



**NORTH AURORA VILLAGE BOARD MEETING  
MONDAY, SEPTEMBER 18, 2017 – 7:00 p.m.  
NORTH AURORA VILLAGE HALL - 25 E. STATE ST.**

**AGENDA**

**CALL TO ORDER - SILENT PRAYER - MEDITATION – PLEDGE OF ALLEGIANCE**

**ROLL CALL**

**PROCLAMATION**

1. National Suicide Prevention Awareness Month

**AUDIENCE COMMENTS**

**TRUSTEE COMMENTS**

**CONSENT AGENDA**

1. Village Board Minutes dated 8/21/2017
2. Interim Bills List dated 8/30/2017 in the Amount of **\$127,563.73**
3. Interim Bills List dated 9/14/2017 in the Amount of **\$26,650.00**
4. Bills List dated 09/18/2017 in the Amount of **\$209,888.31**
5. Resolution Approving the Final Plat of N.A. Lodgings Randall Crossing Subdivision
6. Ordinance Amending Title 16 of the North Aurora Municipal Code regarding Approved Parkway Trees

**NEW BUSINESS**

1. Approval of an Ordinance Amending Title 5 Chapter 5.36 of the North Aurora Municipal Code regarding Tattoo and Body Piercing Establishments
2. Approval of the Purchase of a 5-Yard Freightliner 108 SD Dump Truck and Plow Equipment in the Amount of **\$155,106.00** from Trans Chicago Truck Group through the State Bid Process
3. Approval of a Pavement Conditioning Assessment from MDS Technologies in the Amount of **\$22,950.00**.

4. Approval of a Bid for Police Security Cameras from Griffon Systems in the Amount of \$50,825.00

**OLD BUSINESS**

**VILLAGE PRESIDENT REPORT**

**COMMITTEE REPORTS**

**TRUSTEES' COMMENTS**

**ADMINISTRATOR'S REPORT**

**ATTORNEY'S REPORT**

**FIRE DISTRICT REPORT**

**VILLAGE DEPARTMENT REPORTS**

1. Finance
2. Community Development
3. Police
4. Public Works

**EXECUTIVE SESSION**

**ADJOURN**

Initials SB



## *PROCLAMATION*

### **September Is National Suicide Prevention Awareness Month**

**WHEREAS;** September is known as National Suicide Prevention Awareness Month which helps promote resources and awareness around the issues of suicide prevention. It teaches how to help others and how to talk about suicide without increasing the risk of harm; and

**WHEREAS;** Suicidal thoughts can affect anyone regardless of age, gender or background; and

**WHEREAS;** Suicide is the third leading cause of death among young people; and

**WHEREAS; North Aurora, Illinois** is no different than any other community in the country, but chooses to publicly state and place our full support behind local educators, mental health professionals, athletic coaches, scout leaders, and parents, as partners in supporting our community in being available to one another; and

**WHEREAS;** local and national organizations like Suicide Prevention Services are on the front lines of a battle that many still refuse to discuss in public; and

**WHEREAS,** the youth of our community should understand that throughout life's struggles we all need the occasional reminder that we are all fighting our own battles; and

**WHEREAS,** I encourage all residents to take the time to inquire as to the wellbeing of their family, friends, and neighbors over the next few days and to genuinely convey their appreciation for their existence by any gesture they deem appropriate.

**NOW, THEREFORE, BE IT PROCLAIMED** that I, Dale Berman, Village President, and the Board of Trustees of North Aurora do hereby proclaim the month of September 2017, as National Suicide Prevention Awareness Month in the Village of North Aurora.

Dated this \_\_\_\_ day of \_\_\_\_\_ 2017

\_\_\_\_\_  
Dale Berman, Village President

ATTEST:

\_\_\_\_\_  
Lori Murray, Village Clerk

**VILLAGE OF NORTH AURORA  
VILLAGE BOARD MEETING MINUTES  
AUGUST 21, 2017**

**CALL TO ORDER**

Mayor Berman called the meeting to order.

**SILENT PRAYER – MEDITATION – PLEDGE OF ALLEGIANCE**

**ROLL CALL**

**In attendance:** Mayor Dale Berman, Trustee Mark Gaffino, Trustee Tao Martinez and Trustee Mark Guethle, Village Clerk Lori Murray. **Not in attendance:** Trustee Mike Lowery, Trustee Laura Curtis, Trustee Mark Carroll.

**Staff in attendance:** Finance Director Bill Hannah, Community & Economic Development Director Mike Toth, Public Works Director John Laskowski, Police Chief David Fisher, Attorney Edward Boula III.

**AUDIENCE COMMENTS** - None

**TRUSTEE COMMENTS** – None

**CONSENT AGENDA**

1. Village Board Minutes dated 8/7/2017; Committee of the Whole Minutes dated 8/7/2017
2. Interim Bills List dated 8/4/2017 FY18 in the Amount of \$1,150.00
3. Interim Bills List dated 8/5/2017 FY18 in the Amount of \$992.00
4. Interim Bills List dated 8/8/2017 FY18 in the Amount of \$3,199.00
5. Interim Bills List dated 8/14/2017 FY17 in the Amount of \$65,695.55
6. Interim Bills List dated 8/14/2017 FY18 in the Amount of \$491.56
7. Bills List dated 8/21/2017 in the Amount of \$177,293.87
8. Ordinance Pertaining to the Prevailing Rates of Wages Effective September 1, 2017

Motion for approval made by Trustee Gaffino and seconded by Trustee Guethle. **Roll Call Vote:** Trustee Gaffino – yes, Trustee Guethle – yes, Trustee Martinez – yes. **Motion approved (3-0).**

**NEW BUSINESS**

1. **Approval of an Ordinance Amending the North Aurora Code Section 5.08.350 by Increasing the Number of Class D Liquor Licenses Authorized in the Village of North Aurora (Baapji Inc.)**

Motion for approval made by Trustee Guethle and seconded by Trustee Martinez. **Roll Call Vote:** Trustee Guethle – yes, Trustee Martinez – yes, Trustee Gaffino – yes. **Motion approved (3-0).**

2. **Approval of an Ordinance Amending the North Aurora Code Section 5.08.350 by Increasing the Number of Class B Liquor Licenses Authorized in the Village of North Aurora (Taco Madre)**

Motion for approval made by Trustee Gaffino and seconded by Trustee Guethle. **Roll Call Vote:** Trustee Gaffino – yes, Trustee Guethle – yes, Trustee Martinez – yes. **Motion approved (3-0).**

**3. Approval of a Resolution Approving Route 31 TIF Façade Grant Funding for the property located at 102 S. Lincolnway**

Motion for approval made by Trustee Guethle and seconded by Trustee Martinez. **Roll Call Vote:** Trustee Guethle – yes, Trustee Martinez – yes, Trustee Gaffino – yes. **Motion approved (3-0).**

**4. Approval of the Purchase of a New Ford F150 Pick-Up Truck in the Amount of \$25,748.09 from Fox Valley Ford**

Motion for approval made by Trustee Guethle and seconded by Trustee Martinez. **Roll Call Vote:** Trustee Guethle – yes, Trustee Martinez – yes, Trustee Gaffino – yes. **Motion approved (3-0).**

**OLD BUSINESS** - None

**VILLAGE PRESIDENT REPORT** - None

**COMMITTEE REPORTS** – None

**TRUSTEES' COMMENTS** – None

**ADMINISTRATOR'S REPORT** – None

**ATTORNEY'S REPORT** – None

**FIRE DISTRICT REPORT** – None

**DEPARTMENT REPORTS**

- 1. Finance** – The auditors started their field work today. Tentative numbers show another strong financial year for the Village.
- 2. Community Development** – None
- 3. Police** – None
- 4. Public Works** - None

**EXECUTIVE SESSION** - None

**ADJOURNMENT**

Motion to adjourn made by Trustee Guethle and seconded by Trustee Gaffino. All in favor. **Motion approved.**

Respectfully Submitted,

Lori J. Murray  
Village Clerk

# Accounts Payable

## To Be Paid Proof List

User: karolem  
Printed: 08/30/2017 - 12:30PM  
Batch: 00508.08.2017 - 08302017



Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
<b>Aflac</b>						
030540						
Employee Aflac/Sept 2017	225.58	01-000-2053	AFLAC	945243	8/30/2017	08/30/2017
Total:	225.58	<b>*Vendor Total</b>				
<b>AIM</b>						
046510						
Employee Flex/August 2017	168.00	01-430-4267	Finance Services	28245	8/29/2017	08/30/2017
Total:	168.00	<b>*Vendor Total</b>				
<b>Applied Concepts, Inc.</b>						
050970						
(4) New Radars	4,948.00	71-430-4870	Equipment	312061	8/30/2017	08/30/2017
Total:	4,948.00	<b>*Vendor Total</b>				
<b>Arch Printing</b>						
008800						
NA Days 2017 T-Shirts (12)	106.00	15-430-4751	North Aurora Days Expenses	120324	8/29/2017	08/30/2017
Total:	106.00	<b>*Vendor Total</b>				
<b>AT&amp;T Global Services, Inc.</b>						
023770						
Maintenance Contract September 2017	157.17	01-430-4651	Telephone	IL829658	8/29/2017	08/30/2017
Total:	157.17	<b>*Vendor Total</b>				
<b>AT&amp;T</b>						
001620						
Service/PWks Garage	178.13	01-445-4651	Telephone		8/29/2017	08/30/2017
Total:	178.13	<b>*Vendor Total</b>				
<b>Brian Reid</b>						
041970						
Meeting Fees (2)	100.00	01-439-4015	Police Csn Mtgs-per Diem	7/20, 8/15	8/29/2017	08/30/2017
Total:	100.00	<b>*Vendor Total</b>				
<b>C. O. P. S. Testing Service</b>						
010080						

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
New Officer Polygraph	160.00	01-439-4380	Recruit Testing	104318	8/29/2017	08/30/2017
Total:	160.00	*Vendor Total				
Camic Johnson, LTD.						
03989						
Adjudication Hearing 8/17/17	350.00	01-441-4506	Publishing	08172017	8/29/2017	08/30/2017
Total:	350.00	*Vendor Total				
Comcast Cable						
040740						
West Plant Internet Service	149.85	60-445-4652	Communications	09152017	8/29/2017	08/30/2017
TV Service/NAPD	10.53	01-440-4652	Communications	09162017	8/29/2017	08/30/2017
Internet Svcs/NAPD	307.19	01-440-4652	Communications	09262017	8/29/2017	08/30/2017
Total:	467.57	*Vendor Total				
Dynegy Energy Services						
048750						
Well #7 7/13 - 8/13	4,774.01	60-445-4662	Utility	0915059095	8/30/2017	08/30/2017
Well #4 7/10 - 8/7	6,035.15	60-445-4662	Utility	1383089059	8/30/2017	08/30/2017
Well #5 7/11 - 8/8	7,788.00	60-445-4662	Utility	3915126049	8/30/2017	08/30/2017
Well #3 7/10 - 8/7	1,301.61	60-445-4662	Utility	5587066023	8/30/2017	08/30/2017
Well #6 7/6 - 8/3	4,823.09	60-445-4662	Utility	6707024008	8/30/2017	08/30/2017
Total:	24,721.86	*Vendor Total				
Elisa L. Hatchett						
051830						
Meeting Fees (2)	100.00	01-439-4015	Police Csn Mtgs-per Diem	7/20, 8/15	8/29/2017	08/30/2017
Total:	100.00	*Vendor Total				
ETS Environmental & Associates, LLC						
052300						
Environmental Testing/11 John Street	475.00	12-438-4255	Engineering	7313	8/29/2017	08/30/2017
Total:	475.00	*Vendor Total				
Euclid Managers						
049670						
Empl ShortTerm Disability/Sept 2017	346.02	01-000-2057	Short-Term Disability	092017 std	8/29/2017	08/30/2017
Empl Voluntary Life/Sept 2017	438.90	01-000-2052	Voluntary Life Insurance	092017vol lf	8/29/2017	08/30/2017
Employee Life Ins/Sept 2017	18.00	01-430-4135	Life Insurance	9/2017 admn	8/29/2017	08/30/2017
Employee Life Ins/Sept 2017	13.14	01-441-4135	Life Insurance	9/2017 cd	8/29/2017	08/30/2017
Employee Life Ins/Sept 2017	102.60	01-440-4135	Life Insurance	9/2017 napd	8/29/2017	08/30/2017
Employee Life Ins/Sept 2017	36.00	01-445-4135	Life Insurance	9/2017 pwks	8/29/2017	08/30/2017
Employee Life Ins/Sept 2017	27.45	60-445-4135	Life Insurance	9/2017 water	8/29/2017	08/30/2017
Total:	982.11	*Vendor Total				
Foster & Foster, Inc.						
050630						

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Interim OBEB Valuation	1,000.00	01-430-4267	Finance Services	10986	8/29/2017	08/30/2017
Total:	1,000.00	<b>*Vendor Total</b>				
<b>Frega Painting &amp; Decorating Inc.</b>						
041770						
Clean, Paint Doors Etc. at Trmnt Plants	1,440.00	60-445-4567	Treatment Plant Repair/Maint	1290	8/30/2017	08/30/2017
Total:	1,440.00	<b>*Vendor Total</b>				
<b>Gordon Flesch Co Inc.</b>						
025070						
Copier Maintenance/CD	65.00	01-441-4510	Equipment/IT Maint	11995782	8/29/2017	08/30/2017
Total:	65.00	<b>*Vendor Total</b>				
<b>Harners Bakery And Restaurant</b>						
025570						
Donuts/Coffee w/ Mayor	14.55	01-410-4799	Misc. Expenditures	0606	8/30/2017	08/30/2017
Total:	14.55	<b>*Vendor Total</b>				
<b>James Palmatier</b>						
033440						
Refund Credit/Medicare Change/BCBS	5,138.86	01-000-2055	Payroll Deductions	082017	8/30/2017	08/30/2017
Total:	5,138.86	<b>*Vendor Total</b>				
<b>Kristen Lohrstorfer</b>						
032280						
Conference Reimbursement	507.48	01-440-4370	Conferences & Travel	06162017	8/29/2017	08/30/2017
Total:	507.48	<b>*Vendor Total</b>				
<b>Midwest Gang Investigators</b>						
016700						
Conference Attendance (5)	825.00	01-440-4370	Conferences & Travel	081017	8/29/2017	08/30/2017
Total:	825.00	<b>*Vendor Total</b>				
<b>Miner Electronics Corporation</b>						
3383						
Squad Repair	126.40	01-440-4511	Vehicle Repair and Maint	263550	8/29/2017	08/30/2017
Total:	126.40	<b>*Vendor Total</b>				
<b>Northern Illinois University</b>						
025190						
NIU Intern 3/16 - 5/31 2017	3,017.60	01-430-4280	Professional/Consulting Fees	16-409	8/29/2017	08/30/2017
Total:	3,017.60	<b>*Vendor Total</b>				



Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
<b>Oberweis Dairy</b>						
000220						
NA Days 2017/Food Reim Tickets	78.00	15-430-4751	North Aurora Days Expenses	na days 17	8/29/2017	08/30/2017
Total:	78.00	<b>*Vendor Total</b>				
<b>Office Depot</b>						
035720						
Flash Drives (10)	49.90	01-440-4411	Office Expenses	2096982353	8/29/2017	08/30/2017
Total:	49.90	<b>*Vendor Total</b>				
<b>Patten Industries, Inc.</b>						
030840						
Equipment Rental/NA Days 2017	6,123.48	15-430-4751	North Aurora Days Expenses	C2105801	8/30/2017	08/30/2017
Total:	6,123.48	<b>*Vendor Total</b>				
<b>Petty Cash</b>						
007570						
Dues/Meetings	45.00	01-440-4390	Dues & Meetings	082017-001	8/29/2017	08/30/2017
Office Expenses	15.00	01-440-4411	Office Expenses	082017-002	8/29/2017	08/30/2017
Community Service	6.07	01-440-4498	Community Service	082017-003	8/29/2017	08/30/2017
Postage	66.66	01-440-4505	Postage	082017-004	8/29/2017	08/30/2017
Misc.	38.00	01-440-4799	Misc.	082017-005	8/29/2017	08/30/2017
North Aurora Days	110.39	01-440-4799	Misc.	082017-006	8/29/2017	08/30/2017
Total:	281.12	<b>*Vendor Total</b>				
<b>Phil Jungels</b>						
039230						
Meeting Fees (2)	100.00	01-439-4015	Police Csn Mtgs-per Diem	7/20, 8/15	8/29/2017	08/30/2017
Total:	100.00	<b>*Vendor Total</b>				
<b>Ray O'Herron Co Inc</b>						
000940						
Baton Holders (2)	76.72	01-440-4870	Equipment	1730077	8/29/2017	08/30/2017
Total:	76.72	<b>*Vendor Total</b>				
<b>Secretary of State</b>						
002690						
Notary Bond Renewal/Ivanyi	10.00	01-440-4799	Misc.	ivanyi bond	8/29/2017	08/30/2017
Total:	10.00	<b>*Vendor Total</b>				
<b>Sun Life Financial</b>						
033620						
Employee Dental Ins/Sept 2017	243.55	01-430-4136	Dental Insurance	092017 admn	8/29/2017	08/30/2017
Employee Dental Ins/Sept 2017	90.31	01-441-4136	Dental Insurance	092017 cd	8/29/2017	08/30/2017
Employee Dental Ins/Sept 2017	1,573.86	01-000-2054	Insurance Employee Reimburse	092017 emp p	8/29/2017	08/30/2017
Employee Dental Ins/Sept 2017	694.17	01-440-4136	Dental Insurance	092017 napd	8/29/2017	08/30/2017
Employee Dental Ins/Sept 2017	185.01	01-445-4136	Dental Insurance	092017 pwks	8/29/2017	08/30/2017

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Employee Dental Ins/Sept 2017	189.00	60-445-4136	Dental Insurance	092017 water	8/29/2017	08/30/2017
Total:	2,975.90	*Vendor Total				
Thom Jungels						
039460						
Plumbing Inspections (57)	1,995.00	01-441-4276	Inspection Services	08282017	8/29/2017	08/30/2017
Total:	1,995.00	*Vendor Total				
United Healthcare						
051010						
Employee Health Ins/Sept 2017	7,152.86	01-430-4130	Health Insurance	092017 admn	8/29/2017	08/30/2017
Employee Health Ins/Sept 2017	3,233.48	01-441-4130	Health Insurance	092017 cd	8/29/2017	08/30/2017
Employee Health Ins/Sept 2017	955.60	01-000-2055	Payroll Deductions	092017 cobra	8/29/2017	08/30/2017
Employee Health Ins/Sept 2017	35,948.17	01-440-4130	Health Insurance	092017 napd	8/29/2017	08/30/2017
Employee Health Ins/Sept 2017	2,463.88	01-000-2055	Payroll Deductions	092017 polpei	8/29/2017	08/30/2017
Employee Health Ins/Sept 2017	9,830.61	01-445-4130	Health Insurance	092017 pwks	8/29/2017	08/30/2017
Employee Health Ins/Sept 2017	8,145.60	60-445-4130	Health Insurance	092017 water	8/29/2017	08/30/2017
Employee Health Ins/Sept 2017	1,810.87	01-000-2055	Payroll Deductions	092017rtrs/ck	8/29/2017	08/30/2017
Total:	69,541.07	*Vendor Total				
Verizon Wireless						
025430						
NAPD/EOC Lines	13.80	01-440-4652	Communications	9790951768-C	8/30/2017	08/30/2017
Cell Phone/Usage/PWks	65.42	01-445-4652	Communications	9790951768-C	8/30/2017	08/30/2017
Cell Phones/Usage/NAPD	224.76	01-440-4652	Communications	9790951769-C	8/30/2017	08/30/2017
Cell Phones/Usage/PWks	152.08	01-445-4652	Communications	9790951769-C	8/30/2017	08/30/2017
Cell Phones/Usage/Admn	52.91	01-430-4652	Communications	9790951769-C	8/30/2017	08/30/2017
Cell Phones/Usage/CD	57.06	01-441-4652	Communications	9790951769-C	8/30/2017	08/30/2017
Cell Phones/Usage/Water	89.13	60-445-4652	Communications	9790951769-C	8/30/2017	08/30/2017
Cell Phones/Usage/Admn	72.10	01-430-4652	Communications	9790951770-C	8/30/2017	08/30/2017
Cell Phones/Usage/NAPD	87.80	01-440-4652	Communications	9790951770-C	8/30/2017	08/30/2017
Cell Phones/Usage/PWks	101.86	01-445-4652	Communications	9790951770-C	8/30/2017	08/30/2017
Cell Phones/Usage/Water	67.81	60-445-4652	Communications	9790951770-C	8/30/2017	08/30/2017
Total:	984.73	*Vendor Total				
Weilandt Legal Document Svcs.						
038240						
Adjudication Hearing 8/17/17	73.50	01-441-4506	Publishing	17-828	8/29/2017	08/30/2017
Total:	73.50	*Vendor Total				
Report Total: 127,563.73						

# Accounts Payable

## To Be Paid Proof List

User: mflatt  
Printed: 09/14/2017 - 1:19PM  
Batch: 00314.09.2017



Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
<b>Morrow Brothers Ford, Inc.</b>						
035880						
Taurus/NAPD	26,650.00	71-430-4869	Vehicles		9/14/2017	09/14/2017
Total:	26,650.00	<b>*Vendor Total</b>				
Report Total:	26,650.00					

# Accounts Payable

## To Be Paid Proof List

User: bhannah  
 Printed: 09/14/2017 - 8:09AM  
 Batch: 00501.09.2017 - 09182017



Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Accela, Inc. #774375						
034670						
Web Payments/August 2017	892.00	60-445-4510	Equipment/IT Maint	33788	9/13/2017	09/18/2017
Total:	892.00	*Vendor Total				
Ace Hardware						
000030						
Nails	6.99	01-445-4543	Sidewalks Rpr & Mtce	K15335	9/13/2017	09/18/2017
Misc. Supplies	88.19	01-445-4510	Equipment/IT Maint	Various	9/13/2017	09/18/2017
Total:	95.18	*Vendor Total				
Aftermath, Inc.						
035660						
Cell Clean Up	105.00	01-440-4450	Prisoner Mtce & Supplies	JC2017-9619	9/12/2017	09/18/2017
Total:	105.00	*Vendor Total				
Anderson Pest Solutions						
019770						
Pest Control/VH	123.33	01-445-4520	Public Buildings Rpr & Mtce	441903	1/12/2017	09/18/2017
Pest Control/NAPD	91.00	01-445-4520	Public Buildings Rpr & Mtce	4443017	1/12/2017	09/18/2017
Pest Control/Treatment Plants	85.00	60-445-4567	Treatment Plant Repair/Maint	4443408	1/12/2017	09/18/2017
Total:	299.33	*Vendor Total				
Aurora Fastprint						
029610						
Permit Printing	152.24	01-441-4507	Printing	21186	9/12/2017	09/18/2017
Total:	152.24	*Vendor Total				
B & B Networks, Inc.						
039930						
Phone Line Work	663.13	01-440-4652	Communications	16961	9/12/2017	09/18/2017
Total:	663.13	*Vendor Total				
B & F Construction						
015600						
Inspections/July 2017	312.80	01-441-4276	Inspection Services	47307	9/12/2017	09/18/2017
Plan Review/Hotel	2,477.17	01-441-4276	Inspection Services	47324	9/12/2017	09/18/2017

