

TIME

Procurement List

Wisconsin Department of Transportation

Traffic Incident Management Enhancement (TIME) Program



Final Award Summary

Updated
October 2020



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CONTRACT SUMMARIES

The purpose of the Traffic Incident Management Enhancement (TIME) Procurement List is to take advantage of WisDOT's ability to procure traffic control equipment at a quantity discount. The Department's incident response partners can thereby purchase these items at the quantity discount rate. The TIME Procurement List was developed to support the recommendations set forth in WisDOT's Emergency Traffic Control and Scene Management Guidelines.

TIME Procurement List Bid Award Contract

Contract Numbers: Refer MRO Contract NASPO ValuePoint # DASPS-2183-17

Two vendors were selected to provide the items on the TIME Procurement List:

- **Contract # 505ENT-M19-FACILITMRO-01 - Fastenal**
Fastenal's Wisconsin Contract Manager:
Laura Mayville lmayvill@fastenal.com or 414-731-8625
To find your servicing Fastenal store: fastenal.com > Find a Local Branch > Search by
Fastenal's government inside sales team: 833-790-9932 or govsales@fastenal.com
Click [Here](#) to access Wisconsin's contract #505ENT-M19-FACILITMRO-01 participation form.
- **Contract # 505ENT-M19-FACILITMRO-02 - Grainger**
Grainger's Wisconsin Government Account Manager:
Amy Rose-Offord amy.rose-offord@grainger.com or 608-577-0124
Grainger's Madison branch telephone number: 608-221-3861
Contact your Local Rep for pricing on items not found on WISbuy or Grainger.com. Please log into your grainger.com or WISBuy account for current pricing on Grainger SKU's. Note: Account must be affiliated with the WI State Contract to obtain pricing reflected in this document.

Agencies that would like to purchase items from the Procurement List should contact the appropriate vendor directly using the contact list above and the contract number. Also, several of the listed products can be purchased on WISBuy as well. For more information: wisbuy.wi.gov. If there is no price listed in the Procurement List or you obtain a price through the hyperlink to a catalog, please contact the vendor for the discounted state contract price.

Questions/Concerns

If you have any questions or have any trouble ordering items from the TIME Procurement List, please contact Marquis Young at 414-227-2157 or email marquis.young@dot.wi.gov.

1. TRAFFIC CONTROL

The following sections provide a description and current prices for the items available under the two contracts discussed above.

1.1 ARROW BOARDS

TEMPORARY ARROWBOARDS (ADVANCE WARNING BOARDS)

Solar panels are all aluminum and are mounted to a heavy-duty, welded steel construction open deck stable trailer. Amber lamps have an automatic intensity control to ensure maximum visibility. Signs come equipped with 4-D deep-cycle batteries (L-16 battery). Signs are equipped with an on-board 24-amp or 30-amp battery charger unless priced separately below. Standard models have 24 degree horizontal x 8 degree vertical angularity. Wide angle models have a 33 degree horizontal x 11 degree vertical angularity. Signs can come with 15 or 25 lights and both models are 48" x 96".

The arrow functions are:

- Right or Left arrow
- Both arrows simultaneously
- 4-corner flashing
- Sequential arrows or chevrons

Product	Temporary Arrow Boards	
	Fastenal	Grainger
	Manufacturer Name/Number	Manufacturer Name/Number
15 Bulbs (30" x 60") 12V system	Contact your local Fastenal representative for current pricing Laura Mayville 414-731-8625	Contact your local Grainger representative for current pricing Amy Rose-Offord 608-577-0124
Cost	TBD	TBD
15 Bulbs (48" x 96") 12V system	Contact your local Fastenal representative for current pricing	Contact your local Grainger representative for current pricing
Cost	TBD	TBD
15 Bulbs (30" x 60") solar	Contact your local Fastenal representative for current pricing	Contact your local Grainger representative for current pricing
Cost	TBD	TBD
15 Bulbs (48" x 96") solar	Contact your local Fastenal representative for current pricing	Contact your local Grainger representative for current pricing
Cost	TBD	TBD

