

# **TOWN OF MEDFIELD MEETING NOTICE**

Posted in accordance with the provisions of M.G.L. c. 30A, §§18-25

This meeting will be held remotely on Zoom. Members of the public who wish to view, listen to, or participate via Zoom may do so by joining by one of the following options:

1. To join online, use this link:

<https://medfield-net.zoom.us/j/82252613414?pwd=WDBxNXZmQUE1a3N3aFQwOlpFeGhEdz09>

- a. Webinar ID: 822 5261 3414
- b. Password: 851405

2. Or One tap mobile :

16469313860,,82252613414#,,,\*851405# US  
19294362866,,82252613414#,,,\*851405# US (New York)

3. Or Telephone:

Dial(for higher quality, dial a number based on your current location):  
+1 646 931 3860 US, +1 929 436 2866 US (New York), +1 301 715 8592 US  
(Washington DC), +1 305 224 1968 US, +1 309 205 3325 US, +1 312 626 6799 US  
(Chicago), +1 669 444 9171 US, +1 669 900 6833 US (San Jose), +1 689 278 1000 US,  
+1 719 359 4580 US, +1 253 205 0468 US, +1 253 215 8782 US (Tacoma), +1 346 248  
7799 US (Houston), +1 360 209 5623 US, +1 386 347 5053 US, +1 507 473 4847 US, +1  
564 217 2000 US

- a. Enter the Webinar ID: 822 5261 3414
- b. Enter the password: 851405

## **Capital Budget Committee**

### **Board or Committee**

<b>PLACE OF MEETING</b>	<b>DAY, DATE, AND TIME</b>
Remote Meeting on Zoom	Friday, October 6, 2023 at 9:30 am

## **Agenda (Subject to Change)**

### **Call to Order**

1. Approval of Meeting Minutes
  - a. September 15, 2023
2. Departmental Capital Requests
  - a. Department of Public Works

3. Informational Items

4. Adjourn

**Capital Budget Committee Meeting Minutes**  
**September 15, 2023**

<b>Capital Budget Committee Members</b>	Present: <b>Michael Marcucci, Kristine Trierweiler, Andrew Foster, Michael LaFrancesca, Megan Sullivan, Robert Aigler, Brent Nelson</b>	
<b>Guests</b>	Frank Gervasio, Christine McCue Potts, Chief Guerette (Medfield Police Department), Chief William Carrico (Medfield Fire Department), Katie Walper (Director, Medfield Parks and Recreation Department), and Mel Seibolt (Commissioner, Medfield Parks and Recreation Commission)	
<b>Meeting Location</b>	Held remotely on Zoom	
<b>Meeting Times</b>	Meeting convened: 9:30 AM	Meeting adjourned: 10:06 AM
<b>Meeting Minutes</b>	<ul style="list-style-type: none"> <li>• Chief Guerette presented two capital requests for FY25, both of which were not previously on the five-year capital improvement plan</li> <li>• The first item presented was a police motorcycle, the Chief noted that while the Department's traditional cruiser fleet is in good shape meaning a replacement may not be necessary at this time, this would still be a policy discussion that she would need to have with the Select Board.</li> <li>• Chief Guerette explained that the addition of a motorcycle to the Department could be an effective recruitment and retention tool based on feedback they've received internally and from external candidates.</li> <li>• Chief Guerette also noted that the cost of the motorcycle was also less than that of a new cruiser</li> <li>• M. Sullivan asked the Chief to explain how the acquisition of the motorcycle would solve the issue of officers wanting to do more than patrol work as Medfield Police Officers. Chief Guerette explained that while the motorcycle would still allow an officer to perform patrol work, it also allows for increased traffic enforcement given that it is much smaller and maneuverable than a cruiser.</li> <li>• Chief Guerette also noted that a motorcycle assignment is a coveted one that would typically be granted to a veteran officer. The motorcycle would not allow for prisoner detention or transportation. The Medfield Police Department typically takes a summons approach towards arrests, the Chief clarified, so this likely would not much make of an impact on operations.</li> <li>• M. Sullivan asked if this would be a replacement or an addition to the Police vehicle fleet, to which Chief Guerette responded that her intention was to add this vehicle to the fleet.</li> <li>• K. Trierweiler and R. Aigler asked if there would be additional equipment needed for the motorcycle. Chief Guerette noted that \$33,000 request included lights, detailing, headset radio, helmet, boots, and other safety equipment.</li> <li>• M. Marcucci confirmed with the Chief that the line cruiser replacement will still need to take place in the future, and that the Committee would wait to hear the Select Board's feedback on the decision to add a motorcycle to the fleet.</li> <li>• The second item Chief Guerette presented was taser replacements, which offer a less lethal option for the Police Department. While the tasers currently issued are fully functional, they are no longer supported and the warranty for the tasers is now expired.</li> <li>• M. Sullivan asked how many tasers are included in the request, to which the Chief responded 18, which is for the entire force except herself.</li> </ul>	

- M. Sullivan asked about an approach of replacing each taser as they failed as opposed to replacing them all at once. Chief Guerette stated that replacement now would be beneficial because waiting for failure would result in losing a less lethal tool for potential use. M. Sullivan confirmed with the Chief that the tasers would need to be replaced after five years.
- Chief Carrico then presented a request for FY 2025 for the replacement of the department's hoses. The request of \$91,000 could potentially be funded through a grant, which the Chief is still waiting to hear news on.
- The Chief is required to annually test the Department's hoses, and has determined the current hoses have reached the end of their life cycle, which is about 20 years typically.
- The new hoses will be lighter and made of new material that may allow them to last up to 25 years.
- F. Gervasio confirmed with the Chief that the hoses would be replaced for the whole Department. The Chief also noted that the sizes of the hoses across the Department are currently all different sizes, and that the new hoses would all be the same size, allowing the Chief to standardize operations across the Department.
- M. Sullivan asked about the cost included in last year's five-year plan of \$59,000 rising to \$91,000. The Chief said his initial plan was to do piecemeal replacement of the hoses but the plan is to now replace all of the Department's hoses at once.
- K. Walper and M. Seibold presented a five-year outlook and FY 2025 requests for the Medfield Parks and Recreation Department.
- The first project presented was replacement of lighting at the Metacomet tennis parks. A \$100,000 earmark is available for this replacement, and the Parks and Recreation Department is seeking an additional \$65,000 from the Capital Stabilization Fund for the replacement. K. Walper mentioned that it is difficult for the Parks and Recreation revolving fund to fund capital projects greater than \$100,000. She also noted that there is a group in town interested in raising funds for the replacement of the lights, and that she is exploring that option as well.
- The second project presented was for the paving of the parking lot at the Hinkley Swim Pond and playground. K. Walper has received complaints and concerns regarding the safety of the parking lot and the inability to fix the holes. This will also be important given the upcoming replacement of the playground on the site, which will be a destination for residents.
- K. Walper noted that the Conservation Commission has also been informed given the proximity to the pond.
- F. Gervasio noted that the pricing for FY26 request on the five-year plan for resurfacing of the Metacomet tennis courts was still to be determined. M. Marcucci asked if the fundraising efforts would be put towards the resurfacing as well, to which K. Walper responded that the group looking to raise funds was primarily interested in the lighting but that any excess funds could potentially be used for this purpose as well as the Capital Stabilization Fund or Parks and Recreation revolving fund.
- It was discussed that the \$100,000 earmark would be available for the lighting project, and a \$20,000 would be available for the refurbishment specifically.
- The Capital Budget Committee scheduled the following meetings:
  - September 21, 2023 at 10:00am
  - October 6, 2023 at 9:30am
  - October 12, 2023 at 10:00am
- F. Gervasio noted he was following up on the life cycle analysis document discussed with M. Sullivan
- The Committee voted unanimously to adjourn

<b>List of all documents and exhibits used</b>	<ul style="list-style-type: none"><li>● Parks and Recreation Departmental Capital Requests</li><li>● Police Department Departmental Capital Requests</li><li>● Fire Department Departmental Capital Requests</li></ul>
<b>Next Meeting</b>	<ul style="list-style-type: none"><li>● September 21, 2023 at 10:00 am</li></ul>

