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## Safety Service Patrol Idea Sharing Network – Session VII: SSP Vehicle Types and Selection



# Custom Response Vehicle (CRV) – 9 (14%)

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# Custom Response Vehicle (CRV)

- Chain saw
- Metal chop saw
  - Diamond Blade
- Backpack blower
- 50 – 28 inch cones
- Light Towers
- Message Board
- Additional absorbent
  - Fiber Pearl
  - Clay (Kitty litter)



# Heavy Duty Utility – 12 (19%)



# Heavy Duty Utility

- Chain saw
- Metal chop saw  
(Supervisors Only)
  - Diamond Blade
- Backpack blower
- 30 – 28 inch cones
- Spare tire
- Additional absorbent
  - Fiber Pearl
  - Clay (Kitty litter)



# Tow Truck – 42 (67%)



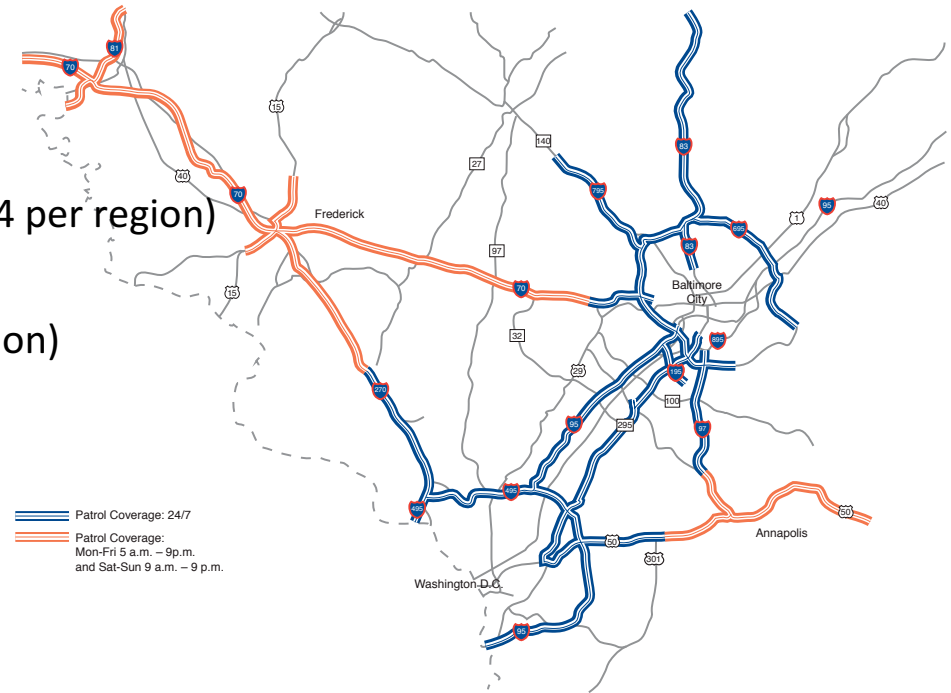
# Tow Trucks

- **Wheel Lift**
  - Capacity extended, 4,000 lbs.
- **Boom**
  - Capacity retracted, 16,000 lbs.
- **Winches**
  - Dual
  - Worm Drive
  - Capacity, 8,000 lbs. each
  - 100 feet of cable per winch
- **Limited internal storage**
- **20–28 inch cones**



# Breakdown by Region and Job Function

- **Baltimore, Western, NCR**
  - 1 Manager + 3 Supervisors
    - Each with a Heavy Duty Utility (4 per region)
  - 3 Shifts per region
    - Each shift with a CRV (3 per region)
  - NCR & Baltimore (24/7)
    - 17 tow trucks per region
  - Western
    - 8 tow trucks
- **Take Home Privileges**
  - For Call Outs and Extra Assignments





# Approved and Equipped Emergency Vehicles

- Registered Emergency Vehicle
- Approval by Motor Vehicle Administration (MVA)
- Equipment
  - Emergency lights (Red)
  - High and Low Frequency Sirens
- Benefits and Restrictions
  - “Move Over” Law inclusion
  - Limited Use Internal Policy



**MVA** Motor Vehicle Administration  
2001 International Ave  
Baltimore, MD 21286

VR-026 (06-11)

**Application for Approval of Emergency Vehicles or Service Vehicles**

Please print clearly and present firmly using a ball point pen or typewriter. Do not separate copies. Return forms to the MVA.

Date of Application: August 11, 2016 Page: 2 of 2 pages

(For use by MVA inspectors only)  
 Are you currently licensed in the State of Maryland?  
 Do you currently hold a Commercial Driver's License (CDL)?

