

# Capital Improvement Request Form Part I

(2)

Project/Program Title: District Station Renovation Program - Repl D2 Emergency Generator Requesting Department: Police  
 Prepared By/Phone Ext: John Ledvina 935-7495 Department Head Signature: [Signature]  
 Account No: \_\_\_\_\_

A) Department Priority 1 of 10 Useful Life '20-25 Years Level of Need  Essential  Important  Desired  
 Type of Project  New  Replacement  Repair  On-Going Program Project/Program Scope  Fully Defined  Partially Defined

B) Description  
**Infrastructure**  
 Street Related  Sewer  Water  Street Lighting  Communications  Recreation  
 Sidewalks  Alleys  Bridge  Environmental  Port  Parking  
**Building**  
 Roof  Windows  HVAC  Electrical  Restroom  Security  Exterior  Entire Facility  
 ADA  Office Remodeling  New Building  Elevators  Garage  Mechanical  
**Miscellaneous Development**  
 Economic  Information Systems  Equipment  Other \_\_\_\_\_

C) Project/Program Duration  
 One Year  Yes  No  
 On-Going Program  Yes  No  
 Multi-Year  Yes  No Number of Years \_\_\_\_\_

D) Total Positions \_\_\_\_\_ Total FTEs \_\_\_\_\_

Position Title	No. of Positions	FTEs	Salaries \$
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

E) In Six Year Capital Improvement Plan  
 Yes  2009-2014  2010-2015  Yes, Modified  New Request

F) Project/Program Justification  
 The current District 2 emergency generator is 58 years old (original to the building). Parts are no longer available and repair expertise is difficult to obtain. This backup power is essential to District 2 continuity of operations in the event of a commercial electricity power outage.

G) Additional Comments

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 000-85081-000



# Capital Improvement Request Part II

Requesting Department: Police

Project/Program Title: District Station Renovation Program - Repl D2 Emergency Generac Account No: \_\_\_\_\_

Year	Tax Levy/Borrowing	Grant & Aid	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010						\$0
2011 Budget Request	\$100,000					\$100,000
2012 Projection						\$0
2013 Projection						\$0
2014 Projection						\$0
2015 Projection						\$0
2016 Projection						\$0
Total Six Year Cost	\$100,000	\$0	\$0	\$0	\$0	\$100,000
Total Project Cost	\$100,000	\$0	\$0	\$0	\$0	\$100,000

Life to Date Expenditures (Project Only)

\$0	\$0	\$0	\$0	\$0	\$0	\$0
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Available Cost Estimate:  
 Thorough Cost Estimate  2011  
 Limited Information  2012  
 Based on Cost of Similar Projects  2013  
 Unsupported  2014  
 2015  
 2016

Were cost estimates confirmed by another source?  
 Are cost estimates based on industry standards?  
 Will city employees be performing any portion of the work?  
 Did you perform a cost/benefit analysis?

How will this project impact city operating expenditures?

Estimated Start Date: 03/01/11  
 Estimated Completion Date: 12/31/11

Department Head Signature

*Edward A. ...*

Prepared By/Phone Ext

JohnLedvina935-7495 GordyGregg/DaveSkorzewski935-7534

2



D2(E Generator)  
\$100,000

**Gregg, Gordon**

**From:** Tarkowski, Thomas  
**Sent:** Monday, March 08, 2010 1:17 PM  
**To:** Gregg, Gordon; Ledvina, John  
**Subject:** 2nd DPS Generator

A ball park figure for removal of existing and installation of new 60 - 75 KW generator and related equipment at the 2nd District police Station would be \$100,000 (equipment & labor). This will allow for some contingency to deal with whatever specifics come up during the design process.

Thomas E. Tarkowski P.E.  
Mechanical Engineer IV  
City of Milwaukee  
DPW - Facilities Development and Management Section  
Zeidler Municipal Building  
841 N. Broadway, Room 602  
Milwaukee, WI 53202  
p - 414-286-3295  
f - 414-288-5907  
c - 414-708-7156

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RECD FROM PAUL RADDITZ

2011 Replacement Equipment Request

Submitted by : Gordon Gregg, Police Building & Fleet Manager  
Facilities Service Section

Dated: 3-1-10

Equipment Requested (be specific): #2 Police District Station

Emergency Generator, 80KW, natural gas fueled, weather tight enclosure, including transfer switch

Cost estimate (attach quotes, literature, etc.):

Approx. \$25,000.00

Age of Equipment to be replaced:

1952 original to building

Condition of equipment to be replaced:

Reliable / however concessions were made to by-pass several minor parts (no longer available)

Problems with equipment (breakdowns, high repair costs, lack of replacement parts, etc.):

Reports attached confirm that the parts needed to maintain the integrity of this equipment are no longer available.

Consequences of not replacing this equipment:

In the event of a power outage, we could experience an interruption in electrical power that would shut the station down for several hours while the portable generator was brought on site and hooked up to the external out board connections.

Potential Grant funding (if known):

Any other Information pertinent to this request:

I recommend looking for funding in 2010 and not waiting for the 2011 budget cycle. The price attached does not figure in the installation costs. It is uncertain at this time if the generator that is currently in the basement will have to be installed outside of the building per code issues. I would recommend having DPW administer this project (7.5 % administration charge plus a 10% contingency fund. The Total approx. cost should be about \$75,000.00

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# Total Energy Systems, LLC

8525 N. 87<sup>th</sup> St., Milwaukee, WI 53224 Phone: 414-357-7900 800-236-6626 Fax: 414-357-6278

## AUTOMATIC TRANSFER SWITCH PROPOSAL 0210BK13

February 25, 2010

ATTN: Electrical Testing Solutions / Steve Hetzel  
REF: Police station

920 ~~585-~~  
521-8657

Total Energy Systems is pleased to quote on your requirements for an electrical generator and transfer switch. We submit the following bill of materials for your consideration. All generators and transfer switches are equipped with the standard items shown on the specification sheet plus the modifications and accessories listed below.

### GENERATOR SET:

(1) Kohler Model 80REZG Gas Fueled Generator Set  
Rated at 80 KW, 100 KVA at 0.8 PF, 120/240 VAC, 3 Phase, 4 Wire, 241 Amps, 60 Hz.

### EXHAUST SYSTEM:

Critical Grade Silencer  
Flexible Stainless Steel Exhaust Connector

### COOLING SYSTEM:

50 Degree Celcius Unit Mounted Radiator  
Thermostat Controlled Engine Coolant Heater  
1.8 KW 120 VAC 1 Phase

### FUEL SYSTEM:

Natural Gas  
Fuel Solenoid Valve  
Flexible Fuel Line  
Primary Line Regulator

*Note: Please refer to Specification Sheet for Gas Requirements IN FULL LOAD*

### CONTROL SYSTEM:

DEC-3+ Controller  
Meters, AC & Engine  
Alarm Horn  
Pre-Alarm Senders  
Electronic Governor  
Dry Contacts  
Common Failure Relay  
Run Relay



**GENERATOR:**

(1) Circuit Breakers,  
*300 Amp, 600 Volt Rated, 3 Pole*  
Alternator Temperature Rise 130 Degrees Celsius

**MOUNTING SYSTEM:**

Integral Vibration Isolation

**STARTING SYSTEM:**

Battery Rack and Cables  
(1) 12 Volt Batteries -12 Volt System, Installed at Startup  
Battery Charger in NEMA 1 Enclosure - for Wall Mounting  
*Float Type, 6 Amps*  
*12 Volt D.C. Output, 120 Volt A.C. Input,*

**AUTOMATIC TRANSFER SWITCH:**

Qty (1) Kohler KSS Series  
*400 Amp, 240 Volt, 3 Pole*  
Open Transition  
NEMA 1 Enclosure  
Exerciser Clock  
In Phase Monitor  
Digital Display / Power Meters  
LED Indicators, Source Normal/Off/Emergency  
Auxiliary Contacts Emergency  
Auxiliary Contacts Normal  
Auto/Manual Retransfer Switch  
Time Delay Override

**MISCELLANEOUS:**

Oil Drain Extension  
Coolant Drain  
Factory Certified Test / Load Report  
UL2200 Listing

**SERVICE ITEMS:**

Lubricating Oil  
Antifreeze - 50/50 Mix  
Start Up Service  
(1) day reserved for inspection, engine prep work and initial engine start up  
Training session will be provided at the conclusion of the system start up.

**WARRANTY:**

Warranty - 1 Year From Start-Up/Commissioning of Gen Set

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**NOTE: OPERATOR & MAINTENANCE MANUALS – 2 Sets**

**PRODUCT SUPPORT & FIELD TESTS:**

- Start-up, if required and is listed as part of the above spec, must be scheduled a minimum of **10 – 14 days** prior to requested **start-up date**. Contact the Service Department at **1.888.548.1400 ex 343** for date and time.
- Contractor shall coordinate and schedule start-up and shall be responsible for ADDITIONAL field service costs if start-up cannot be completed in time allowed as a result of incomplete installation.
- Total Energy System's proposal is based on meeting the functional intent and system requirements of the job description.
- Unless specifically listed in our Bill of Material, equipment not indicated is assumed to be supplied by others. We reserve the right to correct any errors or omissions.

**NET PRICE 60 KW .....\$17,629.00**

**\*\*\*\*Price firm for sixty (60) days\*\*\*\***

**DELIVERY: 8 – 10 Weeks (After Receipt of Approved Submittal) F.O.B. – Jobsite  
(Plus D.O.E. Fuel Surcharge)**

**OPTIONAL:**

Weather Protective Sound Shield Enclosure ..... **ADD \$4,065.00**  
Remote Annunciator Panel ..... **ADD \$820.00**  
Two Hour Load Bank Test ..... **ADD \$810.00**

Thank you again for your inquiry and the opportunity to provide our product. Please call me if you have any questions or if you need any additional information.

Regards,

William Konrad  
Industrial Sales Manager  
TOTAL ENERGY SYSTEMS, LLC  
(414) 357-7900 Extension 309

*TOTAL 23,324.00*



# Total Energy Systems, LLC

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**PLEASE NOTE:**

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- A. Quotation is firm for 60 days
- B. Off-loading, installation, insulation, etc. of all associated equipment by others, unless otherwise stated.
- C. Remote radiator installation and filling of unit is not included.
- D. Fuel piping plans, installation and permitting of tanks or piping, if required, is not included.
- E. Quotation meets functional intent of specifications, either verbal or written, unless otherwise noted.
- F. State and local permits, where applicable, are not included and must be purchased by owner or installing contractor.

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**TERMS AND CONDITIONS:**

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**TERMS:** Payment is net 30 days after invoice date and approved credit terms with Total Energy Systems. If retainers are part of projects purchase, Total Energy Systems must be notified at the time of the order to arrange for acceptance.

**TERMS:** Applicable to this order

Payment is % at time of purchase order, % at submittal drawing approval, % when equipment is delivered/received to site, and % at start-up acceptance of system.

**GENERAL:** Stenographical and clerical errors are subject to correction. Orders resulting from quotations become contracts. Any agreement or other understanding, supplementing or modifying the conditions of the contract resulting from our acceptance of an order will not be mutually binding unless made in writing.

**LIABILITY:** We accept orders under the condition that we are not to be liable for losses or delays caused by strikes, accidents, fires or any other cause beyond our control. Damage resulting from improper storage or handling prior to placing products in service will not be considered our liability. We will not assume any responsibility, expense or liability for repairs made without our written consent. We assume no contingent liability for losses sustained by any purchases through the use of any of the products described.

**RETURNED MATERIAL:** No material may be returned without first obtaining written approval, and no claim will be allowed nor credit given for material returned without such written approval. It is your duty to inspect goods within ten days after receipt.

**SHIPMENT:** Our responsibility ceases with the delivery of merchandise in good order to transportation companies. Claims for shortage or damage in transit must be made by the customer against the carrier. In the absence of definite shipping instructions, we reserve the right to ship all material, upon completion, by any public carrier, which in our opinion is satisfactory.

**TAXES:** State and local sales and use taxes and excise taxes, where applicable, are in addition to quoted prices and will be billed unless the purchaser promptly certifies that the goods are for resale or are otherwise exempt.

**GUARANTEE:** As outlined by appropriate manufacturer.

**CANCELLATION:** All orders cancelled 30 days after submittal approval are subject to cancellation charges of 25% submitted by factory to Total Energy Systems.



Suggested Replacement

Model: **80REZG**

# KOHLER POWER SYSTEMS

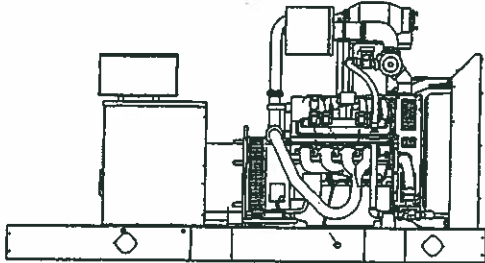
190-600 V

Gas



## Ratings Range

Standby:	kW kVA	60 Hz	50 Hz
		61-81 61-101	55-73 55-87



## Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- The 60 Hz generator set engine is certified by the Environmental Protection Agency (EPA) to conform to the New Source Performance Standard (NSPS) for stationary spark-ignited emissions.
- A one-year limited warranty covers all systems and components. Two- and five-year extended warranties are also available.
- Alternator features:
  - The unique Fast-Response™ II excitation system delivers excellent voltage response and short-circuit capability using a permanent magnet (PM)-excited alternator.
  - The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
  - Controllers are available for all applications. See controller features inside.
  - The electronic, isochronous governor incorporates an integrated drive-by-wire throttle body actuator delivering precise frequency regulation.

## Generator Set Ratings

Alternator	Voltage	Ph	Hz	Natural Gas 130°C Rise		LP Gas 130°C Rise	
				Standby Rating		Standby Rating	
				kW/kVA	Amps	kW/kVA	Amps
4S7	120/208	3	60	80/100	278	80/100	278
	127/220	3	60	80/100	262	80/100	262
	120/240	3	60	80/100	241	80/100	241
	120/240	1	60	61/61	254	61/61	254
	139/240	3	60	81/101	244	81/101	244
	220/380	3	60	75/94	142	75/94	142
	277/480	3	60	81/101	122	81/101	122
	347/600	3	60	81/101	97	81/101	97
	110/190	3	50	66/82	249	70/87	264
	115/200	3	50	66/83	240	70/87	251
	120/208	3	50	66/83	230	70/87	241
	110/220	1	50	55/55	250	55/55	250
	110/220	3	50	66/83	218	66/83	218
220/380	3	50	66/82	125	70/87	132	
230/400	3	50	66/83	120	70/87	126	
240/416	3	50	66/83	115	70/87	121	
4V9	120/240	1	60	80/80	333	80/80	333
	110/220	1	50	65/65	295	73/73	332

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. Standby Ratings: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3048/1, BS 5514, AS 2789, and DIN 6271. Prime Power Ratings: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-3048/1, overload power in accordance with ISO-3048/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult the factory. Obtain the technical information bulletin (TIB-101) on ratings guidelines for the complete ratings definitions. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. GENERAL GUIDELINES FOR DERATION: Altitude: Derate 1.3% per 100 m (328 ft.) elevation above 200 m (656 ft.). Temperature: Derate 3.0% per 10°C (18°F) temperature above 25°C (77°F). For units having enclosures with enclosed silencers, add 10°C (18°F) to the ambient temperature. For dual fuel engines, use the natural gas ratings for both the primary and secondary fuels.

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## Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet
Leads: quantity, type	
4S7	12, Reconnectable
4V9	4, 110-120/220-240
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material	Class H
Temperature rise	130°C, Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Voltage regulation, no-load to full-load	
Permanent magnet (PM) alternator	±2% Average
550 controller (with 0.5% drift due to temperature variation)	3-Phase Sensing, ±0.25%
Unbalanced load capability	100% of Rated Standby Current
One-step load acceptance	100% of Rating
Peak motor starting kVA:	(35% dip for voltages below)
480 V      4S7 (12 lead)	270 (60 Hz), 190 (50 Hz)
240 V      4V9 (4 lead)	246 (60 Hz), 213 (50 Hz)

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Vacuum-impregnated windings with fungus-resistant epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.
- Fast-Response™ II brushless alternator with brushless exciter for excellent load response.

## Application Data

### Engine

Engine Specifications	60 Hz	50 Hz
Manufacturer	General Motors	
Engine: model, type	Industrial Powertrain Vortec 8.1 L, 4-Cycle Natural Aspiration	
Cylinder arrangement	V-8	
Displacement, L (cu. in.)	8.1 (496)	
Bore and stroke, mm (in.)	108 x 111 (4.25 x 4.37)	
Compression ratio	9.1:1	
Piston speed, m/min. (ft./min.)	399 (1311)	332 (1092)
Main bearings: quantity, type	Alum. Lead Silicon Alloy	
Rated rpm	1800	1500
Max. power at rated rpm, kW (HP)	112 (150)	92 (123)
Cylinder head material	Cast Iron	
Piston type and material	Strutless Flat Top, Hypereutectic Cast Alum.	
Crankshaft material	Cast Nodular Undercut Rolled Fillet	
Valve (exhaust) material	Int.-A193 Exh. Inconel	
Governor type	Electronic	
Frequency regulation, no-load to full-load	Isochronous	
Frequency regulation, steady state	±0.5%	
Frequency	Fixed	
Air cleaner type, all models	Dry	

### Engine Electrical

Engine Electrical System	60 Hz	50 Hz
Ignition system	Individual Coil Near Plug Ignition	
Battery charging alternator:		
Ground (negative/positive)	Negative	
Volts (DC)	12	
Ampere rating	70	
Starter motor rated voltage (DC)	12	
Battery, recommended cold cranking amps (CCA):		
Qty., rating for -18°C (0°F)	One, 630	
Battery voltage (DC)	12	

### Fuel

Fuel System	60 Hz	50 Hz
Fuel type	LP Gas, Natural Gas, or Dual Fuel	
Fuel supply line inlet	1 NPTF	
Natural gas/LPG fuel supply pressure, measured at the generator set fuel inlet downstream of any fuel system equipment accessories, kPa (in. H <sub>2</sub> O)	1.74-2.74 (7-11)	

Fuel Composition Limits *	Nat. Gas	LP Gas
Methane, % by volume	90 min.	—
Ethane, % by volume	4.0 max.	—
Propane, % by volume	1.0 max.	85 min.
Propene, % by volume	0.1 max.	5.0 max.
C <sub>4</sub> and higher, % by volume	0.3 max.	2.5 max.
Sulfur, ppm mass	25 max.	
Lower heating value, kJ/m <sup>3</sup> (Btu/ft <sup>3</sup> ), min.	26.6 (890)	67.5 (2260)

\* Fuels with other compositions may be acceptable. If your fuel is outside the listed specifications, contact your local distributor for further analysis and advice.

### Exhaust

Exhaust System	60 Hz	50 Hz
Exhaust manifold type	Dry	
Exhaust flow at rated kW, m <sup>3</sup> /min. (cfm)	17.5 (620)	13.8 (490)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	677 (1250)	
Maximum allowable back pressure, kPa (in. Hg)	10.2 (3.0)	
Exhaust outlet size at engine hookup, mm (in.)	Flanged Outlet at Catalyst see ADV drawing	

## Application Data

### Lubrication

Lubricating System	60 Hz	50 Hz
Type	Full Pressure	
Oil pan capacity, L (qt.)	7.6 (8.0)	
Oil pan capacity with filter, L (qt.)	8.0 (8.5)	
Oil filter: quantity, type	1, Cartridge	

### Cooling

Radiator System	60 Hz	50 Hz
Ambient temperature, °C (°F)	50 (122)	
Engine jacket water capacity, L (gal.)	10.0 (2.6)	
Radiator system capacity, including engine, L (gal.)	25.7 (6.8)	
Engine jacket water flow, Lpm (gpm)	125 (33)	102 (27)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	62 (3540)	54 (3080)
Water pump type	Centrifugal	
Fan diameter, including blades, mm (in.)	599 (23.6)	
Fan, kWm (HP)	6.7 (9.0)	3.7 (5.0)
Max. restriction of cooling air, Intake and discharge side of radiator, kPa (in. H <sub>2</sub> O)	0.125 (0.5)	

### Operation Requirements

Air Requirements	60 Hz	50 Hz
Radiator-cooled cooling air, m <sup>3</sup> /min. (scfm)†	198 (7000)	153 (5400)
Combustion air, m <sup>3</sup> /min. (cfm)	5.7 (200)	4.3 (150)
Heat rejected to ambient air:		
Engine, kW (Btu/min.)	40 (2300)	32 (1820)
Alternator, kW (Btu/min.)	14.5 (825)	13.2 (750)

† Air density = 1.20 kg/m<sup>3</sup> (0.075 lbm/ft<sup>3</sup>)

Fuel Consumption	60 Hz	50 Hz
Natural Gas, m <sup>3</sup> /hr. (cfh) at % load‡	Standby Ratings	
100%	28.7 (1012)	24.7 (873)
75%	23.5 (831)	19.3 (680)
50%	18.9 (667)	14.1 (496)
25%	12.4 (437)	9.5 (337)
0%	7.3 (257)	5.6 (198)

LP Gas, m <sup>3</sup> /hr. (cfh) at % load	60 Hz	50 Hz
100%	12.0 (425)	9.1 (321)
75%	9.8 (345)	7.3 (257)
50%	7.4 (261)	5.6 (200)
25%	5.0 (177)	4.0 (142)
0%	2.9 (104)	2.2 (79)

‡ Fuel consumption is based on 1015 Btu/standard cu. ft. natural gas.

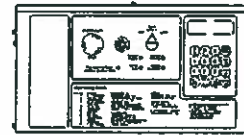
LP vapor conversion factors:

8.58 ft.<sup>3</sup> = 1 lb.

0.535 m<sup>3</sup> = 1 kg.

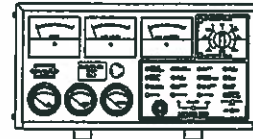
36.39 ft.<sup>3</sup> = 1 gal.

## Controllers



#### Decision-Maker® 550 Controller

Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Alternator safeguard circuit protection. 12- or 24-volt engine electrical system capability. Remote start, remote annunciation, and remote communication options. Refer to G6-46 for additional controller features and accessories.



#### Decision-Maker® 3+, 16-Light Controller

Audiovisual annunciation with NFPA 110 Level 1 capability. Microprocessor logic, AC meters, and engine gauge features. 12- or 24-volt engine electrical system capability. Remote start, prime power, and remote annunciation options. Refer to G6-30 for additional controller features and accessories.