## FY2025 to FY2029 Capital Improvement Plan

Department	Project #	Project	Project Description	Funding Source	Total Project Cost	FY2025 Request	FY2026 Request	FY2027 Request	FY2028 Request
Dam Improvements	DAMS 2	Danielson Pond Dam Restoration	Restore and improve the Danielson Pond Dam. The Town will submit a grant application to the Massachusetts Dam and Seawall Repair or Removal program.	Grant	808,000	808,000			
Public Works	PW 10	Backhoe	Replace vehicle #16, a 2004 John Deere Backhoe	Capital Stabilization Fund	180,000		180,000		
Public Works	PW 11	Ford F550	Replace vehicle #25, a 2006 Ford F350 w/plow	Capital Stabilization Fund	105,000	105,000			
Public Works	PW 17	6-Wheel Dump Truck	Replace vehicle #3, a 1988 Mack Truck with a 2025 Mack Truck with plow and sander	Capital Stabilization Fund	260,000	260,000			
Public Works	PW 18	Ford F550	Replace vehicle #41, a 2008 Ford F350 with plow with a 2025 F550 with plow	Capital Stabilization Fund	105,000		105,000		
Public Works	PW 12	Road Improvements	Chapter 90 road improvements, including crack sealing, mill and overlay, and reclamation	Chapter 90	2,060,000	412,000	412,000	412,000	412,000
Public Works	PW 14	Transfer Station Reconfiguration	Reconstruct the transfer station to improve traffic flow, solid waste and recycling stations, and install new compactors and equipment	Capital Stabilization Fund	500,000			500,000	
Public Works	PW 19	Snow Blower	Replace unit #68, a Sno-Go Snow blower, with a 2026 Snow Blower	Capital Stabilization Fund	125,000			125,000	
Public Works	PW 20	Ford F550	Replace vehicle #5, a 2008 Ford F550, with a 2026 F550 with plow	Capital Stabilization Fund	105,000			105,000	
Public Works	PW 21	Dump Trailer	Replace unit #67, a 1988 Dump Trailer, with a 2026 Dump Trailer	Capital Stabilization Fund	50,000			50,000	
Public Works	PW 24	Sweeper	Replace existing Elgin Sweeper #12 with new Sweeper	Capital Stabilization Fund	200,000				200,000
Public Works	PW 25	6 Wheel Dump Truck	Replace Vehicle #7, a 2005 Mack Truck with a new Mack Truck with plow and sander	Capital Stabilization Fund	200,000				200,000
Public Works	PW 29	Variable Sign	Replace solar powered variable sign that displays important updates to residents and others passing through Town	Capital Stabilization Fund	30,000	30,000			
Public Works	PW 26	Cemetery Mower	Replace existing cemetery mower	Capital Stabilization Fund	17,000	17,000			
Public Works	PW 16	Sidewalk Master Plan Implementation	Begin implementation of the Town's sidewalk master plan	Capital Stabilization Fund	750,000	150,000	150,000	150,000	150,000
DPW Pavement Management	PAVE 7	Pavement Management and Improvement - Various Projects	Pavement management and improvement projects	Capital Stabilization Fund	925,000	185,000	185,000	185,000	185,000
DPW Water Division	WATER 4	Ford F550	Replace (W-4) F550 with a Ford F550 6-Wheel Dump Truck w/plow	Water Enterprise Fund	100,000		100,000		
DPW Water Division	WATER 12	Ford F550	Replace (W-1) F550 with a Ford F550 6-Wheel Utility Truck w/plow	Water Enterprise Fund	100,000			100,000	
DPW Water Division	WATER 15	Water Main Replacement	Water main replacements at locations to be identified and prioritized through study currently underway	Water Enterprise Fund	1,416,000	280,000	272,000	264,000	300,000
DPW Sewer Division	SEW 8	WWTP Improvement	Replace DAF with Gravity Belt/Flotation Thickener	Sewer Enterprise Fund	200,000	200,000			
DPW Sewer Division	SEW 9	Clean Sewer Mains	Jet Sewer Mains	Sewer Enterprise Fund	100,000		100,000		



**Richey & Clapper, Inc.**  
 33 Boston Post Rd  
 Sudbury, MA 01776  
 (978) 443-1333  
 www.richeyandclapper.com

## Invoice Estimate

**37868**

Thank you for the opportunity to earn your business! We hope to see you back soon. Quotes are valid for 15 days for in-stock products only. Please contact us with any questions.

Bill To			Ship To			
Customer	Contact	Customer Tax Number	Phone	Cell Phone	Transaction	PO Number
1853	Tim	046001216	(508) 889-3968	(508) 889-3968	Estimate	
Counter Person	Sales Person	Date Printed	Reference	Email Address		Department
RFD	House Account	08/22/23	37868			

**Section 1 Hustler Super Z 54in with Bac-Vac Collection System.**

Part Number	Line	Description	Ordered	B/O'd	Shipped	List	Net Each	Amount
128797	EXCP	54 Deck Adapter, 2023 SZ	1	1	\$499.00	\$499.00	\$499.00	\$499.00
Labor	Line	Mechanic			Rate	Time		Amount
Setup					Equip Assy And Prep	\$80.00	3:00	\$240.00
Model	Line	Description	Ordered	B/O'd	Shipped	List	Net	Amount
942805	EXWW	Super Z, 54" - FX850 27hp	1	1	\$17,122.00	\$12,499.06	\$12,749.06	
		Description	Qty		Net Each		Amount	
		Factory Freight	1		\$250.00		\$250.00	
943563	EXWW	Bac Vac, 2023 Super Z	1	1	\$3,799.00	\$3,419.10	\$3,419.10	
		Wholegoods Notes						
		Dump from the seat clamshell style Bac-Vac						

**Note**

State contract FAC116 Discounted Pricing.

Invoice Total	\$16,907.16
Sales Tax	\$0.00
Grand Total	\$16,907.16

Quotes are valid for 15 days for in-stock items only. Quotes are based on a cash/check discounted purchase price, unless otherwise noted. For equipment not in stock, the pricing & factory freight charges are subject to change. Special order parts and equipment are not returnable.

Notes: \_\_\_\_\_ Customer acknowledges receipt thereof:





# Estimate

Date: 9/23/2023  
 Estimate# MPWD09232023  
 Customer ID:

To: Medfield Public Works  
 Attn: Kevin Chabot

Salesperson: Paul G King  
 508-918-2210

## GBPC/BAPERN Contract

Qty	Item #	Description	Unit Price	Line Total
		2024 Ford Super Duty F-550 DRW (F5H) XLT 4WD Reg Cab 145" WB 60" CA		\$54,504.00
	MB	EXTERIOR COLOR: VSO PAINT - OMAHA ORANGE	\$ 660.00	\$ 640.20
	99N	Engine: 7.3L 2V DEVCT NA PFI V8 Gas -inc: 410 Amp Dual Alternators, 250 Amp + 160 Amp(STD)		\$
	44G	Transmission: TorqShift 10-Speed Automatic -inc: 10R140 w/neutral idle, SelectShift and selectable drive modes: normal, tow/haul, eco, slippery roads and off-road(STD)		\$
	663A	OPTION PACKAGE: Order Code 663A -inc: 410 Amp Dual Alternators, 250 Amp + 160 Amp		\$
		Gross Vehicle Weight Rating: 19,000 Lbs		\$ -
		Gross Combined Weight Rating: 30,000 Lbs		\$
	3S	SEAT TYPE:Medium Dark Slate, Cloth 40/20/40 Split Bench Seat -inc: 20% center under-seat storage, center armrest, cupholder, storage, 2-way adjustable driver/passenger headrests and driver's side manual lumbar		\$ -
	X8L	Limited Slip w/4.88 Axle Ratio	\$ 395.00	\$ 383.15
	64D	Wheels: 19.5" x 6" Forged Polished Aluminum -inc: bright hub covers/center ornaments	\$ 1,095.00	\$ 1,062.15
	TGM	Tires: 225/70Rx19.5G BSW Traction -inc: 4 traction tires on the rear and 2 A/P tires on the front	\$ 190.00	\$ 184.30
	67B	410 Amp Dual Alternators -inc: 250 Amp + 160 Amp	INC	INC
	473	Snow Plow Prep Package -inc: pre-selected springs, Highly recommended to add (86M) dual battery on 7.3L gas engine	\$ 250.00	\$ 242.50
	68U	GVWR: 19,000 lbs Payload Upgrade Package -inc: upgraded frame and upgraded rear-axle, Note: See Order Guide Supplemental Reference for further details on GVWR and payload ranges	\$ 815.00	\$ 790.55
	512	Spare Tire & Wheel	\$ 350.00	\$ 339.50
	18B	Platform Running Boards	\$ 320.00	\$ 310.40
	61L	Front Wheel Well Liners	\$ 180.00	\$ 174.60
	166	Carpet Delete -inc: Replaced w/black flooring*CREDIT*	(\$50.00)	(\$48.50)
	872	Rear View Camera & Prep Kit -inc: Pre-installed content includes cab wiring and frame wiring to the rear most cross member, Upfitters kit includes camera w/mounting bracket, 20' jumper wire and camera mounting/aiming instructions	\$ 415.00	\$ 402.55
	76C	Exterior Backup Alarm	\$ 175.00	\$ 169.75

