

Starke County Highway Department Monthly Report – February 6, 2017

ASSET MANAGEMENT REPORTS

ROADWAY

Winter Operations

2016-7 WINTER PLOWING									
MONTH	SNOW EVENTS	SNOWFALL IN INCHES	PLOW HOURS	PLOW HOURS PER DRIVER	MILES CLEARED	MILES CLEARED PER HOUR PER DRIVER	SALT USED	SAND USED	
NOVEMBER	0	0	0	0	0	0	0	0	
DECEMBER	12	14.8	1632	99.6	31318.3	19.19	595	2542	
JANUARY	6	0.52	704	49	11005	15.63	333	1322	
TOTALS	18	15.32	2336	148.6	42323.3	18.11	928	3864	
2015-6 WINTER PLOWING									
MONTH	SNOW EVENTS	SNOWFALL IN INCHES	PLOW HOURS	PLOW HOURS PER DRIVER	MILES CLEARED	MILES CLEARED PER HOUR PER DRIVER	SALT USED	SAND USED	
NOVEMBER	3	9.13	311.5	22.9	5978	19.19	150	655	
DECEMBER	2	0	324.5	20.28	5079	15.65	45	584	
JANUARY	9	4	928	68.5	16295.7	17.56	498	1765	
TOTALS	14	13.13	1564	111.68	27352.7	17.49	693	3004	
2014-5 WINTER PLOWING									
MONTH	SNOW EVENTS	SNOWFALL IN INCHES	PLOW HOURS	PLOW HOURS PER DRIVER	MILES CLEARED	MILES CLEARED PER HOUR PER DRIVER	SALT USED	SAND USED	
NOVEMBER	1	0.1	12	3	287.7	23.98	20	80	
DECEMBER	1	0.2	120	8	3181.6	26.51	30	120	
JANUARY	12	8.25	1515	91.2	28154.4	18.58	576	2352	
TOTALS	14	8.55	1647	102.2	31623.4	19.2	626	2552	
2013-14 WINTER PLOWING									
MONTH	SNOW EVENTS	SNOWFALL IN INCHES	PLOW HOURS	PLOW HOURS PER DRIVER	MILES CLEARED	MILES CLEARED PER HOUR PER DRIVER	SALT USED	SAND USED	
NOVEMBER	4	8.9	360.45	22.5	7328	20.32	150	655	
DECEMBER	9	9.9	954.56	59.66	18243	19.31	275	1112	
JANUARY	30	46.6	2923.2	182.7	54985	18.81	917	4632	
TOTALS	43	65.4	4268.2	264.86	80556	18.87	1342	6399	

Thanks to the relatively mild January we have saved money on Diesel Fuel, Snow Plow Blades, Overtime, and other winter related expenditures. We have also been able to stockpile most of our summer paving material needs including stone and sand. If the weather holds we will also get a jump start on our Spring maintenance activities (bridge cleaning, culvert replacements, road berming, etc..)

Heavy Truck Ordinance

2/6/2017 Commissioner Meeting– Discuss the relevant issues with the Commissioners and present an action plan for completion of the ordinance.

- 1) Preservation of County Roads damaged by heavy truck traffic
- 2) Roadway Safety

- 3) Little or no impediments to local businesses and farms
- 4) Enforcement Issues

2/20/2017 Commissioner Meeting- Present a preliminary draft to the Commissioners; Form an ordinance Committee to recommend revisions that includes one Commissioner, one Council member, Sheriff (for enforcement issues), Highway Superintendent, A Farm representative, economic development representative, and possibly others.

3/20/2017 Commissioner Meeting – Present the Committee’s recommendations to the Commissioners for their approval. Schedule the necessary public meetings for the passing of the ordinance

TBD – Public meetings and possible revisions resulting from those meetings

PASER ratings – We have just completed our 2017 PASER (Pavement Surface Evaluation and Rating). These ratings are required to update our existing Roadway Asset Management that is required by the State to qualify for matching funds such as the Community Crossings grants. We completed the field ratings two week ago and the data was entered into our Roadway Asset Management Database last week. Next Month we will present to the Board a comparison of our 2015, 2016, and 2017 PASER ratings and how they are relevant not only to our Roadway funding but also to our Roadway Maintenance program

Road Maintenance Program – Similar to our current Bridge Maintenance plan, the Roadway plan is designed to formalize our Department’s road maintenance activities such as patching, mowing, brush control, minor road resurfacing, shoulder repair, shoulder berming, etc.. The scope of this plan is directly related to the funding made available by the State and Federal Governments. It is also affected by the completion of the Bridge Replacement Program, the completion of which should allow us to move more funding to our roadways.