VEHICLE-MOUNTED ARROW BOARDS

Vehicle-mounted arrow boards have a heavy gauge aluminum alloy panel with flat black enamel finish. Boards are available with 15 LED bulbs. The boards can run on a battery or 12 volt system and the control console circuitry is housed in a compact cabinet which mounts in the cab of the vehicle for easy operation. The applicable matching control panel, mounting brackets and assemblies for the bed rail rack mounting option are included in this bid price. Other mounting

options, which are available for an additional fee, include tailgate mount, manual tilt, power tilt, bed floor rack, and bulk head rack mounting.

All boards meet Federal Part VI of MUTCD requirements for arrow panels. Boards are visible for one mile and, at a minimum, 18 degrees horizontal angle and 8 degrees vertical angle. The bulbs are sealed beam type lamps with yellow lenses or amber bulbs behind clear lenses and are equipped with an upper hood that surrounds not less than 180 degrees of the lamp.

The arrow functions are:

- Tri-function
- Sequential
- Flashing

Signs are available in the following sizes:

- 24" x 48" (15 lights)
- 30" x 60" (15 lights)
- 36" x 72" (15 lights)
- 48" x 96" (15 lights)

The mode selections are:

- Both arrows simultaneously
- 4-corner flashing
- Sequential chevron
- Caution

	Vehicle-Mounted Arrow Boards	
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number
15 Bulbs (over the cab) 30" x 60" 12V system with bed rail mounting kit	Contact your local Fastenal representative for current pricing Laura Mayville 414-731-8625	Contact your local Grainger representative for current pricing Amy Rose-Offord 608-577-0124
Cost	TBD	TBD
15 Bulbs (over the cab) 48" x 96" 12V system with bed rail mounting kit	Contact your local Fastenal representative for current pricing	Contact your local Grainger representative for current pricing
Cost	TBD	TBD
15 Bulbs (over the cab) 30" x 60" Solar with bed rail mounting kit	Contact your local Fastenal representative for current pricing	Contact your local Grainger representative for current pricing
Cost	TBD	TBD
15 Bulbs (over the cab) 48" x 96" Solar with bed rail mounting kit	Contact your local Fastenal representative for current pricing	Contact your local Grainger representative for current pricing
Cost	TBD	TBD
15 Bulbs (sturdy skid mount) 30" x 60" 12V system with bed rail mounting kit	Contact your local Fastenal representative for current pricing	Contact your local Grainger representative for current pricing
Cost	TBD	TBD
15 Bulbs (sturdy skid mount) 30" x 60" Solar with bed rail mounting kit	Contact your local Fastenal representative for current pricing	Contact your local Grainger representative for current pricing
Cost	TBD	TBD

15 Bulbs (universal frame) 24" x 48" 12V system with bed rail mounting kit	Contact your local Fastenal representative for current pricing	Contact your local Grainger representative for current pricing
Cost	TBD	TBD
15 Bulbs (universal frame) 24" x 48" Solar with bed rail mounting kit	Contact your local Fastenal representative for current pricing	Contact your local Grainger representative for current pricing
Cost	TBD	TBD

VEHICLE-MOUNTED DIRECTIONAL WARNING LIGHT

LED Multi-sequenced Directional Warning Light – Amber. Used to advise approaching motorists that there is a safety concern ahead and can direct traffic to move to the left or right. The warning lights can be affixed to the rear deck or rear window on the interior of a vehicle.