# BainCor, Inc.

Holbrook, MA 02343

763 South Street

## Estimate

Date	Estimate #
9/7/2023	2913

Name / Address
Town of Medfield 459 Main Street Medfield, MA 02052

		Project	
Description	Qty	Rate	Total
"Wanco" Medium Metro Message Board Model:WVTMM-M with Hand-Operated Winch (Display Size: 48" x 72") Full matrix display • 12" default font, variable font sizes • 85W Solar Panel • Four 6 volt Deep Cycle batteries, 400 Ah total capacity • Telescoping hand winch tower with 360-degree rotation • Internal Touch-screen Sign Controller • Orange powder-coat finish • 2" Ball hitch • Removable draw bar • High Density Polyethylene Fenders	1	16,750.00	16,750.00
***** Optional Upgrades *****			
>130W Solar - (Upgrade) 130-watt Solar Panel Replaces Standard 85W Solar Panel 53% Increase And >Two - 4D AGM Battery Box (Upgrade) Wanco Standard Battery Box Two 12VDC AGM Batteries 400 Ah total capacity 45 amp Battery Charger			
Add \$1,250			
FREIGHT IN	1	1,100.00	1,100.00
MassDOT Statewide contract ITS Equip 111753	<b>Subtotal</b>		
This estimate/quote is valid for 30 days.	<b>Sales Tax (0.0%)</b>		
<b>Total</b>			

Phone #	Fax #	E-mail	Web Site
339-987-5525	339-987-5528	wbainter@baincor.com	www.baincor.com

# MACK®



Mack Trucks  
[www.macktrucks.com](http://www.macktrucks.com)

# PRICING SUMMARY

## GRANITE 42FR

### VEHICLE PRICE

EXTERNAL LOCALS		\$147,466.00
see quote		\$115,410.00
<b>TOTAL VEHICLE PRICE</b>		<b>\$262,876.00</b>

### TAX SUMMARY

	AMT. SUBJECT TO TAX	
FET	N/A	\$0.00
Tire Tax Credit	N/A	\$(261.22)
<b>TOTAL TAX</b>		<b>\$(261.22)</b>
<b>TOTAL SELLING PRICE (PER UNIT) USD</b>		<b>\$262,614.78</b>

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TOWN OF MEDFIELD

DATE

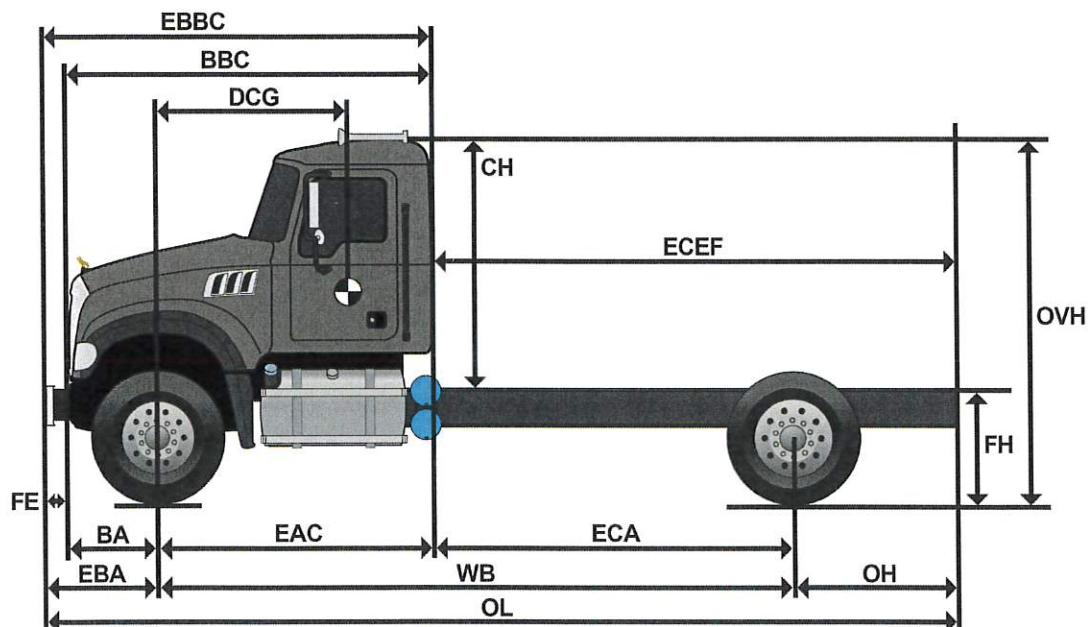
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BALLARD MACK SALES & SERVICE, INC.

DATE

**VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY**

Description	Sales Code	Dwg Ref	Length	UOM
Front Frame Extension	N/A	FE	20.0	INCHES
Bumper to Front Axle	N/A	BA	29.0	INCHES
Eff. Bumper to Front Axle	N/A	N/A	49.0	INCHES
Wheelbase	N/A	WB	179.5	INCHES
Rear Overhang	N/A	OH	62.8	INCHES
Overall Length	N/A	OL	291.3	INCHES
Bumper to Back of Cab	N/A	BBC	116.5	INCHES
Eff. Bumper to Back of Cab	N/A	EBBC	136.5	INCHES
Eff. Cab to Rear Axle	N/A	ECA	92.0	INCHES
Eff. Front Axle to Back of Cab	N/A	EAC	87.5	INCHES
Eff. Cab to End of Frame	N/A	ECEF	154.8	INCHES
Unladen Frame Height	N/A	FH	43.1	INCHES
Cab Height	N/A	CH	70.9	INCHES
Overall Height	N/A	OVH	117.1	INCHES
Driver CG	N/A	DCG	70.9	INCHES





ORDER ENTRY # \_\_\_\_\_

QUOTATION

REF: T/O MEDFIELD DPW

QUOTE / ORDER # N9071-1

CUSTOMER: **BALLARD TRUCKS, INC.**  
CONTACT: ERIC ARCHAMBAULT  
ADDRESS: ONE MACK DRIVE  
AVON, MA-02322  
PHONE: 1-800-955-5800.  
FAX: 1-508-584-5587.

6 ENTERPRISE DRIVE  
LONDONDERRY, NH 03053  
PHONE: 603-669-2250  
FAX: 603-669-0501

DATE: 9/7/23

TRUCK INFO:

VIN #: \_\_\_\_\_  
YEAR: 2024  
MAKE: MACK  
MODEL: GR42F  
CA: 92"  
TRANS: MANUAL 8LL  
COLOR: HWY ALUM.

