



Vehicle Barrier Proposal



- Sgt. José Quintanilla
- EOPS-Operational Planning Unit



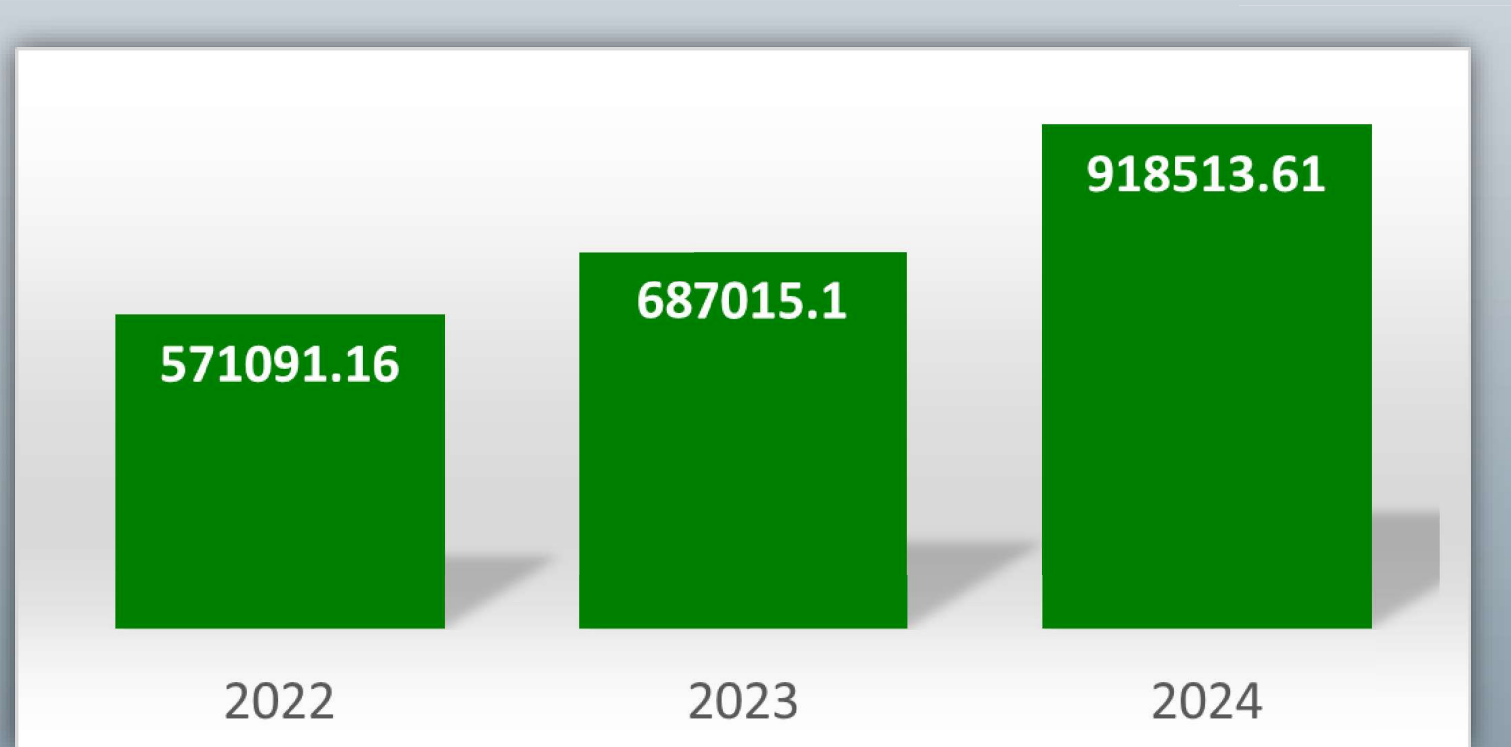
Objectives

- HVB Costs: 2022 to 2024
- COV: Freightliner
- Granville Entertainment District vs. Nashville
- Meridian Rapid Defense Group
- Meridian vs. Current Methods
- Price per Trailer and Granville St. Pilot Project
- Mifram Security
- ATG Access
- Analysis and Recommendation
- Conclusion