KOHLER CO., Kohler, Wisconsin 53044 USA  
 Phone 920-565-3381, Fax 920-459-1646  
 For the nearest sales and service outlet in the  
 US and Canada, phone 1-800-544-2444  
 KohlerPower.com

Kohler Power Systems  
 Asia Pacific Headquarters  
 7 Jurong Pier Road  
 Singapore 619159  
 Phone (65) 6264-6422, Fax (65) 6264-6455

### Additional Standard Features

- Alternator Protection (standard with 550 controller)
- Battery Rack and Cables
- Electronic, Isochronous Governor
- Gas Fuel System (includes fuel mixer, electronic secondary gas regulator, gas solenoid valve, and flexible fuel line between the engine and the skid-mounted fuel system components)
- Integral Vibration Isolation
- Local Emergency Stop
- Oil Drain Extension
- Operation and Installation Literature
- Three-Way Exhaust Catalyst

### Available Options

- Approvals and Listings**
  - CSA Approval
  - UL 2200 Listing
- Enclosed Unit**
  - Sound Enclosure (with enclosed critical silencer)
  - Weather Enclosure (with enclosed critical silencer)
- Open Unit**
  - Exhaust Silencer, Critical (kit: PA-324470)
  - Flexible Exhaust Connector, Stainless Steel
- Fuel System**
  - Dual Fuel NG/LPG (automatic changeover)
  - Flexible Fuel Line (required when the generator set skid is spring mounted)
  - Gas Filter
  - Secondary Gas Solenoid Valve
- Controller**
  - Common Failure Relay
  - Communication Products and PC Software (550 controller only)
  - Customer Connection
  - Dry Contact (isolated alarm)
  - Engine Prealarm Sender
  - Remote Annunciator Panel
  - Remote Audiovisual Alarm Panel
  - Remote Emergency Stop
  - Run Relay
- Cooling System**
  - Block Heater [recommended for ambient temperatures below 10°C (50°F)]
- Electrical System**
  - Alternator Strip Heater
  - Battery
  - Battery Charger, Equalize/Float Type
  - Battery Heater
  - Line Circuit Breaker (NEMA1 enclosure)
  - Line Circuit Breaker with Shunt Trip (NEMA1 enclosure)
  - Safeguard Breaker (available with 16-light controller)

### Miscellaneous

- Air Cleaner Restrictor Indicator
- Engine Fluids (oil and coolant) Added
- Rated Power Factor Testing
- Rodent Guards

### Literature

- General Maintenance
- NFPA 110
- Overhaul
- Production

### Warranty

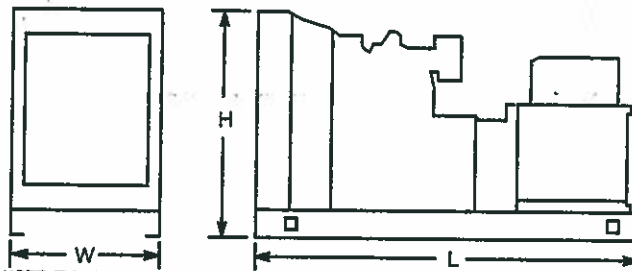
- 2-Year Basic
- 2-Year Prime
- 5-Year Basic
- 5-Year Comprehensive

### Other Options

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

### Dimensions and Weights

Overall Size, L x W x H, mm (in.) :  
 Wide Skid 2800 x 1120 x 1507 (110.2 x 44.1 x 59.3)  
 Narrow Skid 2800 x 864 x 1507 (110.2 x 34.0 x 59.3)  
 Weight (radiator model), wet, kg (lb.): 1244 (2744)

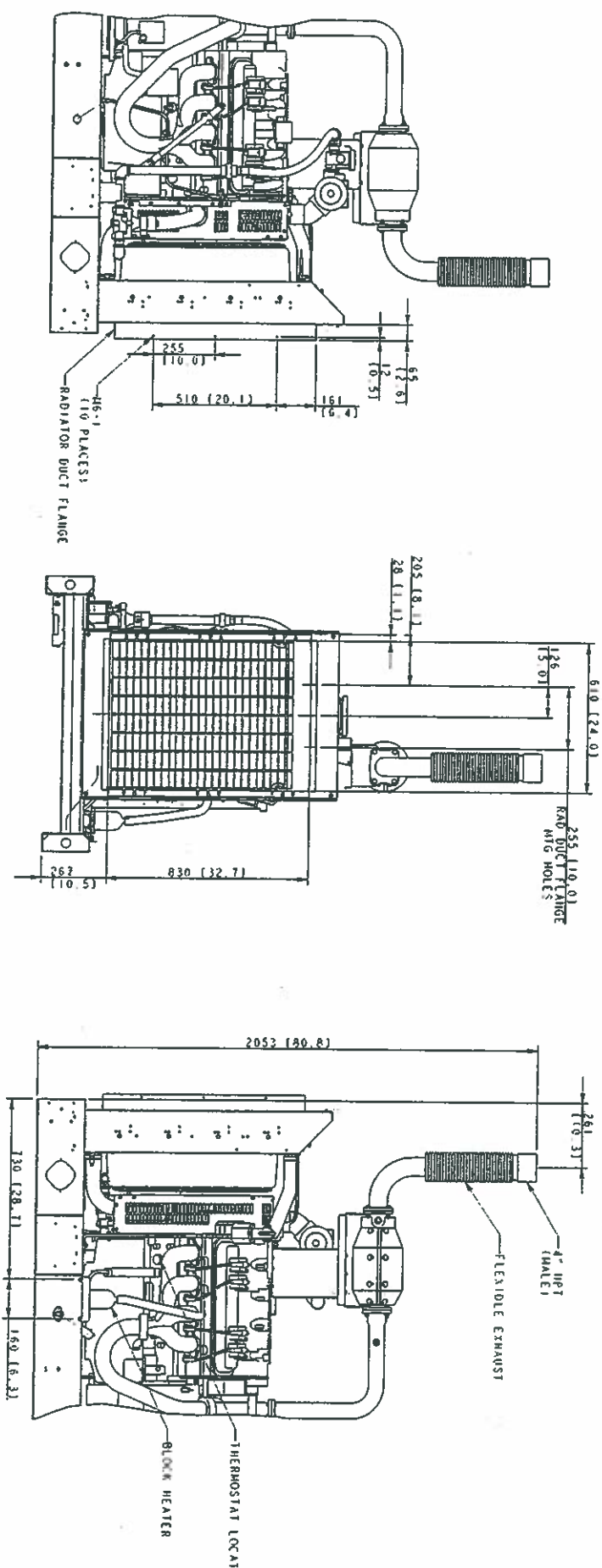


NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

**DISTRIBUTED BY:**



10 MAR 10 21 30

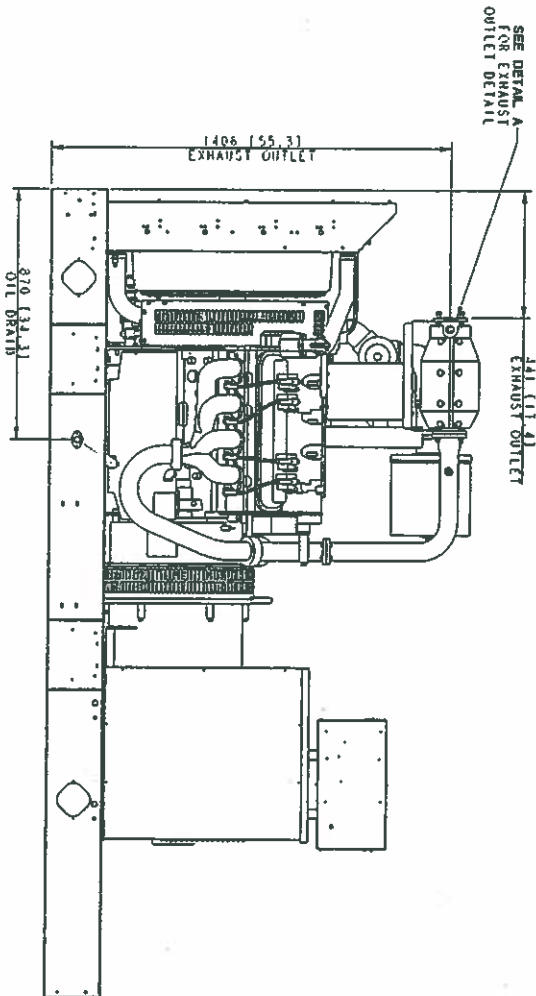
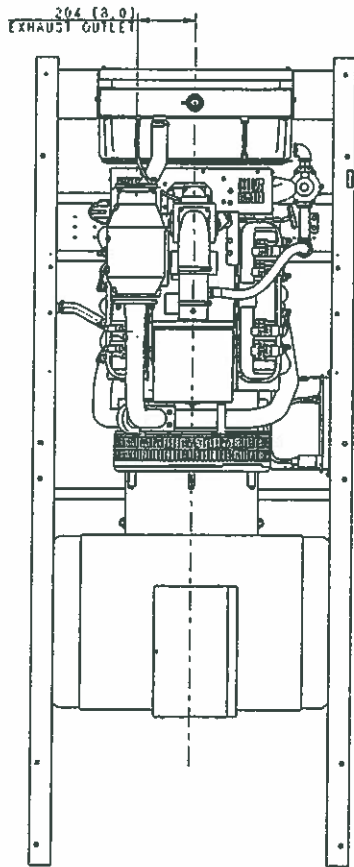


80 MODEL 457/4V9  
 100 MODEL 459/4S13/4V11  
 IMPROVED MOTOR STARTING (MS) RECONNECTABLE  
 & 800V ALTERNATORS  
 8 LITER OHV 2009 CM3 SYSTEMS

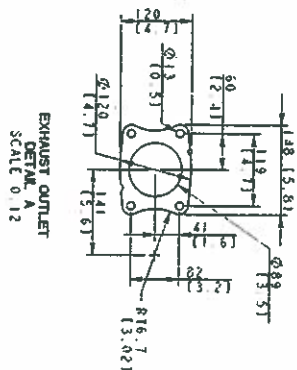
REV	DATE	BY	CHKD	DESCRIPTION
1	3-27-93			NEW DRAWING (8/135-1)
2	3-27-93			REVISIONS
3	3-27-93			REVISIONS
4	3-27-93			REVISIONS
5	3-27-93			REVISIONS
6	3-27-93			REVISIONS
7	3-27-93			REVISIONS
8	3-27-93			REVISIONS
9	3-27-93			REVISIONS
10	3-27-93			REVISIONS

KOHLER CO. METRIC  
 80/100 MODEL ACCESSORY  
 DIMENSION PRINT  
 ADV-7654

ENGLISH STANDARD EQUIVALENT



SEE DETAIL A  
FOR EXHAUST  
GUTLET DETAIL



EXHAUST GUTLET  
DETAIL A  
SCALE 0.12

80 MODEL 457/499  
100 MODEL 459/493/494  
IMPROVED MOTOR STARTING (FIRST RECONNECTABLE  
1.500V ALTERNATORS  
3.1 LITER GM 2009 EMISSIONS

DIMENSIONS IN ( ) ARE ENGS  
STANDARD EQUIVALENTS

REV	DATE	BY	CHKD	DESCRIPTION
1	3-22-98			NEW DRAWING (02121)
2				
3				
4				
5				
6				
7				
8				

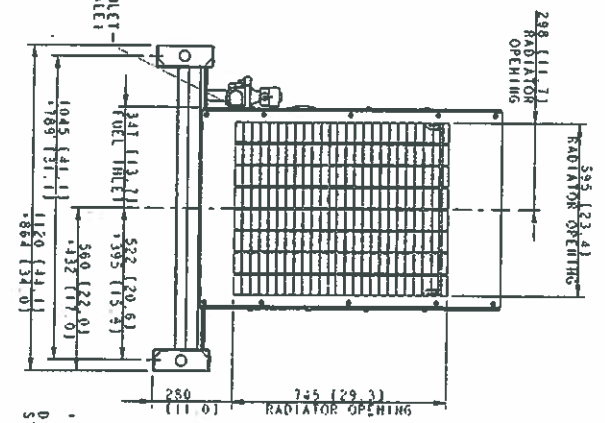
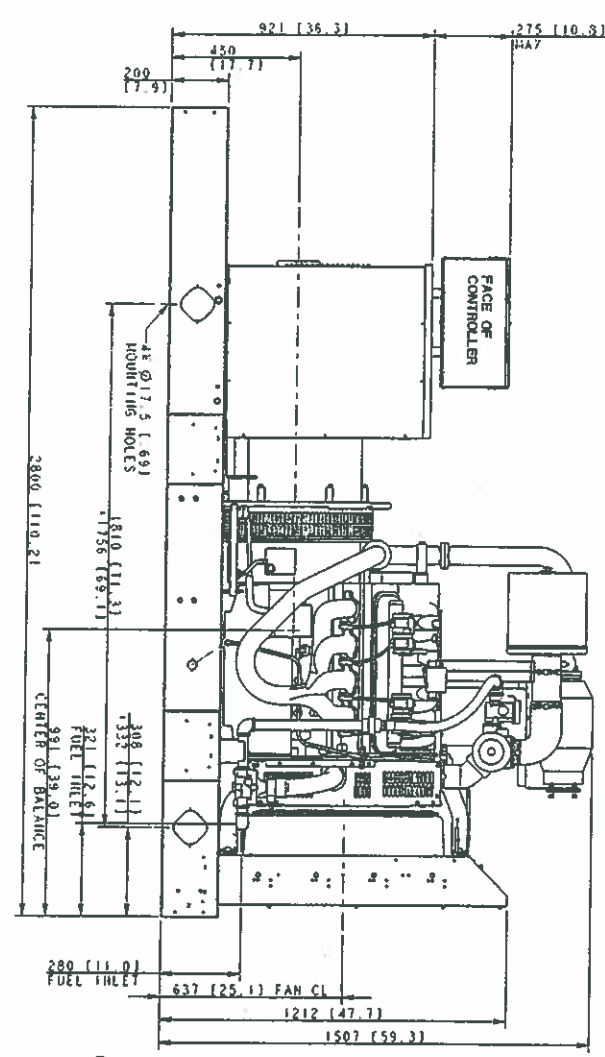
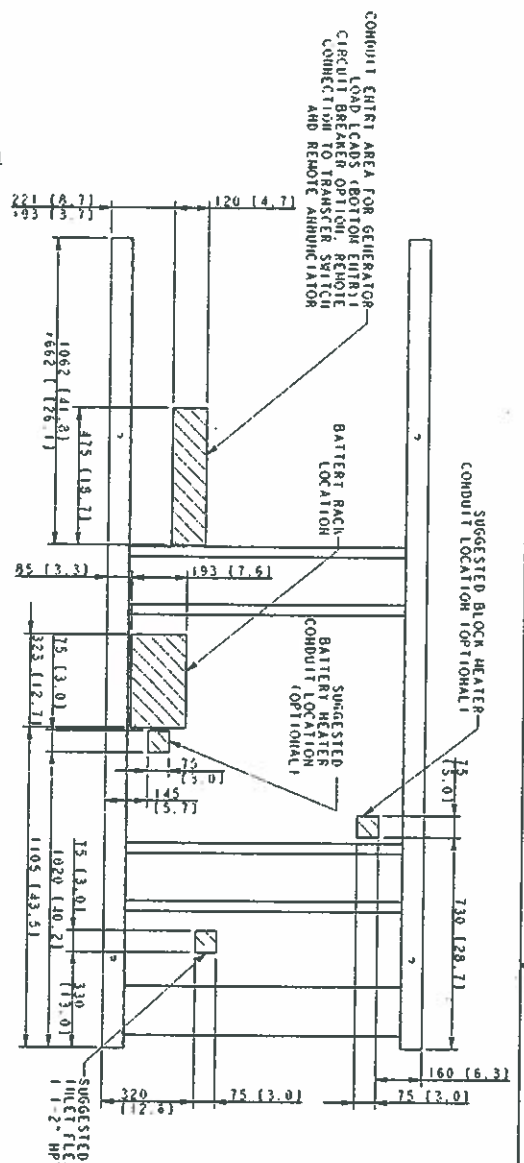
**KOHLER CO. DIECAST**

DIMENSION PRINT  
80/100 MODEL

ADV-7653

REMOVED

10 MAR 10 21 30



GEHSET WEIGHT  
(LESS ACCESSORIES)  
MAX WEIGHT (NET): 1244 KG (2744 LB)

80 MODEL 4377AV9  
100 MODEL 4387AV11  
RECONNECTABLE  
IMPROVED MOTOR STARTING (INS)  
8.1 LITER OR 209 CUBIC INCHES

REV	DATE	BY	CHKD	DESCRIPTION
1	5-24-01	MD	MD	REVISED TO SHOW REVISION 1179

DIMENSION PRINT  
 80/100 MODEL  
 ADV-7653



# GENERATOR MAINTENANCE REPORT

**Prepared For:**  
**Milwaukee Police Department**  
***District 2***  
**245 W. Lincoln**  
**Milwaukee, WI**

10 MAR 10 21 30

RECEIVED

**WORK COMPLETED:**  
**2/2/2010**



ELECTRICAL  
TESTING  
SOLUTIONS

**Field Service Report**  
Milwaukee Police Dept  
**District 2**

2515 Lamplight Ct.  
Oshkosh, WI 54904  
p920.420.2986 f920.235.7136  
[www.electricaltestingsolutions.com](http://www.electricaltestingsolutions.com)

**Trip Dates:**

- Tuesday, February 2, 2010

**Summary:**

- ETS was dispatched to the MPD District 2 Site to address a faulty starter on their emergency generator (located in the basement of the facilities).

**Site Address:**

245 W. Lincoln  
Milwaukee, WI

**Personnel:**

- ETS (Generator Technician): Randy Schroeder (920) 527-9135
- Milwaukee Police Dept Maintenance Contact Person: Paul Radditz
- ETS Sales Contact: Steve Hetzel (920) 527-8657

### Generator Deficiency:

On Tuesday, 2/2/2010, I arrived at the Milwaukee Police Department District 2 Facility and was escorted to the emergency generator in the basement. I inspected the Kohler model 70R52129039A28 gen-set with a Chrysler 440 V-8 engine. The complaint that was issued stated that the engine would not start, and that a "grinding" sound could be heard when a start was attempted.

Upon the first starting attempt, it was noted that the starter bendix did not fully engage with the flywheel ring gear. Normally, centrifugal force pushes against the retaining spring, and allows the bendix to move out and mesh with the ring gear. On occasion, however, the retaining spring becomes dirty over time, preventing a full stroke of the bendix. Such was the case in this instance.

The starter was removed from the engine block, and the bendix spring was cleaned and sprayed with lubricating oil. It was then worked back and forth several times to verify free movement. The starter was then reinstalled and tested. I started the engine 10 times, each time successful.

It was observed that there was some wear on the bendix gear teeth from attempted starts where it did not mesh properly with the ring gear. An attempt was made to find a replacement starter, but due to the age of the engine, a replacement could not be immediately located. Therefore, the existing starter was simply cleaned and reinstalled.

It should be noted that the date of manufacture of this engine was 1973. The engine hour meter indicates that on the average, this gen-set has been run about 30 minutes per month since its installation.

However, it should also be noted that replacement parts for this gen-set are difficult, if not impossible to obtain, depending upon where the problem is. Kohler Company has demonstrated that they are not very helpful with servicing this obsolete part. A new gen-set is recommended if the service that this gen-set provides is considered critical in the event of a power outage.

RECEIVED

10 MAR 10 21 30





# GENERATOR MAINTENANCE REPORT

**Prepared For:**  
**Milwaukee Police Department**  
***District 2***  
**245 W. Lincoln**  
**Milwaukee, WI**

**WORK COMPLETED:**  
**1/15/2010**

RECEIVED

10 MAR 10 21 30



**Field Service Report**  
**Milwaukee Police Dept**  
**District 2**

2515 Lamplight Ct.  
Oshkosh, WI 54904  
p920.420.2986 f920.235.7136  
[www.electricaltestingsolutions.com](http://www.electricaltestingsolutions.com)

**Trip Dates:**

- Friday, January 15, 2010

**Summary:**

- ETS was dispatched to the MPD District 2 Site to address a coolant leak on their emergency generator (located in the basement of the facilities).

**Site Address:**

245 W. Lincoln  
Milwaukee, WI

**Personnel:**

- ETS (Generator Technician): Randy Schroeder (920) 527-9135
- Milwaukee Police Dept Maintenance Contact Person: Paul Radditz
- ETS Sales Contact: Steve Hetzel (920) 527-8657

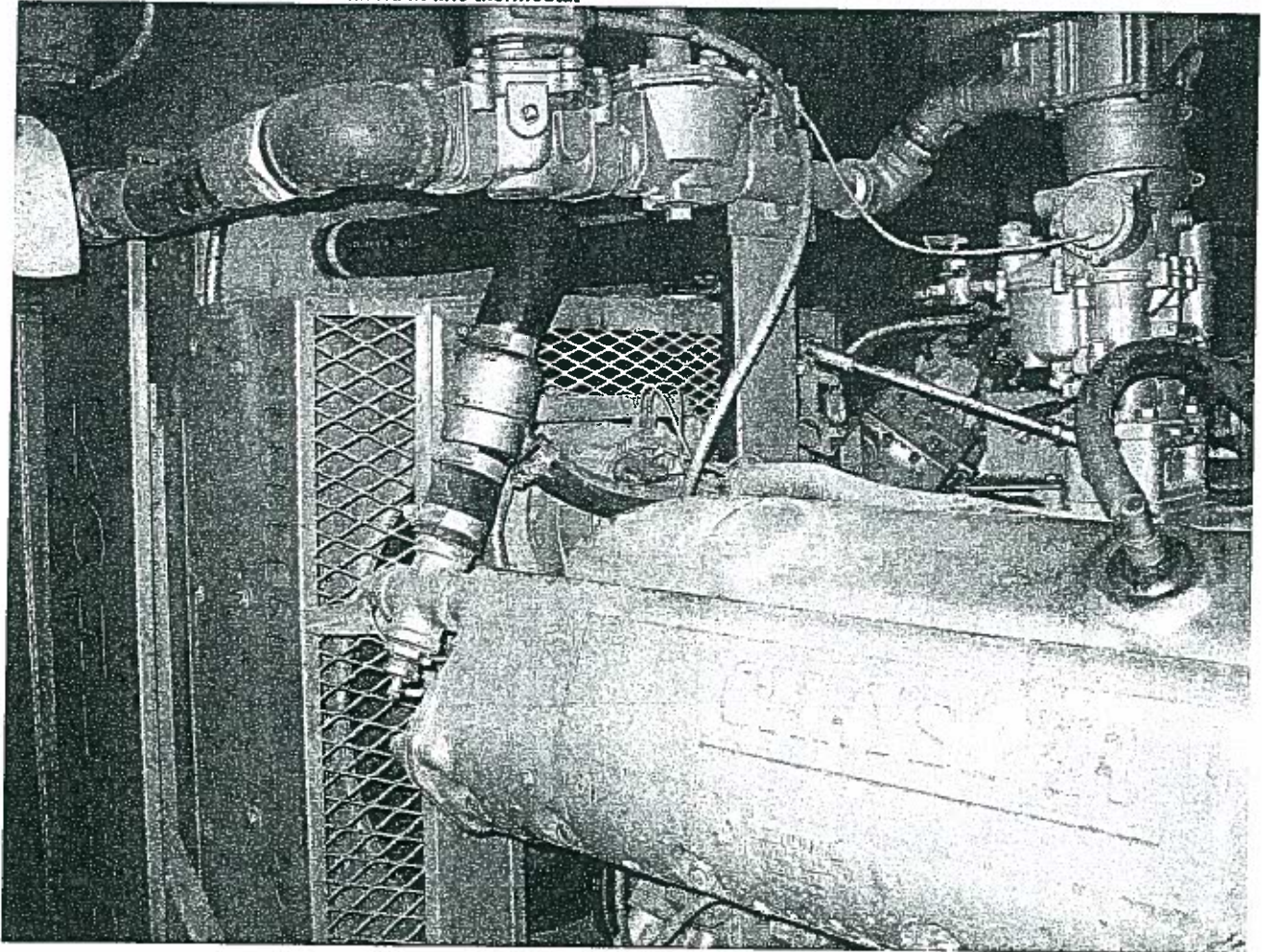
## Generator Deficiency:

On Friday, 1/15/2010, I arrived at the Milwaukee Police Department District 2 Facility and was escorted to the emergency generator in the basement. I inspected the Kohler model 70R52129039A28 gen-set with a Chrysler 440 V-8 engine. This engine has 3 thermostats:

- 1) The main engine block thermostat, which is located in the front-center of the intake manifold (as any typical car engine)
- 2) The right-hand exhaust manifold (in-line thermostat)
- 3) The left-hand exhaust manifold (in-line thermostat)

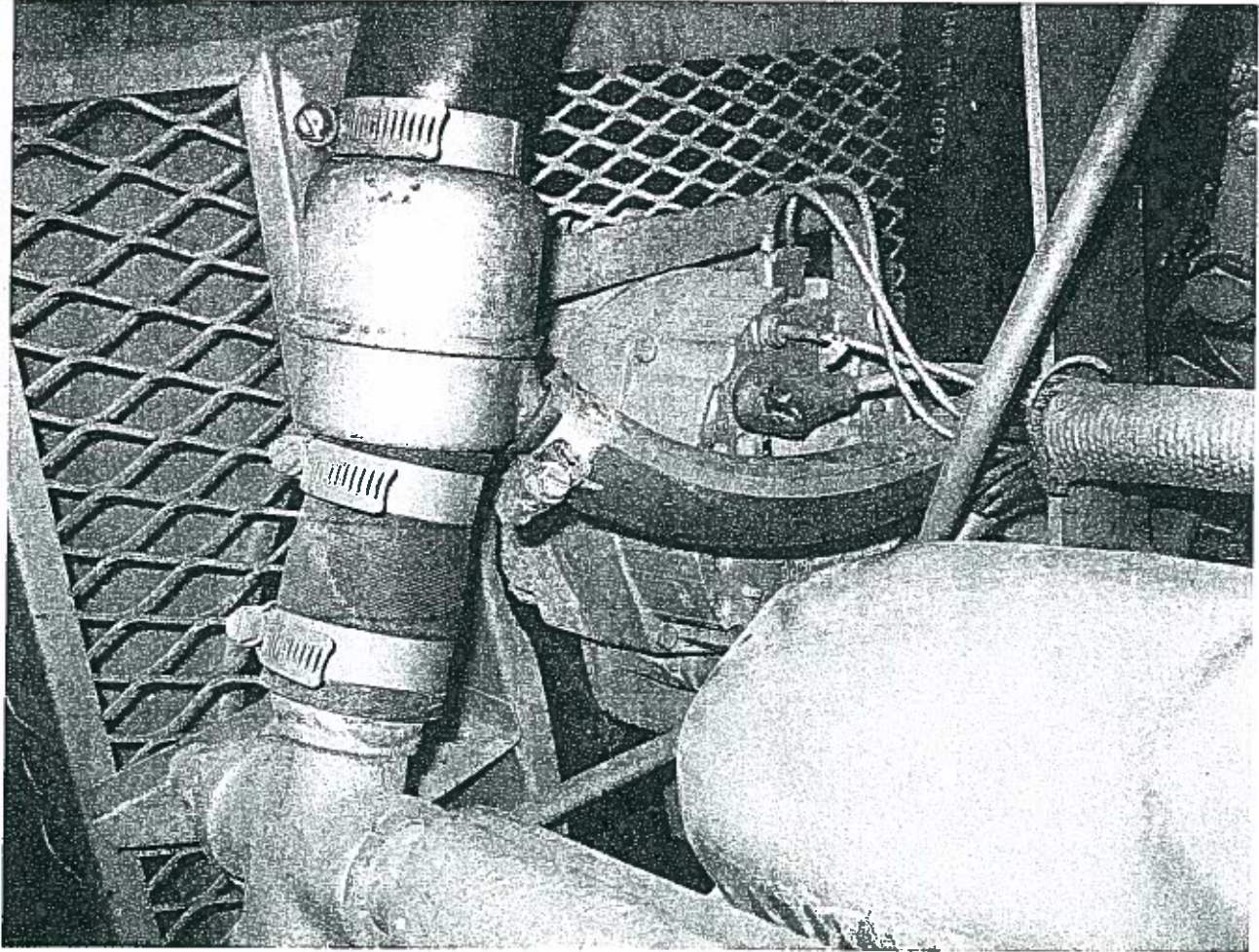
This engine is similar to a marine engine, in that the exhaust manifolds have a water jacket built into them. Coolant flows through each exhaust manifold to keep the exhaust temperature lower. **The source of the coolant leak was the right-hand exhaust manifold thermostat.**

Photo of the left-hand exhaust manifold in-line thermostat



REMOVED  
10 MAR 10 21 30

Close-Up Photo of the left-hand exhaust manifold in-line thermostat



The exhaust manifold thermostats have a 1 1/2" flow-through on each end, with a 5/8" by-pass hose connected to it. At first, it appeared that the 5/8" by-pass hose was the source of the leak, as it was old and cracked severely directly under its hose clamp. However, when I disconnected this hose from the 5/8" nipple, the entire nipple pulled out of the thermostat canister.



Attempts were made to find a replacement thermostat through *Kohler Company*, and also their Green Bay distributor, *Total Energy Systems*. Both sources indicated that the product has been obsoleted, and replacement parts for this engine are no longer carried on their books. The thermostat was then taken to several automotive service retailers hoping that someone could identify the make and model of this thermostat, again without success. Finally, efforts were made to repair the damaged thermostat, but these efforts failed also.



As a last resort, in order to get the engine up and running, the thermostat was completely by-passed, so that the exhaust manifold is provided with maximum cooling at all times. The thermostat on the left-hand exhaust manifold was also removed so that the engine temperature remained balanced across the block.