**HOIST SR. #** \_\_\_\_\_  
**"BEAU-ROC" DUMP BODY "DIAMOND-DH" MODEL 10'6" LONG 36" SIDES 42" GATE**  
1/4" HARDOX 450 ONE PIECE FLOOR W/ ANTI-ABRASIVE  
1/4" HARDOX 450 TAPERED AIR GATE - FLAME CUT HARDWARE W/ TWO HORIZONTAL BENDS  
3/16" HARDOX 450 ONE PIECE SIDES W/ TWO HORIZONTAL BENDS IN CENTER  
3/16" HARDOX 450 ONE PIECE FRONT W/ 45 DEGREE FRONT CORNERS  
8" HIGH FORMED LONG MEMBERS - 3/16" DOMEX 100W WITH INSIDE GUSSETS FOR STRENGTH  
36" CAB PROTECTOR - DRIVER SIDE FRONT STEPS  
MAILHOT CS-90-4.5-3 TELESCOPIC HOIST W/ 25 TON CAPACITY  
SAFETY PROP / BACKUP ALARM & BODY UP ALARM  
SET OF FRONT & REAR MUD FLAPS  
ALL LIGHTS & REFLECTORS TO MEET FMVSS-108 (LED)

INSTALLED \_\_\_\_\_

- FRONT MOUNT DRIVEN CENTRAL HYDRAULICS W/ DRY VALVE TO OPERATE DUMP / SCRAPER LIFT / PLOW LIFT / PLOW ANGLE & MUNCIE ELEC. SANDER CONTROL
- LOW PROFILE PLOW FRAME W/ 4" X 10" D/A CYLINDER /LIGHTS / 30.5 & 21" O/C
- 10' FLINK BAKER 42" HIGH TRIP EDGE PLOW W/ 30.5" O/C
- 10' MONROE FIXED ANGLE UNDERBODY SCRAPER #MS4510FX  
1" THICK 20" HIGH / DUAL CYLINDERS & CUTTING EDGE
- THREE COAL DOORS - INSTALLED -----
- 30 TON HOOK ON 3/4" PLATE WITH D-RINGS & 6 PRONG ROUND PLUG -----
- PIONEER EDD1500DA ELECTRIC COVER W/ ASPHALT TARP-----
- LED 404 STROBES 2 INSTALLED IN CAB SHIELD & 2 IN REAR POSTS -----
- TURNBUCKLE TAILGATE SAFTEY LOCKS -----
- ALL ELECTRICAL TO BE WIRED THROUGH JUNCTION BOX -----
- SANDER TIE DOWNS FULL LENGTH UNDER TOP RAIL-----
- HYDRAULIC LINES MOUNTED ON DRIVERS SIDE FRONT-----
- 8" OAK BOARDS-----
- 10' FLINK LMC5H 6.4 YD STAINLESS STEEL HYDRAULIC SANDER INSTALLED
- STAINLESS STEEL SPILL SHIELD (FRONT) -----
- STAINLESS STEEL TAILGATE LATCH BAR-----
- FLINK DUAL 85 GALLON LIQUID TANKS INSTALLED (ELECTRIC) -----
- STAINLESS STEEL LED LIGHTBAR W/ STROBES / STT / & REVERSE LIGHTS\$
- 8" STEEL FORK TUBES BOLTED** TO BOTTOM OF SANDER FOR REMOVAL W/ FORKS
- 2 SPOTLIGHTS IN REAR TO VIEW SPREAD-----

**\$115,410.00**

I HAVE READ AND APPROVED THE ABOVE QUOTATION AND  
HEREBY AUTHORIZE YOU TO COMPLETE THE WORK.

CUSTOMER SIGNATURE: \_\_\_\_\_  
QUOTATION IS VOID AFTER 30 DAYS.

DATE: \_\_\_\_\_

QUOTED BY: NICK COVATIS

# TECHNICAL SPECIFICATION

## GRANITE 42FR



APPLICATION PACKAGES		DESCRIPTION
CHASSIS CONFIGURATION PACKAGE		ONEBOX EATS, RH BATTERY BOX, 11.8 GALLON (45L) DEF, SINGLE 22" LH FUEL TANK
CUSTOMER/VEHICLE INFO		DESCRIPTION
<b>S</b>	CHASSIS (BASE MODEL)	GRANITE 42FR
<b>S</b>	ASSEMBLY PLANT	Made in Macungie, PA USA
CUSTOMER FLEET SIZE		DEALER FLEET WITH LESS THAN 25 VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND
<b>S</b>	TYPE OF SERVICE	COMMERCIAL
<b>S</b>	WARRANTY REGISTRATION LOCATION	USA - WARRANTY REGISTRATION LOCATION
EMISSION WARRANTY CERTIFICATION		EPA (only) for Mack MP7 / MP8 Diesel
INTENDED REGISTRATION LOCATION		MASSACHUSETTS
<b>S</b>	INITIAL REGISTRATION LOCATION	USA REGISTRATION
BRAND ORNAMENT		BULLDOG BRAND ORNAMENT, CHROME
<b>S</b>	LANGUAGE-PUBS/DECAL/SIGNS	ENGLISH
<b>S</b>	ROAD CONDITION	WELL MAINTAINED SURFACED ROADS >95% DRIVING DISTANCE
VEHICLE USE & BODY/TRAILER TYPE		SNOW PLOW FRONT MOUNTED
TRAILER TYPE		FIXED DRAWBAR TRAILER AND CENTERED AXLES
GROSS COMBINATION WEIGHT (CA in PC29 only)		80,000 LB (36 TONNES) GROSS COMBINATION WEIGHT
<b>S</b>	BRAKE REGULATION	BRAKE REGULATION, STOPPING DISTANCE 94M (310FT)
TOPOGRAPHY		GRADES <3% GREATER THAN 98% OF DRIVING DISTANCE MAX GRADE 8%
<b>S</b>	AMBIENT TEMP UPPER LIMIT (GTA)	AMBIENT TEMPERATURE HOT. WARMER THAN 104 F (40 C) ALLOWED UP TO 25 HOURS PER YEAR
<b>S</b>	OPERATING TERRAIN GRADE CONDITIONS	ON-OFF HIGHWAY, STARTING GRADES<18%
<b>S</b>	LOADING SURFACE FACTOR	CONCRETE LOADING AND / OR UNLOADING SURFACE
VEHICLE VOCATION		CONSTRUCTION SERVICE
ENGINE/TRANSMISSIONS		DESCRIPTION
ENGINE PACKAGE, COMBUSTION		MP7-355C MACK 355HP @ 1600-1800 RPM (PEAK) 2100 RPM (GOV) 1250 LB-FT, US'21
<b>S</b>	GHG APPLICATION, VEHICLE TRANSMISSION	GREEN HOUSE GAS VOCATIONAL APPLICATION
FULLER RTO-16908LL (14.56/0.74)		
<b>S</b>	GEARBOX 12TH GEAR LOCK-OUT	WITHOUT 12TH GEARBOX GEAR LOCK-OUT
EXHAUST/EMISSIONS		DESCRIPTION
<b>S</b>	DPF DIESEL PARTICULATE FILTER	CLEARTECH ONE BOX E.A.T.S. RH SIDE UNDER CAB US17 / US21
CHASSIS MOUNTED EMISSIONS FINISH		BRIGHT FINISH DEF COVER & STAINLESS STEEL DPF COVER
DIESEL EXHAUST FLUID TANK		11.8 GALLON (45 L) 22" LEFT SIDE FRAME MOUNTED
EXHAUST		SINGLE VERTICAL RIGHT SIDE CAB MOUNTED, LOWER VENTURI DIFFUSER, TURNED END
EXHAUST STACK HEIGHT		9' 6" FROM GROUND
EXHAUST SYSTEM MATERIAL FINISH		SINGLE, BRIGHT FINISH HEAT SHIELD, STACK
ENGINE EQUIPMENT		DESCRIPTION
AIR CLEANER		UNDER HOOD SINGLE ELEMENT DRY TYPE W/AIR CONTROLLED INSIDE-OUTSIDE AIR INTAKE
<b>S</b>	BUG SCREEN	BLACK ALUMINUM BUG SCREEN MOUNTED BEHIND GRILLE, WITHOUT WINTER FRONT COVER