Crash Data

Adopt-A-Road

The Hamlet Lions want to pick up trash on 600E as part of our adopt-a-road program. We will supply the vests, trash bags, and signs in return for their volunteer hours.

Starke County Five Year Strategic CEDIT Infrastructure Plan

Last week we met with the Starke County Development Foundation to revise the 5 year CEDIT infrastructure plan. The revised plan will be presented for the Commissioners’ review at a future meeting.

BRIDGE

Current Bridge Projects

Priority	Bridge Number	Location	Sufficiency rating	Status	Completion year
1	50	CR1150E over Osborn Ditch, 1m S of SR10	24.6	Awarded to NIC Construction, Construction to begin in April	2017
2	46	CR900E over Osborn Ditch, .9m S of SR10	26.9	November 2016 bid opening, construction to begin April 1st, 2017	2017
3	47	CR625S over Osborn Ditch, .06M W of CR875E	41.6	November 2016 bid opening, construction to begin April 1st, 2017	2017
4	36	CR25N over Eagle Creek, .1 miles W of 600E	26.9	Design RFP sent out, submittals due on 2/27/2017	2017
5	58	CR800S over Bogus Run, 0.02 miles E of CR200W	35.9	Design RFP sent out, submittals due on 2/27/2017	2017
6	154	CR100E over Robbins Ditch, .4m N of CR400N	47.1	Design RFP to be sent out in July	2018
7	7	CR1200E over the Yellow River, .5M N of CR250S	35.2	Seven submittals received, scoring is in progress	2019
8	13	CR600E over Robbins Ditch, .01 miles S of 800N	61.6		2020
9	59	CR700S, .2 miles E of CR200W	62.9		2021
10	140	CR200E over Robbins Ditch, .1 miles S of 500N	66.1		2022

RFP for Bridge # 7 Design (Federal Funding)

We received 7 consultant LOIs for this project;

- 1) Ciorba Group (Michigan City, IN)
- 2) Jones, Petri, Rafinski (South Bend, IN)
- 3) Lawson and Fisher (South Bend, IN)
- 4) Primera Engineers (Munster, IN)
- 5) Short, Elliot, and Hendrickson of Indiana (Michigan City, IN)
- 6) United Consulting (Indianapolis)
- 7) USI Consultants (Indianapolis/Westville)

They are currently being scored based on INDOT's scoring criteria. On February 20th we will make a recommendation to the Board on Consultant selection based on the scoring results.

RFP for Bridges 36 and 58 Design (Locally funded)

The RFP was sent out last month. The submittal deadline for LOI's is February 27th, 2017

Sign Bridge Contracts for Bridges 46 and 47.

Bridge Maintenance Plan - Spring review

- 1) Deck Cleaning/Sealing
- 2) Rip Rap repair
- 3) Open drains
- 4) Excess Foliage
- 5) Channel
- 6) Joint Distress

- 7) Deck distress
- 8) Signage
- 9) Any unexpected damage or circumstance

Phase II Bridge Inspections

Last month USI submitted their draft Inspection Report for our Phase II Bridge Inspections. There were some errors in their report. We are waiting for their revisions. Tomorrow we have a teleconference with the INDOT Bridge Inspection Project Manager.

CULVERTS AND DRAINAGE

Culvert Inventory - We are currently completing our second County-wide culvert inventory. It should be complete sometime this month. Our first inventory cataloged 624 culverts throughout the County. We currently have 13 pipe/culvert replacements scheduled for this spring. More will be inevitably be added to the list after the new inventory is complete. Last year we replaced over 30 pipes/culverts.

300W Drainage Project – For many years there has been a problem with flooding on 300W, ¼ South of 800S. The County Surveyor and local property owner have worked with our Department in the last year to come up with a long-term solution to this problem. By sharing cost and resources we will hopefully alleviate this problem by replacing the damaged drainage tile that crosses 800S from the south, just west of 300W. An additional pipe will be installed on 300W, south of 800S. The roadway will be repaved when this project is complete.