After these by-pass procedures were performed, the gen-set was run at no-load for 30 minutes to verify proper performance. The engine performed well with no coolant leaks. The temperature gauge read approximately 170 deg.

It should be noted that the date of manufacture of this engine was 1973. The engine hour meter indicates that on the average, this gen-set has been run about 30 minutes per month since its installation. This should be considered a very low-risk alteration to this engine for such infrequent usage, especially considering that it is located in a temperature-controlled room.

However, it should also be noted that replacement parts for this gen-set are difficult, if not impossible to obtain, depending upon where the problem is. *Kohler Company* has demonstrated that they are not very helpful with servicing this obsolete part. A new gen-set is recommended if the service that this gen-set provides is considered critical in the event of a power outage.

Verify 1973 date

10 MAR 19 21 30  
10 MAR 19 21 30



# Capital Improvement Request Form Part I

Project/Program Title: Tiburon RMS VMP Upgrade Requesting Department: Police

Proposed By/Phone Ext: JohnLedvina9357495PeterGnas9357410 Department Head Signature: *[Signature]*

Account No: \_\_\_\_\_

A) Department Priority 2 of 10 Useful Life 4 Years Level of Need  Essential  Important  Desired

Type of Project  New  Replacement  Repair Project/Program Scope  Fully Defined  Partially Defined

On-Going Program

B) Description

**Infrastructure**

Street Related  Sewer  Water  Street Lighting  Communications  Recreation

Sidewalks  Alleys  Bridge  Environmental  Port  Parking

**Building**

Roof  Windows  HVAC  Electrical  Restroom  Security  Exterior  Entire Facility

ADA  Office Remodeling  New Building  Elevators  Garage  Mechanical

**Miscellaneous Development**

Economic  Information Systems  Equipment  Other \_\_\_\_\_

C) Project/Program Duration

One Year  Yes  No

On-Going Program  Yes  No

Multi-Year  Yes  No Number of Years \_\_\_\_\_

D) Total Positions \_\_\_\_\_ Total FTEs \_\_\_\_\_

Position Title	No. of Positions	FTEs	Salaries \$
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

E) In Six Year Capital Improvement Plan

Yes  2009-2014  2010-2015  Yes, Modified  New Request

F) Project/Program Justification

The current implemented RMSTI, ARS, WebQuery, Property, WIBRS and ARS Mobile are version 7.4 and the CMS system is version 7.4.2 while the current version supported by Tiburon is 7.6. In order to remain within the terms of the Version Management Program and standard support, it is essential that MPD upgrade these systems. In addition, The Tiburon Systems and its components are running on a Oracle 8.2c which is multiple versions past general support as well, Tiburon is currently developing systems in the Microsoft SQL Server platform. The systems and hardware components are outside of their extended warranty and are mostly outdated and near capacity with no expandability available. The Tiburon upgrade will provide enhancements in the area of systems performance, with the newer technology hardware and as well, will provide greater flexibility in reporting and analysis with the change in database platforms. Key enhancements have been made in the client which provide greater details as well.

G) Additional Comments

Tiburon has provided a detailed proposal including scope, statement of work and cost estimates with the exception of hardware.

# Capital Improvement Request Part II

Requesting Department: Police

Project/Program Title: Tiburon RMS VMP Upgrade

Account No: \_\_\_\_\_

Year	Tax Levy/Borrowing	Grant & Aid	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010						
2011 Budget Request	\$354,000					\$354,000
2012 Projection						\$0
2013 Projection						\$0
2014 Projection						\$0
2015 Projection						\$0
2016 Projection						\$0
<b>Total Six Year Cost</b>	\$354,000	\$0				\$0
<b>Total Project Cost</b>	\$354,000	\$0	\$0	\$0	\$0	\$354,000
	\$0	\$0	\$0	\$0	\$0	\$0

Life to Date Expenditures (Project Only)

Available Cost Estimate:

Thorough Cost Estimate  2011  2012  2013  2014  2015  2016

Limited Information  2011  2012  2013  2014  2015  2016

Based on Cost of Similar Projects  2011  2012  2013  2014  2015  2016

Unsupported  2011  2012  2013  2014  2015  2016

Were cost estimates confirmed by another source?  Yes  No  Uncertain

Are cost estimates based on industry standards?  Yes  No  Uncertain

Will city employees be performing any portion of the work?  Yes  No  Uncertain

Did you perform a cost/benefit analysis?  Yes  No  Uncertain

How will this project impact city operating expenditures?

Increase  Decrease  None

Estimated Start Date: 02/01/11

Estimated Completion Date: 04/01/11

Department Head Signature: 

Prepared By/Phone Ext: Peter Gnass / 935-7410 John Ledvina / 935-7495





January 14, 2010

Debra Lewis, Director – IT Services  
Milwaukee Police Department  
2333 North 49th Street  
Milwaukee, WI 53210

Subject: Enhancement Proposal (EP)-277731: Additional Services for the LawRECORDS and JailRECORDS Version Management Program (VMP) Upgrade

Reference: Contract for Services, Vendor Contract Number B0000001917, Date of Award September 24, 2002, System Implementation Agreement between the City of Milwaukee and Tiburon, Inc., Effective November 4, 2002

Dear Director Lewis:

Tiburon, Inc. is pleased to present this Enhancement Proposal for the additional services required by Milwaukee PD to make their system Version Management Program (VMP) Upgrade ready.

This Enhancement Proposal includes the basic services required to upgrade Milwaukee PD.

Included applications/interfaces:

LawRECORDS (formerly known as RMS/Ti) from version 7.4.1 to the latest released version (currently 7.6), including ARS (LAN and Mobile versions), WebQuery, Prop Room/Barcode, WIBRS  
JailRECORDS (formerly known as CMS/Ti) from version 7.4.2 to the latest released version (currently 7.6)

Time Synchronization

Mugshot interface from the Jail or Booking Screen  
Commissary (Swanson) interface with JailRECORDS  
Identix Fingerprint interface

NOTE: Geographic Presentation & Analysis (GPA) is no longer supported in version 7.6. Once the upgrade is complete, GPA will no longer work.

The costs for the services and software to provide a version upgrade of baseline products are included in the annual maintenance fee.

Additional costs will be necessary to upgrade custom interfaces, purchase additional hardware and purchase additional training services.

Custom Interfaces:

PeopleSoft Upload  
Morpho Fingerprint  
Intellinetics Imaging  
Mugshot Imageware  
Autocite interface

Training Services (Recommendation):

- Three (3) days training on the upgrade changes to the LawRecords system to be designed jointly by the client and the training/project team.
- Two (2) days training on the upgrade changes to the JailRecords system to be designed jointly by the client and the training/project team.
- These 5 days of training are to occur in 1 trip.

Please carefully review all software which is ancillary to your Tiburon-provided systems for items that may require upgrading or modifying for specific operations.

Scope Description

Please refer to Attachment A - Scope Description.

Price Description

Total \$64,311

- 1) The Tiburon Annual Maintenance amount will not increase as a result of this Enhancement Proposal.

Completion Criteria

The VMP upgrade will be complete upon cutover of the applications to production operation.

Terms and Conditions

- 1) The work described herein will be scheduled to commence at a mutually agreeable date after the Client's acceptance of this Enhancement Proposal.
- 2) The following are not included in this Enhancement Proposal:
  - Crystal Reports, Oracle, SQL or other third-party product upgrades or modifications.
  - Client-specific documentation.
  - Modifications to any third-party systems that may be used by Client to access the applications.
  - Migration of existing customizations (baseline applications of the versions are to be deployed).
  - Any new application modules. Only those licensed modules contained in the client's current system will be upgraded.
  - Services to uncrate/box any new servers or install/configure them into racks.
  - LawRECORDS Logging.
- 3) There is no warranty period. Maintenance continues for all systems throughout the entire VMP process.
- 4) Any interfaces will be upgraded/ to the baseline versions, except those identified as custom interfaces that will be moved at a cost to the client.

Debra Lewis, Director – IT Services  
Milwaukee Police Department  
Enhancement Proposal (EP)-277731: Additional Services for the LawRECORDS and JailRECORDS  
Version Management Program (VMP) Upgrade  
January 14, 2010  
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- 5) This fixed price Enhancement Proposal is valid unless modified by Tiburon in writing prior to Client acceptance of the Enhancement Proposal; otherwise, this Enhancement Proposal will expire on June 30, 2010.
- 6) The terms and conditions of this Enhancement Proposal and the Agreement referenced herein prevail regardless of any conflicting or additional terms on any Purchase Order or other correspondence. Any contingencies or additional terms obtained on any Purchase Order are not binding upon Tiburon. All Purchase Orders are subject to approval and acceptance by Tiburon.
- 7) By the Client's acceptance of this Enhancement Proposal in the signature blocks provided below, the Client is authorizing Tiburon to proceed with the work described herein and confirms funding will be obligated. Any requisite contractual documents required by the Client's purchasing procedures are the responsibility of the Client.

Upon review and acceptance of this Enhancement Proposal, please sign below and return the signed copy of the Enhancement Proposal to Tiburon's Pleasanton office. Or, you can fax a copy of this letter to (510) 217-6466. If you have any questions or require further information, please contact me at (414) 416-1431, at your convenience.

Sincerely,



Mark Sykes  
Inside Sales Representative

cc. Joe Sperber, Regional Sales Manager

Attachment A: Scope Description  
Attachment B: General Operating Requirements  
Attachment C: Hardware Configurations/Review  
Attachment D: Server configuration recommendations

---

By this signature, Milwaukee PD accepts EP-277731:

---

Signature

---

Date

---

Printed Name / Title

## Attachment A – Scope Description

### General Responsibilities

Working together, Tiburon and the Client will complete the required steps needed to upgrade the Client's system.

### **Tiburon Responsibilities for LawRECORDS & JailRECORDS Upgrades:**

1. Designate a Coordinator to oversee the upgrade that will:
  - Maintain communication with the Client's Coordinator.
  - Schedule and coordinate all Tiburon staff.
  - Establish an upgrade schedule with the Client's input that includes the intended version.
  - Communicate progress updates on Tiburon Tasks with the client during the active phase of the project (post software installation through cutover)
2. Provide a Product Demonstration of the new features. This Demonstration may be conducted remotely and can take between 4-6 hours for LawRECORDS and JailRECORDS (depending on the installed vs. to be installed version change).
3. Provide the services to migrate the client's current tailoring and configuration to the new version. No new tailoring or configuration settings are included. In some cases, old tailoring cannot be migrated because old fields have been removed or changed.
4. Validate and test the installation and data conversion to insure quality.
5. Conduct Initial and Final Data Conversion/Migration. There may be a period of down time required to conduct a full back up of the source data prior to the final conversion. During the data conversion (typically 24-60 hours in duration) the source system will be on Inquiry only mode and not available for data entry and only limited queries through the GUI screen will be available.
6. Provide 2 days remote technical support post-cutover, and 1 day on site trainer cutover support for LawRECORDS and JailRECORDS.
7. Update TCS Configurations to reflect updated system version information.
8. Provide three (3) days LawRecords and two (2) days JailRecords training for the changes in the applications due to the Version Maintenance Program upgrade (as purchased by client)

Each one (1) day class is a single eight (8) hour session, Monday through Friday and can be delivered any time during Tiburon's standard business hours (between the hours of 8:00 am and 5:00 pm).

**Client Responsibilities for LawRECORDS and JailRECORDS Upgrades:**

- 1) Designate a Coordinator to oversee the upgrade that will:
  - Schedule and coordinate all Client staff and third-party (vendors and/or departments) support.
  - Maintain communication with the Tiburon Coordinator.
  - Establish an upgrade schedule with Tiburon
  - Communicate progress updates on Client Tasks with the Tiburon during the active phase of the project (post software installation through cutover)
- 2) Provide VPN remote access and on-site access to Client server and network equipment, including to all development and system “root” accounts on all servers running Tiburon applications as well as one demonstration/testing workstation during the upgrade process. Provide Administrator Access to Tiburon technical staff to allow configuration of required users. Adequate connectivity is a requirement of VMP eligibility.
- 3) Provide all necessary hardware and third party product upgrades in accordance with Tiburon’s specifications.
- 4) Submit hardware configurations (for any replacement hardware or upgrades) to Tiburon prior to purchase (if Tiburon is not providing the hardware).
- 5) Maintain/update Code tables and operator tables in both systems concurrently after the initial data migration.
- 6) Update required new file maintenance tables as required. This includes adding new security settings as necessary to support new features.
- 7) Reconfigure (as necessary) any Crystal Reports to operate correctly with the upgraded systems.
- 8) Deploy any workstation client software, including mobile versions of ARS (if applicable).
- 9) Download the latest documentation from Tiburon TCS self service website. Alternately, a CD of the baseline current documentation can be requested as well. All documentation is delivered in full – whether each feature is licensed or not by the client.
- 10) Conduct a full System Test to insure that all tailoring and configuration settings are migrated correctly and completely and that data conversion is accurate. Note: Tiburon conducts its own QA testing, but each client specific environment is best reviewed by on site staff as well as Tiburon QA staff.
- 11) Report any system problems using Tiburon’s TCS system (either on line or via email/phone). Note that a new Configuration & login will be established for Product release versions and higher. Patch build installations will not require a new login.

Debra Lewis, Director – IT Services

Milwaukee Police Department

Enhancement Proposal (EP)-277731: Additional Services for the LawRECORDS and JailRECORDS  
Version Management Program (VMP) Upgrade

January 14, 2010

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- 12) Provide a facility for training with a workstation (with a connection to the Tiburon systems) for the instructor and a projection screen.
- 13) Provide a workstation (with a connection to the Tiburon systems) for each student in the class.
- 14) Schedule students to attend the training (maximum of ten (10) students).
- 15) Ensure that scheduled students are able to attend the courses for their complete duration.

**Attachment B – Version 7.5.x Operating Requirements**

Operating System Levels

Server: Windows Windows 2003 Server  
 Workstations: Windows XP SP2  
 Database: Windows Oracle 10g or SQL 2005  
 Crystal: Crystal Reports XI Developer Full Edition\*

*\*To use Crystal Reports through WebQuery, you must purchase Crystal Reports XI Developer Full Edition which is loaded on the WebQuery server itself. This is in addition to any other Crystal Reports that are required to build reports. The free runtime version that some sites have been using will no longer work.*

For WebQuery, the server should be the most powerful Windows machine available. At minimum, a dual processor is required, along with Windows Server 2003 Standard Edition, PC Anywhere 12.0 and WinZip.

Prior to placing any order for VMP hardware (if Tiburon is not to provide the hardware), you must run the specifications by Tiburon in order to ensure that whatever you place on order will work with your new system. Hardware requirements are subject to change with each new version.

Note: 7.6 does not support 800x600 screen resolution.

Item#-MFG SKU	Description	Qty
14348119	Symantec Backup Exec for Windows Servers ( v. 12.5 ) - license + 1 Year Essential Support - 1 server - Symantec Buying Programs Express - level S ( 1+ ) - WinSymantec Backup Exec for Windows Servers - ( v. 12.5 ) - license	1
14353961	Symantec Backup Exec for Windows Servers Agent for Windows Systems (AWS) - ( v. 12.5 ) - license + 1 Year Essential Support - 1 server - Symantec Buying Programs Express - level S ( 1+ ) - WinSymantec Backup Exec for Windows Servers Agent for Windows Systems (AWS) - ( v. 12.5 ) - license	3
14344749	EXP PC Anywhere Host & Remote 12.5 PER-DEV STD LIC B	3
228-08617	Microsoft SQL Server 2005 Standard - License - 1 processor - Open Business - Win - Single Language Microsoft SQL Server 2005 Standard - license	1

Debra Lewis, Director – IT Services  
Milwaukee Police Department  
Enhancement Proposal (EP)-277731: Additional Services for the LawRECORDS and JailRECORDS  
Version Management Program (VMP) Upgrade  
January 14, 2010  
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WINZIP STD 1 USER V-12 ONLY

1



### Attachment C – Hardware Configurations

The following is an analysis of the MPD current system environment. Tiburon's VMP team and SSG staff will be more than happy to review and discuss these configurations and the recommended upgrades with the MPD staff.

The MPD RMS Database & Application server is currently configured as follows:

**NOTE:** The Milwaukee PD I.T. Department supports backups via an internal backup system. The I.T. Department should review the database size changes as the total database sizes may increase. This is critical if the RMS Logging feature will be used.

#### RMS – HP ML570 G2

OS	Windows 2000 SP4
IP Address	10.2.150.11
Computer Name	MPDRMS01
CPU	4-way 2.2 GHz
Memory	4GB
Database	Oracle 8.1.7.4
Disk Config	
	2 x 36GB RAID-1 (1 Hot Spare)
	C: - 36GB (7 Free)
	2 x 72GB RAID-1 91 Hot Spare)
	D: (Program) – 72GB (34 Free)
	3 x 146GB RAID-5
	E: (Database) – 292GB (220 Free)
	1 x 72GB RAID-1
	F: (Redo) – 72GB (52Free)
	1 x 146GB RAID-1
	G: (Backup) – 146GB (68 Free)

#### Summary

This server supports the RMS application and database. This server is performing at an acceptable level. CPU utilization is nominal and disk space is not a problem. The server however is running Windows 2000 and Oracle, for the current version of RMS Windows 2003 and SQL Server 2005 is required.

#### Suggested Configuration

See attached server configuration recommendations to support the RMS application and databases

#### Implementation

Purchase and stage two (2) new servers to support the RMS Application and databases (PRD and TRN).

#### RMS TRN – HP ML530 G2

OS	Windows 2000 SP4
IP Address	10.2.150.17
Computer Name	RMSTRN
CPU	1-way 2.4 GHz

Debra Lewis, Director – IT Services  
Milwaukee Police Department  
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January 14, 2010  
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Memory	3GB
Database	Oracle 8.1.7.4
Disk Config	
	2 x 18GB RAID-1
	C: - 9GB (3 Free)
	D: - 9GB (2.5 Free)
	4 x 36GB RAID-5
	E: - 50GB (46 Free)
	2 x 36GB RAID-1
	F: - 36GB (35 Free)

#### **Summary**

This server supports the TRN RMS application, database and WebQuery. This server is performing at an acceptable level. CPU utilization is nominal and disk space is not a problem. The server however is running Windows 2000 and Oracle, for the current version of RMS Windows 2003 and SQL Server 2005 is required.

#### **Suggested Configuration**

See attached server configuration recommendation to support the TRN RMS application

#### **Implementation**

Purchase and stage a new server to support the TRN RMS Application.

### **WebQuery – HP DL320-G2**

OS	Windows 2000 SP4
IP Address	10.2.150.7
Computer Name	MPDWEB
CPU	1-way 3.4Ghz
Memory	1.5GB
Disk Config	
	2 x 18GB RAID-1
	C: (OS) - 127GB (108 Free)

#### **Summary**

This server supports WebQuery application. This server is performing at an acceptable level. CPU utilization is nominal and disk space is not a problem. The server however is running Windows 2000, for the current version of RMS Windows 2003 is required.

#### **Suggested Configuration**

See attached server configuration recommendation to support the RMS WebQuery (PRD & TRN)

#### **Implementation**

Purchase and stage a new server to support WebQuery.

### **RMS Backup – HP ML530 G2**

OS	Windows 2000 SP4
IP Address	10.2.150.13

Debra Lewis, Director – IT Services

Milwaukee Police Department

Enhancement Proposal (EP)-277731: Additional Services for the LawRECORDS and JailRECORDS

Version Management Program (VMP) Upgrade

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Page 11 of 12

Computer Name	RMSBK01
CPU	4-way 2.0 GHz
Memory	4GB
Database	Oracle 8.1.7.4
Disk Config	
	2 x 18GB RAID-1
	C: (OS) - 18GB (11 Free)
	2 x 18GB RAID-1
	D: (Program) - 18GB (10 Free)
	4 x 36GB RAID-5
	E: (Database) - 108GB (45 Free)
	2 x 36GB RAID-1
	F: (Redo) - 36GB (31 Free)
	2 x 36GB RAID-0
	G: (Orabackup) - 72GB (19 Free)

#### Summary

This server supports a backup of the RMS system (application and database) that can be brought online in the event of a failure of the primary server. This server is performing at an acceptable level. CPU utilization is nominal and disk space is not a problem. The server however is running Windows 2000 and Oracle, for the current version of RMS Windows 2003 and SQL Server 2005 is required.

#### Suggested Configuration

The existing RMS server could be restaged after cut-over to the new system to replace this server. The OS would need to be upgraded to Windows 2003 and SQL Server 2005 would need to be installed.

#### Implementation

After cutover to new version of RMS, on new hardware, restage the current RMS server to replace this server. Perform a clean install of Windows 2003 and SQL Server 2005. Setup database replication as is in place now and copy over application files from primary server.

### Recommended Hardware Upgrades

Attached is a document (attachment D – Server Configuration Recommendations) with recommended hardware for the VMP upgrade systems. The configuration of these servers is as follows:

1. New RMS Application Server.
2. New RMS Database Server
3. New TRN RMS application Server
4. New WebQuery Server.

The existing RMS Server will be used to support the new Backup RMS server. After it has been taken out of server as the primary server the OS and database software will be installed (wipe the server clean and perform a fresh install) and it will be setup as the backup server.

Please note that the recommended hardware is just that, a recommendation. Tiburon prefers working closely with Milwaukee's staff to go over these recommendations and make any changes as needed to ensure the system will satisfy both the Tiburon and client's needs.

Debra Lewis, Director – IT Services

Milwaukee Police Department

Enhancement Proposal (EP)-277731: Additional Services for the LawRECORDS and JailRECORDS  
Version Management Program (VMP) Upgrade

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### **RMS Workstation Hardware Requirements**

The recommended RMS workstation specifications (for v7.5x) are:

- Intel® Processor at 2.00GHz or faster
- 512MB Memory (Additional memory may be required to support other applications running concurrently on the workstation. Review the requirements of these application and adjust memory as needed)
- 20GB Disk Drive or larger
- Microsoft Windows XP Professional SP2
- Graphics card.
- 17-inch or larger display supporting a resolution of up to at least 1024 by 768 pixels with a color depth of at least 10,000 colors (24-bit “true color”)
- CD-ROM or DVD-ROM reader
- PS/2 and/or USB ports as necessary to support keyboard and mouse
- Keyboard
- Optical Mouse with scroll wheel
- Network Interface Card
- Sound card and speakers

## Attachment D: Hardware Configurations

## RMS Application Server

Item#-MFG SKU	Description	Quantity
223-4544	Quad Core Xeon E5430 Processor 2x6MB Cache, 2.66GHz, 1333MHz FSB, PE1950	1
311-1193	Information, No Second Processor	1
466-0825	4GB 667MHz (4X1GB), Dual Ranked Fully Buffered DIMMs	1
310-5017	No Keyboard Selected	1
430-2968	LOM NICs are TOE Ready	1
320-4648	Riser with 2 PCIe Slots for PowerEdge 1950	1
341-4732	146G, 10K, SAS3G, 2.5, HP	1
467-2728	PERC6i SAS RAID Controller 2x4 Connectors, Int, PCIe 256MB Cache	1
420-7118	Windows Server 2003 R2 Standard Edition with SP2 Includes 5 CALS	1
430-1762	Dual Embedded Broadcom NetXtreme II 5708 Gigabit Ethernet NIC	1
313-4310	8X DVD-ROM for PowerEdge 1950	1
313-3937	Bezel for PE 1950	1
311-7957	1x4 Backplane for 2.5-inch Hard Drives	1
310-7962	Electronic Documentation and OpenManage DVD Kit	1
467-5221	146G, 10K, SAS3G, 2.5, HP	1
341-5776	Integrated SAS/SATA RAID 1 PERC 6/i Integrated/SAS6/iR	1
341-3090	Sliding Rapid/Versa Rails and Cable Management Arm, Universal	1
310-9933	Energy Smart Redundant Power Supply with Y-Cord	1
420-4080	20GB OS Partition Override for Microsoft OS Options, PowerEdge	1
310-8509	Power Cord, NEMA 5-15P to C14, 15 amp, wall plug, 10 feet / 3 meter	1
984-1519	Dell Hardware Warranty Plus Onsite Service Initial YR	1
984-1528	Dell Hardware Warranty, Extended Year(s)	1
987-5240	Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, Initial Year	1
987-0792	Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, 2 Year Extended	1
987-1012	ProSupport for End Users: 7x24 HW / SW Tech Support and Assistance for End Users, 3 Year	1
990-1129	MISSION CRITICAL PACKAGE: Enhanced Services, 3 Year	1
989-3439	Thank you choosing Dell ProSupport. For tech support, visit <a href="http://support.dell.com/ProSupport">http://support.dell.com/ProSupport</a> or call 1-800-945-3355	1
900-9997	On-Site Installation Declined	1
463-0742	Special Pricing Applied	1

WebQuery Server

Item#-MFG SKU	Description	Quantity
223-4544	Quad Core Xeon E5430 Processor 2x6MB Cache, 2.66GHz, 1333MHz FSB, PE1950	1
311-1193	Information, No Second Processor	1
466-0825	4GB 667MHz (4X1GB), Dual Ranked Fully Buffered DIMMs	1
310-5017	No Keyboard Selected	1
430-2968	LOM NICs are TOE Ready	1
320-4648	Riser with 2 PCIe Slots for PowerEdge 1950	1
341-4732	146G, 10K, SAS3G, 2.5, HP	1
467-2728	PERC6i SAS RAID Controller 2x4 Connectors, Int, PCIe 256MB Cache	1
420-7118	Windows Server 2003 R2 Standard Edition with SP2 Includes 5 CALS	1
430-1762	Dual Embedded Broadcom NetXtreme II 5708 Gigabit Ethernet NIC	1
313-4310	8X DVD-ROM for PowerEdge 1950	1
313-3937	Bezel for PE 1950	1
311-7957	1x4 Backplane for 2.5-inch Hard Drives	1
310-7962	Electronic Documentation and OpenManage DVD Kit	1
467-5221	146G, 10K, SAS3G, 2.5, HP	1
341-5776	Integrated SAS/SATA RAID 1 PERC 6/i Integrated/SAS6/iR	1
341-3090	Sliding Rapid/Versa Rails and Cable Management Arm, Universal	1
310-9933	Energy Smart Redundant Power Supply with Y-Cord	1
420-4080	20GB OS Partition Override for Microsoft OS Options, PowerEdge	1
310-8509	Power Cord, NEMA 5-15P to C14, 15 amp, wall plug, 10 feet / 3 meter	1
984-1519	Dell Hardware Warranty Plus Onsite Service Initial YR	1
984-1528	Dell Hardware Warranty, Extended Year(s)	1
987-5240	Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, Initial Year	1
987-0792	Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, 2 Year Extended	1
987-1012	ProSupport for End Users: 7x24 HW / SW Tech Support and Assistance for End Users, 3 Year	1
990-1129	MISSION CRITICAL PACKAGE: Enhanced Services, 3 Year	1
989-3439	Thank you choosing Dell ProSupport. For tech support, visit <a href="http://support.dell.com/ProSupport">http://support.dell.com/ProSupport</a> or call 1-800-945-3355	1
900-9997	On-Site Installation Declined	1
463-0742	Special Pricing Applied	1