# TECHNICAL SPECIFICATION (cont.)



ENGINE EQUIPMENT		DESCRIPTION
	AIR COMPRESSOR/DRYER	WABCO AIR HEATED SS-HP AIR DRYER W/ WABCO 318 (18.7 CFM) AIR COMPRESSOR
<b>S</b>	AIR DRYER POSITION (CA)	AIR DRYER POSITION STANDARD
<b>S</b>	ALTERNATOR	DELCO 12V 160A (28S) BRUSH-TYPE
<b>S</b>	BATTERIES	(3) MACK 12V 760/2280 CCA THREADED STUD TYPE
	BATTERY BOX - MOUNTING (x)	RH RAIL BEHIND SCR
	BATTERY BOX COVER	POLISHED ALUMINUM
<b>S</b>	STARTER MOTOR	12 VOLT DELCO 39MT-MXT
	ENGINE BRAKE	MACK MP7 POWERLEASH
<b>S</b>	FAN DRIVE	BEHR FAN AND ELECTRONIC MODULATING VISCOS FAN DRIVE
<b>S</b>	COOLANT PROTECTION	ETHYLENE GLYCOL FULLY FORMULATED COOLANT (50/50 MIX DYED PINK) TO -34DEG, W/ FILTER
<b>S</b>	HOSES - RADIATOR/HEATER	MACK EPDM RADIATOR & HEATER HOSES
<b>S</b>	FUEL-WATER SEPARATOR	MACK W/MANUAL DRAIN VALVE V2 (INTEGRAL W/ PRIMARY FUEL FILTER)
<b>S</b>	PRIMARY FUEL FILTER POSITION (CA)	STANDARD FUEL FILTER POSITION
<b>S</b>	ENGINE HEATERS	120v 1500w BLOCK HEATER ONLY (120V-15A PLUG)
	OIL SUMP	CORROSION RESISTANT OIL PAN
<b>S</b>	ENGINE STOP, EMERGENCY (CA in PC29 only)	WITHOUT ENGINE STOP, EMERGENCY

CLUTCH/TRANS EQUIPMENT		DESCRIPTION
	GEAR SHIFTER	EATON/FULLER SHIFTER
	CLUTCH	EATON ADVANTAGE SOLO 9-SPRING,2PLATE 15.5" CERAMIC 6 PADDLES, SELF ADJUST
	CLUTCH ACTUATION SYSTEM & PEDAL PAD	MECHANICAL CLUTCH CABLE SYSTEM WITH OPEN GRATE PEDAL
	DRIVELINE - MAIN	MERITOR RPL25HD W/PERMALUBE U-JOINTS (PROPS-L)
	PROPELLR SHAFT MAIN, UNVSL JNT	UNIVERSAL JOINT HALF-ROUND TYPE
<b>S</b>	TRANSMISSION OUTPUT TORQUE	TRANSMISSION OUTPUT TORQUE BASIC
	LUBRICANTS, TRANSMISSION	SYNTHETIC OIL IN TRANSMISSION
	TRANSMISSION OIL COOLER	TRANS OIL COOLER (INTEGRAL OIL PUMP)

FRONT AXLE EQUIPMENT		DESCRIPTION
	FRONT AXLE	20000# (9100 KG) MACK FXL20 STRAIGHT SPINDLE/UNITIZED BEARINGS
	SPRINGS - FRONT	MACK TAPERLEAF 20000# (9100 KG) GROUND LOAD RATING, EQUAL BIAS
<b>S</b>	FRONT AXLE BRAKES	MERITOR "S" CAM TYPE 16.5" x 6" Q+
<b>S</b>	BRAKE, FRONT	CAST IRON
	FRONT AXLE BRAKE DUST SHIELD	DUST SHIELDS FOR FRONT AXLE
<b>S</b>	FRONT BRAKE ADJ. MANUFACTURE	HALDEX - AUTOMATIC
	FRONT BRAKE CHAMBER MFG.	FRONT BRAKE CHAMBER MANUFACTURER, MGM
<b>S</b>	HUB MATERIAL, FRONT	FERROUS
<b>S</b>	FRONT AXLE LUBRICANT	FRONT AXLE LUBE, FAG NLGI2 GREASE
<b>S</b>	SHOCK ABSORBER, FRONT	DOUBLE ACTING TYPE
	STEERING	SHEPPARD SD110 + HD94

REAR AXLE EQUIPMENT		DESCRIPTION
	REAR AXLE - SINGLE	26000# (11800kg) MERITOR RS-26-185 SINGLE REDUCTION
<b>S</b>	REAR AXLE CASING WIDTH	W/O WIDE TRACK AXLE
<b>S</b>	DRIVE AXLE LUBRICANT	DRIVE AXLE LUBE, SHELL 75W90 SYNTHETIC OIL

# TECHNICAL SPECIFICATION (cont.)



REAR AXLE EQUIPMENT		DESCRIPTION
CARRIER - REAR AXLE		VENDOR AXLES
TRACTION DIFFERENTIAL		INTERWHEEL DIFFERENTIAL LOCK, FRONT-REAR AXLE ONLY
REAR AXLE RATIO		4.30 RATIO
REAR SUSPENSION - SINGLE		26000# MULTILEAF W/HELPER
BRAKES - REAR		MERITOR HEAVY DUTY "S" CAM 16.5"x7" Q+
<b>S</b> BRAKE, DRIVE, REAR		CAST IRON
<b>S</b> REAR BRAKE ADJ MANUFACTURE		HALDEX - AUTOMATIC
DRIVE AXLE BRAKE DUST SHIELD		DUST SHIELDS FOR REAR AXLE
REAR BRAKE CHAMBER SIZE		REAR SPRING BRAKE CHAMBERS 30/30 TYPE
BRAKE ORI REAR-MOST DRIVE AXLE		DRUM BRAKE CHAMBER ORIENTATION: Middle Mount - Forward of Axle - Chamber Up
PARKING BRAKE CHAMBER		MGM TR3030LP3THD BRAKE CHAMBERS
<b>S</b> HUB MATERIAL, DRIVE		IRON PRESET REAR HUB W/INTEGRATED SPINDLE NUT
<b>S</b> ANTILOCK BRAKE SYSTEM		BENDIX WITH TRACTION CONTROL 4S4M
<b>S</b> BRAKE VALVE VERSION		BENDIX SWITCHES AND VALVES WHERE POSSIBLE

FRAME EQUIPMENT/FUEL TANKS		DESCRIPTION
WHEELBASE		180"
AF (OVERHANG)		63"
FRAME RAILS & LINERS		11.1 x 90 x 300mm - (0.437" x 3.54" x 11.81"); RBM 2,820,000 LB-IN
FRONT FRAME LENGTH		BUMPER POSITION EXTENDED 20" (SNOW)
<b>S</b> CROSMEMBERS		BOC AND INTERMEDIATE(S) STEEL HD BACK-TO-BACK CHANNEL
<b>S</b> REAR CROSMEMBER OPTIONS		STEEL CLOSING REAR CROSMEMBER
<b>S</b> REAR FRAME TREATMENT		WITHOUT TAPERED FRAME RAIL ENDS
<b>S</b> FRONT BUMPER		EXTENDED-SWEPT BACK-STEEL
<b>S</b> TOWING DEVICE, FRONT		HOOKS
<b>S</b> FUEL LEVEL SENDER UNIT, LIQUID		BASIC FUEL LEVEL SENDER MOUNTED ON L.H TANK
FUEL TANK - LH		66 GALLON (250 L) 22" ALUMINUM D-SHAPE
<b>S</b> FUEL TANK - RH		W/O RH FUEL TANK
<b>S</b> FUEL HOSES, LIQUID		BRAIDED HOSE
<b>S</b> FUEL FILLER NECK OPTIONS		WITHOUT FILLER NECK SCREEN, WITH NON-LOCKABLE FUEL TANK CAP
FUEL LINE OPTIONS, LIQUID		W/O FUEL LINE OPTION
<b>S</b> CAB INSTEP VERSION		STANDARD 2 STEP CAB ACCESS
<b>S</b> STEPS (BRIGHT) - FUEL TANK		STANDARD FINISH STEPS AND BRIGHT FINISH STRAPS

AIR/BRAKE		DESCRIPTION
<b>S</b> AIRTANK DRAIN VALVE		MANUAL (PETCOCK) DRAIN VALVES ON ALL TANKS
AIRTANK MATERIAL		ALUMINUM AIR TANK PAINTED CHASSIS COLOR
<b>S</b> RELOCATE AIR RESERVOIRS		W/O RELOCATED AIR TANKS
PARKING BRAKE VALVE		TWO (2) VALVE DUAL BRAKE SYSTEM - TRAILER SUPPLY AND TRACTOR-TRAILER PARK