PERSONNEL

Staffing

Beginning February 15th Work One will be providing us with an employee through their Work One Experience Program. They will be paying for his salary through May 15th. This will give us time to evaluate him to see if he is qualified for further employment with our Department. His job duties will include facility maintenance, washing the Department's vehicles and assisting our sign technician. We currently have three full time employees who participated in some sort of Work One program. We have three part-time workers returning to mow this summer. We are planning to hire two, possibly three more.

Safety

We have had zero accidents and zero workman's comp claims this winter.

We will be eliminating our current uniform service

Training

Bloodborne Pathogens training February 13th

CPR/First Aid training will be provided by the EMS Department. We are arranging that the EMS Director

LTAP Chainsaw and Poison Ivy Training. To be scheduled in early spring.

LTAP Road Builder/Master Road Builder Program. HB

Highway Construction Inspector Certification

Three of our employees took one of the six Construction Inspector tests last month. All three passed. Nevin Miller has passed two of the six necessary for certification. Larry Ludwig has now passed one of the six. Bob Lorenz has now passed four of the six tests necessary for his re-certification.

Relevant Certifications held by Highway Department Employees

OSHA(30Hr.) - Dale Conley, Terry McIntire, Rik Ritzler

APWA Winter Supervisor Certification – Dale Conley, Rik Ritzler

INDOT Construction Inspector Supervisor Certification – Bob Lorenz, Rachel Oesterreich, Rik Ritzler

LTAP Road Builder – Rik Ritzler

INDOT Storm Water Quality Manager Level 1 – Rik Ritzler

Stormwater Drainage Conference Feb. 9th (Superintendent)

WTH/GIS training March 3rd (Sign technician and Construction Inspector) This is training is necessary for the completion of our upcoming Sign Inventory.

Purdue Road School March 7-9 (Superintendent, Construction Inspector, and drivers enrolled in the Road Builder program

Regular Weekly meetings

EQUIPMENT

Equipment Replacement Schedule

Front Line Work Trucks

Vehicle Number	Truck Type	Truck Size	VIN Number	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
6	Sterling	Tandem Dump Truck	2FZHAWDC05AV05770	2005	291119	2021	Front Line work/plow truck, w/underbody scraper
7	Sterling	Tandem Dump Truck	2FZHAWDC045AV05769	2005	222664	2022	Front Line work/plow truck, w/underbody scraper
12	Freightliner	Tandem Dump Truck	1FVHG3DVXEHFV3499	2014	75877	2028	Front Line work/plow truck, primary tow truck, w/underbody scraper
14	Sterling	Dump Truck	2FZHAJBB4YAF66673	2000	203945	2026	Front Line work/plow truck
15	Freightliner	Dump Truck	1FVAG5BS4DDFB2860	2013	113686	2029	Front Line work/plow truck, w/underbody scraper
16	Sterling	Tandem Dump Truck	1F04586E0VVA37960	1997	227978	2020	Front Line work/plow truck
17	Sterling	Tandem Dump Truck	1FD4586E0VVA37961	1997	256153	2019	Front Line work/plow truck
19	Volvo	Tandem Dump Truck	4VHJCHUF6XN867900	1999	517790	2017	Front Line work/plow truck, w/underbody scraper
22	Freightliner	Dump Truck	1FVAG5CY3EHFV2820	2014	78570	2031	Front Line work/plow truck

24	Freightliner	Dump Truck	1FVAG5CY5EHFV2821	2014	89365	2030	Front Line work/plow truck
25	International	Dump Truck	1HTZZAAR4CJ081375	2012	65187	2027	Front Line work/plow truck
27	Volvo	Dump Truck	4V5J32HE8XN871315	2000	278890	2024	Front Line work/plow truck, w/underbody scraper
31	International	Dump Truck	1HTGBAARXVH436542	1997	329629	2017	Front Line work/plow truck, w/underbody scraper
57	International	Dump Truck	1HTWDAAR76J177846	2006	206108	2025	Front Line work/plow truck
61	International	Dump Truck	1HTWDAAR76J177845	2006	258319	2023	Front Line work/plow truck
63	International	Dump Truck	1HTSVAAN71H405162	2001	168636	2018	Front Line work/plow truck

