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<tr>
<th>Item</th>
<th>Description</th>
<th>QTY</th>
<th>Unit Price</th>
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<tr>
<td>1</td>
<td>Complete Mobile Skycap Systems Permanent Mount License Plate Readers for vehicles</td>
<td>5 ea</td>
<td>$28,210.00</td>
<td>$141,050.00</td>
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<tr>
<td>2</td>
<td>Skycap Mobile Trailers/Lic,Plate/Rec/Rada Unit</td>
<td>2 ea</td>
<td>$49,500.00</td>
<td>$99,000.00</td>
</tr>
<tr>
<td>3</td>
<td>AutoVu Portable Sharp Camera SH-390-001188 (25mm lens, 850 nm (IR))</td>
<td>1 ea</td>
<td>$9,572.00</td>
<td>$9,572.00</td>
</tr>
<tr>
<td>4</td>
<td>AutoVu Portable Sharp Camera SH-390-001185 (16mm lens, 850 nm (IR))</td>
<td>2 ea</td>
<td>$9,572.00</td>
<td>$19,144.00</td>
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<td>5</td>
<td>Portable AutoPatrol Kit</td>
<td>3 ea</td>
<td>$3,159.00</td>
<td>$9,477.00</td>
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<td>AutoVu Back-Office Upgrade AU-800-001224 Base Package</td>
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<td>$1,900.00</td>
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<td>AutoVu Back-Office Upgrade AU-800-001225 Per Mobile Unit License</td>
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<td>$479.00</td>
<td>$4,790.00</td>
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<td>8</td>
<td>400-000995 - Battery Power Cable</td>
<td>3 ea</td>
<td>$67.00</td>
<td>$201.00</td>
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<tr>
<td>9</td>
<td>600-001249 - GPS Unit - USB</td>
<td>3 ea</td>
<td>$100.00</td>
<td>$300.00</td>
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<tr>
<td>10</td>
<td>SC-Installation - Com 1 Complete Installation of Pan &amp; Tilt System and LPR Syst</td>
<td>7.50 ea</td>
<td>$1,440.00</td>
<td>$10,800.00</td>
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<td>11</td>
<td>SC-Installation - WTE - On-Site Travel Expense</td>
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<td>$3,520.00</td>
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<td>2010006670</td>
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Purchase Order

Vendor:
Fax: 901/373-7790
ESI COMPANIES INC
1861 VANDERHORN DR
MEMPHIS TN 38134

Ship To: El Paso Police Department
Financial Services
911 N Raynor
El Paso TX 79903

Bill To: 911 NORTH RAYNOR
El Paso TX

Payment Terms: Freight Terms
Net 30
FOB Dest Freight Prepaid
Ship Via: Regular

Buyer: Plum, Michael W.
Phone: 915-541-4313
Currency: USD

Purchase Order
CITY OF EL PASO
2 Civic Center Plaza
PURCHASING DEPARTMENT
El Paso TX 79901

Vendor:
Fax: 901/373-7790
ESI COMPANIES INC
1861 VANDERHORN DR
MEMPHIS TN 38134

Tax Exempt? Y  Tax Exempt ID: 74-6000749

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<td>1-1</td>
<td>Five SC-PTLPSSCAMTC-01 SkyCop Pan &amp; Tilt System with AutoVu</td>
<td>5.00</td>
<td>EA</td>
<td>28,210.00</td>
<td>08/05/2009</td>
<td>141,050.00</td>
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<td></td>
<td>Patroller Sharp LPR, SkyCop Surveillance H.264 8-Channel</td>
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<td></td>
<td>Digital Recorder with 1TB</td>
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<td>RQ 2009002407 211500002-2G10832-21000-05444-508010</td>
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<td>Please reference PO number on ALL Invoices and Packing Slips</td>
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<td>Please contact Grants Dept. at 915-564-7178 for ALL technical and financial</td>
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<td>2-1</td>
<td>Two SkyCop Cadet Model SC-MTG-2CLRPRAD Mobile Trailer Operational Scope</td>
<td>2.00</td>
<td>EA</td>
<td>49,500.00</td>
<td>08/05/2009</td>
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<tr>
<td>3-1</td>
<td>One SH-390-001185 - (25 mm lens, 850 nm (IR) - AutoVu Sharp XGA Camera Unit.</td>
<td>1.00</td>
<td>EA</td>
<td>9,572.00</td>
<td>08/05/2009</td>
<td>9,572.00</td>
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<td></td>
<td>Includes: Rugged, environmentally sealed housing</td>
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<tr>
<td>4-1</td>
<td>Two SH-390-001185 - (16 mm lens, 850 nm (IR) - AutoVu Sharp XGA Camera Unit.</td>
<td>2.00</td>
<td>EA</td>
<td>9,572.00</td>
<td>08/05/2009</td>
<td>19,144.00</td>
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<tr>
<td></td>
<td>Includes: Rugged, environmentally sealed housing</td>
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<td>5-1</td>
<td>Three SH-395-001221 - Portable AutoPatrol Kit. Includes: 1 Magnetic mount +</td>
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<td>EA</td>
<td>3,159.00</td>
<td>08/05/2009</td>
<td>9,477.00</td>
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<td>tether -1 Power break-out box - 1</td>
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<td>6-1</td>
<td>One AU-800-001224 - AutoPatrol Back Office Review and Reporting Software Base</td>
<td>1.00</td>
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<td>1,900.00</td>
<td>08/05/2009</td>
<td>1,900.00</td>
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<td>7-1</td>
<td>Ten AU-800-001225 - AutoPatrol Back Office Review and Reporting Software Per</td>
<td>10.00</td>
<td>EA</td>
<td>479.00</td>
<td>08/05/2009</td>
<td>4,790.00</td>
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<tr>
<td></td>
<td>Mobile unit license</td>
<td></td>
<td></td>
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<tr>
<td>8-1</td>
<td>Three 400-000995 - Battery Power Cable</td>
<td>3.00</td>
<td>EA</td>
<td>67.00</td>
<td>08/05/2009</td>
<td>201.00</td>
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<tr>
<td>9-1</td>
<td>Three 600-001249 - GPS Unit &amp; USB</td>
<td>3.00</td>
<td>EA</td>
<td>100.00</td>
<td>08/05/2009</td>
<td>300.00</td>
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<td>10-1</td>
<td>7.5 SC-INSTALLATION-COM - 1 Complete installation of Pan &amp;</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>NOTICE: By issuing this Purchase Order, the City neither waives nor renounces any or all claims and/or rights that it may have including but not limited to the claims and rights the City may have arising out of or related to any breach of this or any other contract the City may have with this vendor.</td>
<td></td>
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<td></td>
<td>Authorized Signature</td>
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</table>

NOTE: Unless Reference is made to a specific Contract, this Purchase order is subject to City of El Paso's standard purchase order terms and conditions. The Terms and Conditions may be viewed on our website at: www.elpasotexas.gov/forms. Please reference Purchase Order 2009003552 on all Invoices, Packing Slips and Correspondence.
**Purchase Order**

**Dispatch via Print**

<table>
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<tr>
<th>Purchase Order</th>
<th>Date</th>
<th>Revision</th>
<th>Page</th>
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<tr>
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<td>07/22/2009</td>
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**Payment Terms**

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**Buyer**

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<th>Currency:</th>
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<tr>
<td>Michael W. Plum</td>
<td>915-541-4313</td>
<td>USD</td>
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**Ship To:**

El Paso Police Department
Financial Services
911 N Raynor
El Paso TX 79903

**Bill To:**

911 NORTH RAYNOR
El Paso TX

---

**Vendor:**

ESI COMPANIES INC
1661 VANDERHORN DR
MEMPHIS TN 38134

**Vendor Phone:**

(901) 373-7790

**Vendor Fax:**

(901) 373-7790

**Tax Exempt ID:** 74-6000749

---

**Line/Item/Description**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>UOM</th>
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<th>Due Date</th>
<th>Extended Amt</th>
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<td>Tilt System and LPR System A)</td>
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<td>1,440.00</td>
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<tr>
<td>5-Sky cop Units B) 2-Portable sharp units C) 2-Portable</td>
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<td>11-1 Two SC-INSTALLATION-WTE - ON-SITE TRAVEL EXPENSE</td>
<td>2.00</td>
<td>EA</td>
<td>1,760.00</td>
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<td>3,520.00</td>
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**Name:** BSET Grant Border Security Equipment Technology-License Plate Readers

**Dept:** 21150002/Gtrant:G210832/Class:21000/Fund:05444/Acct:058010


**Contact persons:** A/C Eric Shelton at 564-7309, Jorge Acosta 564-7119, Terrence Freiburg 541-4313.

**Vendor Quote #:** AAAQ1301-04, vendor phone#: (901)386-7340 or (901) 412-4043, email: josteen@esicompanies.com

**THE CITY OF EL PASO IS TAX EXEMPT. TAX ID #:** 74-6000749

---

**NOTICE:** By issuing this Purchase Order, the City neither waives nor renounces any or all claims and/or rights that it may have including but not limited to the claims and rights the City may have arising out of or related to any breach of this or any other contract the City may have with this vendor.

**Authorized Signature:**

Purchasing Manager

---

**Total PO Amount:** 299,754.00

---

**NOTE:** Unless Reference is made to a specific Contract, this Purchase Order is issued under City of El Paso's standard purchase order terms and conditions. The Terms and Conditions may be viewed on our website at www.elpasotexas.gov. Please reference Purchase Order 2009003552 on all invoices, Packing Slips and Correspondence.
**INVOICE**

**Number:** 36167  
**Date:** 07/31/09

---

**Bill to:**  
CITY OF EL PASO  
ATTN: ACCOUNTS PAYABLE  
2 CIVIC CENTER PLAZA  
EL PASO, TX 79901

**Job:**  
EL PASO POLICE DEPT  
911 N RAYNOR  
EL PASO, TX 79903

---

**Customer Code:** CITELP  
**Purchase Order No.:** 2009003436  
**Salesperson:** JOHN OSTEEN  
**Terms:** NET 30 DAYS

**Remarks:** COMPLETE MOBILE SKYCOP SYSTEMS

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<th>U/M</th>
<th>Unit Price</th>
<th>Extension</th>
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<td>EA</td>
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<td>141,050.00</td>
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<td>2.00</td>
<td>SKYCOP CADET MOBILE TRAILER</td>
<td>EA</td>
<td>49,500.00</td>
<td>99,000.00</td>
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<td>1.00</td>
<td>25MM LENS 850NM AUTOVU CAMERA</td>
<td>EA</td>
<td>9,572.00</td>
<td>9,572.00</td>
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<tr>
<td>2.00</td>
<td>15MM LENS,850NM CAMERA UNIT</td>
<td>EA</td>
<td>9,572.00</td>
<td>19,144.00</td>
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<td>3.00</td>
<td>PORTABLE AUTOPATROL KIT</td>
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<td>4,790.00</td>
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<td>3.00</td>
<td>BATTERY POWERED CABLE</td>
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<td>3.00</td>
<td>GPS UNITS USB</td>
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<td>100.00</td>
<td>300.00</td>
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<td>7.50</td>
<td>SC INSTALLATION-COM 1</td>
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<td>1,440.00</td>
<td>10,800.00</td>
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<td>2.00</td>
<td>SC INSTALLATION WTE ON SITE TR</td>
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<td>1,760.00</td>
<td>3,520.00</td>
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**Subtotal:** 299,754.00

**Total:** 299,754.00

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ESI COMPANIES, INC.  
1861 VANDERHORN DRIVE

P.O. 2009003552  
RC: 2010006910  
GP#: 606123  
VC#: 10011697  
CK: 00737040  
DATE: 11/28/09

**Completed by Sgt. Robert Gomez**

*03 AUG 5 am 9:34*

*P.O. 2009003552 please process once confirmed by Sgt. Robert Gomez*

- 10057 -
CITY OF EL PASO
2 Civic Center Plaza
El Paso, TX 79901

WELLS FARGO BANK
221 N KANSAAS
EL PASO, TX 79901
88-604120

ACCOUNTS PAYABLE  VOID AFTER 90 DAYS  Date 11/23/2009

Pay This Amount

Pay Exactly  ***TWO HUNDRED NINETY-NINE THOUSAND SEVEN HUNDRED FIFTY-FOUR AND XX / 100 DOLLAR***

To/For
ESI COMPANIES INC
1861 VANDERHORN DR
MEMPHIS, TN 38134

Check Date: 11/23/2009
Check No. 00737040

Check Date: InVOICE Date: Voucher ID: Gross Amount: Discount Available: Paid Amount:
36167  7/31/2009  10012690  299,754.00  0.00  299,754.00
PO 2009003552 EPPD INV 36167 7/31/09 COMPLETE MOBILE SKYCOP SYSTEMS

Vendor Number  Name  Total Discounts  TIN
621111077  ESI COMPANIES INC  $0.00  -

Check Number  Date  Total Amount  Late Interest  Discounts Taken  Total Paid Amount
00737040  11/23/2009  $299,754.00  0.00  0.00  $299,754.00

- 10058 -
Please review this GSA Contract # GS-07F-185U Quotation information that you requested immediately, should you determine this information is not exactly what you need, please call John Osteen - 901-412-4043. We look forward to working with you and your department to implement your automated mobile license plate (AMLP) Recognition System.

