

**EXHIBIT**

**"A"**

**CITY OF ROUND ROCK AGREEMENT FOR  
PROFESSIONAL CONSULTING SERVICES FOR  
TRAFFIC SIGN DATA COLLECTION  
WITH  
TRANSMAP CORPORATION**

**THE STATE OF TEXAS**

§

**THE CITY OF ROUND ROCK**

§

**KNOW ALL BY THESE PRESENTS**

§

**COUNTY OF WILLIAMSON**

§

**COUNTY OF TRAVIS**

§

THIS AGREEMENT for professional consulting services related to traffic sign data collection (the "Agreement") is made by and between the CITY OF ROUND ROCK, a Texas home-rule municipal corporation with offices located at 221 East Main Street, Round Rock, Texas 78664-5299 (the "City"), and TRANSMAP CORPORATION, located at 5030 Transamerica Drive, Columbus, Ohio 43228 (the "Consultant").

**RECITALS:**

**WHEREAS**, City desires to contract for Consultant's professional services generally described as providing traffic sign data collection services; and

**WHEREAS**, City has determined that there is a need for the delineated services; and

**WHEREAS**, desires to contract for such professional services; and

**WHEREAS**, the parties desire to enter into this Agreement to set forth in writing their respective rights, duties and obligations hereunder.

**NOW, THEREFORE, WITNESSETH:**

That for and in consideration of the mutual promises contained herein and other good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, it is mutually agreed between the parties as follows:

**1.01 EFFECTIVE DATE, DURATION, AND TERM**

This Agreement shall be effective on the date this Agreement has been signed by each party hereto, and shall remain in full force and effect unless and until it expires by operation of the term indicated herein, or is terminated or extended as provided herein.

The term of this Agreement shall be for a period of twelve (12) months from the effective date. City reserves the right to review the Agreement at any time, and may elect to terminate the Agreement with or without cause or may elect to continue.

## **2.01 PROPOSAL FOR SERVICES**

Consultant has issued its proposal for services for the tasks delineated therein, such proposal for services being appended to this Agreement as Exhibit "A" titled "Scope of Work," which document is attached hereto and incorporated herein by reference for all purposes.

## **3.01 SCOPE OF SERVICES**

A. Consultant shall satisfactorily provide all services described herein and as set forth in Exhibit "A." Consultant's undertaking shall be limited to performing services for City and/or advising City concerning those matters on which Consultant has been specifically engaged. Consultant shall perform services in accordance with this Agreement, in accordance with the appended proposal for services, and in accordance with due care and prevailing consulting industry standards for comparable services.

B. Consultant will be available to meet with the City, and other project partners as requested by the City, on a periodic basis to assess the progress of the Scope of Work, and at such time Consultant will provide the City with Consultant's opinions and recommendations for successfully completing the services.

## **4.01 LIMITATION TO SCOPE OF SERVICES**

Consultant and City agree that the scope of services to be performed is enumerated in Exhibit "A" and herein, and may not be changed without the express written agreement of the parties. Notwithstanding anything herein to the contrary, the parties agree that City retains absolute discretion and authority for all funding decisions, such to be based solely on criteria accepted by City which may be influenced by but not be dependent on Consultant's work.

## **5.01 CONTRACT AMOUNT**

In consideration for the professional consulting services to be performed by Consultant, City agrees to pay Consultant in accordance with Exhibit "A." Total payment to the Consultant shall not exceed **One Hundred Seventy-Four Thousand Nine Hundred Sixty-Nine and 81/100 Dollars (\$174,969.81).**

## **6.01 PROMPT PAYMENT POLICY**

In accordance with Chapter 2251, V.T.C.A., Texas Government Code, any payment to be made by the City to Consultant will be made within thirty (30) days of the date the City receives goods under this Agreement, the date the performance of the services under this Agreement are completed, or the date the City receives a correct invoice for the goods or services, whichever is later. Consultant may charge interest on an overdue payment at the "rate in effect" on September 1 of the fiscal year in which the payment becomes overdue, in accordance with V.T.C.A., Texas Government Code, Section 2251.025(b). This Prompt Payment Policy does not apply to payments made by the City in the event:

- (a) There is a bona fide dispute between the City and Consultant, a contractor, subcontractor, or supplier about the goods delivered or the service performed that cause the payment to be late; or
- (b) There is a bona fide dispute between Consultant and a subcontractor or between a subcontractor and its supplier about the goods delivered or the service performed that causes the payment to be late; or
- (c) The terms of a federal contract, grant, regulation, or statute prevent the City from making a timely payment with federal funds; or
- (d) The invoice is not mailed to the City in strict accordance with any instruction on the purchase order relating to the payment.

#### **7.01 NON-APPROPRIATION AND FISCAL FUNDING**

This Agreement is a commitment of the City's current revenues only. It is understood and agreed that the City shall have the right to terminate this Agreement at the end of any City fiscal year if the governing body of the City does not appropriate funds sufficient to purchase the services as determined by the City's budget for the fiscal year in question. The City may effect such termination by giving Consultant a written notice of termination at the end of its then-current fiscal year.

#### **8.01 SUPPLEMENTAL AGREEMENT**

The terms of this Agreement may be modified by written Supplemental Agreement hereto, duly authorized by City Council or by the City Manager, if the City determines that there has been a significant change in (1) the scope, complexity, or character of the services to be performed; or (2) the duration of the work. Any such Supplemental Agreement must be executed by both parties within the period specified as the term of this Agreement. Consultant shall not perform any work or incur any additional costs prior to the execution, by both parties, of such Supplemental Agreement. Consultant shall make no claim for extra work done or materials furnished unless and until there is full execution of any Supplemental Agreement, and the City shall not be responsible for actions by Consultant nor for any costs incurred by Consultant relating to additional work not directly authorized by Supplemental Agreement.

#### **9.01 TERMINATION; DEFAULT**

**Termination:** It is agreed and understood by Consultant that either party may terminate this Agreement for convenience, upon thirty (30) days' written notice to Consultant, with the understanding that immediately upon receipt of said notice all work being performed under this Agreement shall cease. Consultant shall invoice the City for work satisfactorily completed and shall be compensated in accordance with the terms hereof for work accomplished prior to the receipt of said notice of termination. Consultant shall not be entitled to any lost or anticipated

profits for work terminated under this Agreement. Unless otherwise specified in this Agreement, all data, information, and work product related to this project shall become the property of the City upon termination of this Agreement, and shall be promptly delivered to the City in a reasonably organized form without restriction on future use. Should the City subsequently contract with a new consultant for continuation of service on the project, Consultant shall cooperate in providing information.

Termination of this Agreement shall extinguish all rights, duties, and obligations of the parties to fulfill contractual obligations. Termination under this section shall not relieve the terminated party of any obligations or liabilities which occurred prior to termination.

Nothing contained in this section shall require the City to pay for any work which it deems unsatisfactory or which is not performed in compliance with the terms of this Agreement.

**Default:** Either party may terminate this Agreement, in whole or in part, for default if the Party provides the other Party with written notice of such default and the other fails to satisfactorily cure such default within ten (10) business days of receipt of such notice (or a greater time if agreed upon between the Parties).

If default results in termination of this Agreement, then the City shall give consideration to the actual costs incurred by Consultant in performing the work to the date of default. The cost of the work that is useable to the City, the cost to the City of employing another firm to complete the useable work, and other factors will affect the value to the City of the work performed at the time of default. Neither party shall be entitled to any lost or anticipated profits for work terminated for default hereunder.

The termination of this Agreement for default shall extinguish all rights, duties, and obligations of the terminating Party and the terminated Party to fulfill contractual obligations. Termination under this section shall not relieve the terminated party of any obligations or liabilities which occurred prior to termination.

Nothing contained in this section shall require the City to pay for any work which it deems unsatisfactory, or which is not performed in compliance with the terms of this Agreement.

#### **10.01 INSURANCE**

Services Provider shall meet all requirements as stated in the attached IFB, including all attachments and exhibits thereto, and Services Provider's bid response and as set forth at: [http://www.roundrocktexas.gov/wp-content/uploads/2014/12/corr\\_insurance\\_07.20112.pdf](http://www.roundrocktexas.gov/wp-content/uploads/2014/12/corr_insurance_07.20112.pdf).

#### **11.01 NON-SOLICITATION**

Except as may be otherwise agreed in writing, during the term of this Agreement and for twelve (12) months thereafter, neither the City nor Consultant shall offer employment to or shall employ any person employed then or within the preceding twelve (12) months by the other or

any affiliate of the other if such person was involved, directly or indirectly, in the performance of this Agreement. This provision shall not prohibit the hiring of any person who was solicited solely through a newspaper advertisement or other general solicitation.

## **12.01 CITY'S RESPONSIBILITIES**

**Full information:** The City shall provide full information regarding project requirements. The City shall have the responsibility of providing Consultant with such documentation and information as is reasonably required to enable Consultant to provide the services called for. The City shall require its employees and any third parties who are otherwise assisting, advising or representing the City to cooperate on a timely basis with Consultant in the provision of its services. Consultant may rely upon written information provided by the City and its employees and agents as accurate and complete. Consultant may rely upon any written directives provided by the City or its designated representative concerning provision of services as accurate and complete.

**Required materials:** Consultant's performance requires receipt of all requested information reasonably necessary to provision of services. Consultant agrees, in a timely manner, to provide City with a comprehensive and detailed information request list, if any.

## **13.01 INDEPENDENT CONTRACTOR STATUS**

Consultant is an independent contractor, and is not the City's employee. Consultant's employees or subcontractors are not the City's employees. This Agreement does not create a partnership, employer-employee, or joint venture relationship. No party has authority to enter into contracts as agent for the other party. Consultant and the City agree to the following rights consistent with an independent contractor relationship:

- (1) Consultant has the right to perform services for others during the term hereof.
- (2) Consultant has the sole right to control and direct the means, manner and method by which it performs its services required by this Agreement.
- (3) Consultant has the right to hire assistants as subcontractors, or to use employees to provide the services required by this Agreement.
- (4) Consultant or its employees or subcontractors shall perform services required hereunder, and the City shall not hire, supervise, or pay assistants to help Consultant.
- (5) Neither Consultant nor its employees or subcontractors shall receive training from the City in skills necessary to perform services required by this Agreement.

- (6) City shall not require Consultant or its employees or subcontractors to devote full time to performing the services required by this Agreement.
- (7) Neither Consultant nor its employees or subcontractors are eligible to participate in any employee pension, health, vacation pay, sick pay, or other fringe benefit plan of the City.

#### **14.01 CONFIDENTIALITY; MATERIALS OWNERSHIP**

Any and all programs, data, or other materials furnished by the City for use by Consultant in connection with services to be performed under this Agreement, and any and all data and information gathered by Consultant, shall be held in confidence by Consultant as set forth hereunder. Each party agrees to take reasonable measures to preserve the confidentiality of any proprietary or confidential information relative to this Agreement, and to not make any use thereof other than for the performance of this Agreement, provided that no claim may be made for any failure to protect information that occurs more than three (3) years after the end of this Agreement.

**The parties recognize and understand that the City is subject to the Texas Public Information Act and its duties run in accordance therewith.**

All data relating specifically to the City's business and any other information which reasonably should be understood to be confidential to City is confidential information of City. Consultant's proprietary software, tools, methodologies, techniques, ideas, discoveries, inventions, know-how, and any other information which reasonably should be understood to be confidential to Consultant is confidential information of Consultant. The City's confidential information and Consultant's confidential information is collectively referred to as "Confidential Information." Each party shall use Confidential Information of the other party only in furtherance of the purposes of this Agreement and shall not disclose such Confidential Information to any third party without the other party's prior written consent, which consent shall not be unreasonably withheld. Each party agrees to take reasonable measures to protect the confidentiality of the other party's Confidential Information and to advise their employees of the confidential nature of the Confidential Information and of the prohibitions herein.

Notwithstanding anything to the contrary contained herein, neither party shall be obligated to treat as confidential any information disclosed by the other party (the "Disclosing Party") which: (1) is rightfully known to the recipient prior to its disclosure by the Disclosing Party; (2) is released by the Disclosing Party to any other person or entity (including governmental agencies) without restriction; (3) is independently developed by the recipient without any reliance on Confidential Information; or (4) is or later becomes publicly available without violation of this Agreement or may be lawfully obtained by a party from any non-party. Notwithstanding the foregoing, either party will be entitled to disclose Confidential Information of the other to a third party as may be required by law, statute, rule or regulation, including subpoena or other similar form of process, provided that (without breaching any legal or

regulatory requirement) the party to whom the request is made provides the other with prompt written notice and allows the other party to seek a restraining order or other appropriate relief. Subject to Consultant's confidentiality obligations under this Agreement, nothing herein shall preclude or limit Consultant from providing similar services for other clients.

