



AGENDA MEMORANDUM

Action Item for the City Council Meeting February 14, 2023

DATE: February 14, 2023
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Service Agreement for 3D Laser Scanning Systems, Onsite Training, and Software Licenses for the Corpus Christi Police Department

CAPTION:

Motion authorizing a three-year service agreement with AllTerra Central, Inc., of Austin, Texas, through the Texas DIR Cooperative to purchase three 3D laser scanning systems, onsite training, and software licenses for the Corpus Christi Police Department, an FY 2023 Budget Initiative, in an amount not to exceed \$206,459.92, with FY 2023 funding in the amount of \$71,432.20 from the General Fund and \$135,027.72 from the Police Grants Fund.

SUMMARY:

This motion authorizes a three-year service agreement with AllTerra Central, Inc. of Austin, Texas to provide three 3D laser scanning systems, onsite training, and software licenses for the 3D laser scanning systems for the Corpus Christi Police Department.

BACKGROUND AND FINDINGS:

This item is an FY 2023 Budget Initiative, with funds allocated for the purchase of the three 3D laser scanning systems, onsite training, and software licenses

The purchase of the three 3D laser scanning systems is for the documentation and capture of crime scenes, particularly homicides and officer-involved shootings. The three 3D laser scanning systems will be assigned to Corpus Christi Police Department's (CCPD) Police Forensic Services Division. As part of the agreement, the vendor will provide on-site training to 15 CCPD employees. The training will be a week long (40 hours) and will familiarize the 15 CCPD employees with the operations of the Trimble Forensics X7 3D laser scanner system and the use of associated software.

3D laser scanning systems record millions of points of data to create a three-dimensional point cloud that is a digital reconstruction of a crime scene. This technology provides unprecedented levels of detail and precision versus traditional methods of documentation and measurement, while dramatically reducing the amount of time and manpower needed to thoroughly document crime scenes.

In its entirety, from initial documentation to preparation of final diagrams, a typical crime scene can take many hours, both at the scene itself and afterwards, as forensic teams compile measurements and create sketches. Typically, this work is done either by hand or using antiquated software. The use of 3D laser scanning systems will reduce this time by 80 percent or more. Additionally, data acquired with this device can be integrated with information captured with drone-based 3D mapping to provide a completely digital-workflow for documenting both indoor and outdoor crime scenes.

This technology will greatly enhance CCPD’s ability to conduct thorough, accurate, and timely crime scene analysis. It also will aid investigators, judges, attorneys, and juries in understanding the scene to a much greater degree, permitting examination from literally all angles as well as 3D “flythroughs” that put them (virtually) inside the crime scene.

Such detail is increasingly expected in the courtroom setting. The combined approach of 3D laser scanning with drone photogrammetry will advance CCPD’s capabilities by several decades as compared to where it stands now. Resultingly, this will bring CCPD into the modern era of crime scene investigation and forensic analysis. This equipment is very much needed and will be the first of its kind in CCPD.

PROCUREMENT DETAIL:

This procurement is through the Texas DIR Cooperative. Contracts awarded through the Texas DIR Purchasing Cooperative have been competitively procured, in compliance with local and state procurement requirements. AllTerra Central, Inc. is the only dealer in Texas that is authorized to sell Trimble Manufacturing items exclusively through the Texas DIR Purchasing Cooperative.

AllTerra Central, Inc., under Texas DIR Cooperative, offers between 9% to 15% customer discount pricing. However, different brand names of scanner systems were demonstrated to CCPD’s Forensics Department, and the price comparisons for like-models through the Texas DIR Cooperative was more than double (104% more). Additional annual calibration costs of \$5,000 also would apply to like-models versus the Trimble Manufacturing brand that self-calibrates with no additional costs. Please see the table below for a breakdown of the comparison between the recommended Texas DIR Cooperative (Trimble Brand) and two other like-model providers.

Unit	Texas DIR Trimble Brand*	Texas DIR Leica Brand	Variance
Scanner Systems	\$206,459.92	\$416,545.08	\$ (210,085.16)
Calibration Fee	\$0.00	\$5,000.00	\$ (5,000.00)
Total	\$206,459.92	\$421,545.08	\$ (215,085.16)

Unit	Texas DIR Trimble Brand*	Non-Cooperative Faro Brand	Variance
Scanner Systems	\$206,459.92	\$262,239.99	\$ (55,780.07)
Calibration Fee	\$0.00	\$5,000.00	\$ (5,000.00)
Total	\$206,459.92	\$267,239.99	\$ (60,780.07)

*Trimble Brand Self-Calibrates

ALTERNATIVES:

The alternative is not to award this contract and, as a result, return the Coverdell grant funds to the

State. This would result in lower chances of receiving such grants from the State in the future. It also would result in CCPD continuing to use its antiquated software and time-consuming methods for crime scene analyses.

FISCAL IMPACT:

FY 2023 funding of \$71,432.20 is coming from the General Fund and \$135,027.72 from the Police Grants Fund.

FUNDING DETAIL:

Fund: 1020
Organization/Activity: 11780
Mission Element: 29
Project # **(CIP Only)**: N/A
Account: 520090
Amount: \$71,432.20

Fund: 1061
Organization/Activity: 822903F
Mission Element: 29
Project # **(CIP Only)**: N/A
Account: 520090
Amount: \$135,027.70

RECOMMENDATION:

Staff recommends the approval of this service agreement with AllTerra Central, Inc. for the purchase of three 3D laser scanning systems, onsite training, and software licenses, as presented.

LIST OF SUPPORTING DOCUMENTS:

Price Sheet
Service Agreement