PID 114163 Conduit Inspections

Conduit inspection (approximately 28 conduits) within project limits of PID 114163, GEA/LAK SR 044 18.45/00.00 Rehab. Work will include MOT, cleanout (if necessary), and camera inspection. Consultants will be tasked to field collect conduit inventory data, conduit inspection data, or both as directed by the District Office.

The consultant will perform conduit inspection in accordance to the ODOT Conduit Management Manual (https://www.transportation.ohio.gov/wps/portal/gov/odot/working/engineering/hydraulic/conduit-management/03/03-inspection). This work includes inspection of conduits with span lengths from 12 inches to less than 120 inches. A list of conduits within the project limits is included, but shall be verified by consultant. The consultant shall follow the flow chart and ODOT field data collection technology terms and conditions to establish access to the ODOT conduit collector app. (see attached external user request workflow.pdf and ODOT field data technology terms conditions.pdf)

This work includes inspection for Class A, B, C, and D entry classes. Perform Class A (non-entry) inspections on conduits where a good view of the entire barrel may be obtained from the conduit ends. Inspection of conduits with a Class D entry class may require remote video inspection equipment or confined space equipment and training.

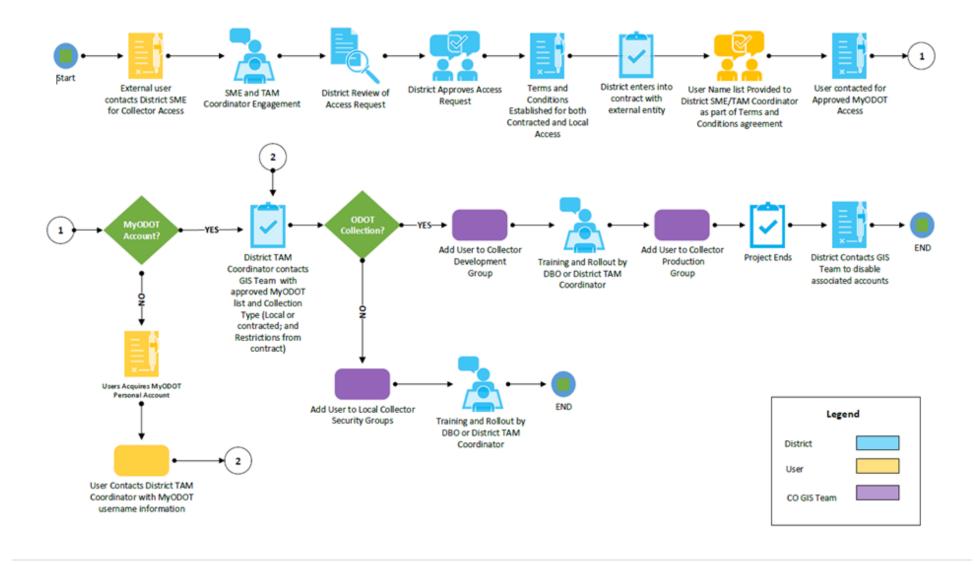
Consultant Requirements:

- Must have completed ODOT Conduit Inventory and Inspection Training
 (http://www.dot.state.oh.us/Divisions/Planning/LocalPrograms/LTAP/Pages/technicalcourseinform ation.aspx). Attendance must be completed prior to performing work. Individuals qualified as ODOT bridge inspectors are not required to attend this training.
- Individuals must have experience in conduit design, installation, or maintenance activities.
- ODOT external access account as required for data uploads.

Deliverables:

- Conduit Inventory and Inspection data in electronic format. Delivered by sync to or upload directly to the ODOT conduit collector database.
- Video of Class D entry class conduits on a DVD or CD. Use the CFN to identify the video (ie: 720061321.avi)
- The minimum required digital photos of the conduit shall follow ODOT's conduit inspection manual. The consultant shall up load photos along with the inspections into the collector app and the consultant shall supply a cd/dvd with all inspection photos placed in a folder named with the corresponding CFN and year. Use the CFN with an underscore and the number of the photo (ie: 720061321 1.jpg or 720061321 2.jpg).