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
<th>Unit Price</th>
<th>Ext. Price</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td>COMPLETE MOBILE SKYCOP SYSTEMS</td>
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<td>2</td>
<td>5</td>
<td>SC-PTLPRESSCAMTC-01 - SkyCop Pan &amp; Tilt System with AutoVu Patrolier Sharp LPR, SkyCop Surveillance H.264 8-Channel Digital Recorder with 1TB Drive, Pan &amp; Tilt Drive, 7&quot; Touchscreen, Thermal Camera, Color Camera. All Miscellaneous Hardware for a Complete and Functional System.</td>
<td>$28,210.00</td>
<td>$141,050.00</td>
</tr>
<tr>
<td></td>
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<td>Trunk Mounting System</td>
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<tr>
<td>1</td>
<td></td>
<td>&quot;AutoVu Sharp XGA Camera Unit. Includes: -Rugged, environmentally sealed housing - Pan tilt mount - 1 internal HD (1024 X 768) resolution camera - 1 internet SD (640 X 480) resolution camera - 1 Coloran processor - Embedded LPR engine - LED illumination array - LPR - 25 mm lens. 850 nm (IR) illumination. - Overview - 8mm lens&quot;</td>
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<tr>
<td>1</td>
<td></td>
<td>Sharp to Break-Out Unit Cable (6 m/15 feet)</td>
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<td>1</td>
<td></td>
<td>Power Break-Out Unit</td>
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<td>&quot;AutoVu Patrolier Installation package ( &gt; 2 Sharp connections). &quot;In-Vehicle computer and maps not included&quot;</td>
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<td>3</td>
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<td>SubTotal</td>
<td>$141,050.00</td>
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<td>SKYCOP MOBILE TRAILER/LIC.PLATE/REC/RADA UNIT</td>
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<tr>
<td>5</td>
<td>2</td>
<td>SkyCop Cadet Model SC-MTBG-2CLRPRAD Mobile Trailer Operational Scope</td>
<td>$49,500.00</td>
<td>$99,000.00</td>
</tr>
</tbody>
</table>

(1) SkyCop Mobile Power Plant and Surveillance Trailer with the following equipment:

See Attachments for full product descriptions
<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
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<th>Unit Price</th>
<th>Ext. Price</th>
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<tr>
<td>1</td>
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<td>(1) SkyCop Enclosure with Cooling Blower Kit, Heating Kit, Thermostat Kit, Lightning Arrestor Kit</td>
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<td>2</td>
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<td>(1) 4-Channel SkyCop H.264 30-FPS Digital Recorder with 1TB Storage</td>
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<tr>
<td>3</td>
<td></td>
<td>(1) 7&quot; Touch screen LCD Monitor</td>
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<tr>
<td>4</td>
<td></td>
<td>(1) GSM Cellular wireless interface</td>
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<td>5</td>
<td></td>
<td>(1) SkyMesh 802.11 Wireless Mesh Transmitter / Receiver with Directional Antennas</td>
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<tr>
<td>6</td>
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<td>(2) SkyCop PTZ camera assemblies for overview</td>
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<td>7</td>
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<td>(1) Sharp License Plate Recognition System</td>
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<td>8</td>
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<td>(1) RU2 Radar LCD Signage System</td>
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<td>(1) 24Volt DC Programmable Power Inverter with LCD Display</td>
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<td>10</td>
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<td>(4) 400 amp hour sealed gel type industrial batteries</td>
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<td>11</td>
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<td>(2) SkyCap PTZ camera assemblies for overview</td>
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<td>12</td>
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<td>(1) Gas Generator with 12 gallon fuel tank, gauge and filter</td>
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<td>13</td>
<td></td>
<td>(1) Aluminum Enclosure System / Steel Trailer infrastructure System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>(1) 24Voll DC Programmable Power Inverter with LCD Display</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Each mobile trailer system will include an 18’ hydraulic driven Camera Mast for automatic deployment from transporting position to required camera height. Each mobile trailer system will include a SkyCop Video Surveillance System with (2) Day / Night Pan / Tilt / Zoom (PTZ) Cameras, SkyMesh 802.11 Wireless Networks in all 802.11 frequencies, and a 4-Channel SkyCop H.264 Video Compression Digital Recorder recording up to 30-FPS with 1TB Storage. Video will transmit via SkyMesh 802.11 wireless mesh to a designated security monitoring location. Each mobile trailer system will include GSM Cellular EVDO Transmission equipment for future optional service if requested. The 24VDC power plant will be powered by (4) sealed industrial grade 400 amp hour gel batteries and recharged by a gas operated industrial grade Generator with a 12 gallon gas tank that includes auto-start / auto-cutoff to automatically recharge the batteries, if required, during deployment. This unit will include a Sharp LPR Camera system and a RU2 Radar LCD Signage system. The Sharp LPR System can be installed covertly if requested.

6
SubTotal
$99,000.00

7
AUTOVU PORTABLE SHARP UNITS

8
1
SH-390-001186 - (25 mm lens, 850 nm (IR)) - AutoVu Sharp XGA Camera Unit. Includes: - Rugged, environmentally sealed housing - Pan tilt mount - 1 internal HD (1024 X 768) resolution camera - 1 internal SD (640 x 480) resolution camera - 1 Celeron processor - Embedded LPR engine - LED illumination array - LPR - 25 mm lens, 850 nm (IR) Illumination - Overview - 8mm lens
$9,572.00 $9,572.00

9
2
SH-390-001185 - (16 mm lens, 850 nm (IR)) - AutoVu Sharp XGA Camera Unit. Includes: - Rugged, environmentally sealed housing - Pan tilt mount - 1 internal HD (1024 X 768) resolution camera - 1 internal SD (640 x 480) resolution camera - 1 Celeron processor - Embedded LPR engine - LED illumination array - LPR - 16 mm lens, 850 nm (IR) Illumination - Overview - 8mm lens
$9,572.00 $19,144.00

10
3
SH-395-001221 - Portable AutoPatrol kit. Includes: - 1 Sharp to break-out box cable - 1 Magnetic mount + tether - 1 Power break-out box - 1 Cigarette lighter power cable - 1 Battery power cable - Rugged transport case - AutoPatrol installation package *In-vehicle computer not included
$3,159.00 $9,477.00

11
SubTotal
$38,193.00

12
AUTOVU BACK-OFFICE UPGRADE
Thank you for considering ESI Companies a authorized Genelec, Inc. Partner to meet your Mobile License Plate Recognition needs.

PRICES SUBJECT TO CHANGE - PRICES BASED UPON TOTAL PURCHASE - ALL DELIVERY, TRAINING OR CONSULTING SERVICES TO BE BILLED AT PUBLISHED RATES FOR EACH ACTIVITY INVOLVED - GENERALLY ALL HARDWARE COMPUTER COMPONENTS PROPOSED ABOVE ARE COVERED BY A LIMITED ONE YEAR WARRANTY, COVERING PARTS AND LABOR ON A DEPOT BASIS - WE SPECIFICALLY DISCLAIM ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OR WITH REGARD TO ANY LICENSED PRODUCTS. WE SHALL NOT BE LIABLE FOR ANY LOSS OF PROFITS, BUSINESS, GOODWILL, DATA, INTERRUPTION OF BUSINESS, NOR FOR INCIDENTAL OR CONSEQUENTIAL MERCHANTABILITY OR FITNESS OF PURPOSE, DAMAGES RELATED TO THIS AGREEMENT. MINIMUM 15% RESTOCKING FEE WITH ORIGINAL PACKAGING.

See Attachments for full product descriptions
These are the unit numbers and Vin Numbers of the vehicles with the LPR system.

<table>
<thead>
<tr>
<th>Unit #</th>
<th>Location</th>
<th>VIN</th>
<th>SN</th>
</tr>
</thead>
<tbody>
<tr>
<td>C8131</td>
<td>Central</td>
<td></td>
<td>114306</td>
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<tr>
<td>E8134</td>
<td>Pebble Hills</td>
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<tr>
<td>V7174</td>
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<tr>
<td>W8146</td>
<td>West Side</td>
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<td>W SN 00208</td>
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<td>Equipment</td>
<td>Description</td>
<td>Model</td>
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<td>113</td>
<td>CAP00151963</td>
<td>Sky Cap Cadet</td>
<td>00344</td>
</tr>
<tr>
<td>214</td>
<td>CAP0151964</td>
<td>Sky Cap Cadet</td>
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<tr>
<td>214</td>
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<td>Sky Cap Cadet</td>
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<tr>
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<td>Sky Cap</td>
<td>JTH13</td>
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CITY OF EL PASO, TEXAS
AGENDA ITEM DEPARTMENT HEAD'S SUMMARY FORM

DEPARTMENT: El Paso Police Department

AGENDA DATE: June 23, 2009

CONTACT PERSON/PHONE: A/C Eric Shelton (915) 564-7309
                                      Jorge Acosta (915) 564-7119, Terrence Freiburg, Purchasing Manager 541-4313

DISTRICT(S) AFFECTED: Citywide

SUBJECT:
The El Paso Police Department is requesting City Council to approve ESI Companies (an authorized Genetec/AutoVu partner) as the selected vendor under a GSA (General Services Administration) contract (GS-07F-0185U SIN 426-45) to provide Five (5) Complete Mobile Skyco Blueprinting Systems Permanent Mount License Plate Readers for vehicles, Two (2) Skyco Mobile Trailers, Two (2) AutoVu Portable Sharp Units License Plate Readers with magnetic mounts (for mobility), One (1) Portable Autopatrol kit/installation, One (1) AutoVu Back-office Upgrade (to upgrade previously purchased LPR), One (1) AutoVu Back office software and software license and all the necessary hardware, software, installation and training.

The selection of this vendor was based on a GSA agreement submitted to the Purchasing Department and taking into consideration the needs of the El Paso Police Department. 

BACKGROUND / DISCUSSION:
The El Paso Police Department is requesting the delivery, installation, training and service of the above listed equipment to be provided by ESI/AutoVu utilized by the EPPD to help detect stolen vehicles involved in criminal activity such as, kidnapping, homicide, and auto theft, as well as to discover vehicles with outstanding parking citations. The funding will be covered by The Texas Office of Emergency Management, Border Security Equipment Technology Grant (BSET), to purchase this equipment. The State has already awarded the El Paso Police Department with adequate funding to cover this purchase.

PRIOR COUNCIL ACTION:
No

AMOUNT AND SOURCE OF FUNDING:
The initial cost of the proposed is $299,754.00 which will be paid with city funds, however the State of Texas will reimburse the general fund (see below). The amount listed is according to the quote (see attached) provided to the Purchasing Dept and the Police Department. The grant will reimburse the City of El Paso; thus, no matching funds are required.

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Grant Number</th>
<th>Class</th>
<th>Fund Number</th>
<th>Account</th>
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<td>BSET Grant Border Security Equipment Technology</td>
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<td>G210832</td>
<td>21000</td>
<td>05444</td>
<td>508010</td>
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****************************************REQUIRED AUTHORIZATION****************************************

LEGAL: (if required) 

FINANCE: (if required)

DEPARTMENT HEAD: 

(Example: if RO is initiated by Purchasing, client department should sign also)

INFORMATION COPY TO APPROPRIATE DEPUTY CITY MANAGER

APPROVED FOR AGENDA:

CITY MANAGER:  DATE:  - 10064 -
Please place the following item on the REGULAR agenda of June 23, 2009.

Item should read as follows:

Request that the Purchasing Manager for Financial Services, Purchasing Division, be authorized to issue a Purchase Order to ESI Companies, Inc., a contractor under General Services Administration (GSA) Contract No. GS-07F-08157 SIN 426-4S in the estimated amount of $299,754.00 for the purchase of five (5) Mobile Skycap License Plate Readers (LPRs), two (2) Skycap Mobile Trailers, two (2) Autovu Portable LPRs, and various upgrade kits, software and hardware.

Department: Police
Estimated Amount: $299,754.00
Funds Available In: 21150002 – 508010 – 05444 – G210832
Funds Source: BSET Grant Border Security Equipment Technology
District(s): All
1A. Request that the Purchasing Manager for Financial Services, Purchasing Division, be authorized to issue a purchase order to ESI Companies, Inc., a contractor under General Services Administration (GSA) Contract No. GS-07F-08157 SIN 426-4S, for the purchase of five Mobile Skycop License Plate Readers (LPRs), two Skycop Mobile Trailers, two Autovu Portable LPRs, and an upgrade kit, and necessary software and hardware in the estimated amount of $299,754.