Spare Work and other Dump Trucks

Vehicle Number	Truck Type	Truck Size	VIN Number	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
11	International	Tandem Dump Truck	1HTSHNUR7NH399105	1992	35041	scrap/parts	Salvage for parts
18	International	Dump Truck	1HTSDAAN1TH295051	1996	46486	scrap/parts	Spare work/Plow truck
21	International	Dump Truck	1HTGBAAR3XH608217	1999	331114	scrap/parts	Salvage for parts
50	International	Terrastar	1HTJSSKK9FH664268	2015	23055	2030	Small Dump Truck/plowing/patching, animal and trash removal
65	International	Dump Truck	1HTSDNSR7NH399104	1992	134960	scrap/parts	Spare work/Plow truck
66	International	Dump Truck	1HTSDPNR7NH460359	1992	339971	scrap/parts	Spare work/Plow truck

Pickups

Vehicle Number	Truck Type	Truck Size	VIN Number	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
1	Dodge	Ram 2500 ST 4X4 crew cab	3C6TR5CT6GG354947	2016	8200	2031	Superintendent's truck/Plowing/Travel for training and meetings, field work, after hours on call, refueler
2	Ford	F250 XL Reg Cab	1FTBF2B6XEEA31299	2014	60101	2029	Operations Foreman's Truck/Plowing, Field work, after hours on call, refueler
3	Ford	F250 XL Crew Cab	1FT7W2B69EEA46849	2014	56978	2029	Garage Foreman's truck/Plowing/Travel for training and meetings, field work, after hours on call, work crew transport, refueler
4	Ford	F250 extended cab	1FTNX21F51ED70610	2001	288232	2018	Senior Driver's Truck/Plowing, work crew transport, after hours on call, animal and trash removal, refueler
13	Ford	F-350 1-ton reg cab with dumb bed	1FDKF38G3TEA05240	1996	143232	2022	Plowing, work crew transport, Patching, animal and trash removal
29	Ford	F-250 reg cab	2FTHF26H0SCA23400	1995	257714	2017	Plowing, work crew transport, animal and trash removal, refueler

Service Vehicles

Vehicle Number	Truck Type	Truck Size	VIN Number	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
23	Ford	Bridge Inspection Trk	1FTNF21F5YEE26350	2000	289846	2020	Bridge inspection/construction
20	International	Dump Truck	1HTGBAAR1XH608216	1999	288043	2028	Water /Brine/Plow truck/Underbody scraper
83	GMC	Sierra Pick-up K3500	1GDJK34F7VF056354	1997	63621	2027	Mechanic service truck w/boom
84	Ford	Service Truck	1FDXE40F3WHA82890	1991	202609	2022	Mechanic service truck (old ambulance)
85	Ford	Sign Truck	EFDWE35F32HA22164	2002	263479	2023	Mobile sign shop (old ambulance)

5	Econoline	Van	1FTEE14Y4DHB48639	1983	66153	n/a	Work Crew Transport
28	Ford	Van	1FMEE1166VHB75194	1997	171070	2025	Work Crew Transport, Travel for training and meetings, Deer and trash removal
67	International	Dump Truck	1HTSDPNR3NH460360	1992	46671	2022	Brush Truck
68	International	Boom Truck	1HTS0NUN5NH427640	1992	175080	2020	Boom Truck
39	GMC	Topkick Truck	1GDM7H1J6TJ515372	1996	170286	2026	Distributor Truck

Paving and other self propelled equipment

Vehicle Number	Truck Type	Truck Size	VIN Number	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
8	Cat	Loader MODEL 9285	06XR02313		n/a	2022	3.5yd Loader
9	Broce	Broom MODEL RJ300	88005		3901 hours	2024	Sweeper Broom
10	JCB	Backhoe	SLP214TC1W0901196		n/a	2025	Backhoe
33	CAT	Grader MODEL 135H	03YK00051		6540 hours	2027	Main Grader
34	Webco	Grader MODEL 444	22972		n/a	2022	Backup Grader
37	Doosan	Model DL250-3 Loader	DWGCWLAWKE1010438	2015	1144 hours	2035	3.5 yd loader
38	Cat	Small Loader MODEL 924F	05NN00973		5108 hours	2024	2.3yd loader
45	Blau-Knox	Paver	11515-13	1990	5161 hours	2018	Paver
48	Galion	Rubber Tire Roller	BZ6330		1417 hours	2028	Rubber Tire Roller
49	Tampco	Steel Roller	RS166A		5336 hours	2030	Steel Roller
54		Stone Chipper	K3864	1984	n/a	2018	Stone Box/Chipper
56	Cat	Excavator	1Y500277		7118 hours	2019	Excavator
69	Case	Bobcat 1840 Case Uniloader	JAF0156250	1992	1237 hours	2028	Bobcat

