

**STATE OF NEW HAMPSHIRE**  
**Department of Administrative Services**  
**Bureau of Purchase and Property**  
**25 Capitol Street – Room 102**  
**Concord, New Hampshire 03301**

Date: 5/15/15

**NOTICE OF CONTRACT**

**COMMODITY:** TRAFFIC CONTROL DEVICES  
ROLL UP SIGNS, PADDLES, FLAGS, DELINEATORS,  
TEMPORARY OVERLAY MARKERS, BARRICADES

**CONTRACT #:** 8001661

**COMMODITY CODE:** 550-0000

**CONTRACTOR:** EASTERN METAL/USA SIGN                      VDR# 164734 B001  
1430 SULLIVAN  
ELMIRA, NY 14901

**CONTACT PERSON:** Sarah Jordan  
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**EFFECTIVE FROM:** January 1, 2015 through December 31, 2017

**ORDERING:**                      ORDERS SHALL BE PLACED DIRECTLY TO CONTRACTOR.

Prices quoted are available to all political sub-divisions of the State of New Hampshire as covered under RSA 21-I:17. Political sub-divisions, cities and towns to contact Contractor directly.

**DELIVERY:**                      20 BUSINESS DAYS FROM THE RECEIPT OF ORDER.

**MINIMUM ORDER:**              OVER \$1,000.00 – FOB DESTINATION  
UNDER \$1,000.00 – FOB: DESTINATION-FREIGHT ALLOWED

**PRICING:**

TRAFFIC CONTROL DEVICES, ROLL UP SIGNS, PADDLES, FLAGS, DELINEATORS, TEMPORARY OVERLAY MARKERS, BARRICADES

WARNING FLAGS		Cost
FROV-224/30	24" WITH DOWEL	\$3.10
FROV-218/30	18" WITH DOWEL	\$2.65
4X4X063-HI/AL	4" x 4" Aluminum Diamond-shaped Delineator w/High Intensity finish	\$1.35
TOM-Y-1S	Temporary Overlay Marker - Yellow, One-Sided, 500 Pieces/Box	\$0.65
TOM-Y-2S	Temporary Overlay Marker - Yellow, Two-Sided, 500 Pieces/Box	\$0.69
BARRICADES		
EM-400-PC	6-Volt Barricade Light w/Photocell, Off/Flash, Batteries NOT included	\$19.76
MFR 3D MODEL#300042	TYPE 1 OR TYPE II A-FRAME BARRICADE LEG	\$19.76
MFR 3D MODEL#302454	4' x 1" x 8" Plastic Barricade Rail Sheeted High Intensity Both Sides	\$26.41
MFR 3D MODEL#302584	6' x 1" x 8" Plastic Barricade Rail Sheeted High Intensity Both Sides	\$39.21
MFR 3D MODEL#302649	8' x 1" x 8" Plastic Barricade Rail Sheeted High Intensity Both Sides	\$52.00
MFR 3D MODEL#302714	10' x 2" x 8" Plastic Barricade Rail Sheeted High Intensity Both Sides	\$71.45
MFR 3D MODEL#302779	12' x 2" x 8" Plastic Barricade Rail Sheeted High Intensity Both Sides	\$85.55
MFR EMCO MODEL#SQB35-FRAME	GALVANIZED STEEL TYPEIII BARRICADE FRAME (INCLUDING BREAKAWAY HARDWARE)	\$57.50
	Flat fiberglass rods (battans?) that are used to hold the corners of the sign open (corner to corner)	\$7.00
	Clips / hardware that hold the rod to the corner	\$5.00

**Questions:**     **Robert Lawson, Purchasing Agent**  
                      **Phone:** 603-271-3147  
                      **Fax:**    603-271-7564  
                      **E-Mail:** [robert.lawson@nh.gov](mailto:robert.lawson@nh.gov)

**SIGNS:**

All signs available under this contract shall conform to requirements of the Manual of Uniform Traffic Control Devices (MUTCD). All signs shall be crash-tested and NCHRP-350 accepted with sign stands as specified

Roll-up signs:

Performance: Roll-up signs provided under this RFP / contract shall provide both retroreflectivity and a high degree of legibility for the motorist, and contribute to the safety of highway workers. The sign, when installed on existing sign stands, shall retain full visibility to the approaching motorist by remaining perpendicular and maintaining a flat viewing surface, in varying wind and traffic conditions. Sign and sign material shall be durable, highly reflective, and fluorescent and offer maximum visibility in all day/night light situations.