Service/Vehicle Classification: Are you requesting a non-emergency vehicle?  
 Yes  No

Present: Date of Contact: \_\_\_\_\_ Date: \_\_\_\_\_  
 MVA location: \_\_\_\_\_

Year	Make	Body Type	Vehicle Identification Number	Tag Number	Type of Operation
2017	FORD	Fusion	3FA6P0G76HR144114	021295G	Traffic Safety Emergency Response
2017	FORD	Fusion	3FA6P0G76HR144111	021315G	Traffic Safety Accident Response
2016	FORD	Focus	1FD0X4H78GEB35183	018585G	Accident Response Road Safety
2016	FORD	Focus	1FD0X4H78GEB35184	018355G	Accident Response

APPROVED  
 AUTHORIZED EMERGENCY VEHICLES

APPROVED  
 AUTHORIZED EMERGENCY VEHICLES

Leased Vehicles: Submit a copy of your Lease Agreement.  
 Insurance Requirements: All leased vehicles registered in Maryland must be insured for the minimum amounts required by law. If the vehicle is to be used as a business, the minimum liability coverage must be \$1,000,000. The owner must also carry property damage coverage. The required coverage must be included in a policy authorized to write in the policies in this block.  
 Insurance Certification: Name of Insurer: SELF-INSURED Policy Number: N/A Agent/Address: \_\_\_\_\_  
 Warning: Leased emergency vehicles shall be listed in contractor bills and a 40-hour section of the Maryland Temporary Rental Act.  
 Please print the following information: 1-16, 22-201, 22-210, 22-216, 22-217, 22-218, 22-219, 22-220, 22-221, 22-222, 22-223, 22-224, 22-225, 22-226, 22-227, 22-228, 22-229, 22-230, 22-231, 22-232, 22-233, 22-234, 22-235, 22-236, 22-237, 22-238, 22-239, 22-240, 22-241, 22-242, 22-243, 22-244, 22-245, 22-246, 22-247, 22-248, 22-249, 22-250, 22-251, 22-252, 22-253, 22-254, 22-255, 22-256, 22-257, 22-258, 22-259, 22-260, 22-261, 22-262, 22-263, 22-264, 22-265, 22-266, 22-267, 22-268, 22-269, 22-270, 22-271, 22-272, 22-273, 22-274, 22-275, 22-276, 22-277, 22-278, 22-279, 22-280, 22-281, 22-282, 22-283, 22-284, 22-285, 22-286, 22-287, 22-288, 22-289, 22-290, 22-291, 22-292, 22-293, 22-294, 22-295, 22-296, 22-297, 22-298, 22-299, 22-300, 22-301, 22-302, 22-303, 22-304, 22-305, 22-306, 22-307, 22-308, 22-309, 22-310, 22-311, 22-312, 22-313, 22-314, 22-315, 22-316, 22-317, 22-318, 22-319, 22-320, 22-321, 22-322, 22-323, 22-324, 22-325, 22-326, 22-327, 22-328, 22-329, 22-330, 22-331, 22-332, 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# Vehicle Equipment

- All LED emergency and cabinet lighting
- “Emergency Scene Ahead” sign (MUTCD standard)
- Arrow panel (message panel on CRVs)
- Scene lighting (GoLight and/or towers)
- Fire Extinguisher
- First Aid Kit
- Fuel containers
- Funnels (Capless Fuel Fillers)
- Jump Box
- Jumper cables (port front and rear)
- Air Compressor and hose
- 2 ton floor jack
- Rechargeable impact gun
- 4-way lug wrench (SAE & Metric)
- Breaker bar
- Chain, J-hooks



# Additional Equipment and Tools

- Sequential LED Flares
- Ignitable emergency flares
- Personal Protection Equipment
  - Helmets
  - Safety glasses – goggles
  - Gloves
  - Rechargeable flashlight
- Scene Cleanup (shovels, digging bar, brooms, trash bags, etc.)
- Screwdrivers
- Various socket sets
- Pliers
- Wrenches
- Hammer, dead blow, mallet
- Absorbent



# Communications Equipment

- **Panasonic Toughbook Laptop**
  - CapWin
  - eMail, detour resources
- **Low Band Police Radio**
- **700 Mhz mobile radio and portable**
  - Maryland First radio system with interoperability with other emergency services networks.
  - VHF, UHF and 800MHz compatible
- **Scanner**
  - Automatically receives channels within predetermined radius)



# Video Equipment

- **Mobile Camera System**
  - Remote controlled by TMC
  - Full Pan, Tilt and Zoom functions
  - GPS/AVL tracking for response determination
  - Use cellular data plan through an Access Point Name (APN)
  - Video with limited delay (7 sec. avg.) to any device, i.e. computer, tablet, cell phone



# Scene Safety

- Flares
- LED Flares
- Cones
- Advance Warning Sign



# Latest Improvements



# Latest Improvements

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- High visibility fire truck lime yellow paint scheme
- Daytime running lights
- Relocation of red emergency lighting to cone holders
- “Pulsar” LED arrow panel – Trafcon MB-3 PAR 46 bulbs





# Funding

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- Historical performance data cataloged and analyzed by University of Maryland, School of Engineering
- Determines cost to benefit ratio annually
- Current ratio is 32:1
- Reported annually for 80% federal reimbursement
- Originally, funding came from Congestion Mitigation and Air Quality (CMAQ) funds
- Majority comes from Surface Transportation Program (STP) funds
- Patrol trucks incur 2.4 million total patrol miles in 2016 or approx. 40,000 miles per truck each year
- Replacement schedule is 4 to 5 years



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Chief, Field Operations Division  
Maryland State Highway Administration  
Office of CHART & ITS Development  
[syinger@sha.state.md.us](mailto:syinger@sha.state.md.us)  
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