

INVOICE

TRANSCORE

HCTRA

10-SEP-3 PM 12:07

Scouting Address

Transcore  
13110  
Monte, CA 91103-3901

Invoice Number 10-03125

Invoice Date: 08/27/2010

Bill To:  
HARRIS COUNTY TOLL RD AUTHORITY  
ACCOUNTS PAYABLE  
330 MEADOWFERM, SUITE 700  
HOUSTON, TX. 77067

Customer Number H0013  
Customer PO Number 12149763  
Project Number: 1100007  
Project Name Maint VES Project 1300153  
Terms: NET 30  
Date Due: 09/28/2010

Billing Period From: 08/01/2010 To: 08/31/2010  
Billing Currency: USD

Current Amount
58,333.33
58,333.33
<u>58,333.33</u>

5 VES Maint Techs  
BILL SCHEDULE ITEMS

Invoice Total

BARBARA SIMON  
HARRIS COUNTY TOLL RD AUTHORITY  
HOUSTON, TEXAS  
2010 SEP 15 AM 9:06

*Chlor*  
9/10/10

VES Maintenance for 08/01/10 to 08/31/10.

(m)

INVOICE

TRANSCORE®

HCTRA

10 SEP -3 PM 12:07

Remittance Address

Transcore  
PO Box 933493  
Atlanta, GA 31193-3493

voice Number: 10-03125

Invoice Date: 08/27/2010

Bill To:  
HARRIS COUNTY TOLL RD AUTHORITY  
ACCOUNTS PAYABLE  
330 MEADOWFERN, SUITE 200  
HOUSTON, TX 77067

Customer Number: H0013  
Customer PO Number: P149763  
Project Number: 1100007  
Project Name: Maint VES Project 1300153  
Terms: NET 30  
Invoice Date: 09/28/2010

Billing Period From: 08/01/2010 Billing Currency: USD  
To: 08/31/2010

Services: VES Maint Techs  
ALL SCHEDULE ITEMS

Current Amount
58,333.33
58,333.33

Invoice Total

58,333.33

*Handwritten signature*  
9/10/10

VES Maintenance for 08/01/10 to 08/31/10.

*W*

## HCTRA Monthly VES Maintenance Report - AUG10

Original Date	Location	Lane	Service Performed	Original Equipment Install Date
Sunday, August 01, 2010	ALL	ALL	Reviewed ATTLAS image report	
Monday, August 02, 2010	ALL	ALL	Completed morning image checks of all lanes	
Monday, August 02, 2010	ALL	ALL	Reviewed ATTLAS image report	
Monday, August 02, 2010	ALL	ALL	Continued review of bad OCR data	
Monday, August 02, 2010	Hardy North	PIC	Mapped drive to OCR was disconnected, remapped drive and 1200+ transactions are processing.	
Monday, August 02, 2010	Hardy North	12	During morning image checks this lane is not getting any triggers, confirmed with LCA that this lane is showing comm failure. Went to site, this lane was working once at the location. Confirmed with LCA that this lane was working. Will monitor for further issues.	
Monday, August 02, 2010	Moore West	3	The shoulder lane camera was video out during morning image checks, restarted VES software and confirmed proper operation. Will head to site and change video digitizer card, confirmed proper operation. Will continue to monitor.	
Monday, August 02, 2010	Test Track	ALL	Went to complete VES computer installation and move systems down to the bottom of the rack as requested by HCTRA.	
Monday, August 02, 2010	ALL	ALL	Completed afternoon image checks of all lanes	
Tuesday, August 03, 2010	ALL	ALL	Completed morning image checks of all lanes	
Tuesday, August 03, 2010	ALL	ALL	Reviewed ATTLAS image report	
Tuesday, August 03, 2010	ALL	ALL	Continued review of bad OCR data	
Tuesday, August 03, 2010	WPT Gessner Ent	ALL	PM on ELPAC and confirmed latest version of VES software is installed	
Tuesday, August 03, 2010	WPT Gessner Exit	ALL	PM on ELPAC and confirmed latest version of VES software is installed	
Tuesday, August 03, 2010	ALL	ALL	Completed afternoon image checks of all lanes	
Wednesday, August 04, 2010	ALL	ALL	Completed morning image checks of all lanes	
Wednesday, August 04, 2010	ALL	ALL	Reviewed ATTLAS image report	
Wednesday, August 04, 2010	ALL	ALL	Continued review of bad OCR data	
Wednesday, August 04, 2010	Clay Exit	ALL	PM on ELPAC and confirmed latest version of VES software is installed. Had issue with comm while on site, troubleshoot and found that the driver for the comm card was at fault. Updated driver for comm card and confirmed proper operation.	
Wednesday, August 04, 2010	ALL	ALL	Completed afternoon image checks of all lanes	
Thursday, August 05, 2010	ALL	ALL	Completed morning image checks of all lanes	
Thursday, August 05, 2010	ALL	ALL	Reviewed ATTLAS image report	
Thursday, August 05, 2010	ALL	ALL	Continued review of bad OCR data	
Thursday, August 05, 2010	Sam Southwest	10,11	Received NAGIOS alert that this ELPAC was down. Unable to connect remotely. Was in the area and headed to location. After approx. 15 minutes this ELPAC alerted back up. Verified proper operation while at location.	
Thursday, August 05, 2010	WPT Boone West	ALL	Received email from NRT system that no triggers were being received from ELPAC. Verified that ELPAC not receiving triggers. Contacted LCA and they were unable connect to the LC due to an IP change that was made. LCA asked us to restart the lane controllers for them which we did and they were able to connect remotely and correct the trigger issue. Verified proper operation.	
Thursday, August 05, 2010	ALL	ALL	Completed afternoon image checks of all lanes	
Friday, August 06, 2010	ALL	ALL	Completed morning image checks of all lanes	
Friday, August 06, 2010	ALL	ALL	Reviewed ATTLAS image report	
Friday, August 06, 2010	ALL	ALL	Continued review of bad OCR data	
Friday, August 06, 2010	Alameda Exit	ALL	PM on ELPAC and confirmed latest version of VES software is installed	
Friday, August 06, 2010	Fuqua Exit	ALL	PM on ELPAC and confirmed latest version of VES software is installed	
Saturday, August 07, 2010	ALL	ALL	Reviewed ATTLAS image report	
Sunday, August 08, 2010	ALL	ALL	Reviewed ATTLAS image report	
Monday, August 09, 2010	ALL	ALL	Reviewed ATTLAS image report	
Monday, August 09, 2010	ALL	ALL	Completed morning image checks of all lanes	
Monday, August 09, 2010	ALL	ALL	Continued review of bad OCR data	
Monday, August 09, 2010	Hilcroft Ent	NRT	Unable to connect remotely, went to site and rebooted system and confirmed proper operation	
Monday, August 09, 2010	Telephone Rd Exit	71	Channel 3 is showing video out on the ELPAC, replaced the digitizer card and found same issue. Replaced the ELPAC and confirmed proper operation.	
Monday, August 09, 2010	Test Track	ALL	Installed cat5 comm cables to lane controllers, installed network cables to lane controllers, elpacs, pic, and ups.	
Monday, August 09, 2010	ALL	ALL	Completed afternoon image checks of all lanes	
Tuesday, August 10, 2010	ALL	ALL	Reviewed ATTLAS image report	