Department: Police
Account No.: 21150002 – 508010 – 05444 – G210832
Funding Source: BSET Grant Border Security Equipment Technology
Total Estimated Award: $299,754
Reference No.: 2009-225
Districts: All
[Financial Services/Purchasing, Terrence Freiburg, (915) 541-4313]
TO: Terry Freiberg, Purchasing
FROM: Chief Greg K. Allen
RE: Justification Memo for the Purchase of Complete Mobile Skycop Systems via the BSET Grant
DATE: June 15th, 2009

The Texas Office of Emergency Management has awarded the El Paso Police Department The Border Security Equipment Technology grant (BSET) to purchase police related equipment. The EPPD has elected to purchase Five (5) Complete Mobile Skycop Systems Permanent Mount License Plate Readers for vehicles, Two (2) Skycop MobileTrailers, Two (2) Autovu Portable Sharp Units License Plate Reader with magnetic mounts, One (1) Portable Autopatrol kit/installation, One (1) Autovu Back-office Upgrade (to upgrade previously purchased LPR), One (1) Autovu Back office software and software license and all the necessary hardware, software, installation and training.

Currently, the Auto Theft Task Force has one LPR which has proven to be an effective technological tool to discover and recover stolen vehicles. On behalf of the EPPD I am requesting to purchase the above listed equipment. These units would be distributed among the five Regional Commands and the Auto Theft Task Force.

The LPRs listed in the attached quote are complete, integrated, and compatible to one another and the LPR which we currently own, which ensure accurate communication and archiving of data through the city network system.

In addition to comparing license plate numbers to a database (hotlist), the cameras are equipped with thermal imaging, which will assist an officer looking for a suspect hiding in a dark area. Furthermore, the cameras can be used to record incidents and can be operated (pan & tilt) through the touch screen feature.

The total cost of the equipment, installation, training, and service is $299,754.00. This amount will be completely funded by the BSET grant.

The purchase will not involve a bidding process as the vendor has a GSA contract, (GS-07F-0185U SIN 426-4S).
The El Paso Police Department recommends utilizing the BSET Grant (Border Security Equipment Technology Grant # G210832, Department 215002, Class 21000, Fund Number 05444, Account 508010) GSA Contract Schd 84-GS-07F0185U to issue a $299,754.00 purchase order to ESI Companies for the purchase of 5 Complete Mobile Skycop Systems, 2 Skycop Mobile Trailer License Plate Reader Portable Sharp Unit, 1 AutoVu Back-Office Upgrade and all necessary hardware, software installation and training. Each Regional Command will receive one Complete Skycop License Plate Reader and the remainder of the equipment will be utilized by the Auto Theft Task Force.

The following are the factors used to evaluate the use of this procurement program as the best approach:

1. Is there an urgent need for the product/service? In other words, is time of the essence?

Yes. The El Paso Police Department continues to experience high volumes of motor vehicle thefts which directly impact the quality of life for the citizens of El Paso. The EPPD, with the assistance of this technology, will be better able to detect, deter and recover stolen vehicles.

2. Does the purchase through the Program promote the standardization of equipment?

Yes. The License Plate Readers are complete, integrated and compatible with one another. The readers will ensure accurate communication and archiving of data through the city network system.

3. Does the purchase through the Program support local business? If not, is there a comparable product/service available locally?

No, local business is not supported. There is no local company that manufactures this product.

4. Do the available vendors have prior work experience and/or familiarity with the City?

Yes. ESI has previously worked with the city installing the first License Plate Reader at the Auto Theft Task Force office in October of 2007.
5. Is the pricing reasonable as compared to other similar products/work performed for the City of El Paso in the past or as quoted from other companies?

Price reasonableness has been established because the General Services Commission used a competitive bidding process in the awarding of the contract.

Under The Local Preparedness Acquisition Act, signed June 26, 2008, authorizes State and Local government to purchase from GSA alarm and signal systems, facilities management system, firefighting and rescue equipment, law enforcement and security equipment, marine craft and related equipment, special purpose clothing and related services.
Contractor Information

<table>
<thead>
<tr>
<th>Source</th>
<th>Title</th>
<th>Contract Number</th>
<th>Contract Terms &amp; Conditions</th>
<th>Contract End Date</th>
<th>Category</th>
<th>View Items Available</th>
</tr>
</thead>
</table>
TOTAL SOLUTIONS FOR LAW ENFORCEMENT, SECURITY, FACILITIES MANAGEMENT, FIRE, RESCUE, CLOTHING, MARINE CRAFT AND EMERGENCY/DISASTER RESPONSE - The Local Preparedness Acquisition Act, signed June 26, 2008, authorizes state and local governments to purchase from GSA alarm and signal systems, facility management systems, firefighting and rescue equipment, law enforcement and security equipment, marine craft and related equipment, special purpose clothing, and related services.

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>246 60 1</td>
<td>Security Systems Integration and Design Services - Services involving the security integration and/or management discipline which supports security products or systems through their life cycle. Security Systems integration and design services may include, but are not limited to those associated with the design, test, production, fielding, sustainment, improvement of cost effective security and/or protection systems including the eventual disposal or salvage of these systems. Services may include studies and analysis such as risk assessment, threat evaluation, and assessment (including resultant deliverables). Contractors may provide security or protection expertise in the pre-production or design phase of security or protection systems to ensure that the system can be supported through its life-cycle and that the infrastructure elements necessary for operational support are identified and acquired. These services may continue through the life cycle of the system or product and may include guidance, assistance and/or operational support. This includes all necessary security management elements.</td>
</tr>
<tr>
<td>246 60 2</td>
<td>Security Management and Support Services - Services providing the best practices, technologies and methodologies to plan, design, manage, operate and maintain secure and protected systems, equipment, facilities and infrastructures. Agency orders may include complete turnkey operations, maintenance and support services, or components thereof as needed to ensure secure and protected systems involving personnel security, physical access, and information security, and reduce life cycle costs. Contractor personnel carrying out these activities, to include management and operating staffs, are not involved with or responsible for the core business of the customer agency placing the order.</td>
</tr>
<tr>
<td>246 60 3</td>
<td>Security System Life Cycle Support - Services providing for design, coding, integration, testing, deploying, repair and maintenance of integrated security systems, and training across all platforms, enterprise wide, for the complete life cycle of the system.</td>
</tr>
</tbody>
</table>
426 1B  Body Armor - (including canine body armor) and Ancillary Services such as Alterations, Measuring, etc.

426 1C  Helmets

426 1D  Restraining Equipment - Consisting of Cuffs, Batons, CN, CS and OC Munitions, Other Less-Than-Lethal Munitions, Distraction Devices and Accessories such as Neutralizers and Gas Masks

426 1G  Miscellaneous Non-Personal Law Enforcement Equipment - Including Forced Entry Tools and Vehicle Disabling Equipment

426 2A  Canine Training and Handling Equipment, Canine Search and Detection

426 3A  Emergency Signal Systems - Consisting of Sirens, Light Bars, Spot and Flood Lights, Beacon Warning Devices, Public Address Speakers and Systems and Control consoles

426 3B  In-Vehicle Protection and Restraint Systems

426 4C  Night Vision Equipment - to Include Camera Equipment used in conjunction with night vision equipment

426 4D  Alcohol Detection Kits and Devices

426 4E  Bomb Disposal and Hazardous Material Protective and Detective Equipment

426 4F  Emergency Preparedness and First Responder Equipment, Training and Services - Includes but not limited to Continuance of Operations Planning (COOP) services, decontamination kits and showers, mass casualty containment trailers, survival/disaster and rapid deployment kits, hazardous material detection equipment and clothing, and emergency response training.

426 4G  Firearms Storage, Securing and Cleaning Equipment; Unloading Stations; Bullet Recovery Systems and Gun Racks. - THIS SIN DOES NOT INCLUDE FIREARMS OR AMMUNITION

426 4J  Target Systems/Target Range Accessories - to Include Shatter Resistant Protective Lenses and Shooters Gloves. THIS SIN DOES NOT INCLUDE FIREARMS OR AMMUNITION

426 4K  Metal and Bomb Detection Equipment: - Includes Airport Security, also ancillary services such as Installation, training, etc.

426 4L  Fingerprinting/Palmprinting (Taking and Detection) and Evidential Casting Materials

426 4M  Drug Testing Equipment and Kits - to Include Ancillary drug testing services

426 4N  Criminal Investigative Equipment and Supplies - consisting of: Forensic Investagative Equipment (Tissue Detection and Location); Questioned Document Exam. Supplies/Kits; Chemical Analysis Test Kits for Testing Blood Stains, Gun Powder Residue and Seminal Fluid Stains; Electronic Countermeasure Equipment; Invisible Detection Materials (Theft Detection); Evidence Collection Containers, etc.

426 4Q  Vehicle Monitor (Tracking) Systems

426 4S  Surveillance Systems: - Includes CCTV, Vehicular Video, Mirrors and Binoculars, Observation Towers, Covert Systems and Ancillary Services such as Installation, Training, etc.

426 5A  Aircraft Armoring and Ancillary Services
CITY OF EL PASO PURCHASING DEPARTMENT
VENDOR INFORMATION FORM

This form must be accompanied by an IRS Form W-9

[ ] Add [ ] Update [ ] Inactivate [X] Vendor [ ] Contractual Employee [ ] City of El Paso Employee

Send To: Suky Flores, Info Entry Operator - Purchasing Telephone #: 915-541-4179 Fax #: 915-541-4229

From: Name: City Department: Tel. #:

VENDOR SALES ADDRESS: If same as W-9 check box [X]

Company Name: ESI Companies, Inc.

Street: 1861 Vendor Avenue Drive

City: Memphis State: TN Zip Code: 38134

Contact Name & Title: John Osteen, Sales Vice President

Telephone #: (901) 386-7340 Fax #: (901) 323-7790

E-Mail Address: jsteen@esicompanies.com Web Page:

VENDOR STATUS:

(Yes [X] (No [ ]) Small business concern (Less than $1,000,000.00 Annual Receipts or [100 employees].)

(Yes [X] (No [ ]) Disadvantage business concern (At least 51% owned by one or more socially disadvantaged individuals; or, a publicly-owned business at least 51% of the stock owned by one or more of such individuals.) If your company is certified please send us a photo copy. We must have an updated copy of the certificate on file. DBES include (Please mark one:)

( ) Black Americans ( ) Hispanic Americans

( ) Native Americans ( ) Asian-Pacific Americans

(Yes [X] (No [ ]) Woman-owned business (At least 51% owned by a woman or women who also control and operate it. “Control” in this context means exercising the power to make policy decisions. “Operate” in this context means being actively involved in the day-to-day management.)

(Yes [X] (No [ ]) Handicapped (At least 51% owned by a person or persons with an orthopedic, hearing, mental or visual impairment which substantially limits one or more of his/her/their major life activities.)

(Yes [X] (No [ ]) Local business enterprise (At least 51% of which is owned by a resident or residents of El Paso County and the principal place of business is in El Paso County.)

(Yes [X] (No [ ]) Hub (Historically underutilized business) If your company is certified please send us a photo copy. We need to have an updated copy of the certificate on file.

CITY OF EL PASO EMPLOYEES (IRS-Withholding not required for the following items)

[ ] Pension [ ] Refund [ ] Mileage [ ] Reimbursement [ ] Settlement [ ] Travel Request [ ] Tuition Reimbursement

CONTRACTUAL EMPLOYEES OR VENDORS

- Based on W-9, Individual/Sole Proprietor or Partnership are marked as withholding. Corporation is not marked as withholding.
- Vendors for Rent, Medical Services, Attorney Fees are always marked as withholding, even if they are a Corporation.

IRS-Withholding required information – Mark one of the following which applies to the type of payment that will be made to the vendor: (Incomplete forms will be returned to requester)

[ ] Wages (Withholding / Default Class 7) [ ] Juror (No Withholding / No Default Class)

[ ] Goods (No Withholding / No Default Class) [ ] Services (Withholding / Default Class 7)

[ ] Settlement / Attorney Proceeds (Withholding / Default Class 14) [ ] Rental Property (Withholding / Default Class 1)

[ ] Medical & Healthcare (Withholding / Default Class 6) [ ] Stipend (No Withholding / No Default Class)

[ ] Garnishment Vendor (No Withholding / No Default Class) [ ] Corporation (No Withholding/ No Default Class)

- 10073 -
Request for Taxpayer Identification Number and Certification

Name as shown on your income tax return

EST Companies, Inc.

Business name, if different from above

Print or type:

Check appropriate box:  ☐ Individual ☐ Sole proprietor ☐ Corporation ☐ Partnership ☐ Other ☐ Exempt from backup withholding

Address (number, street, and apt. or suite no.)

1861 Vanderbrook Drive

City, state, and zip code

Memphis, TN 38134

Party’s name and address (optional)

Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your Social Security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see How to get a TIN on page 3.