Product	Vehicle-Mounted Directional Warning Light	
	Fastenal	Grainger
	Manufacturer Name/Number	Manufacturer Name/Number
32" Directional stick mounted on interior rear deck or rear window of vehicle	Contact your local Fastenal representative for current pricing Laura Mayville 414-731-8625	Contact your local Grainger representative for current pricing Amy Rose-Offord 608-577-0124
Cost	TBD	TBD
36" Directional stick mounted on interior rear deck or rear window of vehicle	Eastern Metal Signs & Safety: TA36LP-A	Contact your local Grainger representative for current pricing
Cost	\$498.45	TBD
42" Directional stick mounted on interior rear deck or rear window of vehicle	Eastern Metal Signs & Safety: TA42LP-A	Contact your local Grainger representative for current pricing
Cost	\$595.09	TBD

1.2 TRAFFIC CONES

All traffic cones meet the crashworthy requirements of NCHRP-350. All cones include high intensity grade reflective sheeting bands (which meet ASTM D4956 Spec Type III, Class 1) at 6" and 4" from the top of the cone as specified by the MUTCD. Cones are stackable. Cones have a mounting hole at the top for a light and/or sign.

- **28" and 36" Rigid Cones** - cones are made of low-density polyethylene material and have a minimum weight of 7 pounds.
- **28" Collapsible Cones** - cones are 28" when extended and 4" tall when collapsed. Collapsible traffic cones meet the crashworthy requirements of NCHRP-350.
 - Cones are approximately 4" tall when collapsed and 28" tall when expanded to the full height. The base is made of rubber, weighs 5 pounds and the dimensions are 12" by 12". The entire cone, including the base, is constructed of entirely water-resistant materials and comes in a carrying case.

Traffic Cones – Rigid and Collapsible		
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number
28" Rigid Cones	Eastern Metal Signs & Safety: 28PO64-TC2	53WN66
Cost	\$18.80	\$26.49
28" Collapsible Cones Set of 4	Cortina Safety Products: 03-501-02	20TP05
Cost	\$127.49	\$191.88
28" Collapsible Cones Set of 5	X	20TP06
Cost	X	\$244.09
36" Rigid Cones	Eastern Metal Signs & Safety: 36PO64-TC2	6FHA2
Cost	\$24.09	\$32.41

1.3 FLARES

EMERGENCY ROAD FLARES

Road flares conform to Underwriters Laboratory UL912 and DOT and ICC specifications. Flares are coated in protective wax and have a lifetime limited warranty. Burn time is approximately 30 minutes. Flares come with a stand or without a stand. **Prices are given per case of 36 flares.**

Please note: For this item the price is given per quantify ordered, so the price decreases as the number of cases ordered increases.

Road Flares		
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number
30 min. road flares - No stand-	Cortina: 95-07-31	45MG26
Cost	\$82.22	\$94.25
30 min. road flares -With stand-	Cortina: 95-07-32	8FXC0
Cost	\$130.90	\$105.60

LIGHT EMITTING DIODE (LED) FLARES

PowerFlare® LED FLARES

4 PowerFlare Soft Pack

4 PowerFlare Soft Pack, contains 4 PowerFlares, 1 Soft Bag-4, and 4 spare batteries



Cone Kit with 6 PowerFlare Soft Pack

Cone Kit with 6 PowerFlare Soft Pack, contains 6 PowerFlares, 1 Soft Bag-12, 6 Cone Top Adapters (CTA-001), 12 elastic cords for optional use with the CTA-001, and 6 spare batteries



Cone Kit with Rechargeable 6-Pack System

Cone Kit with Rechargeable 6-Pack System, contains 6 PowerFlares, 6-Pack charging case, 12-24V vehicle charging cable (CABL-001), and a 100-240V US-style wall charger (ACDC-001), 6 Cone Top Adapters (CTA-001), 1 Soft Bag-8 for CTAs, 12 elastic cords for optional use with the CTA-001



Cone Kit with Temporary Landing Zone Kit

Cone Kit with Temporary Landing Zone Kit, contains 5 PowerFlare, 1 PF210-W-O (PowerFlare, White LEDs, Orange Shell), 6 Spare CR123 Batteries, 6 Cone Top Adapters (CTA-001), 1 Soft Bag-12, and 12 elastic cords for optional use with the CTA-001