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Total:	2,789.97	*Vendor Total				
Bonnell Industries						
035410						
Leaf Vactor Inspection/Truck #193	516.79	01-445-4511	Vehicle Repair and Maint	0175620	9/12/2017	09/18/2017
Total:	516.79	*Vendor Total				
Bulmaro Sanchez						
052340						
Refund of Credit/Deleted Water Acct	17.16	60-320-3340	Water Collections	1652 abngtn	9/13/2017	09/18/2017
Refund of Credit/Deleted Water Acct	1.21	18-320-3350	Sewer Collection	1652 abngtn s	9/13/2017	09/18/2017
Total:	18.37	*Vendor Total				
Butler Chemical Company, Inc.						
046060						
Monthly Trmt/VH and PD	200.00	01-445-4520	Public Buildings Rpr & Mtce	22584	9/12/2017	09/18/2017
Total:	200.00	*Vendor Total				
Buziecki, Scott						
015650						
Training Reimb	25.06	01-440-4380	Training	09072017	9/12/2017	09/18/2017
Total:	25.06	*Vendor Total				
C. O. P. S. Testing Service						
010080						
Pre-Employment Testing	450.00	01-439-4380	Recruit Testing	104320	9/12/2017	09/18/2017
Total:	450.00	*Vendor Total				
Canon Solutions America, Inc.						
034960						
Copier Maintenance/NAPD	159.58	01-440-4510	Equipment/IT Maint	4023598328	9/12/2017	09/18/2017
Total:	159.58	*Vendor Total				
Carus Corporation						
033300						
West Treatment Plant/Chemicals	1,912.50	60-445-4437	Chlorine	10061429	9/12/2017	09/18/2017
East Treatment Plant/Chemicals	3,052.50	60-445-4437	Chlorine	10061441	9/12/2017	09/18/2017
Total:	4,965.00	*Vendor Total				
CCS Contractor Equipment						
045420						
Repair Kit/Rebar/Stakes/Knee Pads	371.98	01-445-4543	Sidewalks Rpr & Mtce	116916	9/12/2017	09/18/2017
Repair Kit, Rebar	175.80	01-445-4543	Sidewalks Rpr & Mtce	118523	9/12/2017	09/18/2017
Total:	547.78	*Vendor Total				

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
<b>Cintas Corporation 636525</b>						
041590						
Fire Extinguisher Maintenance	833.81	01-445-4520	Public Buildings Rpr & Mtce	0F94516685	9/12/2017	09/18/2017
Fire Ext Insp/314&318 Bttrfld	110.70	01-445-4520	Public Buildings Rpr & Mtce	0F94516824	9/12/2017	09/18/2017
Fire Ext Insp/NAPD	1,153.32	01-445-4520	Public Buildings Rpr & Mtce	0F94516826	9/12/2017	09/18/2017
Total:	2,097.83	<b>*Vendor Total</b>				
<b>City of St. Charles</b>						
052310						
Drug Destruction	75.38	01-440-4557	Evidence Processing	4971	9/13/2017	09/18/2017
Total:	75.38	<b>*Vendor Total</b>				
<b>Coffman Truck Sales, Inc.</b>						
000320						
Safety Test/Truck #175	21.50	01-445-4511	Vehicle Repair and Maint	1001152566	9/13/2017	09/18/2017
Total:	21.50	<b>*Vendor Total</b>				
<b>Comcast Cable</b>						
040740						
East Trmnt Plant/Internet	149.85	60-445-4652	Communications	10062017	9/12/2017	09/18/2017
Total:	149.85	<b>*Vendor Total</b>				
<b>Commercial Tire Services, Inc.</b>						
038680						
Tire Disposal	14.00	01-445-4511	Vehicle Repair and Maint	3330015666	9/12/2017	09/18/2017
Tire Disposal	75.00	01-445-4511	Vehicle Repair and Maint	3330015705	9/12/2017	09/18/2017
Total:	89.00	<b>*Vendor Total</b>				
<b>Commonwealth Edison</b>						
000330						
Streetlight/Laurel & Butterfield	5.33	10-445-4660	Street Lighting and Poles	0445305000	9/12/2017	09/18/2017
Streetlight/355 Moorfield	7.95	10-445-4660	Street Lighting and Poles	0795092063	9/12/2017	09/18/2017
Streetlight/1197 Comiskey	7.95	10-445-4660	Street Lighting and Poles	0903075187	9/12/2017	09/18/2017
Streetlight/1193 Comiskey	7.95	10-445-4660	Street Lighting and Poles	1743032047	9/12/2017	09/18/2017
Streetlight/Various Locations	767.39	10-445-4660	Street Lighting and Poles	3771153008	9/12/2017	09/18/2017
Streetlight/211 River Rd	3,812.88	10-445-4660	Street Lighting and Poles	4007024020	9/12/2017	09/18/2017
Total:	4,609.45	<b>*Vendor Total</b>				
<b>Communications Revolving</b>						
007390						
IWIN	718.32	01-440-4652	Communications	T1803007	9/12/2017	09/18/2017
Total:	718.32	<b>*Vendor Total</b>				
<b>Don Mc Cue Chevrolet</b>						
032700						
(2) Squad Repairs/#79/#72	269.40	01-440-4511	Vehicle Repair and Maint	400030	9/12/2017	09/18/2017

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Total:	269.40	*Vendor Total				
Drendel & Jansons Law Group						
028580						
Comm Dev/Zoning/Annex	306.00	01-441-4260	Legal	082017 comm	9/12/2017	09/18/2017
General/TIF	327.25	12-438-4260	Legal	082017 gen ti	9/12/2017	09/18/2017
General/Admn/Fin	1,742.50	01-430-4260	Legal	082017 gen/ac	9/12/2017	09/18/2017
Police	1,666.00	01-440-4260	Legal	082017 napd	9/12/2017	09/18/2017
Phone Conference	55.00	01-441-4260	Legal	082017 rndl c	9/12/2017	09/18/2017
Verizon Upgrade Reinstall/Automall Tower	130.00	90-000-E231	Sittig Cortese LLC - Verizon	082017 verizo	9/12/2017	09/18/2017
Total:	4,226.75	*Vendor Total				
Dunteman Turf Farms, LLC						
036050						
Bluegrass Sod	10.00	01-445-4540	Streets & Alleys Rpr & Mtce	85481	9/12/2017	09/18/2017
Total:	10.00	*Vendor Total				
Dustcatchers & Logo Mat, Inc.						
023610						
Carpet/Towel Cleaning/PWks Garage	32.93	01-445-4520	Public Buildings Rpr & Mtce	37644	9/13/2017	09/18/2017
Carpet/Towel Cleaning/PWks Garage	32.93	01-445-4520	Public Buildings Rpr & Mtce	38207	9/13/2017	09/18/2017
Total:	65.86	*Vendor Total				
Feece Oil						
031060						
Mid-Grade Fuel	3,276.08	71-000-1340	Gas/Diesel Escrow	3497230	9/12/2017	09/18/2017
Diesel Fuel	961.17	71-000-1340	Gas/Diesel Escrow	3497231	9/12/2017	09/18/2017
Total:	4,237.25	*Vendor Total				
Fifth Third Bank						
028450						
Walgreens/Water Cases	9.13	01-430-4799	Misc.	BH082017-00	9/13/2017	09/18/2017
Dollar Tree/Tablecovers	16.13	15-430-4751	North Aurora Days Expenses	BH082017-00	9/13/2017	09/18/2017
GFOA/Budgeting Book	45.00	01-430-4380	Training & Testing	BH082017-00	9/13/2017	09/18/2017
Amazon/USB Drive/Monitor Cable	33.01	01-430-4411	Office Expenses	DA082017-00	9/13/2017	09/18/2017
Amazon/Tickets/Wristbands/NA Days	65.09	15-430-4751	North Aurora Days Expenses	DA082017-00	9/13/2017	09/18/2017
Amazon/Audio Wire/Jack	209.27	01-430-4870	Equipment	DA082017-00	9/13/2017	09/18/2017
Home Depot/Battery/Light Bulb	36.15	01-430-4411	Office Expenses	DA082017-00	9/13/2017	09/18/2017
Office depot/Supplies	31.58	01-440-4411	Office Expenses	DC082017-00	9/13/2017	09/18/2017
Office Depot/Supplies	5.99	01-440-4411	Office Expenses	DC082017-00	9/13/2017	09/18/2017
Office Depot/Supplies	18.98	01-440-4411	Office Expenses	DC082017-00	9/13/2017	09/18/2017
Office Depot/Paper/Toners	1,581.36	01-440-4411	Office Expenses	DC082017-00	9/13/2017	09/18/2017
Office Depot/Supplies	68.80	01-440-4411	Office Expenses	DC082017-00	9/13/2017	09/18/2017
Office Depot/Supplies	18.47	01-440-4411	Office Expenses	DC082017-00	9/13/2017	09/18/2017
Office Depot/Supplies	27.89	01-440-4411	Office Expenses	DC082017-00	9/13/2017	09/18/2017
Office Depot/Supplies	34.32	01-440-4411	Office Expenses	DC082017-00	9/13/2017	09/18/2017
Amazon/Batteries/Misc. Fitness	138.00	01-440-4799	Misc.	DC082017-00	9/13/2017	09/18/2017
Safe Kids/Tech Fee	50.00	01-440-4380	Training	JDL082017-0	9/13/2017	09/18/2017
Subway/Food for CERT/OEM	154.09	01-440-4799	Misc.	JDL082017-0	9/13/2017	09/18/2017
Lexis Nexis/Investigations Svcs	50.00	01-440-4555	Investigations	JDL082017-0	9/13/2017	09/18/2017
Self Parking/Chicago/Court	40.00	01-440-4799	Misc.	JDL082017-0	9/13/2017	09/18/2017

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Westin-Chicago/Conference	667.89	01-440-4370	Conferences & Travel	JG082017-00	9/13/2017	09/18/2017
Rock Auto/Police Car Repair	49.77	01-440-4511	Vehicle Repair and Maint	JL082017-00	9/13/2017	09/18/2017
Machianos Pizza/ILRMA Training	97.67	01-445-4380	Training	JL082017-00	9/13/2017	09/18/2017
Schnucks/Drinks/Ice/ILRMA Training	18.82	01-445-4380	Training	JL082017-00	9/13/2017	09/18/2017
Subway/Food/ILRMA Training	79.98	01-445-4380	Training	JL082017-00	9/13/2017	09/18/2017
CVS/CD Lobby Pictures	44.60	01-441-4799	Misc. Expenditures	MT082017-00	9/13/2017	09/18/2017
Amazon/Batteries/Misc. Fitness	782.79	60-445-4870	Equipment	PY082017-00	9/13/2017	09/18/2017
Tribune/Garage Sales Ad/NA Days	0.26	15-430-4751	North Aurora Days Expenses	SB082017-00	9/13/2017	09/18/2017
Tribune/Garage Sales Ad/NA Days	82.18	15-430-4751	North Aurora Days Expenses	SB082017-00	9/13/2017	09/18/2017
ICMA/Annual Dues/Bosco	339.75	01-430-4390	Dues & Meetings	SB082017-00	9/13/2017	09/18/2017
KidzJump/NA Days Bounce Houses	25.00	15-430-4751	North Aurora Days Expenses	SB082017-00	9/13/2017	09/18/2017
KidzJump/NA Days Bounce Houses	316.00	15-430-4751	North Aurora Days Expenses	SB082017-00	9/13/2017	09/18/2017
Beaver Creek/NA Days Golf Carts	915.00	15-430-4751	North Aurora Days Expenses	SB082017-00	9/13/2017	09/18/2017
Big Top/NA Days Vendor Booths	1,016.00	15-430-4751	North Aurora Days Expenses	SB082017-00	9/13/2017	09/18/2017
Lang Ice Co/NA Days Vendor Ice	352.50	15-430-4751	North Aurora Days Expenses	SB082017-00	9/13/2017	09/18/2017
Midwest Awards/Police Chief Name Plate	7.95	01-430-4411	Office Expenses	SB082017-00	9/13/2017	09/18/2017
Total:	7,429.42	*Vendor Total				
Foltz Travis L.						
027370						
Training Reimb	59.60	01-440-4380	Training	08222017	9/12/2017	09/18/2017
Total:	59.60	*Vendor Total				
Fox Metro Water Reclamation						
000170						
Sewer Bill/VH	107.46	01-445-4662	Utility	N02-0164	9/12/2017	09/18/2017
Sewer Bill/PWks Garage	11.94	01-445-4662	Utility	N02-5182	9/12/2017	09/18/2017
Sewer Bill/NAPD	11.94	01-445-4662	Utility	N02-5784	9/12/2017	09/18/2017
Total:	131.34	*Vendor Total				
Fox Valley Tree Service, Inc.						
024480						
(5) Tree Removals/(2) Stump Grining	1,300.00	01-445-4532	Tree Service	NAU034	9/12/2017	09/18/2017
Total:	1,300.00	*Vendor Total				
Frost Electric Company, Inc.						
021540						
Install Outside Lights/VH	365.00	01-445-4520	Public Buildings Rpr & Mtce	7160	9/12/2017	09/18/2017
Replacement Panel Covers/VH	1,259.00	01-445-4520	Public Buildings Rpr & Mtce	7161	9/12/2017	09/18/2017
Streetlight Repairs/Various Locations	2,081.00	10-445-4661	Street Light Repair/Maint	7162	9/12/2017	09/18/2017
Streetlight Repairs	2,540.00	10-445-4660	Street Lighting and Poles	7180	9/12/2017	09/18/2017
Total:	6,245.00	*Vendor Total				
Green Thumb-Brown Boots						
043270						
Mowing/Various Loc/June 2017	218.00	01-441-4531	Grass Cutting	694	9/12/2017	09/18/2017
Total:	218.00	*Vendor Total				



Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
<b>Hach Company</b>						
014100						
Chlorine Reagents for Treatment Plants	563.57	60-445-4567	Treatment Plant Repair/Maint	10599837	9/12/2017	09/18/2017
Chemicals for Testing	66.45	60-445-4567	Treatment Plant Repair/Maint	10606310	9/12/2017	09/18/2017
Total:	630.02	<b>*Vendor Total</b>				
<b>HD Supply Waterworks, LTD.</b>						
039040						
(2) Flange Valve Gaskets	6.00	60-445-4567	Treatment Plant Repair/Maint	H667500	9/12/2017	09/18/2017
Total:	6.00	<b>*Vendor Total</b>				
<b>Hook-Fast Specialties, Inc</b>						
010410						
New Officer Name Tags	40.26	01-440-4160	Uniform Allowance	322625	9/12/2017	09/18/2017
Total:	40.26	<b>*Vendor Total</b>				
<b>ILLCO Inc.</b>						
040110						
Check Valves/Treatment Plants	155.38	60-445-4567	Treatment Plant Repair/Maint	1323373	9/13/2017	09/18/2017
Total:	155.38	<b>*Vendor Total</b>				
<b>Illinois Homicide Investigators Assn</b>						
043870						
Conference/Dilley/Shillair/Swoboda	585.00	01-440-4370	Conferences & Travel	10112017	9/12/2017	09/18/2017
Total:	585.00	<b>*Vendor Total</b>				
<b>Illinois Public Works</b>						
039690						
2017 Annual Membership Dues	250.00	01-445-4390	Dues & Meetings	2246	9/13/2017	09/18/2017
Total:	250.00	<b>*Vendor Total</b>				
<b>Interactive Building Solutions, LLC</b>						
050600						
Return Water Temp Sensor/Boiler	2,900.00	01-445-4520	Public Buildings Rpr & Mtce	104947	9/13/2017	09/18/2017
Total:	2,900.00	<b>*Vendor Total</b>				
<b>Janco Chemical Supply, Inc</b>						
000660						
Custodial Supplies//NAPD	149.30	01-445-4421	Custodial Supplies	273074	9/12/2017	09/18/2017
Total:	149.30	<b>*Vendor Total</b>				
<b>JSN Contractors Supply</b>						
041440						
Blade	269.00	01-445-4870	Equipment	81190	9/13/2017	09/18/2017

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Total:	269.00	*Vendor Total				
Judges LLC						
039730						
Squad Washes/August 2017	175.00	01-440-4511	Vehicle Repair and Maint	082017	9/12/2017	09/18/2017
Total:	175.00	*Vendor Total				
Kane County Recorder						
010600						
Recording/Liens/Releases	47.00	01-441-4506	Publishing	08022017	9/13/2017	09/18/2017
Recording/Release	47.00	01-430-4506	Publishing/Advertising	08232017	9/13/2017	09/18/2017
Total:	94.00	*Vendor Total				
Kathryn Mccoy						
032930						
Training Reimb	48.61	01-440-4380	Training	09012017	9/13/2017	09/18/2017
Total:	48.61	*Vendor Total				
Kendall County Concrete						
047060						
Sidewalk/Terry	187.00	01-445-4543	Sidewalks Rpr & Mtce	42767	9/12/2017	09/18/2017
Sidewalk/Andrew	345.88	01-445-4543	Sidewalks Rpr & Mtce	42798	9/12/2017	09/18/2017
Sidewalk/Jessica & Pine Creek	255.50	01-445-4543	Sidewalks Rpr & Mtce	42834	9/12/2017	09/18/2017
Sidewalk/Graham	187.00	01-445-4543	Sidewalks Rpr & Mtce	42851	9/12/2017	09/18/2017
Sidewalk/Silver Trail	289.76	01-445-4543	Sidewalks Rpr & Mtce	42863	9/12/2017	09/18/2017
Sidewalk/Silver Trail	289.76	01-445-4543	Sidewalks Rpr & Mtce	42882	9/12/2017	09/18/2017
Total:	1,554.90	*Vendor Total				
Kluber Inc.						
041880						
HVAC/NAPD	366.40	01-445-4255	Engineering	6174	9/12/2017	09/18/2017
Engineering/LED's	840.00	21-454-4255	Engineering	6182	9/12/2017	09/18/2017
Total:	1,206.40	*Vendor Total				
Kristen Lohrstorfer						
032280						
Training Reimb	15.00	01-440-4380	Training	09012017	9/12/2017	09/18/2017
Total:	15.00	*Vendor Total				
Kurt Metallo						
050030						
(30) Stump Removals/Disposal/Seed	2,400.00	01-445-4532	Tree Service	08272017	9/13/2017	09/18/2017
Total:	2,400.00	*Vendor Total				
Lafarge North America						
033690						

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Gravel	613.09	01-445-4540	Streets & Alleys Rpr & Mtce	707722995	9/12/2017	09/18/2017
Total:	613.09	*Vendor Total				
Lakeshore Recycling Systems						
032620						
Street Sweeping/NA Days 2017	1,564.00	15-430-4751	North Aurora Days Expenses	13795	9/13/2017	09/18/2017
Total:	1,564.00	*Vendor Total				
LeadsOnline LLC						
044200						
Investigation Database	2,848.00	01-440-4555	Investigations	242621	9/12/2017	09/18/2017
Total:	2,848.00	*Vendor Total				
Maggie McGrath						
050120						
Training Reimb	9.77	01-440-4380	Training	08222017	9/12/2017	09/18/2017
Training Reimb	11.17	01-440-4380	Training	09072017	9/12/2017	09/18/2017
Total:	20.94	*Vendor Total				
Manko, Gregory						
014230						
Training Reimb	10.14	01-440-4380	Training	09072017	9/12/2017	09/18/2017
Training Reimb	10.20	01-440-4380	Training	0908217	9/12/2017	09/18/2017
Total:	20.34	*Vendor Total				
Marberry Cleaners						
008430						
Blanket Cleaning	56.00	01-440-4450	Prisoner Mtce & Supplies	79501/73771	9/12/2017	09/18/2017
Total:	56.00	*Vendor Total				
Maria Padilla						
052360						
Refund of Credit/Deleted Water Acct	23.10	60-320-3340	Water Collections	2688 mcdff	9/13/2017	09/18/2017
Refund of Credit/Deleted Water Acct	1.75	18-320-3350	Sewer Collection	2688 mcdff sv	9/13/2017	09/18/2017
Total:	24.85	*Vendor Total				
Mark Shillair						
032310						
Training Reimb	160.05	01-440-4380	Training	08252017	9/12/2017	09/18/2017
Total:	160.05	*Vendor Total				
Menards						
016070						
Treatment Plant Door Sweeps/Misc.	97.92	60-445-4567	Treatment Plant Repair/Maint	66256	9/12/2017	09/18/2017
Door Sweeps	24.27	01-445-4520	Public Buildings Rpr & Mtce	66321	9/12/2017	09/18/2017
Masonry Bit	13.97	01-445-4543	Sidewalks Rpr & Mtce	66323	9/12/2017	09/18/2017

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Treatment Plant Tools/Materials	145.38	60-445-4567	Treatment Plant Repair/Maint	66324	9/12/2017	09/18/2017
LP Tank/Misc. Parts	30.83	60-445-4799	Misc. Expenditures	66331	9/12/2017	09/18/2017
PVC Plug	4.98	01-445-4544	Storm Drain Maintenance	66398	9/12/2017	09/18/2017
Bucket/Hammer/Etc.	174.14	01-445-4870	Equipment	66501	9/12/2017	09/18/2017
Tools	19.23	60-445-4567	Treatment Plant Repair/Maint	66730	9/12/2017	09/18/2017
Treatment Plant Tools/Parts	59.77	60-445-4567	Treatment Plant Repair/Maint	66966	9/12/2017	09/18/2017
Total:	570.49	*Vendor Total				
Michael R. Quinn						
033280						
Training Reimb	12.00	01-440-4380	Training	08142017	9/12/2017	09/18/2017
Total:	12.00	*Vendor Total				
Mid American Water						
013680						
Brick/Water Stopper	85.50	01-445-4544	Storm Drain Maintenance	140045A	9/12/2017	09/18/2017
Misc. Parts	595.96	01-445-4544	Storm Drain Maintenance	140167A	9/12/2017	09/18/2017
Total:	681.46	*Vendor Total				
MidAmerican Technology, Inc.						
049550						
Julie Locator Equipment	2,140.00	01-445-4870	Equipment	12109 pwks	9/12/2017	09/18/2017
Julie Locator Equipment	2,140.00	60-445-4870	Equipment	12109 wtr	9/12/2017	09/18/2017
Locator Update	330.00	01-445-4510	Equipment/IT Maint	12127	9/12/2017	09/18/2017
Total:	4,610.00	*Vendor Total				
Mooney & Thomas, Pc						
001040						
Payroll Services (3) August 2017	870.00	01-430-4267	Finance Services	8173101	9/13/2017	09/18/2017
Police Pension Payments/Sept 2017	60.00	80-430-4581	Banking Services/Fees	8173105	9/13/2017	09/18/2017
Total:	930.00	*Vendor Total				
North Aurora NAPA, Inc.						
038730						
Brake Pads/Rotors/Truck #166	173.41	01-445-4511	Vehicle Repair and Maint	271247	9/12/2017	09/18/2017
Battery/Truck #166	113.81	01-445-4511	Vehicle Repair and Maint	271517	9/12/2017	09/18/2017
Water Pump/Truck #166	44.99	01-445-4511	Vehicle Repair and Maint	272074	9/12/2017	09/18/2017
Total:	332.21	*Vendor Total				
North East Multi-Regional						
001520						
Training Class/Robinson	125.00	01-440-4380	Training	223624	9/13/2017	09/18/2017
Training Class/Quinn/Gorski	300.00	01-440-4380	Training	223713	9/13/2017	09/18/2017
Training Class/Nordstrom	125.00	01-440-4380	Training	223804	9/13/2017	09/18/2017
Training Class/Brown/Puscas	510.00	01-440-4380	Training	224304	9/13/2017	09/18/2017
Total:	1,060.00	*Vendor Total				