Notwithstanding the foregoing, either party will be entitled to disclose Confidential Information of the other to a third party as may be required by law, statute, rule or regulation, including subpoena or other similar form of process, provided that (without breaching any legal or regulatory requirement) the party to whom the request is made provides the other with prompt written notice and allows the other party to seek a restraining order or other appropriate relief. Subject to Consultant's confidentiality obligations under this Agreement, nothing herein shall preclude or limit Consultant from providing similar services for other clients.

Neither the City nor Consultant will be liable to the other for inadvertent or accidental disclosure of Confidential Information if the disclosure occurs notwithstanding the party's exercise of the same level of protection and care that such party customarily uses in safeguarding its own proprietary and confidential information.

Notwithstanding anything to the contrary in this Agreement, the City will own as its sole property all written materials created, developed, gathered, or originally prepared expressly for the City and delivered to the City under the terms of this Agreement (the "Deliverables"); and Consultant shall own any general skills, know-how, expertise, ideas, concepts, methods, techniques, processes, software, or other similar information which may have been discovered, created, developed or derived by Consultant either prior to or as a result of its provision of services under this Agreement (other than Deliverables). Consultant's working papers and Consultant's Confidential Information (as described herein) shall belong exclusively to the Consultant. City shall have a non-exclusive, non-transferable license to use Consultant's Confidential Information for City's own internal use and only for the purposes for which they are delivered to the extent that they form part of the Deliverables.

## **15.01 WARRANTIES**

Consultant represents that all services performed hereunder shall be performed consistent with generally prevailing professional or industry standards, and shall be performed in a professional and workmanlike manner. Consultant shall re-perform any work not in compliance with this representation.

## **16.01 LIMITATION OF LIABILITY**

Should any of Consultant's services not conform to the requirements of the City or of this Agreement, then and in that event the City shall give written notification to Consultant; thereafter, (a) Consultant shall either promptly re-perform such services to the City's satisfaction at no additional charge, or (b) if such deficient services cannot be cured within the cure period set forth herein, then this Agreement may be terminated for default.

In no event will Consultant be liable for any loss, damage, cost or expense attributable to negligence, willful misconduct or misrepresentations by the City, its directors, employees or agents.

In no event shall Consultant be liable to the City, by reason of any act or omission relating to the services provided under this Agreement (including the negligence of Consultant), whether a claim be in tort, contract or otherwise, (a) for any consequential, indirect, lost profit, punitive, special or similar damages relating to or arising from the services, or (b) in any event, in the aggregate, for any amount in excess of the total professional fees paid by the City to Consultant under this Agreement, except to the extent determined to have resulted from Consultant's gross negligence, willful misconduct or fraudulent acts relating to the service provided hereunder.

#### **17.01 INDEMNIFICATION**

Consultant and the City each agree to indemnify, defend and hold harmless the other from and against amounts payable under any judgment, verdict, court order or settlement for death or bodily injury or the damage to or loss or destruction of any real or tangible property to the extent arising out of the indemnitor's negligence in the performance of this Agreement.

Consultant agrees to indemnify, defend and hold harmless the City from and against any and all amounts payable under any judgment, verdict, court order or settlement for Third Party claims of infringement of any trade secrets, copyrights, trademarks or trade names alleged to have occurred and arising from the deliverables provided by Consultant to the City in connection with the performance of this Agreement. Should the City's use of such deliverables be determined to have infringed, Consultant may, at its option: (i) procure for the City the right to continue using such deliverables provided or (ii) replace or modify them to make their use non-infringing while yielding substantially equivalent results. If neither of the above options is or would be available on a basis that is commercially reasonable, then Consultant may terminate this Agreement, the City shall return such deliverables provided, and Consultant will refund to the City the fees paid for the deliverables provided. This infringement indemnity does not cover claims arising from the combination of such deliverables with products or services not provided by Consultant; the modification of such deliverables by any person other than Consultant; deliverables complying with or based upon (1) designs provided by or at the direction of the City or (2) specifications or other information provided by or at the direction of the City; or use of systems, materials or work performed in a manner not permitted hereunder or by another obligation of the City to Consultant.

The indemnities in this section are contingent upon: (1) the indemnified party promptly notifying the indemnifying party in writing of any claim which gives rise to a claim for indemnification hereunder; (2) the indemnifying party being allowed to participate in the defense and settlement of such claim; and (3) the indemnified party cooperating with all reasonable requests of the indemnifying party (at the indemnifying party's expense) in defending or settling a claim. The indemnified party shall have the right, at its option and expense, to participate in the defense of any suit or proceeding through counsel.

## **18.01 ASSIGNMENT AND DELEGATION**

The parties each hereby bind themselves, their successors, assigns and legal representatives to each other with respect to the terms of this Agreement. Neither party may assign any rights or delegate any duties under this Agreement without the other party's prior written approval, which approval shall not be unreasonably withheld.

## **19.01 LOCAL, STATE AND FEDERAL TAXES**

Consultant shall pay all income taxes, and FICA (Social Security and Medicare taxes) incurred while performing services under this Agreement. The City will not do the following:

- (1) Withhold FICA from Consultant's payments or make FICA payments on its behalf;
- (2) Make state and/or federal unemployment compensation contributions on Consultant's behalf; or
- (3) Withhold state or federal income tax from any of Consultant's payments.

If requested, the City shall provide Consultant with a certificate from the Texas State Comptroller indicating that the City is a non-profit corporation and not subject to State of Texas Sales and Use Tax.

## **20.01 COMPLIANCE WITH LAWS, CHARTER AND ORDINANCES**

A. Consultant, its consultants, agents, employees and subcontractors shall use best efforts to comply with all applicable federal and state laws, the Charter and Ordinances of the City of Round Rock, as amended, and with all applicable rules and regulations promulgated by local, state and national boards, bureaus and agencies. Consultant shall further obtain all permits, licenses, trademarks, or copyrights required in the performance of the services contracted for herein, and same shall belong solely to the City at the expiration of the term of this Agreement.

B. In accordance with Chapter 2270, Texas Government Code, a governmental entity may not enter into a contract with a company for goods and services unless the contract contains written verification from the company that it: (1) does not boycott Israel; and (2) will not boycott Israel during the term of this contract. The signatory executing this Agreement on behalf of Consultant verifies Consultant does not boycott Israel and will not boycott Israel at any term of this Agreement.

## **21.01 FINANCIAL INTEREST PROHIBITED**

Consultant covenants and represents that Consultant, its officers, employees, agents, consultants and subcontractors will have no financial interest, direct or indirect, in the purchase or sale of any product, materials or equipment that will be recommended or required hereunder.

## **22.01 DESIGNATION OF REPRESENTATIVES**

The City hereby designates the following representative authorized to act in its behalf with regard to this Agreement:

Gary Hudder, Transportation Director  
City of Round Rock  
2008 Enterprise Drive  
Round Rock, TX 78664  
(512) 218-7044

Consultant hereby designates the following representative authorized to act in its behalf with regard to this Agreement:

Howard Luxhoj, PE  
Transmap Corporation  
5030 Transamerica Drive  
Columbus, OH 43228

## **23.01 NOTICES**

All notices and other communications in connection with this Agreement shall be in writing and shall be considered given as follows:

- (1) When delivered personally to recipient's address as stated herein; or
- (2) Three (3) days after being deposited in the United States mail, with postage prepaid to the recipient's address as stated in this Agreement.

### **Notice to Consultant:**

Transmap Corporation  
5030 Transamerica Drive  
Columbus, OH 43228

### **Notice to City:**

City Manager, City of Round Rock  
221 East Main Street  
Round Rock, TX 78664

### **AND TO:**

Stephan L. Sheets, City Attorney  
309 East Main Street  
Round Rock, TX 78664

Nothing contained in this section shall be construed to restrict the transmission of routine communications between representatives of the City and Consultant.

#### **24.01 APPLICABLE LAW; ENFORCEMENT AND VENUE**

This Agreement shall be enforceable in Round Rock, Texas, and if legal action is necessary by either party with respect to the enforcement of any or all of the terms or conditions herein, exclusive venue for same shall lie in Williamson County, Texas. This Agreement shall be governed by and construed in accordance with the laws and court decisions of Texas.

#### **25.01 EXCLUSIVE AGREEMENT**

The terms and conditions of this Agreement, including exhibits, constitute the entire agreement between the parties and supersede all previous communications, representations, and agreements, either written or oral, with respect to the subject matter hereof. The parties expressly agree that, in the event of any conflict between the terms of this Agreement and any other writing, this Agreement shall prevail. No modifications of this Agreement will be binding on any of the parties unless acknowledged in writing by the duly authorized governing body or representative for each party.

#### **26.01 DISPUTE RESOLUTION**

The City and Consultant hereby expressly agree that no claims or disputes between the parties arising out of or relating to this Agreement or a breach thereof shall be decided by any arbitration proceeding, including without limitation, any proceeding under the Federal Arbitration Act (9 USC Section 1-14) or any applicable state arbitration statute.

#### **27.01 SEVERABILITY**

The invalidity, illegality, or unenforceability of any provision of this Agreement or the occurrence of any event rendering any portion of provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of this Agreement. Any void provision shall be deemed severed from this Agreement, and the balance of this Agreement shall be construed and enforced as if this Agreement did not contain the particular portion of provision held to be void. The parties further agree to amend this Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire Agreement from being void should a provision which is of the essence of this Agreement be determined void.

#### **28.01 STANDARD OF CARE**

Consultant represents that it is specially trained, experienced and competent to perform all of the services, responsibilities and duties specified herein and that such services, responsibilities and duties shall be performed, whether by Consultant or designated subconsultants, in a manner acceptable to the City and according to generally accepted business

practices.

## **29.01 GRATUITIES AND BRIBES**

City, may by written notice to Consultant, cancel this Agreement without incurring any liability to Consultant if it is determined by City that gratuities or bribes in the form of entertainment, gifts, or otherwise were offered or given by Consultant or its agents or representatives to any City Officer, employee or elected representative with respect to the performance of this Agreement. In addition, Consultant may be subject to penalties stated in Title 8 of the Texas Penal Code.

## **30.01 RIGHT TO ASSURANCE**

Whenever either party to this Agreement, in good faith, has reason to question the other party's intent to perform hereunder, then demand may be made to the other party for written assurance of the intent to perform. In the event that no written assurance is given within the reasonable time specified when demand is made, then and in that event the demanding party may treat such failure an anticipatory repudiation of this Agreement.

## **31.01 MISCELLANEOUS PROVISIONS**

**Time is of the Essence.** Consultant agrees that time is of the essence and that any failure of Consultant to complete the services for each phase of this Agreement within the agreed project schedule may constitute a material breach of this Agreement. Consultant shall be fully responsible for its delays or for failures to use reasonable efforts in accordance with the terms of this Agreement. Where damage is caused to City due to Consultant's failure to perform in these circumstances, City may withhold, to the extent of such damage, Consultant's payments hereunder without a waiver of any of City's additional legal rights or remedies. City shall render decisions pertaining to Consultant's work promptly to avoid unreasonable delays in the orderly progress of Consultant's work.

**Force Majeure.** Notwithstanding any other provisions hereof to the contrary, no failure, delay or default in performance of any obligation hereunder shall constitute an event of default or breach of this Agreement, only to the extent that such failure to perform, delay or default arises out of causes beyond control and without the fault or negligence of the party otherwise chargeable with failure, delay or default; including but not limited to acts of God, acts of public enemy, civil war, insurrection, riots, fires, floods, explosion, theft, earthquakes, natural disasters or other casualties, strikes or other labor troubles, which in any way restrict the performance under this Agreement by the parties.

**Section Numbers.** The section numbers and headings contained herein are provided for convenience only and shall have no substantive effect on construction of this Agreement.

**Waiver.** No delay or omission by either party in exercising any right or power shall impair such right or power or be construed to be a waiver. A waiver by either party of any of the covenants to be performed by the other or any breach thereof shall not be construed to be a

waiver of any succeeding breach or of any other covenant. No waiver of discharge shall be valid unless in writing and signed by an authorized representative of the party against whom such waiver or discharge is sought to be enforced.

**Multiple Counterparts.** This Agreement may be executed in multiple counterparts, which taken together shall be considered one original. The City agrees to provide Consultant with one fully executed original.

IN WITNESS WHEREOF, the parties have executed this Agreement on the dates hereafter indicated.