Tuesday, August 10, 2010	ALL	ALL	Completed morning image checks of all lanes
Tuesday, August 10, 2010	ALL	ALL	Continued review of bad OCR data
Tuesday, August 10, 2010	Test Track	ALL	Installed rj45-db9 adapters on ELPACs and completed comm wiring to lane controllers
Tuesday, August 10, 2010	WPT Royalton Ent	ALL	Video channels 3/4 having issues, replaced video digitizer card and verified proper operation
Tuesday, August 10, 2010	WPT Fondren Mainline	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	Beltway 8 West	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	Beltway 8 Exchange	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	Beltway 8 East	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Royalton Ent	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Rice Exit	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Post Oak Mainline	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Hwy 6	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Hillcroft Mainline	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Gessner Exit	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Gessner Ent	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Fondren Exit	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Fondren Ent	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Boone West	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Boone East	ALL	Reconfigured all systems at this location with new IP addresses issued by HCTRA and confirmed proper operation
Tuesday, August 10, 2010	WPT Boone West	ALL	ELPAC locked up during afternoon image checks, went to site and rebooted ELPAC and confirmed proper operation.
Tuesday, August 10, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Wednesday, August 11, 2010	ALL	ALL	Reviewed ATTLAS image report
Wednesday, August 11, 2010	ALL	ALL	Completed morning image checks of all lanes
Wednesday, August 11, 2010	ALL	ALL	Continued review of bad OCR data
Wednesday, August 11, 2010	I-10 TP3	ALL	Completed PM of all VES computers and confirmed latest version of VES software is installed
Wednesday, August 11, 2010	Test Track	ALL	Complete wiring for comm's and troubleshoot comm issues for both AVI lanes
Wednesday, August 11, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Thursday, August 12, 2010	ALL	ALL	Reviewed ATTLAS image report
Thursday, August 12, 2010	ALL	ALL	Completed morning image checks of all lanes
Thursday, August 12, 2010	ALL	ALL	Continued review of bad OCR data
Thursday, August 12, 2010	WPT Boone West	ALL	ELPAC locked up during morning image checks, went to site and rebooted ELPAC and confirmed proper operation.
Thursday, August 12, 2010	WPT Fondren Exit	PIC	Unable to connect remotely, went to site and found system would not power on. Swapped hard drives into new PIC and confirmed proper operation.
Thursday, August 12, 2010	Hardy South	5.6	All cameras showing video out during morning image checks. Went to site and reseated all video connections and rebooted ELPAC, confirmed proper operation.
Thursday, August 12, 2010	Test Track	ALL	Continue troubleshooting comm/trigger issues. Confirmed configuration of comm board in the ELPAC.
Thursday, August 12, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Friday, August 13, 2010	ALL	ALL	Reviewed ATTLAS image report
Friday, August 13, 2010	ALL	ALL	Completed morning image checks of all lanes
Friday, August 13, 2010	ALL	ALL	Continued review of bad OCR data