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Office Depot						
039370						
Calculator/Memo Pad	11.79	01-430-4411	Office Expenses	2092288755-(9/13/2017		09/18/2017
Cash Box/Safe/NA Days 2017	177.97	15-430-4751	North Aurora Days Expenses	2092288755-(9/13/2017		09/18/2017
Misc Sppls	69.13	01-430-4411	Office Expenses	94865602800 9/13/2017		09/18/2017
Misc Sppls	69.13	01-441-4411	Office Expenses	94865602800 9/13/2017		09/18/2017
Misc Sppls	69.13	01-445-4411	Office Expenses	94865602800 9/13/2017		09/18/2017
Misc Sppls	69.14	60-445-4411	Office Expenses	94865602800 9/13/2017		09/18/2017
Misc Sppls	41.94	01-430-4411	Office Expenses	94984333900 9/13/2017		09/18/2017
Misc Sppls	41.94	01-441-4411	Office Expenses	94984333900 9/13/2017		09/18/2017
Misc Sppls	41.93	01-445-4411	Office Expenses	94984333900 9/13/2017		09/18/2017
Misc Sppls	41.94	60-445-4411	Office Expenses	94984333900 9/13/2017		09/18/2017
Misc Sppls	18.07	01-430-4411	Office Expenses	95008041400 9/13/2017		09/18/2017
Misc Sppls	18.09	01-441-4411	Office Expenses	95008041400 9/13/2017		09/18/2017
Misc Sppls	18.09	01-445-4411	Office Expenses	95008041400 9/13/2017		09/18/2017
Misc Sppls	18.07	60-445-4411	Office Expenses	95008041400 9/13/2017		09/18/2017
Misc Sppls/Highlighters	29.10	01-430-4411	Office Expenses	95135041500 9/13/2017		09/18/2017
Misc Sppls	7.31	01-441-4411	Office Expenses	95135041500 9/13/2017		09/18/2017
Misc Sppls	7.31	01-445-4411	Office Expenses	95135041500 9/13/2017		09/18/2017
Misc Sppls	7.31	60-445-4411	Office Expenses	95135041500 9/13/2017		09/18/2017
Misc Sppls	13.56	01-430-4411	Office Expenses	95178610600 9/13/2017		09/18/2017
Misc Sppls	13.57	01-441-4411	Office Expenses	95178610600 9/13/2017		09/18/2017
Misc Sppls	13.57	01-445-4411	Office Expenses	95178610600 9/13/2017		09/18/2017
Misc Sppls	13.57	60-445-4411	Office Expenses	95178610600 9/13/2017		09/18/2017
Coffee	11.10	01-430-4411	Office Expenses	95355172800 9/13/2017		09/18/2017
Coffee	11.08	01-441-4411	Office Expenses	95355172800 9/13/2017		09/18/2017
Coffee	11.10	01-445-4411	Office Expenses	95355172800 9/13/2017		09/18/2017
Coffee	11.10	60-445-4411	Office Expenses	95355172800 9/13/2017		09/18/2017
Coffee/Sugar/Misc. Sppls	36.62	01-430-4411	Office Expenses	95355187700 9/13/2017		09/18/2017
Coffee/Sugar/Misc. Sppls	89.18	01-441-4411	Office Expenses	95355187700 9/13/2017		09/18/2017
Coffee/Sugar/Misc. Sppls	36.62	01-445-4411	Office Expenses	95355187700 9/13/2017		09/18/2017
Coffee/Sugar/Misc. Sppls	36.62	60-445-4411	Office Expenses	95355187700 9/13/2017		09/18/2017
Kitchen Supplies	8.58	01-430-4411	Office Expenses	95409824900 9/13/2017		09/18/2017
Kitchen Supplies/Gloves	49.76	01-441-4411	Office Expenses	95409824900 9/13/2017		09/18/2017
Kitchen Supplies	8.58	01-445-4411	Office Expenses	95409824900 9/13/2017		09/18/2017
Kitchen Supplies	8.58	60-445-4411	Office Expenses	95409824900 9/13/2017		09/18/2017
Planner/Misc Sppls	44.97	01-430-4411	Office Expenses	95641698800 9/13/2017		09/18/2017
Misc Sppls	20.00	01-441-4411	Office Expenses	95641698800 9/13/2017		09/18/2017
Misc Sppls	20.00	01-445-4411	Office Expenses	95641698800 9/13/2017		09/18/2017
Misc Sppls	20.00	60-445-4411	Office Expenses	95641698800 9/13/2017		09/18/2017
Copy Paper	19.75	01-430-4411	Office Expenses	95913884700 9/13/2017		09/18/2017
Copy Paper/Organizer	25.74	01-441-4411	Office Expenses	95913884700 9/13/2017		09/18/2017
Copy Paper/Highlighters	28.60	01-445-4411	Office Expenses	95913884700 9/13/2017		09/18/2017
Copy Paper	19.75	60-445-4411	Office Expenses	95913884700 9/13/2017		09/18/2017
Total:	1,329.39	*Vendor Total				
Operating Engineers Local #150						
052320						
Local 150 Training	2,880.00	01-445-4380	Training	#1 PWks	9/13/2017	09/18/2017
Local 150 Training	1,440.00	60-445-4380	Training	#1 Water	9/13/2017	09/18/2017
Total:	4,320.00	*Vendor Total				
Paddock Publications, Inc.						
026910						
Legal Ad/Bids/Parkway Trees	82.80	01-445-4506	Publishing	T4481448	9/13/2017	09/18/2017

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Total:	82.80	*Vendor Total				
Paddock Publications						
044240						
Subscription thru 10/14/17	58.00	01-410-4411	Office Expenses	T4481448	9/13/2017	09/18/2017
Total:	58.00	*Vendor Total				
Paul Zurn						
052330						
Refund of Credit/Deleted Water Acct	288.32	60-320-3340	Water Collections	614 hddn crk	9/13/2017	09/18/2017
Refund of Credit/Deleted Water Acct	12.29	18-320-3350	Sewer Collection	614 hddn crk	9/13/2017	09/18/2017
Total:	300.61	*Vendor Total				
Performance Chemical & Supply, Inc.						
048030						
Custodial Supplies/VH	286.92	01-445-4421	Custodial Supplies	214311	9/12/2017	09/18/2017
Custodial Supplies/NAPD	225.93	01-445-4421	Custodial Supplies	214312	9/12/2017	09/18/2017
Total:	512.85	*Vendor Total				
Ray O'Herron Co Inc						
000940						
Award Pin	29.40	01-440-4160	Uniform Allowance	1746220	9/12/2017	09/18/2017
Total:	29.40	*Vendor Total				
Regan Miller						
052350						
Refund of Credit/Deleted Water Acct	115.40	60-320-3340	Water Collections	2625 moutray	9/13/2017	09/18/2017
Refund of Credit/Deleted Water Acct	10.85	18-320-3350	Sewer Collection	2625 moutray	9/13/2017	09/18/2017
Total:	126.25	*Vendor Total				
Rempe Sharpe & Associates						
000970						
July 2017/General	262.10	01-441-4255	Engineering	25858	9/12/2017	09/18/2017
July 2017/Lot Grading	97.00	01-441-4276	Inspection Services	25859	9/12/2017	09/18/2017
July 2017/E Tower/T-Mobile	514.03	90-000-E230	Smartlink-T Mobile-Butterfield	25860 t mobil	9/12/2017	09/18/2017
July 2017/Road Prog/10 Yr	285.10	21-450-4255	Engineering	25861	9/12/2017	09/18/2017
July 2017/Well #8 Drilling	27,241.00	60-470-4255	Engineering	25862	9/12/2017	09/18/2017
July 2017/Well #8 Design/Trans Main	2,173.50	60-470-4255	Engineering	25863	9/12/2017	09/18/2017
July 2017/Liberty Bus Center	165.82	90-000-E137	Liberty Properties	25864 liberty	9/12/2017	09/18/2017
July 2017/Rndll Rd STP	955.00	21-450-4255	Engineering	25865	9/12/2017	09/18/2017
July 2017/AMC Dolan Redev	80.50	90-000-E223	310 S Lincolnway	25866 amc do	9/12/2017	09/18/2017
July 2017/Airport Rd Imprv	9,282.40	21-450-4255	Engineering	25867	9/12/2017	09/18/2017
July 2017/Springs @ Orch Rd	934.99	90-000-E222	Springs at Orchard Rd	25868 springs	9/12/2017	09/18/2017
July 2017/Opus E Warehouse	515.63	90-000-E093	OPUS - Industrial Park	25869 opus e	9/12/2017	09/18/2017
July 2017/Automall Paint Project	1,054.50	60-445-4255	Engineering	25870 AM pa	9/12/2017	09/18/2017
July 2017/Verizon Upgrade	136.67	90-000-E231	Sittig Cortese LLC - Verizon	25870 vrzn up	9/12/2017	09/18/2017
July 2017/Fox Valley/DR Horton	389.13	90-000-E232	DR Horton - FV Golf Course	25871 dr horti	9/12/2017	09/18/2017
July 2017/Street Program '17	15,722.16	21-450-4255	Engineering	25872	9/12/2017	09/18/2017
July 2017/Rndll Hghlnds Hotel	806.61	90-000-E055	NA Lodging 1, LLC	25873 rndl ho	9/12/2017	09/18/2017

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
<hr/>						
Total:	60,616.14	<b>*Vendor Total</b>				
<b>Russo Power Equipment Inc.</b>						
036290						
Brooms	60.95	01-445-4870	Equipment	4350342	9/12/2017	09/18/2017
Switch/Filter/Spark Plug	18.00	01-445-4511	Vehicle Repair and Maint	4383957	9/12/2017	09/18/2017
Saw/16" Wheel	1,100.00	01-445-4870	Equipment	4387307	9/12/2017	09/18/2017
<hr/>						
Total:	1,178.95	<b>*Vendor Total</b>				
<b>Ryan Herco Products, Corp.</b>						
044700						
(2) New Brine Pumps/Trmnt Plants	654.24	60-445-4567	Treatment Plant Repair/Maint	8749612	9/12/2017	09/18/2017
<hr/>						
Total:	654.24	<b>*Vendor Total</b>				
<b>SFVCTC</b>						
027530						
2nd Quarter 2017 Franchise Fee	23,847.53	01-490-4789	Public Access Cable	NA2Q2017	9/13/2017	09/18/2017
<hr/>						
Total:	23,847.53	<b>*Vendor Total</b>				
<b>SHI International Corp.</b>						
047000						
(7) Getac Laptops/NAPD	16,066.61	71-430-4870	Equipment	B06940465	9/13/2017	09/18/2017
(7) Getac Warranties/NAPD	1,825.39	71-430-4870	Equipment	B06943395	9/13/2017	09/18/2017
(3) Laptops	1,834.26	71-430-4870	Equipment	B06969487	9/13/2017	09/18/2017
<hr/>						
Total:	19,726.26	<b>*Vendor Total</b>				
<b>Somonauk Water Lab, Inc.</b>						
030510						
Monthly Samples/Lead & Copper/DBP	1,113.50	60-445-4562	Testing (water)	170824	9/12/2017	09/18/2017
<hr/>						
Total:	1,113.50	<b>*Vendor Total</b>				
<b>Teska Associates, Inc.</b>						
024820						
Meeting/Golf Course Concept	278.55	90-000-E232	DR Horton - FV Golf Course	7963	9/12/2017	09/18/2017
<hr/>						
Total:	278.55	<b>*Vendor Total</b>				
<b>Third Millennium Assoc. , Inc.</b>						
033470						
August Newsletter	1,734.79	01-430-4507	Printing	21147 nwsltr	9/13/2017	09/18/2017
August Water Bills	1,990.10	60-445-4507	Printing	21147 wtr blls	9/13/2017	09/18/2017
<hr/>						
Total:	3,724.89	<b>*Vendor Total</b>				
<b>Traffic Control &amp; Protection</b>						
021520						
NA Days 17/Message Boards/Signs	5,889.00	15-430-4751	North Aurora Days Expenses	23612	9/12/2017	09/18/2017
Crossing Sign and Hardware	300.00	01-445-4545	Traffic Signs & Signals	90194	9/12/2017	09/18/2017

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
(2) Child Signs	254.50	01-445-4545	Traffic Signs & Signals	90239	9/12/2017	09/18/2017
Total:	6,443.50	<b>*Vendor Total</b>				
<b>UPS</b>						
051420						
Shipping/Water	24.91	60-445-4505	Postage	0000Y7479E3	9/12/2017	09/18/2017
Total:	24.91	<b>*Vendor Total</b>				
<b>Vermeer Midwest</b>						
031800						
Guide Bar	71.90	01-445-4510	Equipment/IT Maint	PB4318	9/13/2017	09/18/2017
Total:	71.90	<b>*Vendor Total</b>				
<b>W.E. Hannah Surveyors</b>						
051850						
Survey/Plat Prep/John Street	1,100.00	12-438-4280	Professional/Consulting Fees	26352	9/12/2017	09/18/2017
Plat of Dedication/Marvo St	400.00	12-438-4280	Professional/Consulting Fees	26353	9/12/2017	09/18/2017
Total:	1,500.00	<b>*Vendor Total</b>				
<b>Waste Management</b>						
016240						
(2000) Waste Stickers	7,420.00	01-000-2217	Waste Management Escrow	3716601-20119	9/13/2017	09/18/2017
Total:	7,420.00	<b>*Vendor Total</b>				
<b>Water Products Company</b>						
001170						
(16) New Dual Checks	951.96	60-445-4480	New Meters,rprs. & Rplcmts.	0275198	9/12/2017	09/18/2017
Hydrant Wrench	60.00	60-445-4563	Fire Hydrant Repair/maint	0275237	9/12/2017	09/18/2017
Total:	1,011.96	<b>*Vendor Total</b>				
<b>Water Resources</b>						
010380						
(18) New Meters	2,440.00	60-445-4480	New Meters,rprs. & Rplcmts.	31634	9/12/2017	09/18/2017
(40) New MIU's	4,400.00	60-445-4480	New Meters,rprs. & Rplcmts.	31663	9/12/2017	09/18/2017
Total:	6,840.00	<b>*Vendor Total</b>				
<b>Weblinx Incorporated</b>						
031420						
Annual Website Hosting/Domain Pointer	420.00	01-430-4512	Website Maintenance	25015	9/13/2017	09/18/2017
Website Mtce/Sept 2017	200.00	01-430-4512	Website Maintenance	25035	9/13/2017	09/18/2017
Total:	620.00	<b>*Vendor Total</b>				
<b>Winzer Corporation</b>						
047560						
Cleaning Cloths	156.00	01-445-4421	Custodial Supplies	5926595	9/12/2017	09/18/2017



Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
<hr/>						
Total:	156.00	*Vendor Total				
Xerox Corporation						
040890						
Copier Maintenance	85.00	01-440-4510	Equipment/IT Maint	090395328	9/12/2017	09/18/2017
Total:	85.00	*Vendor Total				
Report Total:	209,888.31					
<hr/>						

VILLAGE OF NORTH AURORA



VILLAGE OF NORTH AURORA  
KANE COUNTY, ILLINOIS

Resolution No. \_\_\_\_\_

---

**APPROVING THE FINAL PLAT OF N.A. LODGINGS RANDALL CROSSING SUBDIVISION  
IN THE VILLAGE OF NORTH AURORA**

---

Adopted by the  
Board of Trustees and President  
of the Village of North Aurora  
this \_\_\_\_ day of \_\_\_\_\_, 2017

Published in Pamphlet Form  
by authority of the Board of Trustees of the  
Village of North Aurora, Kane County, Illinois,  
this \_\_\_\_ day of \_\_\_\_\_, 2017  
by \_\_\_\_\_.

Signed \_\_\_\_\_

VILLAGE OF NORTH AURORA

**RESOLUTION NO. \_\_\_\_\_**

**APPROVING THE FINAL PLAT OF N.A. LODGINGS RANDALL CROSSING SUBDIVISION  
IN THE VILLAGE OF NORTH AURORA**

**WHEREAS**, N.A Lodging, LLC has applied to the Village of North Aurora for approval of the Final Plat of N.A. Lodgings Randall Crossing Subdivision.

**NOW, THEREFORE, BE IT RESOLVED** by the President and the Board of Trustees of the Village of North Aurora, as follows:

1. The recitals set forth above are incorporated herein as material findings of the President and the Board of Trustees.

2. The subdivision of the property indicated on the Plat of Subdivision attached hereto and incorporated herein by reference as Exhibit "A" is hereby approved.

3. This Resolution shall take immediate force and effect from and after its passage and approval as provided by law.

Presented to the Board of Trustees of the Village of North Aurora, Kane County, Illinois this \_\_\_\_ day of \_\_\_\_\_, 2017, A.D.

Passed by the Board of Trustees of the Village of North Aurora, Kane County, Illinois this \_\_\_\_ day of \_\_\_\_\_, 2017, A.D.

Mark Carroll \_\_\_\_\_

Laura Curtis \_\_\_\_\_

Mark Gaffino \_\_\_\_\_

Mark Guethle \_\_\_\_\_

Michael Lowery \_\_\_\_\_

Tao Martinez \_\_\_\_\_

Approved and signed by me as President of the Board of Trustees of the Village of North Aurora, Kane County, Illinois this \_\_\_\_ day of \_\_\_\_\_, 2017 A.D.

\_\_\_\_\_  
Dale Berman, Village President

ATTEST:

\_\_\_\_\_  
Village Clerk

**VILLAGE OF NORTH AURORA**

**'Exhibit A' – Final Plat of N.A. Lodgings Randall Crossing**

BEING A SUBDIVISION OF PART OF THE SOUTH HALF  
OF SECTION 32, TOWNSHIP 38 NORTH,  
RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN,  
IN KANE COUNTY, ILLINOIS

SHEET INDEX	
SHEET	DESCRIPTION
1	SUBDIVISION BOUNDARY & EXISTING EASEMENTS
2	NEW LOTS AND EASEMENTS
3	CERTIFICATES & PROVISIONS



### VICINITY MAP



THIS PLAT WAS SUBMITTED TO THE COUNTY  
RECORDS FOR THE PURPOSES OF RECORDING IN

STATE OF NORTH CAROLINA  
(PRINT NAME)

26 E. STATE STREET  
(ADDRESS)

NORTH CAROLINA                  S                  00049  
(CITY/TOWN)                  (COUNTY)                  (ZIP CODE)

**TOTAL AREA OF SUBDIVISION**  
7.767 ACRES  
(MORE OR LESS)

**PARCEL INDEX**  
**NUMBERS**  
12-32-327-005  
12-32-327-006  
12-32-327-009  
12-32-403-014  
12-32-403-015  
12-32-403-016  
12-32-403-017  
12-32-403-018  
**VILLAGE OF NORTH AURORA,**  
**ILLINOIS**

## NOTES

3/4 INCH IRON PIPES SET ON OTHER PERMANENT SURVEY INSTRUMENT AT ALL LOT CORNERS AND POINTS OF CURVATURE UNLESS OTHERWISE NOTED.

ALL MEASUREMENTS ARE SHOWN IN FEET AND DECIMAL PARTS THEREOF.

CURVES SHOWN ALSO AS CURVES ARE ESTIMATED.

INSTRUMENTS EMPLOYED WITH ( ) ARE RECORDING AND ALL MEASUREMENTS ARE MEASURED OR RECORD CALCULUS MEASURED.

ALL EASEMENTS ARE HEREBY GRANTED UNLESS OTHERWISE NOTED.

P.S.E. - INDICATES PUBLIC UTILITY AND CHARGE LIABILITIES HEREBY GRANTED. SEE PROVISIONS FOR DETAILS.

THE MEASURED BEARING SHOWN ARE ASSURED.

F.A.P. = FOUND IRON PIPE (AS SHOWN)

### LEGEND

- SUBURBAN BOUNDARY LINE  
(Heavy Solid Line)
- LOT LINE/PROPERTY LINE  
(Solid Line)
- ADJACENT LOT LINE/PROPERTY LINE  
(Light Solid Line)
- PREPARED EASEMENT LINE  
(Short Dashed Line)
- DITCHED EASEMENT LINE  
(Dashed-Dotted Line)
- KEY CONCRETE MONUMENT

PREPARED FOR:  
NA LODGING, LLC  
123 WEST WASHINGTON STREET, SUITE 214  
OSWEGO, IL 60543

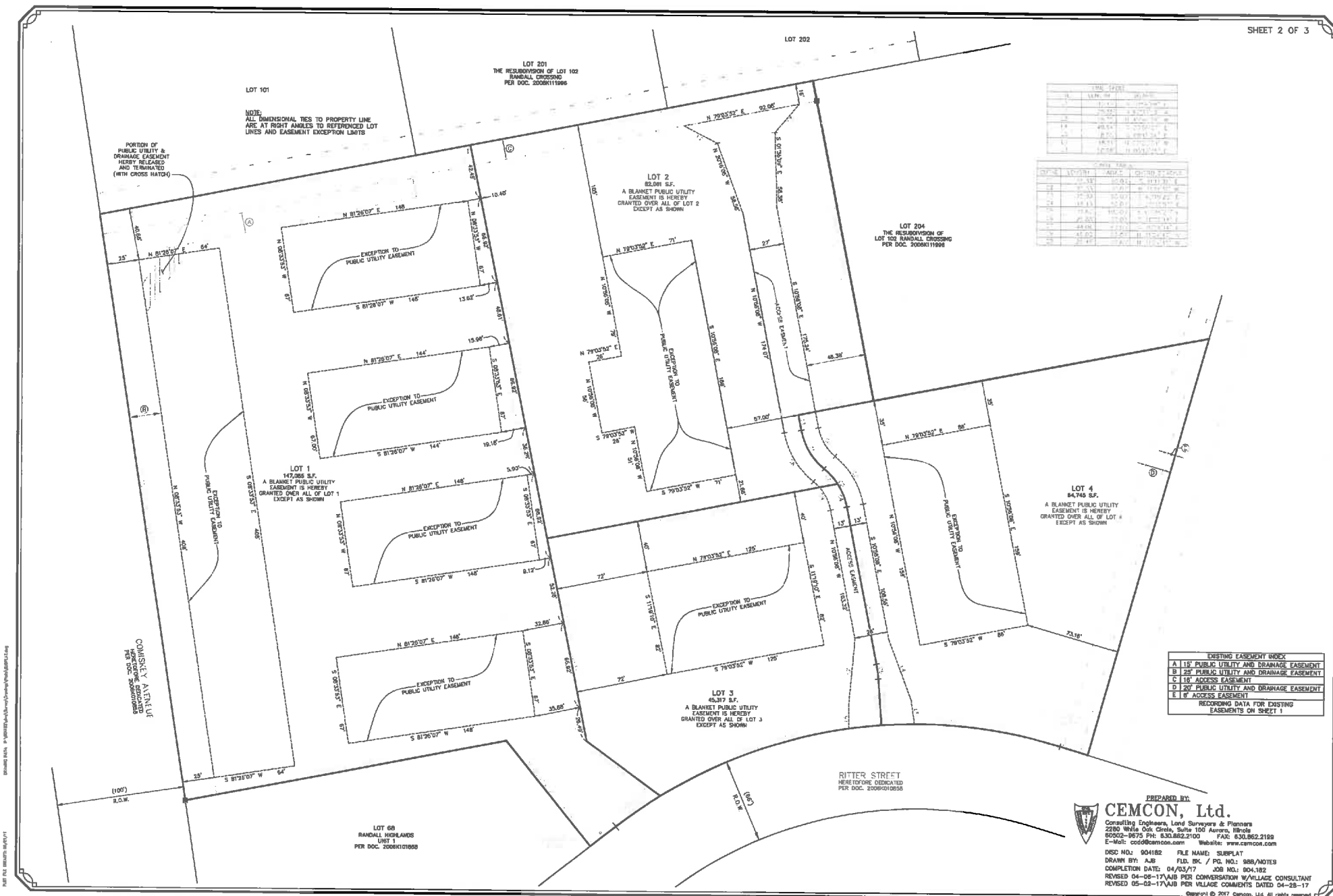
 **CEMCON, Ltd.**  
Consulting Engineers, Land Surveyors & Planners  
2280 White Court Circle, Suite 100 Aurora, Illinois  
60502-9875 PH: 630.682.2100 FAX: 630.682.2189  
E-Mail: [ced@cemcon.com](mailto:ced@cemcon.com) Website: [www.cemcon.com](http://www.cemcon.com)

**CEMCON, Ltd.**

Consulting Engineers, Land Surveyors & Planners  
2280 White Oak Circle, Suite 100 Aurora, Illinois  
60502-9875 PH: 630.862.2100 FAX: 630.862.2189  
E-Mail: [ced@ccmcon.com](mailto:ced@ccmcon.com) WebSite: [www.ccmcon.com](http://www.ccmcon.com)

DISC NO.: 004182 P/E NAME: SUBPLAT  
DRAWN BY: AJE FLD. INC. / PG. NO.: 008/NOTES  
COMPLETION DATE: 04/03/17 JOB NO.: 004182  
REVISED 04-08-17/AJE PER CONVERSATION W/ VILLAGE CONSULTANT  
REVISED 05-02-17/AJE PER VILLAGE COMMENTS DATED 04-28-17

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**OWNER'S CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF ) SS.  
THIS IS TO CERTIFY THAT DECADA GROUP - RANDALL, LLC IS THE OWNER OF THE LAND DESCRIBED IN THE FOREGOING SURVEYOR'S CERTIFICATE AND HAS CAUSED THE SAME TO BE SURVEYED AND SUBDIVIDED AS INDICATED THEREIN FOR USES AND PURPOSES AS INDICATED THEREIN, AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE THEREIN INDICATED.

