THE HOOK ON THE LINE DOWN TO THE EYENUT IN THE PEDESTAL. FOR EXPOSED PEDESTAL HEIGHTS ABOVE 12'-0", PROVIDE A 50 FT MODEL LIFELINE.

7. CONTACT INFORMATION FOR THE LISTED MANUFACTURERS:

AMICO (ALABAMA METAL INDUSTRIES CORPORATION)  
3245 FAYETTE AVENUE  
BIRMINGHAM, AL 35208  
1-800-366-2642  
WWW.AMICOSECURITY.COM

MCMaster-CARR  
200 NEW CANTON WAY  
ROBBINSVILLE, NJ 08691  
1-609-689-3000  
WWW.MCMaster.COM

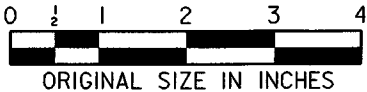
MCNICHOLS CO.  
2502 NORTH ROCKY POINT DRIVE, SUITE 950  
TAMPA, FL 33607-1421  
1-800-237-3820  
WWW.MCNICHOLS.COM

MARINE HARDWARE INC.  
P.O. BOX 3099  
REDMOND, WA. 98073  
425-883-0651  
WWW.MARINEHARDWARE.COM

FASTENAL  
2001 THEURER BLVD.  
WINONA, MN 55987  
1-507-454-5374  
WWW.FASTENAL.COM

MILLER FALL PROTECTION  
1345 15th STREET  
FRANKLIN, PA 16323  
1-800-873-5242  
WWW.MILLERFALLPROTECTION.COM

WECALL INC  
P.O. BOX 39  
64 PENNIMAN RD  
ORWELL, OH 44072  
1-440-499-6450  
WWW.WECALLINC.COM



	5	11/24	REVISED ITEM
	4	10/23	REVISED AND ADDED ITEMS, REVISED SOURCING INFO AND UPDATED VENDOR LISTING
	3	4/16	REVISED ITEM
	2	3/14	REVISED AND ADDED ITEMS
	1	4/11	REVISED AND ADDED ITEMS AND SOURCING INFO
	0	1/10	ORIGINAL DRAWING
APP.	NO.	DATE	REVISION

NEW JERSEY TURNPIKE AUTHORITY NEW JERSEY TURNPIKE	
OVERHEAD SPAN HCMS SUPPORT STRUCTURES BILL OF MATERIALS	
OFFICE OF THE CHIEF ENGINEER NEW JERSEY TURNPIKE AUTHORITY	2010 STANDARD DRAWING CM-10
WOODBIDGE	NEW JERSEY