YExternal Collector User Workflow



Overview

The Ohio Department of Transportation (ODOT) deploys field data collection technology, to facilitate the inventory and inspection of many of ODOT's transportation assets. At this time (Fall 2018), this technology is the ESRI Collector, ESRI WebAppBuilder, and other related GIS applications (now referred to collectively as "Collector"). ODOT deploys this software on state IT infrastructure and can make it available for external vendors under contract to aid in the maintenance of this information. Benefits for vendors leveraging the ODOT infrastructure for these solutions include:

- new and updated inventory/inspection records are stored directly in ODOT databases, making the information available immediately for ODOT usage
- ensures consistent data as all enterprise asset collections will adhere to ODOT approved Collector infrastructure and application requirements
- reduces vendor contract requirements (vendors do not need to build & maintain their own solutions, and determine a method for transmitting data to ODOT)

Service Level Expectations

ODOT may provide vendors access to the following (some variation across solutions):

Item	Comments									
Named User Account for	Required for solution access									
secured sign on access	https://myodot.dot.state.oh.us									
Collector Maps for inventory	Accessed via mobile devices for field data collection									
/ inspection	The Collector application shall be downloaded from the Apple App									
	Store									
Web Apps	Accessed via web browsers for viewing and editing data									
	Some require secured sign on for access									
QC Reports	Automated reports which highlight data quality concerns. If QC									
	Reports are included as part of a solution, shall be utilized by vendors									
	to ensure data quality									
Inventory Manuals	PDF documents which detail what and how information needs to be									
	collected. Vendors shall collect data according to these specifications									
Basemap Imagery Files (TPK	ODOT has generated TPK imagery files for offline data collection.									
file type)	These can be made available for vendors if desired									
Asset Contact Information	ODOT has established roles to ensure consistent management of asset									
	information. Data Business Owners (DBO) reside in ODOT Central									
	Office and manage the overall asset performance. Subject Matter									
	Experts reside in District Offices, overseeing daily matters related to an									
	asset. District Transportation Asset Management Coordinators are									
	additional resources in each District which help coordinate asset									
	management activities. They may also be contacted for support.									

ODOT Field Data Collection Technology Terms & Conditions

ODOT shall not provide vendors the following:

Item	Comments								
Mobile Devices (iPads, iPhones, etc.)	Vendors shall supply their own equipment, and it is the vendor's exclusive responsibility to ensure compatibility with the ODOT solution. Mobile devices shall have GPS functionality to enable locational data collection. Mobile devices shall have sufficient memory and storage to support offline data connection (data collection when no cellular network is available).								
	Supported Platform: Apple iOS version 11.2+								
Mobile Data Plans	ODOT Collector solutions are designed to function in both online (connected to cellular network if available) or offline (requires cellular or WiFi connection to sync data) modes. ODOT shall not provide access to mobile data plans. Vendors shall determine their preferred method for transmitting data (ex. Cellular, WiFi).								
	Some regions in Ohio may only work in offline mode due to limited cellular connectivity. Vendor selected mobile devices shall be able to perform to ODOT specifications in an offline mode should cellular connectivity be limited.								

ODOT Service Level for Collector Infrastructure:

Item	Comments							
General Solution Access & Uptime	The solution is deployed on technology infrastructure (databases, servers) which operates 24/7/365, however periodic scheduled maintenance may occur, resulting in temporary unavailability. ODOT will communicate system maintenance periods in advanced as possible.							
	In the event of an environment failure, ODOT will deploy best efforts to restore access within a reasonable time, but may be dependent on resource availability from another state agency (DAS OIT).							
Solution Support	ODOT can provide phone or email support Monday – Friday, 7AM – 3:30PM, with exception to agency observed holidays.							
	ODOT will make reasonable efforts to respond to requests within 24 hours of incident notice. Resolution time frames may vary depending on incident.							
	The Office of Technical Services may be contacted for general Collector solution technical support.							

ODOT Field Data Collection Technology Terms & Conditions

Item	Comments							
	Asset Data Business Owners (DBO) or Subject Matter Experts (SME) shall contacted for all matters related to inventory / inspection workflows, data quality issues, inventory specifications, etc.							
Solution Updates	DBO and SME will use best efforts to communicate solution changes within a reasonable time period.							