DATED AT ILLINOIS, THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 2017.

DECADA GROUP - RANDALL, LLC  
564 S. WASHINGTON STREET, SUITE 200  
NAPERVILLE, IL 60540

(OWNER)

(ADDRESS)

**NOTARY CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF ) SS.

I, \_\_\_\_\_, NOTARY PUBLIC IN AND FOR THE STATE AND COUNTY AFORESAID, DO HEREBY CERTIFY THAT I PERSONALLY KNOW ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE FOREGOING CERTIFICATE, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THE EXECUTION OF THE ANNEXED PLAN AND ACCOMPANYING INSTRUMENTS FOR THE USES AND PURPOSES THEREIN SET FORTH AS HIS OR THEIR FREE AND VOLUNTARY ACT.

GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

NOTARY PUBLIC

MY COMMISSION EXPIRES \_\_\_\_

**MORTGAGEE'S CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF ) SS.

THIS IS TO CERTIFY THAT THE FIRST NATIONAL BANK OF OTTAWA, ORGANIZED AND EXISTING UNDER THE LAWS OF THE UNITED STATES OF AMERICA AS MORTGAGEE UNDER THE MORTGAGE RECORDED AS DOCUMENT NUMBER 20160807150, DATED FEBRUARY 17, 2016 AND RECORDED FEBRUARY 17, 2016, HEREBY CONSENTS TO RECORDING OF THE PLAT AS HEREON SHOWN.

DATED AT ILLINOIS,  
THIS \_\_\_\_ DAY \_\_\_\_ A.D., 2017.

BY: \_\_\_\_\_ ATTEST: \_\_\_\_\_  
TITLE: \_\_\_\_\_ TITLE: \_\_\_\_\_

**NOTARY CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF ) SS.

I, \_\_\_\_\_, NOTARY PUBLIC IN AND FOR THE STATE AND COUNTY AFORESAID, DO HEREBY CERTIFY THAT I PERSONALLY KNOW ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE FOREGOING CERTIFICATE, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THE EXECUTION OF THE ANNEXED PLAN AND ACCOMPANYING INSTRUMENTS FOR THE USES AND PURPOSES THEREIN SET FORTH AS HIS OR THEIR FREE AND VOLUNTARY ACT.

GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

NOTARY PUBLIC

MY COMMISSION EXPIRES \_\_\_\_

**SURVEYOR'S CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF DuPAGE ) SS.

THIS IS TO CERTIFY THAT I, PETER A. BLAZER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED AND SUBDIVIDED THE FOLLOWING DESCRIBED PROPERTY:

LOTS 203, 205, 206 AND 207 IN THE RESUBDIVISION OF LOT 102 RANDALL CROSSING ACCORDING TO THE PLAT THEREOF RECORDED OCTOBER 12, 2006 AS DOCUMENT NUMBER 20060111896, AND CERTIFICATE OF CORRECTION RECORDED NOVEMBER 28, 2007 AS DOCUMENT NUMBER 20070118148, IN THE VILLAGE OF NORTH AURORA, KANE COUNTY, ILLINOIS.

AS SHOWN BY THE PLAT HEREON, WHICH IS A CORRECT REPRESENTATION OF SAID SURVEY AND SUBDIVISION. ALL DISTANCES ARE SHOWN IN FEET AND DECIMALS THEREOF. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL REGULATIONS ENACTED BY THE MAYOR AND BOARD OF TRUSTEES OF THE VILLAGE OF NORTH AURORA RELATIVE TO THE ANNEXED PLATS HAVE BEEN COMPLIED WITH IN PREPARATION OF THIS ANNEXED PLAT. I FURTHER CERTIFY THAT THE LAND IS WITHIN THE VILLAGE OF NORTH AURORA, WHICH HAS ADOPTED A VILLAGE COMPREHENSIVE PLAN AND MAP, AND IS EXERCISING THE SPECIAL POWERS AUTHORIZED BY DIVISION 12 OF ARTICLE 11 OF THE ILLINOIS MUNICIPAL CODE AS AMENDED. I FURTHER CERTIFY THAT BASED UPON A REVIEW OF THE FLOOD INSURANCE RATE MAP PANEL NO. 170802C038H WITH AN EFFECTIVE DATE OF AUGUST 3, 2009 IT IS MY OPINION THAT NO PART OF THE PROPERTY DESCRIBED HEREON FALLS WITHIN A SPECIAL FLOOD HAZARD AREA.

GIVEN UNDER MY HAND AND SEAL THIS 25TH DAY OF MAY, A.D., 2017.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3072  
MY REGISTRATION EXPIRES ON NOVEMBER 30, 2018  
PROFESSIONAL DESIGN FIRM LICENSE NO. 184-002937  
EXPIRATION DATE IS APRIL 30, 2018

**OWNER'S CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF ) SS.  
THIS IS TO CERTIFY THAT DECADA GROUP - RANDALL, LLC IS THE OWNER OF THE LAND DESCRIBED IN THE FOREGOING SURVEYOR'S CERTIFICATE AND HAS CAUSED THE SAME TO BE SURVEYED AND SUBDIVIDED AS INDICATED THEREIN FOR USES AND PURPOSES AS INDICATED THEREIN, AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE THEREIN INDICATED.

DATED AT ILLINOIS, THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 2017.

N.A. LOGGING 1, LLC  
564 S. WASHINGTON STREET, SUITE 200  
NAPERVILLE, IL 60540

(OWNER)

(ADDRESS)

**NOTARY CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF ) SS.

I, \_\_\_\_\_, NOTARY PUBLIC IN AND FOR THE STATE AND COUNTY AFORESAID, DO HEREBY CERTIFY THAT I PERSONALLY KNOW ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE FOREGOING CERTIFICATE, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THE EXECUTION OF THE ANNEXED PLAN AND ACCOMPANYING INSTRUMENTS FOR THE USES AND PURPOSES THEREIN SET FORTH AS HIS OR THEIR FREE AND VOLUNTARY ACT.

GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

NOTARY PUBLIC

MY COMMISSION EXPIRES \_\_\_\_

**MORTGAGEE'S CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF ) SS.

THIS IS TO CERTIFY THAT THE FIRST NATIONAL BANK OF OTTAWA, ORGANIZED AND EXISTING UNDER THE LAWS OF THE UNITED STATES OF AMERICA AS MORTGAGEE UNDER THE MORTGAGE RECORDED AS DOCUMENT NUMBER 20160807150, DATED NOVEMBER 21, 2016 AND RECORDED DECEMBER 6, 2016, HEREBY CONSENTS TO RECORDING OF THE PLAT AS HEREON SHOWN.

DATED AT ILLINOIS,  
THIS \_\_\_\_ DAY \_\_\_\_ A.D., 2017.

BY: \_\_\_\_\_ ATTEST: \_\_\_\_\_  
TITLE: \_\_\_\_\_ TITLE: \_\_\_\_\_

**NOTARY CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF ) SS.

I, \_\_\_\_\_, NOTARY PUBLIC IN AND FOR THE STATE AND COUNTY AFORESAID, DO HEREBY CERTIFY THAT I PERSONALLY KNOW ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE FOREGOING CERTIFICATE, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THE EXECUTION OF THE ANNEXED PLAN AND ACCOMPANYING INSTRUMENTS FOR THE USES AND PURPOSES THEREIN SET FORTH AS HIS OR THEIR FREE AND VOLUNTARY ACT.

GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

NOTARY PUBLIC

MY COMMISSION EXPIRES \_\_\_\_

**SCHOOL DISTRICT STATEMENT**

STATE OF ILLINOIS )  
COUNTY OF ) SS.

THIS IS TO CERTIFY THAT N.A. LOGGING 1, LLC AND DECADA GROUP - RANDALL, LLC ARE THE OWNERS OF THE PROPERTY BEING SUBDIVIDED AFORESAID AND, TO THE BEST OF OWNERS' KNOWLEDGE AND BELIEF, SAID SUBDIVISION LIES ENTIRELY WITHIN THE LIMITS OF WEST AURORA SCHOOL DISTRICT 128.

DATED THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

BY: \_\_\_\_\_ ATTEST: \_\_\_\_\_

TITLE: \_\_\_\_\_ TITLE: \_\_\_\_\_

BY: \_\_\_\_\_ ATTEST: \_\_\_\_\_

TITLE: \_\_\_\_\_ TITLE: \_\_\_\_\_

**PLAN COMMISSION APPROVAL**

STATE OF ILLINOIS )  
COUNTY OF KANE ) SS.

APPROVED BY THE PLANNING COMMISSION OF THE VILLAGE OF NORTH AURORA

THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

PLAN COMMISSION  
VILLAGE OF NORTH AURORA

(CHAIRPERSON)

**VILLAGE BOARD APPROVAL**

STATE OF ILLINOIS )  
COUNTY OF KANE ) SS.

APPROVED BY THE VILLAGE OF NORTH AURORA BOARD AT THEIR MEETING

THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

BOARD OF TRUSTEES,  
VILLAGE OF NORTH AURORA, ILLINOIS

(PRESIDENT)

(VILLAGE CLERK)

**COUNTY CLERK CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF KANE ) SS.

THIS IS TO CERTIFY THAT I FIND NO DELINQUENT AND/OR FORFEITED TAXES, NO REDIMABLE TAX SALES, AND NO UNPAID SPECIAL ASSESSMENTS AGAINST ANY OF THE REAL ESTATE DESCRIBED AND PLATTED HEREON.

DATED THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

KANE COUNTY CLERK

**KANE COUNTY RECORDER'S CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF KANE ) SS.

THIS INSTRUMENT \_\_\_\_ WAS FILED FOR RECORD IN THE RECORDER'S OFFICE OF KANE COUNTY, ILLINOIS, ON THE \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_ AT \_\_\_\_ O'CLOCK \_\_\_\_ M.

RECORDER OF DEEDS

**DRAINAGE OVERLAY CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF DU PAGE ) SS.

TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF SUCH SUBDIVISION OR ANY PART THEREOF, OR THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISION HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINAGE WHICH THE SUBDIVIDER HAS RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES GO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE SUBDIVISION.

DATED THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

ILLINOIS REGISTERED PROFESSIONAL ENGINEER

**DRAINAGE ENGINEER'S CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF DU PAGE ) SS.

THIS IS TO CERTIFY THAT ALL SITE IMPROVEMENT PLANS AND SPECIFICATIONS FOR THE RANDALL CROSSING SUBDIVISION, CONSISTING OF 2 PAGES AND DATED JULY 31, 2008 - AND MOST RECENTLY REVISED SEPTEMBER 18, 2008, ARE IN CONFORMANCE WITH THE STANDARDS OF THE SUBDIVISION ORDINANCE OF THE VILLAGE OF NORTH AURORA, AND ARE ALSO IN ACCORDANCE WITH GOOD ENGINEERING PRINCIPLES.

DATED THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

ILLINOIS REGISTERED PROFESSIONAL ENGINEER

**EASEMENT RELEASE APPROVALS****AMERITECH CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF KANE ) SS.

RELEASE OF A PORTION OF THE EASEMENT PER DOCUMENT 20080104137 AS SHOWN ON SHEET 2 OF 3 HEREOF APPROVED AND ACCEPTED.

THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

AMERITECH

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

**COMED CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF KANE ) SS.

RELEASE OF A PORTION OF THE EASEMENT PER DOCUMENT 20080104137 AS SHOWN ON SHEET 2 OF 3 HEREOF APPROVED AND ACCEPTED.

THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

COMED

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

**NICOR GAS COMPANY CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF KANE ) SS.

RELEASE OF A PORTION OF THE EASEMENT PER DOCUMENT 20080104137 AS SHOWN ON SHEET 2 OF 3 HEREOF APPROVED AND ACCEPTED.

THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

NICOR GAS COMPANY

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

**COMCAST CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF KANE ) SS.

RELEASE OF A PORTION OF THE EASEMENT PER DOCUMENT 20080104137 AS SHOWN ON SHEET 2 OF 3 HEREOF APPROVED AND ACCEPTED.

THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

COMCAST

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

**VILLAGE OF NORTH AURORA CERTIFICATE**

STATE OF ILLINOIS )  
COUNTY OF KANE ) SS.

RELEASE OF A PORTION OF THE EASEMENT PER DOCUMENT 20080104137 AS SHOWN ON SHEET 2 OF 3 HEREOF APPROVED AND ACCEPTED.

THIS \_\_\_\_ DAY OF \_\_\_\_ A.D., 20 \_\_\_\_

VILLAGE OF NORTH AURORA

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

**PUBLIC UTILITY EASEMENT PROVISIONS**

A PERMANENT NON-EXCLUSIVE EASEMENT IS HEREBY RESERVED FOR AND GRANTED TO THE VILLAGE OF NORTH AURORA AND TO ALL PUBLIC UTILITY COMPANIES OF ANY KIND OPERATING UNDER FRANCHISES GRANTING THEM EASEMENT RIGHTS FROM THE VILLAGE, INCLUDING, BUT NOT LIMITED TO, COMCAST, INC., AT&T, COMMERCIAL EDISON COMPANY AND NORTHERN ILLINOIS GAS COMPANY AND TO THEIR SUCCESSORS AND ASSIGNS IN, UPON, ACROSS, OVER, UNDER AND THROUGH THE AREAS SHOWN BY DASHED LINES AND LABELED PUBLIC UTILITIES AND DRAINAGE EASEMENTS "PULE" FOR THE PURPOSE OF INSTALLING, CONSTRUCTING, INSPECTING, OPERATING, REPLACING, REPAIRING, ALTERING, ENLARGING, REMOVING, REPAIRING, CLEANING, AND MAINTAINING ELECTRICAL, CABLE TELEVISION, COMMUNICATION, GAS, TELEPHONE OR OTHER UTILITY LINES OR APPURTENANCES, SANITARY AND STORM SEWERS, DRAINAGE WEIRS, STORM WATER DETENTION AND RETENTION, WATERWAYS AND ANY AND ALL MANHOLES, HYDRANTS, PIPES, CONNECTIONS, CATCH BASINS, BUFFALO BOXES AND WITHOUT LIMITATION, SUCH OTHER UTILITIES AREAS MAY BE REQUIRED TO FURNISH PUBLIC UTILITY SERVICE TO ADJACENT AREAS, AND SUCH APPURTENANCES AND ADDITIONS THEREON TO SAID VILLAGE AND UTILITIES MAY BE NECESSARY TOGETHER WITH THE RIGHT OF ACCESS ACROSS THE REAL ESTATE PLATTED HEREON FOR THE NECESSARY PERSONNEL AND EQUIPMENT TO DO ANY OR ALL OF THE ABOVE WORK, THE RIGHT IS ALSO HEREBY GRANTED TO SAID VILLAGE AND UTILITIES TO CUT DOWN, TRIM OR REMOVE ANY TREES, SHRUBS, OR OTHER PLANTS THAT INTERFERE WITH THE OPERATION OF OR ACCESS TO SAID SEWERS OR WITHOUT LIMITATION, UTILITY INSTALLATIONS IN, ON, UPON, OR ACROSS, UNDER OR THROUGH SAID EASEMENTS, NO PERMANENT BUILDINGS SHALL BE PLACED ON SAID EASEMENTS, BUT SAME MAY BE USED FOR GARAGES, TREES, SHRUBS, LANDSCAPING, AND OTHER PURPOSES THAT DO NOT THEN OR LATER INTERFERE WITH THE AFORESAID USES AND RIGHTS. WHERE AN EASEMENT IS USED FOR STORM SEWERS, SANITARY SEWERS OR ANY OTHER UTILITY INSTALLATION, IT SHALL BE SUBJECT TO THE PRIOR APPROVAL OF SAID VILLAGE SO AS NOT TO INTERFERE WITH OTHER UTILITY LINES AND DRAINAGE. AFTER INSTALLATION OF SAID UTILITY LINES, THE FINAL SURFACE OF THE EASEMENT SHALL BE RESTORED IN A MANNER SO AS NOT TO INTERFERE WITH PROPER OPERATION AND DRAINAGE THEREOF. FENCES SHALL NOT BE ERECTED UPON SAID EASEMENT EXCEPT WHERE SPECIALLY PERMITTED BY WRITTEN AUTHORITY OF THE VILLAGE OF NORTH AURORA.

**ACCESS EASEMENT PROVISIONS**

AN ACCESS EASEMENT IS HEREBY RESERVED AND GRANTED OVER ALL AREAS DESIGNATED AS "ACCESS EASEMENT" FOR THE PERPETUAL RIGHT OF INGRESS AND EGRESS ACROSS, OVER, UPON AND ALONG SAID EASEMENT PREMISES FOR THE BENEFIT OF THE OWNERS OF LOTS 3 AND 4, THEIR SUCCESSORS AND ASSIGNS, PATRONS, SUPPLIERS, CONTRACTOR, ETC.

RITUAL CONSTRUCTION AND MAINTENANCE OF THE ROADWAY AND AREAS UPON SAID EASEMENT AREA SHALL BE THE RESPONSIBILITY OF THE DEVELOPER FOR NA LOGGING RANDALL CROSSING. THE MAINTENANCE OF SAID ROADWAY AREAS SHALL BECOME THE SHARED RESPONSIBILITY OF THE OWNERS ASSOCIATION.

**EASEMENT PROVISIONS**

An easement for serving the said parcel and other property with electric and communication service is hereby reserved for and granted to:

Commonwealth Edison Company  
and  
SBC Telephones Company, Inc., d/b/a, Comcast.

their respective successors and assigns jointly and severally, to construct, operate, repair, maintain, modify, reconstruct, replace, supplement, relocate and remove, from time to time, poles, guy, anchors, wires, cables, conduits, manholes, transformers, equipment cabinets or other facilities used in connection with overhead and underground transmission and distribution of electricity, communication, signals and signals in, over, under, across, along and upon the surface of the property shown within the dashed or dotted lines for electric easements on the plat and enclosed "Easement", "Utility Easement", "Public Utility Easement", "P.U.E." (or similar designation), the property designated in the Declaration of Condominium and on this plat as "Common Easement", and the property designated on the plat as "Common area or easement" and the property designated on the plat (for streets and alleys, whether public or private, together with the rights to install required service connections over or under the surface of such lot and common area or easement to serve improvements thereon, as on adjacent lots, and common area or easement, the right to cut, trim or remove trees, bushes, roots and saplings and to clear obstructions from the surface and substructure as may be reasonably required incident to the rights herein given, and the right to enter upon the subdivided property for all such purposes. Obstructions shall not be placed over "Common" facilities or in, upon or over the property within the dashed or dotted lines for similar designation enclosed "Easement", "Utility Easement", "Public Utility Easement", "P.U.E." (or similar designation) without the prior written consent of Comcast. Other installation of any such facilities, the grade of the subdivided property shall not be altered in a manner so as to interfere with the proper operation and maintenance thereof.

The term "Common Easement" shall have the meaning set forth for such term in the "Condominium Property Act", Chapter 745 ILCS 40/5.02(d), as amended from time to time.

The term "Common area or easement" is defined as a lot, parcel or area of land property, the beneficial use and enjoyment of which is reserved in whole or in part to the separately owned lots, parcels or areas within the planned development, even though such be otherwise designated on the plat by terms such as "street", "common easement", "open space", "open area", "common ground", "walkway" and "common area". The term "Common area or easement" and "Common Easement" include land property situated with interior driveways and walkways, but exclude land property primarily reserved for a building, Service Driveway District or a structure such as a pond, retention pond or mechanical equipment.

Relocation of facilities will be done by Owners at cost of the User's Lot Owner, upon written request.



PREPARED BY:  
**CEMCON, Ltd.**

Consulting Engineers, Land Surveyors & Planners  
2380 White Oak Creek, Suite 100 Aurora, Illinois  
60502-0675 PH: 630.882.2100 FAX: 630.882.2189  
E-Mail: cemcon@cemcon.com Website: www.cemcon.com

DISC NO.: 904182 FILE NAME: SUBPLAT  
DRAWN BY: A/B P.L.D. BY: P.C. NLS P85/NOTES  
COMPLETION DATE: 04/03/17 JOB NO.: 804.182  
REVISED 04-05-17A/B PER CONVERSION VILLAGE CONSULTANT  
REVISED 05-02-17A/B PER VILLAGE COMMENTS DATED 04-28-17

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## Memorandum

To: Dale Berman, Village President & Board of Trustees  
Cc: Steven Bosco, Village Administrator  
From: John Laskowski, Public Works Director  
Date: March 23, 2017  
Re: Tree Amendment

Staff is requesting an amendment be made to the Landscaping and Trees section of the Subdivision Control Ordinance (16.12.190). Please see listed below the parkway trees recommending to be added and deleted from the current ordinance.

PARKWAY TREES – LIST OF CHANGES	
TREES TO ADD	TREES TO REMOVE
State Street Maple	American Linden
Sycamore Maple	Ginkgo (male only)
Marmo Freeman Maple	Hybrid Elm
Sienna Glen Maple	Ornamental Pear
Red Oak	Red Maple
Sawtooth Oak	Sweetgum
Skyline Locust	American Hop Hornbeam
Street Keeper Honey Locust	European Hornbeam
Redmond Linden	
Silver Linden	
Little Leaf Linden	
Triumph Elm	
Accolade Elm	
Patriot Elm	
Pioneer Elm	
Bloodgood-London Planetree	

The trees being removed are messy, diseased and fruit bearing. The added trees are hearty, hold up to salt, and handle diseases well. Please see attached ordinance for a copy of the overall acceptable parkway tree list.





**VILLAGE OF NORTH AURORA  
KANE COUNTY, ILLINOIS**

**ORDINANCE NO. \_\_\_\_\_**

---

**AN ORDINANCE AMENDING TITLE 16 OF THE NORTH AURORA MUNICIPAL CODE  
REGARDING APPROVED PARKWAY TREES**

---

Adopted by the Board of Trustees  
And Village President of the Village of North Aurora  
This \_\_\_\_\_ day of \_\_\_\_\_, 2017

Published in Pamphlet Form  
By Authority of the Board of Trustees  
Of the Village of North Aurora  
Kane County, Illinois  
This \_\_\_\_\_ day of \_\_\_\_\_, 2017

---

Lori Murray, Village Clerk

**ORDINANCE NO. \_\_\_\_\_**

**AN ORDINANCE AMENDING TITLE 16 OF THE NORTH AURORA MUNICIPAL CODE  
REGARDING APPROVED PARKWAY TREES**

**NOW, BE IT ORDAINED** by the President and Board of Trustees of the Village of North Aurora, Kane County, Illinois:

**Section 1** Title 16 of the North Aurora Municipal Code Chapter 16, Section 16.12.190, subsection C.8 and subsection C.9 is hereby amended as follows:

8. Parkway shade trees shall be selected from the following recommended species:

<b>COMMON NAME</b>	<b>BOTANICAL NAME</b>
Autumn Blaze Maple	Acer rubrum
Norway Maple	Acer plantanoides
State Street Maple	Acer miyadei
Sycamore Maple	Acer pseudo-platanus
Sugar Maple	Acer saccharum
Marmo Freeman Maple	Acer freemanii 'Marmo'
Sienna Glen Maple	Acer x freemanii 'Sienna'
Bur Oak	Quercus macrocarpa
Chinkapin Oak	Quercus myehlenbergii
Swamp White Oak	Quercus bicolor
Red Oak	Quercus rubra
Shingle Oak	Quercus imbricaria 'Fagaceae'
Sawtooth Oak	Quercus acutissima
Skyline Locust	Gleditsia triacanthos
Street Keeper Honey Locust	Gleditsia triacanthos 'Draves'
Prairie Pride Common Hackberry	Celtis occidentalis 'Prairie Pride'
Redmond Linden	Tilia Americana 'Redmond'
Silver Linden	Tilia tomentosa
Little Leaf Linden	Tilia cordata
Triumph Elm	Ulmus 'Morton Glossy'
Accolade Elm	Ulmus davidiana var. japonica 'Morton'
Patriot Elm	Ulmus 'Patriot'
Pioneer Elm	Ulmus 'Pioneer'
Bloodgood-London Planetree	Platanus acerifolia 'Bloodgood'
London Planetree	Platanus acerifolia
Japanese Zelkova <b>Japanese Zelkova should be transplanted in the spring, as young trees are susceptible to frost.</b>	Zelkova serrata
Kentucky Coffee Tree (male only) <b>Kentucky Coffee Trees must be a 3" in diameter</b>	Gymnocladus dioicus

9. Trees not listed as an approved tree in the above recommended species list will be considered with the written approval of the Public Works Director or his designee

**Section 2** This Ordinance shall take immediate force and effect from and after its passage, approval and publication as required by law.