Product	PowerFlare LED Flares	
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number/Part Number
4 PowerFlare Soft Pack (Alkaline)	Contact your local Fastenal representative for current pricing Laura Mayville 414-731-8625	PowerFlare LED: 5NVJ3 Part # SP4O-R-Y *Also Available in Red LED
Cost	TBD	\$218.84
Cone Kit with 6 PowerFlare Soft Pack (Alkaline)	Contact your local Fastenal representative for current pricing	PowerFlare LED: 393P34 Part # CKT-SP6-R-Y *Also Available in Red LED
Cost	TBD	\$410.88
Cone Kit with 6-Pack System (Rechargeable)	Contact your local Fastenal representative for current pricing	PowerFlare LED: 393J12 Part # CKT-PF6P-210R-A-Y *Also Available in Red LED
Cost	TBD	\$622.05
Cone Kit with Temporary Landing Zone Kit (Alkaline)	Contact your local Fastenal representative for current pricing	PowerFlare LED: Sourcing Quote# 2045321999 Part # CKT-LZKIT
Cost	TBD	\$487.53

Pi-Lit® SEQUENTIAL LED ROAD FLARE

Intelligent radio technology automatically positions flares in correct sequence for quick and simple deployment. Any one flare controls entire network of flares. Changing a parameter such as pattern only requires the user to use one flare. That flare will send a message to the network of flares and will change their patterns as well. In addition, no need to turn off each flare. The user can do a "group off" from any flare and all the flares will turn off. 50+ foot range (15 meters) between flares (when on the ground), 1,000 feet (330 meters) when placed on top of a cone. No limit to the number of flares in a string. Rugged and compact, the flares can withstand the harsh environment of a roadway while stowing. 12 bright through-hole side LEDs, 4 bright surface mount top LEDs 1-mile visibility with 360-degree horizontal viewing angle and 180-degree vertical projection.

Alkaline System

- 6-flare set or 10-flare set
- 24-36 hours of continuous flash
- Battery status with push of button
- Quickly change batteries without the need for tools
- Tap any button to turn on flare
- 30,000 lbs crush strength
- Flare specification: Weight = .6 lbs, Dimensions: L = 4.25 in, W = 3.5 in, H = 1 in.
- 10 Set specification: Weight with flares = 8.5 lbs , Dimensions: L = 11.7 in, W = 9.2 in, H = 1.2 in
- Includes: Carrying case, Alkaline batteries installed for each flare



Rechargeable System

- 6-flare set or 10-flare set
- 20+ hours of continuous flash
- Charge all flares at once
- 6-hour recharge time from completely dead battery
- RDS™ (Rapid Deployment System): Automatically turns on flare when removed from case
- 30,000 lbs crush strength
- Flare specification: Weight = .5 lbs, Dimensions: L = 4.25 in, W = 3.5 in, H = 1 in.
- 10 Set specification: Weight with flares = 7 lbs , Dimensions: L = 11.7 in, W = 9.2 in, H = 1.2 in
- Includes: Carrying/Charging case, DC 12/24V car charger plug, AC wall charger
- Plug



LANDING ZONE KIT

Pi-Lit® LZ kit includes 5 radio-linked flares that contain both visible LEDs and infrared LEDs. The smart radio connectivity creates a “constellation” flash pattern where all the flare flash in synchrony. The ground crew can easily change to a steady glow pattern by simply using one flare or a remote control

Alkaline System

- 36 hours of continuous flash
- Carrying case, Ballasted range extenders, Alkaline batteries, Spare alkaline batteries.