Friday, August 13, 2010	Sam South	10,11	ELPAC would not stay powered on, swapped hard drives into replacement system and will continue to troubleshoot the removed ELPAC on the test bench.
Friday, August 13, 2010	Sam East	7,8	Channel 6 is showing video out, reseated all video connectors and restarted VES software. Verified proper operation.
Friday, August 13, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Saturday, August 14, 2010	ALL	ALL	Reviewed ATTLAS image report
Sunday, August 15, 2010	ALL	ALL	Reviewed ATTLAS image report
Monday, August 16, 2010	ALL	ALL	Reviewed ATTLAS image report
Monday, August 16, 2010	ALL	ALL	Completed morning image checks of all lanes
Monday, August 16, 2010	ALL	ALL	Continued review of bad OCR data
Monday, August 16, 2010	Test Track	ALL	Continued to troubleshoot triggering issues, replaced LPAC2 and confirmed proper operation
Monday, August 16, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Tuesday, August 17, 2010	ALL	ALL	Reviewed ATTLAS image report
Tuesday, August 17, 2010	ALL	ALL	Completed morning image checks of all lanes
Tuesday, August 17, 2010	ALL	ALL	Continued review of bad OCR data
Tuesday, August 17, 2010	Sam Central	12	check for possible LED illuminator issue, all appears okay at this time
Tuesday, August 17, 2010	WPT Boone West	ALL	This ELPAC locked up again, replaced system and will bench test removed ELPAC, confirmed proper operation of new unit
Tuesday, August 17, 2010	Test Track	ALL	Further troubleshoot front/rear ves trigger issues and work with LCA to resolve issues
Tuesday, August 17, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Wednesday, August 18, 2010	ALL	ALL	Reviewed ATTLAS image report
Wednesday, August 18, 2010	ALL	ALL	Completed morning image checks of all lanes
Wednesday, August 18, 2010	ALL	ALL	Continued review of bad OCR data
Wednesday, August 18, 2010	Sam Southeast	NRT	Unable to connect remotely to NRT3, went to site and NRT would not power on, replaced and will bench test removed NRT. Confirmed proper operation of new system.
Wednesday, August 18, 2010	Westheimer Exit	ALL	ELPAC having strange software issues, replaced with new ELPAC and will re-image ELPAC removed from this location. Confirmed proper operation of new ELPAC.
Wednesday, August 18, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Thursday, August 19, 2010	ALL	ALL	Reviewed ATTLAS image report
Thursday, August 19, 2010	ALL	ALL	Completed morning image checks of all lanes
Thursday, August 19, 2010	ALL	ALL	Continued review of bad OCR data
Thursday, August 19, 2010	Test Track	ALL	Confirmed proper operation of ELPACs running AVI lanes
Thursday, August 19, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Friday, August 20, 2010	ALL	ALL	Reviewed ATTLAS image report
Friday, August 20, 2010	ALL	ALL	Completed morning image checks of all lanes
Friday, August 20, 2010	ALL	ALL	Continued review of bad OCR data
Friday, August 20, 2010	Sam North	ALL	Redirected mainline lanes to OCR03DP per HCTRA request so the OCR01FP can catch up
Friday, August 20, 2010	WPT Boone West	ALL	Added ELPAC the HCTRA domain and confirmed proper operation
Friday, August 20, 2010	Telephone Rd Exit	ALL	Added ELPAC the HCTRA domain and confirmed proper operation
Friday, August 20, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Saturday, August 21, 2010	ALL	ALL	Reviewed ATTLAS image report
Sunday, August 22, 2010	ALL	ALL	Reviewed ATTLAS image report
Sunday, August 22, 2010	WPT Boone West	ALL	Received NAGIOS alert that this ELPAC was down. Unable to connect remotely. Was in the area and headed to location. Rebooted ELPAC and confirmed proper operation.
Sunday, August 22, 2010	Fairmont Pkwy Exit	ALL	Received NAGIOS alert that this ELPAC was down, ELPAC would not stay powered on. Replaced ELPAC and will bench test ELPAC that was removed. Confirmed proper operation of new system.
Monday, August 23, 2010	ALL	ALL	Reviewed ATTLAS image report
Monday, August 23, 2010	ALL	ALL	Completed morning image checks of all lanes
Monday, August 23, 2010	ALL	ALL	Continued review of bad OCR data
Monday, August 23, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Tuesday, August 24, 2010	ALL	ALL	Reviewed ATTLAS image report
Tuesday, August 24, 2010	ALL	ALL	Completed morning image checks of all lanes
Tuesday, August 24, 2010	ALL	ALL	Continued review of bad OCR data
Tuesday, August 24, 2010	WPT Boone West	ALL	This ELPAC locked up again, replaced power cord to the ELPAC and moved to a different outlet on the power strip. Confirmed proper operation
Tuesday, August 24, 2010	WPT Boone East	NRT	This NRT was locked up, no video no post. Replaced system and moved hard drives from old system. Will bench test removed system. Confirmed proper operation of new system.

Tuesday, August 24, 2010	Sam Central	3,4	Received NAGIOS alert, went to site and ELPAC was locked up, rebooted ELPAC and confirmed proper operation.
Tuesday, August 24, 2010	Bellaire Ent	ALL	Not seeing any triggers, contacted LCA and it was confirmed to be a lane controller issue at this time.
Tuesday, August 24, 2010	South Main Exit	NRT	Unable to connect remotely, found that system has bad NIC, replaced system and will bench test removed system. Confirmed proper operation of new system.
Tuesday, August 24, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Wednesday, August 25, 2010	ALL	ALL	Reviewed ATTLAS image report
Wednesday, August 25, 2010	ALL	ALL	Completed morning image checks of all lanes
Wednesday, August 25, 2010	ALL	ALL	Continued review of bad OCR data
Wednesday, August 25, 2010	Bellaire Ent	ALL	Still not receiving triggers for this location, LCA confirmed again they are working on the lane controllers at this location. Went to site after lane controller issue was resolved and found bad Fiber Convertors used for VES. Installed ELPAC temporarily until fiber convertors can be bench tested and replaced if needed.
Wednesday, August 25, 2010	Westheimer Ent	ALL	During morning image check video for channel 1 and 3 were bad. Replaced video digitizer cards and confirmed proper operation.
Wednesday, August 25, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Thursday, August 26, 2010	ALL	ALL	Reviewed ATTLAS image report
Thursday, August 26, 2010	ALL	ALL	Completed morning image checks of all lanes
Thursday, August 26, 2010	ALL	ALL	Continued review of bad OCR data
Thursday, August 26, 2010	Monroe Exit	ALL	Received NAGIOS alert that this ELPAC was down, went to site and found ELPAC locked up. Rebooted and confirmed proper operation.
Thursday, August 26, 2010	Airport Connector	ALL	Added ELPAC the HCTRA domain and confirmed proper operation
Thursday, August 26, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Friday, August 27, 2010	ALL	ALL	Reviewed ATTLAS image report
Friday, August 27, 2010	ALL	ALL	Completed morning image checks of all lanes
Friday, August 27, 2010	ALL	ALL	Continued review of bad OCR data
Friday, August 27, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Saturday, August 28, 2010	ALL	ALL	Reviewed ATTLAS image report
Sunday, August 29, 2010	ALL	ALL	Reviewed ATTLAS image report
Monday, August 30, 2010	ALL	ALL	Reviewed ATTLAS image report
Monday, August 30, 2010	ALL	ALL	Completed morning image checks of all lanes
Monday, August 30, 2010	ALL	ALL	Continued review of bad OCR data
Monday, August 30, 2010	Sam Central	NRT	Unable to connect remotely to NRT1, NRT2, NRT3. Went to site and rebooted all 3 NRT systems and confirmed proper operation.
Monday, August 30, 2010	Ship Channel Bridge	MB/ACM	Not seeing any triggers, restarted VES software and rebooted system remotely same issue. Went to site and confirmed that all comms were connected and rebooted system and confirmed proper operation.
Monday, August 30, 2010	ALL	ALL	Completed afternoon image checks of all lanes
Tuesday, August 31, 2010	ALL	ALL	Reviewed ATTLAS image report
Tuesday, August 31, 2010	ALL	ALL	Completed morning image checks of all lanes
Tuesday, August 31, 2010	ALL	ALL	Continued review of bad OCR data
Tuesday, August 31, 2010	Westheimer Ent	ALL	Mounted fiber convertors on the entrance and exit sides, made up necessary cables in order to facilitate a quick switch over.
Tuesday, August 31, 2010	Clay Ent	ALL	Received NAGIOS alert that all VES systems were down. Went to site and found that the UPS is failing, powered it back on and notified HCTRA to replace UPS.
Tuesday, August 31, 2010	Ship Channel Bridge	5,6	No triggers being received from lane controller, restarted VES software with no change. Went to site and found the comm cable had pulled out of the back of the ELPAC. Reseated cable and zip tied so this can't happen again.
Tuesday, August 31, 2010	ALL	ALL	Completed afternoon image checks of all lanes