Presented to the Board of Trustees of the Village of North Aurora, Kane County, Illinois this \_\_\_\_ day of \_\_\_\_\_, 2017, A.D.

Passed by the Board of Trustees of the Village of North Aurora, Kane County, Illinois this \_\_\_\_ day of \_\_\_\_\_, 2017, A.D.

Mark Carroll	_____	Laura Curtis	_____
Mark Gaffino	_____	Mark Guethle	_____
Michael Lowery	_____	Tao Martinez	_____

Approved and signed by me as President of the Board of Trustees of the Village of North Aurora, Kane County, Illinois this \_\_\_\_ day of \_\_\_\_\_, 2017, A.D.

\_\_\_\_\_  
Village President

ATTEST:

\_\_\_\_\_  
Village Clerk

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**VILLAGE OF NORTH AURORA  
BOARD REPORT**

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**TO:** VILLAGE PRESIDENT & BOARD OF TRUSTEES  
CC: STEVE BOSCO, VILLAGE ADMINISTRATOR  
**FROM:** MIKE TOTH, COMMUNITY & ECONOMIC DEVELOPMENT DIRECTOR  
**SUBJECT:** TATTOO ESTABLISHMENT CODE AMENDMENTS  
**AGENDA:** 9/18/2017 REGULAR VILLAGE BOARD MEETING

---

**ITEM**

Ordinance amending Title 5 Chapter 5.36 of the North Aurora Municipal Code regarding Tattoo and Body Piercing Establishments

**DISCUSSION**

Per Section 5.36 of the North Aurora Municipal Code, Tattoo and body piercing establishments and operators are required to obtain an annual license to operate in the Village. Tattoo and body piercing establishments are also required to register with the State of Illinois through the Tattoo and Body Piercing Establishment Registration Act. The Illinois Department of Public Health's Body Art Code specifies the standard for the conduct of body art procedures, sets standards for the process by which the Department and its delegate agencies inspect and register body art establishments. There are two tattoo establishments conducting business in the Village of North Aurora.

Staff presented amendments to the tattoo and body piercing establishment and operator provisions during the August 7, 2017 Committee of the Whole meeting. The following is a summarization of the proposed text amendments:

- Tattoo and body piercing operators would no longer be required to obtain a license with the Village on an annual basis and instead acquire a one-time license.
- Tattoo and body piercing operators would no longer be required to provide the Village with test results for communicable diseases.
- Tattoo establishments would no longer be required to have an on-call physician.

While most Board members were in favor of eliminating the aforementioned requirements, others stated that further investigation is needed before removing the communicable disease test results. The Board members in favor of the amendments stated that the provisions overregulate the businesses and are unnecessary. In order to evaluate the disease testing, staff researched a number of communities, and of the sample set, found that only one other municipality required such examination. After reviewing State policy, per the Body Art Code, staff found that the Illinois Department of Public health requires that operators complete bloodborne pathogen training, per OSHA.

**Attachments:**

1. Ordinance amending Title 5 Chapter 5.36 of the North Aurora Municipal Code regarding Tattoo and Body Piercing Establishments
2. Memorandum drafted by the Village Attorney's Office, dated May 27, 2017
3. Memorandum drafted by David Hansen, dated August 15, 2017
4. Title 77: Public Health, Part 797: Body Art Code, Section 797.1300 & 797.1500

VILLAGE OF NORTH AURORA



VILLAGE OF  
**NORTH**  
AURORA

VILLAGE OF NORTH AURORA  
KANE COUNTY, ILLINOIS

Ordinance No. \_\_\_\_\_

---

**ORDINANCE AMENDING TITLE 5 CHAPTER 5.36 OF THE**  
**NORTH AURORA MUNICIPAL CODE REGARDING TATTOO AND BODY PIERCING**  
**ESTABLISHMENTS**

---

Adopted by the  
Board of Trustees and President  
of the Village of North Aurora  
this \_\_\_\_ day of \_\_\_\_\_, 2017

Published in Pamphlet Form  
by authority of the Board of Trustees of the  
Village of North Aurora, Kane County, Illinois,  
this \_\_\_\_ day of \_\_\_\_\_, 2017  
by \_\_\_\_\_.

Signed \_\_\_\_\_

VILLAGE OF NORTH AURORA

**ORDINANCE NO.** \_\_\_\_\_

**ORDINANCE AMENDING TITLE 5 CHAPTER 5.36 OF THE  
NORTH AURORA MUNICIPAL CODE REGARDING TATTOO AND BODY PIERCING  
ESTABLISHMENTS**

**WHEREAS**, Tattoo and body piercing establishments and operators are required to obtain an annual license to operate in the Village; and

**WHEREAS**, the Village believes it is in the best interest to amend the tattoo and body piercing establishment provisions in order to allow for reasonable licensing of such businesses.

**NOW, THEREFORE, BE IT ORDAINED** by the President and Board of Trustees of the Village of North Aurora, Kane County, Illinois, as follows:

**SECTION 1:** The recitals set forth above are adopted and incorporated herein as the material findings of the President and Board of Trustees.

**SECTION 2:** That Title 5, Chapter 5.36 of the Code of North Aurora, Illinois is hereby amended to read in its entirety, as follows:

**Chapter 5.36 - TATTOO AND BODY PIERCING ESTABLISHMENTS**

Sections:

**5.36.010 - Definitions.**

The following definitions shall apply to this chapter:

"Body piercing" means to make a hole in the body or oral cavity in order to insert or allow the insertion of any ring, hoop, stud, or other object for the purpose of ornamentation of the body, but specifically excluding the standard transverse piercing of the ear lobe that is commonly performed in retail establishments in conjunction with the sale of ear rings.

"Licensee" means any owner or operator licensed under this chapter.

"Operator(s)" means any individual who performs or practices the art of tattooing or body piercing on other human beings.

"Owner" means any individual, firm, company, corporation or association that owns or operates an establishment where tattooing or body piercing is performed.

"Person" means any individual, firm, company, corporation, association or other entity.

"Superintendent" means the superintendent for building and zoning for purposes of this chapter.

## VILLAGE OF NORTH AURORA

"Tattoo" means to insert pigment under the surface of the skin of a human being, by pricking with a needle or otherwise, so as to produce an indelible mark or figure visible through the skin. 720 ILCS 5/12-10.

"Tongue splitting" means the cutting of a human tongue into two or more parts.

Use of the words "he," "him," and "his" or other words having a masculine meaning are meant as gender neutral and shall apply with equal force to the female gender.

### **5.36.020 - License required.**

It is unlawful for any person to maintain and operate a tattoo or body piercing establishment in the Village of North Aurora, without first having obtained a license as hereinafter provided which shall be renewed on an annual basis.

It is unlawful for any individual to practice the art of tattooing or body piercing on the person of another in the Village of North Aurora without first obtaining a license.

### **5.36.030 - Application and fee.**

#### **A. Tattoo or body piercing establishment:**

1. Every applicant for a license to maintain, operate or conduct a tattoo or body piercing establishment shall file an application upon a form provided by the village and pay a nonrefundable annual filing fee of two hundred fifty dollars (\$250.00) to the building and zoning superintendent. The building and zoning superintendent shall thereafter refer copies of such application and all additional information to the police department, fire department, village administrator, and village president. The application shall state the location of the premises of the proposed establishment. The superintendent shall inspect the premises proposed to be operated as a tattoo or body piercing establishment, and make recommendations to the administrator concerning compliance with the ordinances of the village. Upon receipt of the recommendations of the superintendent, the administrator shall notify the applicant as to whether his/her application has been granted, denied or held for further investigation. The period of such addition investigation shall not exceed an additional thirty (30) days, unless otherwise agreed to by the applicant.
2. The applicant shall also provide a certificate of insurance from an insurance company licensed to do business in the state of Illinois certifying that the applicant has the following coverages in force:

Personal:	
Bodily Injury	\$200,000.00
Property Damage	\$25,000.00

**VILLAGE OF NORTH AURORA**

OR	
Combined Single Limit	\$225,000.00
Worker's Compensation:	
Coverage A:	Statutory Amount
Coverage B, each accident	\$100,000.00

3. All applicants for a tattoo or body piercing establishment license, including all partners and limited partners of a partnership, all officers, directors, and stockholders holding more than ten (10) percent of the stock of a corporate applicant, and all members of a limited liability company shall furnish the following information in the application:
  - a. Name, residence, address and date of birth.
  - b. Social security number and driver's license number, if any.
  - c. Written proof that the individual is at least twenty-one (21) years of age.
  - d. All residential addresses for the past three years.
  - e. The applicant's height, weight, color of eyes and hair.
  - f. The business, occupation or employment of the applicant for the three years immediately preceding the date of application.
  - g. The tattoo, body piercing or similar business experience of the applicant, whether such person has had a business license revoked or suspended, the reason therefor, and the business activity or occupation subsequent to such action of suspension or revocation.
  - h. All criminal or municipal ordinance violations resulting in either a conviction, a forfeiture of bond, or pleadings of nolo contendere, except minor traffic violations.
  - i. The fingerprints and photograph of the applicant.
  - j. If the applicant is a corporation, or a limited liability company, the state of incorporation or organization and the name of the corporation or limited liability company exactly as shown in its articles of incorporation or articles of organization.
4. No tattoo or body piercing establishment license shall be issued or renewed for:
  - a. A person who is not of good character and reputation in the community in which the person resides.
  - b. A person who has been convicted of a felony under any federal or state law, unless the administrator receives a certificate from the chief of police who, after an investigation, certifies that the applicant has been sufficiently rehabilitated to warrant the public trust.



## VILLAGE OF NORTH AURORA

- c. A person who is under twenty-one (21) years of age.
- d. A person who had a tattoo or body piercing license or similar business license revoked by another governmental body for cause.
- e. A person convicted of any offense involving sexual misconduct with children or of pandering, prostitution or solicitation.
- f. Any location that permits any use other than that of a tattoo or body piercing establishment or any location that falls to pass the annual inspection of the regional health department of the state of Illinois or fails to meet any of the standards set forth in the chapter.
- g. Any owner, proprietor, manager or other person in charge of any tattoo or body piercing establishment that employs any person who is not at least twenty-one (21) years of age.

### B. Tattoo or body piercing operator:

- 1. Any person, including the owner of a tattoo or body piercing establishment, before he/she engages in the practice of tattooing or body piercing as herein defined, shall file an application for a license with the superintendent upon a form provided by the village and shall pay an initial license fee of one hundred dollars (\$100.00).
- 2. The application for a tattoo or body piercing operator's license shall contain the following:
  - a. Name, residence, address and date of birth.
  - b. Social security number and driver's license number, if any.
  - c. Applicant's weight, height, color of hair and eyes.
  - d. Written evidence that the applicant is at least twenty-one (21) years of age.
  - e. Business, occupation or employment of the applicant for the three years immediately preceding the date of application.
  - f. A statement whether the applicant has ever been convicted of, pleaded nolo contendere to, or suffered a forfeiture on a bond charge of committing any crime except minor traffic violations. If the answer is in the affirmative, a further statement must be made giving the place and the court in which such conviction, plea or forfeiture was had, the specific charge under which the conviction, plea or forfeiture was obtained, and the sentence imposed as a result thereof.
  - g. The fingerprints and photograph of the applicant.
- 3. No tattoo or body piercing operator's license shall be issued for:
  - a. A person who is not of good character and reputation in the community in which he/she resides.
  - b. A person who has been convicted of a felony under any federal or state law unless the clerk receives a certificate from the chief of police who, after an investigation, certifies that the applicant has been sufficiently rehabilitated to warrant the public trust.
  - c. A person who is under twenty-one (21) years of age.
  - d. A person who had a tattoo or body piercing operator's license or similar license revoked by another governmental body for cause.

## **VILLAGE OF NORTH AURORA**

- e. A person convicted of any offense involving sexual misconduct with children or of pandering, prostitution or solicitation.
- f. Any person who has not had six months experience as an apprentice or a tattoo or body piercing operator or cannot demonstrate that he/she is qualified to be a tattoo or body piercing operator.
- g. Any person who fails to pass the initial or annual medical examination specified in this chapter.

### **5.36.040 - Duration of license**

A tattoo or body piercing establishment license as provided for herein shall be for a term of one year.

### **5.36.050 - Premises.**

No tattoo or body piercing establishment shall receive a license or be operated, established or maintained unless the establishment shall comply with each of the following minimum regulations:

- A. The establishment shall have a certificate of compliance with or inspection by the Kane County health department, if available.
- B. Any room in which tattooing or body piercing is done shall have an enclosed area of not less than five hundred (500) square feet. The walls, floors and ceiling shall have an impervious, smooth and washable surface.
- C. Toilet facilities shall be provided within the establishment which are installed in accordance with the various building codes of the Village of North Aurora. When five or more employees or patrons of different sexes are on the premises at the same time, separate toilet facilities shall be provided and designated as to the sex accommodated therein. Lavatories shall be provided with both hot and cold running water and shall be installed in the toilet room. Lavatories shall be provided with soap and a dispenser with sanitary towels.
- D. The premises shall have equipment for disinfecting and sterilizing nondisposable instruments and materials used in administering tattoos or body piercing, and such nondisposable instruments and materials shall be disinfected after use on each patron. All reusable equipment used in the application of the tattoo or body piercing shall be washed, rinsed, sanitized, and air dried after each use. Then such equipment shall be decontaminated by autoclaving or by applying a high level disinfectant and then stored in a clean, dry and enclosed location so as to prevent contamination.
- E. All tables and other equipment shall be constructed of easily cleanable material, shall be painted or finished in a light color, with a smooth, washable finish, and shall be separated from waiting customers or observers by a solid wall or door totally eliminating any view into the tattooing or body piercing room.
- F. Closed cabinets shall be provided for use in the storage of clean linens, towels, needles and other materials and instruments used in tattooing and body piercing. All used linens, towels,

## VILLAGE OF NORTH AURORA

equipment, instruments and other material shall be kept in properly covered containers or cabinets, which shall be kept separate from the clean storage areas.

- G. The entire premises and equipment shall be maintained in a clean, sanitary condition and in good repair at all times.
- H. No tattoo or body piercing establishment shall be open to the public for business between the hours of 10:00 p.m. and 7:00 a.m.
- I. The main entrance door of any tattoo or body piercing establishment shall be visible from a public street and shall remain unlocked during business hours.

### 5.36.060 - Operating requirements.

- A. The operator shall wash his/her hands thoroughly with antiseptic soap and water before starting any tattoo or body piercing; the hands shall be dried by individual, single use towels. All operators shall be required to use surgical gloves in the performance of their services.
- B. The area on the patron to be tattooed or pierced shall first be thoroughly washed with a sterile, single use sponge with warm water containing an antiseptic liquid soap. The area should be shaved, if necessary, with a safety razor, using single service blades for each customer or patron, followed by a solution of at least seventy (70) percent alcohol to be applied to the area before tattooing or piercing is begun.
- C. Only petroleum jelly in collapsible metal or plastic tubes shall be used on the area to be tattooed or pierced, and it shall be applied with sterile gauze.
- D. Single service or individual containers of dye or ink shall be used for each patron, and the container therefore shall be discarded immediately after completing work on each patron. Any dye in which the needles are dipped shall not be used on another person. All needles, pigments, dyes, colors and all bandages and surgical dressings used in connection with tattooing or body piercing shall be sterile and free from bacteria, virus particles and noxious agents and substances and disposed per the Illinois Pollution Control Board standards for potentially infectious medical waste materials. After completing work on any person, the tattooed or pierced area shall be washed with sterile gauze and at least seventy (70) percent alcohol solution and allowed to dry. A sterile gauze dressing shall be fastened to the tattooed or pierced area.
- E. Operators shall at all times while in the performance of their services wear uniforms or garments which cover the torso, and said garments shall be kept clean and in a sanitary condition.
- F. No person, while on the premises of any tattoo or body piercing establishment, shall possess, sell, dispense, provide, give, keep or maintain any alcoholic beverage.
- G. No intoxicated person or person under the influence of illicit substances shall be tattooed or pierced by an operator on the licensed premises.
- H. Licensees shall at all times comply with the regulations of the department of labor's occupational safety and health administration as presently existing or hereafter amended, with respect to occupational exposure to blood, blood borne pathogens or other potentially infectious materials, which regulations are incorporated by reference herein.

## **VILLAGE OF NORTH AURORA**

- I. Price rates for all services shall be prominently posted in the reception area in a location available to all prospective customers.
- J. No tattooing or body piercing shall be done on any skin surface that has rash, pimples, boils, infections, or manifests any evidence of unhealthy conditions.
- K. Written parental consent shall be obtained before any person under the age of twenty-one (21) is tattooed or pierced.
- L. Every owner of a tattooing or body piercing establishment shall have the premises inspected prior to the issuance of a license and annually thereafter, by the Kane County health department. A copy of the report, disclosing no health violations, shall be furnished the village annually. The issuance of a license, or renewal thereof, is contingent upon said report being furnished the village.

### **5.36.070 - Inspection.**

- A. Any village department or agency may make an inspection of each establishment granted a license under the provisions of this chapter for the purposes of determining compliance with the provisions of this chapter.
- B. It shall be the duty of each tattoo or body piercing operator to keep and maintain an index card for three years for each person who is tattooed or pierced in their establishment. The customer card file shall be available for inspection by the village officials, and the following information shall be shown on each card of each person tattooed or pierced:
  - 1. Date of tattooing or body piercing.
  - 2. Name of customer.
  - 3. Address of customer.
  - 4. Age of customer.
  - 5. Name of tattoo or body piercing operator.
  - 6. Address of tattoo or body piercing operator.
  - 7. Charges for tattooing or body piercing.
  - 8. A brief and accurate description of the place on the body tattooed or pierced and a description of the tattoo or piercing.

### **5.36.080 - License revocation and suspension.**

It shall be cause for revocation or suspension that a licensee has violated the provisions of this chapter or any code or ordinance of the village relative to operation of the business or use of the premises; has made a false statement on any application for license under this chapter or refuses to permit any authorized police officer or authorized member of the police department or building department of the village to inspect the premises or the operations thereof at reasonable times; or becomes ineligible to hold a license as required in Section 5.36.030.

## **VILLAGE OF NORTH AURORA**

### **5.36.090 - Transfer of license prohibited.**

No license for the operation of a tattoo or body piercing establishment or operator's license shall be transferable.

### **5.36.100 - Display of license required.**

Each licensee shall display a valid current license in a conspicuous place within the licensed establishment so that the same may be readily seen by persons entering the establishment.

### **5.36.110 - Exceptions.**

The provisions of this chapter shall not apply to licensed medical doctors or doctors of osteopathic medicine who perform tattooing or body piercing of individuals while in the course of their medical practice.

### **5.36.120 - Tattooing or body piercing of minors.**

In accordance with 720 ILCS 5/12-10.1:

- A. No person may pierce the body of a person under eighteen (18) years of age without written consent of a parent or legal guardian of that person, which written consent must be obtained prior to the piercing and be in substantially the following form:

"I understand that the oral piercing of the tongue, lips, cheeks, or any other area of the oral cavity carries serious risk of infection or damage to the mouth and teeth, or both infection and damage to those areas, that could result but is not limited to nerve damage, numbness, and life threatening blood clots."

- B. Any person who is an owner or employed by a business that performs tattooing or body piercing may not permit a person less than eighteen (18) years of age to enter or remain on the premises where tattooing or body piercing is being performed unless the person under eighteen (18) years of age is accompanied by his or her parent or legal guardian.

### **5.36.130 - Tongue splitting.**

A person may not perform tongue splitting on another person unless the person performing the tongue splitting is licensed to practice medicine in all its branches under the Medical Practice Act of 1987 or licensed under the Illinois Dental Practice Act.

### **5.36.140 - Penalty.**

## VILLAGE OF NORTH AURORA

In addition to license suspension or revocation as provided above, any licensee violating any of the provisions of this chapter shall be fined not less than seventy-five dollars (\$75.00) or more than seven hundred fifty dollars (\$750.00), and a separate offense shall be determined to have been committed each day during which or on which the violation occurs or continues.

SECTION 3: If any section, subsection, subdivision, paragraph, sentence, clause or phrase of this Ordinance or any part thereof is for any reason held to be unconstitutional or invalid or ineffective by any court of competent jurisdiction, such decision shall not affect the validity or effectiveness of the remaining portions of this Ordinance, or any part thereof. The Village Board of Trustees hereby declares that it would have passed each section, subsection, subdivision, paragraph, sentence, clause or phrase thereof irrespective of the fact that anyone or more sections, subsections, subdivisions, paragraphs, sentences, clauses or phrases be declared unconstitutional, invalid or ineffective.

SECTION 4: This Ordinance shall take immediate full force and effect from and after its passage, approval, publication and such other acts as required by law.

Presented to the Board of Trustees of the Village of North Aurora, Kane County, Illinois this \_\_\_\_\_ day of \_\_\_\_\_, 2017, A.D.

Passed by the Board of Trustees of the Village of North Aurora, Kane County, Illinois this \_\_\_\_\_ day of \_\_\_\_\_, 2017, A.D.

Mark Carroll \_\_\_\_\_

Laura Curtis \_\_\_\_\_

Mark Gaffino \_\_\_\_\_

Mark Guethle \_\_\_\_\_

Michael Lowery \_\_\_\_\_

Tao Martinez \_\_\_\_\_

Approved and signed by me as President of the Board of Trustees of the Village of North Aurora, Kane County, Illinois this \_\_\_\_\_ day of \_\_\_\_\_, 2017, A.D.

\_\_\_\_\_  
Dale Berman, Village President

ATTEST:

\_\_\_\_\_  
Lori Murray, Village Clerk



## MEMORANDUM

TO: KGD

FROM: EJB

DATE: 6/27/2017

RE: VONA - TATOO ORDINANCE

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You asked me to determine whether the Village's Ordinance requiring a certificate from a physician containing specific medical information regarding sexually transmitted diseases raises any legal concerns. In particular, you asked whether it violates the The Health Insurance Portability and Accountability Act of 1996 (HIPAA). The subject Ordinance is located at 5.36.030 (B) (3).

### BACKGROUND

#### State Regulation of tattoo artists and body piercers

After taking a consensus of nearby local communities, there are two approaches to regulating tattoo and body piercing businesses. Most municipalities use a combination of the two: 1) requiring a physician to be present or on call (e.g., Naperville, Aurora, West Chicago, VONA); and 2) Regulations mirroring Illinois law (Tattoo and Body Piercing Establishment Registration Act with accompanying regulations). North Aurora is the only municipality I could find that requires a physician statement before licensure.

Tattoo parlors are currently regulated under 410 ILCS 54, the Tattoo and Body Piercing Establishment Registration Act, which became law in 2009. The prior law that was in effect at the time the Village's Ordinance took effect was subject to a sunset provision and is no longer valid. Together with its published regulations, the Tattoo and Body Piercing Establishment Registration Act provides a comprehensive state level licensing program with significant regulations governing inspections, standards of operation, buildings, sanitation/sterilization, prohibitions, disclosures, enforcement, punishment, adjudication, and its own public nuisance provision. Its purpose is similar to that of the Village's ordinance in that it recognizes the risk of blood borne illnesses like Hepatitis and HIV require regulation to preserve the health, safety, and welfare of the people of Illinois. It does not contain a physician statement requirement.