RMS TRN Application Server

Item#-MFG SKU	Description	Quantity
223-4544	Quad Core Xeon E5430 Processor 2x6MB Cache, 2.66GHz, 1333MHz FSB, PE1950	1
311-1193	Information, No Second Processor	1
466-0825	4GB 667MHz (4X1GB), Dual Ranked Fully Buffered DIMMs	1
310-5017	No Keyboard Selected	1
430-2968	LOM NICs are TOE Ready	1
320-4648	Riser with 2 PCIe Slots for PowerEdge 1950	1
341-4732	146G, 10K, SAS3G, 2.5, HP	1
467-2728	PERC6i SAS RAID Controller 2x4 Connectors, Int, PCIe 256MB Cache	1
420-7118	Windows Server 2003 R2 Standard Edition with SP2 Includes 5 CALS	1
430-1762	Dual Embedded Broadcom NetXtreme II 5708 Gigabit Ethernet NIC	1
313-4310	8X DVD-ROM for PowerEdge 1950	1
313-3937	Bezel for PE 1950	1
311-7957	1x4 Backplane for 2.5-inch Hard Drives	1
310-7962	Electronic Documentation and OpenManage DVD Kit	1
467-5221	146G, 10K, SAS3G, 2.5, HP	1
341-5776	Integrated SAS/SATA RAID 1 PERC 6/i Integrated/SAS6/iR	1
341-3090	Sliding Rapid/Versa Rails and Cable Management Arm, Universal	1
310-9933	Energy Smart Redundant Power Supply with Y-Cord	1
420-4080	20GB OS Partition Override for Microsoft OS Options, PowerEdge	1
310-8509	Power Cord, NEMA 5-15P to C14, 15 amp, wall plug, 10 feet / 3 meter	1
984-1519	Dell Hardware Warranty Plus Onsite Service Initial YR	1
984-1528	Dell Hardware Warranty, Extended Year(s)	1
987-5240	Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, Initial Year	1
987-0792	Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, 2 Year Extended	1
987-1012	ProSupport for End Users: 7x24 HW / SW Tech Support and Assistance for End Users, 3 Year	1
990-1129	MISSION CRITICAL PACKAGE: Enhanced Services, 3 Year	1
989-3439	Thank you choosing Dell ProSupport. For tech support, visit <a href="http://support.dell.com/ProSupport">http://support.dell.com/ProSupport</a> or call 1-800-945-3355	1
900-9997	On-Site Installation Declined	1
463-0742	Special Pricing Applied	1

Database Server

Item#-MFG SKU	Description	Quantity
223-4486	Quad Core Xeon X5460 Processor 2x6MB Cache, 3.16GHz, 1333MHz FSB, PE2950	1
311-1193	Information, No Second Processor	1
311-6197	8GB 667MHz (4x2GB), Dual Ranked Fully Buffered DIMMs	1
310-5017	No Keyboard Selected	1
430-2968	LOM NICs are TOE Ready	1
320-4607	Riser with 3 PCIe Slots for PowerEdge 2950	1
341-4732	146G, 10K, SAS3G, 2.5, HP	1
467-2727	PERC6i SAS RAID Controller, 2x4 Connectors, Int, PCIe, 256MB cache, x8 Bkpl	1
341-3078	No Floppy Drive w/Filler Panel	1
420-7122	Windows Server 2003 R2 Standard x64 Edition with SP2 Includes 5 CALs	1
430-1764	ONBOARD BROADCOM 5708 1GBE NETWORKING	1
313-6769	Optical Drive Cable, SATA PE2950, PE1950	1
313-6770	DVD-ROM, SATA, Internal	1
313-3920	Bezel for PE 2950	1
311-7934	1x8 Backplane for 2.5-Inch Hard Drives, PE2950 III	1
310-7415	Electronic Documentation and OpenManage DVD Kit	1
467-5238	146G, 10K, SAS3G, 2.5, HP	1
341-5841	PERC6E SAS RAID Controller 2x4 Connectors, External, PCIe 512MB cache	1
341-5722	Integrated SAS/SATA RAID 1, PERC 6/i Integrated/SAS6/iR	1
310-7411	No Rack Rails Included	1
310-9895	Non-Redundant Power Supply	1
420-4080	20GB OS Partition Override for Microsoft OS Options, PowerEdge	1
310-8509	Power Cord, NEMA 5-15P to C14, t5 amp, wall plug, 10 feet / 3 meter	1
984-1399	Dell Hardware Warranty Plus Onsite Service Initial YR	1
984-1417	Dell Hardware Warranty, Extended Year(s)	1
987-2810	Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, Initial Year	1
986-8212	Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, 2 Year Extended	1
986-8432	ProSupport for End Users: 7x24 HW / SW Tech Support and Assistance for End Users, 3 Year	1
990-0579	MISSION CRITICAL PACKAGE: Enhanced Services, 3 Year	1
989-3439	Thank you choosing Dell ProSupport. For tech support, visit <a href="http://support.dell.com/ProSupport">http://support.dell.com/ProSupport</a> or call 1-800-945-3355	1
900-9997	On-Site Installation Declined	1
463-0742	Special Pricing Applied	1
222-4819	PowerVault MD3000 external RAID array with two single-port controllers	1
341-4377	146GB 15K RPM Serial-Attach SCSI 3Gbps 3.5-in HotPlug HardDrive	1



## Database Server

341-3986	Two SAS 5/E Host bus adapters PCI-Express, 2X4 Connectors	1
310-7857	2 SAS Cable, 2 Meter, MDx000	1
341-4377	146GB 15K RPM Serial-Attach SCSI 3Gbps 3.5-in HotPlug HardDrive	1
410-0854	License key for Snapshot AND Volume copy software features MD3000	1
310-7081	Versa-Rails, Round Hole - Universal for 3rd Party Racks	1
985-5387	Dell Hardware Warranty Plus OnSite Service Initial Year	1
981-0430	SILVER Enterprise Support: 4-Hour 7x24 Onsite Service After Problem Diagnosis, Initial Year	1
985-5358	Dell Hardware Warranty, Extended Year(s)	1
980-4272	SILVER Enterprise Support: 4-Hour 7x24 Onsite Service After Problem Diagnosis, 2 Year Extended	1
980-4482	SILVER Enterprise Support: 7x24 Hw/Sw Technical Phone Support, Enterprise Command Center, 3 Year	1
992-2509	ONSITE: Installation of a Dell Server, Storage or Peripheral Device, PowerVault Storage, Medium Weight	1
985-5398	Remote Implementation of a Dell PowerVault MD3xxx Subsystem (to schedule, email US_Remote_Services@dell.com)	1
341-4377	146GB 15K RPM Serial-Attach SCSI 3Gbps 3.5-In HotPlug HardDrive	1
341-4377	146GB 15K RPM Serial-Attach SCSI 3Gbps 3.5-in HotPlug HardDrive	1
341-4377	146GB 15K RPM Serial-Attach SCSI 3Gbps 3.5-in HotPlug HardDrive	1
341-4377	146GB 15K RPM Serial-Attach SCSI 3Gbps 3.5-In HotPlug HardDrive	1
341-4377	146GB 15K RPM Serial-Attach SCSI 3Gbps 3.5-in HotPlug HardDrive	1
341-4377	146GB 15K RPM Serial-Attach SCSI 3Gbps 3.5-In HotPlug HardDrive	1
341-4377	146GB 15K RPM Serial-Attach SCSI 3Gbps 3.5-in HotPlug HardDrive	1
341-4377	146GB 15K RPM Serial-Attach SCSI 3Gbps 3.5-In HotPlug HardDrive	1
310-0686	Blank Hard Drive Filler for Dell PowerVault Array	1
310-0686	Blank Hard Drive Filler for Dell PowerVault Array	1
310-0686	Blank Hard Drive Filler for Dell PowerVault Array	1
310-0686	Blank Hard Drive Filler for Dell PowerVault Array	1
310-0686	Blank Hard Drive Filler for Dell PowerVault Array	1
463-0742	Special Pricing Applied	1

## Tape Library

Item#-MFG SKU	Description	Quantity
224-0070	PowerVault 124T, 2U AutoloaderLTO4-120HH SAS, 800/1600GB 16 Slot 2 Maga	1
341-5016	SAS 5/E HBA, PCI-Express 2X4 (requires 1 SAS cable)	1
341-5023	SAS cable, 4 meter, connects Tape Device to SAS HBA	1
310-6891	PowerVault 124T Rapid Rails for Dell Rack	1
989-6390	Pro Support for End User: Next Business Day Onsite Service After Problem Diagi	1
989-3772	ProSupport for End Users: 7x24 HW / SW Tech Support and Assistance for End I	1
985-7818	Dell Hardware Warranty, Extended Year(s)	1
989-3439	Thank you choosing Dell ProSupport. For tech support, visit <a href="http://support.dell.co">http://support.dell.co</a>	1
989-3702	Pro Support for End User: Next Business Day Onsite Service After Problem Diagi	1
985-7799	Dell Hardware Warranty Plus Onsite Service Initial Year	1
900-9997	On-Site Installation Declined	1
341-4628	Tape Media for LTO4-120 tape 800GB/1.6TB, 20 Pack	1
310-9338	LTO4-120 Tape Labels, 201 to 400	1
463-0742	Special Pricing Applied	1



Tiburon, Inc.  
6200 Stoneridge Mall Road  
Suite 400  
Pleasanton, CA 94588  
USA

T: 925.621.2700  
F: 925.621.2799

www.tiburoninc.com

January 15, 2010

Debra Lewis, Director – IT Services  
Milwaukee Police Department  
2333 North 49th Street  
Milwaukee, WI 53210

Subject: Enhancement Proposal (EP)-12426: Name Verify Bypass

Reference: Contract for Services, Vendor Contract Number B0000001917, Date of Award September 24, 2002, System Implementation Agreement between the City of Milwaukee and Tiburon, Inc., Effective November 4, 2002

Dear Director Lewis:

Tiburon, Inc. is pleased to present the Milwaukee PD (hereinafter, "Client") with this Enhancement Proposal to modify the name verify process in the LawRecords System (hereinafter, referred to as the "Proposal").

Scope Description and Responsibilities

The attached Exhibit 1, Statement of Work describes in detail each project task and associated completion criteria and the responsibilities for each party.

Price Description

- 1) Proposal firm fixed price: \$ 5,876
- 2) The Tiburon Annual Maintenance Fee will increase by the following amount as a result of this Proposal: \$ 0.00
- 3) This Proposal does not include any taxes levied by a government agency. Taxes, if applicable are the sole responsibility of the Client.

Effective Date and Payment Schedule

- 1) The work described herein will be scheduled to commence at a mutually agreeable date after enhancement Proposal acceptance.
- 2) Payment Schedule:
  - 50% Upon Tiburon receipt of the signed acceptance of this Proposal.
  - 50% Upon Tiburon providing completion letter of the work performed hereunder.

Debra Lewis, Director – IT Services  
Milwaukee Police Department  
Enhancement Proposal (EP)-12426: Name Verify Bypass  
Page 2 of 4

- 3) Client's acceptance of this Proposal in the signature block provided below, authorizes Tiburon to proceed with the work described herein and confirms funding will be obligated. Any requisite contractual documents required by Client's purchasing procedures are the responsibility of the Client.
- 4) The terms and conditions of the Reference Agreement, Contract for Services, Vendor Contract Number B0000001917, Date of Award September 24, 2002, System Implementation Agreement between the City of Milwaukee and Tiburon, Inc., Effective November 4, 2002, and this Proposal prevail regardless of any conflicting or additional terms and conditions on any Purchase Order or other correspondence. Any contingencies or additional terms obtained on any Purchase Order are not binding upon Tiburon. All Purchase Orders are subject to approval and acceptance by Tiburon.
- 5) This fixed price Proposal is valid through April 30, 2010, unless otherwise modified by Tiburon in writing prior to Client's acceptance.
- 6) Travel or on-site time is not included in this Enhancement Proposal.
- 7) Training is not included in this Enhancement Proposal.
- 8) Documentation is not included in this Enhancement Proposal.

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Debra Lewis, Director -- IT Services  
Milwaukee Police Department  
Enhancement Proposal (EP)-12426: Name Verify Bypass  
Page 3 of 4

Upon review and acceptance of this Proposal, please sign below and return the signed copy of the Proposal to Mark Sykes via e-mail at [Mark.Sykes@Tiburonic.com](mailto:Mark.Sykes@Tiburonic.com) or fax 510-217-6466. If you have any questions or require further information, please contact me (414-687-5213) at your convenience.

Sincerely,



Mark Sykes  
Inside Sales Representative

Attachments:

Exhibit 1: Statement of Work

---

By this signature, Client accepts this Proposal

---

Signature

---

Date

---

Printed Name / Title

*Exhibit  
Prop*

# Exhibit 1

## Statement of Work

### Scope Description

Tiburon will design, develop and implement a process to change the convention associated with the name verify process. Tiburon will create a 'master MNI' that all variants of MPD would be associated to this single instance. Tiburon would essentially create a name-bypass derivative for all associated MPD aliases and use one MNI for all of them.

Background information: The name verify process works like a 'pre-filter', and is intended to take the name of the associated party, along with additional information like DOB, Sex, Race and then retrieve matches to make the association. In the case of MPD, there are 40,000 matches the system attempts to retrieve. Pulling back this many matches takes time, and is the reason for the slowness that is being experienced at MPD.

### Tiburon Responsibilities

- 1) Prepare internal design documents.
- 2) Modify the application per the "Scope Description."
- 3) Install the modified code in the client's test environment.
- 4) Correct any discrepancies in operation, based on the "Scope Description," post client testing.
- 5) Install the modified code in the client's production environment.

### Client Responsibilities

- 1) Designate a person to be the principal point of contact for all technical questions and administrative arrangements relating to this Enhancement Proposal.
- 2) Provide VPN access to Tiburon development personnel.
- 3) Test the code for conformance with the "Scope Description."

### Completion Criteria

This work will be considered complete ten (10) business days after Tiburon has provided the Client with written notification that the Name Verify Bypass Process is ready for review, or the Name Verify Bypass Process has been delivered to the client, whichever comes first. If Client does not confirm completion with a sign off letter presented by the Tiburon project manager within ten (10) business days of submittal of such letter, or otherwise notifies Tiburon in writing why completion sign-off has not been provided any final invoice(s) will be issued and will be payable in accordance with the payment terms of this Enhancement Proposal.



Tiburon, Inc.  
6200 Stoneridge Mall Road  
Suite 400  
Pleasanton, CA 94588  
USA

T: 925.621.2700  
F: 925.621.2799

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January 15, 2010

Debra Lewis, Director – IT Services  
Milwaukee Police Department  
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Debra Lewis, Director -- IT Services  
Milwaukee Police Department  
Enhancement Proposal (EP)-12426: Name Verify Bypass  
Page 3 of 4

Upon review and acceptance of this Proposal, please sign below and return the signed copy of the Proposal to Mark Sykes via e-mail at [Mark.Sykes@Tiburonic.com](mailto:Mark.Sykes@Tiburonic.com) or fax 510-217-6466. If you have any questions or require further information, please contact me (414-687-5213) at your convenience.

Sincerely,



Mark Sykes  
Inside Sales Representative

Attachments:

Exhibit 1: Statement of Work

---

By this signature, Client accepts this Proposal

---

Signature

---

Date

---

Printed Name / Title

# Exhibit 1

## Statement of Work

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- 5) Install the modified code in the client's production environment.

### Client Responsibilities

- 1) Designate a person to be the principal point of contact for all technical questions and administrative arrangements relating to this Enhancement Proposal.
- 2) Provide VPN access to Tiburon development personnel.
- 3) Test the code for conformance with the "Scope Description."

### Completion Criteria

This work will be considered complete ten (10) business days after Tiburon has provided the Client with written notification that the Name Verify Bypass Process is ready for review, or the Name Verify Bypass Process has been delivered to the client, whichever comes first. If Client does not confirm completion with a sign off letter presented by the Tiburon project manager within ten (10) business days of submittal of such letter, or otherwise notifies Tiburon in writing why completion sign-off has not been provided any final invoice(s) will be issued and will be payable in accordance with the payment terms of this Enhancement Proposal.

# Capital Improvement Request Form Part I

Project/Program Title: Radio & Communications Upgrades Requesting Department: Police

Prepared By/Phone Ext: John Ledvina 935-7495 Department Head Signature: *John Ledvina*

Account No: PL120090300

A) Department Priority 2a of 10 Useful Life 10 to 25 Years Level of Need  Essential  Important  Desired

Type of Project  New  Replacement  Repair  On-Going Program

Project/Program Scope  Fully Defined  Partially Defined

B) Description

**Infrastructure**

Street Related  Sewer  Water  Street Lighting  Communications  Recreation

Sidewalks  Alleys  Bridge  Environmental  Port  Parking

**Building**

Roof  Windows  HVAC  Electrical  Restroom  Security  Exterior  Entire Facility

ADA  Office Remodeling  New Building  Elevators  Garage  Mechanical

**Miscellaneous Development**

Economic  Information Systems  Equipment  Other \_\_\_\_\_

C) Project/Program Duration

One Year  Yes  No

On-Going Program  Yes  No

Multi-Year  Yes  No Number of Years \_\_\_\_\_

D) Total Positions \_\_\_\_\_ Total FTEs \_\_\_\_\_

Position Title	No. of Positions	FTEs	Salaries
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____

E) In Six Year Capital Improvement Plan

Yes  2009-2014  2010-2015  Yes, Modified  New Request

F) Project/Program Justification

MPD is responsible for City radio communications and has a large number of communications infrastructure facilities to maintain and upgrade. They include large numbers of towers, base stations, antennas and other communications equipment with a useful life ranging from 10 to 25 years. Our radio communications manager has analyzed the condition and age of your various equipment and facilities to develop a replacement/repair schedule intended to keep equipment in reliable condition. This equipment is essential to public safety. **This program is crucial to improvement of trunked digital radio coverage and will be utilized to remedy coverage/signal amplification issues on an ongoing basis, augmenting digital radio vendor efforts.**

G) Additional Comments

Some projects under this program may change based on future trunked digital radio system needs vs. old analog radio facilities needs. Communications Section evaluating infrastructure equipment needs post-digital radio implementation.



# Capital Improvement Request Part II

Requesting Department: Police

Project/Program Title: Radio & Communications Upgrades

Account No: PL120090300

Year	Tax Levy/Borrowing	Grant & Aid	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010	\$15,000					\$15,000
2011 Budget Request	\$42,000					\$42,000
2012 Projection	\$77,000					\$77,000
2013 Projection	\$116,000					\$116,000
2014 Projection	\$95,000					\$95,000
2015 Projection	\$244,000					\$244,000
2016 Projection	TBD					\$0
<b>Total Six Year Cost</b>	\$574,000	\$0	\$0	\$0	\$0	\$574,000
<b>Total Project Cost</b>	\$589,000	\$0	\$0	\$0	\$0	\$589,000

Life to Date Expenditures (Project Only)

\$0	\$0	\$0	\$0	\$0	\$0	\$0
-----	-----	-----	-----	-----	-----	-----

**Available Cost Estimate:**

- Thorough Cost Estimate  2011  2012  2013  2014  2015  2016
- Limited Information
- Based on Cost of Similar Projects
- Unsupported

- Were cost estimates confirmed by another source?  Yes  No  Uncertain
- Are cost estimates based on industry standards?  Yes  No  Uncertain
- Will city employees be performing any portion of the work?  Yes  No  Uncertain
- Did you perform a cost/benefit analysis?  Yes  No  Uncertain

How will this project impact city operating expenditures?  Increase  Decrease  None

Estimated Start Date: 01/01/11

Estimated Completion Date: 12/31/11

Department Head Signature



Prepared By/Phone Ext

John Ledvina 935-7495 Debbie Witichowski 935-7677



Radio and Communication Upgrades for 2010 Capital budget

	# in use	Unit cost	2009	2010	2011	2012	2013	2014	2015
District #4 tower replacement	1	\$60,000	\$60,000						
radio tower painting- various	7	\$8,000	\$0	\$8,000	\$8,000	\$8,000	\$8,000		
antenna systems replacement	80	\$8,500	\$0	\$34,000	\$34,000	\$34,000	\$34,000	\$34,000	\$34,000
firststar tower/ communications room upgrade	1	\$8,000	\$8,000						
24th & mitchell tower& communications room upgrade:	1	\$19,000	\$19,000						
Garden Homes site tower, electrical upgrades	1	\$9,000	\$9,000						
Dist #5 improvements to antenna system	1	\$9,000	\$9,000						
WPLK receive site- second control cabinet	1	\$4,000	\$4,000						
academy tower site deficiencies	1	\$4,000	\$4,000						
time domain reflectometers (antenna test equipment)	1	\$9,000	\$9,000						
additional page transmitter, city hall	1	\$9,000	\$9,000						
network switching server replacement	2	\$11,000		\$11,000	\$11,000				
tower top amplifier replacement	8	\$21,000		\$168,000	\$168,000	\$21,000	\$21,000	\$21,000	\$21,000
Dist #2 tower upgrades	1	\$6,000		\$6,000	\$6,000				
District #6 antenna & electronics upgrade	1	\$3,000		\$3,000	\$3,000				
high power page transmitter, police	2	\$15,000		\$30,000	\$30,000	\$15,000			
tower top amplifiers	8	\$21,000		\$168,000	\$168,000	\$21,000	\$21,000	\$21,000	\$21,000
Hawley tank tower expansion for add'l transmitters	1	\$6,000		\$6,000	\$6,000				
zetron paging terminal replacement	1	\$19,000		\$19,000	\$19,000		\$19,000		
radio stations TDMA HI	7	\$175,000		\$1,225,000	\$1,225,000				\$175,000
Network first SLip routers	4	\$14,000		\$56,000	\$56,000				\$14,000
			\$60,000	\$113,000	\$42,000	\$77,000	\$116,000	\$95,000	\$244,000
									TOTAL 2010 TO 2015 \$687,000





Project/Program Title: Remodel Administration Building Offices Requesting Department: Police

Prepared By/Phone Ext: John Ledvina 935-7495 Department Head Signature: [Signature]

Account No: PL120080700

Department Priority 3 of 10 Useful Life 30-50 Years Level of Need  Essential  Important  Desired

Type of Project  New  Replacement  Repair  On-Going Program Project/Program Scope  Fully Defined  Partially Defined

B) Description

**Infrastructure**

Street Related  Sewer  Water  Street Lighting  Communications  Recreation  
 Sidewalks  Alleys  Bridge  Environmental  Port  Parking

**Building**

Roof  Windows  HVAC  Electrical  Restroom  Security  Exterior  Entire Facility  
 ADA  Office Remodeling  New Building  Elevators  Garage  Mechanical

**Miscellaneous Development**

Economic  Information Systems  Equipment  Other \_\_\_\_\_

C) Project/Program Duration

One Year  Yes  No

On-Going Program  Yes  No

Multi-Year  Yes  No Number of Years \_\_\_\_\_

D) Total Positions \_\_\_\_\_ Total FTEs \_\_\_\_\_

Position Title	No. of Positions	FTEs	Salaries \$
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____

E) In Six Year Capital Improvement Plan

Yes  2009-2014  2010-2015  Yes, Modified  New Request

F) Project/Program Justification

The Police Administration Building was built in 1970, and until 2001, had not undergone any major remodeling since it was built. The electrical systems are inadequate to support the needs of modern technology and current staffing levels. The proposed renovation includes substantial reconstruction of all building systems except elevators and HVAC plant which were replaced in recent past. This request is based on a recently completed Mechanical System and Space Utilization Study by Eppstein Uhen Architects and associates. The study report will be forwarded shortly when final.

G) Additional Comments

Specific requests for 2011 include additional funding for mechanical shaft replacement, fire pump replacement to increase capacity to modern standards, and begin 5th floor renovation including asbestos removal and other preparation work.