Note: If the account is in the name of one person, use the chart on page 4 for guidelines on whose number to enter.

Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or if I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. person (including a U.S. resident alien).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply.

For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (See the Instructions on page 4.)

Sign Here

Signature of U.S. person

Date

Purpose of Form

A person who is required to file an information return with the IRS, must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

U.S. person. Use Form W-9 only if you are a U.S. person, including a resident alien, to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee.

In 1 above, if applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners’ share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester’s form if it is substantially similar to this Form W-9.

For federal tax purposes, you are considered a person if you are:

☐ An individual who is a citizen or resident of the United States,
☐ A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
☐ Any estate (other than a foreign estate) or trust. See Regulations sections 301.7701-6(a) and 7(a) for additional information.

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners’ share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

☐ The U.S. owner of a disregarded entity and not the entity,
### Activity Summary

**Unit:** COFEP  
**PO:** 2009003552  
**Vendor:** ESI COMPANIES INC  
**PO Status:** Dispatched

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<th>Line</th>
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<th>Order Qty</th>
<th>Amount Ordered</th>
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<td>141050.000</td>
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<td></td>
<td>Two SkyCop Cadet Model SC-MTBG</td>
<td>EA</td>
<td>2.0000</td>
<td>39000.000</td>
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<tr>
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<td></td>
<td>One SH-390-001186 -(25 mm le)</td>
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<td>Two SH-390-001185 -(16 mm l)</td>
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<td>19144.000</td>
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- Qty Acctd: 2.0000

**Invoice**
- Qty Invdc: 2.00
- Amt Invdc: 3520.000

**Matched**
- Qty Mtd: 2.0000
- Amt Mtd: 3520.000

**Open Qty:** 0.0000  
**Open Amt:** 0.000

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11/16/2009
I. PURPOSE
The purpose of this policy is to provide officers with guidelines on the proper use of license plate recognition (LPR) systems, also commonly known as license plate reader systems.

II. POLICY
The availability and use of LPR systems have provided many opportunities for the enhancement of productivity, effectiveness, and officer safety. It is the policy of this agency that all members abide by the guidelines set forth herein when using LPR systems.

III. ACRONYMS AND DEFINITIONS
\textit{FOUO}: For Official Use Only
\textit{LPR}: License Plate Recognition/License Plate Reader
\textit{OCR}: Optical Character Recognition
\textit{Read}: Digital images of license plates and vehicles and associated metadata (e.g., date, time, and geographic coordinates associated with the vehicle image capture) that are captured by the LPR system.
\textit{Alert}: A visual and/or auditory notice that is triggered when the LPR system receives a potential “hit” on a license plate.
\textit{Hit}: A read matched to a plate that has previously been registered on an agency’s “hot list” of vehicle plates related to stolen vehicles, wanted vehicles, or other factors supporting investigation, or which has been manually registered by a user for further investigation.
\textit{Hot list}: License plate numbers of stolen cars, vehicles owned by persons of interest, and vehicles associated with AMBER Alerts that are regularly added to “hot lists” circulated among law enforcement agencies. Hot list information can come from a variety of sources, including stolen vehicle information from the National Insurance Crime Bureau and the National Crime Information Center (NCIC), as well as national AMBER Alerts and Department of Homeland Security watch lists. Departments of motor vehicles can provide lists of expired registration tags, and law enforcement agencies can interface their own, locally compiled hot lists to the LPR system. These lists serve an officer safety function as well as an investigatory purpose. In addition to agency supported hot lists, users may also manually add license plate numbers to hot lists in order to be alerted if and when a vehicle license plate of interest is “read” by the LPR system.
\textit{Fixed LPR system}: LPR cameras that are permanently affixed to a structure, such as a pole, a traffic barrier, or a bridge.
\textit{Mobile LPR system}: LPR cameras that are affixed, either permanently (hardwired) or temporarily (e.g., magnet-mounted), to a law enforcement vehicle for mobile deployment.
\textit{Portable LPR system}: LPR cameras that are transportable and can be moved and deployed in a variety of venues as needed, such as a traffic barrel or speed radar sign.
\textit{DID}: Directed Investigations Division
\textit{LPRDA}: LPR Database Administrator

IV. PROCEDURES
A. General
1. The use of LPR systems is restricted to public safety–related missions of this agency.
2. LPR systems and associated equipment and databases are authorized for official public safety purposes. Misuse of this equipment and associated databases, or data, may be subject to sanctions and/or disciplinary actions.
3. LPR systems and LPR data and associated media are the property of this agency and
intended for use in conducting official business with limited exceptions noted elsewhere in this policy.

B. Administration

1. The LPRDA is responsible for the administrative oversight for LPR system deployment and operations and is (are) responsible for the following:
   a. Establishing protocols for access, collection, storage, and retention of LPR data and associated media files
   b. Establishing protocols to preserve and document LPR reads and “alerts” or “hits” that are acted on in the field or associated with investigations or prosecutions
   c. Establishing protocols to establish and ensure the security and integrity of data captured, stored, and/or retained by the LPR system
   d. Ensuring the proper selection of the personnel approved to operate the LPR system and maintaining an adequate number of trainees;
   e. Maintaining records identifying approved LPR deployments and documenting their results, including appropriate documentation of significant incidents and arrests that are related to LPR usage
   f. Authorizing any requests for LPR systems use or data access according to the policies and guidelines of this agency

2. Designated, trained personnel shall check equipment on a regular basis to ensure functionality and camera alignment. Any equipment that falls outside expected functionality shall be removed from service until deficiencies have been corrected.

3. LPR systems repairs, hardware or software, shall be made by agency authorized sources.

4. In cases where the LPR is malfunctioning or in need of maintenance, an email will be sent to the LPRDA by the station manager advising of the malfunction.

C. License Plate Reader System Usage

1. LPR operation and access to LPR collected data shall be for official agency purposes only.

2. Only officers who have been properly trained in the use and operational protocols of the LPR systems shall be permitted to use it.

3. At the start of each shift users must ensure that the LPR system has been updated with the most current hot lists available.

4. LPR Alerts/Hits: Prior to initiation of the stop:
   a. Visually verify that the vehicle plate number matches the plate number run by the LPR system, including both alphanumeric characters of the license plate and the state of issuance.
   b. Verify the current status of the plate through dispatch or MDT query when circumstances allow.

5. In each case in which an alert or a hit is triggered, the user should record the disposition of the alert and the hit into the LPR system

6. Hot lists may be updated manually if the user enters a specific plate into the LPR system and wants to be alerted when that plate is located. Whenever a plate is manually entered into the LPR system, the officer should document the reason with notification to the LPRDA.

7. Special Details: LPR use during nontraditional deployments (e.g., special operations or during a criminal investigation) must be approved by the administrator.

8. Searches of historical data within the LPR system should be done in accordance with established departmental policies and procedures.

D. LPR Data Sharing and Dissemination
LPR data should be considered FOUO and can be shared for legitimate law enforcement purposes:

1. When LPR data are disseminated outside the agency, it should be documented in a secondary dissemination log.
2. Information sharing among agencies should be dictated in accordance with MOUs (memoranda of understanding) or established departmental policies.

E. Retention

1. State, local, and department retention schedules will be followed.
2. Any data obtained by use of the LPR which provided for probable cause, or reasonable suspicion for further action will be preserved as potential evidentiary value.
I. INTRODUCTION

A. Purpose of Document

This paper is designed to accompany the Model Policy on License Plate Reader ("LPR") Systems published by the IACP Law Enforcement Information Management (LEIM) Section and the IACP National Law Enforcement Policy Center. This paper provides essential background material and supporting documentation to provide greater understanding of the developmental philosophy and implementation requirements for the model policy.

It is anticipated that this material will be of value to law enforcement executives in their efforts to tailor an effective LPR policy to meet their agencies strategic objectives and operational requirements.

B. Acronyms and Definitions

The model policy provides a number of definitions that are of particular importance including the terms “alert,” “hit,” “hot list,” and “read” as well as differentiating between the three categories of LPR systems: fixed, mobile, and portable. Given that the use of the system may not be restricted to sworn personnel, the term “user” is employed throughout this document and the model LPR policy to refer to any individual who can access information and use the system.

- FOOU: For Official Use Only
- LPR: License Plate Recognition/License Plate Reader
- OCR: Optical Character Recognition
- Read: Digital images of license plates and vehicles and associated metadata (e.g., date, time, and geographic coordinates associated with the vehicle image capture) that are captured by the LPR system.
- Alert: A visual and/or auditory notice that is triggered when the LPR system receives a “hit” on a license plate.
- Hit: A read matched to a plate that has previously been registered on an agency’s “hot list” of vehicles related to stolen vehicles, wanted vehicles, or other factors supporting investigation, or which has been manually registered by a user for further investigation.
- Hot list: License plate numbers of stolen cars, vehicles owned by persons of interest, and vehicles associated with AMBER Alerts that are regularly added to “hot lists” circulated among law enforcement agencies. Hot list information can come from a variety of sources, including stolen vehicle information from the National Insurance Crime Bureau and the National Crime Information Center (NCIC), as well as national AMBER Alerts and Department of Homeland Security watch lists. Departments of motor vehicles can provide lists of expired registration tags, and law enforcement agencies can also interface their own, locally compiled hot lists to the LPR system. These lists serve an officer safety function as well as an investigatory purpose. In addition to agency supported hot lists, users may also manually add license plate numbers to hot lists in order to be alerted if and when a vehicle license plate of interest is “read” by the LPR system.

- Fixed LPR system: LPR cameras that are permanently affixed to a structure, such as a pole, a traffic barrier, or a bridge.
- Mobile LPR system: LPR cameras that are affixed, either permanently (hardwired) or temporarily (e.g., magnet-mounted), to a law enforcement vehicle for mobile deployment.
- Portable LPR system: LPR cameras that are transportable and can be moved and deployed in a variety of venues as needed, such as a traffic barrel or speed radar sign.

C. Background

A fundamental element of policing is locating vehicles that are wanted because the vehicle is stolen, wanted in connection with a crime, or driven by a subject who is wanted or suspected of committing a crime or otherwise of interest to law enforcement. Patrol officers are frequently provided with written descriptions of vehicles and/or license plates at the beginning of their shifts and asked to be on the lookout for these vehicles, or they build these lists contemporaneously during their shifts in response to offenses that are reported and calls for service. Managing these paper lists—remembering or writing down descriptions of vehicles and/or license plates and trying to maintain a constant observation for vehicles of interest—is difficult and time consuming. Investigators must rely upon witness statements to determine what areas a subject frequents and may be located.

Automated license plate recognition (LPR) systems, or license plate readers as they are commonly referred to, play an increasingly important role in public safety by enhancing productivity, effectiveness, and officer safety. LPR systems are able to recognize, read, and compare motor vehicle license plates against var-
ious “hot lists” much more efficiently than officers manually scanning and making comparisons while on routine patrol. LPR systems can observe and record over 1,000 license plates an hour in various lighting and weather conditions. LPR cameras can be fixed, mobile, or portable. A fixed LPR unit is permanently mounted, usually to a bridge or a pole, and frequently in a jurisdiction’s most heavily traveled points of ingress and egress. Mobile LPR units are mounted to law enforcement agency vehicles and can capture data from any area within an agency’s jurisdiction. Portable LPR cameras can be moved from vehicle to vehicle or deployed in covert configurations.

The license plate numbers of stolen cars, vehicles owned by persons of interest, and vehicles associated with AMBER Alerts are routinely added to “hot lists” circulated among law enforcement agencies. These lists serve an officer safety function as well as an investigatory purpose. LPR systems function in such a way as to notify an officer when a license plate on the hot list is observed in real time. Historical LPR data can also be searched to determine the date and time a license plate number contained on a hot list passed a certain camera.

The model LPR policy outlines general policies specific to LPR systems deployment and operations, and notes that policies departments may already have in place regarding information sharing and information technology security protocols may be sufficient to address similar concerns regarding LPR systems, though they may need to be updated.

II. HOW LICENSE PLATE READERS FUNCTION

LPR systems consist of high-speed cameras combined with sophisticated computer algorithms capable of converting the images of license plates into electronically readable data. Systems in existence as of the date of this report are routinely capable of capturing multiple license plate images per second on vehicles traveling at high speeds.

A. LPR Operations

An essential element of any LPR system is the camera hardware that captures the image of the license plates. The quality of the captured image lays the foundation for the overall performance of the system. LPR systems typically utilize specialized cameras designed to capture images of license plates, either from static positions or mobile patrol vehicles.

Factors that pose difficulty for license plate imaging cameras include the speed of the vehicles being recorded, the distance and the angle of the vehicles from the camera, varying ambient lighting conditions, headlight glare, and harsh environmental conditions. In order to address these difficulties, many LPR systems employ infrared cameras operating in addition to visible light cameras.