Mowers and Tractors

Vehicle Number	Mower/Tractor Brand	Mo Type	VIN Number	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
46	Simplicity	Riding Mower			n/a		Lawn Mower
72	John Deere	1995 John Deere	LV5400E441905	1996	9772 hours	2018	Mowing Tractor
72A	Alamo	EK 11 Mower	61406		n/a		Mower for John Deere tractor
73	John Deere	1996 John Deere	LV5400E441519	1996	8938 hours	2019	Mowing Tractor
73A	Woods	S105 Mower	1228149		n/a		Mower for John Deere tractor
74	John Deere	1996 John Deere	LV5400E541592	1996	9116 hours	2020	Mowing Tractor
74A	Woods	S105 Mower	1228748		n/a		Mower for John Deere tractor

75	John Deere	1996 John Deere	LV5400E442955	1996	10262 hours	2017	Mowing Tractor
75A	Alamo	EK 11 Mower	1405		n/a		Mower for John Deere tractor
76	Alamo	EK 11 Mower (spare)	1407		n/a		Mower for John Deere tractor (spare)
77	Ford	New Holland Ford	AEPR26961PAC2AA1	1999	3629 hours	2020	Brush Chopper
77A		Brush chopper Mower			n/a		Brush Chopper arm for New Holland Tractor
80	John Deere	Tractor	1P0610SDBVDMOSO414	2014	2486 hours	2030	Mowing Tractor and Brush Chopper
80A	Alamo	Mower	N/A		n/a		Mower for John Deere tractor
80B		Brush chopper Mower		2016	n/a	2036	Brush Chopper arm for John Deere tractor
99	Husqvarna	M-ZT52 Mower	041015B001674	2015	n/a	2035	Zero Turn Deck Mower

Trailers and other equipment

Vehicle Number	Mower/Tracotr Brand	Mo Type	VIN Number	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
36	Inersoll Rand	Port. Air Comp. MODEL P185	161921U87957		1238 hours	2033	Air Compressor
40	Champion	Welder Generator	B953325		225 hours	2036	Welder Generator
88	Falcon	Hot Box		2016	n/a	2036	Hot Box for patching
87		Hot Box			n/a	2020	Hot Box for patching
89		Hot Box			n/a	2019	Hot Box for patching
41		Pugmill Model 52	77546 A95		n/a	2025	Pugmill
42		Pugmill Generator	40025		3553 hours	2020	Pugmill Generator
43	Kolberg Pioneer	Pugmill Conveyor			n/a	2025	Conveyor for pugmill
55	Husqvarna	Concrete Saw	2015-4600150	2015	n/a	2035	Bridge deck/road saw
86A	Vermeer BC1500	Vermeer Wood Chipper	1VR2161V2D1005588	2013	1182 hours	2033	Wood Chipper
58	Challenger	Lowboy RG35 Trailer	1W8A11D2265122	2006	n/a	2031	Trailer
59	Rogers	Lowboy	15834	1972	n/a	2019	Trailer
60	Raven	Dump Trailer FST-28	1R1D428221G910067	2001	n/a	2026	Dump Trailer

Equipment replacement.

We will be receiving our new single axle truck with underbody next week. This will be replace truck #31 and assigned to the Koontz Lake area. Truck 31 will become one of our working spares.

We are currently soliciting updated quotes for a new tractor to replace tractor #75 as part of our gradual modernization of our mowing fleet. We originally sent out for quotes in August 2016. The new tractors are more versatile than the 1996 John Deeres because they will all be able to handle a brush cutting boom mower arm. We have requested quotes from:

Greenmark (John Deere) Knox, IN

Ronson Equipment (Kiota) Lowell/Westville IN
Macallister Cat (Massey Ferguson)
New Holland (New Holland) Rochester, IN

SIGNS

FACILITIES

Roof Repairs and Resealing

As weather permits the roofing contractors will be replacing the roof over the office area and resealing the garage area roof. The money for these repairs was allocated last year from monies received from permits, scrap, insurance reimbursements, etc..

Garage Reorganization and Parts Room Inventory.

Today we began reorganizing and cleaning the main garage area to prepare for this weekend's parts room inventory. We will be removing all the parts and then install new shelving. The parts will then be entered into our inventory program before being re-shelved.

New Salt/Sand Storage Building and Garage Addition

FUNDING REPORT

HB 1002

Alternative Funding sources