HVB Costs: 2022-2024 3yr total \$2.2m

Event	Cost (\$)
Chinatown New Year Parade X 8 HVBs	42,000
Car Free Days X 6 HVBs	55,000/day
Vaisakhi X 12 HVBs	51,000
BMO Marathon X 4 HVBs	31,000
Italian Day X 4 HVBs	50,000
Greek Day X 4 HVBs	33,000
Canada Day X 3 HVBs	25,000
Pride X 4 HVBs	33,000
Celebration of Lights (COL) X 12 HVBs	155,000/night



COV:
Freightliner



CHASSIS SPECS

UNIT INFORMATION

VIN: 1FVHG3CY7DHB00241
Dash: 49,540 Miles
ECM: 49,519 Miles
6x4 Tandem
Air Brakes
200 Inch Wheelbase
135 Inch Cab To Trunnion
185 Inch Cab To End
Of Frame
Double Frame
Pintle Hitch
-Air & Electric
Connections

CAB FEATURES

Standard Daycab
Air Ride Suspension
Aerodynamic Mirrors
Air & City Horns
F/G Sun Visor

INTERIOR FEATURES

Mid-Level Interior
A/C Equipped
Power Windows
Power Door Locks
High Back Air Ride
Driver Seat
High Back Fixed
Passenger Seat
Cruise Control
Tilt/Telescopic
Steering Column
AM/FM/CD

GVWR

66,000 LBS.

FRONT AXLE

20,000 LB. FAWR

REAR AXLES

46,000 LB. RAWR

4.33 Ratio

Diff. Lock

Interaxle Lock

REAR SUSPENSION

TufTrac

ENGINE

Cummins ISL, 380 HP
S/N: 73362317
Dash & ECM: 4987 Hours
Engine Brake
Block Heater
RH Vertical Exhaust

TRANSMISSION

Fuller FR0-13210C
10 Speed Manual

TIRES/WHEELS

Front Tire: 425/65R22.5
Front Wheel: Aluminum
Rear Tire: 11R22.5
Rear Wheel: Aluminum

FUEL TANK(S)

LH 70 Gallon Aluminum

EQUIPMENT SPECS

2014 0x 16 FT. 15-16YD
S/N: S142706252251AL
Elliptical Dump Body
16 Ft. Length
48 Inch Sides
15-16 Yard Capacity
High Lift Tailgate
Air Lock
Electric Tarp
Dump Apron
24 Inch Cab Guard