The optical character recognition (OCR) of images captured by LPR cameras is performed through the use of sophisticated algorithms. Six primary algorithms that LPR system software requires to identify a license plate include:
- plate localization, which finds and isolates the plate contained in the picture;
- plate orientation and sizing, which compensates for the skew of the plate and adjusts the dimensions to the appropriate size and shape;
- normalization, which adjusts the brightness and contrast of the image;
- character segmentation, which finds the individual characters on the plates;
- optical character recognition, which converts the image into actual characters; and
- syntactical/geometrical analysis, which checks characters and positions against state-specific rules to identify the state of issuance for the license plate.

Many LPR systems utilizing mobile LPRs are equipped with global positioning system (GPS) receivers. This allows mobile and portable units to record the date, time, and location of license plate image capture. Data such as date and time stamps and GPS coordinates can be reviewed in relation to investigations and can help lead to critical breaks, such as placing a suspect at a scene, witness identification, pattern recognition, or the tracking of previously identified suspects.

LPR cameras take digital and infrared pictures of vehicles and license plates as they pass through the field of view of an LPR camera. These images, and the metadata associated with them (described in more detail below), can be used in a variety of public safety contexts and the amount of information utilized from an LPR system can vary depending upon an agency’s objectives. Fixed LPR units in operation at national border crossings, for example, which often operate in a setting consisting of slow-moving lanes of traffic, may collect different information than a mobile LPR camera operated by a local law enforcement agency.

Images of vehicles and license plates are the primary form of information collected by an LPR system. OCR is performed on these images and the alphanumeric characters on each license plate are rendered into an electronically readable format. LPR cameras can attach date, time, and geographic location information to an image.

The image collected by an LPR camera is maintained in the information system to provide a means of ensuring that the license plate number was properly converted into an electronically readable format. This digital image, sometimes referred to as a contextual photo, can include additional information that is not necessarily electronically recorded. LPR systems may contain information including the following:
- OCR of license plate numbers;
- Digital images of license plates as well as the vehicle’s make and model;
- Digital image of the vehicle’s driver and passengers;
- Images of distinguishing features (e.g., bumper stickers, damage);
- State of registration;
- Camera identification (mobile cameras may capture officer identification and vehicle/unit number);
- GPS coordinates or other location information; and
- Date and time of observation.

The contextual photo provides a more inclusive view of the vehicle and its surroundings. Depending on the focal length of the camera and the distance of capture, the photo may provide a view of part or all of the vehicle, its surroundings, and possibly the occupants of a vehicle. This information may be helpful in, among other things, (a) identifying the vehicle by providing color or unique attributes such as damage or bumper stickers, (b) confirming the location of the LPR camera that took the photograph, or (c) confirming the identity of a vehicle’s occupant.

Although a contextual photo contained in an LPR system may contain a great deal of raw information, only certain pieces of information contained in any LPR photograph will be subjected to OCR and rendered into an electronically readable format. These include images of vehicle occupants, vehicle make and model, and
any distinguishing features of a vehicle contained in a contextual photo are not electronically readable or compiled by existing LPR systems.

B. LPR Hot Lists

Many of the primary uses of LPR data involve the comparison of license plate numbers collected by an LPR system to numbers contained on a previously compiled list. These hot lists may be compiled by the local law enforcement agency utilizing the LPR system or by other state or federal government agencies. The purpose of these lists is to inform law enforcement officials which vehicles are of interest to law enforcement and why, alerting officials when such a vehicle displaying a license plate number that is included on a hot list is near an LPR camera. This can be done in real time or through the use of historical LPR data.

The use of hot lists is essential to LPR systems intended to serve public safety purposes, and the actions taken by law enforcement officers informed of a “hit” will vary depending upon the list that contains the vehicle’s license plate number. Limiting the number of hot lists uploaded to an LPR system is recommended to guard against the system “crying wolf.” If law enforcement officers are bombarded by an alert at every third license plate that passes the LPR camera due to the inclusion of too many hot lists, a danger might exist that officers may turn off the system or otherwise ignore alerts during their shifts. Including only those hot lists that further the law enforcement agency’s goals is one way to guard against this danger. Local agencies are ultimately responsible for selecting which hot lists to upload onto their LPR systems.

Compiling and Managing of LPR Hot Lists. Managing hot lists is a key element to the success of an LPR system. The content of hot lists should be monitored to protect people whose vehicles license plate numbers are contained on such lists from continued and unnecessary annoyance. While some hot lists focus on identifying a particular vehicle regardless of who is operating it (e.g., stolen cars, AMBER alerts), other lists include license plate numbers known to be associated with specific individuals (e.g., sex offenders, wanted persons). These hot lists, whether they relate to stolen cars or potential occupants of vehicles, enhance law enforcement agencies’ ability to detect crime and provide critical officer safety information.

LPR hot lists are compiled to serve agency-specific needs. Hot lists may include, for example, license plate numbers of vehicles known to be operated by (a) violent probationers and parolees; (b) violent gang members; (c) individuals with outstanding warrants; and (d) individuals identified as witnesses. In some instances, individuals provide the license plate numbers of vehicles they may operate; in others, departments of motor vehicles may provide license plate numbers of vehicles registered to individuals. In still other circumstances, license plate numbers may be linked to certain individuals by direct observation and documentation by law enforcement officers.

When developing their own hot lists, law enforcement agencies should develop a process that sets forth criteria for including certain license plate numbers on a hot list. For instance, in order to activate an America’s Missing: Broadcast Emergency Response (AMBER) Alert certain criteria must be met. Specifically, a juvenile (a) must have been confirmed as abducted, (b) is under the age of 16 or has a proven mental or physical disability, and (c) is in danger of serious bodily injury. There also needs to be enough descriptive information to believe that a broadcast alert will help. Additionally, agencies may consider providing a process whereby by a license plate number’s inclusion on a hot list can be verified. Providing for verification is one way of monitoring the accuracy of data contained on a hot list. It also helps ensure that law enforcement officials act only upon complete, correct, and timely information. Agencies should also develop procedures for removing license plate numbers that do not belong on a particular hot list.

Updating and Sharing Hot Lists. Hot lists are typically uploaded onto an LPR system daily and can be updated by the authoring agency or an officer in the field. Hot list information can come from a variety of sources, including, but not limited to, stolen vehicle information from the National Insurance Crime Bureau and the National Crime Information Center (NCIC), as well as national AMBER Alerts and Department of Homeland Security watch lists. Departments of motor vehicles can provide lists of expired registration tags and police departments can also interface their own hot lists to the LPR system. Hot lists can be uploaded onto an LPR system either as separate lists or merged into a single list.

Law enforcement officials have access to the license plate numbers contained on multiple LPR hot lists. Some hot lists will contain numerous license plate numbers, and officials may not be able, or desire, to review their entire contents. For purposes of sharing hot lists across jurisdictions, it may be beneficial for law enforcement agencies that create hot lists to maintain supporting documentation regarding why a particular license plate number is on the specific hot list and make that information available, upon request, to the agency utilizing that hot list as part of its LPR system.

The heads of law enforcement agencies are ultimately responsible for determining which hot lists are uploaded onto the agency’s LPR system and what actions officers take in response to an LPR hit. Agencies should establish criteria for determining which hot lists will be uploaded onto the LPR system. Since hot lists are created to enhance law enforcement officers’ abilities to conduct investigations and provide for officer safety, the contents of hot lists should not be disseminated to the public.

III. DATA QUALITY

LPR cameras capture images of vehicles and license plates, and OCR software, utilizing sophisticated algorithms, translates the alphanumeric characters on each license plate into an electronically readable format. The image collected by an LPR camera is maintained in the information system to provide a means of ensuring that the license plate number was properly converted into an electronically readable format. An LPR system’s ability to accurately identify the characters on a license plate lies at the heart of the data quality issue.

A. OCR Accuracy

Many variables affect OCR accuracy. Each state has multiple license plate designs, and plates vary significantly from state to state. For maximum effectiveness, LPR systems must be properly configured to recognize the design and layout of plates most likely to be encountered in the area of operation. The shape of the characters, amount of contrast between a particular state’s background and the color of the license plate characters, and whether the characters are raised or flat can all impact the accuracy of the OCR read.

Poor image resolution, and thus poor character recognition, can be the result of several factors. License plates can be too far
away for the capabilities of the LPR camera to capture and motion blur can also occur. Poor lighting and low contrast due to overexposure, reflection, adverse weather conditions, or shadows can also result in a poor image quality. Occasionally, an object might obscure all or a portion of the license plate and interfere with accurate OCR. Oftentimes the object is a tow bar, dirt on the license plate, or a loaded bike rack; other times the object may be an LPR circumvention device. Increasing the height of the LPR camera may correct some of these problems; however, changing the position of the LPR camera with respect to the license plate it is supposed to read may require the system to adjust for the new orientation and increased skew of the license plate.

From time to time, states may make significant changes in their license plate formats and designs that can substantially impact OCR accuracy. For instance, a state might add a character or issue a new license plate design. LPR systems must adapt to these changes quickly in order to remain effective.

Sometimes the letter D is mistaken for a Q or an O. Other times, the characters on the license plate are sometimes cut off from the frame of the image; when this occurs, the OCR software may incorrectly read an E as an F or an A as a 7. Some colors, especially reddish tones, may be difficult for LPR system OCR software to read. Learning the type of mistakes LPR system’s OCR software makes can help investigators run queries on potentially misread license plate numbers. For these reasons the model policy specifies that officers should “[v]isually verify that the license plate on the vehicle of interest matches identically with the image captured; ‘read,’ by the LPR system, including both the alphanumeric characters of the license plate and the state of issue.”

B. Comparison of OCR Information with Hot List Data

Another data quality challenge involves the comparison of the OCR data with the license plate numbers on a hot list. States develop license plate number formats robust enough to provide unique serials for all the motor vehicles the jurisdiction expects to register. Less-populous states may use six-character formats whereas more populous states may choose to utilize a seven-character format. Complicating this factor is the fact that multiple states may utilize the same alphanumeric formats; for example, neighboring states may use three letters followed by four numbers. Thus, two cars from different jurisdictions could have the same number, but different license plate designs. As a consequence, each time a law enforcement officer is alerted to the proximity of a vehicle displaying a license plate number contained on a hot list, the user should verify that the plate that caused the alert matches the hot list data.

IV. POLICY AND PROCEDURAL DEVELOPMENT

A. System Information

Given the different types of LPR systems and that each may function in a slightly different manner, it may be beneficial for an agency to describe the system(s) and intended operational use, along with any additional supplemental information, such as best practices, not otherwise covered by policy. For example, the length of time it takes to upload and download information to the LPR unit varies depending on the data transfer method. Agency best practices may dictate that, if it is a mobile LPR system the upload/download is only initiated during refueling to reduce downtime at the station.

B. Procedural Concerns and Requirements

While LPRs enhance public safety by increasing law enforcement efficiency, public concerns regarding use, data retention, and privacy implications of the technology must be addressed by implementing departments. There are a number of measures an agency can take to address these concerns as well as other questions that may arise when implementing any new technology. These include developing an operational plan that clearly articulates the purpose(s) for using license plate readers, defines how the data will be used, and means for limiting the data within those original parameters, while allowing for those circumstances where secondary uses of the LPR system or data are needed.

Before any policy or operational plan is developed it is essential that an individual with administrative oversight be designated. This individual should be someone with sufficient authority in the agency to champion the LPR program, carry out the responsibilities listed in the model policy, and authorize any additional uses of the LPR that the agency may deem appropriate.

The administrator should also do the following:

- Stay abreast of legal trends and case law in the area of license plate readers and other electronic forms of public surveillance.
- Monitor the use of the LPR system and ensure periodic audits.
- Ensure that the LPR system is used only for appropriate agency business in keeping with agency policy and technical requirements.
- Manage the compilation of hot lists.
- Make updates to the LPR policy as needed.

LPR systems are only as good as the data they rely upon, and ensuring that the hot lists are kept current is critical to limiting the possibility that users will act or rely on erroneous information. The system administrator should establish criteria to determine which hot lists will be uploaded into the LPR system and establish any policy and procedures needed to govern manual entries of license plates into the LPR system. Manual entries, for example, should be reviewed periodically to determine whether they should be kept, and only certain individuals will be given the necessary IT permissions to perform this function. Many systems on the market already include technological controls governing manual updates entered in the hot lists and erase manual updates after a certain time period or whenever a new hot list is added.

In addition to managing the timeliness and accuracy of the information being included in the hot lists, data quality audits may be necessary and should concentrate on measuring the accuracy of the read when compared with contextual images. Data quality audits provide the agency with a baseline of its LPR system’s accuracy over time and could alert the agency to equipment or alignments problems if there is a drop-off in the accuracy rate.