RECEIVING FORM

TRA AP AUG12'10AM9.2

PLEASE SPILT PAY THIS INVOICE ON TWO DIFFERENT PURCHASE ORDERS

Date: 08/04/10

Section/Person Responsible for PO: Facilities-Maintenance/Felita Fischer

P149763--\$278,384.00 &

Purchase Order #: P156924--\$22,197.67

Approved CF

Vendor Name: TransCore

Date 8-23-10

Invoice #: 19330

Batch AK 817 CK1

Invoice Amount: \$300,581.67

CC Date

Description:

VES Controllers, Plaza Image Computers, Hardware, Software Licenses, Mainline Lane Installation (Labor & Materials) and Lane Closures from May 13, 2010 through July 19, 2010


P149763  
 ORG KEY: \$188,282.04  
 P156924  
 P.O. BALANCE: \$7,733,811.01  
 OBJECT CODE: 623000-LINE ITEM #3 ON PO # P149763--\$278,384.00  
 R295132  
 OBJECT CODE: 624110-LINE ITEM #4 ON PO # P156924--\$22,197.67

Approved for Payment

Felita Fischer 8/12/10

Authorized Signature

Date

[Signature]  
8/11/10

Section Approval

Revised 10/2/06

# INVOICE



Invoice No. 19330	P 149763 - \$278,384.00 HCTRA Purchase Order No. P156924 - \$22,197.67	Invoice Date: 7/22/10	Due Date: 8/22/10
Vendor No. 251730334	TransCore Project No. 1309121	Customer No.: H0013	
Name of Project: HCTRA VES UPGRADE			
Name of Contractor: TransCore			
Bill to: Harris County Toll Road Authority 7701 Wilshire Place Drive, 5th floor Houston, TX 77040 Attention: Chuck Sanders		Remit to: TransCore Holdings, Inc. 36120 Treasury Center Chicago, IL 60694-6100	

SUMMARY OF WORK FOR WHICH PAYMENT IS REQUIRED

Item	Item	Total Contract Quantity	Unit Contract Amount	Total Contract Amount	Previous Quantity Invoiced	Previous Amount Invoiced	Current Month Quantity	Current Month Amount
1	VES Camera	600	\$ 1,779.00	\$ 1,067,400.00	603	\$ 1,072,737.00	0	\$ -
2	VES Camera Housing	360	\$ 2,226.00	\$ 801,360.00	360	\$ 801,360.00	0	\$ -
3	Camera Junction Box (1 camera/lane)	302	\$ 3,190.00	\$ 963,380.00	340	\$ 1,084,600.00	0	\$ -
4	Camera Junction Box (2 camera/lane)	93	\$ 3,945.00	\$ 366,885.00	95	\$ 374,775.00	0	\$ -
5	a. LED Illuminator	500	\$ 2,919.00	\$ 1,459,500.00	500	\$ 1,459,500.00	0	\$ -
	b. No Charge LED Illuminator		\$ -	\$ -	39	\$ -	0	\$ -
6	a. LED Illuminator Bracket	500	\$ 130.00	\$ 65,000.00	500	\$ 65,000.00	0	\$ -
	b. No Charge LED Illuminator Bracket		\$ -	\$ -	39	\$ -	0	\$ -
7	LED Illuminator Junction Box		\$ 1,744.00	\$ -	0	\$ -	0	\$ -
8	VES Controller (1-4 cameras)	40	\$ 8,354.00	\$ 334,160.00	57	\$ 476,178.00	0	\$ -
9	VES Controller (1-8 cameras)	05	\$ 9,101.00	\$ 591,565.00	75	\$ 682,575.00	0	\$ -
10	Plaza Image Computer	1	\$ 9,877.00	\$ 9,877.00	0	\$ -	7	\$ 54,600.00
11	a. OCR System Hardware	12	\$ 6,894.00	\$ 82,728.00	0	\$ -	8	\$ 55,152.00
	b. OCR System Software License	11	\$ 4,080.00	\$ 44,880.00	0	\$ -	8	\$ 32,840.00
12	OCR Tuning	0	\$ 30,936.00	\$ -	0	\$ -	0	\$ -
13	Initial Commissioning and Testing	0	\$ 12,410.02	\$ -	0	\$ -	0	\$ -
	Subtotal - Materials		\$ -	\$ 5,786,535.00	2608	\$ 6,016,725.00	29	\$ 210,137.00
14	Mainline Lane Installation (Labor + Materials)	0	\$ 9,615.00	\$ -	7	\$ 67,305.00	0	\$ -
15	Other Lane Installation (Labor + Materials)	300	\$ 22,749.00	\$ 8,872,110.00	72	\$ 1,637,928.00	3	\$ 68,247.00
16	Single Lane/Ramp Closure - TransCore Work		\$ 1,117.73	\$ -		\$ -	14	\$ 15,648.22
17	Two-Lane Closure - TransCore Work		\$ 1,309.89	\$ -		\$ -	5	\$ 6,548.45
18	Single Lane/Ramp Closure - Others Work		\$ 1,775.00	\$ -		\$ -	0	\$ -
19	Two-Lane Closure - Others Work		\$ 2,125.55	\$ -		\$ -	0	\$ -
20	Public Notification - Work		\$ 675.00	\$ -		\$ -	0	\$ -
	Subtotal - Labor		\$ -	\$ 8,872,110.00		\$ 1,705,233.00		\$ 90,444.67