**City of Round Rock, Texas**

By: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date Signed: \_\_\_\_\_

**For City, Attest:**

By: \_\_\_\_\_  
Sara L. White, City Clerk

**For City, Approved as to Form:**

By: \_\_\_\_\_  
Stephan L. Sheets, City Attorney

**Transmap Corporation**

By: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date Signed: \_\_\_\_\_



January 23rd, 2018

City of Round Rock, Texas  
Attn: Mr. Mike Schurwon, CPPB, CTPM  
221 East Main Street  
Round Rock, TX 78664-5299

**Subject: Best and Final Offer**  
**RFP No. 18-001 Traffic Sign Data Collection Services**

Mr. Schurwon:

Thank you for allowing Transmap to propose our Best and Final Offer. As part of our offer, we have attached pricing for the following items based on the 394-centerline file provided to Transmap by the City of Round Rock;

- Traffic Sign Data Collection
- Additional Value System 5 Pavement
- Optional Pavement Software and Training
- Additional Value

The City asked for Additional Value System 5 Pavement pricing based on our initial Go-To-Meeting. The two items that were not on this sheet were Network Setup and Review and Project Management. Network Setup and Review is the process of taking the City's centerline file and formatting it in the proper Network, Branch, and Sections for loading into MicroPAVER. As part of this task, Transmap will have to "clean" the City's centerline file intersection to intersection, making it pseudo node free. The other task is Project Management, which is priced as our standard rate, which was already listed in Additional Value. These tasks are reflected in the offer.

Another task needed in Pavement Management is Reporting. The task list the City sent back to Transmap in a letter, did not include the Reporting task. In order to achieve a turnkey solution, the Reporting task which includes budget scenarios with maps, is needed. The Pavement Management Practice Definition "Boot Camp" is the task that enables Transmap to perform reporting based on the City's needs and business process.

Transmap is scheduled to drive 394 centerline miles in the City of Round Rock. All tasks are based on the roads and miles scheduled to drive. Roadway infrastructure cannot be

extracted on roads or alleys that are not driven by our vehicle. As part of this offer, we have also sent a printed centerline map and review document. The City needs to sign off on the map because the file will be loaded into the vehicle for mapping purposes.

The City did not list LiDAR or Street Level Orthophotography as items they would like Transmap to deliver. We want to make sure the City is not interested in having delivered LAS and MrSID (street level) files. The pricing for these items is listed in the Additional Value pricing sheet.

The total project cost is \$174,969.81 with Traffic Sign Data Collection and Additional Value System 5 Pavement. If the City agrees to the total project cost Transmap will discount the entire project 3% as a Best and Final Offer. This would bring the project total to \$166,392.83. As part of the BAFO a 5% contingency was requested by the City. The contingency total is \$8,576.98.

Please feel free to call with any questions. I can be contacted at [hluxhoj@transmap.com](mailto:hluxhoj@transmap.com) or on my mobile at (614) 886-4100.

Best regards,



Howard Luxhoj, PE  
President and CEO  
Transmap Corporation

**City of Round Rock, TX  
Traffic Sign Data Collection (Best and Final)**

**1) Sign Data Collection Project**

Task	Description	Comments	Transmap Units	Transmap Price	Total
1a	System 6 Shipping (units = lump sum)	Transmap will ship system 6 to data collection area - setup and testing of system 6 before initial data collection	1	\$1,500.00	\$1,500.00
1b	ON-SIGHT™ Raw Data Collection Includes LIDAR (units = ~centerline miles based on City GIS data)	Raw roadway data and image capture - 360-degree image view of all roadways (ROW) with Ladybug5 Ultra HD panoramic solution. Ground-based LIDAR (100% roadway coverage) - Price includes image delivery and access to web based viewer	394	\$71.00	\$27,974.00
1c	Sign Extraction (units = per sign panel) Rates based on standard attributes	Transmap is a partner with Cityworks and understands the formatting needed to support the integration of signs and poles - Standard attributes include; street name, unique ID, unique ID (street centerline), MUTCD code, daytime condition, facing direction, flashers (yes,no)	11,467	\$2.18	\$24,998.06
1d	Pole Extraction (units = per post) Rates based on standard attributes	Transmap is a partner with Cityworks and understands the formatting needed to support the integration of signs and poles - Standard attributes include; street name, unique ID, unique ID (street centerline), pole type	5,993	\$1.09	\$6,532.37
1e	GIS Integration (units = hours)	Transmap will link all collected assets to the City centerline unique ID and road name so all data is linked for Cityworks integration - If any other GIS formatting is required Transmap may need to add more hours	24	\$99.00	\$2,376.00
1f	Project Management (units = hours)	Standard project management includes managing the personnel assigned to the project, monthly project updates, ArcGIS Online project tracking, kick off meeting, phone support throughout project.	47	\$99.00	\$4,653.00
<i>Subtotal</i>					<b>\$68,033.43</b>

**City of Round Rock, TX  
Additional Value System 5 Pavement (Best and Final)**

**2) Pavement Management**

Task	Description	Comments	Transmap Units	Transmap Price	Total
2a	ON-SIGHT™ Raw Data Collection Includes LiDAR (units = centerline Miles)	Transmap will utilize our Crack Map 3D technology (LCMS) for pavement collection - 100% coverage all through lanes - 360-degree image view of all roadways (ROW) with Ladybug5 Ultra HD solution. Ground-based LiDAR (100% roadway coverage all through lanes) - Price includes image delivery and access to web-based viewer	394	\$37.99	\$14,968.06
2b	Advanced Inspections - 100% Analysis of All Through Lanes (units = lump sum)	Transmap uses an ASTM compliant E950 profilometer. Delivery of Crack Map orthophotography and City-wide rutting in GIS format (All Through Lanes)	1	\$7,985.00	\$9,895.00
2c	ASTM D6433 Compliant Network Level Pavement Condition Index (PCI) Rating (units = management sections)	Detailed surface distress analysis - Transmap uses ASTM D6433 network level analysis - Crack Map 3D approach - Pavement width included - Price includes field verification (walkout)	7,279	\$6.47	\$47,095.13
2d	MicroPAVER Scope of Work				
	MicroPAVER Load (units = lump sum)	Formatting pavement sample data and centerline file for mass load into MicroPAVER using scripts - MicroPAVER is the only system that is the official PCI (ASTM D6433) calculation	1	\$2,250.00	\$2,250.00
	MicroPaver Network Setup and Review (units = hours)	Transmap will review the City's centerline file and set up the required network for loading into MicroPAVER (this includes linking PCI data to Esri centerline). Transmap will clean centerline file so the file is intersection to intersection pseudo node free	22	\$108.00	\$2,376.00
	MicroPAVER Software (units = software)	Transmap will purchase MicroPAVER software for the City. This pricing is based on the City having at least one registered APWA member. This is a download that comes with 2 installations.	1	\$995.00	\$995.00
	On-Site MicroPAVER I Training (units = days) Expenses included	Transmap will provide MicroPAVER I training - This is a 2-day class that goes over every phase of MicroPAVER work flow.	2	\$3,200.00	\$6,400.00
2e	Pavement Management Practice Definition "Boot Camp" (price is lump sum)	Transmap will meet with the City to review maintenance/rehabilitation activities, analysis procedures, and collect any existing information on roadways (ADT data, construct dates, maintenance dates, etc.) Prepare budget and CIP plans	1	\$3,500.00	\$3,500.00
2f	Reporting (units = hours)	Transmap will put together written/tabular and GIS map data to support traditional preventative maintenance pavement reporting. Budget scenarios with actual dollar amounts per M&R activity - pavement performance curve included	44	\$137.00	\$6,028.00
2g	Transmap Project Management (units = hours)	Standard project management includes staff allocation, project tracking website, phone calls, overall project coordination and updates - Kick-off meeting	101	\$99.00	\$9,999.00
<b>Subtotal</b>					<b>\$103,506.19</b>

**Transmap Corporation**

**City of Round Rock, TX  
5% Contingency Best and Final**

January 23, 2018

**3) 5% Contingency**

---

1) Sign Total	\$68,033.43
2) Pavement Total	\$103,506.19
3) Contingency (5% of 1+2)	\$8,576.98
Less Discount (3% of 1+2)	<u>\$5,146.79</u>
<i>Total Project Cost</i>	<b>\$174,969.81</b>



## City of Round Rock, TX - Centerline Breakdown

Total Centerline miles: 393.571 miles

### Query Used:

"MAINT\_AUTH" = 'ROUND ROCK' AND  
"STATUS" = 'OPEN'

Field

Shape\_STLe

### Statistics:

Count: 4390  
Minimum: 7.814853  
Maximum: 6084.273666  
Sum: 2078055.22102  
Mean: 473.361098  
Standard Deviation: 406.482743  
Nulls: 0

Frequency Distribution

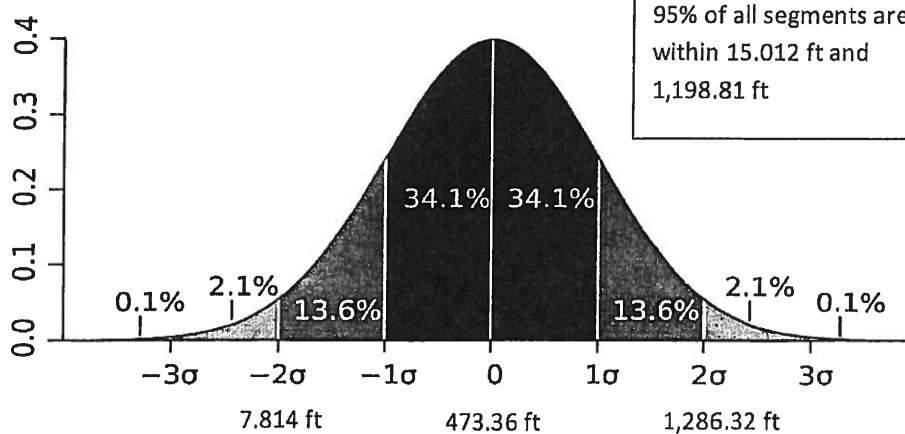
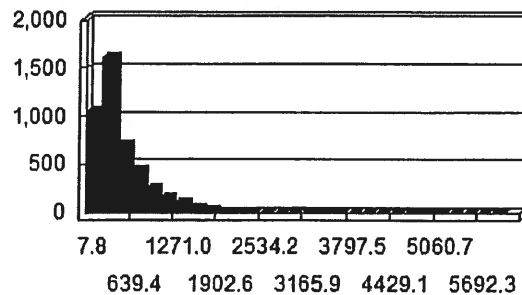


Exhibit "A"  
Proposal

# City of Round Rock TX 2018 Basemap Review



Approved By: \_\_\_\_\_

Date: \_\_\_\_\_  
(Please Sign in Blue Pen)

Total Centerline Miles: 393.571 miles

— Scheduled To Drive  
— Other Roads

Exhibit "A"  
Proposal



0 0.5 2 Miles

**trans map**

5030 Transamerica Drive | Columbus, OH 43228  
Tel: (614) 481-0729 | Fax: (614) 481-0117  
www.TRANSMAP.com

Prepared By: Cigro-Louis Bada  
Reviewed: Round Rock, ESRI  
Created On: 01/16/2018

## Letter of Transmittal

roadway inventory • asset management • integration



December 1st, 2017

City of Round Rock, TX

Attn: Mr. Mike Schurwon, CPPB, CTPM

221 East Main Street, Round Rock, TX 78664-5299

### **RE: Traffic Sign Data Consulting Services, RFP No. 18-001**

Mr. Schurwon:

Thank you for allowing Transmap to propose our solution. We are pleased to present the City of Round Rock with our response to your Request for Proposal. Transmap has read and understands the tasks described in the City of Round Rock's RFP. We have **no conflict of interest** with our clients because we do not sell sign sheeting to supplement our data collection (differentiating us from material suppliers). **We own our own equipment, so a sub-contractor is not needed.** Outlined below are a few key features that you will find beneficial in qualifying Transmap as the best provider for your sign data collection consulting services:

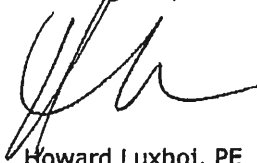
- **Local Texas Experience** - City of Baytown, City of Corpus Christi, City of Killeen, City of Midland, City of El Paso, City of Stephenville, City of Conroe, City of Schertz, City of Sugar Land - Roadway asset management is all we do - Excellent sign project references - FHWA and TXMUTCD compliance experience (nighttime assessments)
- **Team** - Core team has over 21 years of experience - PhDs, PEs, and GISPs on staff - GIS-centric asset management solution

Exhibit "A"  
Proposal

- **Transmap/Cityworks Partnership** - Cityworks Strategic Partner for over 12 years - 2015 Cityworks AMS Training completion – *Project Manager has experience formatting and integrating Texas sign data into Cityworks*
- **ArcGIS Online** - 20 Year Esri Public Works Solutions Partner - Collector Apps - Web & map-based GIS reporting - Easy to share and update data – Training
- **Open Source** - With an increasingly changing software environment, Transmap's open source policy allows for data to be seamlessly implemented into *any software system* - **Transmap is your total solution provider from data collection to maintenance planning**
- **Technology Focused** - **Dual systems** (Ladybug5 30MP + HD LIDAR, ~1 million points/sec, **8,000 x 4,000** pixel resolution) - Street Level Orthophotography

Please do not hesitate to call with any questions or for further assistance. As President and CEO, I am authorized to make representations for Transmap Corporation. For a digital copy of our response and to see a video, please log on to [tmap.pro/RR](http://tmap.pro/RR).