Sign panels shall be diamond or rectangular in shape.

**Material:** All roll-up signs shall be manufactured from a base material suitable for intended use, and have a reflective sign face material of retroreflective Reflexite Super Bright fluorescent orange sheeting material, ASTM type VI, or better. White material shall be reflective prismatic vinyl, Reflexite Classic/Superbright or equal. Non-reflective materials shall not be accepted. Mesh signs shall not be considered. Sign pockets for securing battens shall be two (2) each constructed of lexan/polycarbonate material permanently riveted to sign face. No stitched pockets shall be considered.

**High Performance Battens:**

48" diamond signs shall have a minimum 3/8" thick x 1-1/4" wide x (length required) vertical fiberglass battens and High Performance (HP) 5/16" thick X 1-1/4" wide x (length required) horizontal fiberglass batten. 36" (or larger) X (any dimension) rectangular signs shall have a 5/16" thick x 1-1/4" wide x (length required) fixed fiberglass batten and 5/16" thick X 1-1/4" wide x (length required) rotating HP fiberglass batten. 36" diamond signs shall have a 1/4" thick x 1-1/4" wide x (length required) vertical fiberglass batten and 1/4" thick X 1-1/4" wide x (length required) horizontal HP fiberglass batten. All signs shall be permanently roll-riveted to vertical or fixed batten with 1/8" rolled steel or aluminum rivet (minimum) and .060 clear lexan washers on sign front to inhibit "pull-through". Two (2) permanently affixed heavy duty Velcro "D-ring" tie assemblies shall be affixed to the sign and vertical batten to securely attach sign to large stand mast. Braces shall be connected with a

(minimum) 1/4" diameter rolled steel rivet supplemented with a washer on the two outside faces of the braces and a washer separating the two braces.

Horizontal batten shall smoothly pivot from center. Horizontal Cross Brace/Corner Pocket assembly shall be designed to accommodate the insertion of the horizontal cross brace without flexing. Pockets shall be Lexan/Poly-Carbonate based, or equal, securely attached to sign by means of (minimum) 4-3/16" diameter rolled steel rivets and a clear Lexan template on sign surface. All stationary and movable part (s) subject to wear shall be reliable over time, with any critical movable part to be easily field replaceable.

**Standard legends:** Letters, numerals, symbols and borders shall conform to the Federal Highway Administration "Standard Highway Signs" document/State of Vermont Agency of Transportation frequently used standard legends. All sign copy/legends shall be permanent for use on the material, and shall be screen-printed in permanent black ink. Legend shall also be printed on outside border at sign bottom so that sign legend is identifiable without unrolling the sign. Storage case: each panel shall be shipped rolled in its own (minimum) 18 ounce heavy-duty reinforced vinyl protective case with Velcro (hook and loop) closure and carrying handle at mid-point on case. Case shall be stenciled legibly to indicate the copy on the enclosed sign. Signs shall include all cross-braces.

**Overlays:** all overlays shall be of the same material as master sign blank and shall attach securely with two Velcro "loop" strips permanently sewn to entire overlay length (top and bottom). Velcro strips shall also be securely and completely sewn on corresponding sign location to match up with overlay. Signs shall be delivered with all overlays as ordered and shall have Velcro "hook" strip of same length (as "loop" on overlay) permanently stitched to sign master blank so as to align properly with top and bottom of overlay. Overlays shall completely cover sign text it is intended to replace.