2013 Freightliner 114SD 6x4 Ox Bodies Dump Truck



PRICE: Call For Price
STOCK#: RA214338
EX WORKS: Kansas City, MO

QUOTE NUMBER: PO1.18-C_20

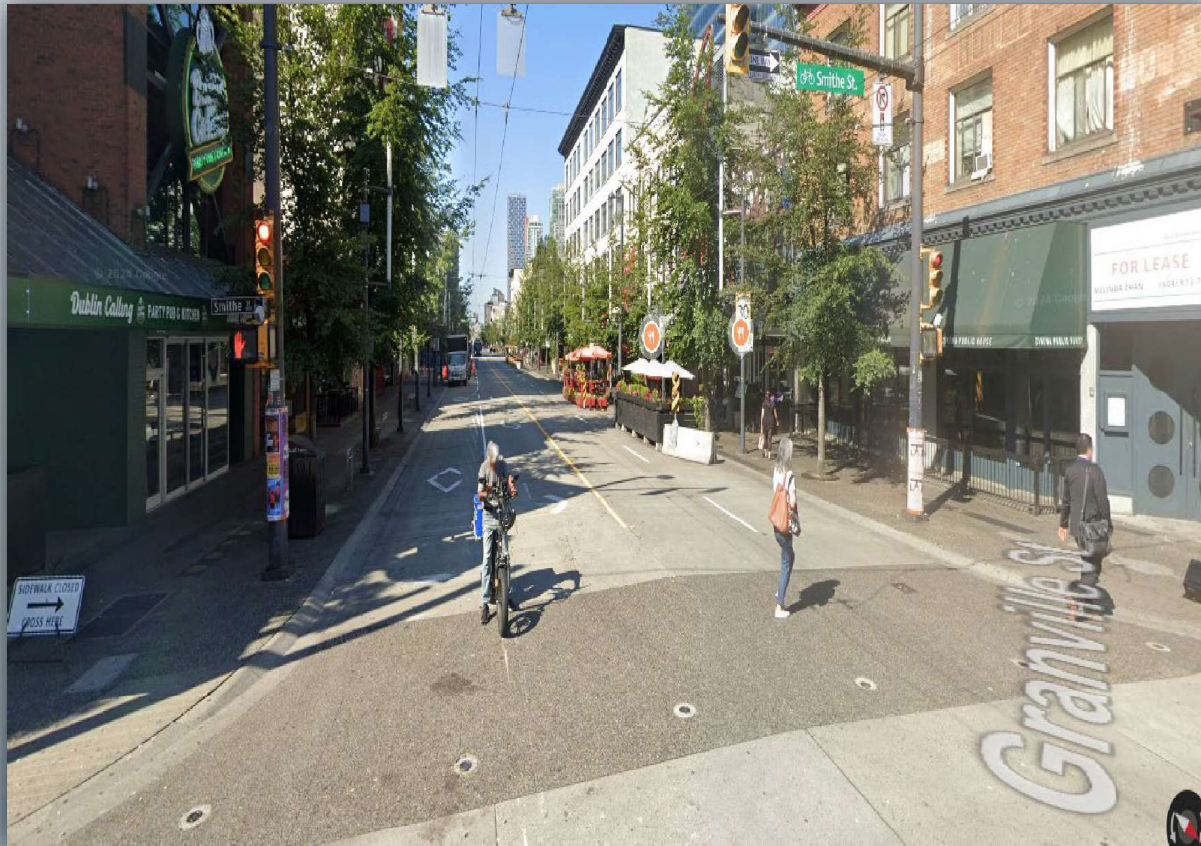
EXPIRATION DATE:

888-684-8146 | www.customtruck.com

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DISCLAIMER: Specifications are believed to be correct, but may contain errors and/or omissions.
Pictures are representative and may not be identical.