Submitted By: <u>Ron Barr</u> TransCore	Date: 7/22/2010	Current Invoice Amount	\$ 300,581.67
		Total Amount Invoiced to Date	\$ 8,022,539.07
		Contract Amount	\$ 14,658,645.00
		Amount Remaining	\$ 6,636,105.33

SPLIT PAY ON TWO P.O.'S  
P 149763 - \$278,384.00  
P 156924 - \$22,197.67

OK TO PAY  
(5) 7/27/10

RECEIVED  
BARBARA A. SCHOTT  
HARRIS COUNTY AUDITOR  
HOUSTON, TEXAS  
2010 AUG 16 AM 10:33



May/June/July Lane Closures

Date	Location	Type	Quantity	Price	Date Invoiced	Issue
5/13/2010	249 Entrance Lanes 31,32	Single Lane/Ramp Closure	1	\$1,117.73		Camera in lane 31 image is tilted to the left
5/20/2010	Bellaire Exit Lanes 68,69	Single Lane/Ramp Closure	1	\$1,117.73		Swap FSJ4 to LDF4 per HCTRA
5/25/2010	West Rd Exit Lanes 58,59	Single Lane/Ramp Closure	1	\$1,117.73		Camera in lane 59 has dark images
5/26/2010	Bellaire Entrance 60,61	Single Lane/Ramp Closure	1	\$1,117.73		Camera in Lane 61 has dark images
6/1/2010	Sam South Lanes 7,8	Two-Lane Closure	1	\$1,309.89		Center camera in lane 7 has dark images. Right camera in lane 8
6/1/2010	Sam South Lane 9	Single Lane/Ramp Closure	1	\$1,117.73		On-Retro LED illuminator not working
6/10/2010	Sam Southwest Lane 1	Single Lane/Ramp Closure	1	\$1,117.73		Damage caused by vehicle accident
6/10/2010	Moore West Shoulder Lane	Single Lane/Ramp Closure	1	\$1,117.73		Test all VES lighting and replace light bulbs and sockets after
6/11/2010	Moore West Lanes 1,2	Two-Lane Closure	1	\$1,309.89		Found bulbs out when powering up entire system.
6/11/2010	Moore West Lane 3	Single Lane/Ramp Closure	1	\$1,117.73		Loop damage caused by vehicle accident
6/14/2010	Moore West Lanes 1,2	Two-Lane Closure	1	\$1,309.89		Center camera in lane 7 has dark images.
6/16/2010	Sam North Lane 3	Single Lane/Ramp Closure	1	\$1,117.73		Camera in lane 68 has dark images
6/17/2010	Sam North Lane 6,7	Two-Lane Closure	1	\$1,309.89		Camera in Lane 70 was fuzzy and out of focus.
6/23/2010	Bellaire Exit Lanes 68,69	Single Lane/Ramp Closure	1	\$1,117.73		
6/29/2010	Ran:in Entrance Lane 70	Single Lane/Ramp Closure	1	\$1,117.73		

6/23/2010	Westheimer Entrance Lanes 40,41	Single Lane/Ramp Closure	1	\$1,117.73		Install lane control signal in lane 42	In pt al
7/5/2010	Sam North Lanes 5,6	Two-Lane Closure	1	\$1,309.89		Center camera in lane 7 has dark	C
7/6/2010	Sam North Lane 7	Single Lane/Ramp Closure	1	\$1,117.73		images	re
7/19/2010	Sam South Lane 4	Single Lane/Ramp Closure	1	\$1,117.73		Camera showing video out on ELPAC	R o V

Invoice #19330  
Westheimer Exit

<u>ML</u>	<u>Other</u>
	3

07/0421

## Section 3. Pricing and Delivery Information

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As part of TransCore's proposal, the table on the following page provides pricing for the proposed TollVision system and pricing to install and maintain that system. Since the task/item breakdown is not specific to the location of cameras or existing site-conditions, TransCore assumes the following in the pricing structure to install and maintain the VES cameras specified within this proposal:

1. Unit labor pricing has been provided for the installation of VES at a single mainline lane where three (3) existing cameras will be replaced and minimal infrastructure improvement costs will be required.
2. Unit labor pricing has been provided for the installation of VES at 'other' lanes – including ramps and mainline plaza lanes – where there is no existing VES infrastructure. This price includes required infrastructure improvement costs and the integration of VES equipment into an existing toll collection booth or cabinet. This price also assumes that one (1) camera will be installed per 'other' lane.
3. All prices include freight.
4. All communications costs (installation and integration) and any costs considered incidental to communications have been excluded due to un-specified existing conditions and locations.
5. Pricing assumes no full-depth pavement repair at 'other' lanes and thus excludes costs to cut new loops.
6. Pricing assumes that all lane closures will be provided by HCTRA.
7. Annual maintenance pricing is provided in a lump sum amount per the number of TollVision system cameras deployed throughout the HCTRA toll road network. This annual amount applies once the first camera in each grouping becomes operational.