Rechargeable System

- 20 hours of continuous flash
- RDS™ (Rapid Deployment System): Turns on flare when removed from case
- Carrying/Charging case, Ballasted range extenders, DC car charger plug, AC wall charger plug



Universal Cone Adapter Option

The universal cone adapter allows the flares to be mounted on-top of any standard cone. The flare magnetically attaches to the cone adapter as either a 360 degree or uni-directional warning light



Product	Pi-Lit Sequential LED Flare	
	Fastenal	Grainger
	Manufacturer Name/Number	Manufacturer Name/Number/Part Number
Pi-Lit ICSSOR-6 Sequential LED Flare (Alkaline)	Contact your local Fastenal representative for current pricing Laura Mayville 414-731-8625	Tapco: Sourcing Qt# 2045532314 Part # 145844
Cost	TBD	\$502.61
Pi-Lit ICSSOR-6RE Sequential LED Flare (Rechargeable)	Contact your local Fastenal representative for current pricing	Tapco: 493Y16
Cost	TBD	\$660.15
Pi-Lit ICSSOR-10 Sequential LED Flare (Alkaline)	Contact your local Fastenal representative for current pricing	Tapco: Sourcing Qt# 2045532314 Part # 145843
Cost	TBD	\$850.00
Pi-Lit ICSSOR-10RE Sequential LED Flare (Rechargeable)	Contact your local Fastenal representative for current pricing	Tapco: 493Y20
Cost	TBD	\$938.25
Pi-Lit Landing Zone Kit (Alkaline)	Contact your local Fastenal representative for current pricing	Tapco: Sourcing Qt# 2045532314 Part # 145842
Cost	TBD	\$680.96
Pi-Lit Landing Zone Kit (Rechargeable)	Contact your local Fastenal representative for current pricing	Tapco: Sourcing Qt# 2045532314 Part # 145841
Cost	TBD	\$825.24
Universal Cone Adapter Option (ICS-UCA)	Contact your local Fastenal representative for current pricing	Tapco: Sourcing Qt# 2045532314 Part # 142431
Cost	TBD	\$25.00

2. PERSONAL SAFETY PRODUCTS

2.1 FLASHLIGHTS AND FLASHLIGHT WAND

There are a large number of manufacturers and types of flashlights and wands available. Please review the various products via the vendors' hyperlinks.

	Flashlights and Flashlight Wands	
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number
Flashlights and Flashlight Wands	Flashlights & Accessories	Flashlights Flashlight Wands
Cost	TBD	TBD

2.2 REFLECTIVE VESTS

There are a large number of manufacturers and types of reflective vests available. Both type R (roadway) and type P (police). Please review the various products via the vendors' hyperlinks.

	Reflective Vests	
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number
Reflective Vests	Reflective Vests	Reflective Vests
Cost	TBD	TBD

2.3 PANTS

There are a large number of manufacturers and types of reflective pants available. Please review the various products via the vendors' hyperlinks.

	Pants	
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number
Pants	Reflective Pants	Reflective Pants
Cost	TBD	TBD

2.4 REFLECTIVE JACKETS

There are a large number of manufacturers and types of reflective jackets. Please review the various products via the vendors' hyperlinks.

	Reflective Jackets	
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number
Reflective Jackets	Reflective Jackets	Reflective Jackets
Cost	TBD	TBD

3. TRAFFIC SIGNS

3.1 ROLLUP SIGNS AND STANDS

Rollup signs are convenient for incident management personnel to store in their vehicles for easy access when incidents occur. Signs are available in **36"** or **48"** sizes.

The signs meet MUTCD standards and MASH compatibility crash test requirements. Signs can withstand winds up to 65 mph. The frame is made of aluminum and steel construction with a wind relieving system. Legs are fold-up and have anti-skid foot pads and four corner pockets. The minimum height from the ground is 12".

Signs are available in **fluorescent coral (pink)** with black text, changeable text, or graphic messages.