Best regards,



Howard Luxhoj, PE

President and CEO

Transmap Corporation

**Authorized Contact:**

**Howard Luxhoj, PE**

**President and CEO**

**[hluxhoj@transmap.com](mailto:hluxhoj@transmap.com)**

**614-886-4100 (mobile)**

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Chicago, IL 60654

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**Attachment A**

**Attachment B**

## Project Approach to Work Plan & Scope of Work

### Introduction

Our approach to the project utilizes our mobile mapping technology and our years of experience with MUTCD, Esri (GIS), and Cityworks to provide the City with the best sign management solution. Transmap has read and understands the required attributes for each sign and pole listed in the City of Round Rock's RFP. We have knowledge of TX MUTCD codes, through our vast Texas sign project experience. Transmap will perform a sign and pole inventory that will include locating and classifying the full inventory of all City of Round Rock owned or maintained traffic signs and poles inside the city limits. *This will include all ground mounted, signal mounted and gantry mounted signs. The pole inventory will include the coordinates of the pole, classification of pole type (MUTCD ID number) attached to each pole, and required Cityworks attribution.* **All classifications of the City's signs will be captured. Transmap will update the City's current sign inventory data.** The following information describes our approach, mobile-mapping technology and extraction tools in detail.

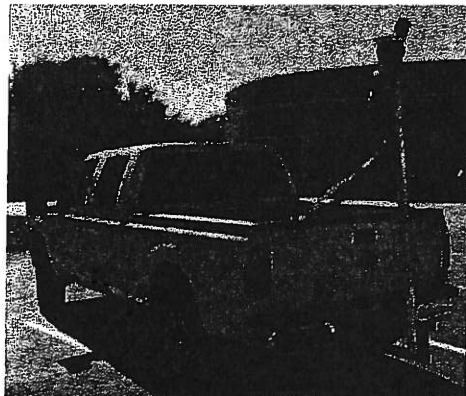
**Cityworks**  
Partner Network

 **esri**  
Public Works  
PARTNER

### System 6 Mobilization

Once the Notice to Proceed is given to Transmap, the System 6 mobile mapping vehicle will begin its mobilization to the City of Round Rock. **Transmap can complete this project in under 43 days.**

Our mobile mapping personnel work as a two-man team in the field on ten-day shifts. Our team works closely with the customer to make sure your needs are met. Our project kick-off meeting will be part of our mobilization. Transmap has performed a centerline review from the City's GIS file, found on your website (*centerline review document is clipped to the back cover*).



Having an accurate centerline file loaded into the mapping vehicle, ensuring all City roads are collected, is necessary for a successful project.

- **Total City Miles - 622.762**
- **Query used "Road\_Class" = City street**

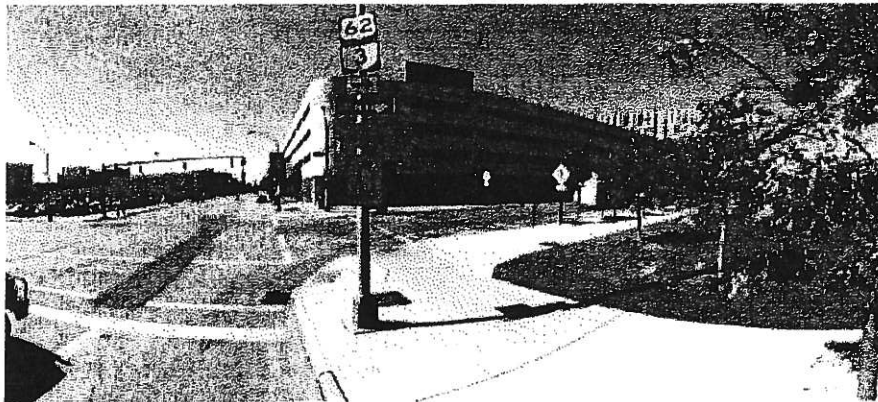
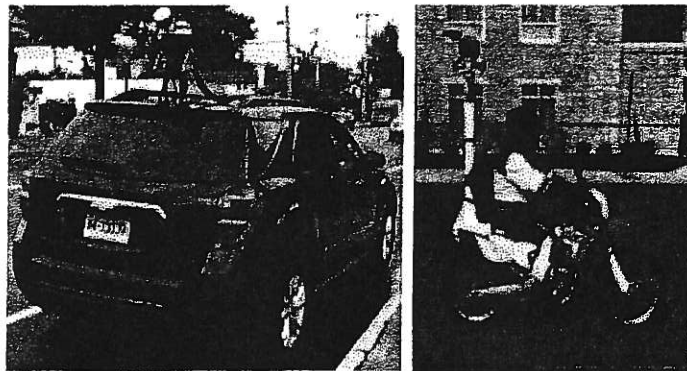
#### **Project Management: Kick-Off Meeting**

Transmap will hold a kick-off meeting at the City of Round Rock with the City's Project Manager and other staff members before the project begins. This meeting will help summarize the understanding of the project as negotiated in the contract. Additional meetings will be scheduled as needed when reaching major milestones of the project.

#### **System 6 - The ON-SIGHT™ Mobile Mapping System (Dual Systems)**



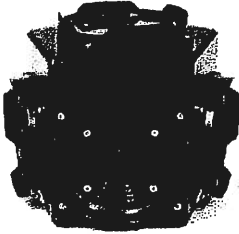
**Right-of-Way (ROW) images on both sides of each roadway will be captured for a 360-degree view of the road.**

- 100% coverage of every through lane
- Ladybug5 camera system - Panoramic Images
- 8,000 x 4,000 pixel resolution
- Street level orthophotography



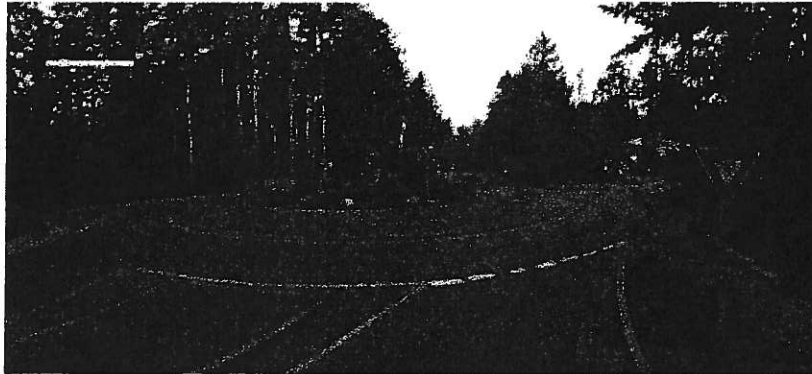
**Ladybug5 View  
Exhibit "A"  
Proposal**

The following table includes a list of technical specifications for *Transmap's System 6*. **All equipment is owned and operated by Transmap.** We have multiple vehicles in our fleet and can complete the City's desired timeline.

<p><b>Transmap's System 6 Introduction</b></p> <ul style="list-style-type: none"> <li>• Allows for the data collection on roads and areas that are not usually accessible with traditional mapping vehicles, such as trails, alleys, and bikeways</li> <li>• Ladybug5</li> <li>• Velodyne LIDAR</li> <li>• Sub-meter GPS absolute accuracy (1-2 feet)</li> </ul>	
<p><b>High Definition Reference LiDAR (Velodyne)</b></p> <ul style="list-style-type: none"> <li>• Collects ~1,000,000 points of data every second</li> <li>• Used to determine roadway asset locations and characteristics.</li> </ul> <p style="text-align: right;"><b>Velodyne<sup>®</sup> LiDAR</b></p>	
<p><b>Ladybug5 Camera Systems</b></p> <ul style="list-style-type: none"> <li>• 30 MP resolution (8,000 x 4,000 pixel resolution)</li> <li>• ROW images on both sides of each roadway</li> <li>• 360-degree view of the road</li> <li>• 100% coverage of every through lane</li> <li>• Panoramic view</li> <li>• Condition assessment</li> </ul> <p style="text-align: right;"> <small>POINT GREY 100%</small>  <b>LADYBUG5</b>  <small>100% PANORAMIC CAMERA MAPPING SYSTEM</small> </p>	

#### **ON-SIGHT™ HD Imaging Deliverable**

**Transmap's images are open source.** The Ladybug Images, as a deliverable, provide our customers with our **panoramic 8,000 x 4,000 pixel resolution images**. Our online panoramic image viewer is pictured.



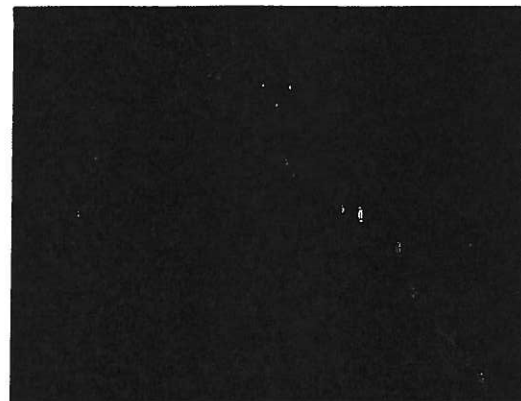
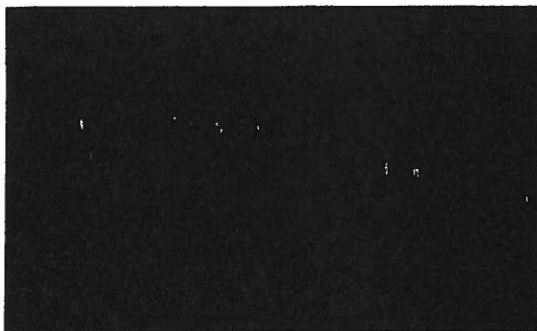
**Panoramic Image Viewer**

#### **QC for ON-SIGHT™ HD Imaging**

Transmap performs daily quality control checks for all ON-SIGHT™ HD data. Each day, the GPS data is processed, reviewed, and backed up. Image quality is reviewed to ensure the required condition assessment and sign identification can be met. If images are deemed in poor condition, they will be re-collected.

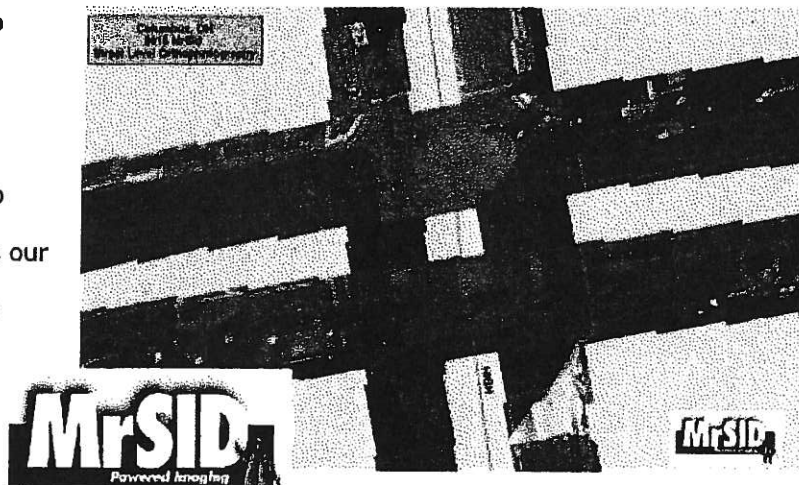
#### **High Definition LiDAR (Velodyne) Data**

- High definition LIDAR sensor
- ~1,000,000 points of data every second
- Used to determine sign and pole locations and characteristics
- Yellow and green depicted in images represents reflectivity of signs
- LIDAR can be a deliverable to the City



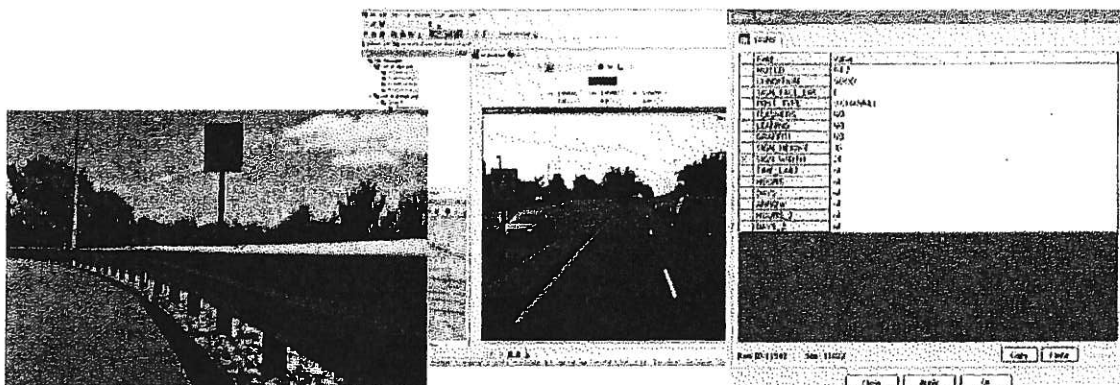
### **Street Level Orthophotography**

We have the unique capability to turn our panoramic images into street level orthophotography. We use street level orthophotography as a tool to help extract attribution and location of assets. With our partner LizardTech, Transmap uses GeoExpress to compress our street level orthos into MrSID files, which saves storage space, time, and money.