ELECTRICAL		DESCRIPTION
DASH MOUNTED SWITCHES		SIX (6) ASSIGNABLE BODYBUILDER DASH SWITCHES (5 ON-OFF, 1 MOMENTARY)
<b>S</b> ROOF & SIDE MARKER LIGHTS		(5) TRUCKLITE CHROME BULLET ROOF MARKER & STANDARD MARKER / DIRECTIONAL SIGNAL
<b>S</b> HEADLAMP BULB TYPE		HEADLAMP BULB TYPE, LED, HEATED
<b>S</b> DAYTIME RUNNING LIGHTS		W/OVERRIDE SWITCH, PARK BRAKE & ENGINE RUNNING ACTIVATED

# TECHNICAL SPECIFICATION (cont.)



ELECTRICAL		DESCRIPTION
S	DRL OVERRIDE SPEED THRESHOLD	DRL OVERRIDE SPEED THRESHOLD 8 KMPH (5 MPH)
S	TAIL LAMPS	INCANDESCENT TAIL LAMPS
	WORK LIGHTS - CHASSIS MOUNTED	RH/LH LED WORK LIGHT (STEPS & GROUND) ON BOTH SIDES TRUCK
TRAILER CONNECTIONS		DESCRIPTION
	TRAILER BRAKE VALVE	HAND CONTROL VALVE FOR TRAILER OR REAR SERVICE BRAKES - DUAL FUNCTION
	TRAILER CONNECTION POSITION	TRAILER AIR BRAKE CONNECTIONS, END OF FRAME
	TRAILER ELECTRICAL RECEPT	SINGLE 7 PINS STD SAE TYPE, END OF FRAME
PTO		DESCRIPTION
	POWER TAKE OFF CONTROL	TRANSMISSION PTO SWITCH AND LIGHT WITH WIRING AND PIPING FOR LOCAL INSTALLATION
	CRANKSHAFT ADAPTER	1350 SERIES FLANGE (DOES NOT INCLUDE FRONT FRAME EXTENSION)
S	BODY BUILDER INTERFACE	BODY LINK III W/CAB PASS-THRU
SPECIALTY EQUIPMENT		DESCRIPTION
S	LANE SUPPORT SYSTEM (LSS)	WITHOUT LANE SUPPORT SYSTEM
S	DATA CAPTURE	WITHOUT DATA CAPTURE
S	CAMERA, SURVEILLANCE	WITHOUT CAMERA
CAB INTERIOR (A THRU G)		DESCRIPTION
S	SPEEDOMETER -& GAUGES - UNIT(s) OF MEASURE	U.S. UNITS (PREDOMINANT)
	GAUGE OIL TEMP-REAR AXLE	REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY)
S	AIR CONDITIONING/HEATER	BLEND AIR HVAC W/"ATC" TEMP REGULATION
S	CUPHOLDER	CUPHOLDER
S	DOME LAMP, INTERIOR	(4) DOME LAMPS - DOOR AND SWITCH ACTIVATED
S	DASH INDICATOR - LAMP BODY OUT OF POS	DASH MTD, INDICATOR BODY/HOIST UP "BODYBUILDER LAMP"
S	FLOOR COVERING	POLYURETHANE FLOOR MAT WITHOUT REMOVABLE INSERTS
CAB INTERIOR (H THRU R)		DESCRIPTION
S	INSTMNT CLUSTER LANGUAGE	DEFAULT: ENGLISH, SPANISH, FRENCH
S	KEY TYPES FOR DOORS	ALL CHASSIS KEYED AT RANDOM
S	DOOR OPENING OPTIONS	W/O ELECTRONIC KEYLESS ENTRY
S	FORWARD OVERHEAD STORAGE	(2) STORAGE COMPARTMENTS AND NET RETAINERS W/CENTER MOUNTING FOR CB PROVISIONS
S	AUDIO ACCOMMODATION	PREMIUM STEREO, AM/FM, MP3, WEATHER BAND, BLUETOOTH
S	ANTENNA - RADIO	RADIO ANTENNA, CAB MOUNTED BEHIND LH DOOR
	ANTENNA - CB RADIO	48" ANTENNA LEFT SIDE MIRROR MOUNTED
S	POWER LEADS	POWER LEADS (5-WAY BINDING POSTS FOR CB RADIO) IN HEADER CONSOLE
S	AUDIO SPEAKER LOCATION	SPEAKER LOCATION, IN DOORS, MIDDLE HIGH SIDE PANEL
S	COM.RADIO PREP KIT (CB)	CB RADIO MOUNTING REINFORCEMENT IN HEADER CONSOLE
S	REAR WALL STORAGE COMPARTMENT	STORAGE POUCH REAR
CAB INTERIOR (S THRU Z)		DESCRIPTION
S	INTERIOR TRIM LEVELS	COMFORT TRIM PACKAGE, STEEL GRAY (Package 11A)
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# TECHNICAL SPECIFICATION (cont.)



CAB INTERIOR (S THRU Z)		DESCRIPTION
S	SEAT - DRIVER'S	MACK-AIR, HIGH BACK, 1 CHAMBER AIR LUMBAR
S	SEAT COVERING - DRIVER'S	DRIVER'S SEAT - STEEL GREY VINYL
S	SEAT - PASSENGER'S	MACK-FIXED, HIGH BACK
S	SEAT COVERING - PASSENGER'S	PASSENGER'S SEAT - STEEL GREY VINYL
	SEAT ARMREST	INBOARD MOUNTED ARM REST, DRIVER'S & RIDER'S SEAT
S	SEAT BELT(S)	LAP & SHOULDER (BOTH SEATS) CAB MOUNTED SHOULDER BELT ADJUSTMENT
S	SEAT BELT REMINDER	SEAT BELT REMINDER IN INSTRUMENT, WITH AUDIO
S	IGNITION TYPE	KEY TYPE
	STEERING WHEEL	2 SPOKE URETHANE GRIP, GUNMETAL SPOKES, W/O SWITCHES
S	WINDSHIELD TYPE	TWO PIECE WINDSHIELD
	CAB GLASS	HEATED TINTED WINDSHIELD, TINTED SIDE AND REAR WINDOW
S	WASHER RESERVOIR POSITION	W/O WINDSHIELD WASHER OPTION
S	WINDSHIELD WIPERS	2 SPEED ELECTRIC MOTOR W/INTERMITTENT FEATURE

CAB EXTERIOR		DESCRIPTION
	HOOD LATCH TYPE & FINISH	STRAP TYPE HOOD LATCH WITH BRIGHT FINISH
S	EXTERIOR TRIM FINISH AND PACKAGES	GRANITE BRIGHT AIR INTAKE
	GRILLE	BRIGHT FINISH BARS W/BRIGHT FINISH SURROUND GRILL MOUNTED
S	PASSENGER SIDE VISIBILITY OPTIONS	AUXILIARY WINDOW IN RH DOOR
	GRAB HANDLES	BF EXTERIOR CAB GRAB HANDLES, BLACK GRAB HANDLE RH INTERIOR WINDSHIELD POST
	HORN - AIR	(2) MACK RECTANGULAR SINGLE TRUMPET, BRIGHT FINISH ALUMINUM W/SNOW SHIELDS
S	HORN - ELECTRICAL	DUAL TONE
	MIRRORS - EXTERIOR	FLAT MIRROR - POLISHED ALUMINUM FINSH, HEATED, W/O LAMPS
	MIRRORS - CONVEX TYPE CAB DOORS	BRIGHT FINISH, LH & RH, 8" DIAMETER HEATED CONVEX
	SUN VISOR - EXTERIOR	SUN VISOR, EXTERIOR, FIBERGLASS (PAINTED)

AERODYNAMIC DEVICES		DESCRIPTION
S	CAB AERODYNAMIC PACKAGES	WITHOUT CAB AERODYNAMIC DEVICES
S	FRONT CHASSIS AERODYNAMIC PACKAGE	WITHOUT FRONT AERODYNAMIC FAIRINGS