# Capital Improvement Request Part II

Requesting Department: Police

Project/Program Title: Remodel Administration Building Offices

Account No: PL120080700

Year	Tax Levy/Borrowing	Grant & Aid	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010	\$373,450					\$373,450
2011 Budget Request	\$5,879,131					\$5,879,131
2012 Projection	\$14,702,566					\$14,702,566
2013 Projection	\$12,866,420					\$12,866,420
2014 Projection	\$10,357,525					\$10,357,525
2015 Projection	\$2,515,217					\$2,515,217
2016 Projection						
<b>Total Six Year Cost</b>	\$46,320,859	\$0	\$0	\$0	\$0	\$46,320,859
<b>Total Project Cost</b>	\$46,694,309	\$0	\$0	\$0	\$0	\$46,694,309

Life to Date Expenditures (Project Only)

	2011	2012	2013	2014	2015	2016
\$0	\$0	\$0	\$0	\$0	\$0	\$0

**Available Cost Estimate:**

- Thorough Cost Estimate  2011
- Limited Information  2012
- Based on Cost of Similar Projects  2013
- Unsupported  2014

Were cost estimates confirmed by another source?  Yes  No  Uncertain

Are cost estimates based on industry standards?  Yes  No  Uncertain


Will city employees be performing any portion of the work?  Yes  No  Uncertain

Did you perform a cost/benefit analysis?  Yes  No  Uncertain

How will this project impact city operating expenditures?  Increase  Decrease  None

Estimated Start Date: 01/01/11

Estimated Completion Date: 12/31/15

  
 Department Head Signature  
 Prepared By/Phone Ext John Ledvina 935-7495 Dave Skorzewski 935-7534





eppstein uhlen : architects



**CITY OF MILWAUKEE  
POLICE ADMINISTRATION BUILDING MASTER PLANNING  
MILWAUKEE, WISCONSIN**

**TOTAL CONSTRUCTION COSTS - TOTAL PROJECT**

2010-2015 MASTERPLAN EXPENDITURES SUMMARY  
COST MODEL  
April 1, 2010

Master Plan Expenditures Breakdown		Total System Cost
<b><u>2010 MASTER PLAN EXPENDITURES</u></b>		
1.0	CONSTRUCTION COSTS	\$0
2.0	ARCHITECTURAL AND ENGINEERING FEES	\$292,500
3.0	OWNER CONSTRUCTION ADMINISTRATION	\$11,700
4.0	DEVELOPMENT AND SOFT COSTS	\$40,000
5.0	EQUIPMENT AND SYSTEMS	\$0
6.0	FURNITURE AND FIXTURES	\$0
7.0	PROJECT CONTINGENCY	\$29,250
<b>2010 MASTER PLAN EXPENDITURES</b>		<b>\$373,450</b>
<b><u>2011 MASTER PLAN EXPENDITURES</u></b>		
1.0	CONSTRUCTION COSTS	\$4,588,614
2.0	ARCHITECTURAL AND ENGINEERING FEES	\$476,455
3.0	OWNER CONSTRUCTION ADMINISTRATION	\$209,694
4.0	DEVELOPMENT AND SOFT COSTS	\$97,861
5.0	EQUIPMENT AND SYSTEMS	\$0
6.0	FURNITURE AND FIXTURES	\$0
7.0	PROJECT CONTINGENCY	\$88,507
<b>2011 MASTER PLAN EXPENDITURES</b>		<b>\$5,879,131</b>
<b><u>2012 MASTER PLAN EXPENDITURES</u></b>		
1.0	CONSTRUCTION COSTS	\$10,561,317
2.0	ARCHITECTURAL AND ENGINEERING FEES	\$420,941
3.0	OWNER CONSTRUCTION ADMINISTRATION	\$470,579
4.0	DEVELOPMENT AND SOFT COSTS	\$148,110
5.0	EQUIPMENT AND SYSTEMS	\$874,966
6.0	FURNITURE AND FIXTURES	\$1,130,428
7.0	PROJECT CONTINGENCY	\$1,098,226
<b>2012 MASTER PLAN EXPENDITURES</b>		<b>\$14,702,566</b>
<b><u>2013 MASTER PLAN EXPENDITURES</u></b>		
1.0	CONSTRUCTION COSTS	\$9,533,827
2.0	ARCHITECTURAL AND ENGINEERING FEES	\$400,723
3.0	OWNER CONSTRUCTION ADMINISTRATION	\$440,585
4.0	DEVELOPMENT AND SOFT COSTS	\$144,960
5.0	EQUIPMENT AND SYSTEMS	\$150,872
6.0	FURNITURE AND FIXTURES	\$1,201,999
7.0	PROJECT CONTINGENCY	\$993,455
<b>2013 MASTER PLAN EXPENDITURES</b>		<b>\$12,866,420</b>
<b><u>2014 MASTER PLAN EXPENDITURES</u></b>		
1.0	CONSTRUCTION COSTS	\$7,675,534
2.0	ARCHITECTURAL AND ENGINEERING FEES	\$172,555
3.0	OWNER CONSTRUCTION ADMINISTRATION	\$360,234
4.0	DEVELOPMENT AND SOFT COSTS	\$137,773
5.0	EQUIPMENT AND SYSTEMS	\$60,000
6.0	FURNITURE AND FIXTURES	\$1,166,621
7.0	PROJECT CONTINGENCY	\$784,809
<b>2014 MASTER PLAN EXPENDITURES</b>		<b>\$10,357,525</b>
<b><u>2015 MASTER PLAN EXPENDITURES</u></b>		
1.0	CONSTRUCTION COSTS	\$2,103,210
2.0	ARCHITECTURAL AND ENGINEERING FEES	\$51,914
3.0	OWNER CONSTRUCTION ADMINISTRATION	\$102,384
4.0	DEVELOPMENT AND SOFT COSTS	\$36,362
5.0	EQUIPMENT AND SYSTEMS	\$0
6.0	FURNITURE AND FIXTURES	\$5,836
7.0	PROJECT CONTINGENCY	\$215,512
<b>2015 MASTER PLAN EXPENDITURES</b>		<b>\$2,515,217</b>
<b>TOTAL MASTER PLAN EXPENDITURES</b>		<b>\$46,694,309</b>

\*\*\* COSTING ANALYSIS TAKES INTO CONSIDERATION A 3.50% YEARLY COMPOUNDING ESCALATION MODIFIER\*\*\*



**CITY OF MILWAUKEE  
POLICE ADMINISTRATION BUILDING MASTER PLANNING  
MILWAUKEE, WISCONSIN**

**TOTAL PROJECT BUDGET SUMMARY**

COST MODEL  
April 1, 2010

Item Description	Total Estimated Cost	FISCAL YEAR ALLOCATION					Responsibility	Notes
		2010	2011	2012	2013	2014		
<b>1.0 CONSTRUCTION COSTS</b>								
1.01 MEP Infrastructure Upgrades - Exterior Shaft (Supply)	\$3,453,820		\$3,453,820					Mortenson
1.01 High Rise Upgrades	\$1,134,734		\$1,134,734					Mortenson
1.12 Interior Renovations - Level 2	\$4,076,261			\$4,076,261				Mortenson
1.12 Interior Renovations - Level 4	\$6,484,876			\$6,484,876				Mortenson
1.14 Interior Renovations - Level 3	\$8,015,760				\$8,015,760			Mortenson
1.12 Interior Renovations - Level 5	\$4,310,067				\$4,310,067			Mortenson
1.16 Interior Renovations - Level 7	\$4,002,974					\$4,002,974		Mortenson
1.17 Interior Renovations - Level 4	\$2,416,342					\$2,416,342		Mortenson
1.16 Interior Renovations - Basement	\$1,255,817					\$1,255,817		Mortenson
1.16 MEP Infrastructure Upgrades - Exterior Shaft (Return)	\$497,204						\$497,204	Mortenson
1.20 Conveying Systems - Elevator Addition	\$1,006,093						\$1,006,093	Mortenson
<b>Subtotal</b>	<b>\$34,462,061</b>	<b>\$0</b>	<b>\$4,588,614</b>	<b>\$10,561,317</b>	<b>\$9,533,027</b>	<b>\$7,675,134</b>	<b>\$2,104,213</b>	
<b>2.0 ARCHITECTURAL AND ENGINEERING FEES</b>								
2.01 MEP Infrastructure - HVAC Exterior Shafts	\$308,200	\$172,300	\$135,900					EUA
2.01 High Rise Upgrades	\$145,225	\$105,000	\$40,225					EUA
2.12 Interior Renovations Level 2	\$185,396		\$115,506	\$69,890				EUA
2.12 Interior Renovations Level 4	\$368,522		\$274,616	\$93,906				EUA
2.14 Interior Renovations Level 3	\$193,427		\$143,612	\$49,815				EUA
2.12 Interior Renovations Level 5	\$181,813		\$127,744	\$54,072				EUA
2.12 Interior Renovations Level 7	\$158,276			\$152,547		\$5,729		EUA
2.12 Interior Renovations Level 6	\$91,487			\$68,020		\$23,467		EUA
2.12 Interior Renovations Basement	\$123,826			\$91,460		\$32,367		EUA
2.16 MEP Infrastructure - HVAC Exterior Shafts (Return CA)	\$27,317						\$27,317	EUA
2.20 Conveying Systems - Elevator Addition	\$76,200					\$26,002	\$16,997	EUA
2.21 Miscellaneous (Printing/ Courier/ Misc)	\$80,000	\$15,000	\$15,000	\$15,000	\$15,000	\$20,000	\$15,000	EUA
2.23 Construction Administration	\$0							EUA
2.23 Plan Review Allowances	\$0							EUA
<b>Subtotal</b>	<b>\$1,819,027</b>	<b>\$392,300</b>	<b>\$476,455</b>	<b>\$420,941</b>	<b>\$400,723</b>	<b>\$172,355</b>	<b>\$91,914</b>	5.27% of Construction Costs
<b>3.0 OWNER CONSTRUCTION ADMINISTRATION</b>								
3.01 CITY Construction Administration (2%)	\$97,526	\$5,000	\$194,847	\$235,200	\$228,282	\$180,117	\$91,102	City of Milw. 2% of Item 1.0 & 2.0
3.01 CITY Contract (2%)	\$797,246	\$5,000	\$194,847	\$235,200	\$228,282	\$180,117	\$91,102	City of Milw. 2% of Item 1.0 & 2.0
<b>Subtotal</b>	<b>\$1,295,178</b>	<b>\$11,700</b>	<b>\$209,694</b>	<b>\$470,400</b>	<b>\$456,564</b>	<b>\$360,234</b>	<b>\$182,204</b>	4.63% of Construction Costs
<b>4.0 DEVELOPMENT AND SOFT COSTS</b>								
4.01 Hazardous Material Abatement (Survey Only)	\$65,000	\$40,000	\$1,300	\$6,000	\$6,000	\$9,000	\$3,000	City of Milw. \$800 per Visit + 4 hrs & 5 Samples per Visit
4.01 Hazardous Material Abatement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Included in Item 1.0
4.02 Constructive Material Yarding	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Included in Item 1.0
4.02 Building Permit	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Included in Item 1.0
4.04 As-Built Documents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Included in Item 1.0
4.05 Builder's Risk Insurance	\$45,827	\$5,000	\$13,370	\$12,654	\$10,589	\$2,900	\$2,900	Mortenson
4.10 OC Payment and Performance Bond	\$244,700	\$20,632	\$72,972	\$64,170	\$66,811	\$18,112	\$18,112	Mortenson
4.07 Construction Permit	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Included in Item 1.0
4.02 Test & Balance HVAC System	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Included in Item 1.0
4.01 Building Commissioning	\$347,332	\$40,430	\$53,561	\$58,097	\$0 1,302	\$14,252	\$0	City of Milw.
<b>Subtotal</b>	<b>\$683,057</b>	<b>\$40,000</b>	<b>\$57,861</b>	<b>\$148,118</b>	<b>\$144,988</b>	<b>\$127,771</b>	<b>\$28,262</b>	3.75% of Construction Costs
<b>5.0 EQUIPMENT AND SYSTEMS</b>								
5.10 Audio/Visual Equipment	\$0							City of Milw. Included in Item 5.0
5.11 Fitness Room Equipment	\$116,872				\$116,872			City of Milw. Item Incl. @ \$125 / SF of Fitness Room + Excavation
5.12 Fuction Room Equipment	\$824,906			\$824,906				Mortenson Included in Item 1.0
5.12 Public Address Systems	\$0							Mortenson Included in Item 1.0
5.14 Site Security Systems / CCTV	\$0							Mortenson Included in Item 1.0
5.12 Temperature Controls	\$0							Mortenson Included in Item 1.0
5.12 Fire Alarm System	\$0							Mortenson Included in Item 1.0 (Rough-In Only)
5.12 Telephonic/Computer Cabling	\$0							Mortenson Allowance of \$20,000 per Renovated Level
5.14 Temporary Data S. Comm. Cabling	\$140,000		\$40,000	\$40,000	\$40,000			City of Milw. Item provided by the Police Department
5.12 Telephone Systems	\$0							MKE Police Item provided by the Police Department
5.20 Computer Systems	\$0							MKE Police Item provided by the Police Department
5.21 Janitorial Equipment	\$0							MKE Police
<b>Subtotal</b>	<b>\$1,093,838</b>	<b>\$0</b>	<b>\$0</b>	<b>\$824,906</b>	<b>\$190,872</b>	<b>\$80,000</b>	<b>\$0</b>	5.75% of Construction Costs
<b>6.0 FURNITURE AND FIXTURES</b>								
6.10 Furniture and Fixtures Level 2	\$147,820			\$147,820				City of Milw.
6.11 Furniture and Fixtures Level 4	\$712,365			\$712,365				City of Milw.
6.12 Furniture and Fixtures Level 3	\$460,110				\$460,110			City of Milw.
6.13 Furniture and Fixtures Level 7	\$450,702				\$450,702			City of Milw.
6.14 Furniture and Fixtures Level 7	\$584,510					\$584,510		City of Milw.
6.12 Furniture and Fixtures Level 6	\$150,330					\$150,330		City of Milw.
6.10 Furniture and Fixtures Basements	\$95,244					\$95,244		City of Milw.
6.15 Interior Signage	\$72,968			\$72,968			\$72,968	City of Milw.
6.15 Temporary Office Construction	\$548,172			\$548,172			\$548,172	City of Milw.
6.16 Moving Costs	\$245,120			\$245,120			\$245,120	City of Milw.
<b>Subtotal</b>	<b>\$3,864,883</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,120,420</b>	<b>\$1,201,999</b>	<b>\$1,186,621</b>	<b>\$5,833</b>	10.17% of Construction Costs
<b>7.0 PROJECT CONTINGENCY</b>								
7.01 10% Project Contingency	\$3,827,739	\$39,280	\$388,507	\$1,090,228	\$993,455	\$784,800	\$215,515	City of Milw. 10% of Item 1.0 & 2.0
<b>Subtotal</b>	<b>\$3,827,739</b>	<b>\$39,280</b>	<b>\$388,507</b>	<b>\$1,090,228</b>	<b>\$993,455</b>	<b>\$784,800</b>	<b>\$215,515</b>	10.83% of Construction Costs
<b>TOTAL PROJECT COSTS</b>	<b>\$50,694,301</b>	<b>\$373,490</b>	<b>\$5,879,131</b>	<b>\$14,702,566</b>	<b>\$12,866,320</b>	<b>\$10,357,525</b>	<b>\$7,515,217</b>	





# Capital Improvement Request Form Part I

5a

Project/Program Title: Evidence Warehouse -Storage Upgrade Requesting Department: Police  
 Prepared By/Phone Ext: John Ledvina 935-7495 Department Head Signature: [Signature]  
 Account No: PL120040100

A) Department Priority 4 of 10 Useful Life 30 Years Level of Need  Essential  Important  Desired  
 Type of Project  New  Replacement  Repair  On-Going Program Project/Program Scope  Fully Defined  Partially Defined

B) Description  
**Infrastructure**  
 Street Related  Sewer  Water  Street Lighting  Communications  Recreation  
 Sidewalks  Alleys  Bridge  Environmental  Port  Parking  
**Building**  
 Roof  Windows  HVAC  Electrical  Restroom  Security  Exterior  Entire Facility  
 ADA  Office Remodeling  New Building  Elevators  Garage  Mechanical  
**Miscellaneous Development**  
 Economic  Information Systems  Equipment  Other Improved storage system

C) Project/Program Duration  
 One Year  Yes  No  
 On-Going Program  Yes  No  
 Multi-Year  Yes  No Number of Years \_\_\_\_\_

D) Total Positions \_\_\_\_\_ Total FTEs \_\_\_\_\_

Position Title	No. of Positions	FTEs	Salaries \$
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

E) In Six Year Capital Improvement Plan  
 Yes  2009-2014  2010-2015  Yes, Modified  New Request

F) Project/Program Justification  
 The entire fourth floor of the Evidence Warehouse is used solely to store homicide evidence. It is near capacity, and additional conventional shelving (Est. \$10,000) could extend the capacity one to two years. A movable shelving system that eliminates aisle space would increase existing capacity up to 80% adding SEVEN PLUS years to the capacity of the homicide floor.  
 Maintaining all homicide evidence is required throughout the term of incarceration of persons convicted. This and the need to easily retrieve "cold case" evidence for further investigation justifies storing it all in one location.

G) Additional Comments  
 2011 Estimate is based on a vendor quote for installing track, shelving, and a propulsion mechanism. Depending upon estimates the shelves could be moved mechanically or electrically. Since the shelves are modular, they could be added as funds are released over a multi-year time span.

# Capital Improvement Request Part II

Requesting Department: Police

Project/Program Title: Evidence Warehouse - Storage Upgrade

Account No: PL120040100

Year	Tax Levy/Borrowing	Grant & Aid	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010						\$0
2011 Budget Request	\$100,000					\$100,000
2012 Projection						\$0
2013 Projection						\$0
2014 Projection						\$0
2015 Projection						\$0
2016 Projection						\$0
<b>Total Six Year Cost</b>	\$100,000	\$0	\$0	\$0	\$0	\$100,000
<b>Total Project Cost</b>	\$100,000	\$0	\$0	\$0	\$0	\$100,000

Life to Date Expenditures (Project Only)

	2011	2012	2013	2014	2015	2016
\$0	\$0	\$0	\$0	\$0	\$0	\$0

Available Cost Estimate:

- Thorough Cost Estimate  2011
- Limited Information  2012
- Based on Cost of Similar Projects  2013
- Unsupported  2014

Were cost estimates confirmed by another source?

Are cost estimates based on industry standards?

Will city employees be performing any portion of the work?

Did you perform a cost/benefit analysis?

- |           |                                     |                          |                          |                          |                          |                          |
|-----------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|           | 2011                                | 2012                     | 2013                     | 2014                     | 2015                     | 2016                     |
| Yes       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| No        | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Uncertain | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

How will this project impact city operating expenditures?

- Increase   
  Decrease   
  None

Estimated Start Date: 01/01/11

Estimated Completion Date: 05/01/11

Department Head Signature



Prepared By/Phone Ext

John Ledvina 935-7495 / Phillip Tuczynski 935-7668



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- MegaStation Carousels
- MegaLift Vertical Lifts
- Moveable Rack
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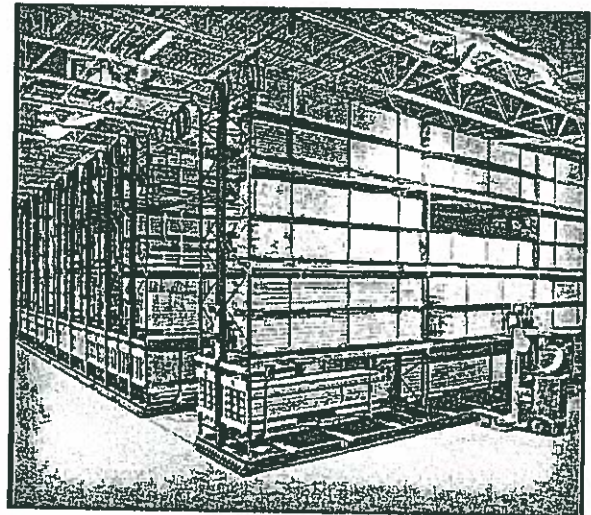
- Library Systems
- Art and Museum Storage
- Industrial Storage
- Document Management
- Managing Paper Files
- New Products: Shredders
- Storage of Paper Files
- Montel
- Shelving
- Montel Shelving for Files
- Moveable Shelving
- Compact Shelving
- Kardex Systems
- Kardex Lektriever
- Times Two Rotating Files
- Mobile Shelving
- MegaStar Carousels
- MediaStation Carousels
- Mobile Filing

- Automated Storage
- Mobile Storage
- Vertical Office Carousels
- MediaStation Carousels
- Rotary Files
- Industrial Carousels
- Industrial Lifts

- Microfilm Products
- Document Imaging
- Professional Services
- GSA Contracts
- Net File Manager
- Electronic Medical Records
- Net Labels
- Purchase On Line
- Useful Links

**Donnegan Systems** partners with Montel to provide our industrial customers with the warehouse / factory space saving rack: **Mobilex HD**

The Montel Mobilex HD Rack System lets you make the most of one of your company's biggest investments - floor space. With racks mounted on movable carriages, the system creates access aisles - for people and for trucks - only when and where they're needed. So aisles not in immediate use aren't taking up valuable floor space that could be devoted to revenue-producing activity.




This versatile system is surprisingly nimble while carrying loads over 500,000 pounds on carriages up to 120' in length. Complete operator safety is assured with a number of standard and optional safety features.

Donnegan can also provide the software that allows you to use a personal computer with your Montel Mobilex HD Rack System to speed retrieval, increase productivity, and provide up-to-the-minute inventory information.

Donnegan Systems will work with you to design the system that best fits your needs, and will train your employees in its use.

For an on-site analysis of how a Montel Mobilex HD Rack System can double your capacity-or cut in half the floor space devoted to storage - call Donnegan Systems!



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  - Rolling Storage Shelving
  - Movable Shelving**
  - Kardex Lektriers
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- Engineering
- Government

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- Art and Museum Storage
- Industrial Storage
- Document Management
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## Donnegan Systems: Movable Shelving

Media continues to grow whether paper, tapes, cartridges, or small parts (SKU's) -- making storage space a major consideration - a major cost! The concept of Mobile Storage - Movable Shelving- eliminates all those wasted aisles - reducing them to a manageable number, while still providing for the multiple access required by your application.



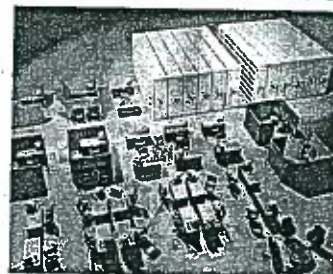
A Document Management Specialist from Donnegan Systems will survey your needs, provide you with professional movable shelving layouts and configurations to assure maximum utilization of floor space in keeping with your special retrieval needs.

Whether Manual, Mechanical or Electrical movable shelving modules are required, Donnegan Systems specialists will recommend only the right movable shelving system - tailored to your needs!

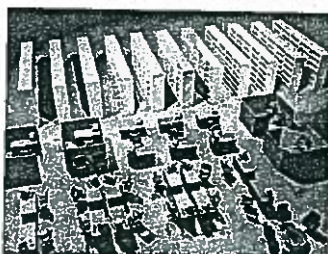
**Montel High Density Mobile / Movable Shelving Doesn't Waste Floor Space!**



High Activity Storage Area combines fixed and movable shelving with multiple access points to speed retrieval time.



Low-Activity Storage Areas can be designed with a single access point to deliver the highest storage capacity.



Traditional Storage methods waste 50% or more of valuable floor space on unnecessary, Non-Revenue producing access aisles.

### C. FELONY EVIDENCE (EXCEPT HOMICIDE AND BIOLOGICAL DNA)

Felony evidence (except homicide and biological DNA) shall generally be retained as follows:

1. Where no suspect has been identified, or where the suspect has been identified but a warrant has not been issued, the maximum retention period is six (6) years from the date of offense.
2. Where a suspect has been identified and a warrant has been issued, the evidence shall be retained until the warrant has been served and the case processed through the criminal justice system. The responsible member shall receive yearly "Disposition Orders" to verify a "HOLD" status of the evidence.
3. Where a suspect has been charged and convicted, the evidence may be disposed of one (1) year following the date of sentencing if no appeal has been filed.
4. Time Limitation on Prosecutions (WI SS 939.74) shall be taken into consideration in the disposal of evidence.
5. Photographing evidence is an alternative to retaining evidence; however, the DA's Office or a CIB supervisor must approve this alternative.

### D. HOMICIDE EVIDENCE

1. If the case is cleared by an arrest and the defendant(s) was sentenced, the evidence shall be retained until the defendant(s) is completely cleared of the criminal justice system or has served his/her complete sentence, including probation, parole, or extended supervision.
2. If the case is not cleared, the evidence shall be retained indefinitely.

### E. DNA/BIOLOGICAL MATERIAL EVIDENCE

1. As mandated by WI SS 968.205, evidence containing any biological material in connection with an investigation that results in a criminal conviction, delinquency adjudication, or an equivalent commitment for mental defect, shall be retained until every convicted person has completed their sentence, including probation or extended supervision.
2. Biological evidence may be retained in the PCS, WI State Crime Laboratory, or other authorized facility.

### F. SUICIDE EVIDENCE

Suicide evidence shall be retained for a period of one (1) year after the Medical Examiner's ruling that the death was, in fact, a suicide.

**Ledvina, John**

---

**From:** Tuczynski, Phillip  
**Sent:** Friday, March 19, 2010 1:44 PM  
**To:** Ledvina, John; Moore, Gregory  
**Cc:** Fells, Joel; Canzoneri, Thomas; Krusick, John  
**Subject:** FW: Mobile Aisle Systems  
**Attachments:** RFQ-03-17-2010-AS-A-B-C-Drg.pdf

This is a more precise estimate for the mobile storage system for the Proerty Warehouse. The total estimate for A+B+C sorage areas would be \$64,851.

Phil Tuczynski

---

**From:** Eric Froemming [mailto:Efroemming@hasselmateriahhandling.com]  
**Sent:** Thu 3/18/2010 3:35 PM  
**To:** Tuczynski, Phillip; Canzoneri, Thomas; Fells, Joel  
**Subject:** Mobile Aisle Systems

Good Afternoon Gentlemen,

Attached is the drawing for the mobile aisle systems we are proposing. Below is the budget pricing and box storage capacity. The shelves are currently 48"w x 36"d or 48"w x 18"d making a tight configuration but most effective with storage capacity.