### **Citywide Sign Inventory: Manage Your Compliance**

Once the LIDAR and images are processed, the attribution process begins. Through our technology and our expert employees, Transmap can meet and exceed the data requirements for the condition assessment of the City's signs and poles. Transmap understands that all signs must be in compliance with the current edition of the **Manual on Uniform Traffic Control Devices (MUTCD)** and **Texas Manual on Uniform Traffic Control Devices (TXMUTCD)**. The in-house sign and pole extraction software allows our technicians to analyze the sign and post, while our backend database has dropdown fields to eliminate "fat finger" mistakes. Transmap is able to meet and exceed the required sign and pole attribution that the City requested. The image and LIDAR data will include each travel direction for the roadways inventoried.



Standard Transmap attributions include:

- Sign identification number
- Sign style and type
- Location (GPS coordinates)
- Street name
- Unique ID (Street centerline)
- Pole type
- Daytime condition rating
- MUTCD code
- Facing direction
- Flashers (yes, no)

Transmap will provide the City with the additional requested attributes, mentioned in the City's RFP, which include:

- Dimensions
- Date of Installation (Supplied by City)

#### **Quality Assurance/Quality Control**

With more than 21 years of experience and a highly trained GIS staff, Transmap has mastered the quality assurance process. Our highly regarded quality control methodology ensures that our customers receive a quality product that exceeds their expectations.

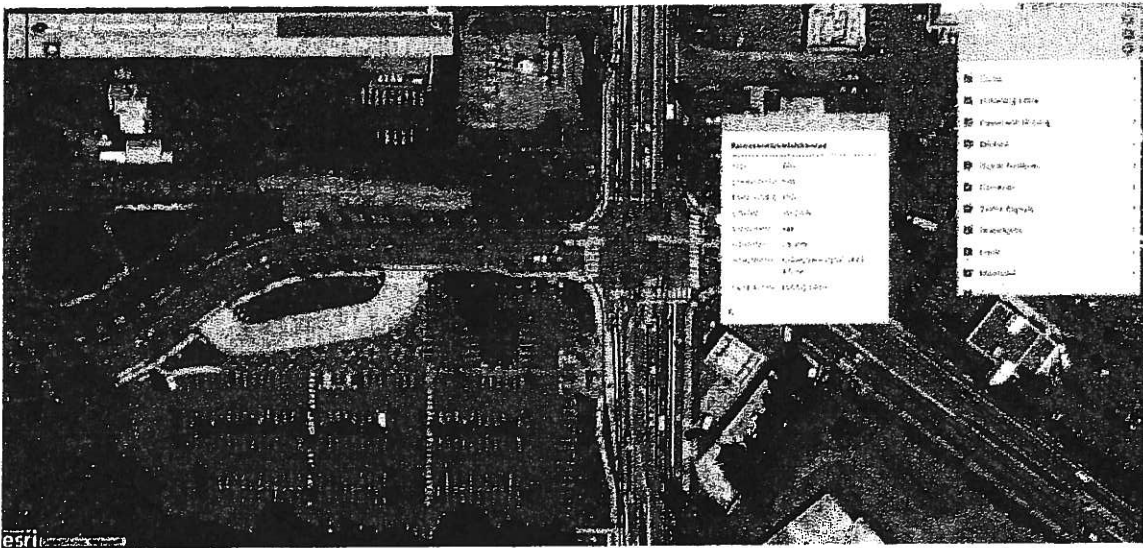
- Quality Control (QC) performed on 20% of signs by senior GIS staff
- Location QC review with orthophotography
- Database review by GIS analyst
- Built in GIS tools to look for blank or incomplete attributes

### ArcGIS Online Data Review

Transmap will set up ArcGIS Online, so the City can review sign data and images before delivery. All image locations, with external Transmap hosted image links, will be available for the City to view.



ArcGIS Online



**ArcGIS Online Roadway Asset Viewer**

### GIS Traffic Sign Geodatabase: ArcGIS Online

Everything Transmap produces is in an Esri format. As a standard, Transmap provides a delivered ArcGIS file geodatabase of assets (signs) and of all image locations with links to those images, so the City can view data on their internal GIS system.

### Sign Inventory and Management System

Transmap will assist the City with their ArcGIS online environment. As part of this system, we suggest the use of Esri's ArcGIS Collector App. The collected signs will be set up so they can be viewed through mobile devices, desktops, servers, and the web. Transmap will format and set up all measured signs in ArcGIS Online, and the City of Round Rock will have the ability to



ArcGIS Online



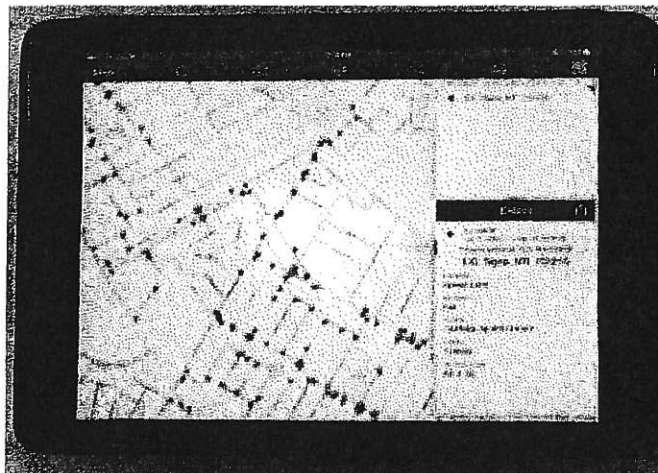
edit certain fields to update the sign data. Our data will seamlessly integrate with the City's GIS system. Transmap uses ArcGIS Online as a web viewer for the Image data, and will migrate image links to the City's local GIS servers City-owned ArcGIS Online.

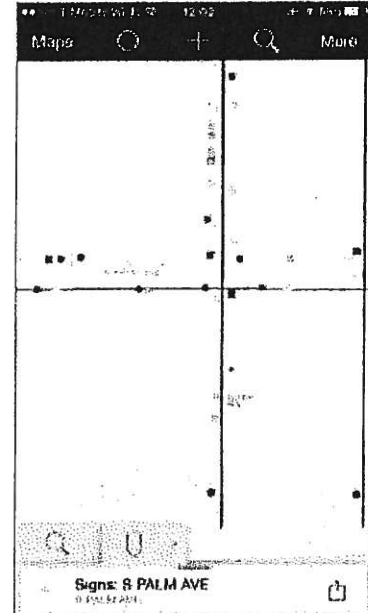
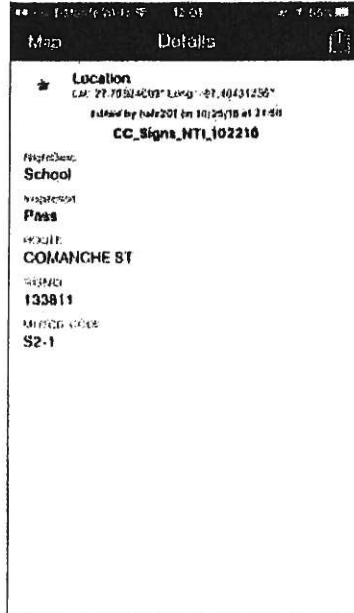
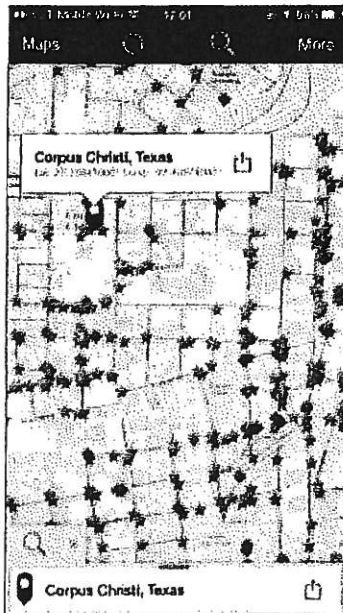
***"This is fantastic...Transmap is doing some amazing stuff." - David Totman, Esri's Public Works Industry Manager.***



#### **Recommended Mobile Field Device**

Transmap recommends that the City uses the ArcGIS Online mobile collector app. This app can be configured, so that field personnel can edit certain fields and have the ability for drop down and check box fields. This will help eliminate mistakes in the field. The preferred mobile device is an iPad because of the touch screen ease of use. ***Also, the iPad has the ability to provide the City with sub-meter GPS accuracy.***





### ArcGIS Online Collector App

#### ArcGIS Online Training

Since Transmap is a **20-year business/development partner with Esri**, we will review best practices on the structure and set up of ArcGIS Online with the City. Transmap will be available to support the City with any questions regarding the system. At the conclusion of this project, additional training and support can be provided on an ongoing basis to continue assisting the City for years to come. A successful GIS and Asset Management system will provide many benefits to the City.



## Cityworks Asset Management Software

Transmap understands the City utilizes Cityworks as their asset management software. **We can integrate any**

**collected assets into**

**Cityworks (Killeen, TX**

**signs pictured). Transmap**

**is a total solution provider**

**and has been a Cityworks**

**Strategic Partner for over**

**12 years.** Our key personnel

have completed 2015

Cityworks AMS training. We

are a Silver Sponsor every

year at the Cityworks User Conference.



*"Transmap has been a Cityworks Strategic Partner for over 12 years. Their continuing support at our User Conferences and User Group Meetings is greatly appreciated. Cityworks and Transmap have completed several successful pavement and asset management projects together and their data integrates seamlessly with Cityworks."*

**"Transmap is the only Cityworks Strategic Partner of its kind for pavement and asset management data collection."**

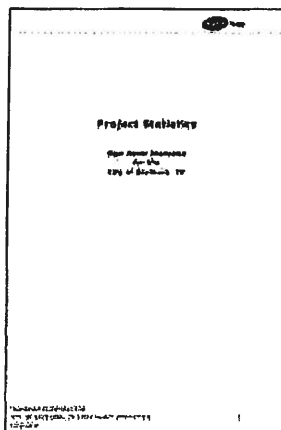
**- Brent Wilson, Vice President of Sales**



### Standard Reporting

Transmap can customize reporting to fit the client's needs. Our reporting is **both tabular and map-based**. We are a GIS company and believe that the best way to express the data is in full size, **easy-to-interpret GIS maps with colors that represent good, fair, or poor conditions**.

As requested in the City's RFP, Transmap will recommend a sign replacement plan for the City.