COV High Traffic Points (GED) vs. Nashville Entertainment District



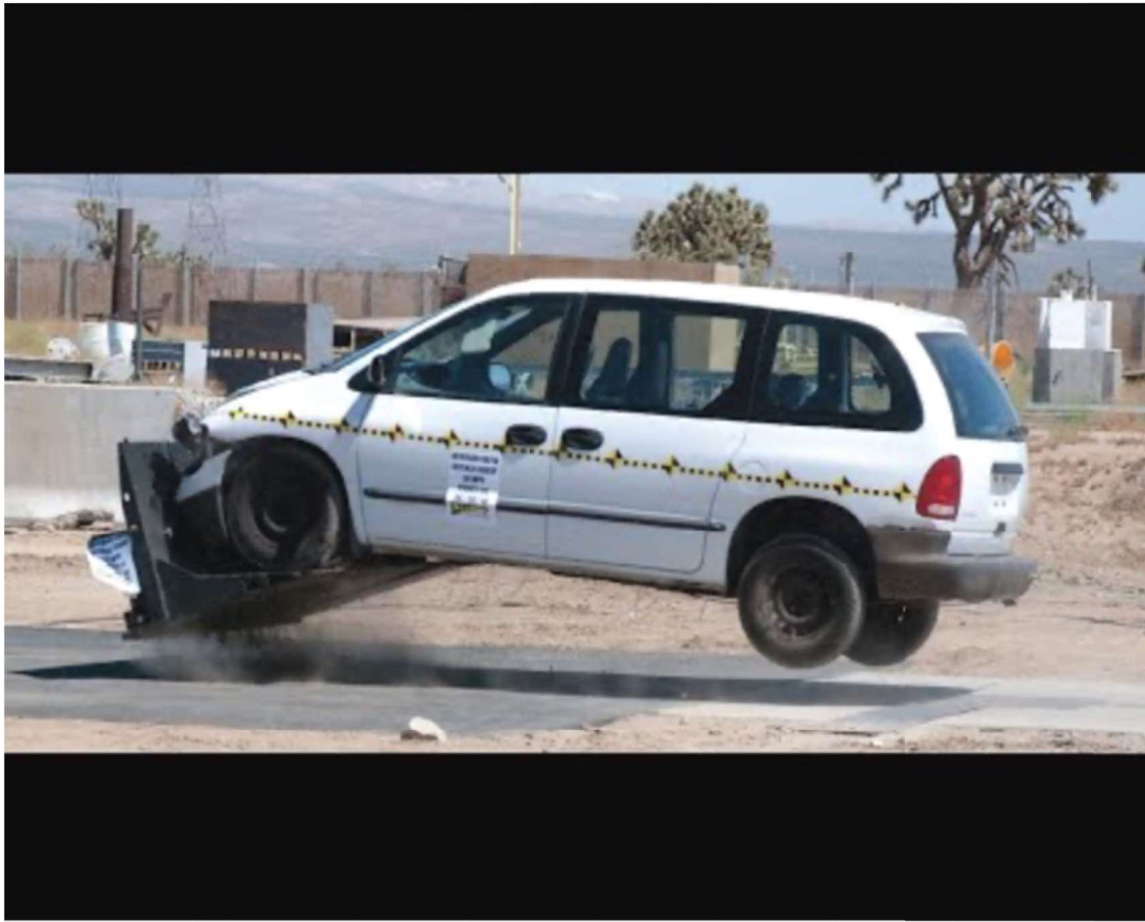
COV high traffic points Ex. Granville
Entertainment Districts, 100 blk Robson
party zone, Robson/VAG plaza



Nashville entertainment district



Meridian vs Current Methods



Median



COV



Meridian Rapid Defense Group

ARCHER TRAILER KIT 1000

Part-No.
MRDG-TRLKIT1000

Archer Trailer Kit 1000



- 8 - Archer 1200 Barriers
- 1 - Archer Hauler 2.0
- 2 - Archer Field Tow Bars
- 7 - 4ft. Archer Arrestor Cables
- 1 - Archer Rapid Gate Kit
- 1 - Archer Wayfinding Package
- 7 - ADA 3 Channel Cable Covers
- 1 - Archer Hauler Mount
- 2 - ADA Cover Compartments
- 1 - Beam Gate Beam Cradles