48"W x 36"D Shelves store boxes 2H x 2D x 3W  
48"W x 18"D shelves store boxes 2H x 1D x 3W

**Area A**

\$ 22,849.00

Box Storage Capacity: 1476 Boxes

**Area B**

\$ 23,736.00

Box Storage Capacity: 1608 Boxes

**Area C**

\$ 18,266.00

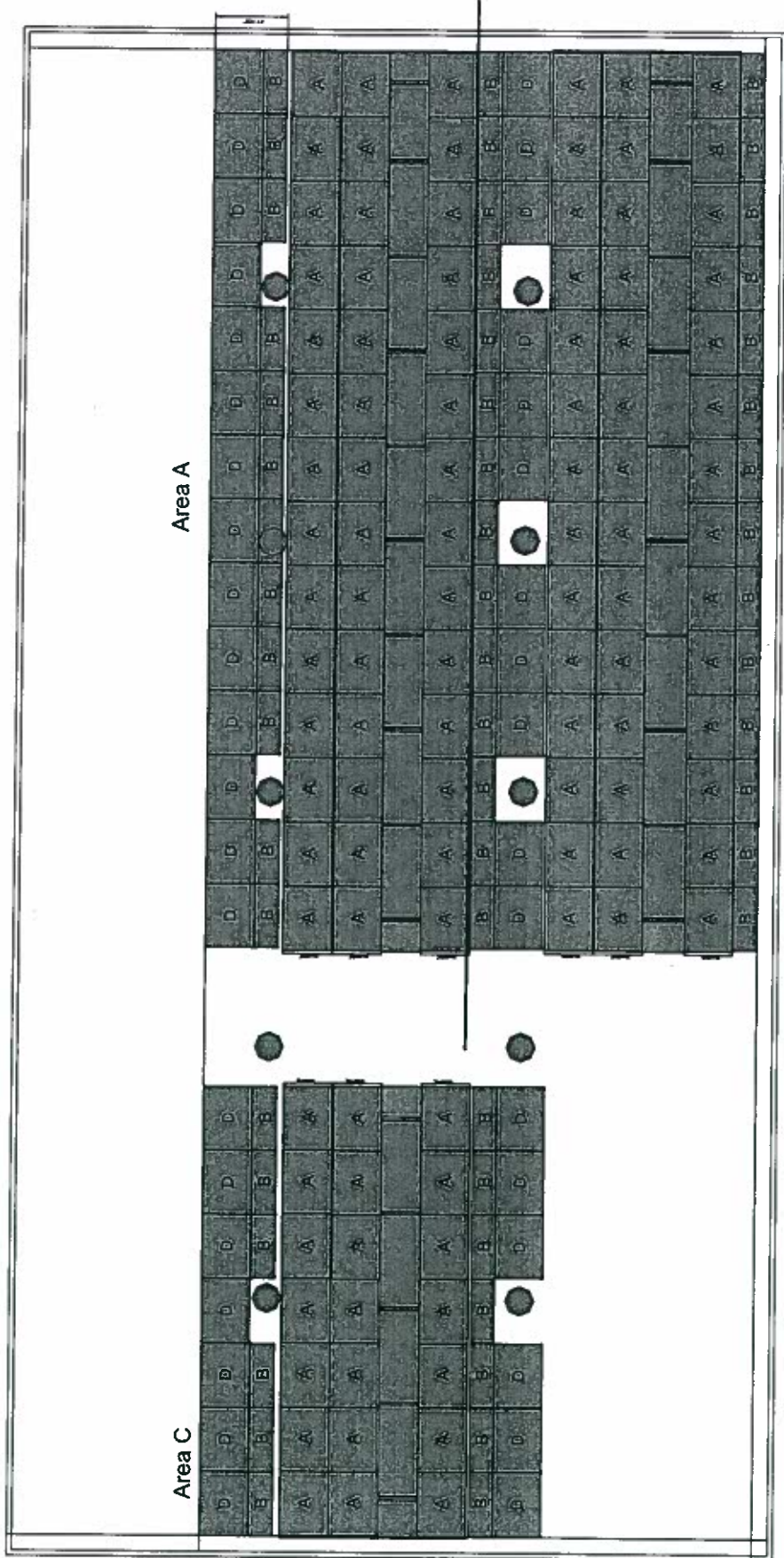
Box Storage Capacity: 972 Boxes

Thanks and I will follow up tomorrow.

Best Regards,  
Eric Froemming

Hassel Material Handling  
2450 W. Silver Spring Dr.  
Milwaukee, WI 53209  
P: 414-616-6680  
F: 414-616-6696

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Area C

Area A

Area B

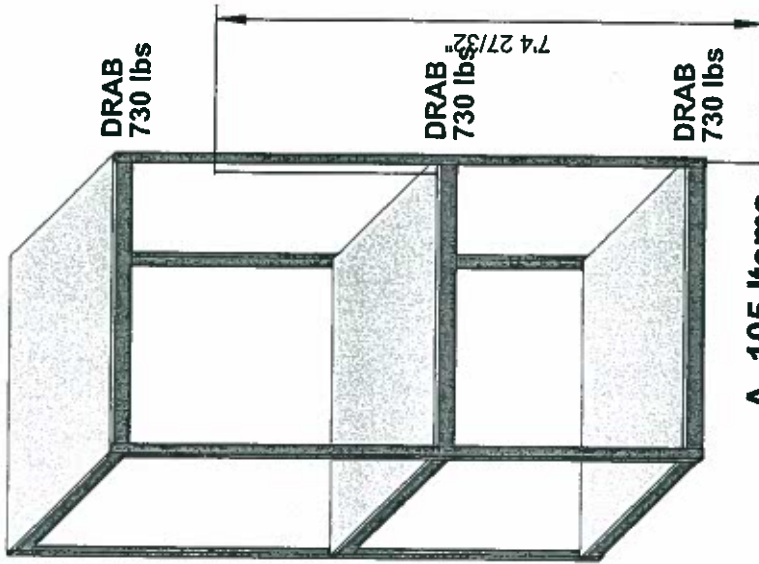


Carl Michalski, Region Sales Office Burlington, WI 53105  
PH: 262-642-2957 FAX: cmichalski@borroughs.com

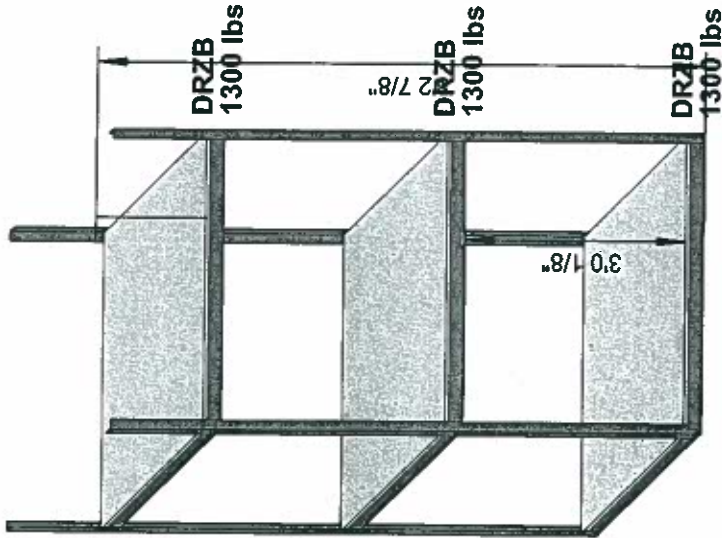
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Filing Inches: 28080" - Point load: 68.39 lbs/sq in - Srf press: 11.02 lbs/sq ft

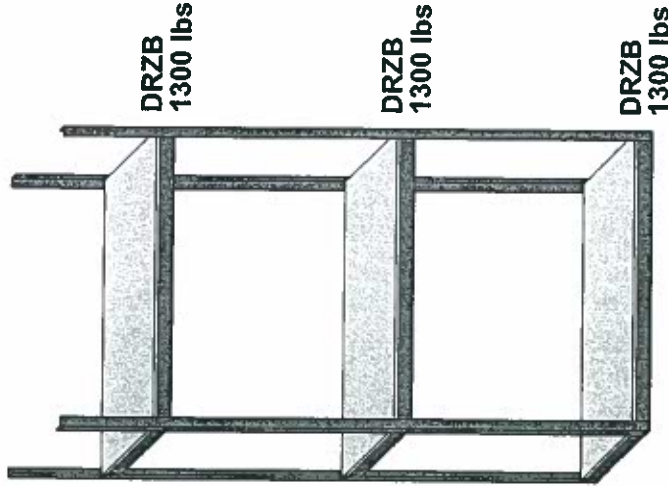
DRAWN BY: DATE:	SCALE:	JOB LOCATION:	JOB NAME:
		Milwaukee Police Dept. Milwaukee, WI	Hassel Material handling Co.
CSM03/18/2010		1:125	



**A, 105 Items**  
 48" x 36" x 8'0"  
 3 Levels



**D, 38 Items**  
 48" x 36" x 8'0"  
 3 Levels



**B, 52 Items**  
 48" x 18" x 8'0"  
 3 Levels



Carl Michalski, Region Sales Office Burlington, WI 53105  
 PH: 262-642-2957 FAX: cmichalski@borroughs.com

PAGE DESCRIPTION:

Static B-Span Price list: 16-Jun,2008 Price File

Filing inches: 28080" - Point load: 68.39 lbs/sq in - Srf press: 11.02 lbs/sq ft

DRAWN BY: DATE:	SCALE:	JOB LOCATION:	JOB NAME:
		Milwaukee Police Dept. Milwaukee, WI	Hassel Material handling Co.
CSM03/18/2010		1:30	



**Ledvina, John**

---

**From:** Tuczynski, Phillip  
**Sent:** Friday, March 12, 2010 1:14 PM  
**To:** Ledvina, John  
**Cc:** Moore, Gregory  
**Subject:** FW: Mobile Aisle Budget  
**Attachments:** RFQ-03-04-2010-Base Plan-Drg.pdf; RFQ-03-04-2010-Option A-DRG.pdf

This is the rough estimate \$55, 000 to \$100,000 for two types of mobile shelving. The rep we were talking to will have a better estimate Monday, 3-15-10.

Lt. Tuczynski

Property Control Section

---

**From:** Eric Froemming [mailto:Efroemming@hasselmateralhandling.com]  
**Sent:** Thu 3/11/2010 2:56 PM  
**To:** Tuczynski, Phillip; Canzoneri, Thomas; Fells, Joel  
**Subject:** Mobile Aisle Budget

Hello Guys,

Here are the two concepts for the mobile aisle systems we discussed. I have a meeting tomorrow to review these as I think we can improve on the layout and I will get you some updates shortly thereafter. Thanks for you patience.

Base Plan  
...\$ 100,000.00 Budgetary Price  
Approximately...3500 boxes

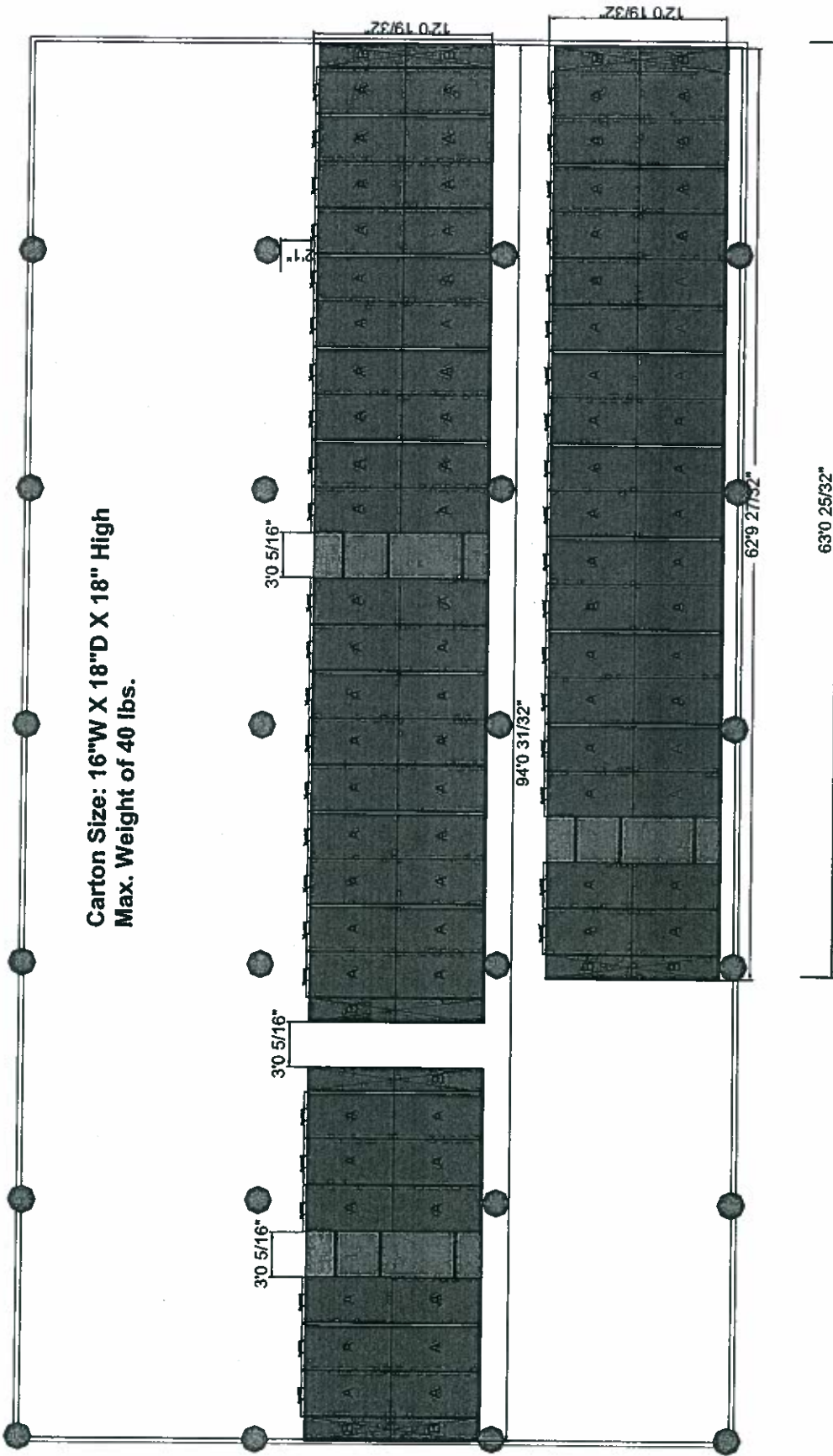
Plan A  
...\$ 55,000.00 Budgetary Price  
Approximately: ...3800 boxes


Best Regards,  
Eric Froemming

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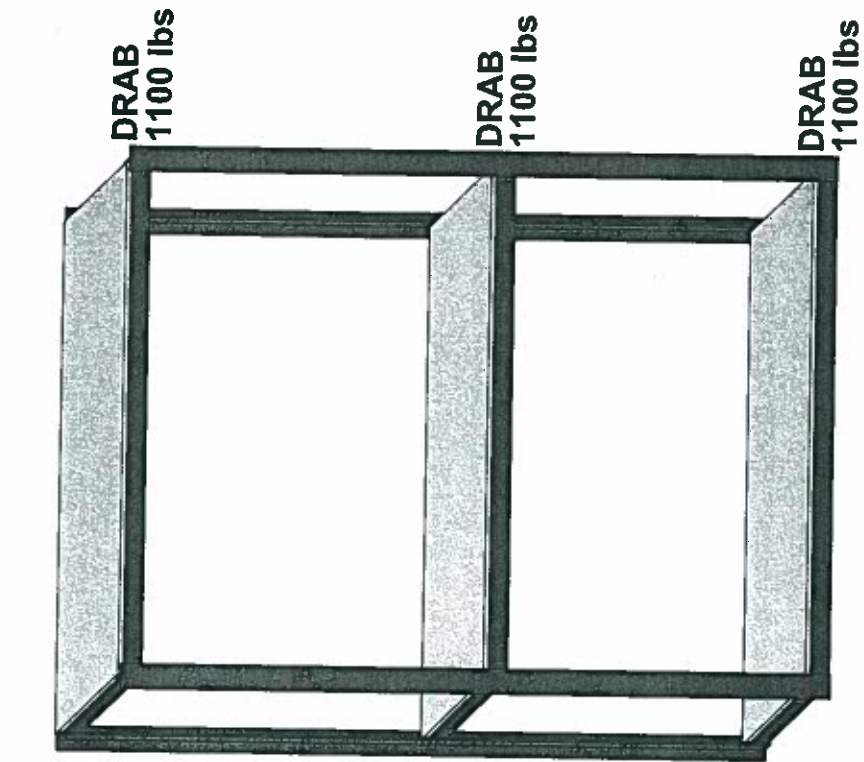
Carton Size: 16"W X 18"D X 18" High  
 Max. Weight of 40 lbs.



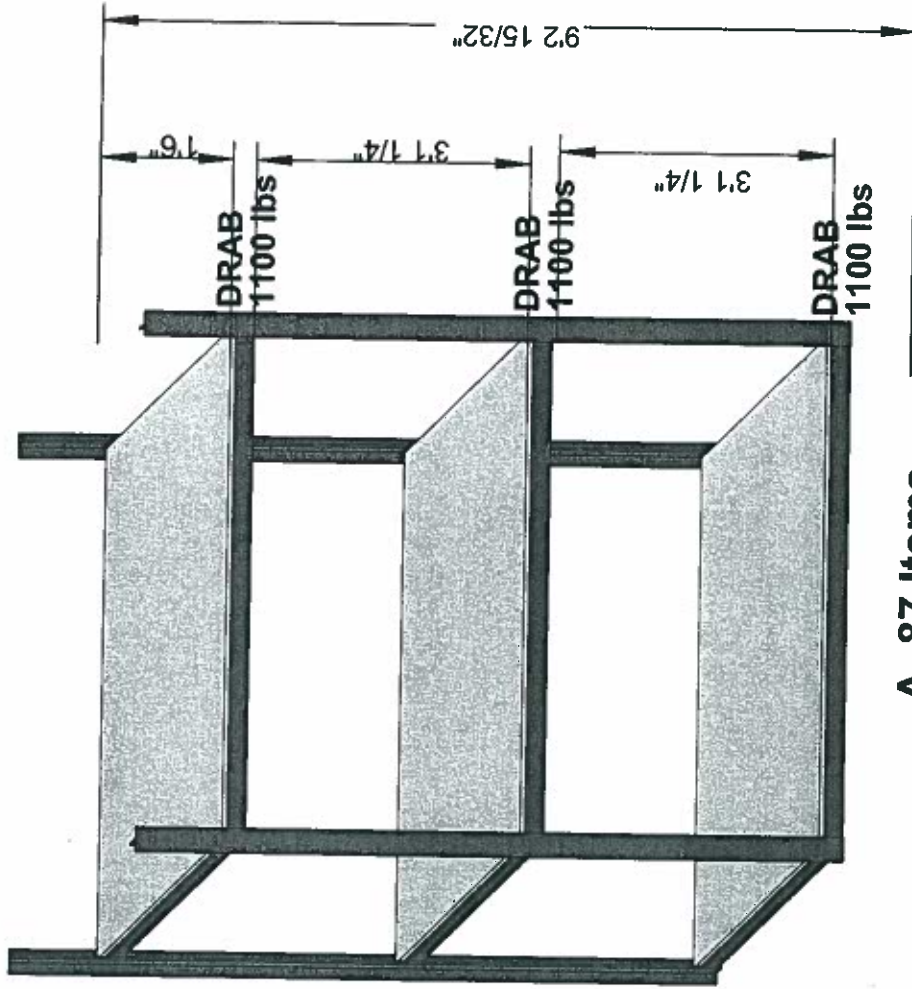
 <b>Borroughs</b> CORPORATION Carl Michalski, Region Sales Office Burlington, WI 53105 PH: 262-642-2957 FAX: cmichalski@borroughs.com	DRAWN BY: DATE:	SCALE:	JOB LOCATION:	JOB NAME:
	CSM03/1/2010	1:126	Hassel Material handling Co.	
PAGE DESCRIPTION:				
Price list: 16-Jun,2008 Price File Filing inches: 20079" - Point load: 35.12 lbs/sq in - Srf press: 15.78 lbs/sq ft				

RFQ-03-04-2010 Base Plan-Dra. 0 dt

172




**B, 10 Items**  
**69" x 18" x 8'0"**  
**3 Levels**

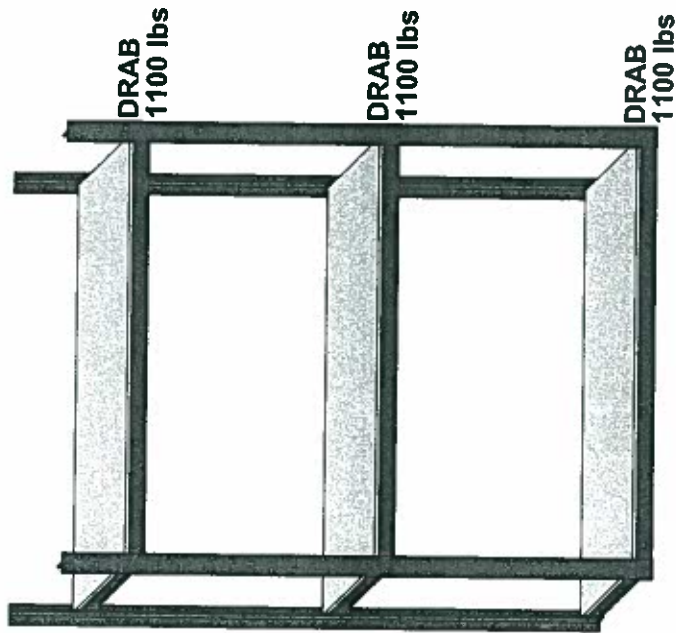


**A, 87 Items**  
**69" x 36" x 8'0"**  
**3 Levels**

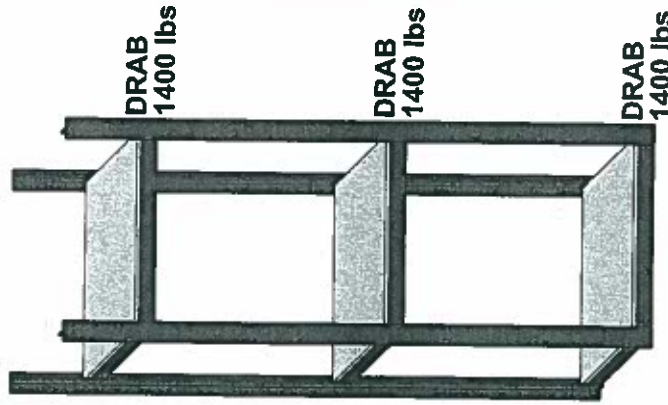
Base Plan (su)

 <b>Borroughs</b> CORPORATION Carl Michalski, Region Sales Office Burlington, WI 53105 PH: 262-642-2957 FAX: cmichalski@borroughs.com	DRAWN BY: DATE:	SCALE:	JOB LOCATION:	JOB NAME:
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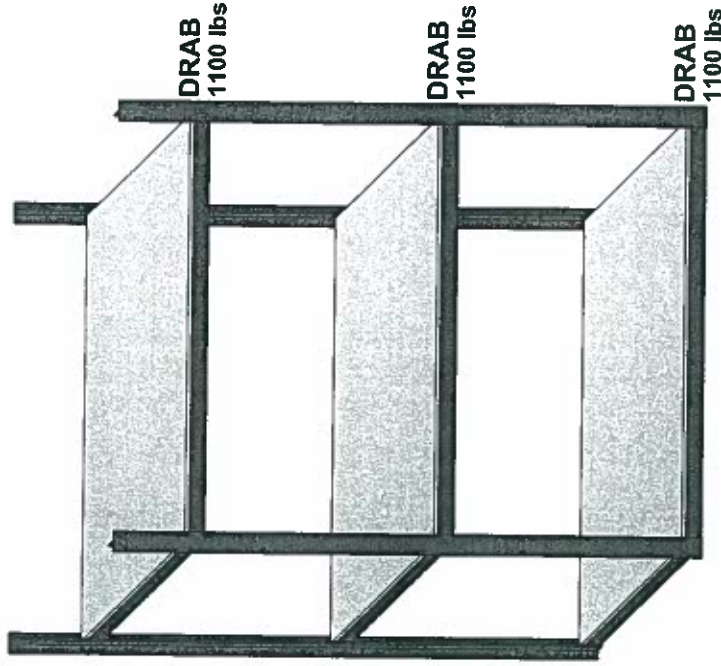
2/2



**A, 41 Items**  
69" x 18" x 8'0"  
3 Levels



**B, 10 Items**  
32" x 18" x 8'0"  
3 Levels



**C, 72 Items**  
69" x 36" x 8'0"  
3 Levels

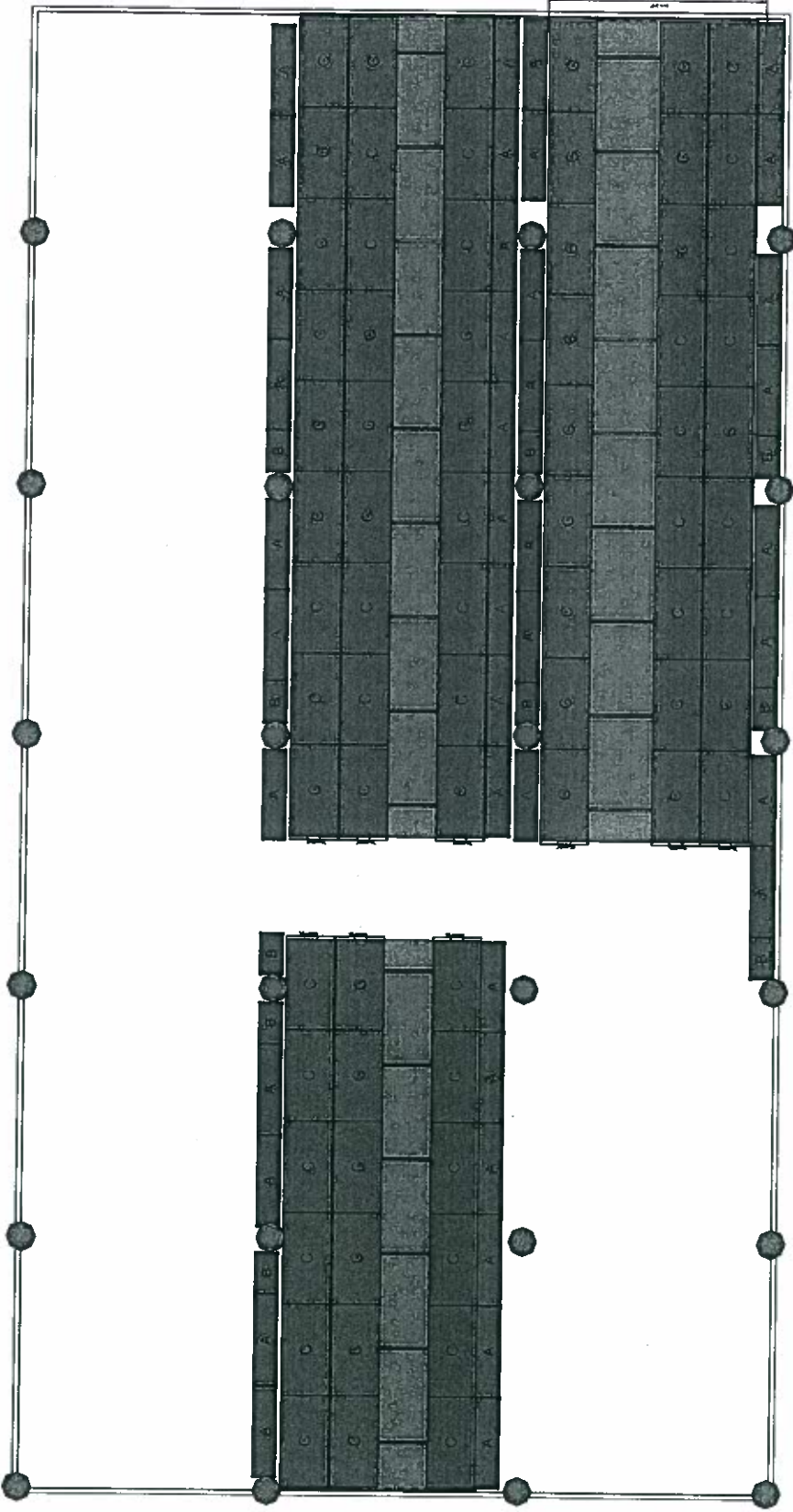


**Borroughs CORPORATION**  
Carl Michalski, Region Sales Office Burlington, WI 53105  
PH: 262-642-2957 FAX: cmichalski@borroughs.com