251730334

**ATTACHMENT "A"**

**Best and Final Offer:**

1. VES Camera	Each	600	\$1,779.00	\$1,779.00	\$1,067,400.00
2. VES Camera Housing	Each	360	\$2,226.00	\$2,226.00	\$801,360.00
3. Camera Junction Box (1 camera/lane)	Each	302	\$3,190.00	\$3,190.00	\$963,380.00
4. Camera Junction Box (3 cameras/lane)	Each	93	\$3,945.00	\$3,945.00	\$366,885.00
5. LED Illuminator	Each	500	\$2,919.00	\$2,919.00	\$1,459,500.00
6. LED Illuminator bracket	Each	500	\$130.00	\$130.00	\$65,000.00
7. VES Controller (1-4 cameras)	Each	40	\$8,354.00	\$8,354.00	\$334,160.00
8. VES Controller (1-8 cameras)	Each	65	\$9,101.00	\$9,101.00	\$591,565.00
9. Plaza Image Computer	Each	1	\$9,677.00	\$9,677.00	\$9,677.00
10. a. OCR System - Hardware	Each	12	\$6,894.00	\$6,894.00	\$82,728.00
b. OCR System - Software License	Each	11	\$4,080.00	\$4,080.00	\$44,880.00
<b>SUBTOTAL - MATERIALS</b>					<b>\$5,786,535.00</b>
11. 'Other' Lane Installation (Labor + Materials)	Each	390	\$22,749.00	\$22,749.00	\$8,872,110.00
<b>SUBTOTAL - LABOR</b>					<b>\$8,872,110.00</b>
12. Annual VES Maintenance (Cameras 321 - 400)	Lot	1	\$140,000.00	\$140,000.00	\$140,000.00
13. Annual VES Maintenance (Cameras 401 - 480)	Lot	1	\$140,000.00	\$140,000.00	\$140,000.00
14. Annual VES Maintenance (Cameras 481 - 640)	Lot	1	\$140,000.00	\$140,000.00	\$140,000.00
15. Annual VES Maintenance (Cameras 641 - 800)	Lot	1	\$140,000.00	\$140,000.00	\$140,000.00
16. Annual VES Maintenance (Cameras 801 - 960)	Lot	1	\$140,000.00	\$140,000.00	\$140,000.00
<b>SUBTOTAL - MAINTENANCE</b>					<b>\$700,000.00</b>
<b>TOTAL</b>					<b>\$15,358,645.00</b>

Equipment warranty is for one year.

Equipment can be delivered within 90 days upon receipt of release request for the associated purchase order resulting from this RFP.

**RENEWAL**

Bidder agrees to renew this contract for the time frame stated below under the same terms and conditions and pricing as the original contract. If bidder does not wish to be considered for renewal, write "N.A." in the space provided.

Renewal Year 1: (2009 - 2010) YES

Renewal Year 2: (2010 - 2011) YES

Renewal Year 3: (2011 - 2012) YES\*

Renewal Year 4: (2012 - 2013) YES\*

\* The pricing for the renewal in years 3 and 4 shall be adjusted by dividing the Consumer Price Index (CPI) (CPI-U for Houston, Texas) of the latest full month for which public statistics are available at the end of renewal year 2, by the CPI value for the month and year on which this Contract is executed. The quotients so derived shall then be multiplied by the unit prices listed above and the new unit prices shall be used for renewal years 3 and 4. The CPI values used in such computations shall be as published in the Monthly Labor Review by the U.S. Department of Labor, Bureau of Labor Statistics.

RECEIVING FORM

TRAP AUG 10 11.9

Date: 08/03/10

Section/Person Responsible for PO: Facilities-Maintenance/Marisela Vega

Purchase Order #: P149763 ✓

Approved CC

Vendor Name: TRANSCORE

Date 8-18-10

Invoice #: 10-02524 ✓

Batch AK 816 CK2

Invoice Amount: \$58,333.33 ✓

CC Date 8-24-10

Description: VES MAINTENANCE FOR 07/01/10 - 07/31/10


ORG: 57405024

OBJ: 624110

P.O. BALANCE: \$466,666.72

Approved for Payment

R Castañeda 8/6/10  
 Authorized Signature Date

  
8/4/10  
 Section Approval

Revised 10/2/06

INVOICE

TRANSCORE

HCTRA

Remittance Address

Transcore  
PO Box 911493  
Atlanta, GA 31193-1493

10 AUG -2 PM 2:24

Invoice Number: 10-02524

Invoice Date: 07/26/2010

Bill To:  
HARRIS COUNTY TOLL RD AUTHORITY  
ACCOUNTS PAYABLE  
330 MEADOWFERN, SUITE 200  
HOUSTON, TX 77067

10 AUG 6 PM 12:04

10 AUG 16 PM 4:18

Customer Number: H0013  
Customer PO Number: P145763  
Project Number: 1100007  
Project Name: Maint VES Project: 1300153  
Terms: NET 30  
Due Date: 08/25/2010