Developing policy, and training consistent with that policy, can help to address concerns that automated LPR systems take the human element out of policing. At the time of this policy’s development, similar concerns had led to bans on red light cameras in at least seven states and pending legislation limiting their use in two more states. LPR systems now face the same challenge, as two states have established restrictions on the use of license plate readers.
Verifying the accuracy of the license plate read and the currency of the hot list information is essential. The model policy addresses this issue by specifying that “When an LPR alerts an officer of a hit, prior to initiation of a stop of the vehicle or other intervention based on the alert/hit, the officer should first, (a) Visually verify that the license plate of the vehicle of interest matches identically with the image captured (read) by the LPR system, including both the alphanumeric characters of the license plate and the state of issue, and (b) verify the current status of the license plate through dispatch or MT/D query to ensure the validity of the information and whether the plate is still stolen, wanted, or otherwise of interest.”

Additionally, it is important to remember that LPR systems are used to identify vehicles, not persons. In cases where agency hot lists include license plate numbers of vehicle(s) registered to persons of interest, the LPR system will alert the officer to the presence of the vehicle. The officer should act cautiously, however, to determine whether the driver is in fact the registered owner and the person of interest.

C. Security Safeguards

LPR data are sensitive enough to be categorized for official use only. As such, LPR systems should be protected by reasonable security safeguards to prevent loss or unauthorized access, destruction, use, modification, or disclosure of LPR data. Ensuring that LPR data remain secure is one way for law enforcement agencies to build public confidence.

Law enforcement agencies may consider taking several steps to help secure LPR data. LPR systems and the computers that access them should utilize antivirus software and firewalls. Additionally, it is recommended that authorized users should be given individual log-in IDs and required to utilize alphanumeric passwords consisting of a combination of upper and lower case letters, numbers, and symbols; users should also be required to frequently change their passwords and keep them safe. Law enforcement agencies should also utilize encryption technologies to protect LPR data in storage and in transit over networks.

D. Data Sharing

Most agencies already have policies concerning the dissemination and sharing of official data. Agencies should review existing information sharing policies to determine whether they adequately and appropriately cover the sharing of LPR data and make any modifications if necessary.

Since it is recommended LPR data be classified as FOUO (for official use only), agencies should maintain secondary dissemination logs when LPR data are shared outside the originating agency. Secondary dissemination logs should contain the following information:

- Description of the LPR data disseminated
- Date and time the information was released
- Identity of the individuals to whom the information was released, including agency and contact information
- Purpose for which the LPR data will subsequently be used

Such logs function as programmatic audit trails and help agencies monitor the use of the LPR data. Additionally, should the original data be revised, it may be necessary to provide the updated information to those with whom the original data were shared.

E. Data Retention

Although retention periods were once necessitated by physical storage constraints, technological advances in the electronic storage of records have made the destruction of criminal justice and law enforcement information largely unnecessary. Thus, whether to retain a piece of information indefinitely is now a matter of policy. When developing policy, consideration should be given to the fact that privacy concerns are often framed in the context of retention and agencies using LPR systems may be called upon to explain the rational for their retention policies, particularly one that maintains data for a considerable period of time.

There is no formula for determining how long LPR data should be retained, nor have standards or guidelines been established that agencies can refer to as they develop LPR data retention policies. Given the lack of professional standards in this area, this paper offers the following recommendations on criteria that should be considered in establishing retention policies:

- State and local data retention schedules
- System type(s) being deployed (fixed, mobile, portable)
- Situational realities
- Loss of value over time
- Statutes of limitations
- Potential evidentiary value

State and local data retention schedules. State and local data retention schedules supersede retention periods established by individual entities. As noted previously, two states have already established restrictions specifically focusing on license plate readers. Even where there are no state or local guidelines directly focused on license plate readers, existing guidelines related to comparable forms of electronic data and imaging systems may be applicable to LPR systems.

System type. The type of LPR system an agency uses may also play a factor in determining retention policies. Fixed LPR systems, for example, typically capture more license plate reads in a day than mobile or portable LPR systems. As a consequence, some agencies that use more than one system type establish different retention schedules for each type of deployment, with longer retention periods for mobile and/or portable LPR systems and shorter periods for fixed LPR systems.

Situational realities. Political, social, technical, and financial realities are different in every jurisdiction, and each must be weighed against the other and combined with the business needs and priorities of the agency. Where the social and political climate is more favorable to law enforcement's use of LPR systems, a longer retention period may be possible. Longer retention periods generally require more technical and financial resources for support, however, and agency objectives and priorities in the use of LPR data should substantively contribute to decisions regarding retention duration.

Loss of value over time. Historical data may lose value over time due to the sale and transfer of automobiles or the ability to obtain information from other governmental departments.

Statutes of limitations. Consideration should also be given to the mission of the agency and to the operational objectives. If the LPR data are associated with a crime that is subject to a statute of limitations, then an agency may want to set a retention period relative to that statute.

Potential evidentiary value. Potential evidentiary value may not only affect the length of retention but how the data are retained. For example, during an investigation it may be determined that
E. Privacy Concerns

Chief among all of the issues and concerns raised relative to law enforcement’s use of LPR systems is privacy. Concerns about privacy issues are similar to those raised about other forms of video surveillance (such as CCTVs, and red light cameras) and center primarily on the issues of loss of anonymity, data retention and sharing, and analysis out of context. The IACP’s Privacy Impact Assessment Report for the Utilization of License Plate Readers notes that

“The enhanced sharing, even among law enforcement personnel, of substantial amounts of information about people not immediately suspected of criminal activity may lead the public to believe that its privacy interests are being ignored. Moreover, improper disclosures of potentially sensitive information not only damage the relationship between citizens and their governmental institutions...[but] may also make people more vulnerable to physical, emotional, financial, and reputational harms.”

Law enforcement has always been permitted to record license plate numbers on vehicles in public places. The public’s perception of that process changes, however, when systems are employed to record substantial amounts of information about people who are not immediately suspected of criminal activity. Depending on the type of system deployed, the amount of data gathered, and the manner in which the data are used, LPR systems have the potential to reveal an individual’s driving habits. Concerns about privacy have been raised because of that ability, combined with enhanced sharing and aggregation of data. Specifically, LPR systems have the ability to capture a vehicle’s presence at locations or events that are lawful and public, such as political protests, doctor’s offices, or religious places of worship.

Several prominent privacy groups and LPR critics view information concerning individuals’ locations as inherently prone to abuse. The concern is not limited to law enforcement, but is extended to other members of the general public. Misuses of LPR data can potentially take several forms. One common misuse of any data system involves the improper disclosure of information about an individual that could affect an individual’s perceived character and reputation. Civil litigation may flow from personal damages of this type. Furthermore, the knowledge of a person’s location or frequent travel pattern could, for example, heighten that person’s vulnerability to property theft or physical harm if it falls into the wrong hands.

Still, there are strong arguments that persons have a diminished expectation of privacy in public spaces. It is further argued that license plate numbers identify only a specific vehicle, not a specific individual. Moreover, state laws require vehicles to be registered and generally mandate that a vehicle pass safety and emissions inspections before it can be legally driven on public roads. The public display of a license plate exists in part so that law enforcement can easily verify that the vehicle complies with the law.

The use of cameras to capture vehicle images and then use that information to identify the vehicle’s owner or operator is not a new concept. Until recently however, this technology was often time-consuming and costly to operate. It also faced a number of limiting environmental factors such as poor lighting and weather conditions, not to mention problems in producing information that could be acted upon in a timely manner. As LPR technology continues to improve, increased accuracy of these systems will better help law enforcement to identify potential suspects as well as assist in the elimination of individuals as suspects.

For a more detailed look at the privacy concerns surrounding law enforcement’s use of license plate readers and how they can be addressed it is suggested that agencies also read the IACP’s Privacy Impact Assessment for the Utilization of License Plate Readers.

ENDNOTES

1 Much of the material for this paper is drawn from the Privacy Impact Assessment for the Utilization of License Plate Readers, (Alexandria, Va.: International Association of Chiefs of Police, September 2009), http://www.theiacp.org/LinkClick.aspx?fileticket=N%2bE3wvY%2fIQ8%3d&ticketid=87 (accessed August 23, 2010).

2 Most LPR systems capture multiple images of the same vehicle and then use the best image; other systems are capable of capturing more than one vehicle per second.


5 New Hampshire bars the use of automated surveillance technologies on a public highway, (New Hampshire Revised Statutes Annotated RSA 236:130). Maine’s legislation, Maine Revised Statutes §2117-A: Use of automated license plate recognition systems, limits the use of license plate readers, sets a data retention period of no more than 21 days, and limits the entities permitted to use the technology.


Acknowledgement

This Concepts & Issues Paper was developed by the International Association of Chiefs of Police (IACP) Law Enforcement Information Management (LEIM) Section in cooperation with the IACP National Law Enforcement Policy Center. Additional support was provided by the LPR Model Policy Working Group, to whom we are deeply appreciative for sharing their agency policies and expertise.

This project was supported by Grant No. 2006-DG-BX-K004 awarded by the Bureau of Justice Assistance, Office of Justice Programs, U.S. Department of Justice. The Assistant Attorney General, Office of Justice Programs, coordinates the activities of the following program offices and bureaus: the Bureau of Justice Assistance, the Bureau of Justice Statistics, National Institute of Justice, Office of Juvenile Justice and Delinquency Prevention, and the Office of Victims of Crime. Points of view or opinions in this document are those of the author and do not represent the official position or policies of the United States Department of Justice or the IACP.
Every effort has been made by the IACP National Law Enforcement Policy Center staff and advisory board to ensure that this model policy incorporates the most current information and contemporary professional judgment on this issue. However, law enforcement administrators should be cautioned that no "model" policy can meet all the needs of any given law enforcement agency. Each law enforcement agency operates in a unique environment of federal court rulings, state laws, local ordinances, regulations, judicial and administrative decisions and collective bargaining agreements that must be considered. In addition, the formulation of specific agency policies must take into account local political and community perspectives and customs, prerogatives and demands; often divergent law enforcement strategies and philosophies; and the impact of varied agency resource capabilities among other factors.
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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total</th>
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<tbody>
<tr>
<td>1</td>
<td>SkyCop Pan &amp; Tilt System with AutoVu LPR SkyCop Surveillance</td>
<td>1</td>
<td>$20,120.00</td>
<td>$20,120.00</td>
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<tr>
<td>2</td>
<td>SC-INSTALLATION-COM - complete installation of Pan &amp; Tilt with Cameras / LPR</td>
<td>1</td>
<td>$1,440.00</td>
<td>$1,440.00</td>
</tr>
<tr>
<td>3</td>
<td>SC-INSTALLATION-WTE - On-Site Travel Expenses</td>
<td>1</td>
<td>$1,750.00</td>
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</table>

ESI will provide and install a SkyCop LPR Recognition System with optional equipment as listed above. The system will include all hardware and software for a complete and functional system. This system includes a one-year warranty on ESI supplied equipment upon completion of installation.

**Does Vendor Accept PO's?**

**YES or NO**

**Shipping and Handling / Express Fee:**

**YES or NO**

**S/H**

**Total** $31,320.00
## Purchase Order

### Details

**Vendor:**
ESI COMPANIES INC  
1861 VANDERHORN DR  
MEMPHIS TN 38134

**Ship To:**
El Paso Police Department  
Financial Services  
911 N Raynor  
El Paso TX 79903

**Bill To:**
El Paso Police Department  
Financial Services  
911 N Raynor  
El Paso TX 79903

### Order Information

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<tr>
<th>Line-Sch Item/Description</th>
<th>Quantity</th>
<th>UOM</th>
<th>PO Price</th>
<th>Due Date</th>
<th>Extended Amt</th>
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</thead>
<tbody>
<tr>
<td>SkyCop Pan &amp; Tilt System with Auto Vu LPR SkyCop Surveillance System, Color Camera, Flir Thermal Camera Item #SC-PTLPRSSCAMTC-01</td>
<td>1.00</td>
<td>EA</td>
<td>28,120.00</td>
<td>07/19/2010</td>
<td>28,120.00</td>
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<tr>
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<td>1.00</td>
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<td>1,440.00</td>
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<td>1,760.00</td>
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<td>1,760.00</td>
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**Total PO Amount:** 31,320.00

**TAX EXEMPT:** 74-6000749

### Additional Information

FOR BILLING/DELIVERY INFORMATION, PLEASE CONTACT DID/ATFF DEPT. POC: SGT. ROBERT GOMEZ 298-9600

AUTHORIZED PERSONNEL TO PLACE ORDERS: DID/ATFF DEPT. POC: SGT. ROBERT GOMEZ 298-9600.