Corner pocket options are:

- **Delta Pocket:** ¾" deep, easiest to deploy, tough Lexan plastic, narrow width (rolls up smaller), and has 3 rivets for better holding power
- **Full Pocket:** Full depth, tough Lexan plastic
- **Half Pocket:** 1" depth, easier to deploy, tough Lexan plastic

Reflectivity options are:

- **High Intensity Grade** (Meets ASTM D4956 Spec Type III, Class 1)
- **High Intensity Grade Prismatic** (Meets both ASTM D4956 Type III and Type IV specifications)
- **Diamond Grade** (Exceeds ASTM D4956 Spec Type IX Standards)
- **Diamond Grade Fluorescent**

Fluorescent Coral (Pink) Roll Up Signs

The following prices apply for all 3 of the corner pocket options and for all four of the reflectivity options. ***This price is for the sign only and does not include the stand. Stands and storage bags must be purchased separately.***

Fluorescent Coral (Pink) Roll Up Signs		
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number/Part Number
Black text – "Emergency Scene Ahead" 36" Sign	Eastern Metal Signs & Safety: 36SBC-4LEX-ESA	Eastern Metal Signs & Safety: 66CD08 Part # 669-C/36-SBFP-ES
Cost	\$75.13	\$84.41
Black text – "Be Prepared to Stop" 36" Sign	Eastern Metal Signs & Safety: 36SBC-4LEX-BPTS	Eastern Metal Signs & Safety: 23Y763
Cost	\$75.13	\$90.68

Changeable Text -Velcro Overlays- "Be Prepared to Stop," "Merge Right," and "Merge Left" 36" Sign	Eastern Metal Signs & Safety: 36SBC-4LEX-OL(7)- BPTSMRML	Eastern Metal Signs & Safety: Sourcing Qt# 2045459881
Cost	\$234.33	\$231.43
Graphic Message (Directional Arrow) 36" Sign	Eastern Metal Signs & Safety: 36SBC-4LEX-ARROW	Eastern Metal Signs & Safety: Sourcing Qt# 2045459881
Cost	\$72.71	\$72.57
Black text – "Emergency Scene Ahead" 48" Sign	Eastern Metal Signs & Safety: 48SBC-4LEX-ESA	Eastern Metal Signs & Safety: 23Y982
Cost	\$109.43	\$192.45
Black text – "Be Prepared to Stop" 48" Sign	Eastern Metal Signs & Safety: 48SBC-4LEX-BPTS	Eastern Metal Signs & Safety: 23Y769 Eastern Metal Signs & Safety: 23Y978
Cost	\$113.07	\$238.37 (23Y769) \$188.31 (23Y978)
Changeable Text -Velcro Overlays- "Be Prepared to Stop," "Merge Right," and "Merge Left" 48" Sign	Eastern Metal Signs & Safety: 48SBC-4LEX-OL(7)- BPTSMRML	Eastern Metal Signs & Safety: Sourcing Qt# 2045459881
Cost	\$309.99	\$305.87
Graphic Message (Directional Arrow) 48" Sign	Eastern Metal Signs & Safety: 48SBC-4LEX-ARROW	Eastern Metal Signs & Safety: Sourcing Qt# 2045459881
Cost	\$109.43	\$108.72

Roll Up Stand and Storage Bags

Product	Roll Up Stand and Storage Bags	
	Fastenal Manufacturer Name/Number	Grainger Manufacturer Name/Number/Part Number
Stand for 36" Sign	Eastern Metal Signs & Safety: C-301-S-KLSH	9AEE6
Cost	\$137.99	\$203.55
Stand for 48" Sign	Eastern Metal Signs & Safety: C-301-L-KLSH	9AEE6
Cost	\$142.56	\$203.55
Storage bag for 36" Sign	Eastern Metal Signs & Safety: C-36-HDHO	Eastern Metal Signs & Safety: Sourcing Qt# 2045321999 Part # SC-36-HD
Cost	\$14.88	\$25.00

Storage bag for 48" Sign	Eastern Metal Signs & Safety: C-48-HDHO	Eastern Metal Signs & Safety: Sourcing Qt# 2045321999 Part # SC-36-HD
Cost	\$16.50	\$25.00

3.2 SLOW/STOP PADDLES

Slow/Stop paddles are MUTCD compliant, octagonal, made of aluminum and are printed with letters a minimum of 6" high. STOP has a red background with white letters and border. SLOW has an orange background with black letters and border.