WHEELS & TIRES		DESCRIPTION
	TIRES BRAND/TYPE - FRONT	315/80R22.5 L BRIDGESTONE M870 (20000 lbs) (Total for QTY = 2)
	WHEELS - FRONT	22.5x9.00 ACCURIDE 41730x POLISHED ALUMINUM, 7.00" OFFSET, 10 HAND HOLE (Total for QTY = 2)
	TIRES BRAND/TYPE - REAR	11R24.5 H BRIDGESTONE M799 (26440 lbs) (DRIVE ONLY) (Total for QTY = 4)
	WHEELS - REAR	24.5x8.25 ACCURIDE ACCU-LITE 42362x POLISHED ALUMINUM, 6.59" OFFSET, 10 HAND HOLE (Total for QTY = 4)
S	TIRE INFLATION VALVE	STANDARD VALVE STEMS AND CAPS
S	FRONT HUB/WHEEL TRIM	WITHOUT FRONT HUB/WHEEL TRIM
S	REAR HUB/WHEEL TRIM	WITHOUT REAR HUB/WHEEL TRIM
S	WHEEL NUT & FINISH, FRONT	WHEEL NUT BASIC FINISH, FRONT
S	WHEEL NUT FINISH, REAR (CA)	WHEEL NUT BASIC FINISH, REAR

COMMUNICATION SYSTEMS		DESCRIPTION
S	CO-PILOT - DISPLAY FEATURES ACCESS LEVEL	CO-PILOT DISPLAY, DRIVER ACCESS LEVEL 1

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# TECHNICAL SPECIFICATION (cont.)



COMMUNICATION SYSTEMS		DESCRIPTION
S	TELEMATIC GATEWAY	TELEMATICS GATEWAY, 4G/LTE AND WLAN SYSTEM WITH DIAGNOSTIC SERVICES
ENGINE ELECTRONICS		DESCRIPTION
S	OIL PRESSURE, ENGINE SHUTDOWN	OIL PRESSURE, ENGINE SHUTDOWN
S	COOLANT TEMP, ENGINE SHUTDOWN	COOLANT TEMP, ENGINE SHUTDOWN
S	ENGINE PROTECTION SYSTEM	ENGINE PROTECTION (SHUTDOWN)
	ENG FAN CNTL, A/C ON, TIME SET	ENG FAN CONTROL, A/C ON, TIME SETTING, 60 SEC
S	ENGINE IDLE CONTROL	IDLE CONTROL, 600 RPM
S	SMART IDLE ELEVATED IDLE RPM TIME	INCREASE 10 MINUTE MAXIMUM TIME
S	IDLE S/D ABS TAMPER CHECK	IDLE SHUTDOWN ABS TAMPER CHECK, ENABLED
S	IDLE S/D WARNING TIME	30 SEC IDLE S/D WARNING TIME
S	IDLE S/D IF WARM-UP TEMP	38C DEG (100F), WARM UP TEMP DELAY
S	IDLE S/D WARM-UP TIMER	5 MIN. WARM UP TIME DELAY
S	IDLE S/D IF PTO ACTIVE	ENGINE IDLE SHUTDOWN TIME OVERRIDDEN IF PTO ACTIVE
S	IDLE SHUTDOWN IF POWER > LIMIT	ENG IDLE SHUTDOWN TIME OVERRIDDEN IF TORQUE > THAN LIMIT
S	IDLE S/D OVERRIDE %ENGINE LOAD	IDLE SHUTDOWN OVERRIDE UPTO 20% ENGINE LOAD THRESHOLD
S	AMBIENT TEMP MIN TRESHOLD	AMBIENT TEMP MIN TRESHOLD, 16 DEG C, (60 DEG F)
S	AMBIENT TEMP MAX TRESHOLD	AMBIENT TEMP MAX TRESHOLD, 27 DEG C, (80 DEG F)
S	EL HD THROTTLE,MAX ROAD SPEED	ELECTRONIC HAND THROTTLE, MAX ROAD SPEED, 16 KMH (10 MPH)
	EL HAND THROTTLE,MAX ENG SPEED	ELECTRONIC HAND THROTTLE, MAX ENGINE SPEED, 2100 RPM
S	EL HAND THROTTLE,MIN ENG SPEED	ELECTRONIC HAND THROTTLE, MIN ENGINE SPEED, 700 RPM
S	EL HD THROTTLE,SPEED RAMP RATE	ELECTRONIC HAND THROTTLE, SPEED RAMP RATE, 100 RPM/SEC
TRANSMISSION ELECTRONICS		DESCRIPTION
S	TRANSMISSION ELECTRONICS PACKAGE	W/O ELEC TRANS PACKAGE OPTION (all non-Allison transmissions)
S	TRANSMISSION ELECTRONIC SHIFTING PROPERTIES	W/O ALLISON FUELSENSE 2.0 PROGRAMMING
VEHICLE ELECTRONICS		DESCRIPTION
S	ROAD SPEED LIMITER SETTING	105 KM/H ROAD SPEED LIMITER (65MPH)
	PEDAL RSL SETTING	105 KM/H PEDAL ROAD SPEED LIMITER (65MPH)
S	CRUISE CONTROL	CRUISE CONTROL
S	CRUISE CONTROL, MAX SPEED	MAX CRUISE, 105 KPH (65 MPH)
S	CRUISE CONTROL MIN SPEED	MIN CRUISE, 32 KPH (20 MPH)
S	CRUISE RESUME WITH CLUTCH	CRUISE RESUME WITH CLUTCH
S	ENG BRK ENGAGE IN CRUISE	ENG BRK ENGAGE IN CRUISE, 3 MPH, ABOVE SET SPEED
	DIFF LOCK SPEED LIMIT	DIFFERENTIAL LOCK ROAD SPEED LIMIT 24KMH (15MPH)
S	DETECTION SPEED SENSR TMPRNG	DETECTION OF SPEED SENSOR TAMPERING, ENABLE
S	ENG TORQUE LIMIT,SPEED SENSOR	ENG TORQUE LIMITED TO 50%, IF SPEED SENSOR TAMPER DETECTED
S	DRIVER ID FUNCTION	DRIVER ID FUNCTION, DISABLED
S	DR PERFORMANCE PARAMETERS	WITHOUT DRIVER PERFORMANCE PARAMETERS
S	ENGINE OVERSPEED,ALL COND, LOG	ENGINE OVERSPEED, ALL CONDITIONS, TIME LOG IF ABOVE 2200 RPM
S	ENGINE OVERSPEED,FUELED, LOG	ENGINE OVERSPEED, FUELED, TIME LOG IF ABOVE 2100 RPM
S	VEHICLE OVERSPEED,ALL COND,LOG	VEHICLE OVERSPEED,ALL COND, TIME LOG IF ABOVE 75MPH (121KMH)
S	VEHICLE OVERSPEED, FUELED, LOG	VEHICLE OVERSPEED, FUELED, TIME LOG IF ABOVE 70MPH (113KMH)
S	ENGINE IDLE DELAY TO LOG	ENGINE IDLE DELAY TO START LOG, 2 MIN

# TECHNICAL SPECIFICATION (cont.)



VEHICLE ELECTRONICS		DESCRIPTION
S	PERIODIC TRIP LOG DAY OF MONTH	PERIODIC TRIP LOG, DAY 1 OF THE MONTH

PTO ELECTRONICS		DESCRIPTION
S	PTO1 SINGLE SPEED CONTROL RPM.	PTO 1ST, SINGLE SPEED SETTING, 1000 RPM
S	PTO 1ST, MAX ROAD SPEED	1ST PTO, MAX ROAD SPEED, 10 MPH (16 KPH)
S	PTO 1ST, SPEED RAMP RATE	PTO 1ST, SPEED RAMP RATE 100 RPM/SEC
S	PTO 1ST, MAX ENGINE SPEED	PTO 1ST, MAX ENGINE SPEED, 2100 RPM
S	PTO 1ST, ROAD SPEED LIMIT	PTO 1ST, ROAD SPEED LIMIT, 97 KMH (60 MPH)
S	PTO 1ST, MINIMUM ENGINE SPEED	PTO 1ST, MINIMUM ENGINE SPEED, 600 RPM
S	PTO 2ND, SINGLE SPEED SETTING	PTO 2ND, SINGLE SPEED SETTING, 1000 RPM
S	PTO 2ND, MAX ROAD SPEED	2ND PTO, MAX ROAD SPEED, 10 MPH (16 KPH)
S	PTO 2ND, SPEED RAMP RATE	PTO 2ND, SPEED RAMP RATE 100 RPM/SEC
S	PTO 2ND, MAX ENGINE SPEED	PTO 2ND, MAX ENGINE SPEED, 2100 RPM
S	PTO 2ND, ROAD SPEED LIMIT	PTO 2ND, ROAD SPEED LIMIT, 97 KMH (60 MPH)
S	PTO 2ND, MINIMUM ENGINE SPEED	PTO 2ND, MINIMUM ENGINE SPEED, 600 RPM