Sign Post Type		
Attribute Description	Count	%
All Post Types	9928	100%
Post-Arm	339	3.415%
Post-Arm Pole	129	1.299%
Round Post	892	8.985%
Span Wire	106	1.085%
Steel Pole	272	2.74%
U-Channel	154	1.551%
Unit Strut	7924	79.815%
Wooden Pole	38	0.383%
Wooden Post	24	0.242%
Other	40	0.403%

Sign Condition		
Attribute Description	Count	%
All Conditions	9541	96.102%
Good	153	1.541%
Fair	80	0.695%
Poor	27	0.272%
Graffiti	5	0.05%
Missing	133	1.34%
Not Visible		

#### City of Baytown, TX Sign Statistics

101374	5175	S4-1A	HUSTLIN HORNET DR	DEBRA LN	WALDRON RD	10465	82	Fair	Replace
100185	4590	W1-1L	CABANA EAST ST	CABANA NORTH AVE	COMMODORES DR	10147	88	Missing	Replace
101376	5177	S5A-2-CG	HUSTLIN HORNET DR	DEBRA LN	WALDRON RD	10465	82	Fair	Replace
100187	4592	W14-1	CABANA NORTH AVE	DEAD END	CABANA EAST ST	P0043	88	Fair	Replace
100180	4593	W1-1R	CABANA NORTH AVE	CABANA EAST ST	SWORDFISH ST	10146	88	Fair	Replace
100189	4594	W13-1	CABANA NORTH AVE	CABANA EAST ST	SWORDFISH ST	10148	88	Fair	Replace
101380	5181	W4-2	HUSTLIN HORNET DR	DEBRA LN	WALDRON RD	P00253	82	Missing	Replace
100195	4595	R8-3A	CABANA EAST ST	COMMODORES DR	CABANA NORTH AVE	10161	88	Fair	Replace
101388	5187	W-Other	GLENOAK	SOUTH SEA DR	WALDRON RD	10469	82	Missing	Replace

CorpusNightTime\_FailedSigns2\_TableToExcel

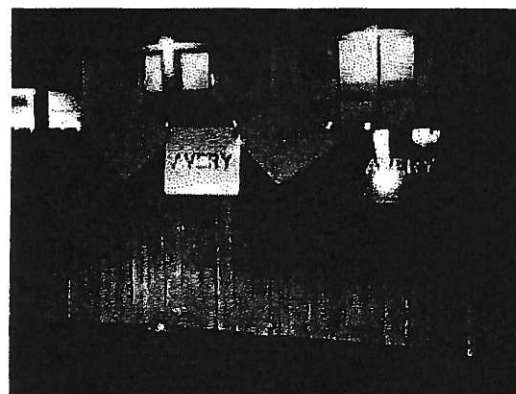
#### City of Corpus Christi, TX Nighttime Failed Signs

##### Communication and Project Management

Transmap will provide the City of Round Rock's Project Manager with weekly, monthly, and milestone reports, as well as Informal communications on a day-to-day or every-other-day basis. We have a great set of references who will agree that our specifications are the most valuable of all. These specifications have a tremendous impact on our customers getting what they desire.

### Optional Nighttime Retroreflectivity Assessment

Transmap is able to use the MUTCD nighttime visual inspection requirements to assess the retroreflectivity of each sign (or specific signs requested by the City) along with a daytime condition assessment. Transmap follows the usual methods (Calibration Signs Procedure and Consistent Parameters Procedure) of using a two-person crew of trained personnel to *inspect signs at night*. While one person is driving, the other evaluates the signs and records the information needed. **A retroreflectivity rating of "good" or "replace" will be assigned to each sign inventoried.** Transmap most recently completed nighttime assessments for the City of Killeen,



TX, the City of Corpus Christi, TX, the City of Greenville, NC MPO, the City of Delray Beach, FL, the City of Santa Barbara, CA, the City of Rialto, CA, the City of Rockford, IL, City of Ann Arbor, MI, the City of Shoreline, WA, the City of Bozeman, MT, Allegheny County, PA, and Evansville, IN MPO.



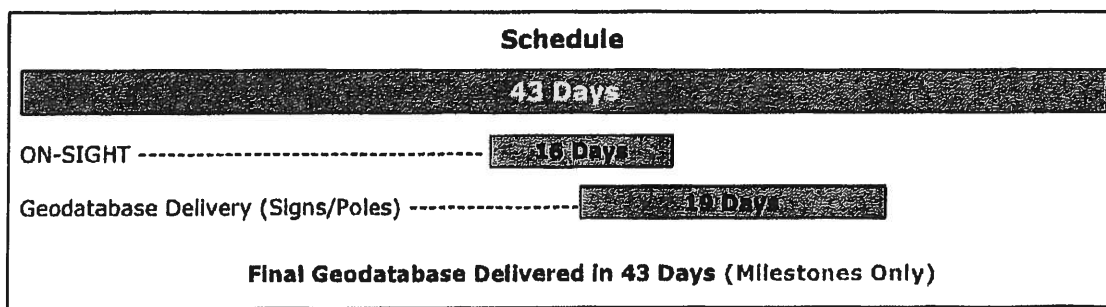
## Project Timeline

Transmap has the unique capability to shift project personnel according to specific timelines. Some of our current projects are long-term, repeat customers who allow us to adjust schedules. Therefore, we will allocate the most qualified technicians to complete this project well within your timeline. Since this type of collection, assessment, and GIS implementation is all Transmap does, we do not foresee any issues, other than weather, that would prevent us

from meeting the City's time schedule.

**Transmap owns and operates its own equipment. If necessary, we can mobilize another vehicle with LIDAR and panoramic cameras to expedite the collection process to meet an aggressive timeline.**

Schedule	
<b>Transmap Corporation</b> <b>Traffic Sign Data Collection</b> <b>Round Rock, TX</b> <b>Day Schedule</b>	
Task	# of Days
Notice to Proceed	1
Project Kick-off Meeting	1
<b>City Staff needs to be part of Kick-off</b>	TBD
System 6 Shipping	2
ON-SIGHT Raw Data Collection	16
Sign Extraction Including QA/QC	19
Pole Extraction Including QA/QC (picked up with signs)	N/A
GIS Integration	3
Geodatabase Delivery	1
<b>ArcGIS Online Setup and Training</b>	2
Transmap Project Management (on-going during project)	
<b>Geodatabase Sign and Pole Delivery in 43 Days</b> *Project will start when notice to proceed is accepted Total sign data collection project will take approximately 2 months, weather and City staff availability permitting. Depending on project start date, Transmap may modify day schedule because of corporate project load. <b>BOLD text represents critical paths that the City needs to be involved in</b>	



## Experience and Qualifications

Transmap has over 23 years of pavement and roadway asset management experience. Our core management staff has been working together for 21 years. *All of our projects are similar in scope to the City of Round Rock's RFP.* Transmap is a national provider of professional, technical, and management support services to the transportation industry.

The focus of Transmap's services is directed towards city-owned and county-owned transportation systems in order to provide the highest quality infrastructure management solutions. Transmap specializes in the mobile data collection, processing, analysis and inventory of roadway assets (e.g., traffic signs).

### Project Manager:

**Craig Schorling, GISP**

### Vice President

**cschorling@transmap.com**

**614-537-6297 (mobile)**

### Transmap's Key Staff

Transmap Team Member	Role	Years of Experience	Degree	Data Collection	Condition Assessment	Esri Integration
Howard Luxton, PE	President and CEO	21	B.S. Environmental Engineering - The Ohio State University	✓	✓	✓
Craig Schorling, GISP	Vice President/Project Manager	24	B.A. Geography/Minor in Business State - University of New York at Albany	✓	✓	✓
Chris Crocker	Operations Manager/Assistant Project Manager	11	B.S. Geographic Information Science - Ohio University	✓	✓	✓
Tony March, PE	Senior Reporting Analyst	44	B.S. Civil Engineering - The Ohio State University	✓	✓	✓
Claire-Louise Bode, MS	GIS Specialist	4	B.S. Geography - The Ohio State University, M.S. Applied Geography - University of Louisville	✓	✓	✓
(9) GIS/Field Technicians	GIS/Field Operations	1-5	A variety of Bachelor degrees including GIS and Geography	✓	✓	✓

### Resumes

The following pages include resumes for the majority of Transmap's Key Staff members.

## Exhibit "A" Proposal

**President and CEO  
Project Principal**



**Howard Luxhoj, PE**

Mr. Luxhoj is the President and CEO of Transmap Corporation and provides extensive engineering and transportation experience. He works to ensure constant communications with the client, sub-consultants, project team members and regulatory agencies from project inception through completion.

He has expert knowledge of GIS products, database tools, asset management databases and commercial asset management systems. He is also well schooled in the requirements pertaining to GASB-34 and NPDES, legacy system databases, project consulting, technical staff for data collection, pavement and asset inventory systems and system integration.

**21 Years of Experience**

**Education and Training**

B.S. Engineering - Environmental

The Ohio State University

MicroPAVER Advanced Training

2011-2014

LTAP Center 2011-2014

**Registrations**

Model Law Engineer (MLE)

NCEES Record #46928

Professional Engineer (FL, OH, NC)

APWA Member - Ohio

FCC - KD8TVB

**Texas Roadway Asset Project Experience**

**City of Midland, TX 2013, 2015, 2017** - Roadway asset (signs) management - Training

**City of Sugar Land, TX 2016** - Roadway asset management

**City of Stephenville, TX 2015** - Roadway asset management

**City of Corpus Christi, TX 2015** - Roadway asset (signs) management - Nighttime sign assessment - Training

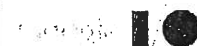
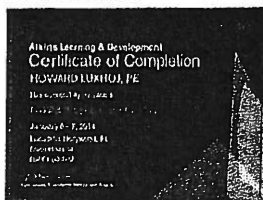
**City of Baytown, TX 2015** - Sign management - Training

**City of Killeen, TX 2013** - Roadway asset (signs) management - Nighttime sign assessment - Training

**City of Conroe, TX 2012** - Roadway asset/pavement management

**City of El Paso, Texas 2001-2011** - Roadway asset management - Training

**City of Schertz, TX 2010** - Roadway asset management - Training



**Exhibit A  
Proposal**

## Vice President



**24 Years of Experience**

**Education and Training**

B.A. Geography

Minor in Business State

University of New York at Albany

2015 Cityworks Administrator

**Training**

LTAP Center 2011-2014

**Registrations**

URISA GISP Certified 2006

URISA Leadership Academy 2008

**Local Council Presentations**

City of Stephenville, TX 2016

City of Killeen, TX 2014

### Craig Schorling, GISP

Mr. Schorling provides Transmap Corporation with sound fundamentals in both GIS project management and client development. He employs his extensive experience with Esri products, database tools, asset management databases, commercial pavement and asset management systems, project consulting, system implementation and training, and customer support to provide project management for many of Transmap's clients. Craig's background includes 14 years of experience in a management capacity and a combined 24 years of experience using and developing GIS tools. He also has experience running the mobile mapping vehicle, pavement and asset collection software and CMMS implementation.

### Texas Roadway Asset Project Experience

**City of Midland, TX 2013, 2015, 2017** - Roadway asset (signs) management - Training

**City of Sugar Land, TX 2016** - Roadway asset management

**City of Stephenville, TX 2015** - Roadway asset management

**City of Corpus Christi, TX 2015** - Roadway asset (signs)

management - Nighttime sign assessment - Training

**City of Baytown, TX 2015** - Sign management - Training

**City of Killeen, TX 2013** - Roadway asset (signs) management -

Nighttime sign assessment - Training

**City of Conroe, TX 2012** - Roadway asset/pavement management

**City of El Paso, Texas 2001-2011** - Roadway asset management

- Training

**City of El Paso, TX 2010** - Roadway asset management - Training



## Operations Manager



### 11 Years of Experience

2015 Cityworks Administrator

Training

QA/QC

Roadway Asset Reporting

Education and Training

B.S. Geographic Information

Science

Ohio University

### Chris Crocker

As Operations Manager, Mr. Crocker has provided presentations and maps of deliverables, involved the client when elaboration was necessary, created project schedules, and used the client's project priorities as the guideline. He has also performed post-processing of GIS data to ensure quality control and appropriated staff to meet goals for timely deliveries. Mr. Crocker has vast experience with running the mobile mapping vehicle, asset collection software, CMMS implementation, training, asset analysis, and QA/QC experience.

### Texas Roadway Asset Project Experience

**City of Midland, TX 2013, 2015, 2017** - Roadway asset (signs) management - Training

**City of Sugar Land, TX 2016** - Roadway asset management

**City of Stephenville, TX 2015** - Roadway asset management

**City of Corpus Christi, TX 2015** - Roadway asset (signs)

management - Nighttime sign assessment - Training

**City of Baytown, TX 2015** - Sign management - Training

**City of Killeen, TX 2013** - Roadway asset (signs) management - Nighttime sign assessment - Training

**City of Conroe, TX 2012** - Roadway asset/pavement management

**City of El Paso, Texas 2001-2011** - Roadway asset management - Training

**City of Schertz, TX 2010** - Roadway asset management - Training

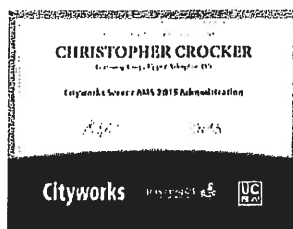


Exhibit A

Proposal



## 4 Years of Experience

Centerline Review  
Street Level Orthophotography  
GIS Client Support  
Asset QA/QC  
Map Based Reporting

## Education

B.S. Geography  
The Ohio State University  
M.S. Applied Geography  
University of Louisville

## Conferences

NC GIS Conference 2017  
NACE 2017  
National APWA/PWA 2017  
Ohio GIS 2017  
Cityworks 2016  
North Carolina APWA 2016

## Claire-Louise Bode, MS

As Transmap's GIS Specialist, Ms. Bode has collected and analyzed distresses and features of many miles of roadway. Utilizing her expert knowledge of GIS products, database tools, asset management databases and commercial asset management systems, Ms. Bode has provided critical support in the development and integration of valuable pavement and asset data. She is in charge of QA/QC of all asset deliveries (signs, signals, linears, etc.) and leads Transmap's team in making GIS and map deliverables.