DRAWN BY: DATE:	SCALE:	JOB LOCATION:	JOB NAME:
CSM03/11/2010	1:30	Milwaukee Police Dept. Milwaukee, WI	Hassel Material handling Co.
PAGE DESCRIPTION:			
Milwaukee P.D. Price list: 16-Jun,2008 Price File			
Filing Inches: 24351" - Point load: 46.17 lbs/sq in - Srf press: 7.04 lbs/sq ft			


RFQ-03-04-2010-0211-A-DRG dlf

1/2



Option A (p2)

2/2

 <b>Borroughs</b> CORPORATION Carl Michalski, Region Sales Office Burlington, WI 53105 PH: 262-642-2957 FAX: cmichalsk@borroughs.com	DRAWN BY: DATE:	SCALE:	JOB LOCATION:	JOB NAME:
	CSM03/1/2010	1:130	Milwaukee Police Dept. Milwaukee, WI	Hassel Material handling Co.
PAGE DESCRIPTION:				
Milwaukee P.D. Price list: 16-Jun,2008 Price File Filtrig Inches: 24351" - Point load: 46.17 lbs/sq in - Srf press: 7.04 lbs/sq ft				

# Capital Improvement Request Form Part I

**Project/Program Title:** District Station Renovation Program - Replace Radio Shop HVAC Roof Units      **Requesting Department:** Police  
**Prepared By/Phone Ext:** John Ledvina 935-7495      **Department Head Signature:** *[Signature]*  
**Account No:** \_\_\_\_\_

**A) Department Priority** 5 of 10      **Useful Life** 10-12 Years      **Level of Need**  Essential     Important     Desired  
**Type of Project**     New     Replacement     Repair      **Project/Program Scope**  Fully Defined     Partially Defined  
 On-Going Program

**B) Description**  
**Infrastructure**  
 Street Related     Sewer     Water     Street Lighting     Communications     Recreation  
 Sidewalks     Alleys     Bridge     Environmental     Port     Parking  
**Building**  
 Roof     Windows     HVAC     Electrical     Restroom     Security     Exterior     Entire Facility  
 ADA     Office Remodeling     New Building     Elevators     Garage     Mechanical  
**Miscellaneous Development**  
 Economic     Information Systems     Equipment     Other \_\_\_\_\_

**C) Project/Program Duration**  
 One Year             Yes     No  
 On-Going Program     Yes     No  
 Multi-Year             Yes     No      Number of Years \_\_\_\_\_

**D) Total Positions** \_\_\_\_\_      **Total FTEs** \_\_\_\_\_

Position Title	No. of Positions	FTEs	Salaries
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____

**E) In Six Year Capital Improvement Plan**  
 Yes     2009-2014     2010-2015       Yes, Modified       New Request

**F) Project/Program Justification**  
 The existing Radio Shop HVAC roof top units are on a ten-year replacement cycle. The split HVAC unit located on the Mezzanine Level is approximately 15 years old and needs increasingly frequent repairs to continue operating.  
  
 There is a possibility of losing radio communications equipment if HVAC overheats and ceases to operate for a period of time.

**G) Additional Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# Capital Improvement Request Part II

Requesting Department: Police

Project/Program Title: District Station Renovation Program - Repl Radio Shop HVAC

Account No: \_\_\_\_\_

Year	Tax Levy/Borrowing	Grant & Aid	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010						\$0
2011 Budget Request	\$200,000					\$200,000
2012 Projection						\$0
2013 Projection						\$0
2014 Projection						\$0
2015 Projection						\$0
2016 Projection						\$0
<b>Total Six Year Cost</b>	\$200,000	\$0	\$0	\$0	\$0	\$200,000
<b>Total Project Cost</b>	\$200,000	\$0	\$0	\$0	\$0	\$200,000

Life to Date Expenditures (Project Only)

\$0	\$0	\$0	\$0	\$0	\$0
-----	-----	-----	-----	-----	-----

Available Cost Estimate:

	2011	2012	2013	2014	2015	2016
Thorough Cost Estimate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Limited Information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Based on Cost of Similar Projects	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unsupported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Were cost estimates confirmed by another source?  Yes  No  Uncertain
- Are cost estimates based on industry standards?  Yes  No  Uncertain
- Will city employees be performing any portion of the work?  Yes  No  Uncertain
- Did you perform a cost/benefit analysis?  Yes  No  Uncertain

How will this project impact city operating expenditures?  Increase  Decrease  None

Estimated Start Date: 03/01/11

Estimated Completion Date: 12/31/11

Department Head Signature



Prepared By/Phone Ext

JohnLedvina935-7495 GordyGregg/DaveSkorzewski935-7534



2011 Replacement Equipment Request

Submitted by: Gordon Gregg, Police Building & Fleet Manager  
Facilities Service Section

Date: 3-1-10

Equipment Requested (be specific): RADIO SHOP

Replace three HVAC, rooftop heating and cooling units that were last replaced in 2001, also replace the mezzanine HVAC split cooling system that is approx. 15 years old.

Cost estimate (attach quotes, literature, etc.):

The budget for this replacement is approx. \$200,000.00 based on similar replacement costs at district #5 done in 2009 and administered by DPW

Age of Equipment to be replaced:

Ten years old

Condition of equipment to be replaced:

This HVAC equipment will reach its life expectancy of ten years in 2011

Problems with equipment (breakdowns, high repair costs, lack of replacement parts, etc.):

We make constant repairs due to units being outside in the elements.

Consequences of not replacing this equipment:

Could loose radio contact between emergency vehicles if the Radio Shop equipment overheats during extreme hot days in the summer.

Potential Grant funding (if known):

REC'D  
-1 17 2010 00 19



Any other Information pertinent to this request:

All of the MPD roof top HVAC equipment is on a ten year replacement cycle.

RECEIVED  
OCT 19 2010

# Capital Improvement Request Form Part I

(56)

Project/Program Title: Evidence Warehouse-Security Upgrade

Requesting Department: Police

Prepared By/Phone Ext: John Ledvina 935-7495

Department Head Signature: *Edward J. ...*

Account No: PL120040100

A) Department Priority 6 of 10 Useful Life 20 Years Level of Need  Essential  Important  Desired

Type of Project  New  Replacement  Repair  On-Going Program

Project/Program Scope  Fully Defined  Partially Defined

B) Description

**Infrastructure**

Street Related  Sewer  Water  Street Lighting  Communications  Recreation

Sidewalks  Alleys  Bridge  Environmental  Port  Parking

**Building**

Roof  Windows  HVAC  Electrical  Restroom  Security  Exterior  Entire Facility

ADA  Office Remodeling  New Building  Elevators  Garage  Mechanical

**Miscellaneous Development**

Economic  Information Systems  Equipment  Other \_\_\_\_\_

C) Project/Program Duration

One Year  Yes  No

On-Going Program  Yes  No

Multi-Year  Yes  No Number of Years \_\_\_\_\_

D)

Position Title	No. of Positions	FTEs	Salaries
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____

E) In Six Year Capital Improvement Plan

Yes  2009-2014  2010-2015  Yes, Modified  New Request

F) Project/Program Justification

The need for an interior building security update was identified in a 2009 report from the Professional Performance Division. The report noted the Evidence Storage Warehouse had restricted access to the building, but not to evidence storage floors/areas within the building. By restricting access and documenting the movement of authorized personnel in the building, the security of all types of stored evidence would be significantly improved.

G) Additional Comments

2011 Estimate based on a vendor quote for hardwiring multi-format proximity readers at all interior and exterior doors. Eight existing door are outdated and may need replacement to work with the proximity readers. A second phase of the update would replace nine analog non-recording black and white security cameras with color digital cameras recording and storing to a main server.

# Capital Improvement Request Part II

Requesting Department: Police

Project/Program Title: Evidence Warehouse - Security Upgrade

Account No: PL120040100

Year	Tax Levy/Borrowing	Grant & Aid	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010						\$0
2011 Budget Request	\$175,000					\$175,000
2012 Projection						\$0
2013 Projection						\$0
2014 Projection						\$0
2015 Projection						\$0
2016 Projection						\$0
<b>Total Six Year Cost</b>	\$175,000	\$0	\$0	\$0	\$0	\$175,000
<b>Total Project Cost</b>	\$175,000	\$0	\$0	\$0	\$0	\$175,000

Life to Date Expenditures (Project Only)	\$0	\$0	\$0	\$0	\$0	\$0
--	-----	-----	-----	-----	-----	-----

<b>Available Cost Estimate:</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
Thorough Cost Estimate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Limited Information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Based on Cost of Similar Projects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unsupported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Were cost estimates confirmed by another source?  Yes  No  Uncertain
- Are cost estimates based on industry standards?  Yes  No  Uncertain
- Will city employees be performing any portion of the work?  Yes  No  Uncertain
- Did you perform a cost/benefit analysis?  Yes  No  Uncertain

How will this project impact city operating expenditures?  Increase  Decrease  None

Estimated Start Date: 01/01/11

Estimated Completion Date: 05/01/11

Department Head Signature

*Edward A. Flynn*

Prepared By/Phone Ext

John Ledvina 935-7495 Phillip Tuczynski 935-7668

515



W226 N781 Eastmound Drive  
 Waukesha, WI 53186  
 Phone: (262) 522-9800  
 Fax: (262) 522-9600  
 www.allisonsystems.com

# QUOTATION

Oct 30, 2009

**Quote To:**

Milwaukee Police-3rd District  
 Tammi Linski  
 2333 N. 49th Street  
 Milwaukee, WI 53210-2923  
 Phone: (414)935-7426 ext: direct  
 Fax: (414)935-7425 ext: Tammi

**Ship To:**

Milwaukee Police-3rd District  
 Tammi Linski  
 2333 N. 49th Street  
 Milwaukee, WI 53210-2923  
 Phone: (414)935-7426 ext: direct  
 Fax: (414)935-7425 ext: Tammi

Ship Via Best Method

FOB

Sales Rep Robert Czajka

E-mail rczajka@allisonsystems.com

Quote No. UNSAVED

Part #	Description	Qty	Unit Price	Ext. Price
SC-410-BB-NC	ASI Door Control Panel and Enclosure	30	\$750.00	\$22,500.00
AY-H20B	Multi Format Proximity Reader	42	\$149.50	\$6,279.00
HES-5900	Electric Door Strike	6	\$194.00	\$1,164.00
AC-600S	Magnetic Door Holder 600 pound holding force Included Mounting Bracket and Installation JIG	22	\$302.00	\$6,644.00
SR-1045	Surface Mounted Door Contact WIDE GAP	28	\$11.75	\$329.00
SR-2315AL	Overhead Door Contacts	2	\$49.00	\$98.00
ASI-ADD	Relay for Interface into Garage door opener	2	\$380.00	\$760.00
AX-600ULPD4	6 amp Power supply Battery Backed Up Batteries Included	8	\$660.75	\$5,286.00
ROM	Installation Services by ASI and Subcontractor INCLUDE: Install 42 card readers at 30 door locations Installation of all Magnetic Locks, Door Strikes Interface to Garage Door Installation of Door Contacts Install Plywood in IT room for panel mounting Install all access control panel, power supplies in IT room Interface the access control panel with the fire alarm panel located in the IT room to open all door upon alarm condition. Install all surface rough in boxes, raceway at door locations to the ceilings for device and cable installations. Provide all wire and extend low voltage control, monitor and power cables from door locations to access control panels in the IT room. All Cables will be run exposed on the ceiling using the appropriate cable fasteners. Technical Installation programming and testing fire alarm tie in ASI termination of all control panels, Test and certification Database server technical resources services for change over to new server Project management of technical services and installation  Estimated 2-3 months to complete	1	\$130,017.00	\$130,017.00

Total **\$173,077.00**

All work to be done on a Monday thru Friday schedule excluding Holidays.  
 Price does not include patching, painting, or asbestos abatement.

•Payment Terms: 50%down Balance upon completion

•Price does not include tax.

•Price does not include shipping.

# Capital Improvement Request Form Part I

(4)

**Project/Program Title:** District Station Renovation Program - Comm/Data Restrooms      **Requesting Department:** Police  
**Prepared By/Phone Ext:** John Ledvina / 935-7495      **Department Head Signature:** *Edward J. ...*  
**Account No:** \_\_\_\_\_

A) Department Priority 9 of 10 Useful Life 20 Years      Level of Need     Essential     Important     Desired

Type of Project     New     Replacement     Repair      Project/Program Scope     Fully Defined     Partially Defined

On-Going Program

B) Description

**Infrastructure**

Street Related     Sewer     Water     Street Lighting     Communications     Recreation

Sidewalks     Alleys     Bridge     Environmental     Port     Parking

**Building**

Roof     Windows     HVAC     Electrical     Restroom     Security     Exterior     Entire Facility

ADA     Office Remodeling     New Building     Elevators     Garage     Mechanical

**Miscellaneous Development**

Economic     Information Systems     Equipment     Other      Personnel need for additional accommodations

C) Project/Program Duration

One Year             Yes     No

On-Going Program     Yes     No

Multi-Year             Yes     No      Number of Years \_\_\_\_\_

Total Positions _____		Total FTEs _____	
Position Title	No. of Positions	FTEs	Salaries \$
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____

E) In Six Year Capital Improvement Plan

Yes     2009-2014     2010-2015     Yes, Modified     New Request

F) Project/Program Justification

The Men's and Women's restrooms adjoining the Communications Center on the Third Floor are shared by Telecommunicators, Dispatchers, other third floor staff, and in-service trainees using the nearby Emergency Operations Center conference room. The 911 Telecommunicators and Dispatchers need quick, unrestricted access to a restroom in conjunction with their job duties.

G) Additional Comments

Estimate is for plumbing and fixtures only. DPW Administration fees and roughing in the room(s) additional.

# Capital Improvement Request Part II

Requesting Department: Police

Project/Program Title: District Station Renovation Program - C/D Restrooms

Account No: \_\_\_\_\_

Year	Tax Levy/Borrowing	Grant & Aid	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010	\$0					\$0
2011 Budget Request	\$100,000					\$100,000
2012 Projection						\$0
2013 Projection						\$0
2014 Projection						\$0
2015 Projection						\$0
2016 Projection						\$0
<b>Total Six Year Cost</b>	\$100,000	\$0	\$0	\$0	\$0	\$100,000
<b>Total Project Cost</b>	\$100,000	\$0	\$0	\$0	\$0	\$100,000

Life to Date Expenditures (Project Only)	\$0	\$0	\$0	\$0	\$0	\$0
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Available Cost Estimate:	2011	2012	2013	2014	2015	2016
Thorough Cost Estimate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Limited Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Based on Cost of Similar Projects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unsupported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Were cost estimates confirmed by another source?  Yes  No  Uncertain
- Are cost estimates based on industry standards?  Yes  No  Uncertain
- Will city employees be performing any portion of the work?  Yes  No  Uncertain
- Did you perform a cost/benefit analysis?  Yes  No  Uncertain

How will this project impact city operating expenditures?  Increase  Decrease  None

Estimated Start Date: 03/01/11

Estimated Completion Date: 12/31/11

Department Head Signature: 

Prepared By/Phone Ext: JohnLedvina9357495 GordyGreggDaveSkorzewski9357534

(7)

SUBMITTED BY Jan Reynolds

3/1/10

2011 Additional Equipment Request

Equipment Requested (be specific Install 3<sup>rd</sup> floor Bath room Men's and ladies

Description of anticipated benefits to Department (improving efficiency, effectiveness, safety, etc.): improve the bath Facility on third floor, 911 operations would not be disturbed

Cost estimate (attach quotes, literature, etc.): ~~\$50,000.00~~ <sup>\$66,400.00</sup> PLUS CONTRIBUTION TO SUPPLY  
DRAIN LINES.

Related costs (computer drops, electrical requirements, phone lines, work stations, etc.):  
Toilets, urinals, vanity, Plumbing, Drywall. Walls, Electrical. Drop Ceilings

Consequences of not purchasing this equipment: Ease of operation

Potential Grant funding (if known): none

Any other Information pertinent to this request: E.O. C Meetings

RECEIVED  
MAY 10 2010

March 1, 2010

MPD  
749 W State St.  
Milwaukee, WI 53233  
Attn: Gordon Gregg/Jim Reynolds

Re: Budget Plumbing for:  
47<sup>th</sup> & Vilet St. District #3  
Total Mechanical Plumbing Budget #10-0696

We are pleased to submit to you our interior plumbing budget for the above referenced project as follows, per the walk thru with Jim Reynolds dated February 24<sup>th</sup>, 2010. We will need to field verify drain, vent, hot and cold water connection points for proper size and if they can be installed with gravity flow. This information was not available during the walk thru.

**Base plumbing budget:**

- Local plumbing Permit.
- Two (2) wall hung flush valve water closets.
- One (1) wall hung urinal.
- Two (2) lavatories w/faucets.
- Two (2) floor drains.
- One (1) water heater.
- Twenty feet of waste, vent, and water piping from fixtures.
- Disconnect, cap, and seal (by a licensed plumber) one planter drain that goes to storm.
- Plumbing inspection.

**System fixtures and materials are as follows:**

- Standard fixtures.
- Above grade waste line capping and sealing schedule 40 PVC.
- Above grade water lines type L copper.

Note: We have based our proposal on the best available material pricing at the current time, however due to the volatility of the material market across the nation our proposal is only valid for 20 days.

**Budget plumbing labor and material: ..... \$28,200.00**

**Excluded:**

- Additional work due to existing defective, leaking valves, or piping.
- Repairs to existing code violations.
- Saw cutting, break, and removal of concrete floors.
- Sonar of floors.

If the above proposal, subject to the terms and conditions on the reverse side is acceptable, please sign and return. Total Mechanical will proceed with the work.

SIGNATURE

DATE

-9 12345 00 12



Project/Program Title: Major Capital Equipment

Requesting Department: Police

Prepared By/Phone Ext: John Ledvina 935-7495

Department Head Signature: *Edward P. [Signature]*

Account No: \_\_\_\_\_

Department Priority 10 of 10 Useful Life 20-25 Years Level of Need  Essential  Important  Desired

Type of Project  New  Replacement  Repair  On-Going Program

Project/Program Scope  Fully Defined  Partially Defined

**B) Description**

**Infrastructure**

Street Related  Sewer  Water  Street Lighting  Communications  Recreation

Sidewalks  Alleys  Bridge  Environmental  Port  Parking

**Building**

Roof  Windows  HVAC  Electrical  Restroom  Security  Exterior  Entire Facility

ADA  Office Remodeling  New Building  Elevators  Garage  Mechanical

**Miscellaneous Development**

Economic  Information Systems  Equipment  Other \_\_\_\_\_

**C) Project/Program Duration**

One Year  Yes  No

On-Going Program  Yes  No

Multi-Year  Yes  No Number of Years \_\_\_\_\_

Total Positions \_\_\_\_\_ Total FTEs \_\_\_\_\_

Position Title	No. of Positions	FTEs	Salaries
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____
_____	_____	_____	\$ _____

**E) In Six Year Capital Improvement Plan**

Yes  2009-2014  2010-2015  Yes, Modified  New Request

**F) Project/Program Justification**

Front End Loader \$70,000. 1.5 yard bucket. To be used for snow removal at the Safety Academy and other Police Department locations. Service is currently contracted at \$175.00 per hour. Estimate a SIX YEAR payback. Current contractor is reliable but given 24-7-365 operation of police facilities own capability preferred.

**G) Additional Comments**

Specific requests for 2011 include additional funding for mechanical shaft replacement, fire pump replacement to increase capacity to modern standards, and begin 5th floor renovation including asbestos removal and other preparation work.

## Capital Improvement Request Part II

Requesting Department: Police

Project/Program Title: Major Capital Equipment

Account No: \_\_\_\_\_

Year	Tax Levy/Borrowing	Grant & Aid	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010	\$0					\$0
2011 Budget Request	\$70,000					\$70,000
2012 Projection	\$0					\$0
2013 Projection	\$0					\$0
2014 Projection	\$0					\$0
2015 Projection	\$0					\$0
2016 Projection	\$0					\$0
<b>Total Six Year Cost</b>	\$70,000	\$0	\$0	\$0	\$0	\$70,000
<b>Total Project Cost</b>	\$70,000	\$0	\$0	\$0	\$0	\$70,000

Life to Date Expenditures (Project Only)	\$0	\$0	\$0	\$0	\$0	\$0
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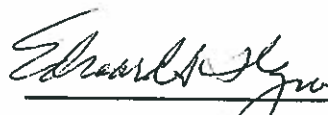
Available Cost Estimate:	2011	2012	2013	2014	2015	2016
Thorough Cost Estimate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Limited Information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Based on Cost of Similar Projects	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unsupported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Were cost estimates confirmed by another source?  Yes  No  Uncertain
- Are cost estimates based on industry standards?  Yes  No  Uncertain
- Will city employees be performing any portion of the work?  Yes  No  Uncertain
- Did you perform a cost/benefit analysis?  Yes  No  Uncertain

How will this project impact city operating expenditures?  Increase  Decrease  None

Estimated Start Date: 01/01/11

Estimated Completion Date: 06/01/11

Department Head Signature 

Prepared By/Phone Ext John Ledvina 935-7495 Ray Olke 935-7954

PRINTING & STORES

**2010 Additional Equipment Request**

**Equipment Requested (be specific):** Front End Loader 1.5 yrd. bucket

**Description of anticipated benefits to Department (improving efficiency, effectiveness, safety, ect.):** This will be used for snow removal at the training academy and other police locations.

We currently outsource this service at 175.00 per hour.

**Cost estimate: (attach quotes, literature, etc.):** \$ 66,900.00

**Related costs:** Fuel and general maintenance

**Consequences of not purchasing this equipment:** We would probably recoup this cost over a 6 year period based on an annual snow removal cost of approx. \$10,000.00 department wide annually.

**Potential Grant funding (if known):** None

**Any other Information pertinent to this request:** We are often at the mercy of our current contractor as to when they will arrive to remove snow. This is often a huge issue here at the academy. It may be days after a major snow storm before our facility is clear of snow. This purchase would allow us to keep up the snow fall and maintain the 24-7-365 operation of all police facilities.



NEW HOLLAND

# MILWAUKEE TRACTOR & EQUIPMENT, INC.

11800 W. Silver Spring Road • Milwaukee, Wisconsin 53225  
Phone (414) 466-8950 • Fax (414) 466-9670

www.milwaukeetractor.com

3/3/09

Milwaukee Police Dept.  
Ray Oelke

1- New Holland W80TC High Speed Wheel Loader equipped with:

- Optional high speed road gear included
- 4 wheel drive
- hydrostatic automatic transmission
- power front coupler
- bucket with bolt on cutting edge
- enclosed cab with heat and air conditioning
- leftover model with 175 hours
- auxiliary hydraulics
- single joystick loader control

Selling Price      \$66,900.00

1- New Holland W80BTC High Speed Wheel Loader equipped with:

- 4 wheel drive
- hydrostatic automatic transmission
- power front coupler
- bucket with bolt on cutting edge
- high speed road gear
- enclosed cab with heat and air conditioning
- auxiliary hydraulics
- single joystick loader control
- New unused 2009 model

Selling Price      \$76,900.00

\*\*\*Government discount concession used on both units.



# NEW HOLLAND

1071000  
Pusher  
14

\$7,700

## W50B TC W80B TC COMPACT WHEEL LOADERS



- Certified Tier III Engine with Low Emissions
- Standard Hydraulic Quick Coupler — Compatible with all Skid Steer Loader attachments
- Boom design provides outstanding visibility and breakout force
- High speed option allows for travel up to 21.7 miles per hour



# INCREASED LIFT, REACH, SPEED AND, CONVENIENCE

New Holland B Series compact wheel loaders pay their way on the jobsite with outstanding performance in a compact, maneuverable machine. The Universal Link design of the W50B TC and W80B TC offers a combination of increased versatility with increased operator comfort and control. The result? You get the job done more quickly and efficiently.