Billing Period From: 07/01/2010  
To: 07/31/2010  
Billing Currency: USD

5 VES Maint Techs  
BILL SCHEDULE ITEMS

Current Amount
58,333.33
58,333.33
58,333.33

invoice Total

*du*  
*Blak*

2010 AUG 11 AM 7:44  
GARRARD & SCHOETZ  
HARRIS COUNTY AUDITOR  
HOUSTON, TEXAS

VES maintenance for July 2010

*m*

RECEIVING FORM

TRAP JUL 31 10 21 31

Date: 07/01/10

Section/Person Responsible for PO: Facilities-Maintenance/Marisela Vega

Purchase Order #: P149763 PAY ON LINE ITEM #5 1R323293 Approved CC

Vendor Name: TRANSCORE Date 7-22-10

Invoice #: 10-02141 Batch AK 714 CK2

Invoice Amount: \$58,333.33 CC Date 7-27-10

Description: VES MAINTENANCE FOR 06/01/10 TO 06/30/10


ORG: 57405024 OBJ: 624110

P.O. BALANCE: \$525,000.05

Approved for Payment

Line Carried 7/8/2010

Authorized Signature

Date

[Signature]  
7/6/10  
Section Approval

Revised 10/2/06



INVOICE

TRANSCORE

HCTRA

10 JUN 28 PM 1:19

Reference: 13488

Invoice  
# 10-02141  
Date: 06/25/2010

Invoice Number: 10-02141

Invoice Date: 06/25/2010

Bill To:  
Harris Co. Toll Road Auth  
Attn.: Accounts Payable  
330 Meadowfern Road  
Houston, TX 77067

10 JUL 8 PM 4:06

Customer Number: H0013

Customer PO Number: P149763  
Project Number: 1100007  
Project Name: Maint VES Project 1300153  
Terms: NET 30  
Due Date: 07/25/2010

10 JUL 19 PM 4:10

Billing Period From: 06/01/2010  
to: 06/30/2010

Billing Currency: USD

5 VES Maint Techs  
BILL SCHEDULE ITEMS

Invoice Total

Current Amount
58,333.33
58,333.33
58,333.33

REC  
HOTT, CPA  
AUDITOR  
HOUSTON, TEXAS

2010 JUL -9 PM 2:32

*Handwritten signature*  
7/6/10

VES maintenance for 06/01/10 to 06/30/10

(m)

RECEIVING FORM

'10 JUN 7 AM 8:34 <<

Date: 06/02/10

Section/Person Responsible for PO: Facilities-Maintenance/Marisela Vega

Purchase Order #: P149763 PAY ON LINE ITEM #5 1R3232 93 Approved CC

Vendor Name: TRANSCORE Date 6-11-10

Invoice #: 10-01783 / Batch AK 609 CKO

Invoice Amount: \$58,333.33 CC Date 6-22-10

Description: VES MAINTENANCE FOR 05/01/10 - 05/31/10


ORG: 57405024 OBJ: 624110

P.O. BALANCE: \$583,333.38

Approved for Payment

Kay Anne 6/4/10

Authorized Signature

Date

[Signature]  
6/3/10  
Section Approval

Revised 10/2/06

INVOICE

TRANSCORE

HCTRA

Remittance Address

Transcore  
PO Box 933493  
Atlanta, GA 31193-3493

10 JUN -2 AM 8: 12

Invoice Number: 10-01783

Invoice Date: 05/26/2010

Bill To:  
Harris Co. Toll Road Auth  
Attn.: Accounts Payable  
330 Meadowfern Road  
Houston, TX 77067

Customer Number: H0013

'10 JUN 7 AM 8:34

Customer PO Number: P149763  
Project Number: 1100007  
Project Name: Maint VES Project 1300153  
Terms: NET 30  
Due Date: 06/25/2010

Billing Period From: 05/01/2010  
To: 05/31/2010

Billing Currency: USD

5 VES Maint Techs  
BILL SCHEDULE ITEMS

Current Amount
58,333.33
58,333.33

Invoice Total

58,333.33

RECEIVED  
HARRIS COUNTY TOLL ROAD AUTHORITY  
HOUSTON, TEXAS  
2010 JUN 1 -9 PM 1:08

(m)

RECEIVING FORM

'10 JUN 7 AM 8:26

Date: 05/28/10

Section/Person Responsible for PO: Facilities-Maintenance/Marisela Vega

Purchase Order #: P149763 - PAY ON LINE ITEM # 5 / R323293  
HARDWARE MAINTENANCE

Approved CC

Vendor Name: TRANSCORE

Date 6-14-10

Invoice #: 10-01425

Batch AK611CRO

Invoice Amount: \$58,333.33

CC Date 6-22-10

Description: VES MAINTENANCE FOR 04/01/10 TO 04/30/10


ORG: 57405024      OBJ: 624110

P.O. BALANCE: \$641,666.71

Approved for Payment

Kay Anne      6/4/10  
Authorized Signature      Date

[Signature]  
6/1/10  
Section Approval

Revised 10/2/06

TRANSCORE

INVOICE

HCTRA

10 MAY -4 AM 8:16

Remittance Address

Transcore  
P.O. Box 933493  
Atlanta, GA 31193-3493

Invoice Number: 10-01425

Invoice Date: 04/27/2010

Bill To:  
Harris Co. Toll Road Auth  
Attn.: Accounts Payable  
330 Meadowfern Road  
Houston, TX 77067

'10 JUN 7 AM 8:26

Customer Number: H0013

Customer PO Number: ~~P166034~~ P149763  
Project Number: 1100007  
Project Name: Maint VES Project 1300153  
Terms: NET 30  
Due Date: 05/27/2010

Billing Period From: 04/01/2010  
To: 04/30/2010

Billing Currency: USD

5 VES Maint Techs  
BILL SCHEDULE ITEMS

Current Amount
58,333.33
58,333.33
<u>58,333.33</u>

Invoice Total

Based on 700,000 total  
÷ 12 = 58,333.33

*Handwritten signature*  
6/1/10

2010 JUN -9 PM 1:07  
HARRIS COUNTY  
HARRIS COUNTY  
HOUSTON, TEXAS



RECEIVING FORM

'10 APR 8 PM 3:41

Date: 04/01/10

Section/Person Responsible for PO: Facilities-Maintenance/Marisela Vega

Purchase Order #: P149763 ✓

Approved CC

Vendor Name: TRANSCORE

Date 4-22-10

Invoice #: 10-01071 ✓

Batch AK419CKO

Invoice Amount: \$58,333.33 ✓

CC Date 4-27-10

Description: **VES MAINTENANCE FOR MARCH 2010**


ORG: 57405007

OBJ: 624110

P.O. BALANCE: \$.04

Approved for Payment

Lise Custarick      4/7/2010

CC  
4/5/10  
Section Approval

Authorized Signature

Date

Revised 10/2/06

INVOICE

TRANSCORE®

HCTRA

10 MAR 29 PM 1:31

Remittance Address

Transcore  
PO Box 933493  
Atlanta, GA 31193-3493

Invoice Number: 10-01071

Invoice Date: 03/25/2010

Bill To:  
Harris Co. Toll Road Auth  
Attn: Accounts Payable  
330 Meadowfern Road  
Houston, TX 77067