#### HIPAA

The Health Insurance Portability and Accountability Act of 1996 (HIPAA) strictly limits the circumstances in which an individual's personal health information and other information may be used or disclosed. The privacy rules do not limit the ability of individuals to disclose their own medical records. Instead, the rules only govern "covered entities" and their "business associates." A covered



## MEMORANDUM

entity is defined as a healthcare clearing house, an insurance plan, and includes most healthcare providers. 45 C.F.R. § 160.103. Business associates generally include all third parties that obtain protected health information while providing services to a covered entity. 45 C.F.R. § 160.103.

There are several exceptions. Of particular relevance to the Village's Ordinance are: 1) The safe harbor of de-identified information (no identifying information) exception; 2) Authorization Exception (consent); 3) The law enforcement exception; 4) Use and disclosures for health oversight activities exception. 45 CFR 164.512.

The health oversight activities exception states that "[a] covered entity may disclose protected health information to a health oversight agency for oversight activities authorized by law, including audits; civil, administrative, or criminal investigations; inspections; licensure or disciplinary actions; civil, administrative, or criminal proceedings or actions; or other activities necessary for appropriate oversight of:

- (i) The health care system; (ii) Government benefit programs for which health information is relevant to beneficiary eligibility; (iii) Entities subject to government regulatory programs for which health information is necessary for determining compliance with program standards; or (iv) Entities subject to civil rights laws for which health information is necessary for determining compliance.

Health oversight agency includes a political subdivision of a State, including the employees or agents, that are authorized by law to oversee a government program in which health information is necessary to determine eligibility or compliance.

The authorization exception (i.e. consent) requires specific, written authorization from the individual. A valid authorization to release protected health information must contain the following elements: (1) a specific and meaningful description of the information to be disclosed; (2) the name or specific identification of the person authorized to make the disclosure; (3) the name or specific identification of the persons to whom the disclosure may be made; (4) a description of the purpose of the requested use or disclosure of the information; (5) an expiration date; and (6) the signature of the consenting individual and date (if signed by a representative, a description of the representative's authority to act). 45 C.F.R. 164.508(c)(1)(i)-(vi). In addition, the release authorization must contain statements adequate to notify the individual of (1) the individual's right to revoke the authorization; (2) the exceptions to the right to revoke the authorization; (3) a description of how the individual may revoke the authorization; and (4) a statement that the information may be redisclosed and is no longer protected. 45 C.F.R. 164.508(c)(2).

The law enforcement exception is also interpreted quite broad. Virtually every federal, state and local government agency qualifies as a law enforcement official if the agency has authority to investigate or conduct an inquiry into any potential violation of law. It is likely that even if the health oversight exception failed, the law enforcement exception would apply.



## MEMORANDUM

Note that Illinois has enacted the Illinois Health Insurance Portability and Accountability Act, 215 ILCS 97/1, et seq. However, the state law focuses more on portability of health insurance than on privacy of health information.

### ANALYSIS

#### Likely no HIPAA Violation implicated by the Village's Ordinance

HIPAA only applies to "covered entities" and "business associates" and the Village is neither. In practice, the Village likely obtains the certification either from the doctor directly or from the individual employee. The covered entity (the doctor's office) producing the physician statement is subject to HIPAA. The doctor likely obtains authorization from the tattoo parlor employee or justifies its release under the governmental regulatory exceptions, which arguably, the Village is operating as in this context. Even if the Village is somehow a "covered entity" it still would not be subject to liability so long as it does not disclose the physician statement. Liability does not attach until there has been an improper disclosure and it does not attach to the receiving entity regardless of whether it was supposed to receive the record. I do want to highlight that the Freedom of Information Act specifically considers medical records to be private information. However, it would be impossible for the Village to remove all identifiers. Still, these records can be justifiably withheld by the Village if they were requested.

#### Possible Preemption

Arguably, there is a greater chance that the Village's Ordinance and in particular, the doctor certification provision may be preempted by the Tattoo and Body Piercing Establishment Registration Act (Act). However, that conclusion is also unlikely.

A non-home-rule municipality has only that police power given to it by the General Assembly and possesses no inherent power. While the Act does not contain an express statement of preemption, it does contain comprehensive regulation. Where there is comprehensive state level regulation, a local body may not be free to regulate in that area. Hawthorne v. Vill. of Olympia Fields, 204 Ill. 2d 243, 261 (2003).

In Hawthorne, after the Department of Children and Family Services (DCFS) issued Hawthorne a license to operate a home day care at her municipal residence, she contacted the Village of Olympia Fields "to obtain a building permit so that she could remodel portions of the premises." Hawthorne, 204 Ill.2d at 245-46. In response, the village advised Hawthorne that its zoning ordinance did not provide for the operation of home day cares and that she would therefore have to obtain a zoning variance before she could obtain her requested building permit. Id. at 246. After applying for and being denied a zoning variance, Hawthorne sued the village, arguing, inter alia, that "its zoning ordinance had the effect of wholly excluding home day care from the village and that such action [was] beyond the village's power." Id. at 247-48. Finding that the village could neither prohibit the operation of a licensed home day care nor regulate the same in contravention of DCFS regulations, the circuit court declared the village's zoning ordinance null and void to the extent that it was preempted

## MEMORANDUM

by state law. Id. at 249–50. After the appellate court affirmed the circuit court’s judgment, the Illinois Supreme Court granted the village’s petition for leave to appeal. Id. at 251.

When affirming the judgment of the appellate court, the Illinois Supreme Court observed that the Child Care Act of 1969 (225 ILCS 10/1 et seq. (West 2000)) gave DCFS the statewide authority to license and regulate home day cares, but “[n]otably absent” from the statute was “any provision delegating authority to, or allowing regulation by, units of local government.” Hawthorne, 204 Ill.2d at 260 (citations omitted). Applying Dillon’s Rule, the court concluded that the village’s ordinance prohibiting home day cares was preempted by state law. Hawthorne, 204 Ill.2d at 255. In so holding, the court rejected the village’s contention that had the legislature “intended the Child Care Act and its regulations to have preemptive effect, it would have said so explicitly in the legislation.” stating:

That doctrine [(preemption)] holds that where the legislature has enacted a comprehensive system of regulation and licensure, as it did in this case, the legislature implies by that system that there is no room for regulation by local governmental units.

The Statute (Child Care Act of 1969) and its regulations bears a lot of similarities to the Tattoo and Body Piercing Establishment Registration Act. Under its statutory authority, DCFS promulgated comprehensive regulations governing the physical facilities a day-care home must possess; the characteristics and qualifications of the home’s family, caregivers, assistants and substitute caregivers; the number and ages of children the home may serve; the opportunities for daily activity the home must provide to the children; and a wide variety of other matters ranging from nutrition and meals. Likewise, the Department of Public Health has also promulgated comprehensive regulations governing tattoo parlors. Note that the DCFS regulations are arguably more complex and further reaching.

### Conclusion

The decision in Hawthorne should not be construed as a ban on all types of regulation, but more as a ceiling regarding the extent of any regulation. Moreover, unlike Hawthorne, the Village’s Ordinance does not act as an outright ban; and partial enforcement under the Act is ceded to the local county’s health department. After looking at the regulations of nearby municipalities, including those that are non-home-rule, it appears that most are not concerned with the possibility of preemption. However, while there is always a separate license and fee, most do not go above and beyond the regulations provided for in the Act. Some home rule entities, however, have achieved an outright ban by requiring a physician to be present. While the doctors statement is aggressive, it is not so above and beyond the Act that it would be incapable of withstanding judicial scrutiny.

I spoke with a medical professional over the weekend regarding the risks posed by tattoo artists with a communicable disease and it was “unofficially” conveyed that there probably is not a greater risk. So, the Village may actually derive little benefit from the provision. If the Village is willing, it may be appropriate to have an internal discussion regarding the merits of the provision and the possibility of reworking the entire ordinance in light of the new law.



## MEMORANDUM

Regardless, if the Village wishes to keep the physician statement requirement, there is likely no HIPAA violation or preemption issue.



# Memorandum



**To:** Mike Toth, Community & Economic Development Director  
**From:** David Hansen, Administrative Intern  
**Date:** 8-15-17  
**Re:** Local Tattoo Establishment Applicant Requirements

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At the August 7<sup>th</sup> Committee of the Whole Meeting, the applicant process for tattoo establishments was discussed. Staff followed up the discussion by researching how other Chicagoland municipalities approach the topic. Upon reviewing eleven municipal codes, only one code, the Village of Grayslake, required the applicant to undergo and pass a physical examination regarding communicable diseases. The other ten surrounding localities (Aurora, Batavia, DeKalb, Geneva, Montgomery, Naperville, St. Charles, South Elgin, Warrenville, and West Chicago), do not require a communicable diseases examination in their municipal codes.

Municipality	Communicable Diseases Exam?
Aurora	No
Batavia	No
DeKalb	No
Geneva	No
Grayslake	Yes
Montgomery	No
Naperville	No
South Elgin	No
St. Charles	No
Warrenville	No
West Chicago	No

**TITLE 77: PUBLIC HEALTH**  
**CHAPTER I: DEPARTMENT OF PUBLIC HEALTH**  
**SUBCHAPTER m: FOOD DRUGS AND COSMETICS**  
**PART 797 BODY ART CODE**

**Section 797.1300 Body Artist Proficiency Requirements**

- a) The operator shall hire only body artists who have complied with the body artist proficiency requirements of this Part.
- b) No person shall conduct body art procedures without first demonstrating proficiency and knowledge of this Part.
- c) The operator shall determine that each body artist possesses knowledge of the following subjects:
  - 1) Anatomy;
  - 2) Infectious disease control, including waste disposal, hand-washing techniques, sterilization equipment operation and methods, and sanitization/disinfection/sterilization methods and techniques; and
  - 3) Skin diseases, disorders and conditions (including diabetes).
- d) Body artists/apprentices shall maintain documentation of completion of "Bloodborne Pathogen Training", as required by OSHA (29 CFR 1910.1030) at the body art establishment.
- e) A list of all body artists who have complied with this Section and all other provisions of this Part shall be posted in a prominent and conspicuous area of the establishment.

**Section 797.1500 Enforcement**

- a) The Department shall inspect any establishment, mobile body art establishment/unit, or any other place that it believes is required to apply for a certification of registration under the Act and this Part, as often as necessary to ensure compliance with this Part. The initial inspection of a mobile body art establishment shall take place at a location identified by

the Department. Additional inspections may be performed at any event where the mobile body art establishment is scheduled to operate.

- b) If the Department is denied access to any establishment, mobile body art establishment/unit, or any other place that it believes is required to apply for certification of registration under the Act and this Part, the Department shall request intervention of local, county or State law enforcement agencies to seek a court order or warrant to investigate and enter the establishment, mobile body art establishment/unit, or any other place. Any person or entity preventing the Department from carrying out its duties under the Act or this Part shall be guilty of a violation of the Act and shall be subject to penalties.

- c) If the Department suspects that a communicable disease is or may be transmitted by an operator/apprentice, by use of unapproved or malfunctioning equipment, or by unsanitary or unsafe conditions and practices or other imminent health hazard that may adversely affect the health of the public, upon written notice to the owner or operator, the Department shall do any or all of the following:

- 1) Issue an order excluding any or all operators/apprentices from the body art establishment who are responsible, or appear to be responsible, for the transmission of a communicable disease until the Department determines there is no further risk to public health;
- 2) Issue an order to immediately suspend the certificate of registration of the establishment until the Department determines that there is no further risk to the public health. The order shall state the cause for the action.

# Memorandum



To: Dale Berman, Village President & Board of Trustees  
Cc: Steven Bosco, Village Administrator  
From: John Laskowski, Public Works Director  
Date: September 11, 2017  
Re: Purchase of a New Freightliner Plow and Dump Truck

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The Public Works Department is seeking to purchase a new combination five yard dump and plow truck. The purchase of a new vehicle was budgeted in the 2017-2018 fiscal year from the Vehicle and Equipment Fund in the amount of \$150,000.

The vehicle that Public Works is requesting is a Freightliner equipped with 5 cubic yard box, a salt spreader, and an 11' snow plow. The primary use for this vehicle will be to remove snow and spread salt in the winter during snow and ice removal operations. However the truck is a versatile asset that will be used year round. In addition to hauling and spreading salt, it will also haul: asphalt, black dirt, wood chips, and various gradations of stone. After storm events this truck will assist by hauling tree limbs. During water main breaks or storm and sanitary repairs this truck will carry steel castings, manhole lids and various diameters of pipe needed to repair utilities.

Currently there are 7 trucks in the fleet that perform these operations. The table below identifies each of the vehicles.

**Table 1. List of Dump and Plow Trucks in Fleet**

Vehicle No.	Division	Fuel	Year	Make/ Model
165	STREET	DIESEL	2016	FREIGHTLINER 108SD
170	STREET	DIESEL	2004	INTERNATIONAL 5 YARD LOBOY
176	STREET	DIESEL	2005	INTERNATIONAL 5 YARD CAB
178	STREET	DIESEL	2013	INTERNATIONAL 7400 4X2 (Hook system)
179	STREET	DIESEL	2013	INTERNATIONAL 7400 4X2 (Standard)
180	STREET	DIESEL	2010	INTERNATIONAL 7400 4X2
186	STREET	DIESEL	2007	INTERNATIONAL 7000 SERIES 7400

Vehicle number 165 is identical to the vehicle proposed for purchase and is pictured in the photograph below. It was ordered in 2015 delivered in 2016 and has no maintenance needs to date. This vehicle positions the driver at a higher vantage point which allows for better visibility of street. Staff feels this attests to the durability of the Freightliner trucks.



**Figure 1. Vehicle number 165, same as proposed new vehicle.**



The oldest vehicle in the fleet is scheduled for replacement. It is number 170, the 2004 International 5 Yard LoBoy. It was just serviced for a leaky radiator and broken turbo. Without the turbo function on the International trucks it is not capable of going above 25 miles per hour. The cost of the repairs to this vehicle were \$4,865.70 including the tow cost of \$555. The repair of the turbo is a repair that occurs frequently to the International trucks in our fleet. This repair is one the International manufacturer has not address over time and is one reason the Village has chosen Freightliner in the recent past. This vehicle is a critical component to the Public Works plowing operation. Public Works will need to rely on this truck for this winter since it takes approximately six months for the delivery of a new truck.

The Public Works Department proposes to replace vehicle 170 with the new Freightliner truck. Vehicle 170 is estimated to have an auction value of approximately \$14,000. In the future, the Public Works Department would ask to consider retaining a vehicle as part of a fleet succession plan. The retained vehicle would be used as a spare vehicle so if a vehicle breaks down during snow plow operations, another vehicle is available to keep plowing operations running smoothly. Currently if a truck breaks down the Village would have to rely on a contractor to plow the snow route until the vehicle is back in service. This could



potentially reduce the effectiveness and efficiency of the snow plow operation since the contractor has no familiarity with the route.

In a proposed fleet succession plan, the next vehicle scheduled for replacement would be vehicle number 176, which is a 2005 International 5 Yard Cab. This vehicle would be designated as the spare and have limited use. One advantage to retaining the vehicle is that the plow and salt spreader are interchangeable with the other trucks in the fleet. A useful plow or spreader could be swapped with one from another truck in the fleet.

The retention of a spare vehicle also provides the Public Works Department with added flexibility. It is an opportunity to anticipate future growth within the Village. If the population continues to grow with the addition of future developments, staff could use the truck to meet the demand for additional services. For example this truck could be used by a part-time employee if it is determined to be more cost effective than hiring an additional contracted employee for snow and ice removal services.

The Public Works Department evaluated pricing for a new 5 Yard Plow and Dump truck using the State Bid process. The State Bid process is a competitive bid process that solicits bids from vendors around the state for vehicles, equipment, and even office supplies. The low bidder receives the contract from the State and local agencies are then offered the opportunity to purchase vehicles at the prices received by the State. The State contract is based on volume and the process is competitive.

The base cost of the truck is \$84,978 and the snow and ice equipment needed to outfit the truck is \$70,128, for a total cost of \$155,106.00. The details of the snow and ice equipment, as well as the base cost for the truck is attached to the memo for reference.

The total cost of this request is \$5,106.00 more than the \$150,000 estimated in the 2017-2018 budget for this vehicle. At this time the Public Works Department is requesting an additional \$5,106 for the purchase of the Freightliner 108SD plow and dump truck in the total amount of \$155,106.00.



**QUOTATION**  
 Monroe Truck Equipment  
 812 Draper Avenue  
 Joliet, IL 60432  
 Phone: 815-280-4237  
 Fax: 815-727-5429  
 Email: [bdrews@monroetruck.com](mailto:bdrews@monroetruck.com)  
[www.monroetruck.com](http://www.monroetruck.com)

Quote Number: 48D0001676-1  
 Job Order Number:  
 Quote Date: 7/31/2017  
 Quote valid until: 8/30/2017  
 Terms: NET 30  
 Salesperson: MARKEL, TOM  
 Quoted By: Bob Drews

**Customer:** TRANS CHICAGO TRUCK GROUP,  
 (7173800)  
 776 N YORK RD  
 ELMHURST, IL 60126

**Contact:** DUANE SCHAEFFER  
**Phone:** 630-279-0600 **Fax:** 847-671-0180  
**Email:**

**Dealer Code:** \_\_\_\_\_  
**P.O. Number:** \_\_\_\_\_

**Accepted by:** \_\_\_\_\_  
*Customer must fill out the information above before the order can be processed.*

**Date:** \_\_\_\_\_

**Chassis Information**

<b>Year:</b> 2017	<b>Make:</b> FREIGHTLINER	<b>Model:</b> BUSINESS CLASS	<b>Chassis Color:</b> SCHOOL BUS	<b>Cab Type:</b> REGULAR
<b>Single/Dual:</b> DRW	<b>CA:</b> 106.0	<b>CT:</b> -1.0	<b>Wheelbase:</b>	<b>Engine:</b> DIESEL
			<b>F.O. Number #:</b>	<b>Vin:</b>

**Comments:** NORTH AURORA (REVISED W/5150)

**Monroe Truck Equipment, Inc. is pleased to offer the following quote for your review:**

DESCRIPTION	AMOUNT
DUMP BODY - 10', 5-7 YARD CAPACITY, CRYSTEEL GLADIATOR	
- SIDES: 26", 7GA 201 STAINLESS	
- FRONT: 48", 7GA 201 STAINLESS	
- REAR : 36", 7GA 201 STAINLESS	
- FLOOR: 3/16" AR400 9" RADIUS	
- FULL RIBBED TAILGATE WITH AIR TRIP	
- STAINLESS CABSHIELD 100% WELDED	
- WESTERN UNDERSTRUCTURE	
- 3/8" X 1 1/2" FLAT WALK RAIL BOTH SIDES	
- SLIDE OUT LADDER AND GRAB HANDLE RIGHT SIDE OF BODY	
- STAINLESS STEEL SHOVEL HOLDER	
- REFLECTIVE TAPE ACROSS THE BACK OF THE CAB AND SIDES OF BODY	
- SELF ADJUSTABLE 87-107 DB BACKUP ALARM	
- RECESSED LED S/T/T AND BACKUP LIGHTS WITH SEALED WIRE HARNESS	
- (2) WORK/SPREADER LIGHT, CLEAR LED	
- FULL POLY FENDERS WITH SMALL RUBBER FLAP ON REAR	
- VIBRATOR	
- BARE STAINLESS NO PAINT, UNDERCOATED	
CRYSTEEL RC750 SUBFRAME HOIST	
- 17.2 TON CAPACITY	
- 2000 P.S.I.	
- FULLY GREASABLE HINGE AND ROLLERS	
- DOUBLE ACTING	
TOWING:	
- PINTLE HOOK W/MOUNTING, 50 TON	
- 7 WAY RV STYLE TRAILER PLUG	
PAINT HOOD FLAT BLACK	
LIGHTING:	
- 72" JUSTICE LED LIGHT BAR MOUNTED ON ROOF	
- SCENE LIGHTS IN LIGHT BAR	
- REAR BODY LED STROBES MOUNTED IN CORNER POST	
- LED S/T/T MOUNTED IN REAR POST, PINTLE PLATE AND ON TOP OF CAB SHIELD	
- LED BACK UP LIGHT MOUNTED IN REAR CORNER POST	
- 2 AMBER AND 1 CLEAR STORBE INSTALLED OUTSIDE THE CORNER POST ON EACH SIDE	
- 2-YEAR WARRANTY	
MONROE 240 GALLON BEHIND THE CAB FRAME MOUNTED LIQUID DISPENSING SYSTEM	
STANDARD EQUIPMENT:	
- CLOSED LOOP	
- HYDRAULIC 4 GPM MOTOR/PUMP COMBINATION	

DESCRIPTION	AMOUNT
- (2) 120 GALLON POLY TANKS - 304 STAINLESS MOUNTING HARDWARE - BULK FILL KIT - FLUSH KIT  MANUAL/ELECTRIC HYDRAULICS PACKAGE STANDARD EQUIPMENT: - HOT SHIFT PTO - TXV92 PUMP - HOIST: 4WAY/3POS, W/500 PSI A PORT RELIEF, 40 GPM - LOAD SENSE MID-INLET SECTION, 2500 PSI MAIN RELIEF - PLOW LIFT: 4 WAY/3POS, 20 GPM, MANUAL - PLOW ANGLE: 4 WAY/3POS, 20 GPM, MANUAL - PRE-WET: 2 WAY, 7 GPM - AUGER: 2 WAY, 14 GPM - SPINNER: 2 WAY, 7 GPM - 30 GALLON CAPACITY FILTER STAINLESS HYDRAULIC RESERVOIR WITH INTERNAL FILTER - FILLER/BREATHER CAP, LEVEL/TEMP SIGHT GLASS, 3/4" MAGNETIC PLUG, - 60 P.S.I. CONDITION INDICATOR - STAINLESS ENCLOSURE WITH WEATHER TIGHT COVER - HYDRAULIC ENCLOSURE WILL BE MOUNTED ON FRAME RAIL - FORCE 5150 CONTROL FOR PLOW & HOIST (NON-PROPORTIONAL) - FORCE 5100EX-3F GROUND BASED SPREADER CONTROL - MISC HOSES AND FITTINGS - STAINLESS STEEL LINES TO REAR - INSTALLED  TRUCK PORTION - QUICK HITCH - FOLD FLAT LIFT ARM - DOUBLE ACTING LIFT CYLINDER - SIDE PLATES AND REATTACHED O.E.M. BUMPER - STAINLESS STEEL PLOW MOUNT BRACKETS - LED HEATED PLOW LIGHTS MOUNTED ON HOOD  MONROE FULL MOLDBOARD TRIP REVERSIBLE PLOW STANDARD EQUIPMENT: - 41" TALL X 11' WIDE WITH INTEGRAL SHIELD - 10 GAUGE ROLL FORMED STRAIGHT MOLDBOARD - (6) 1/2" X 4" TAPERED, ONE-PIECE FLAME CUT RIBS - 2" X 3" X 3/8" TOP MOLDBOARD ANGLE - 4" X 4" X 3/4" BOTTOM MOLDBOARD ANGLE - HORIZONTAL MOLDBOARD BRACE ANGLES - 5/8" X 8" ONE-PIECE TOP PUNCH CUTTING EDGE - DUAL COMPRESSION TRIP SPRING ASSEMBLIES - 4" X 4" X 3/8" CROSS-TUBE SUPPORT - 3-1/2" X 3-1/2" X 1/2" SEMI-CIRCLE - (2) 3" X 10" DOUBLE ACTING POWER REVERSE CYLINDERS WITH CUSHION VALVE - BUILT-IN MONROE LEVEL LIFT ASSEMBLY - MOLDBOARD AND PUSHFRAME 100% CONTINUOUSLY WELDED - MOLDBOARD POWDER COATED ORANGE - PUSH FRAME POWDER COATED BLACK - MONROE QUICK HITCH - SCREW ADJUSTABLE PARKING JACK - 36" FLUORESCENT ORANGE FLEXIBLE MARKERS - RUBBER SNOW DEFLECTOR  MONROE UNDER-TAILGATE, DIRECT DRIVE SPREADER (MS966-RF-DD) W/ SPEED SENSOR - 201 STAINLESS STEEL - CLOSED LOOP - 6" DIA. AUGER W/ REVERSE FLIGHTING FOR LEFT OF CENTER DISCHARGE - 7 GA., 96" TROUGH W/ 1/4" END PLATES - ONE-PIECE, REMOVABLE & HINGED, COMBINATION COVER & REAR PANEL - HEAVY-DUTY, STEEL ROD, CAPTIVE LATCHES - QUICK DETACH MOUNTING BRACKETS - TAILGATE SHIELDS - S.S. SPINNER ASSEMBLY WITH POLY DISC - S.S. TROUGH MOUNTED SPRAY BAR FOR PREWET - INSTALLED	
Quote Total:	\$70,128.00

- ◆ Terms are Due Upon Receipt unless prior credit arrangements are made at the time of order.
- ◆ Please note if chassis is furnished, it is as a convenience and terms are Net Due on Receipt of Chassis.
- ◆ State and Federal taxes will be added where applicable.
- ◆ Restocking fees may be applicable for cancelled orders.