QUOTE BY ESI

APPROVED BY CITY COUNCIL 07/13/10 - REFERENCE NO. 2010-253

CITY OF EL PASO AGENCY # M0710  GSA CONTRACT: GS-07F-0185U, SCHEDULE 84, SIN 426-4S

EXPIRATION: 01/31/13

FOR INFORMATION REGARDING THIS PURCHASE ORDER, PLEASE CONTACT DENIESE BAISLEY 915-541-4263 OR E-MAIL BAISLEYDX@ELPASOTEXAS.GOV

TAX EXEMPT: 74-6000749

---

**NOTE:** By issuing this Purchase Order, the City neither waives nor renounces any or all claims and/or rights that it may have including but not limited to the claims and rights the City may have arising out of or related to any breach of this or any other contract the City may have with this vendor.
May 20, 2010

Proposal To:

El Paso Police Department
911 N Raynor
El Paso, TX 79903

Attn: Robert Gomez

Subject: Proposal for SkyCop License Plate System and SkyCop Mobile Surveillance Trailer. All pricing is per our GSA Contract GS-07F-0185U

Scope of Work:

ESI will provide and install if requested a SkyCop License Plate Recognition System with optional equipment as listed below. The system will include all hardware and software for a complete and functional system.

GSA Pricing:

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<td>SC-PTLPRSSCAMTC-01</td>
<td>SkyCop Pan &amp; Tilt System with AutoVu LPR</td>
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<tr>
<td></td>
<td></td>
<td>SkyCop Surveillance System, Color Camera, Flir Thermal Camera</td>
<td></td>
<td></td>
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<td>On-Site Travel Expenses</td>
<td>$1,760.00</td>
<td>$1,760.00</td>
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</tbody>
</table>

Total GSA Price $31,320.00

Note: If you have any questions please do not hesitate to contact me on my cell phone (901) 412-4043.
This system includes a one-year warranty on ESI supplied equipment upon completion of installation.

Any alteration or deviation from above specifications involving extra cost will be executed only upon written orders and will become an extra charge over and above this estimate. All agreements herein are contingent upon strikes, accidents, or delay beyond our control.

Special Conditions:

NOTE: This proposal may be withdrawn by us if not accepted within 90 days.

ACCEPTANCE OF PROPOSAL

ACCEPTED BY: __________________________ PROPOSED BY: __________________________
SIGNATURE: __________________________ SIGNATURE: __________________________
TITLE: __________________________ TITLE: __________________________
DATE: __________________________ DATE: May 20, 2010
P.O. # __________________________
The El Paso Police Department recommends utilizing the Border Security Grant (Grant# G211135, Department 21150002, Account 508010, Fund 05374, Class 21000) GSA Contract GS-07F-0185U to issue a $448,320.00 purchase order to ESI Companies, Inc. for the Purchase of 6 SC-PTLPRSSCAMTC001, 6 SC-INSTALLATION-COM, 2 SC-INSTALLATION-WTE, and 6 SC-MTBG-2CLRPRAD complete Mobile SkyCop Systems. $31,320.00 will come out of grant ABTPA (21150002-503302-05948-21000-G211002)

1. Is there an urgent need for the product/service? In other words, is time of the essence?
Yes, the El Paso Police Department continues to experience high volumes of motor vehicle thefts which directly impact the quality of life for the citizens of El Paso.

2. Does the purchase through the Program promote the standardization of equipment?
Yes, the El Paso Police Department currently has five of these same systems. The infrastructure is already in place and it would only be an expansion of the program.

3. Does the purchase through the Program support local business? If not, is there a comparable product/service available locally?
No, there is no locally owned business that has a comparative product.

4. Do the available vendors have prior work experience and/or familiarity with the City?
Yes, ESI has previously worked with the City installing Five Mobile SkyCop Units and Two Trailers Systems Last year in October 2009.

5. Is the pricing reasonable as compared to other similar products/work performed for the City of El Paso in the past or as quoted from other companies?
Yes, price reasonableness has been established because the General Services Commission used a competitive bidding process in the awarding of the contract.

Under the Local Preparedness Acquisitions Act, Signed June 26, 2008, authorizes State and Local government to purchase from GSA alarm and signal systems, facilities management systems, firefighter and rescue equipment, law enforcement and security equipment, marine craft and related equipment special purpose clothing and related services.
CITY OF EL PASO, TEXAS
AGENDA ITEM
DEPARTMENT HEAD’S SUMMARY FORM

DEPARTMENT:

AGENDA DATE:

CONTACT PERSON NAME AND PHONE: Carmen Arrieta-Candelaria, Chief Financial Officer (915) 541-4293
A/C Eric Shelton (915) 564-7309

DISTRICT(S) AFFECTED:

SUBJECT:
El Paso Police Department request approval of a purchase order to be issue to ESI Companies, Inc., under GSA contract GS-07F-0185U for the purchase of six (6) SkyCop License Plate Reader Vehicle Mounted and Six (6) SkyCop LPR Trailers for a total amount of $479,640.00

BACKGROUND / DISCUSSION:
The El Paso Police Department is requesting approval for the delivery, installation, training and service of the above listed equipment through ESI Companies, Inc. The system will read license plates and compare them to multiple databases. License Plate Readers help the EPPD detect stolen vehicles involved in criminal activities; such as, kidnappings, homicides, auto thefts, as well as to discover vehicles with outstanding parking citations.

PRIOR COUNCIL ACTION:
Yes, previously the El Paso Police requested and obtained City Council approval on June 23, 2009 to purchase from ESI Companies, Inc., a contractor under General Services Administration (GSA) Contract No. G2-07F-08157 SIN 426-4S.

AMOUNT AND SOURCE OF FUNDING:
This purchase will be funded with grants from the Criminal Justice Department: Operation Border Security with the following accounts: 21150002-503302-05948-21000-G211135 for $483,320.00 only and $31,320.00 will be funded out of the ABTPA FY10 with the following accounts: 21150002-503302-05948-21000-G211002

BOARD / COMMISSION ACTION:
Enter appropriate comments or N/A

------------------------------------------------------------

**********************************REQUIRED AUTHORIZATION**********************************

DEPARTMENT HEAD: [Signature]

(If Department Head: Summary Form is initiated by Purchasing, client department should sign also)

Information copy to appropriate Deputy City Manager

- 10091 -
<table>
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Subtotal: 31,320.00
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**Received By:**

**Date:**

**Job Name:** El Paso

**Job No.:** 8599146

**Cust. P.O. No.:**

**Date:**

**TOTAL**

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<th>Date:</th>
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**Notes:**

Attn: Gomez, Robert

09-30-10 11:26 RCVA

-10093-
Check Date: 10/4/2010

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Vendor Number 021111077 ESI COMPANIES INC

Check Number: 00759973

Discounts Taken: 0.00
Total Paid Amount: $31,320.00

Mailed 10/13/10

- 10094 -
## Activity Summary

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**Receipt**

- Qty Rcvd: 1.0000
- Qty Acptd: 1.0000

**Invoice**

- Qty Invcd: 1.00
- Amt Invcd: 28120.000

**Matched**

- Qty Mtcld: 1.0000
- Amt Mtcld: 28120.000

**Open**

- Open Qty: 0.0000
- Open Amt: 0.00
WEDNESDAY 8a - 11a

GRANT / PROJECT NAME: Border Security Grant

Dept: 21150002 PO: 2010003839 7/19/10
Account: 508010 Fund: 05374
Class: 21000 RQ: 2010002719 7/15/10

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<td>28,210.00</td>
<td>141,500.00</td>
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<tr>
<td>System, color Camera, Flir Thermal Camera</td>
<td>5 ea</td>
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<tr>
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<tr>
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<td>297,000.00</td>
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<tr>
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<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>System include all hardware &amp; software for a complete &amp; functional system. One-year warranty on ESI supplied equipment upon completion of installation</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Does Vendor Accept PO's?</td>
<td>YES or NO</td>
<td>$</td>
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<td>Shipping and Handling / Express Fee:</td>
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Quote #1
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CASA Contract # 67F-08154
P.O. 2010003839
RC: 2011017899
GP#: 670457

Quoted by / Date:
Phone / Fax:

Quote #2
Vendor / Address / Phone:

Quoted by / Date:
Phone / Fax:

Quote #3
Vendor / Address / Phone:

Quoted by / Date:
Phone / Fax:

Signature:
Date:

Section Approval - Print Name:
Date:
CITY OF EL PASO
2 CIVIC CENTER PLAZA
FINANCIAL SERVICES
EL PASO TX 79901

Vendor:
Fax: 901/373-7790
ESI COMPANIES INC
1861 VANDERHORN DR
MEMPHIS TN 38134

Purchase Order

<table>
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<tr>
<th>Line#</th>
<th>Description</th>
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<th>UOM</th>
<th>PO Price</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>1</td>
<td>SkyCop Pan &amp; Tilt System with Auto Vu LPR SkyCop Surveillance System, Color Camera, Flir Thermal Camera Item #SC-PTLPRSSCAMTC-01</td>
<td>5.00</td>
<td>EA</td>
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<td>07/19/2010</td>
<td>141,050.00</td>
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<td>7,200.00</td>
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<td>3</td>
<td>On-Site Travel Expenses Item #SC-INSTALLATION-WTE</td>
<td>2.00</td>
<td>EA</td>
<td>1,760.00</td>
<td>07/19/2010</td>
<td>3,520.00</td>
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<tr>
<td>4</td>
<td>SkyCop &quot;Cadet&quot; Trailer/ Battery &amp; Generator Power/18FT Hydraulic Tower/SC-2PTZ Camera/ H.264 2-Channel Digital/Recorder/Mesh</td>
<td>6.00</td>
<td>EA</td>
<td>49,500.00</td>
<td>07/19/2010</td>
<td>297,000.00</td>
</tr>
</tbody>
</table>

FOR BILLING/DELIVERY INFORMATION, PLEASE CONTACT DID/ATTF DEPT. POC: SGT. ROBERT GOMEZ 298-9600
AUTHORIZED PERSONNEL TO PLACE ORDERS: DID/ATTF DEPT. POC: SGT. ROBERT GOMEZ 298-9600.

QUOTE BY ESI
APPROVED BY CITY COUNCIL 07/13/10 - REFERENCE NO. 2010-253
CITY OF EL PASO AGENCY # M0710 GSA CONTRACT: GS-07F-0185U, SCHEDULE 84, SIN 426-4S
EXPIRATION: 01/31/13
FOR INFORMATION REGARDING THIS PURCHASE ORDER, PLEASE CONTACT DENIESE BAISLEY 915-541-4263 OR E-MAIL BAISLEYDX@ELPASOTEXAS.GOV
TAX EXEMPT: 74-6000749

NOTE: Unless Reference is made to a specific Contract, this Purchase order is subject to the City of El Paso's standard purchase order terms and conditions. The Terms and Conditions may be viewed on our web site at: www.elpasotexas.gov/bids. Please reference Purchase Order 2010003839 on all Invoices, Packing Slips and Correspondence.

Authorized Signature

Purchasing Manager

Total PO Amount 448,770.00

- 10097 -
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DATE: 1/2/2010
May 20, 2010

Proposal To:

El Paso Police Department
911 N Raynor
El Paso, TX 79903

Attn: Robert Gomez

Subject: Proposal for SkyCop License Plate System and SkyCop Mobile Surveillance Trailer. All pricing is per our GSA Contract GS-07F-0185U

Scope of Work:

ESI will provide and install if requested a SkyCop License Plate Recognition System with optional equipment as listed below. The system will include all hardware and software for a complete and functional system. ESI will provide a SkyCop Mobile Surveillance Trailer as specified below.

GSA Pricing:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Part Number</th>
<th>Description</th>
<th>GSA Price Each</th>
<th>Total GSA Price</th>
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<tbody>
<tr>
<td>5</td>
<td>SC-PTLPRSSCAMTC-01</td>
<td>SkyCop Pan &amp; Tilt System with AutoVu LPR</td>
<td>$ 28,210.00</td>
<td>$ 141,050.00</td>
</tr>
<tr>
<td>5</td>
<td>SC-INSTALLATION-COM</td>
<td>Complete Installation of Pan &amp; Tilt with Cameras / LPR</td>
<td>$ 1,440.00</td>
<td>$ 7,200.00</td>
</tr>
<tr>
<td>2</td>
<td>SC-INSTALLATION-WTE</td>
<td>On-Site Travel Expenses</td>
<td>$ 1,760.00</td>
<td>$ 3,520.00</td>
</tr>
<tr>
<td>6</td>
<td>SC-MTBG-2CLRPRAD</td>
<td>SkyCop &quot;Cadet&quot; Trailer / Battery &amp; Generator Power / 18 FT Hydraulic Towar / SC-2PTZ Camera / H.264 2-Channel Digital Recorder / Mesh 802.11 / GSM Cellular Broadband Router / Radar / LPR</td>
<td>$ 49,506.00</td>
<td>$297,000.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total GSA Price</td>
<td>$448,770.00</td>
<td></td>
</tr>
</tbody>
</table>

Note: If you have any questions please do not hesitate to contact me on my cell phone (901) 412-4043.
This system includes a one-year warranty on ESI supplied equipment upon completion of installation.