**Operation:** All roll-up signs offered shall be furnished completely assembled and ready for intended use. Signs shall have the ability to be quickly and easily put into service by the average worker in varying wind and traffic conditions. This shall include unrolling, securely inserting battens in positive locking corner pocket assembly that maintains integrity with fiberglass supports and shall not work loose over time. All moveable parts or pieces shall be easily field replaceable or repairable. Signs shall have the ability to be easily rolled up for insertion in storage case when not in use.

Imprinting on sign back -Requirement for New Hampshire

**Each sign shall have owner & date printed on the back side.**

**Example:** "NH DOT District \_\_\_\_\_ "date \_\_\_\_/\_\_\_\_"

Requests may be made for custom signage from departments other than DOT and may require more characters.

Option for Incident Management: Signs as above, except sign facing shall be Superbright fluorescent pink (equal to or better than Reflexite) and with approved list of legends for Incident Management (MUTCD 2003, 61).

**Note:** "End road work" signs shall be rectangular in shape, and stand shall accommodate this sign.

Setup charge(s) for non-standard special legend shall be quoted in bid. No charge for custom legends shall be allowed except as quoted in response to this RFP.

**Sign covers:** For standard diamond 36" or 48" rigid signs, or corresponding 36" X 48" and 48" X 60" Speed Limit rectangles. "Sign-velope" design shall consist of black 18 ounce vinyl to completely cover and protect sign. Positive attachment to sign using two 1/4-turn buckle closure system shall be used to both protect sheeting and allow sign to breath, preventing potential de- lamination.

#### **PORTABLE WIND DEFLECTING SIGN STANDS**

**NOTE:** All bids shall include a statement of compliance with NCHRP Report 350, including a copy of the FHWA (Federal Highway Administration) letter providing their product acceptance for use on principle signs stands quoted and inventory in use. All Contractors shall note the manufacturer of roll-up signs and stands quoted, and letter shall include testing of one item with the other, in the name of the manufacturer used for items quoted.

Sign stands shall have been Crash Tested to meet the criteria of NCHRP-350 and be suitable for high- speed interstate applications. Sign stands shall be portable and foldable, of a wind deflecting type and shall be capable of displaying 48" and 36" (diamond or rectangular) (regular duty and high performance) vinyl roll-up work zone signs without overturning or rotating in open two to four lane roads with traffic speeds in excess of 65 MPH and high speed interstate applications, and without the need for exterior leg ballasts during most operations. Wind deflecting sign stands shall be designed to work effectively for minimum of 3-5 years,

with corrosion and fatigue resistant spring systems that always start at, and return to, a fully vertical position, over the normal life expectancy. All stands shall have four (4) adjustable legs with durable non-skid end caps of soft durometer, through-riveted to leg end.

**Note:** portable signs placed behind guardrail shall be capable of being raised high enough to display the entire sign above the guardrail.

**Note:** stands shall be able to accommodate sign that is rectangular in shape ("End road work")

**Mid-size 4-lane Stand for Rigid and Roll-up Signs:**

Interstate stands shall be constructed of galvanized steel. Weight of stand shall be a minimum of thirty-six (36) pounds and less than forty (40) pounds including two each rigid and one each roll-up brackets. Approximate open dimensions are 38" wide x 83" deep x 87" high. Minimum 1" tubular galvanized steel legs and mast shall attach to base, to be a minimum of 3/16" plate steel with baked enamel finish or powder painted flat black. Legs shall be 2-setting with independent movement, "locking" into open or folded positions. A minimum of two (2) "open" positions shall allow for adjustments to compensate for uneven terrain. Stand base shall include a wind deflecting spring mechanism using two heavy duty vertical springs, and shall include an anti-rotational feature to prevent the attached sign from spinning; spring deflecting system shall only flex forward and back. The latch assembly to receive the sign shall provide a positive guide and down stop position, and provide a secure attachment feature for the sign. Stand shall display rigid or roll-up signs at minimum 12" to 4 feet above grade. Stand shall be equipped with three flag holder brackets permanently secured to mast top. Leg release shall be kick-release latch or pull-pin.