Standard Vendor Expectations

Item	Comments
Training	 All vendor staff shall receive inventory / inspection training to ensure data quality meets defined ODOT specifications. The vendor shall ensure their staff complete any needed training and should be coordinated with ODOT Central Office DBO or District SME as appropriate. If updates to a solution occur during a contract period, it is the vendors responsibility to ensure their staff remain current
Data Quality	Acceptable data quality to be supplied by the vendor will be determined by the DBO.
Communication	Vendors shall communicate any concerns or problems with the solution to ensure it can be resolved.

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						ENTRY				SPAN	RISE	LENGTH		SKEW			CLOSED	MAX COVER	LAST INSPECTION	FREQ
CRS	LATITUDE	LONGITUDE	DESIGNATION	CFN	OLD CFN	CLASS	INTERSECTED	SHAPE	MATERIAL	(IN)	(IN)	FEET	SLOPE	(DEG)	INLET_END_TREATMENT	OUTLET_END_TREATMENT	SYSTEM	(FT)	YEAR	YEAR
GEA-44-18.426	41.59412	-81.22803	Mainline	1814887	280441840	Α	By Mentor Road	Circular	ain or Reinforced Concre	60	60	368		24	Catch Basin	Half Height Concrete Headwall	Υ	1	2013	5
GEA-44-18.594	41.596393	-81.229202	Mainline	1813480	280441859	Α		Circular	ain or Reinforced Concre	24	24	134	7	0	Catch Basin	Half Height Concrete Headwall	Υ	4	2012	10
GEA-44-18.603	41.596416	-81.229741	Mainline	1813479	280441857	Α		Circular	ain or Reinforced Concre	24	24	100	3.5	0	Catch Basin	Catch Basin	Υ	3	2012	10
GEA-44-18.676	41.597542	-81.229657	Mainline	1814899	280441865	Α		Circular	ain or Reinforced Concre	18	18	116	8.2	0	Catch Basin	Half Height Concrete Headwall	Υ	3	2012	10
GEA-44-18.680	41.597552	-81.229853	Mainline	1813481	280441866	Α		Circular	ain or Reinforced Concre	18	18	94	9	0	Catch Basin	Catch Basin	Υ	3	2012	10
GEA-44-18.953	41.6014	-81.2311	Mainline	1813482	280441894	Α	N	Circular	ain or Reinforced Concre	18	18	212	5.2	0	Third Height Concrete Headwall	Third Height Concrete Headwall	N	12	2012	10
GEA-44-19.026	41.60244	-81.23136	Mainline	1813484	280441901	Α	N	Circular	ain or Reinforced Concre	27	27	268	3.9	24	Third Height Concrete Headwall	Third Height Concrete Headwall	N	15	2012	10
GEA-44-19.054	41.602699	-81.232114	Mainline	1813485	280441903	Α		Circular	ain or Reinforced Concre	18	18	122	7.6	15	Catch Basin	Catch Basin	Υ	10	2012	10
GEA-44-19.061	41.6029	-81.23166	Mainline	1813486	280441904	Α	N	Circular	ain or Reinforced Concre	18	18	122	7.4	0	Third Height Concrete Headwall	Catch Basin	Υ	8	2012	10
GEA-44-19.194	41.60474	-81.23243	Mainline	1814888	280441917	Α	N	Circular	ain or Reinforced Concre	24	24	216	5.8	3	Third Height Concrete Headwall	Third Height Concrete Headwall	N	10	2012	10
GEA-44-19.261	41.60569	-81.23274	Mainline	1814889	280441924	Α	N	Circular	ain or Reinforced Concre	18	18	213	1.5	0	Catch Basin	Third Height Concrete Headwall	Υ	10	2012	10
GEA-44-19.370	41.6072	-81.233322	Mainline	1814890	280441934	Α	N	Circular	ain or Reinforced Concre	21	21	232	3.5	23	Third Height Concrete Headwall	Third Height Concrete Headwall	N	8	2014	10
