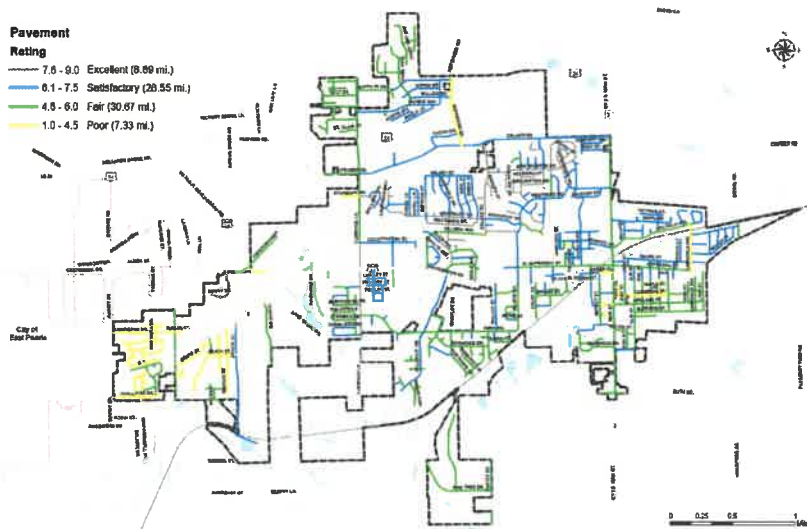


Memo

TO: Public Works Committee
FROM: Ed Andrews, Public Works Director
DATE: May 4, 2018
SUBJECT: Transmap Roadway & other Asset Mapping

Committee may recall that two years ago staff undertook the first condition rating of the system using a visual windshield survey of our roadway network using IDOT CRS. Last fall this was updated with assistance from Roadbotics who had camera-based system using a proprietary system that staff converted to IDOT CRS.



Tri-County Regional Planning / PPUATS recently went out for a county-wide mapping proposal to do a full LiDAR based inventory of all Federal Aid eligible roadways within their MPO boundary. For the City of Washington this would mean that 10.5 miles of our 79.5 mile system would be mapped under their contract. While Roadbotics was one of the submitters on the proposal, Transmap was selected due to the increased amount of data that they could gather using LiDAR, see <http://www.transmap.com/services.php>.

PPUATS' parent contract provides for communities to add their local roads, at our own cost. This is summarized in the attachment. Additional asset reduction such as sign inventory, sidewalk condition survey, etc. could be done for the City at a later date, as budget allows from the LiDAR cloud that is also part of the deliverables.

**City of Washington, IL
Pricing Based on Tri-County Contract**

1) Pavement Condition Inventory

Task	Description	Comments	Units	Price	Total
1a	ON-SIGHT™ Raw Data Collection Includes LIDAR (units = center lane mile)	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	67	\$97.99	\$6,565.33
1b	Advanced Inspections - 100% Analysis of All Through Lanes (units = lump sum)	Transmap uses an ASTM compliant E950 profilometer. Delivery of Crack Map orthophotography and MPO-wide rutting data in GIS format (All Through Lanes)	1	\$500.00	\$500.00
1c	Network Setup and Review (units = hours)	Transmap will review the MPO's updated centerline file and set up the required network for loading into MicroPAVER - Transmap will also review the MPO's centerline segmentation and suggests best practices - Delivery of GIS street layer included - If any other GIS work is needed to be done, the hours can be purchased.	6	\$109.00	\$654.00
1d	ASTM D6433 Management Section - Network (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)	710	\$5.81	\$4,125.10
1e	GIS Integration - Work History (units = hours)	Transmap will link all PCI data to the MPO's centerline file. - Transmap performs work history updates in MicroPAVER for all of our clients (more hours might be needed). - Our team has been trained by the official APWA MicroPAVER trainer. - If any other GIS work is needed to be done, the hours can be purchased.	5	\$109.00	\$545.00
1f	MicroPAVER Load (units = lump sum)	Formatting distress data and centerline file for mass load into MicroPAVER using scripts - Delivery of MicroPAVER efile included	1	\$500.00	\$500.00
1g	Pavement Management Practice Definition "Boot Camp" (price is lump sum)	Transmap will meet with the MPO 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	
1h	Reporting (units = hours)	Transmap will deliver PCI maps and standard Branch, section reports with very light M&R reports	8	\$137.00	\$1,096.00
1i	MPO Presentation/setup (units = hours)	Transmap will customize a presentation for MPO staff including charts, graphs and supporting maps - This includes presenting in person - If more hours are needed the standard hourly rate will apply	20	\$137.00	
1j	Transmap Project Management (units = hours)	Standard project management includes staff allocation, project tracking website, phone calls, overall project coordination and updates - Kick-off meeting Included	15	\$109.00	\$1,635.00
Subtotal					\$15,620.43