

Starke County Highway Department Monthly Report – February 5, 2018

Winter Operations

NOV. thru JAN. SNOW EVENTS

WINTER	SNOW EVENTS	SNOWFALL IN INCHES	PLOW HOURS	PLOW HOURS PER DRIVER	MILES CLEARED	MILES CLEARED PER HOUR PER DRIVER	SALT USED	SAND USED
2013/4	43	65.4	4268	264.86	80556	18.87	1342	6399
2014/5	14	8.55	1647	102.2	31623	19.2	626	2552
2015/6	14	13.13	1564	111.68	27352	17.49	693	3004
2016/7	18	15.32	2336	148.6	42323	18.11	928	3864
2017/8	31	17.5	4149	253.91	74640	17.99	1534	6086

BRINE USE

The last couple of days are a good indication of how salt brine applied to roadways before a storm can dramatically improve pavement conditions on a roadway during and after a snowfall. INDOT heavily pretreated their roads with brine last Friday. Their roads were clear and “wet” almost immediately after the snow stopped falling each day. In contrast our roads, despite our best efforts, are not clear and “wet”. We are still transitioning to where we can have a complete brine program. This will allow us to eliminate most of our sand use. Our goal is to have the brine program up and running this summer as we can also use the brine for dust control. Here are the steps we are taking to do this:

- 1) Installing a brine machine
- 2) Add a second sprayer truck
- 3) Meeting with an experienced INDOT maintenance supervisor who has over ten years of experience making INDOT facilities brine capable
- 4) Adding storage areas
- 5) Add a truck wash bay
- 6) Attend facility upgrade lecture at Road School

ROADWAY MANAGEMENT

- 1) 300E project (May 14, 2018)
- 2) Road improvement list (Hot Mix, Cold Mix, Chip Seal, Cold in plant recycling, and re-gravel)
- 3) Traffic counts
- 4) PASER ratings
- 5) Material 15000 tons of #11 stone are needed for the chip sealing and pug paving we are doing this summer. We currently have about 6500 tons in the yard.
- 6) Meeting this month with vendors to set up pilot projects involving both our cold mix asphalt (pug) paving and rejuvenating seals
- 7) Mowing/brush cutting. At the Farm Bureau policy meeting last week, they expressed their happiness with our enhanced R/W clearing.
- 8) Patching

BRIDGE MANAGEMENT

Current Bridge Projects

Priority	Bridge Number	Location	Sufficiency Rating	Status	Completion year
1	36	CR25N over Eagle Creek, .1 miles W of 600E	26.9	Construction begins in May 2018, Laporte Construction	2018
2	58	CR800S over Bogus Run, 0.02 miles E of CR200W	35.9	Construction begins in March 1st 2018, Laporte Construction	2018
3	154	CR100E over Robbins Ditch, .4m N of CR400N	47.1	Plans Complete, bid opening tentatively scheduled for April, 2018	2018
4	7	CR1200E over the Yellow River, .5M N of CR250S	35.2	JPR is 50% done with the design, we are looking at a July 2018 bid opening	2018

Bridge Inspections

- 1) Phase IIA of our current bridge inspection cycle is complete.
 - a) Only nine bridges on the list. Three were replaced last year, four are being replaced this year, and the last two we specifically asked to be put on the 12-month cycle
 - b) The last invoice for this cycle of bridge inspections is being paid this month to USI
- 2) We are meeting with our new bridge inspection consultant, United Consultants, on January 12th to discuss contract terms.

CULVERTS AND DRAINAGE

Culvert Inventory – Our construction inspector is inspecting all of our culverts this spring. While he is doing this, he is using GPS to add each pipe's exact location into our County's GIS system