**Prepared for:**  
Village of North Aurora  
25 East State St  
North Aurora, IL 60542  
Phone:

**Prepared by:**  
Duane Schaefer  
TRANSCHICAGO TRUCK  
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776 N. YORK ROAD  
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Phone: 630-279-0600 ext 609  
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duaneschaefer@transchicago.com

*A proposal for*  
**Village of North Aurora**  
*Using*  
**IL State Toll Hwy - Add-Ons**  
**CMS BID # 227888 – CONTRACT PSD # 4018133**  
Draft # 2 – upgraded Hydraulics

*Prepared by*  
**TRANSCHICAGO TRUCK GROUP**  
*Duane Schaefer*

*Aug 04, 2017*

**Freightliner 108SD**



Components shown may not reflect all spec'd options and are not to scale

Application Version 9.2.411  
Data Version PRL-16D.014  
North Aurora SA Plow 17 AUG  
Upgrade Hydr



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Freightliner reserves the right to change specifications, prices, and weights, without notice.

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## SPECIFICATION PROPOSAL

Description
<b>Price Level</b>
SD PRL-16D (EFF:04/25/17)
<b>Data Version</b>
SPECPRO21 DATA RELEASE VER 014
<b>Interior Convenience/Driver Retention Package</b>
NO INTERIOR CONVENIENCE PACKAGE
<b>Vehicle Configuration</b>
108SD CONVENTIONAL CHASSIS 2018 MODEL YEAR SPECIFIED SET BACK AXLE - TRUCK TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK LH PRIMARY STEERING LOCATION
<b>General Service</b>
TRUCK/TRAILER CONFIGURATION DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES) UTILITY/REPAIR/MAINTENANCE SERVICE GOVERNMENT BUSINESS SEGMENT BUILDING MATERIAL COMMODITY TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS MAXIMUM 8% EXPECTED GRADE SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE FREIGHTLINER SD VOCATIONAL WARRANTY EXPECTED FRONT AXLE(S) LOAD : 18000.0 lbs EXPECTED REAR DRIVE AXLE(S) LOAD : 23000.0 lbs

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#### Description

EXPECTED GROSS VEHICLE WEIGHT CAPACITY  
: 41000.0 lbs  
EXPECTED GROSS COMBINATION WEIGHT :  
50000.0 lbs

#### Truck Service

FRONT PLOW/END DUMP BODY  
EXPECTED TRUCK BODY LENGTH : 10.0 ft  
MONROE TRUCK EQUIPMENT

#### Tractor Service

VAN TRAILER  
SINGLE (1) TRAILER

#### Engine

CUM L9 350 HP @ 2000 RPM, 2200 GOV RPM,  
1000 LB/FT @ 1400 RPM

#### Electronic Parameters

75 MPH ROAD SPEED LIMIT  
CRUISE CONTROL SPEED LIMIT SAME AS ROAD  
SPEED LIMIT  
PTO MODE ENGINE RPM LIMIT - 1100 RPM  
PTO MODE BRAKE OVERRIDE - SERVICE  
BRAKE APPLIED  
PTO RPM WITH CRUISE SET SWITCH - 800 RPM  
PTO RPM WITH CRUISE RESUME SWITCH - 700  
RPM  
PTO MODE CANCEL VEHICLE SPEED - 5 MPH  
PTO GOVERNOR RAMP RATE - 250 RPM PER  
SECOND  
PTO MINIMUM RPM - 700  
REGEN INHIBIT SPEED THRESHOLD - 0 MPH

#### Engine Equipment

2016 ONBOARD DIAGNOSTICS/2010  
EPA/CARB/FINAL GHG17 CONFIGURATION  
NO 2008 CARB EMISSION CERTIFICATION  
NO 2013 ENGINE ESCALATOR  
STANDARD OIL PAN  
OIL FILL AND DIPSTICK LOCATED FOR  
ENHANCED SERVICEABILITY



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**Description**

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SIDE OF HOOD AIR INTAKE WITH FIREWALL  
MOUNTED DONALDSON AIR CLEANER AND  
INSIDE/OUTSIDE AIR WITH SNOW DOOR  
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD  
ALTERNATOR WITH REMOTE BATTERY VOLT  
SENSE  
(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT  
MAINTENANCE FREE 2250 CCA THREADED  
STUD BATTERIES  
BATTERY BOX FRAME MOUNTED  
STANDARD BATTERY JUMPERS  
SINGLE BATTERY BOX FRAME MOUNTED LH  
SIDE UNDER CAB  
WIRE GROUND RETURN FOR BATTERY CABLES  
WITH ADDITIONAL FRAME GROUND RETURN  
NON-POLISHED BATTERY BOX COVER  
POSITIVE LOAD DISCONNECT WITH CAB  
MOUNTED CONTROL SWITCH MOUNTED  
OUTBOARD DRIVER SEAT  
POSITIVE AND NEGATIVE POSTS FOR  
JUMPSTART LOCATED ON FRAME NEXT TO  
STARTER  
CUMMINS TURBOCHARGED 18.7 CFM AIR  
COMPRESSOR WITH INTERNAL SAFETY VALVE  
ELECTRONIC ENGINE INTEGRAL WARNING AND  
DERATE PROTECTION SYSTEM  
NO RETARDER  
RH OUTBOARD UNDER STEP MOUNTED  
HORIZONTAL AFTERTREATMENT SYSTEM  
ASSEMBLY WITH RH B-PILLAR MOUNTED  
VERTICAL TAILPIPE  
ENGINE AFTERTREATMENT DEVICE,  
AUTOMATIC OVER THE ROAD REGENERATION  
AND DASH MOUNTED REGENERATION  
REQUEST SWITCH  
10 FOOT 06 INCH (126 INCH+0/-5.9 INCH)  
EXHAUST SYSTEM HEIGHT  
STANDARD CURVE BRIGHT UPPER STACK(S)  
RH CURVED VERTICAL TAILPIPE B-PILLAR  
MOUNTED ROUTED FROM STEP  
6 GALLON DIESEL EXHAUST FLUID TANK  
100 PERCENT DIESEL EXHAUST FLUID FILL  
STANDARD DIESEL EXHAUST FLUID PUMP  
MOUNTING



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#### Description

LH MEDIUM DUTY STANDARD DIESEL EXHAUST  
FLUID TANK LOCATION  
STANDARD DIESEL EXHAUST FLUID TANK CAP  
STAINLESS STEEL AFTERTREATMENT  
DEVICE/MUFFLER/TAILOPIPE SHIELD  
HORTON DRIVEMASTER ADVANTAGE ON/OFF  
FAN DRIVE  
AUTOMATIC FAN CONTROL WITHOUT DASH  
SWITCH, NON ENGINE MOUNTED  
CUMMINS SPIN ON FUEL FILTER  
COMBINATION FULL FLOW/BYPASS OIL FILTER  
1200 SQUARE INCH ALUMINUM RADIATOR  
ANTIFREEZE TO -34F, OAT (NITRITE AND  
SILICATE FREE) EXTENDED LIFE COOLANT  
GATES BLUE STRIPE COOLANT HOSES OR  
EQUIVALENT  
CONSTANT TENSION HOSE CLAMPS FOR  
COOLANT HOSES  
RADIATOR DRAIN VALVE  
PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK  
HEATER  
BLACK PLASTIC ENGINE HEATER RECEPTACLE  
MOUNTED UNDER LH DOOR  
ELECTRIC GRID AIR INTAKE WARMER  
DELCO 12V 38MT HD STARTER WITH  
INTEGRATED MAGNETIC SWITCH

#### Transmission

ALLISON 3000 RDS AUTOMATIC TRANSMISSION  
WITH PTO PROVISION

#### Transmission Equipment

ALLISON VOCATIONAL PACKAGE 223 -  
AVAILABLE ON 3000/4000 PRODUCT FAMILIES  
WITH VOCATIONAL MODELS RDS, HS, MH AND  
TRV  
ALLISON VOCATIONAL RATING FOR ON/OFF  
HIGHWAY APPLICATIONS AVAILABLE WITH ALL  
PRODUCT FAMILIES  
PRIMARY MODE GEARS, LOWEST GEAR 1,  
START GEAR 1, HIGHEST GEAR 6, AVAILABLE  
FOR 3000/4000 PRODUCT FAMILIES ONLY  
SECONDARY MODE GEARS, LOWEST GEAR 1,  
START GEAR 1, HIGHEST GEAR 6, AVAILABLE  
FOR 3000/4000 PRODUCT FAMILIES ONLY





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**Description**

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S5 PERFORMANCE LIMITING PRIMARY SHIFT  
SCHEDULE, AVAILABLE FOR 3000/4000  
PRODUCT FAMILIES ONLY

S5 PERFORMANCE LIMITING SECONDARY  
SHIFT SCHEDULE, AVAILABLE FOR 3000/4000  
PRODUCT FAMILIES ONLY

2200 RPM PRIMARY MODE SHIFT SPEED

2100 RPM SECONDARY MODE SHIFT SPEED

DISABLE - LOAD BASED SHIFT SCHEDULE,  
DISABLE - VEHICLE ACCELERATION CONTROL

DRIVER SWITCH INPUT - DEFAULT - NO  
SWITCHES

VEHICLE INTERFACE WIRING CONNECTOR  
WITHOUT BLUNT CUTS, AT END OF FRAME

ELECTRONIC TRANSMISSION CUSTOMER  
ACCESS CONNECTOR FIREWALL MOUNTED

CUSTOMER INSTALLED MUNCIE CS20/CS24  
SERIES PTO

PTO MOUNTING, LH SIDE OF MAIN  
TRANSMISSION

MAGNETIC PLUGS, ENGINE DRAIN,  
TRANSMISSION DRAIN, AXLE(S) FILL AND  
DRAIN

PUSH BUTTON ELECTRONIC SHIFT CONTROL,  
DASH MOUNTED

TRANSMISSION PROGNOSTICS - ENABLED 2013

WATER TO OIL TRANSMISSION COOLER, IN  
RADIATOR END TANK

TRANSMISSION OIL CHECK AND FILL WITH  
ELECTRONIC OIL LEVEL CHECK

SYNTHETIC TRANSMISSION FLUID (TES-295  
COMPLIANT)

### Front Axle and Equipment

DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74  
DROP SINGLE FRONT AXLE

MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT  
BRAKES, DOUBLE ANCHOR, FABRICATED  
SHOES

NON-ASBESTOS FRONT BRAKE LINING

CONMET CAST IRON FRONT BRAKE DRUMS

FRONT OIL SEALS

VENTED FRONT HUB CAPS WITH WINDOW,  
CENTER AND SIDE PLUGS - OIL



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**Description**

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STANDARD SPINDLE NUTS FOR ALL AXLES  
MERITOR AUTOMATIC FRONT SLACK  
ADJUSTERS  
STANDARD KING PIN BUSHINGS  
TRW TAS-85 POWER STEERING  
POWER STEERING PUMP  
2 QUART SEE THROUGH POWER STEERING  
RESERVOIR  
SYNTHETIC 75W-90 FRONT AXLE LUBE

### Front Suspension

18,000# FLAT LEAF FRONT SUSPENSION  
GRAPHITE BRONZE BUSHINGS WITH SEALS -  
FRONT SUSPENSION  
NO FRONT SUSPENSION SPRING BRACKET  
OPTIONS  
FRONT SHOCK ABSORBERS

### Rear Axle and Equipment

RS-23-160 23,000# R-SERIES SINGLE REAR  
AXLE  
6.14 REAR AXLE RATIO  
IRON REAR AXLE CARRIER WITH STANDARD  
AXLE HOUSING  
MXL 17T MERITOR EXTENDED LUBE MAIN  
DRIVELINE WITH HALF ROUND YOKES  
DRIVER CONTROLLED TRACTION  
DIFFERENTIAL - SINGLE REAR AXLE  
(1) DRIVER CONTROLLED DIFFERENTIAL LOCK  
REAR VALVE FOR SINGLE DRIVE AXLE  
BLINKING LAMP WITH EACH MODE SWITCH,  
DIFFERENTIAL UNLOCK WITH IGNITION OFF,  
ACTIVE <5 MPH  
MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR  
BRAKES, DOUBLE ANCHOR, FABRICATED  
SHOES  
NON-ASBESTOS REAR BRAKE LINING  
BRAKE CAMS AND CHAMBERS ON FORWARD  
SIDE OF DRIVE AXLE(S)  
CONMET CAST IRON REAR BRAKE DRUMS  
REAR OIL SEALS  
WABCO TRISTOP D LONGSTROKE 1-DRIVE  
AXLE SPRING PARKING CHAMBERS



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**Description**

---

MERITOR AUTOMATIC REAR SLACK  
ADJUSTERS  
SYNTHETIC 75W-90 REAR AXLE LUBE  
STANDARD REAR AXLE BREATHER(S)

### Rear Suspension

23,000# 52 INCH VARIABLE RATE MULTI-LEAF  
SPRING REAR SUSPENSION WITH LEAF  
SPRING HELPER  
SPRING SUSPENSION - 1.50" AXLE SPACER  
STANDARD AXLE SEATS IN AXLE CLAMP  
GROUP  
REAR SHOCK ABSORBERS - ONE AXLE

### Brake System

WABCO 4S/4M ABS WITHOUT TRACTION  
CONTROL  
REINFORCED NYLON, FABRIC BRAID AND WIRE  
BRAID CHASSIS AIR LINES  
FIBER BRAID PARKING BRAKE HOSE  
STANDARD BRAKE SYSTEM VALVES  
STANDARD AIR SYSTEM PRESSURE  
PROTECTION SYSTEM  
STD U.S. FRONT BRAKE VALVE  
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE,  
NO REAR PROPORTIONING VALVE  
WABCO SS-1200 PLUS AIR DRYER WITH  
INTEGRAL AIR GOVERNOR AND HEATER  
AIR DRYER MOUNTED INBOARD ON LH RAIL  
STEEL AIR TANKS MOUNTED BELOW FRAME  
RAILS  
CLEAR FRAME RAILS FROM TRANSMISSION  
PTO OPENING TO 36 INCHES BACK OF CAB  
OUTBOARD/INSIDE/BELOW BOTH RAILS  
PULL CABLE ON WET TANK, PETCOCK DRAIN  
VALVES ON ALL OTHER AIR TANKS

### Trailer Connections

AIR CONNECTIONS TO END OF FRAME WITH  
GLAD HANDS FOR TRUCK AND NO DUST  
COVERS  
PRIMARY CONNECTOR/RECEPTACLE WIRED  
FOR SEPARATE STOP/TURN, ABS CENTER PIN  
POWERED THROUGH IGNITION

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#### Description

SAE J560 7-WAY PRIMARY TRAILER CABLE  
RECEPTACLE MOUNTED END OF FRAME  
UPGRADED CHASSIS MULTIPLEXING UNIT

#### Wheelbase & Frame

4425MM (174 INCH) WHEELBASE  
7/16X3-9/16X11-1/8 INCH STEEL FRAME  
(11.11MMX282.6MM/0.437X11.13 INCH) 120KSI  
BODY COMPANY INSTALLED ADDITIONAL  
FRONT FRAME REINFORCEMENT FOR SNOW  
PLOW  
1750MM (69 INCH) REAR FRAME OVERHANG  
FRAME OVERHANG RANGE: 61 INCH TO 70  
INCH  
24 INCH INTEGRAL FRONT FRAME EXTENSION  
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) :  
108.45 in  
CALCULATED EFFECTIVE BACK OF CAB TO  
REAR SUSPENSION C/L (CA) : 105.45 in  
CALC'D FRAME LENGTH - OVERALL : 308.16  
CALC'D SPACE AVAILABLE FOR DECKPLATE :  
108.45 in  
CALCULATED FRAME SPACE LH SIDE : 84.46 in  
CALCULATED FRAME SPACE RH SIDE : 124.85  
in  
SQUARE END OF FRAME  
FRONT CLOSING CROSSMEMBER  
LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE  
CROSSMEMBER  
STANDARD MIDSHIP #1 CROSSMEMBER(S)  
STANDARD REARMOST CROSSMEMBER  
STANDARD SUSPENSION CROSSMEMBER

#### Chassis Equipment

14 INCH PAINTED STEEL BUMPER  
BUMPER MOUNTING FOR SINGLE LICENSE  
PLATE  
GRADE 8 THREADED HEX HEADED FRAME  
FASTENERS

#### Fuel Tanks

70 GALLON/264 LITER ALUMINUM FUEL TANK -  
LH



**Prepared for:**  
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25 East State St  
North Aurora, IL 60542  
Phone:

**Prepared by:**  
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GROUP  
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Description
25 INCH DIAMETER FUEL TANK(S) PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH POLISHED STAINLESS STEEL BANDS FUEL TANK(S) FORWARD PLAIN STEP FINISH FUEL TANK CAP(S) DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR, HAND PRIMER AND 12 VOLT PREHEATER" EQUIFLO INBOARD FUEL SYSTEM HIGH TEMPERATURE REINFORCED NYLON FUEL LINE
<b>Tires</b>
MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES MICHELIN X MULTI D 11R22.5 14 PLY RADIAL REAR TIRES
<b>Hubs</b>
CONMET PRESET PLUS PREMIUM IRON FRONT HUBS CONMET PRESET PLUS PREMIUM IRON REAR HUBS
<b>Wheels</b>
ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS WHEEL STUDS FOR CUSTOMER INSTALLED HUB PILOTED DUALED ALUMINUM WHEELS, ALL
<b>Cab Exterior</b>
108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB AIR CAB MOUNTING CAB ROOF REINFORCEMENTS FOR ROOF MOUNTED COMPONENTS NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE SHORT FENDER WITH MUDFLAP

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**Description**

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BOLT-ON MOLDED FLEXIBLE FENDER  
EXTENSIONS  
LH AND RH GRAB HANDLES  
BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL  
STATIONARY BLACK GRILLE WITH BRIGHT  
ACCENTS  
CHROME HOOD MOUNTED AIR INTAKE GRILLE  
FIBERGLASS HOOD WITH ACCESS HATCHES  
SINGLE 14 INCH ROUND HADLEY AIR HORN  
UNDER LH DECK  
SINGLE ELECTRIC HORN  
SINGLE HORN SHIELD  
DOOR LOCKS AND IGNITION SWITCH KEYED  
THE SAME WITH (4) KEYS  
REAR LICENSE PLATE MOUNT END OF FRAME  
HALOGEN COMPOSITE HEADLAMPS WITH  
BRIGHT BEZELS  
LED AERODYNAMIC MARKER LIGHTS  
DAYTIME RUNNING LIGHTS - LOW BEAM ONLY  
INTEGRAL STOP/TAIL/BACKUP LIGHTS  
STANDARD FRONT TURN SIGNAL LAMPS  
DUAL WEST COAST BRIGHT FINISH HEATED  
MIRRORS WITH LH AND RH REMOTE  
DOOR MOUNTED MIRRORS  
102 INCH EQUIPMENT WIDTH  
LH AND RH 8 INCH BRIGHT FINISH CONVEX  
MIRRORS MOUNTED UNDER PRIMARY  
MIRRORS  
STANDARD SIDE/REAR REFLECTORS  
RH AFTERTREATMENT SYSTEM CAB ACCESS  
WITH POLISHED DIAMOND PLATE COVER  
2-STAGE ELECTRIC HORN AND HAZARD LAMP  
ALERT CONTROLLED BY PARTICULATE FILTER  
REGENERATION REQUIRED STATUS  
63X14 INCH TINTED REAR WINDOW  
TINTED DOOR GLASS LH AND RH WITH TINTED  
OPERATING WING WINDOWS  
RH AND LH ELECTRIC POWERED WINDOWS,  
PASSENGER SWITCHES ON DOOR(S)  
LOWER RH DOOR WINDOW WITH FRESNEL  
LENS



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**Description**

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1-PIECE TINTED CURVED BONDED WINDSHIELD  
WITH HEATED WIPER BLADE PARK AREAS  
8 LITER WINDSHIELD WASHER RESERVOIR,  
CAB MOUNTED, WITHOUT FLUID LEVEL  
INDICATOR

**Cab Interior**

OPAL GRAY VINYL INTERIOR  
MOLDED PLASTIC DOOR PANEL WITHOUT  
VINYL INSERT WITH ALUMINUM KICKPLATE  
LOWER DOOR  
MOLDED PLASTIC DOOR PANEL WITHOUT  
VINYL INSERT WITH ALUMINUM KICKPLATE  
LOWER DOOR  
BLACK MATS WITH SINGLE INSULATION  
NO FORWARD ROOF MOUNTED CONSOLE  
IN DASH STORAGE BIN  
(2) CUP HOLDERS LH AND RH DASH  
GRAY/CHARCOAL FLAT DASH  
SMART SWITCH EXPANSION MODULE  
HEATER, DEFROSTER AND AIR CONDITIONER  
STANDARD HVAC DUCTING WITH SNOW  
SHIELD FOR FRESH AIR INTAKE  
MAIN HVAC CONTROLS WITH RECIRCULATION  
SWITCH  
STANDARD HEATER PLUMBING WITH BALL  
SHUTOFF VALVES  
DENSO HEAVY DUTY AIR CONDITIONER  
COMPRESSOR  
BINARY CONTROL, R-134A  
PREMIUM INSULATION  
SOLID-STATE CIRCUIT PROTECTION AND  
FUSES  
12V NEGATIVE GROUND ELECTRICAL SYSTEM  
DOME DOOR ACTIVATED LH AND RH, DUAL  
READING LIGHTS, FORWARD CAB ROOF  
LH AND RH ELECTRIC DOOR LOCKS  
(2) 12 VOLT POWER RECEPTACLES MOUNTED  
IN DASH



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#### Description

ELITE HIGH BACK AIR SUSPENSION DRIVER SEAT WITH HEAT, 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT AND ADJUSTABLE SHOCK

ELITE HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH HEAT, 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT AND ADJUSTABLE SHOCK