GEA-44-19.491	41.608879	-81.233957	Mainline	1814891	280441947	Α		Circular	ain or Reinforced Concre	15	15	108	2.6	0	Catch Basin	Third Height Concrete Headwall	Υ	6	2012	10
GEA-44-19.495	41.608935	-81.233974	Mainline	1861391	280441949	Α	N	Circular	ain or Reinforced Concre	27	27	244	2.5	42	Third Height Concrete Headwall	Third Height Concrete Headwall	N	4	2015	10
GEA-44-19.690	41.61154	-81.23553	Mainline	1814892	280441966	D	HOSFORD	Circular	ain or Reinforced Concre	42	42	156	1.7	19	Third Height Concrete Headwall	Catch Basin	Υ	8	2012	10
GEA-44-19.701	41.611719	-81.235516	Side Road Left	1814893	280441969	Α	UNDER HOSFORD ROAL	Circular	ain or Reinforced Concre	42	42	140	1.1	44	Catch Basin	Third Height Concrete Headwall	Υ	8	2012	10
GEA-44-20.031	41.61643	-81.23663	Mainline	1814894	280442002	Α	N	Circular	ain or Reinforced Concre	42	42	276	0.9	40	Third Height Concrete Headwall	Third Height Concrete Headwall	N	15	2012	10
GEA-44-20.098	41.61733	-81.23729	Mainline	1814895	280442009	Α	N	Circular	ain or Reinforced Concre	60	60	264	1	33	Half Height Concrete Headwall	Half Height Concrete Headwall	N	12	2021	5
GEA-44-20.419	41.62194	-81.23809	Mainline	1814896	280442040	Α	N	Circular	ain or Reinforced Concre	30	30	178	0.5	0	Third Height Concrete Headwall	Third Height Concrete Headwall	N	3	2013	10
GEA-44-20.736	41.626565	-81.238214	Side Road Right	1814897	280442072	Α	DER CLARK ROAD NB SF	Circular	ain or Reinforced Concre	30	30	76	1	10	Third Height Concrete Headwall	Third Height Concrete Headwall	N	1	2012	10
GEA-44-20.755	41.62678	-81.238831	Side Road Left	1814898	280442073	Α	DER CLARK ROAD SB SF	Circular	ain or Reinforced Concre	18	18	92	0.7	8	Third Height Concrete Headwall	Third Height Concrete Headwall	N	4	2012	10
GEA-44-21.115	41.631935	-81.239868	Mainline	1814900	280442109	Α		Circular	ain or Reinforced Concre	15	15	92	1.6	0	Catch Basin	Third Height Concrete Headwall	Υ	3	2012	10
GEA-44-21.261	41.634	-81.2404	Mainline	1814901	280442124	Α	N Ilip	otical - Horiz	ontain or Reinforced Concre	91	58	186	0.5	9	Half Height Concrete Headwall	Half Height Concrete Headwall	N	4	2021	5
LAK-44-0.000	41.641192	-81.241031	Side Road Right	1814902	280442173	Α	ER COLBURN ROAD NB (Circular	ain or Reinforced Concre	30	30	72	1	8	Half Height Concrete Headwall	Half Height Concrete Headwall	N	2	2012	10
LAK-44-0.008	41.641196	-81.241879	Side Road Left	1814903	280442174	Α		Circular	ain or Reinforced Concre	30	30	92	1	8	Third Height Concrete Headwall	Third Height Concrete Headwall	N	2	2012	10
LAK-44-0.150	41.64328	-81.24209	Mainline	1863924	430440015	Α	Channel	Circular	ain or Reinforced Concre	54	54	234	1.8	13	Full Height Concrete Headwall	Half Height Concrete Headwall	N	14	2020	5
LAK-44-0.402	41.64695	-81.24198	Mainline	1814918	430440040	Α	Channel	Circular	Corrugated Metal - Pipe	36	36	186	2.2	0	Half Height Concrete Headwall	Half Height Concrete Headwall	N	5	2013	10
LAK-44-0.671	41.65084	-81.24136	Mainline	1814919	430440067	Α	Channel	Circular	ain or Reinforced Concre	24	24	209	1.2	0	Third Height Concrete Headwall	Half Height Concrete Headwall	N	8	2013	10