Meridian Archer Trailer Kit 1000 Components

8 - Archer 1200 Barrier



1 - Archer Hauler 2.0



2 - Archer Field Tow Bar



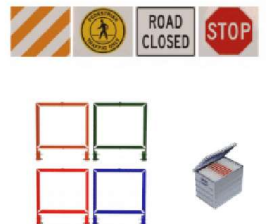
7 - Archer Arrestor Cables



1 - Archer Rapid Gate Kit



1 - Wayfinding Package Kit



7 - ADA 3-Channel Cable Cover



1 - Archer Hauler Mount



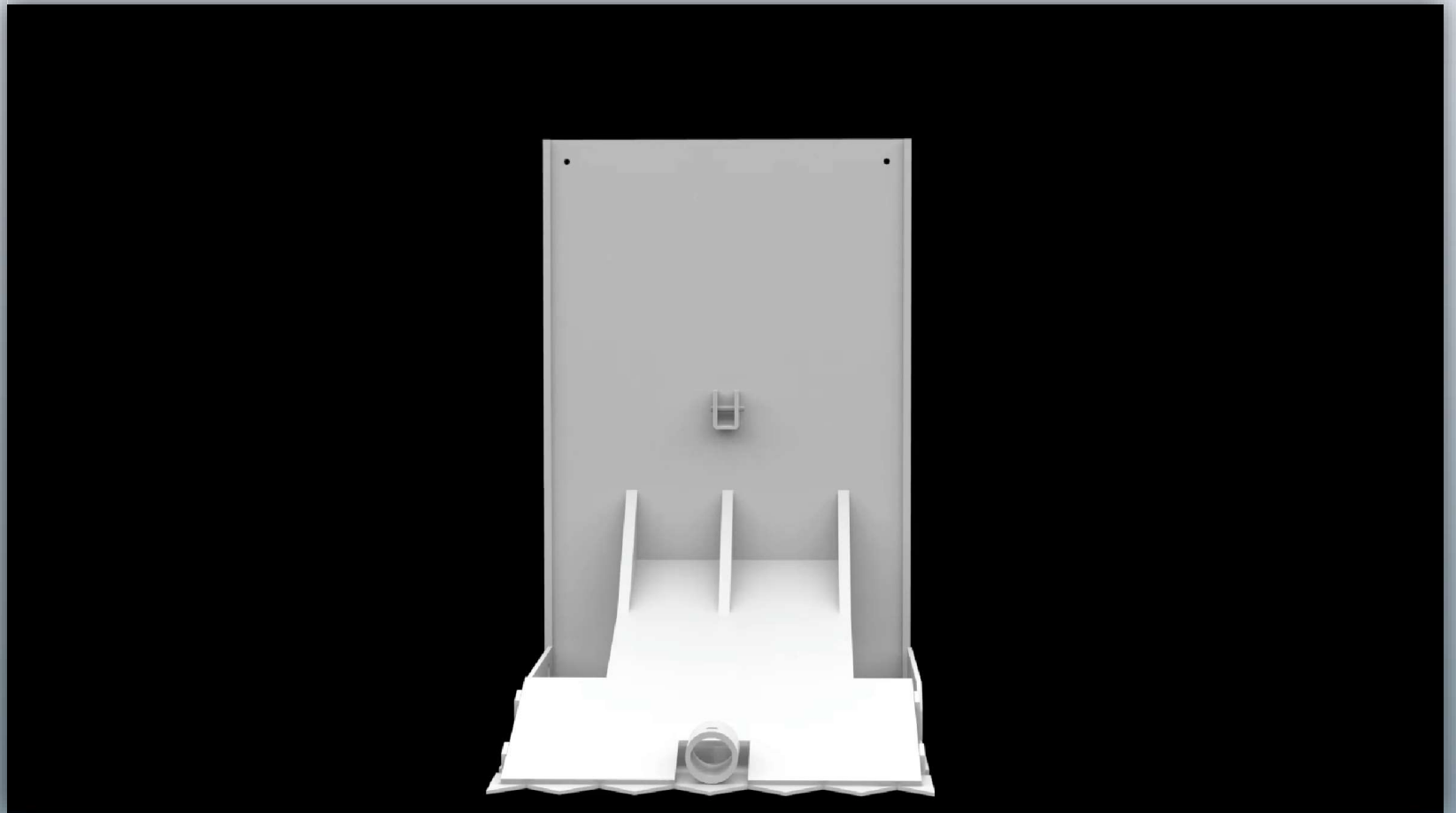
2 - ADA Cover Compartments



1 - Beam Gate Beam Cradle



Eight Per String



MERIDIAN[®]
RAPID DEFENSE GROUP



Cost

- Per Trailer (8)