## GIS Management Experience

- Assists in the production and delivery of detailed maps to customers for roadway asset (sign) reporting
- Creates and analyzes street level orthophotography
- Provides QA/QC support for roadway assets (signs)
- Participates in on-site client meetings and training
- Heads all customer centerline reviews

## Recent Projects

**City of Midland, TX 2017** - Roadway asset management  
**City of Sugar Land, TX 2016** - Roadway asset management  
**City of Baytown, TX 2015** - Roadway asset management  
**City of Palm Bay, FL 2016** - Roadway asset management  
**City of Boca Raton, FL 2016** - Roadway asset management  
**City of Greer, SC 2016** - Roadway asset management  
**City of Sammamish, WA 2016** - Roadway asset management

Exhibit "A"

Proposal

## Proposal Cost

The following section includes Transmap's pricing model and additional value. The tables include tasks, descriptions, and comments. Using our 300 plus customer database with 23 years of data, we calculate the estimate to complete (ETC) for each project.

### City of Round Rock, TX Traffic Sign Data Collection

#### 1) Sign Data Collection Project

Task	Description	Comments	Transmap Units	Transmap Price	Total
1a	System 6 Shipping (units = lump sum)	Transmap will ship system 6 to data collection area - setup and testing of system 6 before initial data collection	1	\$1,500.00	\$1,500.00
1b	ON-SIGHT™ Raw Data Collection Includes LIDAR (units = ~centerline miles based on City GIS data)	Raw roadway data and image capture - 360-degree image view of all roadways (ROW) with Ladybug5 Ultra HD panoramic solution. Ground-based LIDAR (100% roadway coverage) - <b>Price includes image delivery and access to web based viewer</b>	623	\$71.00	\$44,233.00
1c	Sign Extraction (units = per sign panel) Rates based on standard attributes	Transmap is a partner with Cityworks and understands the formatting needed to support the integration of signs and poles - Standard attributes include; street name, unique ID, unique ID (street centerline), MUTCD code, daytime condition, facing direction, flashers (yes,no)	11,467	\$2.18	\$24,998.06
1d	Pole Extraction (units = per post) Rates based on standard attributes	Transmap is a partner with Cityworks and understands the formatting needed to support the integration of signs and poles - Standard attributes include; street name, unique ID, unique ID (street centerline), pole type	5,993	\$1.09	\$6,532.37
1e	GIS Integration (units = hours)	Transmap will link all collected assets to the City centerline unique ID and road name so all data is linked for Cityworks integration - If any other GIS formatting is required Transmap may need to add more hours	24	\$99.00	\$2,376.00
1f	Project Management (units = hours)	Standard project management includes managing the personnel assigned to the project, monthly project updates, ArcGIS Online project tracking, kick off meeting, phone support throughout project.	47	\$99.00	\$4,653.00
Subtotal					\$84,292.43

**City of Round Rock, TX  
Additional Value**

**Additional Value**

Task	Description	Comments	Transmap Units	Transmap Price	Total
	LIDAR Processing (units = lump sum)	Transmap will process all the collected LIDAR data into LAS files that can be brought into Autocad or ArcGIS as point cloud data (This is Real Time LIDAR data).	1	\$7,885.00	\$7,885.00
	Street Level Orthophotography (units = lump sum)	Transmap will process all the Ladybug images into street level orthos and deliver MrSID formatted orthophotography.	1	\$5,700.00	\$5,700.00
	Enhanced Project Management (units = hours)	Additional project management at customer request - Weekly project updates, more on-site meetings, etc.	1	\$99.00	
	Pass 2 (units = centerline miles) Rates based on standard attributes	Sidewalks, curbs & gutter, ADA ramps	623	\$72.00	\$44,856.00
	Pass 3 (units = centerline miles) Rates based on standard attributes	Drop Inlets, curb inlets, manholes, fire hydrants	623	\$69.95	\$43,578.85
	Pass 4 (units = centerline miles) Rates based on standard attributes	Signals and poles, street lights	623	\$64.95	\$40,463.85
	Pass 5 (units = centerline miles) Rates based on standard attributes	Striping/Markings, Shoulders, Crosswalks	623	\$74.50	\$46,413.50
	Pass 6 (units = centerline miles) Rates based on standard attributes	Transmap will collect ROW trees, medium trees and tree stands.	623	\$72.00	\$44,856.00
	Per Asset Pricing (units = per asset)	Transmap can extract any additional assets at a per asset cost.	1	\$2.18	

Task	Description	Comments	Transmap Units	Transmap Price	Total
	Nighttime MUTCD Sign Collection (units = hours)	Nighttime Assessment (Good, Replace) amount of hours based on estimated number of regulatory and warning signs based on standards	129	\$99.00	\$12,771.00

## References

### Recent Sign Inventory Projects

<b>City of Killeen, TX *</b>	<b>City of Corpus Christi, TX *</b>	<b>City of Baytown, TX</b>
<b>City of Schertz, TX</b>	<b>City of Conroe, TX</b>	<b>City of Midland, TX</b>
Kings County, CA	City of Fresno, CA	City of Hanford, CA
City of Santa Barbara, CA *	City of Irvine, CA	City of Redwood City, CA
City of Simi Valley, CA	City of Rialto, CA *	City of Bozeman, MT *
City of Greenville, NC *	City of Wilmington, NC	City of Ann Arbor, MI *
Manatee County, FL	City of Delray Beach, FL *	Jefferson County, NY
Oconee County, SC	Jefferson County, KY	City of Louisville, KY
Evansville, IN MPO *	City of Buffalo, NY	Erle County, NY
Franklin County, OH	City of Kettering, OH	City of Huber Heights, OH
City of Milton, GA	City of Rockford, IL *	Allegheny County, PA *
City of Shoreline, WA *	City of Shreveport, LA	City of Suffolk, VA

\* MUTCD Compliance Retro-reflectivity



### Transmap/Cityworks Project Partnerships

<b>City of Killeen, TX</b>	<b>City of Midland, TX</b>	<b>City of El Paso, TX</b>
<b>City of Schertz, TX</b>	City of Alexandria, VA	City of Newport News, VA
Putnam County, FL	Pasco County, FL	City of Richmond, VA
Manatee County, FL	City of Shreveport, LA	City of Suffolk, VA
City of Mesa, AZ	Greenville County, SC	City of Sammamish, WA
City of Twin Falls, ID	City of Durham, NC	City of Shoreline, WA
City of Bozeman, MT	Town of Carolina Beach, NC	City of Ann Arbor, MI
Allegheny County, PA	City of Raleigh, NC	City of Dublin, OH

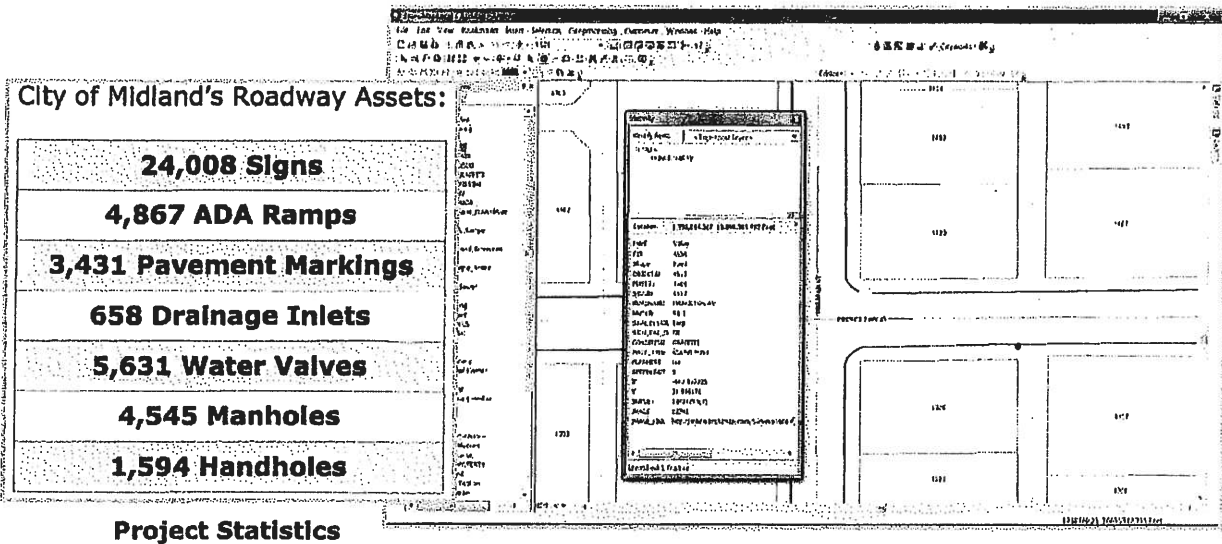
### Project Profiles

The following pages include project profiles for similar completed projects by Transmap.

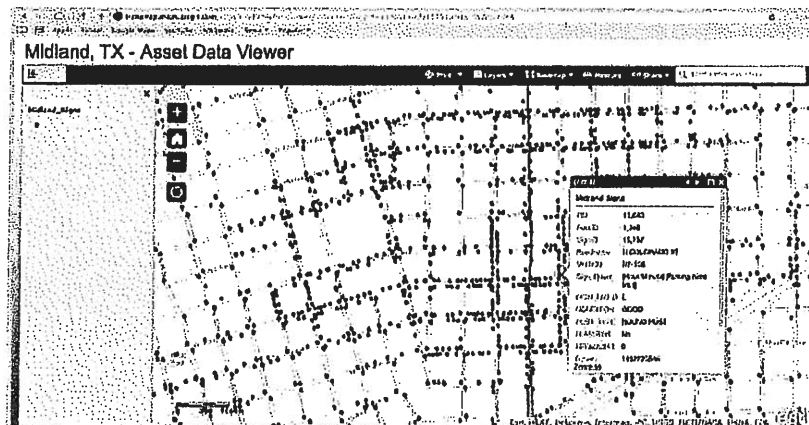
The project profiles include the information requested in the City's RFP. Our project team resumes are included after the project profiles.



City of Midland  
Midland, Texas



#### Cityworks Sign Service Request - City of Midland



#### CLIENT REFERENCE:

Gabe McClelland

300 N. Loralne St.

P.O. Box 1152

Midland, TX 79702

(432) 685-7983

[gmcclelland@midlandtexas.gov](mailto:gmcclelland@midlandtexas.gov)



**2015:** A complete assessment of the City of Midland's **roadway assets** was performed by Transmap, which included signs, pavement markings, crosswalks, ADA ramps, manholes, sidewalks, curbs, and guardrails. All the collected data was loaded onto an ArcGIS Online project tracking site, and an on-site kick off meeting was held. All asset data was formatted and loaded into Cityworks.

**2014 & 2017:** Transmap was selected to perform pavement inspections on the City's **633 centerline miles** of roadway.