Any alteration or deviation from above specifications involving extra cost will be executed only upon written orders and will become an extra charge over and above this estimate. All agreements herein are contingent upon strikes, accidents, or delay beyond our control.

Special Conditions:

NOTE: This proposal may be withdrawn by us if not accepted within 90 days.

ACCEPTANCE OF PROPOSAL

ACCEPTED BY: ______________________ PROPOSED BY: John F. O'conceen
SIGNATURE: ______________________ SIGNATURE:
TITLE: ______________________ TITLE: Vice President Sales
DATE: ______________________ DATE: May 20, 2010
P.O. #: ______________________
The El Paso Police Department recommends utilizing the Border Security Grant (Grant# G211135, Department 21150002, Account 508010, Fund 05374, Class 21000) GSA Contract GS-07F-0185U to issue a $448,320.00 purchase order to ESI Companies, Inc. for the Purchase of 6 SC-PTLPRESSCAMTC001, 6 SC-INSTALLATION-COM, 2 SC-INSTALLATION-WTE, and 6 SC-MTBG-2 CLRPRAD complete Mobile SkyCop Systems. $31,320.00 will come out of grant ABTPA (21150002-503302-05948-21000-G211002)

1. Is there an urgent need for the product/service? In other words, is time of the essence?
Yes, the El Paso Police Department continues to experience high volumes of motor vehicle thefts which directly impact the quality of life for the citizens of El Paso.

2. Does the purchase through the Program promote the standardization of equipment?
Yes, the El Paso Police Department currently has five of these same systems. The infrastructure is already in place and it would only be an expansion of the program.

3. Does the purchase through the Program support local business? If not, is there a comparable product/service available locally?
No, there is no locally owned business that has a comparable product.

4. Do the available vendors have prior work experience and/or familiarity with the City?
Yes, ESI has previously worked with the City installing five mobile SkyCop units and two trailers systems last year in October 2009.

5. Is the pricing reasonable as compared to other similar products/services performed for the City of El Paso in the past or as quoted from other companies?
Yes, price reasonableness has been established because the General Services Commission used a competitive bidding process in the awarding of the contract.

Under the Local Preparedness Acquisitions Act, signed June 26, 2008, authorizes State and Local government to purchase from GSA alarm and signal systems, facilities management systems, firefighter and rescue equipment, law enforcement and security equipment, marine craft and related equipment special purpose clothing and related services.
CITY OF EL PASO, TEXAS
AGENDA ITEM
DEPARTMENT HEAD'S SUMMARY FORM

DEPARTMENT:

AGENDA DATE:

CONTACT PERSON NAME AND PHONE: Carmen Arrieta-Candelaria, Chief Financial Officer (915) 541-4293
A/C Eric Shelton (915) 564-7309

DISTRICT(S) AFFECTED:

SUBJECT:

El Paso Police Department request approval of a purchase order to be issued to ESI Companies, Inc., under GSA contract GS-07F-0185U for the purchase of six (6) SkyCop License Plate Reader Vehicle Mounted and Six (6) SkyCop LPR Trailers for a total amount of $479,640.00

BACKGROUND / DISCUSSION:

The El Paso Police Department is requesting approval for the delivery, installation, training and service of the above listed equipment through ESI Companies, Inc. The system will read license plates and compare them to multiple databases. License Plate Readers help the EPPD detect stolen vehicles involved in criminal activities; such as, kidnappings, homicides, auto thefts, as well as to discover vehicles with outstanding parking citations.

PRIOR COUNCIL ACTION:

Yes, previously the El Paso Police requested and obtained City Council approval on June 23, 2009 to purchase from ESI Companies, Inc., a contractor under General Services Administration (GSA) Contract No. G2-07F-08157 SIN 426-4S.

AMOUNT AND SOURCE OF FUNDING:

This purchase will be funded with grants from the Criminal Justice Department: Operation Border Security with the following accounts: 21150002-508010-05374-21000-G2111135 for $448,320.00 only and $31,320.00 will be funded out of the ABTPA FY10 with the following accounts: 21150002-503302-05948-21000-G211002

BOARD / COMMISSION ACTION:
Enter appropriate comments or N/A

*******************************************************************

REQUIRED AUTHORIZATION*******************************************************************

DEPARTMENT HEAD:

(If Department Head Summary Form is initiated by Purchasing, client department should sign also)

Information copy to appropriate Deputy City Manager
**Invoice 38341**

**Bill to:**
ELPASO POLICE DEPT  
ATTN: ACCOUNTS PAYABLE  
911 N RAYNOR  
ELPASO, TX 79903

**Job:** 155046  
ELPASO POLICE DEPT  
FINANCIAL SERVICES  
911 N RAYNOR  
ELPASO, TX 79903

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<th>Customer P.O. #</th>
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<tr>
<td>Payment Terms</td>
<td>NET 30 DAYS</td>
<td>Customer Code:</td>
<td>ELPASO</td>
<td>Salesperson: JOHN OSTEEN</td>
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**Remarks:** PARTIAL BILLING OF PO 2010003839

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<th>Quantity</th>
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<td>EA</td>
<td>49,500.00</td>
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**Total:** 99,000.00

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<td>00785150</td>
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<td>DATE:</td>
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**PARTIAL**

Page: 1

- 10103 -
Invoice 38341

Bill to:
ELPASO POLICE DEPT
ATTN: ACCOUNTS PAYABLE
911 N RAYNOR
ELPASO, TX 79903

Job: 850046
EL PASO POLICE DEPT
FINANCIAL SERVICES
911 N RAYNOR
EL PASO, TX 79903

Invoice #: 38341  Date: 10/31/10  Customer P.O. #: 201003839  7/19/10
Payment Terms: NET 30 DAYS  Salesperson: JOHN OSTEEN
Customer Code: EL PASO
Remarks: PARTIAL BILLING OF PO 201003839

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<td>EA</td>
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Subtotal: 99,000.00

Total: 99,000.00
DATE: 12-2-10
TO: Sandra
FAX NUMBER: 915-564-7350
FROM: Vanessa X1043
RE: Invoice # 38341
TOTAL PAGES: 2
### INVOICE

**Number:** 38423  
**Date:** 11/30/10

---

**ELPASO POLICE DEPT**  
**ATTN: ACCOUNTS PAYABLE**  
911 N RAYNOR  
ELPASO, TX 79903  

---

**ELPASO POLICE DEPT**  
**FINANCIAL SERVICES**  
911 N RAYNOR  
ELPASO, TX 79903  

---

**P R O D U C T D E S C R I P T I O N**  
2,000 SKYCOPT "CADET" TRAILER  
EA  

**Q U A N T I T Y:** 49,500.00  
**T O T A L:** 99,000.00

---

**Subtotal:** 99,000.00

---

**Total:** 99,000.00

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**P.O.:** 2010003839  
**RC:** 2011C14414  
**GP#:** 1047191  
**VC#:** 11022677  
**CK#:** 00360999  
**DATE:** 11/11/11

---

**P. Moreno**  
**Date:** 1/6/2011

---

**ESI COMPANIES, INC.**  
1861 VANDERHORN DRIVE  
MEMPHIS, TN 38134
**Pay Exacly: NINETY-NINE THOUSAND AND 00 / 100 DOLLAR***

**To The Order Of:**
ESI COMPANIES INC
1861 VANDERHORN DR
MEMPHIS, TN 38134

---

**Check Details:**

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*PO 2010003839 EPPD INV 38423 for 2 sky cop cadet trailers*

---

**Vendor Information:**

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<tbody>
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**INVOICE**

**Number:** 38650  
**Date:** 01/20/11

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**Bill to:**  
ELPASO POLICE DEPT  
ATTN: ACCOUNTS PAYABLE  
911 N RAYNOR  
ELPASO, TX 79903

---

**Job:** 650040  
ELPASO POLICE DEPT  
FINANCIAL SERVICES  
911 N RAYNOR  
ELPASO, TX 79903

---

**Customer Code** | **Purchase Order No.** | **Salesperson** | **Terms**  
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ELPASO | 2010003639 | JOHN OSTEEN | NET 30 DAYS

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**Remarks:** REMAINDER BILLING OF PO# 2010003639

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<td>INSTALLATION PAN &amp; TILT</td>
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P.O. 2010003639  
RC: 2011017899  
GP#: 670457  
VC#: 11037959  
CK #: 002676785  
DATE: 2/19/11

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**Subtotal:** 250,770.00  
**Total:** 250,770.00

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ESI COMPANIES, INC.  
1861 VANDERHORN DRIVE  
MEMPHIS, TN 38134

---

- 10108 -
DATE: 1/20/11
TO: Sandra, El Paso Police Dept.
FAX NUMBER: 915-564-7350
FROM: Vanessa Carson x1093
RE: Invoice # 38650 - Final Billing/ $8500.00
TOTAL PAGES: 2

When this check is cut, please Fed Ex to us using our Fed Ex 1104-3496-0.

Thanks,
Vanessa
**Payee:** ESi COMPANIES INC  
1861 VANDERHORN DR  
MEMPHIS, TN 38134

---

**Check Date:** 2/16/2011  
**PD:**  
**Check No.:** 00768785

**Vendor Number:** 621110677  
**Name:** ESi COMPANIES INC  
**Total Discounts:** $0.00  
**TIN:**

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**Mailed 2/10/11**
### Activity Summary

**Unit:** COFEP  **PO:** 2010003839  **Vendor:** ESI COMPANIES INC  **PO Status:** Dispatched

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**Receipt**

- **Qty Rcvd:** 6.0000
- **Qty Acptd:** 6.0000

**Invoice**

- **Qty Invcd:** 6.00
- **Amt Invcd:** 297000.000

**Matched**

- **Qty Mchd:** 6.0000
- **Amt Mchd:** 297000.000

**Open Qty:** 0.0000  **Open Amt:** 0.0000

---

2/16/2011
Security Center 4

AutoVu Basic Setup
May 12th 2010

Tom Badger
Technical Trainer
tbadger@genetec.com

GENETEC
Innovative Solutions
• Basic system settings
  ▪ Setting up simplified user accounts
  ▪ Moving auto-discovered Sharps & Patroller into the Public Partition
  ▪ Hotlist, Permit and Overtime basics

• Using Security Desk (The new Back Office):
  ▪ Creating Monitoring & Tracking tasks for fixed sharps & patrollers
  ▪ Searches, Reports & Exporting data

• What not be covered?
  ▪ Installation, system setup, in-depth configuration
AutoVu Mobile LPR Systems

Security Center

LAN

Security Desk

WiFi
(10 MB file chunks)

USB Key

Patroller application
Security Center Architecture

- A license determines system options & capacity
- End-to-end IP connectivity for:
  - Access control units
  - Workstations
  - Servers
  - External Systems (Omnicast, AD, Patrollers, Sharps, other SC systems)
- Users interact & configure the system using client applications
- Server components are installed as Windows services
- Settings, Alarms, and logs are stored in MS SQL 2008 databases
- Depending on the system size, services can be installed:
  - on a single PC
  - distributed across several servers
  - Federated together
Applications: Config Tool

- Client application used to configure nearly all aspects of system
- Enroll access control hardware
- Enroll Sharps & Patrollers
- Create, configure & link entities
- Add external system connections (Omnicast, AD, SC, LPR Manager)
- Define logical security with Partitions & Users
Applications: Security Desk

- Unified client interface for monitoring video, access control, and LPR
- Task-oriented workflow
- Widget-based dashboard
- Entity tracking & reporting
Applications: Server Admin

- Stand-alone application accessible on servers
- Apply a license (Directory only)
- Configure locally installed services
- Manage & backup databases
- Network card bindings
- Mail server settings
- Telnet debugging console options
- Server Modules: Directory

- Manages entire system
- Maintains configuration DB
- Accepts client connections
- Responsible for user authentication
- Manages alarms & other system tasks
Server Modules: Integration Service

- Similar to Omnicast Federation
- Responsible for hosting External Systems
  - Omnicast
  - Active Directory
  - Security Center Systems
  - LPR Managers
Locate Key Settings

Security Center (Config Tool)
- IPR Manager
- Fixed Sharp
- Patrol Unit
- Patrol Unit: User Group
- Hotlist
- Parking: Permits
- Overtime Rules, Parking
- Lot Polygons
- MLPI (Inventory)

AutoVu Patroller
- Sharp Name or IP
- Patrol Unit Name
- Local DB Settings
- Authentication Model
- Mapping
- Live & Offloading
- Parking Options
- GPS/ODOM (Part of IoT Services)

Sharp (Settings Viewer)
- License File
- Set Hardware Model
- Regional Context
- Region of Interest (Fixed)
- Extensions
- Security Center
- Mobile
- FTP
Users are profiles allowed to login to client applications
Partitions determine *which* entities are viewable to users
Privileges determine *how* users can interact with entities
Privilege templates can set the privileges of a single user
User groups can define the access of a large number of users
A user can also inherit privileges from multiple groups