Each stand shall be stamped or otherwise permanently labeled with the model number. Component replacement parts shall be available for purchase and shall be field replaceable with basic hand tools. All components, including bolts and fasteners, shall be heavy-duty aluminum, galvanized or powder-coated steel, or stainless steel. All material shall be first quality and have no defects or sharp edges.

**Compact sign stands:**

Compact sign stands shall be galvanized steel or heavy-duty aluminum. Weight shall be between 19 and 25 pounds. Two-piece telescoping legs shall be release by kick-release latch or pull-pin. Mast flex shall be adjustable without tools, to accommodate the load dynamics of both regular duty and high performance roll-LIP signs. Spring deflecting system shall only flex forward and back. Folded stand shall be no larger than approximately 8.5" x 8.5" x 26". The footprint with legs extended shall be approximately 44" wide x 71" deep x 26" high. Sign shall affix to stand at minimum 12" with adjustment to 20" above real grade. All other specifications for sign stands shall apply.

**Stop/slow paddles:**

Lightweight semi-rigid ABS plastic mounted on a 2-piece easily disconnected rigid 6 to 8 footstaff, minimum 1" diameter wood or rigid PVC with two sturdy ¼" plated steel bolts with lock nuts or rivets. Sign faces shall be retroreflective sheeting ASTM type VII, VIII or IX, with the SLOW side fluorescent orange and the STOP side red. Paddle signs shall be available in both 24" octagonal shape with 8" letters, and 18" octagonal with minimum 6" letters. Letters and border shall be retroreflectorized. The background for the STOP face shall be red with white letters and border. The background for the SLOW face shall be orange with black letters and border. Sign paddles shall conform to MUTCD Standard 6E.03.

**Paddle sign cover:**

Pouch or envelope, minimum 18 oz. orange vinyl with two (2) Velcro closures. Shall be available in two sizes for 18" and 24" paddles.

**Warning flags:**

24" X 24" square, bright fluorescent red-orange, nylon reinforced solid vinyl fabric. Securely fastened to a 36" or 24" length 3/4" diameter wood or polyethylene dowel. The free edge of the flag shall be weighted so the flag shall hang vertically, even in heavy winds. MUTCD Standard 6E.03 18" X 18" square, red-orange, vinyl fabric. Securely fastened to a 24" or 36" length 3/4" diameter dowel.

**Delineator reflectors:**

Center mount reflectors shall be 4" 0.063" aluminum or polycarbonate diamond shaped backing with slightly rounded corners, drilled in center and 1" below center for mounting. High intensity reflective sheeting face, available in: silver ASTM type 111; yellow and red ASTM type VIII or IX; blue or green ASTM type 111.

**Temporary overlay markers (TOMS):**

Reboundable pavement markers, 2" high X 4" wide X 1.125" base, with factory-applied adhesive pad. Shall be .060" thick reflective polyurethane. Markers shall be available as one-sided or two-sided, and in yellow or white.

**Plastic Barricades:**

All barricades available under this contract shall conform to requirements of the Manual of Uniform Traffic Control Devices (MUTCD). All barricades shall be crash-tested and NCHRP-350 accepted

Type I and Type II barricades shall use plastic A-frame legs that are interchangeable between the two types and shall accept interchangeable plastic rails of various lengths. Rails shall be 8" in height and available in 4', 6' and 8' lengths for 1" thick rails and 10' and 12' lengths for 2" thick rails.

Type III barricades shall use a galvanized steel frame with breakaway hardware and shall also accept the standard rails used for Type I and Type II barricades.

**LED barricade light:**

Portable and mountable, 7" minimum, bright lens intensity, 6-volt or D-cell, solid-state circuitry, with minimum 2500-hour battery life. Photocell for automatic on/off during day/night operations. Dual function steady-burn or flashing yellow light. Solid yellow case. Battery included.