Exhibit "A"  
Proposal



City of Corpus Christi  
Corpus Christi, Texas



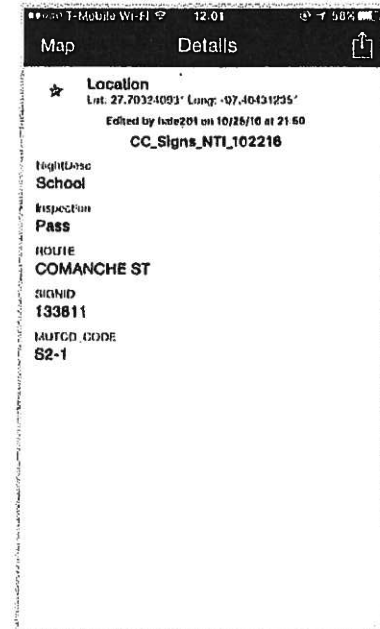
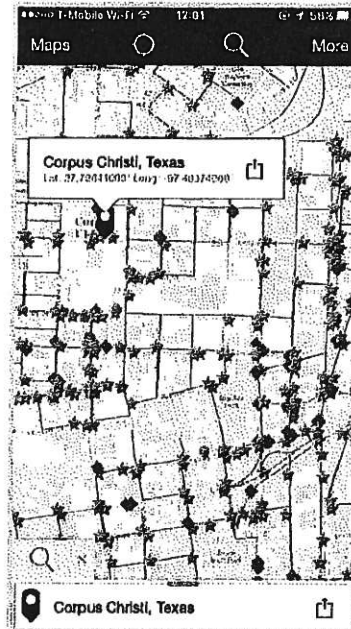
ArcGIS Online

**CLIENT REFERENCE:**

Jerry Shoemaker  
Senior Program Manager  
Engineering Services  
1201 Leopard Street  
Corpus Christi, TX 78401  
(361) 675-0964  
[jerrys2@cctexas.com](mailto:jerrys2@cctexas.com)

"You folks provided us with a great package that may now be explored at leisure. I really appreciate the effort Transmap put forth for us. I believe we were successful. Keep up the good work."

**Jeff Rotman, Project Manager**



**ArcGIS Online Collector App**

**2015:** Transmap established a comprehensive roadway asset and pavement management program for the City of Corpus Christi's **1,234 miles** of roadway by performing the following tasks:

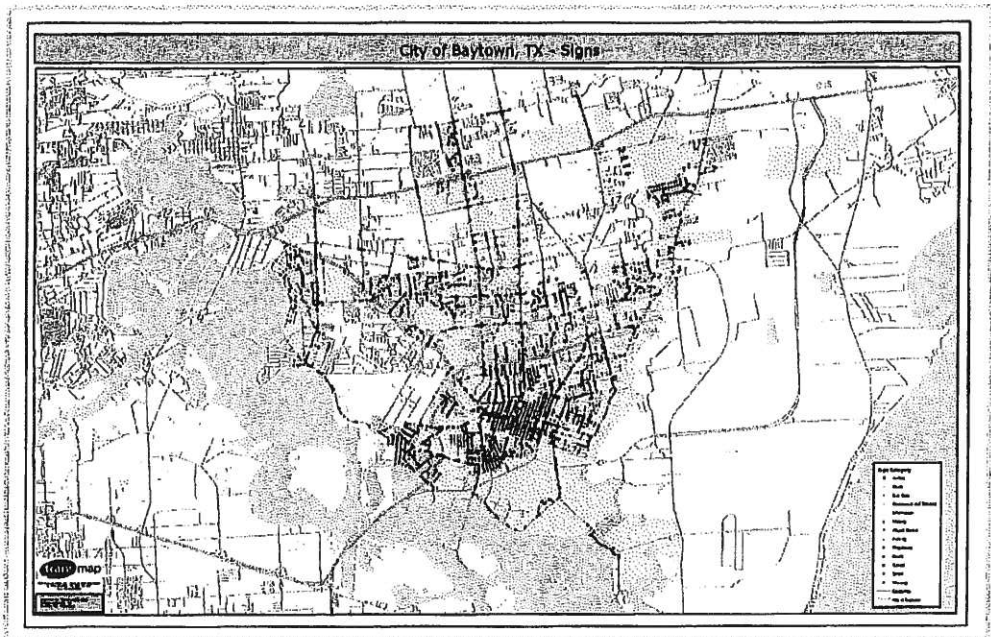
- Utilized an Ultra HD Imaging system complete with **Ladybug5 30MP** panoramic cameras and **HD LIDAR**
- Both sides of the road driven for **100% coverage**
- Set up the City to view all collected images in a web-based environment
- **ArcGIS Online Project Site**
- Collected data for roadway assets such as signs, **pavement striping and pavement marking**
- An MUTCD compliant **nighttime retroreflectivity assessment** for all signs was completed in 2016.

Tabular and GIS maps created.

**Exhibit "A"**  
**Proposal**



City of Baytown  
Baytown, Texas



**CLIENT REFERENCE:**

Kevin Harvill

Assistant Public Works Director

2123 Market Street

Baytown, TX 77520

(281) 420-7180

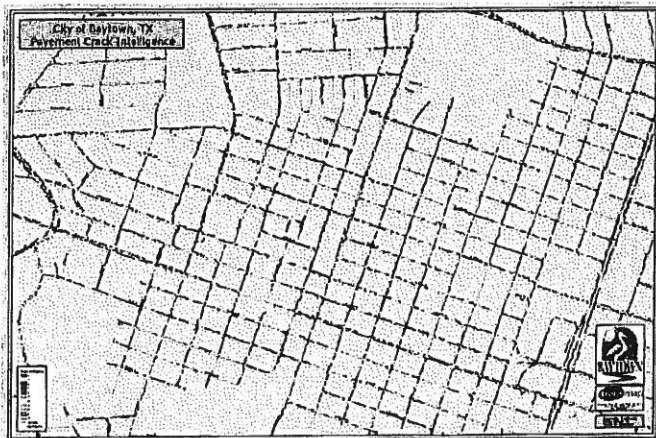
[kevin.harvill@baytown.org](mailto:kevin.harvill@baytown.org)

**2015:** Transmap successfully inventoried **320 centerline miles** of pavement and roadway assets.

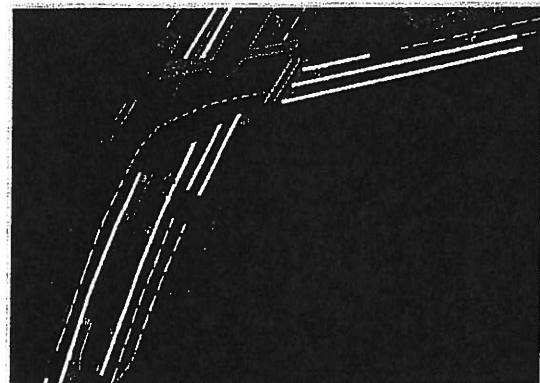
- Signs, curbs, manholes, pavement markings, ADA ramps, sidewalks, gutters and striping collected
- ArcGIS Online project site set up for the City



ArcGIS Online



Pavement Crack Intelligence Map



LIDAR Data (Striping)

Exhibit "A"  
Proposal



City of Killeen  
Killeen, Texas



#### CLIENT REFERENCE:

John Koester

Director of Street Services

2003 Little Nolan Road

Killeen, Texas 76541

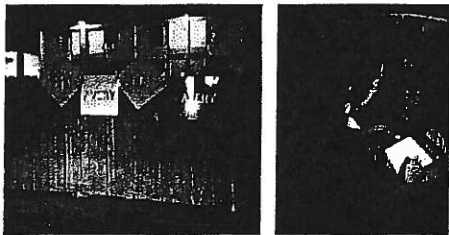
(254) 501-7777

[jkoester@ci.killeen.tx.us](mailto:jkoester@ci.killeen.tx.us)



#### Sign Nighttime Assessment Map

#### Nighttime Sign Assessment



"It was a pleasure working with Transmap on our Street Condition Assessment and other asset collection needs. They provided the data we are looking for and it will allow us to move forward in a proactive manner."

**John Koester**

#### City Council Presentation

In May 2014, Transmap helped the City of Killeen prepare their budgets and presented PCI findings at a City Council meeting.

**CITY OF KILLEEN, TX  
PAVEMENT MANAGEMENT SYSTEM RESULTS**



**2014: MUTCD nighttime sign assessment completed**

**2013: Successfully inventoried 522 centerline miles of roadway** with our mobile mapping vehicle, using our *Ultra* HD imaging system and ground-based LIDAR.

- Transmap collected traffic signs, pavement markings, ADA ramps, pavement striping, and sidewalks.
- All of the City's data was formatted to be implemented into Cityworks.
- Transmap set up an **ArcGIS Online site** with all images and distress data loaded, so the City of Killeen can view their data in a cloud environment.

**Exhibit A  
Proposal**

**CLIENT REFERENCE:**

Jay Carter

Project Manager

305 Chestnut Street, 5<sup>th</sup> Floor

Wilmington, NC 28402

(910) 341-7899

[jay.carter@wilmingtonnc.gov](mailto:jay.carter@wilmingtonnc.gov)



**Sign LIDAR Data**

**The City of Wilmington received a  
\$22 million bond over 4 years  
because of Transmap's reporting  
and analysis.**

**(Note: The City of Wilmington was  
receiving \$750,000 per year before  
Transmap's analysis.)**



**"The asset survey completed by  
Transmap provided data that has  
proven essential to the development  
and implementation of the City's Sign  
Management System required to meet  
the FHWA requirements."**

**Randall Glazier**

**Sign and Marking Engineer**

**Phase I - 2011:** Transmap successfully inventoried 428  
centerline miles of **signs** and pavement with our mobile  
mapping vehicle.

- Using ground-based LIDAR and HD  
photogrammetric images, Transmap extracted  
over 18,000 signs with robust attribution.

- Used real photogrammetric measurements combined  
with additional walk-out inspections
- Tabular and GIS maps delivered
- ArcGIS Online project site provided to the City

**Phase II - 2015:** Pavement re-inspection completed.

- Detailed LIDAR data was processed into cloud point data  
for the City. Transmap collected all ROW and medium  
trees and linked the data to the City's centerline file.

**Exhibit "A"**  
**Proposal**



## City of Round Rock, TX – Centerline Breakdown

Total Project Centerline Miles: 622.762 miles

Query used:

"ROAD\_CLASS" = 'CITY STREET'

Total number of segments over 1,000 ft: 637

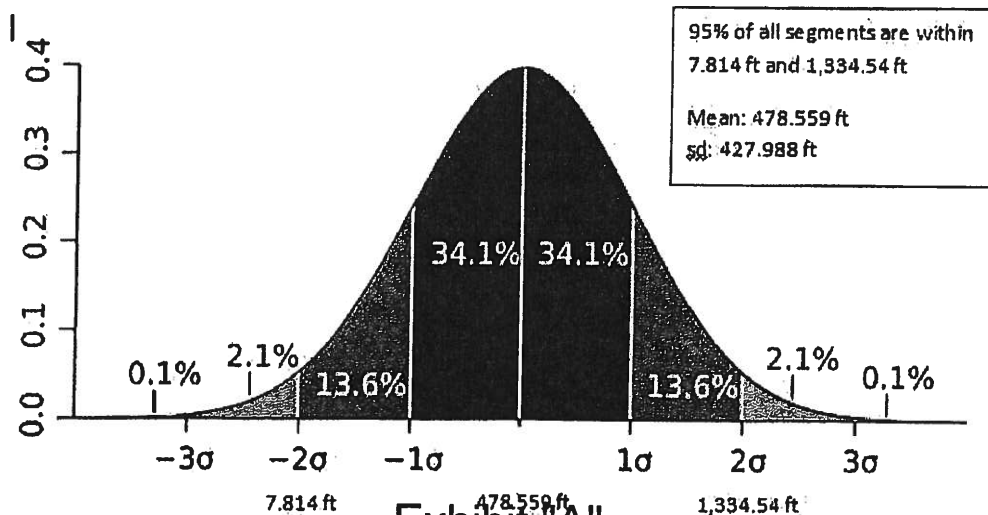
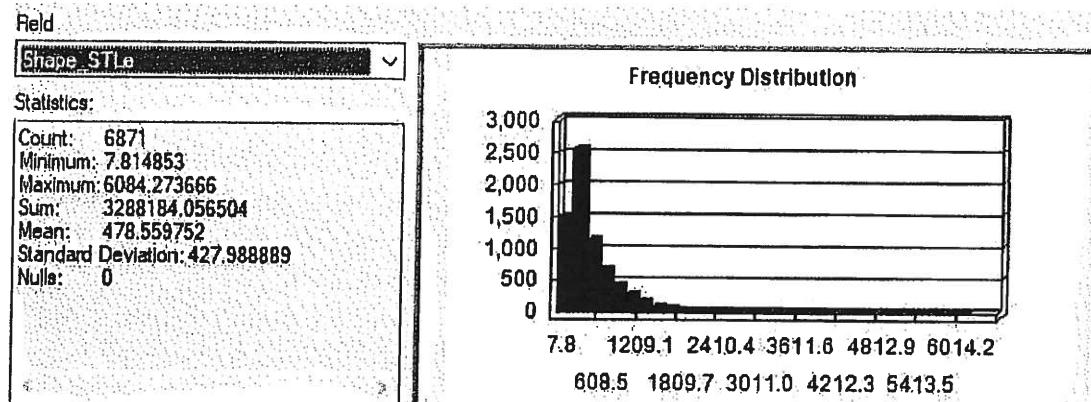


Exhibit "A"  
Proposal