ID	Township	Road Name	Location	Pipe Type	Diameter	Length	Condition	Latitude	Longitude	Comments	TMRecordNumber
4	North Bend	ROSEWOOD BLVD	ROSEWOOD BLVD & WILD ROSE DR W.S.	Corrigated Metal	15"	30_	Good	no entities	no entities	ENDS PLUGGED	0
5	North Bend	850S	600_ E/O 1175E	Corrigated Metal	72"	40_	Good	3121640.70	2160709.27		1
7	North Bend	900S	500_ E/O 1175E	Corrigated Metal	84"	50_	New	3121505.97	2158065.98	WASHING OUT NEEDS RIP RAP OR 2_s	3
8	North Bend	HACKBERRY	25_ E/O LINCOLN	Corrigated Metal	12" OR 15"	30_	Poor	3116259.24	2159266.50	PLUGGED NEEDS REPLACED	4
9	North Bend	HACKBERRY	200_ E/O BIRCH	Corrigated Metal	30"	30_	Very Good	3115216.73	2159251.40		5
10	North Bend	BIRCH	750_ N/O 900S	Corrigated Metal	30"	40_	Very Good	3115050.10	2158779.55		6
11	North Bend	900S	200_ W/O BIRCH	Corrigated Metal	30"	40_	Very Good	3114917.05	2158087.44		7

GIS

We met with Rhonda Milner of WTH and one of their technicians. We want to fully utilize the GIS system

- 1) Signs ---locations and conditions
- 2) Culverts---locations and conditions
- 3) Bridges---inspection data, maintenance schedule
- 4) Roadways---type, condition (PASER) and improvement year
- 5) Average Daily traffic counts
- 6) Fleetmatics GPS/AVL tie in

HIGHWAY FUNDING

On March 3, 2018 the Superintendent is going to speak at the Bass Lake Property Owners Association monthly meeting. They expressed a desire to see how the County is planning on using the additional funding made possible by last year's highway funding bill. He will show them a power point presentation that outlines the Department based on the asset management principles instituted in 2013. It will also show what the state of our roads and bridges were five years ago, what they are now, and what they will be ten years from now based on the current improvement and maintenance programs in each asset management category. On March 5th he will give that same presentation to the Board of Commissioners at their meeting.

TRAINING

Updated training schedule for 2018

- 2/8 **Storm Water Drainage Conference**—Attendees: Superintendent and Surveyor
- 3/5 to 3/7 **Purdue Road School**---Attendees: Superintendent, Operations Foreman
- 3/7 to 3/9 **Work Truck Show**---Attendees: Superintendent, Lead Mechanic, Garage Foreman
- 5/6 to 5/8 **APWA Snow Conference in Indianapolis**

Road Scholar and other LTAP classes (see chart for attendees)

- 3/5 #12 Estimating Local Road Maintenance Work
- April #8 Temporary Traffic workshops
- May #7 MUTCD workshops
- June Chainsaw Safety Class

	#1 Asset Management	#2 Liability and Risk	#3 Highway Funding	#4 Purchasing/Public Construction	#5 Roadway Safety	#6 Basics of a Good Road	#7 Temporary Traffic Control	#8 MUTCD	#9 Bridge Basics	#10 Drainage	#11 Road and Bridge Plan Reading	#12 Estimating Construction Costs	Total Points
Rik Ritzler	X	X	X	X	X	X	X	X	X	X	X	X	598
Dale Conley	X	X	X	X	X	X	X	S	X	X	S	S	393
Louis Sommerfield		x		x			x	x	x	x			346
Ralph Saine	x	x	x	x		x	x	x		x		x	341
Ricky Fisher	x	x		x		x	x	S			S	S	339
Bryon Fort							S	S					325
Bob Lorenz	X	X					X	X	X				321
Tony Dowd							S	S					320
Cary Jensen							S	S					304
Mike Atkins							X	S					188
Larry Ludwig		x		x		x	x	x		x		x	177
Francis Tibbs	x					x	x	x		x			161
George Pranger	x	x		x			x	x					151
Terry McDaniel	x						x	x					140
Rachel Oesterreich	X	X	X	X	X		X	S	X	X	S	S	137
Clinton Collins	x			x			X	X		X			117
Brendon Bailey							S	S					64
Nevin Miller							S	S					64
Keith Clapp		x		x			x	S					43
Adam Fort							x	S					40
Melvin Fisher Jr.							x	S					10
Eric Hatter							S	S					4
Stephen David							S	S					4
Jeremiah Muston							S	S					0
Gavin Majchrzak							S	S					0

Road Bulider Status at 300 points (all 12 classes are required)

Master Road Builder status at 600 points (all 12 classes required)

ADA

February 22, 2018 Attending INDOT's Community Advisory Working Group in Indianapolis

June Attending ADA conference for ADA coordinator training