PAINT		DESCRIPTION
S	PAINT DESIGN	SINGLE COLOR
S	PAINT TYPE	SOLID PAINT
	PAINT COLOR - FIRST COLOR	MACK ORANGE; P9052
S	PAINT COLOR - SECOND COLOR	NO SECOND TRUCK COLOR PROVIDED; NO COLOR
S	PAINT COLOR - THIRD COLOR	NO THIRD TRUCK COLOR PROVIDED; NO COLOR
S	PAINT - CAB PAINT SYSTEM	PAINT - CAB, URETHANE CLEAR COAT
S	CAB COLOR	SAME AS FIRST COLOR - CAB
S	HOOD COLOR	SAME AS FIRST COLOR - HOOD
	SUN VISOR COLOR	SAME AS FIRST COLOR - SUN VISOR
S	SLEEPER ROOF COLOR	WITHOUT SLEEPER ROOF COLOR
S	ROOF FAIRING COLOR	WITHOUT ROOF FAIRING
S	CHASSIS RUNNING GEAR	MACK BLACK (URETHANE); P3036
S	BUMPER	PAINT BUMPER SAME COLOR AS CHASSIS RUNNING GEAR
	FUEL TANK - ***NO INVENTED VARIANTS ALLOWED in the FUEL TANK PAINT FAMILY***	W/O OPTIONAL FUEL TANK PAINT
S	HUBS & DRUMS-FRONT	SAME AS CHASSIS RUNNING GEAR
S	HUBS & DRUMS-REAR	SAME AS CHASSIS RUNNING GEAR

CALCULATED CODES - KAX		DESCRIPTION
S	PROPCALC SELECTION	YES, THE ORDER MUST BE CALCULATED
	AUTO ROUTING & CLIPPING, CENTER	AUTOMATIC ROUTING & CLIPPING PLACEMENT, CENTER SECTION

BASE WARRANTY & PURCHASED COVERAGES		DESCRIPTION
	VEHICLE WARRANTY TYPE	SEVERE DUTY WARRANTY CLASSIFICATION
	BASIC CHASSIS COVERAGE	SEVERE DUTY STANDARD BASE COVERAGE 12 MONTHS/100,000 MILES (161,000 KM)
	EMISSION - SURCHARGE	EPA (only) for Mack MP7 / MP8 Diesel
S	ENGINE WARRANTY	MACK MP7/MP8 BASE ENGINE COVERAGE 24 MONTHS / 250,000 MILES (402,000KM)

# TECHNICAL SPECIFICATION (cont.)



<b>BASE WARRANTY &amp; PURCHASED COVERAGES</b>		<b>DESCRIPTION</b>
<b>S</b>	EMISSION COMPONENT COVERAGE	US and CANADA EQUIPPED VEHICLE EMISSION COMPONENTS COVERAGE 60 MONTHS/100,000 MILES (161,000 KM)
	TRANSMISSION WARRANTY	12/100K MI: EATON TRANSMISSION STANDARD SEVERE DUTY COVERAGE
	CARRIER & AXLE HOUSING WARRANTY	STANDARD VENDOR SEVERE DUTY COVERAGE 12 MONTHS/100,000 MILES (161,000 KM)
<b>S</b>	AIR CONDITIONING WARRANTY	AIR CONDITIONING STANDARD COVERAGE (Sealed System Only) 12 MONTHS UNLIMITED MILEAGE
	CHASSIS TOWING WARRANTY	STANDARD SEVERE DUTY CHASSIS TOWING - NOT APPLICABLE
<b>S</b>	ENGINE TOWING WARRANTY	STANDARD MACK ENGINE TOWING COVERAGE 24 MONTHS/250,000 MILES (402,000 KM)
<b>S</b>	GUARDDOG CONNECT BUNDLE	NO GUARDDOG CONNECT (ASIST & MACK ONECALL)

<b>Z - TO BE DISCONTINUED - GOING OBSOLETE</b>	<b>DESCRIPTION</b>
CARB 2008 IDLE REGULATION	IDLE EMISSION CERTIFICATION, BASIC

# BainCor, Inc.

Holbrook, MA 02343

763 South Street

## Estimate

Date	Estimate #
9/7/2023	2913

Name / Address
Town of Medfield 459 Main Street Medfield, MA 02052

		Project	
Description	Qty	Rate	Total
MassDOT Statewide contract ITS Equip 111753			
MassDOT Statewide contract ITS Equip 111753			
		<b>Subtotal</b>	\$17,850.00
This estimate/quote is valid for 30 days.		<b>Sales Tax (0.0%)</b>	\$0.00
		<b>Total</b>	\$17,850.00

Phone #	Fax #	E-mail	Web Site
339-987-5525	339-987-5528	wbainter@baincor.com	www.baincor.com

	Weathertech Floorliners		\$ 150.00
	2 Piece Ranguards		\$ 101.00
	THE FOLLOWING EQUIPMENT BEING INSTALLED ON ABOVE CHASSIS BY J C MADIGAN		\$ -
	SPECIFICATIONS FOR BUILD OF BODY ATTACHED		\$ 41,792.93
	<b>OPTIONAL EQUIPMENT - NOT INCLUDED IN TOTAL SHOWN - IF ORDER THE PRICE SHOWN WILL NEED TO BE ADDED</b>		\$ -
	NEW VENCO ELECTRIC/HYDRAULIC CRANE MODEL ET6K INSTALLED W/ CABINET REINFORCEMENT, BOOM REST, MANUAL OUTRIGGERS - <b>ADD \$25,778.77</b>		\$ -
	<b>PLEASE NOTE - MODEL YEAR 2023 HAS ALREADY CLOSED , PRICING FOR MODEL YEAR 2024 IS CURRENTLY BASED ON "DRAFT PRICING" FROM FORD MOTOR COMPANY. IF MODEL YEAR IS LESS IT WILL BE DEDUCTED</b>		\$ -
	<b>WE WOULD SUGGEST THAT YOU ADD 5% FOR ANY POTENTIAL INCREASE - IF LESS AMOUNT WILL BE DECREASED, IF MORE AMOUNT WILL BE INCREASED - WE SUGGEST ADDING - \$2,089.65 TO THE AMOUNT SHOWN</b>		\$ -
			\$ -

**Special Instructions:**

Custom or Special Orders are Non-Refundable

This Estimate is for Budgetary Purposes and is Not a Guarantee of Cost for Services.

Estimate is Based on Current Information From Client About the Project Requirements

Actual Cost May Change Once Project Elements are Finalized

**Vehicle Subtotal****Upfit Subtotal****Grand Total**

\$101,199.08

**McGovern Municipal 1200 Worcester Road, Framingham MA 01702**

DPW Sewer Division	SEW 3	Holding Tanks	Purchase and install two 10,000 Gallon sludge holding tanks	Sewer Enterprise Fund	200,000				200,000	
DPW Sewer Division	SEW 11	Indian Hill Pump Station Upgrade	Upgrade the Indian Hill Pump Station	Sewer Enterprise Fund	80,000				40,000	40,000
DPW Sewer Division	SEW 14	Annual I&I Improvements	Annual I&I work	Sewer Enterprise Fund	125,000	25,000	25,000	25,000	25,000	25,000
			<b>FY2025 to FY2029 Total</b>		<b>8,741,000</b>	<b>2,472,000</b>	<b>1,529,000</b>	<b>2,156,000</b>	<b>1,512,000</b>	

FY2029 Request
412,000
150,000
185,000
300,000

25,000
<b>1,072,000</b>