\$200,000

- Granville St – 2 Strings

\$400,000

- COL – replace 12 HVB's

\$2.4m

ARCHER 1200 BARRIER

Part-No.
AB1200

Archer 1200 Barrier

1

- Modular barrier
- Expandable footprint
- Compatible with all Meridian products

2

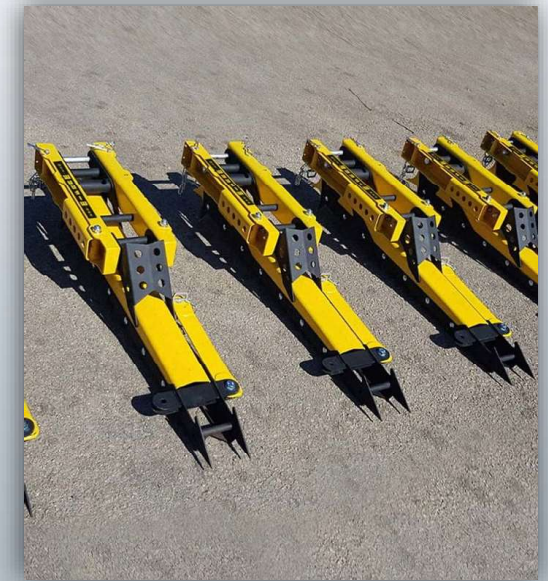
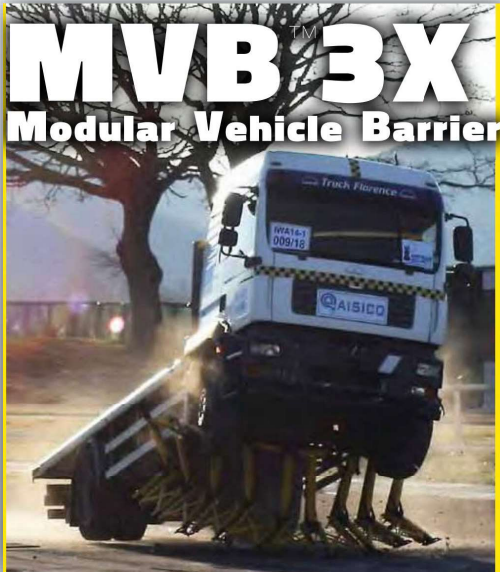
- Over **20** certified configurations
- The most crash tested mobile vehicle barrier in the world
- Reusable after impact

3

- No hydraulics
- No electricity
- No forklifts
- One person deployment
- Maintenance free

- Length – 48 in.
- Width – 24 in.
- Height – 35 in.
- Weight – 680





Vendor #2 Mifram Security

- Metalwork and civil engineering company based in Israel with a supplier in Stouffville Ontario Canada
- **MVB 3X MVB:**
Attached 4-foot unit/on Castors for mobility in set up.
- 50lb each
- Can be swung aside for emergency evacuation or emergency vehicle access
- Stores compactly in wooden or metal storage boxes



Meridian Rapid Defense Group



Length: 3.87 ft.
Width: 1.67 ft.
Height: 2.7 ft.
Weight: 52.9 lbs.

Quantity	Description	Unit Price	Amount (\$)
16	MVB3X Mifram Barrier	2,846.87	\$45,549.92
1	Wooden Storage Box	1,800.00	\$1,800.00
Total			\$47,349.92