BILL OF MATERIALS FOR VMS/VSLs SUPPORT STRUCTURE FABRICATION			
SUBASSEMBLY	ITEM NO.	ITEM DESCRIPTION	SOURCING INFORMATION
1.0 WALKWAY GRATING			
	1.1	STEEL GRATING (GALVANIZED)	MCNICHOLS SGW-125A-2
	1.2	NUT INSERTS	MCMaster-CARR - 98005A330
	1.3	SADDLE CLIPS	MCNICHOLS TYPE CB, STAINLESS STEEL
	1.4	BOLTS	MCMaster-CARR - 92196A331
	1.5	STAINLESS STEEL LOCKING CABLES TIES	MCMaster-CARR - 6898K45
2.0 METAL FENCING			
	2.1	EXPANDED METAL FENCING (GALVANIZED)	AMICO - ASF 1.5-9R
	2.2	GALVANIZED WASHER	FASTENAL - 0189951
	2.3	SPRING PLUNGER	MCMaster-CARR - 8691A18
	2.4	SAFETY EDGING	(SEE NOTE 5)
	2.5	NUT INSERTS	MCMaster-CARR - 98005A180
3.0 ACCESS DOOR			
	3.1	WELD-ON HINGE	MCMaster-CARR - 3636A6
	3.2	HANDLE (LOCKABLE, LADDER SIDE)	MCMaster-CARR - 1249A11
4.0 LADDER SYSTEM			
	4.1	HINGE	MCMaster-CARR - 1586A21 (SEE NOTE 4)
	4.2	STAINLESS STEEL SELF-RETRACTING LIFELINE	MILLER - MML-OSS1-01/30FT (SEE NOTE 6)
	4.3	SAFETY GATE	MCMaster-CARR - 4073K62
	4.4	NUT INSERTS	MCMaster-CARR - 98560A581
	4.5	RUBBER BUMPER WITH THREADED STUD	MCMaster-CARR - 9541K11
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5.0 WIRE PULL HAND HOLES			
	5.1	CAST STAINLESS STEEL DECK PLATE, 4" DIA.	MARINE HARDWARE INC. - SSDP110144
	5.2	6" STAINLESS STEEL GROMMET	MCMaster-CARR - 4911K11
6.0 TRUSS CONNECTION			
	6.1	PIPE NIPPLE	MCMaster-CARR - 7727K351
	6.2	NEOPRENE BEARING MATERIAL	MCMaster-CARR - 9013K37
	6.3	2" DIA. LOCK NUT	MCMaster-CARR - 44605K217
	6.4	WASHER	MCMaster-CARR - 93550A130
	6.5	CAST STAINLESS STEEL DECK PLATE, 5" DIA.	MARINE HARDWARE INC. - SSDP110244
	6.6	PIN W/ RECESS NUTS	WECALL INC
7.0 VMS/VSLs CONNECTIVITY			
	7.1	2" WIRING HUBS	MCMaster-CARR - 7513K86
8.0 INTERIOR HAND RAILING			
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7. CONTACT INFORMATION FOR THE LISTED MANUFACTURERS:

AMICO (ALABAMA METAL INDUSTRIES CORPORATION)  
3245 FAYETTE AVENUE  
BIRMINGHAM, AL 35208  
1-800-366-2642

WWW.AMICOSECURITY.COM

MCMaster-CARR  
200 NEW CANTON WAY  
ROBBINSVILLE, NJ 08691

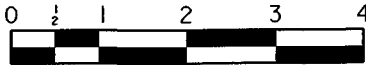
1-609-689-3000  
WWW.MCMaster.COM

MCNICHOLS CO.  
2502 NORTH ROCKY POINT DRIVE, SUITE 950  
TAMPA, FL 33607-1421  
1-800-237-3820  
WWW.MCNICHOLS.COM

FASTENAL  
2001 THEURER BLVD.  
WINONA, MN 55987  
1-507-454-5374  
WWW.FASTENAL.COM

MARINE HARDWARE INC.  
P.O. BOX 3099  
REDMOND, WA. 98073  
425-883-0651  
WWW.MARINEHARDWARE.COM  
  
MILLER FALL PROTECTION  
1345 15th STREET  
FRANKLIN, PA 16323  
1-800-873-5242  
WWW.MILLERFALLPROTECTION.COM

WECALL INC  
P.O. BOX 39  
64 PENNIMAN RD  
ORWELL, OH 44072  
1-440-499-6450  
WWW.WECALLINC.COM



ORIGINAL SIZE IN INCHES

	7	11/24	REVISED ITEM
	6	10/23	REVISED AND ADDED ITEMS, REVISED SOURCING INFO AND UPDATED VENDOR LISTING
	5	4/16	REVISED ITEM
	4	3/14	REVISED AND ADDED ITEMS
	3	3/11	REVISED AND ADDED ITEMS AND SOURCING INFO
	2	3/10	ADDED ITEMS AND REVISED SOURCING INFO
	1	4/09	UPDATE VENDOR LISTING
	0	8/08	ORIGINAL DRAWING
APP.	NO.	DATE	REVISION

NEW JERSEY TURNPIKE AUTHORITY  
**NEW JERSEY TURNPIKE**

OVERHEAD SPAN VMS/VSLs SUPPORT STRUCTURES  
**BILL OF MATERIALS**

OFFICE OF THE CHIEF ENGINEER  
NEW JERSEY TURNPIKE AUTHORITY  
WOODBIDGE NEW JERSEY

2008 STANDARD  
DRAWING **VM-10**