Paddles are available in High Intensity Grade (Meets ASTM D4956 Spec Type III, Class 1), High Intensity Grade Prismatic (Meets both ASTM D4956 Type III and Type IV specifications), Diamond Grade (Exceeds ASTM D4956 Spec Type IX standards) and Diamond Grade Fluorescent.

Paddles come in two sizes as follows:

- 12" paddle with a 10" wood dowel.
- 18" paddle with a 10" wood dowel.

Paddles shall come with a pre-attached handle. An additional plastic handle, either 60" or 72" in length are available.

Product	Slow/Stop Paddles	
	Fastenal	Grainger
12" Sign w/ 10" dowel High intensity/prismatic grade	Eastern Metal Signs & Safety: SS-1212-HI	Eastern Metal Signs & Safety: Sourcing Qt# 2045459881
Cost	\$53.07	\$52.28
12" Sign w/ 10" dowel High intensity or diamond grade	Eastern Metal Signs & Safety: SS-1212-DG	Eastern Metal Signs & Safety: Sourcing Qt# 2045459881
Cost	\$85.59	\$83.72
18" Sign w/ 10" dowel High intensity/prismatic grade	Eastern Metal Signs & Safety: SS-1812-HI	6FGK2
Cost	\$50.12	\$61.40
18" Sign w/ 10" dowel High intensity or diamond grade	Eastern Metal Signs & Safety: SS-1812-DG	Eastern Metal Signs & Safety: Sourcing Qt# 2045459881
Cost	\$73.41	\$72.27
60" Plastic handle for 10" dowel sign	Eastern Metal Signs & Safety: SS-60PVCH	Eastern Metal Signs & Safety: Sourcing Qt# 2045459881
Cost	\$16.50	\$16.93
72" Plastic handle for 10" dowel sign	Eastern Metal Signs & Safety: SS-72PVCH	Eastern Metal Signs & Safety: Sourcing Qt# 2045459881
Cost	20.37	\$21.00

4. OTHER

4.1 AIR HORNS

An air horn is a pneumatic device designed to create an extremely loud noise for signaling purposes. When performing flagging and other traffic control operations, it would be beneficial to have all flaggers in possession of an air horn in order to warn **all** responders at an incident scene if an unexpected dangerous situation suddenly arises.

There are a large number of manufacturers and types of air horns. Please review the various products via the vendors' hyperlinks.

	Air Horns	
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number
Air Horns	Air Horns	Air Horns
Cost	TBD	TBD

4.2 BATTERIES

There are a large number of manufacturers and types of batteries. Please review the various products via the vendors' hyperlinks.

	Batteries	
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number
Batteries	Fastenal Batteries	Disposable Batteries Rechargeable Batteries
Cost	TBD	TBD

4.3 VEHICLE BEACON LIGHTS

Manufacturer of beacon lights including heavy duty LED beacons with five user-selectable flash patterns. Features include aluminum heat-sink, replaceable, color lens, increase visibility and reduce current draw. Specifications include operating voltage 12/24 V, 2 amps rated current, dia. 6.5 in. & height 5.5 in. Colors that are available for both LED and the Rotating beacons are amber, blue, clear, red and green.

There are a large number of manufacturers and types of vehicle beacon lights. Please review the various products via the vendors' hyperlinks.

	Vehicle Beacon Lights	
	Fastenal	Grainger
Product	Manufacturer Name/Number	Manufacturer Name/Number
Vehicle Beacon Lights	Vehicle Beacon Lights	Vehicle Beacon Lights
Cost	TBD	TBD