## **New Universal Link Design**

- **Standard hydraulic quick-coupler is skid steer loader-attachment compatible\***
- New boom design with one lift cylinder and one bucket cylinder
- Less than two degrees horizontal lift deviation, so there's no need for manual correction during forklift operation
- Operators can focus more on load placement and increasing cycle times
- Increased Dump Reach
- Better visibility

## **Smooth hydrostatic transmission**

- Precise speed control with minimum shifting
- Easy-to-use, Integrated FNR (forward/neutral/reverse) lever and speed shift selector
- Two travel ranges to adapt to different work situations:
  - Heavy duty 0 to 3.7 mph (0-6 kph)
  - Fast 0 to 12.4 mph (0-20 kph)

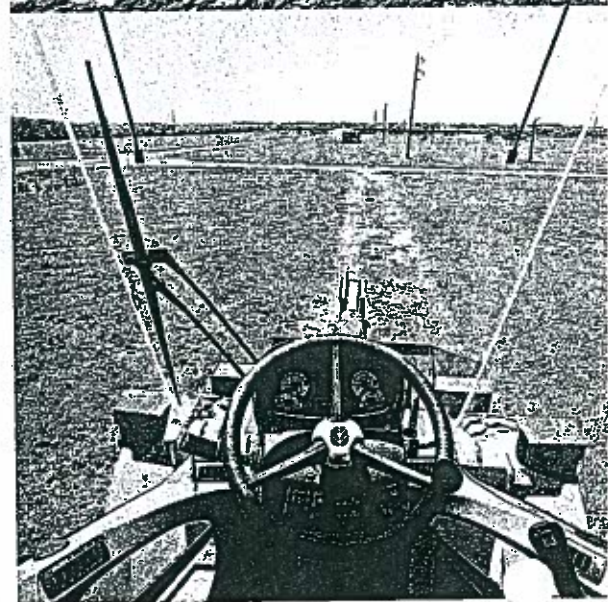
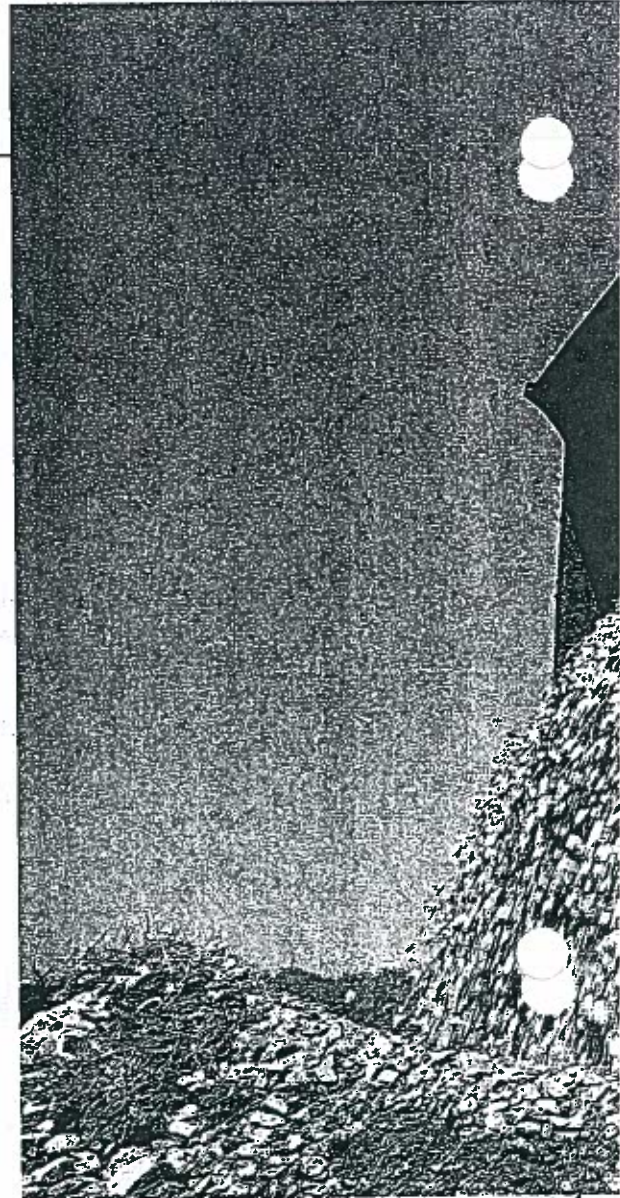
## **High-speed option (W80B TC)**

- Optional 21.7-mph (35 kph) transmission for faster travel on the job site
- Includes two electronic ranges: 0 to 3.1 mph (5 kph) and 0 to 9.9 mph (16 kph), plus the mechanical-gear, high-speed range of 0 to 21.7 mph (35 kph)
- Also features a limited slip differential on front axle and two outboard wet disc brakes on front axle

## **In-cab efficiency and comfort**

- The most spacious cab in this class
- Comfortable, adjustable seat, steering column and armrest
- Main functions concentrated in one convenient joystick control
- Easy-read instruments
- High-performance heater/defroster with optional high-performance air conditioning comfort in all temperatures
- Door and right side window fold back 180 degrees for ventilation

\*Note: Skid Steer Loader buckets not recommended.



## **Outstanding visibility**

The narrow loader arm design improves all around visibility, and provides a clear view to both coupe and attachment for fast, confident attachment changes. A front sun visor and front and rear wiper

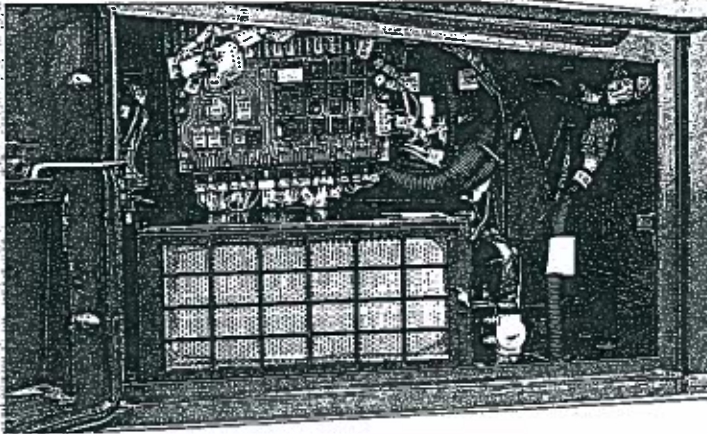
New Holland B-Series  
Compact Wheel Loaders  
are US EPA Tier III certified  
for low emissions.



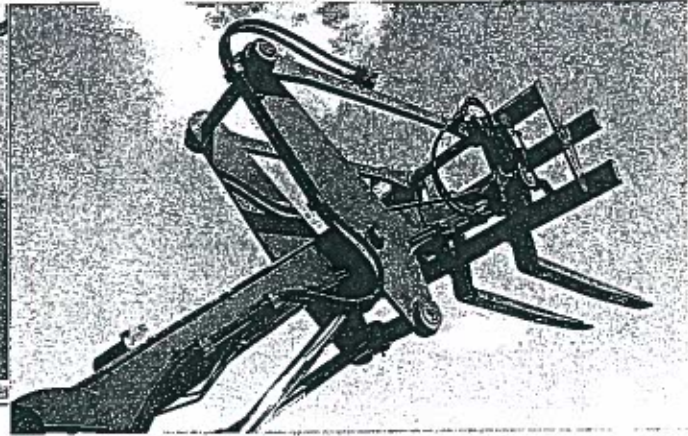
Increased forward reach allows you to place loads exactly  
where you want.

Precise, parallel forklift path eliminates the need for manual  
correction so operators can focus on load placement rather  
than load leveling.

An easy-open panel provides quick access to the cab air filter, electrical components and fuses.



Enjoy increased versatility with a broad range of attachments including a rock bucket, earth auger, snow push, snow blower, snow blade, loader boom, power rake, tree spade, bale hugger, bale spike and silage defacer.

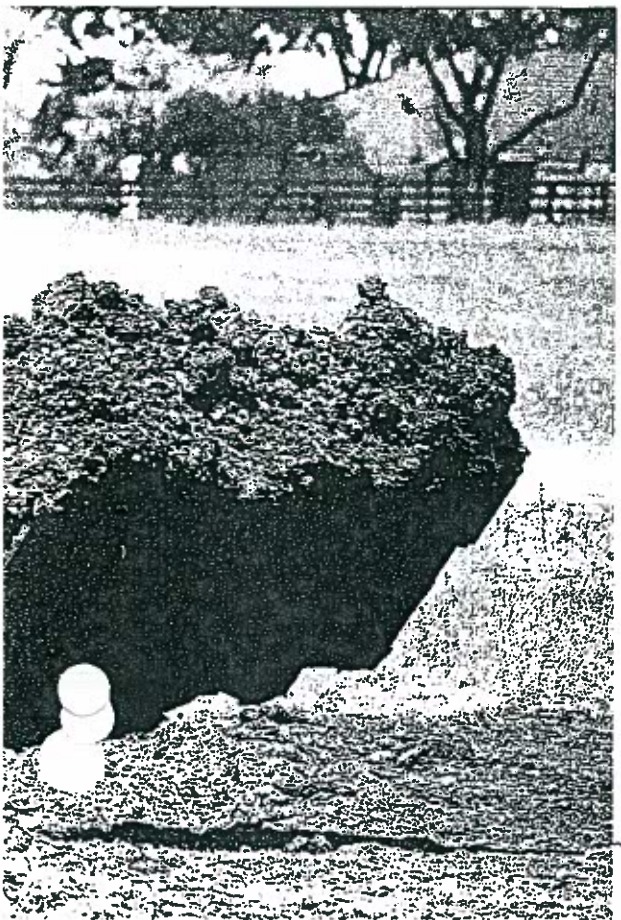






#### Increased 54-degree rollback

New Holland has increased bucket rollback to 54 degrees for excellent material retention. Operators can completely invert the bucket to grade or pull material away from walls and foundations.



## POWER TO LIFT, LOAD, DIG, AND SCRAPE

New Holland compact wheel loaders do more than load. With increased engine and hydraulic power and a choice of buckets and attachments, you can easily scrape, grade, haul and more.

#### Dependable 4-cylinder engine

- Large 3.1-liter displacement and low 2300-rpm engine speed increase engine life
- Direct-injection diesel design features low fuel consumption, low emissions and low noise
- Oil cooling reduces corrosion to increase engine lifespan
- Compact engine measurements improve maneuverability and rear visibility

#### Fast servicing

- Fast, ground-level access to maintenance points
- Long service intervals—1000 hours for the W50B TC, 500 hours for the W80B TC
- Excellent access to engine oil drain & filter
- Access all service points from one side

#### Powerful hydraulics

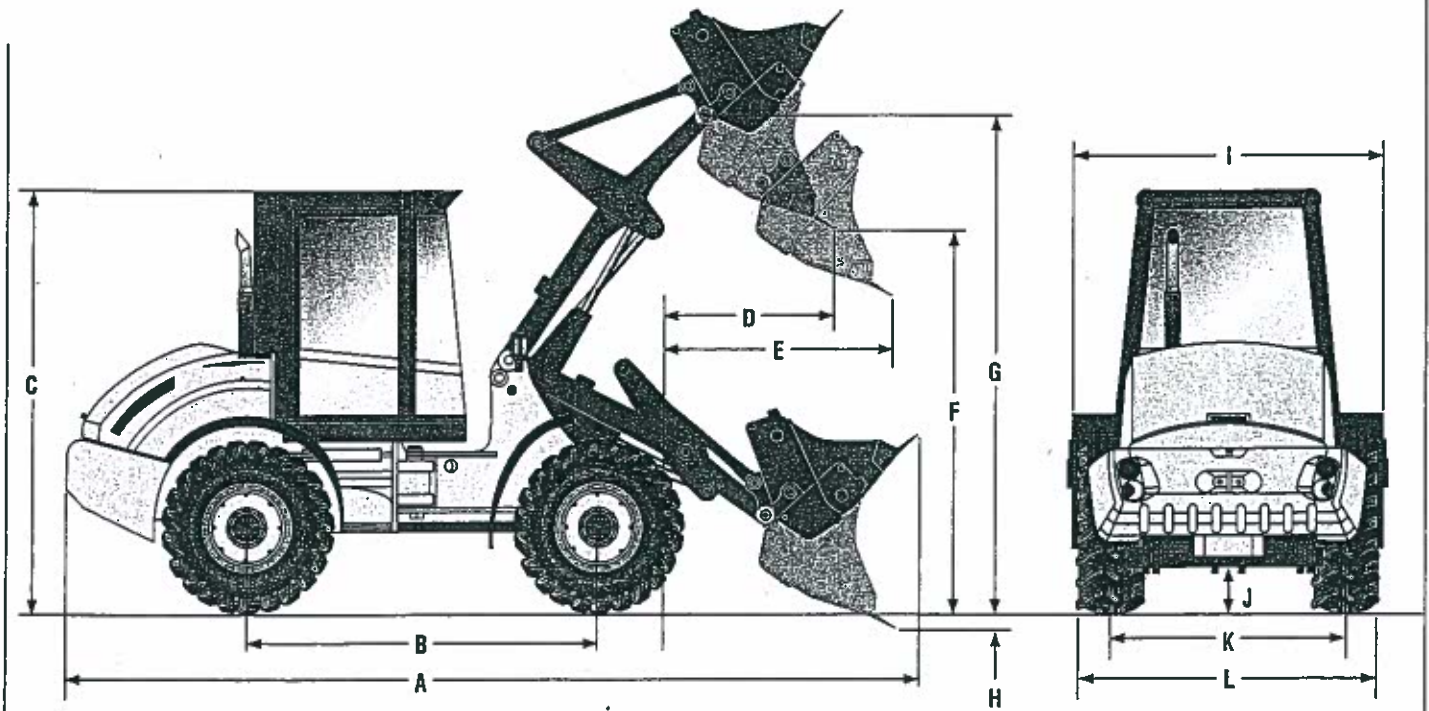
- Two separate pumps ensure fast cycle times and more output for hydraulic attachments
- One hydraulic pump for implement and steering with second pump for braking and hydraulic fan
- Excellent high lift force when using forks
- Standard third hydraulic function delivers full flow and pressure when needed
- Standard front limited slip differential, optional on rear
- Optional Ride Control load stabilizer improves material retention while traveling over rough ground
- Optional anti-drop valve prevents accidents in case of sudden loss of pressure

#### Outstanding stability

- Extra-long wheelbase for increased tipping loads
- Low center of gravity
- Smoother ride

# W50B TC W80B TC Dimensions and Bucket Selection

## DIMENSIONS



## DIMENSIONS

### W50B TC

### W80B TC

A. Overall length	17' 7" (5360 mm)	18' 6" (5650 mm)
B. Wheelbase	85.9" (2182 mm)	92.5" (2350 mm)
C. Height to top of ROPS/Cab	8' 10" (2710 mm)	9' 2" (2790 mm)
D. Dump reach at full height @ 45°	34" (825 mm)	35" (890 mm)
E. Dump reach @ 7°	3' 10" (1172 mm)	4' 3" (1300 mm)
F. Dump clearance at full height @ 45°	8' 3" (2529 mm)	8' 9" (2671 mm)
G. Hinge pin height	10' 8" (3243 mm)	11' 4" (3459 mm)
H. Dig depth below grade	3.6" (92 mm)	3.5" (89 mm)
I. Bucket width	6' 2" (1900 mm)	6' 11" (2100 mm)
J. Ground clearance under axle	13" (330 mm)	13" (330 mm)
K. Tread gauge	4' 10" (1480 mm)	5' 2" (1570 mm)
L. Width over tires	6' 1" (1841 mm)	6' 5" (1963 mm)
Bucket rollback: at carry	52°	52°
fully raised	54°	54°
Turning radius	12' 7" (3847 mm)	13' 8" (4154 mm)



# W50B TC W80B TC Base & Optional Equipment

## STANDARD EQUIPMENT

### ENGINE

Isuzu 4J1 F5C  
Displacement: 189 cu in (3.1 l)  
50 hp ISO net @ 2300 rpm (W50B TC)  
77 hp ISO net @ 2500 rpm (W80B TC)  
Electric cold weather starting device

### POWER TRAIN

All-wheel drive  
Oscillating rear axle  
Articulated frame  
Outboard planetary axles  
Limited slip differential, front axle

### HYDRAULICS

Common gear pump hydraulic system  
Integral single lever loader control  
Hydraulic quick coupler (with control & piping)  
Extra hydraulic line  
3 spool valve (W50B TC)

### TRANSMISSION

Hydrostatic powershift transmission  
2 speed forward, 2 speed reverse  
Integral lever electric shift controls  
Speed: 21.7 mph (35 kph)

### TIRES

Dunlop 405/70 R20 SPT9 (W80B TC)  
Dunlop 335/90 R18 SPT9 (W50B TC)

### OPERATOR STATION

ROPS cab with sound suppression  
Defroster & ventilation system  
Windshield wiper & washer (front & rear)  
Adjustable vinyl seat with 2 in. seat belt  
Tinted safety glass  
Tilttable steering column  
Radio ready-antenna & speakers

### LOADER SYSTEM

Single lever/3 spool loader control  
Skid Steer adaptive hydraulic quick coupler  
(not approved for use with skid steer buckets or  
other ground engaging attachments)  
Universal link loader system

### INSTRUMENTS

Gauges:  
Fuel level  
Hourmeter  
Engine coolant temperature  
Warning lights:  
Central warning indicator  
Hydraulic oil temperature  
Engine oil pressure  
Alternator  
Headlamp Indicator  
Turn signal Indicator  
Engine coolant temperature  
Parking brake  
Hazard light Indicator  
Travel direction indicator

### ELECTRICAL

12V system  
65 amp alternator with 750 CCA battery  
12V electrical socket in cab  
Back-up alarm  
Two head lights  
Four turning lights (2 in front, 2 in rear)  
Two stop lights  
Two tail lights  
Two front worklights  
Battery disconnect

## OPTIONAL EQUIPMENT

### OPERATORS STATION

ROPS canopy  
Air conditioning for cab units

### BUCKET GROUP

.92 cu yd bucket with cutting edge  
.92 cu yd bucket with teeth  
1.0 cu yd bucket with cutting edge  
1.0 cu yd bucket with teeth  
4x1 bucket (.85 cu yd) with cutting edge  
4x1 bucket (.85 cu yd) with teeth

### FORKLIFT PACKAGES

2 lift forks (100 in x 45 in x 47 in)  
Fork carrier protection  
Additional counterweight

### OTHER

Additional counterweight (352 lbs)  
Rotating beacon light  
LTS system  
Rear limited slip differential  
Tool box

# W50B TC Specifications

ENGINE	
Model Tier III certified .....	FPT F5C
Horsepower, gross, hp (kW) .....	54 (41)
Horsepower, net, hp (kW) .....	50 (38)
Rated rpm .....	2,300
Torque, net (SAE J1349) .....	162 lb-ft @ 1400
Number of cylinders .....	4
Displacement, cu in (l) .....	195 (3.11)
Aspiration .....	Natural

CYLINDERS	
Lift cylinder .....	3.5 in diam x 28.4 in stroke x 2 in rod
Dump cylinder .....	3.5 in diam x 18 in stroke x 2 in rod

TRANSMISSION	
Make and model .....	Rexroth A4VG40
Type .....	Hydrostatic
Speeds .....	2 F/2 R
1st Gear, mph .....	3.1
2nd Gear, mph .....	12.4

STEERING	
Pump type .....	Gear
Flow, gpm (lpm) .....	13.7 (52)
Steering valve type .....	Orbital
Steering angle .....	41°

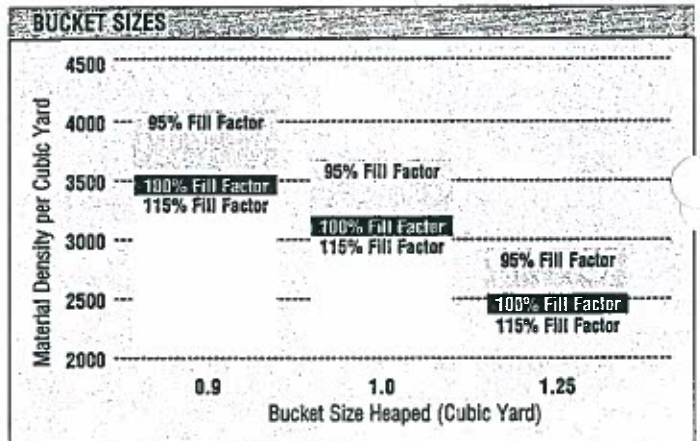
HYDRAULICS	
System type .....	Open center
Pump type .....	Gear
Valve type .....	3 spool
Pump capacity, gpm (lpm) .....	13.7 (52)
System relief pressure, psi .....	3,625
Cycle times:	
Lift, sec .....	6.0
Lower, sec .....	3.0
Dump, sec .....	1.0

ELECTRICAL	
System voltage, volts .....	12
Alternator output, amps .....	55
Battery capacity - std, CCA .....	750

PERFORMANCE - BUCKET WITH QUICK COUPLER	
Bucket capacity heaped, cu yd (m³) .....	.92 (.70)
Bucket capacity struck, yd (m) .....	.73 (.56)
Breakout force, lbs (kg) .....	8,386 (3804)
Static tip load straight, lbs (kg) .....	7,377 (3346)
Static tip load full turn, lbs (kg) .....	6,489 (2944)
Operating weight, lbs (kg) .....	10,173 (4615)
Lift height, ft in (mm) .....	8' 3" (2529)
Dump reach, in (mm) .....	33 (825)
*Note: Machine equipped with bucket, bolt on cutting edge and coupler.	

PERFORMANCE - CONSTRUCTION UTILITY FORK (48 INCH)	
Static tip load straight, lbs (kg) .....	5,176 (2348)
Static tip load full turn, lbs (kg) .....	4,524 (2052)
Operating weight, lbs (kg) .....	10,258 (4653)
Reach, fully raised, in (mm) .....	23 (595)
Fork height, fully raised, ft in (mm) .....	10' 7" (3245)
Reach, ground level, in (mm) .....	34 (850)
Maximum reach, ft in (mm) .....	4' 4" (1331)
*Note: Machine equipped with fork, additional counterweighting and coupler.	

CAPACITIES	
Fuel tank, gal (l) .....	26 (100)
Cooling system, gal (l) .....	4.4 (16.6)
Engine crankcase & filter, qt (l) .....	9.0 (8.5)
Axles, front, gal (l) .....	2.0 (7.5)
Axles, rear & transfer box, gal (l) .....	2.0 (7.5)
Hydraulic tank reservoir, gal (l) .....	10.5 (39.8)
Hydraulic system, gal (l) .....	14.8 (56)



# W80B TC Specifications

## ENGINE

Model Tier III certified	FPT F5C
Power, gross, hp (kW)	82 (61)
Horsepower, net, hp (kW)	77 (57)
Rated rpm	2,500
Torque, net (SAE J1349)	226 lbs-ft @ 1,400 rpm
Number of cylinders	4
Displacement, cu in (l)	189 (3.11)
Aspiration	Natural

## CYLINDERS

Lift cylinder	3.5 in diam x 28.4 in stroke x 2 in rod
Dump cylinder	3.5 in diam x 18 in stroke x 2 in rod

## TRANSMISSION

Make and model	Rexroth A4VG71
Type	Hydrostatic
Speeds	2 F/2 R
1st Gear, mph	3.7
2nd Gear, mph	12.4
High travel speed (HTS) option engaged, mph	21.7

## STEERING

Pump type	Gear
Flow, gpm (lpm)	21.1 (80)
Steering valve type	Orbital
Steering angle	41°

## HYDRAULICS

System type	Open center
Pump type	Gear
Valve type	3 spool
Pump capacity, gpm (lpm)	21.1 (80)
System relief pressure, psi	3,916
Cycle times: lift, sec	6.0
lower, sec	3.0
dump, sec	1.0

## ELECTRICAL

System voltage, volts	12
Alternator output, amps	65
Battery capacity - std, CCA	750

## PERFORMANCE - BUCKET WITH QUICK COUPLER

Bucket capacity heaped, cu yd (m³)	1.31 (1.0)
Bucket capacity struck, cu yd (m³)	1.09 (.83)
Breakout force, lbs (kg)	11,982 (5435)
Static tip load straight, lbs (kg)	9,741 (4418)
Static tip load full turn, lbs (kg)	8,281 (3756)
Operating weight, lbs (kg)	12,676 (5773)
Lift height, ft in (mm)	8' 11" (2671)
Dump reach, in (mm)	33.6 (852)

\*Note: Machine equipped with bucket, bolt on cutting edge and quick-coupler.

## PERFORMANCE - CONSTRUCTION UTILITY FORK (48 INCH)

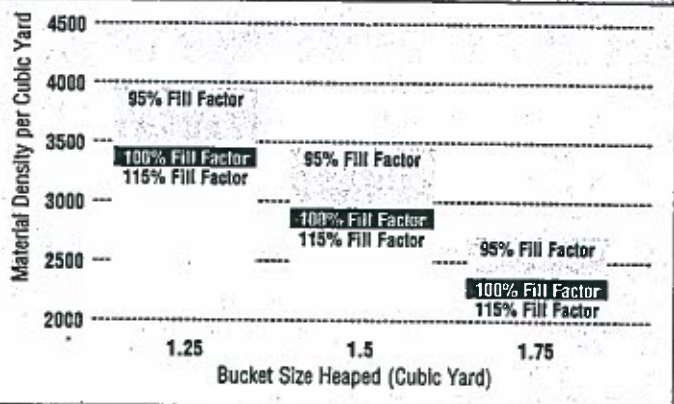
Static tip load straight, lbs (kg)	7,197 (3265)
Static tip load full turn, lbs (kg)	6,106 (2770)
Operating weight, lbs (kg)	12,544 (5690)
Reach, fully raised, in (mm)	22 (555)
Fork height, fully raised, ft in (mm)	11' 2" (3420)
Reach, ground level, in (mm)	32 (822)
Maximum reach, ft in (mm)	4' 5" (1348)

\*Note: Machine equipped with fork, additional counterweighting and quick-coupler.

## CAPACITIES

Fuel tank, gal (l)	26 (100)
Cooling system, gal (l)	4.4 (16.5)
Engine crankcase & filter, qt (l)	9.0 (8.5)
Axles, front, gal (l)	2.11 (8.0)
Axles, rear & transfer box, gal (l)	2.11 (8.0)
Hydraulic tank reservoir, gal (l)	10.5 (40.0)
Hydraulic system, gal (l)	19.5 (74)

## BUCKET SIZES



**COMPACT WHEEL LOADERS**

**W50B TC**

Horsepower: Net 50 hp (38 kW)  
 Operating weight: 10,173 lbs (4615 kg)  
 Bucket capacity: .92 cu yd (.7 m<sup>3</sup>)

**W80B TC**

Horsepower: Net 77 hp (57 kW)  
 Operating weight: 12,544 lbs (5690 kg)  
 Bucket capacity: 1.31 cu yd (1.0 m<sup>3</sup>)

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