'10 APR 8 PM 3:42

Customer Number: H0013

Customer PO Number: ~~P156924~~ P149763  
Project Number: 1100007  
Project Name: Maint VES Project 1300153  
Terms: NET 30  
Due Date: 04/24/2010

Billing Period From: 03/01/2010 To: 03/31/2010  
Billing Currency: USD

5 VES Maint Techs  
BILL SCHEDULE ITEMS

Current Amount
58,333.33
58,333.33
58,333.33

Invoice Total

CONTRACT REVIEWED

OK 3/21/10  
4/5/10

\$700,000 / 12 = ~~env~~ amt  
Item 12-16 attachment A

VES Maintenance for March 2010.

2010 APR 14 AM 7:58  
HARRIS COUNTY  
HOUSTON, TX

*(Handwritten initials)*

RECEIVING FORM

'10 MAR 17 AM 7:50

Date: 03/08/10

Section/Person Responsible for PO: Facilities-Maintenance/Marisela Vega

Purchase Order #: P149763 - PAY ON LINE ITEM #4

Approved AK

Vendor Name: TRANSCORE

Date 4/6/10

Invoice #: 10-00745

Batch AK324CK1

Invoice Amount: \$58,333.33

CC Date \_\_\_\_\_

Description: VES MAINTENANCE FOR 02/01/10 - 02/28/10


ORG: 57405007

OBJ: 624110

P.O. BALANCE: \$58,333.37

Approved for Payment

Kary Anne

3/16/10

Authorized Signature

Date

AK

Section Approval

Revised 10/2/06



INVOICE

TRANSCORE

HCTRA

10 MAR -5 PM 1:27

Remittance Address

Transcore  
PO Box 913494  
Atlanta, GA 31193-6994

Invoice Number: 10-00745

Invoice Date: 02/26/2010

Bill To:  
Harris Co. Toll Road Auth  
Attn.: Accounts Payable  
330 Meadowfern Road  
Houston, TX 77067

*PAID*

Customer Number: H0013

Customer PG Number: ~~P156924~~ **P149763**  
Project Number: 1100007  
Project Name: Maint VES Project 1300153  
Terms: NET 30  
Due Date: 03/28/2010

Billing Period From: 02/01/2010 To: 02/28/2010  
Billing Currency: USD

5 VES Maint Techs  
BILL SCHEDULE ITEMS

Current Amount
58,333.33
58,333.33

Invoice Total

58,333.33

*Handwritten initials/signature*

RECEIVED  
HARRIS COUNTY  
PROPERTY SERVICES  
2010 MAR 19 AM 9:45

20 MAR 17 AM 7:30

*Handwritten mark*

RECEIVING FORM

'10 FEB 22 PM 3:26

Date: 02/18/10

Section/Person Responsible for PO: Facilities-Maintenance/Marisela Vega

Purchase Order #: P149763 - Pay on Line Item #4

Approved CC

Vendor Name: TRANSCORE

Date 2-26-10

Invoice #: 10-00334

Batch AK 225 CKD

Invoice Amount: \$58,333.33

CC Date 3-9-10

Description: VES MAINTENANCE FOR 01/01/10 - 01/31/10


ORG: 57405007 OBJ: 624110

P.O. BALANCE: \$116,666.70

Approved for Payment

Jim Castaneda 2/19/2010

Authorized Signature

Date

[Signature]  
2/18/10  
Section Approval

Revised 10/2/06

INVOICE

TRANSCORE

HCTRA

10 FEB 16 PM 1:14

Remittance Address

Transcore  
PO Box 914091  
Atlanta, GA 31191-4091

Invoice Number: 10-00334

Invoice Date: 01/31/2010

Bill To:

Harris Co. Toll Road Auth  
Attn.: Accounts Payable  
330 Meadowfern Road  
Houston, TX 77067

10 FEB 22 PM 3:25

Customer Number: H0013

Customer PO Number: ~~P156924~~ P149763  
Project Number: 1100007  
Project Name: Maint VES Project 1300153  
Terms: NET 30  
Due Date: 03/02/2010

Billing Period From: 01/01/2010 To: 01/31/2010  
Billing Currency: USD

5 VES Maint Techs  
BILL SCHEDULE ITEMS

Current Amount  
58,333.33  
58,333.33

Invoice Total

58,333.33

\* 700,000 yearly maint. fee ÷ 12

*And*  
2/18/10

*M*

2010 FEB 23 11:14:23

**RECEIVING FORM**

TR0 AP JAN1110PM2.1

Date: 01/05/10

Section/Person Responsible for PO: Facilities-Maintenance/Marisela Vega

Purchase Order #: P149763 - PAY ON LINE ITEM # 4

Approved [Signature]

Vendor Name: TRANSCORE

Date 1/22/10

Invoice #: 09-08231

Batch AK122CKO

Invoice Amount: \$58,333.33

CC Date \_\_\_\_\_

Description: MAINTENANCE FOR VES PROJECT - 12/01/2009 TO 12/31/2009


**ORG: 57405007**

**OBJ: 624110**

**P.O. BALANCE: \$175,000.03**

Approved for Payment

[Signature: Rita Castañeda]

1/8/2010

[Signature]  
Section Approval

Authorized Signature

Date

Revised 10/2/06