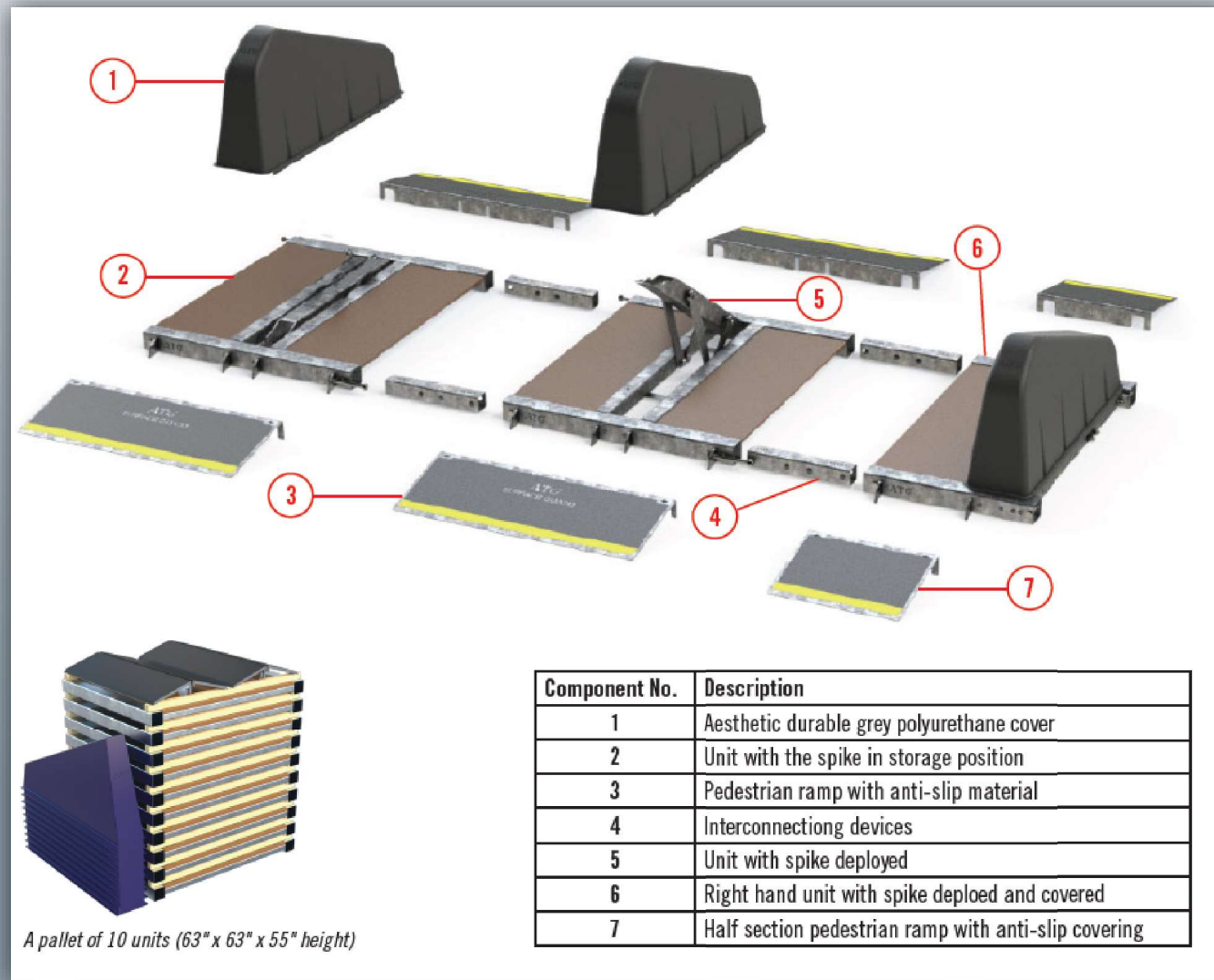


Vendor #3 ATG Access

- Based in UK
- **Surface Guard MVB:** Installation, assembly and removal of units requires a three person team to safely complete.
- Seven individual components
- \$140,000 for 50 feet of roadway



ATG Access: Surface Guard Assembly



Recommendation

- Four tier
 - Enhanced permanent barriers in dedicated entertainment zones
 - Purchase of s. 17 Mifram MVB barriers to support LVB's s. 17
 - Purchase of s. 17 trailers of Archer barriers s. 17
 - Keep existing HVB practices intact
- Mifram and Meridian can be deployed for both static short or long-term deployments.
- Mifram and Meridian have ease of emergency vehicle access.
- Mifram purchased/operated by VPD
- Meridian trailers to be City led- purchase, storage, maintenance, deployment
- Meridian is more labor intensive re: Transportation, installation, deployment and dismantling.
- Meridian barriers have a lifetime warranty on their barriers and reusable after impact.



Conclusion



- **Vision:** VPD's vision of the Strategic Plan is to be the safest major city in Canada.
- **Goal:** An enhanced public safety measure is needed at all small to large gatherings to supplement COV deployment strategies.
- **Problem Identified:** No other police department in Canada is deploying Meridian Mobile Barriers (MVBs) to enhance public safety at large gatherings.
- **Solution:** Procurement of Meridian MVB solutions to be strategically deployed for COV events on a short-term and long-term basis to improve public safety.
- **Implementation:** Pilot program of Meridian MVBs for Granville Entertainment District (GED) long-term transition to COL and bigger events held in Vancouver.