DUAL DRIVER AND PASSENGER SEAT ARMRESTS

LH AND RH INTEGRAL DOOR PANEL ARMRESTS

BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER

BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER

HIGH VISIBILITY ORANGE SEAT BELTS

ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN

4-SPOKE 18 INCH (450MM) STEERING WHEEL

DRIVER AND PASSENGER INTERIOR SUN VISORS

#### Instruments & Controls

GRAY DRIVER INSTRUMENT PANEL

GRAY CENTER INSTRUMENT PANEL

BLACK GAUGE BEZELS

LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM

2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES

DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS

97 DB BACKUP ALARM

ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL

KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY

ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED

HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH





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**Description**

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2 INCH ELECTRIC FUEL GAUGE  
MPG FUEL TRIP GAUGE, TOTAL AND RATE  
PROGRAMMABLE RPM CONTROL -  
ELECTRONIC ENGINE  
ELECTRICAL ENGINE COOLANT TEMPERATURE  
GAUGE  
2 INCH TRANSMISSION OIL TEMPERATURE  
GAUGE  
ENGINE AND TRIP HOUR METERS INTEGRAL  
WITHIN DRIVER DISPLAY  
CUSTOMER FURNISHED AND INSTALLED PTO  
CONTROLS  
ELECTRIC ENGINE OIL PRESSURE GAUGE  
OVERHEAD INSTRUMENT PANEL  
AM/FM/WB WORLD TUNER RADIO WITH  
BLUETOOTH AND USB AND AUXILIARY INPUTS,  
J1939  
DASH MOUNTED RADIO  
(2) RADIO SPEAKERS IN CAB  
AM/FM ANTENNA MOUNTED ON FORWARD LH  
ROOF  
POWER AND GROUND WIRING PROVISION  
OVERHEAD  
CB WIRING ONLY TO ROOF/OVERHEAD  
CONSOLE; NO MOUNTING PROVISION  
ELECTRONIC MPH SPEEDOMETER WITH  
SECONDARY KPH SCALE, WITHOUT  
ODOMETER  
STANDARD VEHICLE SPEED SENSOR  
ELECTRONIC 3000 RPM TACHOMETER  
NO DETROIT CONNECT SERVICES SELECTED  
NO ZONAR SERVICES SELECTED  
IGNITION SWITCH CONTROLLED ENGINE STOP  
(6) IGN CONTROLLED EXTRA SWITCHES WITH  
IND LIGHTS WIRED TO POWER DIST BOX WITH  
RELAYS PROVIDING 20 AMPS PER CIRCUIT TO  
JUNCTION BLOCK AND 1 CIRCUIT AT 30 AMPS  
PRE-TRIP LAMP INSPECTION, ALL OUTPUTS  
FLASH, WITH SMART SWITCH  
BW TRACTOR PROTECTION VALVE  
TRAILER HAND CONTROL BRAKE VALVE



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#### Description

DIGITAL VOLTAGE DISPLAY INTEGRAL WITH  
DRIVER DISPLAY

SINGLE ELECTRIC WINDSHIELD WIPER MOTOR  
WITH DELAY PROGRAMMED TO SLOWEST  
SPEED WITH PARK BRAKE SET

MARKER LIGHT SWITCH INTEGRAL WITH  
HEADLIGHT SWITCH AND SINGLE CONNECTOR  
AND SWITCH FOR CUSTOMER FURNISHED  
SNOW PLOW LIGHTS, LOW BEAMS OFF WITH  
HIGH BEAMS

TWO VALVE PARKING BRAKE SYSTEM WITH  
DASH VALVE CONTROL AUTONEUTRAL AND  
WARNING INDICATOR

SELF CANCELING TURN SIGNAL SWITCH WITH  
DIMMER, WASHER/WIPER AND HAZARD IN  
HANDLE

INTEGRAL ELECTRONIC TURN SIGNAL  
FLASHER WITH HAZARD LAMPS OVERRIDING  
STOP LAMPS

#### Design

PAINT: ONE SOLID COLOR

#### Color

CAB COLOR A: L2065EB SCHOOL BUS YELLOW  
ELITE BC

BLACK, HIGH SOLIDS POLYURETHANE CHASSIS  
PAINT

NO FUEL TANK CABINET PAINT

POWDER WHITE (N0006EA) FRONT  
WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

POWDER WHITE (N0006EA) REAR  
WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

STANDARD BLACK BUMPER PAINT

STANDARD E COAT/UNDERCOATING

#### Certification / Compliance

U.S. FMVSS CERTIFICATION, EXCEPT SALES  
CABS AND GLIDER KITS

#### Secondary Factory Options

CORPORATE PDI CENTER IN-SERVICE ONLY



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### Extended Warranty

TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING  
COVERAGE \$550 CAP FEX APPLIES

### Dealer Installed Options

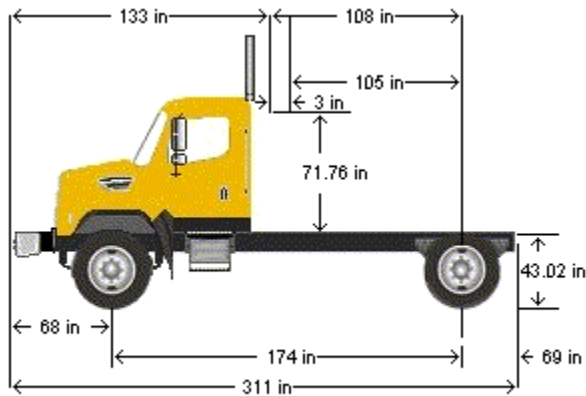
	Weight Front	Weight Rear
SNOW AND ICE EQUIPMENT QUOTE 4BD0001676-1 DATED 7-31-17	0	0
Total Dealer Installed Options	0 lbs	0 lbs



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## D I M E N S I O N S



### VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Wheelbase (545) .....	4425MM (174 INCH) WHEELBASE
Rear Frame Overhang (552) .....	1750MM (69 INCH) REAR FRAME OVERHANG
Fifth Wheel (578) .....	NO FIFTH WHEEL
Mounting Location (577) .....	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in) .....	0
Maximum Rearward Position (in) .....	0
Amount of Slide Travel (in) .....	0
Slide Increment (in) .....	0
Desired Slide Position (in) .....	0.0
Cab Size (829) .....	108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682) .....	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016) .....	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

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## TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	133.3
Bumper to Centerline of Front Axle (BA)	67.7
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	108.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	105.4
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	177.4
Cab Height (CH)	71.8
Wheelbase (WB)	174.0
Frame Overhang (OH)	69.0
Overall Length (OAL)	310.7
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	43.0

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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## GVWR

### VEHICLE SPECIFICATIONS SUMMARY - GVWR

Cab Size (829)..... 108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
Expected Front Axle(s) Load (lbs)..... 18000.0  
Expected Pusher Axle(s) Load (lbs)..... 0.0  
Expected Rear Axle(s) Load (lbs)..... 23000.0  
Expected Tag Axle(s) Load (lbs)..... 0.0  
Expected GVW (lbs)..... 41000  
Expected GCW (lbs)..... 50000.0  
Front Axle (400)..... DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE  
Front Suspension (620)..... 18,000# FLAT LEAF FRONT SUSPENSION  
Front Hubs (418)..... CONMET PRESET PLUS PREMIUM IRON FRONT HUBS  
Front Disc Wheels (502)..... ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS  
Front Tires (093)..... MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES  
Front Brakes (402)..... MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES  
Steering Gear (536)..... TRW TAS-85 POWER STEERING  
Rear Axle (420)..... RS-23-160 23,000# R-SERIES SINGLE REAR AXLE  
Rear Suspension (622)..... 23,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING REAR SUSPENSION WITH LEAF SPRING  
HELPER  
Rear Hubs (450)..... CONMET PRESET PLUS PREMIUM IRON REAR HUBS  
Rear Disc Wheels (505)..... MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS  
Rear Tires (094)..... MICHELIN X MULTI D 11R22.5 14 PLY RADIAL REAR TIRES  
Rear Brakes (423)..... MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES  
Pusher / Tag Axle (443)..... NO PUSHER OR TAG AXLE  
Pusher / Tag Suspension (626)..... NO PUSHER OR TAG SUSPENSION  
Pusher / Tag Hubs (449)..... NO PUSHER OR TAG HUBS  
Pusher/Tag Disc Wheels (509)..... NO PUSHER/TAG DISC WHEELS  
Pusher / Tag Tires (095)..... NO PUSHER/TAG TIRES  
Pusher / Tag Brakes (456)..... NO PUSHER/TAG BRAKES



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## TABLE SUMMARY - GVWR

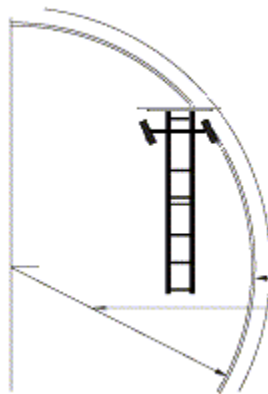
	Front	Rear
<b>Axle Component Weight Ratings</b>		
Axles	18000	23000
Suspension	18000	23000
Hubs	23000	26000
Brakes	20000	23000
Wheels	20000	29600
Tires	18180	23360
Power Steering	18000	N/A
GAWR (per axle)	18000	23000
GAWR (per axle system)	18000	23000
Expected Load (per axle system)	18000	23000
<b>Vehicle GVWR Summary</b>		
Calculated GVWR	41000	
Expected GVWR	41000	
All weights displayed in pounds		

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## TURNING RADIUS



Turning radius graphic and data provided for general estimate purposes only. For specific figures regarding your configuration, please contact your CAE representative.

	Left Turn	Right Turn	Tolerance
Wall to Wall Diameter (ft)	59.5	61.6	+/- 3.0
Curb to Curb Diameter (ft)	52.2	54.5	+/- 3.0
Turning Radius (ft)	25.6	26.8	+/- 1.5

### VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Cab Size (829)..... 108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
Wheelbase (545) .....4425MM (174 INCH) WHEELBASE  
Front Tires (093) .....MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES  
    Width (in) ..... 12.5  
Front Axle (400)..... DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE  
    Kingpin Intersection (in) .....71  
Bumper (556) ..... 14 INCH PAINTED STEEL BUMPER  
    Width (in) .....97.6  
    Bumper Miter to Front Axle (in) .....72.423  
Primary Steering Location (003) ..... LH PRIMARY STEERING LOCATION  
Steering Gear (536) ..... TRW TAS-85 POWER STEERING  
    Dual Steering Gear .....NONE  
    Ram.....NONE  
Rear Axle (420) ..... RS-23-160 23,000# R-SERIES SINGLE REAR AXLE  
Axle Spacing (624) .....NO AXLE SPACING

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## Q U O T A T I O N

### 108SD CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK	18,000# FLAT LEAF FRONT SUSPENSION
CUM L9 350 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM	108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	4425MM (174 INCH) WHEELBASE
RS-23-160 23,000# R-SERIES SINGLE REAR AXLE	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI
23,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING REAR SUSPENSION WITH LEAF SPRING HELPER	1750MM (69 INCH) REAR FRAME OVERHANG
DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW

#### PER UNIT

VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	84,978
SNOW AND ICE EQUIPMENT		\$	70,128
<hr/>			
BALANCE DUE	(LOCAL CURRENCY)	\$	155,106

Includes Title and Muni Plates.

Does not include any extended Engine, After-treatment System, Transmission, or Chassis Extended Warranties.



# Memorandum



To: Dale Berman, Village President & Board of Trustees  
Cc: Steven Bosco, Village Administrator  
From: John Laskowski, Public Works Director  
Date: September 5, 2017  
Re: Agreement with MDS for Pavement Condition Evaluation

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A pavement condition evaluation is a study that assesses the condition of each road in the road network. It assigns each road a pavement condition index score between 0-100 based upon the pavement distresses. This information can be integrated in the Village's GIS system to visually overlay the information onto a road network map. Computer software manipulates this data to identify the optimal time to schedule maintenance. The software is also used to develop a future maintenance plan which provides an understanding of the financial resources necessary to budget for future road maintenance.

There are different methodologies used to collect data. In the past engineers would drive the pavement network and visually assess the pavement distresses. This method was functional but it was limited by the experience of the engineers and had the potential to produce variable results based on the subjective opinion of each engineer.

Technology has advanced to the point where consultants use high resolution imaging and lasers to evaluate the pavement condition and evaluate pavement distresses on the surface. This eliminates the errors associated with subjectivity. In addition some companies are capable of assessing the condition of the base of the roadway as well.

Staff reviewed pavement evaluation proposals from three firms: Infrastructure Management Services (IMS), MDS Technologies, and Stantec. Each company uses slightly different technology to assess the pavement conditions and each uses a different software to analyze the data collected.

Two of the companies have included the option to evaluate the base of the road. This test is recommended if the composition of the construction is unknown or on a case by case basis if a road is being reconstructed and additional information is needed as part of a future design. There are limitations to the base test because the location of the test will define the street as a whole. If the test is performed on a section of pavement not representative of the street, the resulting data can be misleading.

Since the North Aurora has done a good job of maintaining its road network over the years and the base test would not provide a significant amount of additional data by which to make decisions. Therefore the staff recommendation is to evaluate the surface of each street and rely on the data compiled by our consulting engineer over the years to determine the composition of the base of each street.

One difference between each of the firms' proposals is the software each proposes to use to evaluate the data. The software proposed by IMS is PavePro, Stantec proposes using RoadMatrix, and MDS proposes using MicroPaver. In each case the software has the ability to provide budget scenarios that analyze the cost of implementing road projects over a period of time. Some firms utilize proprietary software and other use software developed on the market.

The cost proposals prepared by each of the firms was comparable. IMS provided a cost proposal of \$25,789 for surface testing and software implementation. Stantec provided a cost of \$39,600 which included base testing, however without base testing this proposal would likely be closer to \$29,600 for software and surface testing. MDS provided a cost proposal of \$20,950.00 plus approximately \$2,000 for the software for a total cost for testing and software of \$22,950.

In order to better compare the firms I relied on my own experience with the companies as well as input from consulting engineers in my professional network that have had experience with pavement condition evaluation.

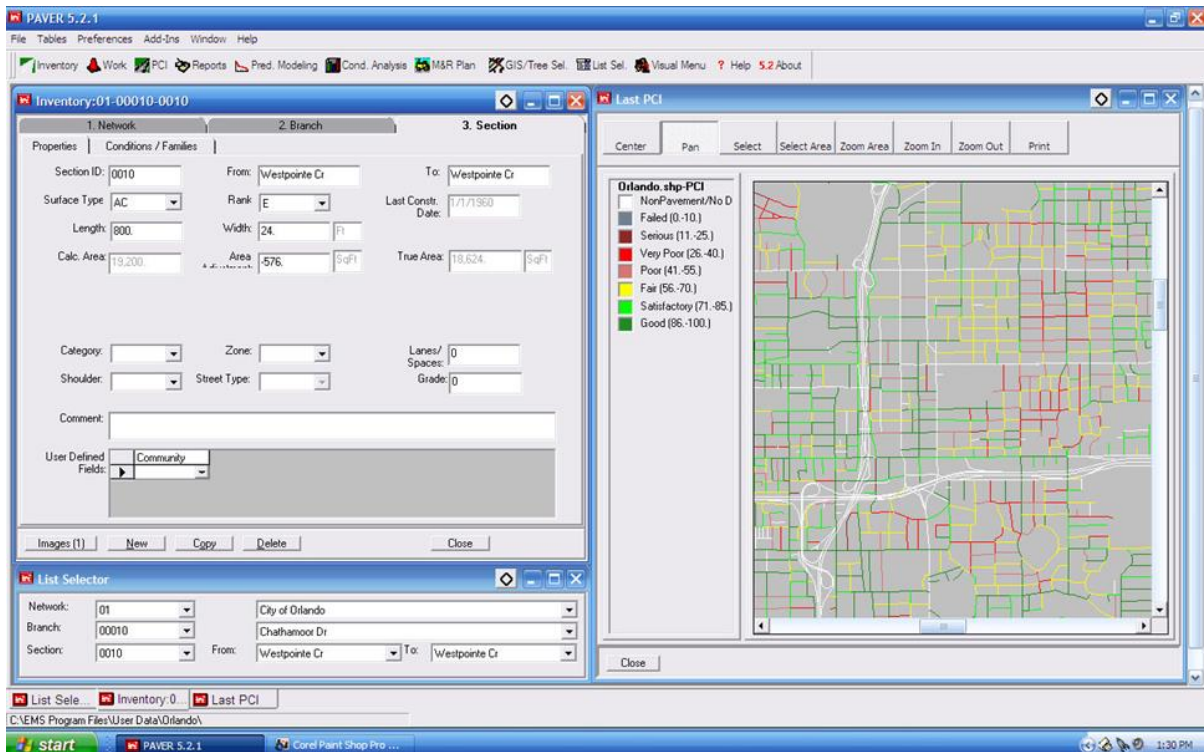
The total cost budget for this project in fiscal year 2017-18 is \$25,000 from account number 21.450.4255 from the Capital Projects Fund. Based on the information provided by the consulting engineers, the references checked, price proposal and my own experience I am recommending using MDS. This cost would be \$22,950 which is \$2,050.00 under budget.

# MDS Technologies, Inc.

## Proposal to Provide Pavement Condition Assessment and Related Services

Prepared for:

## Village of North Aurora





August 21, 2017

Village of North Aurora  
314 Butterfield Rd  
North Aurora, IL 60542

Attention: Mr. John Laskowski  
Public Works Director

**Re: Proposal to Provide Pavement Condition Assessment and Related Services**

Dear Sir:

MDS Technologies, Inc. is pleased to submit this proposal to provide the above referenced services to the Village of North Aurora. We are uniquely qualified to provide these services to the Village for these reasons:

- We have expert knowledge and many years of experience implementing pavement management systems for municipalities and counties throughout the country;
- We have the vehicle based technology needed to assess the condition of the Village's road network quickly, accurately, and cost-effectively;
- We have a thorough understanding of the pavement management modeling process and we are skilled in configuring systems to reflect the pavement rehabilitation policies and practices of our clients;
- We are very adept at integrating pavement management systems with GIS;
- We have a reputation for providing high quality services delivered according to schedule for a very competitive fee.

If any questions arise regarding our submission, please contact me for clarification at any time. We look forward to working with Village staff on this project.

Sincerely,

**MDS Technologies, Inc.**

*Trevor Triffo*

Trevor T. Triffo  
Principal

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# **1 Introduction**

MDST specializes in implementing pavement and right of way asset management systems for the public works departments of municipal and county governments. MDST staff has successfully implemented upward of one hundred pavement management systems for clients throughout the United States and Canada.

We use vehicle-based technology to evaluate the condition of entire road networks quickly, accurately and systematically. MDST provides services to implement pavement management software developed by third parties.

MDST was incorporated in 2002 as a 'C' Corporation in the State of Illinois. MDST is located in the metropolitan Chicago area and will provide services to the Village from this location. Our office address is:

MDS Technologies, Inc.  
350 S. Northwest Highway  
Suite 300  
Park Ridge, IL 60068

The person responsible for this project is Trevor Triffo, Principal. He can be contacted by e-mail at [ttriffo@mdstechnologies.com](mailto:ttriffo@mdstechnologies.com) or by telephone at 847.238.2402. We have provided our services to clients in a number of regions, including the States of Illinois, Indiana, Minnesota, Utah, Idaho, Washington, Colorado, Wyoming, Kansas, New Hampshire, South Carolina, Georgia, Florida, Hawaii, and Alaska.

## **1.1 Business Philosophy**

MDST's mission is to be recognized by clients and industry peers as a top provider of pavement management data collection and pavement management system implementation services. To achieve this objective, the company feels that it must excel in several key areas:

- When planning our approach to a project, first and foremost we must consider the needs of our client and devise an approach to meet those needs;
- The company must execute work effectively and provide quality services on time and on budget;
- The company must keep abreast of emerging technologies and incorporate them into our practice when appropriate.

Our goal is to provide high value services that exceed the expectations of our clients on every project that the company undertakes. In any given year, at least 75% of our work is repeat business with existing clients.

## **1.2 Pavement Management Expertise**

MDST possesses considerable experience and expertise regarding implementation of pavement management systems. This experience and expertise is highlighted below.

*Pavement Condition Evaluation* – MDST staff have also evaluated pavement condition for tens of thousands of miles of pavements nationwide. The severity and extent of distresses occurring on a wide variety of pavement types have been evaluated using a number of techniques including manual surveys, windshield surveys, key board surveys, and condition assessment from digital imagery.

*Development of Engineering Models for Pavement Management* – A key part of implementing a pavement management system is modeling the behavior of the agency's roads and decision process with regard to selection and prioritization of rehabilitation projects. Although there are often similarities between agencies, every agency is unique in some way and this should be reflected in the models developed for the pavement management system. This modeling component requires a thorough understanding of the detailed workings of pavement management software and engineering judgment that is developed through experience. MDST staff has developed this expertise and judgment through twenty years of experience performing this task for county and municipal governments throughout the United States.

*Pavement Management System User Training* – MDST staff has provided system administrator and user training as part of implementing pavement management systems. Training is tailored to meet the needs and experience level of the agency and can range from navigating the user interface, viewing data, and creating standard reports to modifying engineering models, performing complex analysis, creating custom reports, adding new fields, and creating new functionality.

*Pavement Management System Linkage/Integration to GIS* – Many of the systems implemented by MDST staff have been linked to GIS. In some cases, this has been done on a fixed segment basis, and in other cases routes have been created to take advantage of dynamic segmentation functionality in GIS.

*Integration of Inertial Navigation and Digital Imagery Technology* – MDST staff were early pioneers to integrate inertial navigation and geo-referenced digital imaging technology into pavement oriented data collection vehicles. This was done to provide accurate position and orientation data in the event of a GPS outage, provide roadway geometrics data such as radius of curvature and cross fall, and to provide a method of capturing spatially accurate right-of-way asset inventories.

*Development of Automated Crack Detection Technology* – MDST staff have been involved in efforts to automate crack detection through pixel analysis of high resolution pavement imagery.

*Pavement Management Software Development* – MDST staff has been responsible for the ongoing maintenance and development of pavement management software that was used by municipal and county governments throughout the country. This includes prioritizing and performing bug fixes, and planning, designing, developing and distributing systems enhancements.



## **2 Scope of Services**

The Village of North Aurora (subsequently referred to as the Village) wants to assess the condition of Village-owned streets in a consistent and scientific manner. The Village owns approximately 77 centerline miles of streets. A multi-year pavement rehabilitation program is to be created based on the expected budget. Also, budget analysis is to be performed to estimate the impact that various budget streams could have on the condition of the Village's road network. Data from the pavement management system needs to be associated with a GIS pavement centerline file so that it can be displayed on maps created by Village staff.

MDS Technologies, Inc. (subsequently referred to as MDST) has created a task-driven Work Plan to meet the needs of the Village in an expeditious and cost-effective manner. The main Tasks in the Work Plan are as follows:

- Task 1: Project Initiation
- Task 2: Build MicroPAVER Database
- Task 3: Field Work
- Task 4: Pavement Condition Evaluation
- Task 5: Rehabilitation Program and Budget Analysis
- Task 6: Project Report and Spreadsheet
- Task 7: GIS Centerline File

Each of these Tasks is discussed in detail below.

### ***Task 1: Project Initiation***

A meeting will be held between MDST's Project Manager and Village staff at the Village's office to initiate the project. This meeting will be used to review/confirm the project goals, scope, schedule, establish communication protocols, and discuss the pertinent technical and administrative details of the project.

Prior to this meeting, MDST acquire the necessary information to prepare for street evaluation activities. The roads to be included in the project need to be identified. Based on discussions with Village staff, we expect the main source of this information to be a GIS pavement centerline file that the Village has obtained from Kane County.

MDST's Project Manager will review this map with Village staff to ensure that it identifies all the streets to be evaluated. Any streets that are maintained by other agencies (e.g. State, County, or private roads) will be identified and excluded from the evaluation as desired by Village staff.

### ***Task 2: Build MicroPAVER Database***

After discussions with Village staff, MDST has determined that using the MicroPAVER program is in the best interests of the Village. This application, originally developed by the US Army Corps of Engineers and now maintained by the APWA, is now used by over 650 agencies across the United States. It can be obtained from APWA at some point in the future at a very low cost if

desired by the Village. The Pavement Condition Index (PCI) method of evaluating and quantifying pavement condition used in MicroPAVER is an ASTM standard (D6433-11).

MDST will divide the Village's road network into a series of discreet segments for condition evaluation purposes. Each segment will be homogeneous in terms of geometrics, pavement type, construction history, functional classification/traffic volume, and condition. Often, residential roads are segmented on a block-to-block basis as the condition of these roads can change frequently. Arterial and collector roads are often segmented into longer pieces that run from major intersection to major intersection. The segmenting approach to be used will be discussed with Village staff at the project initiation meeting.

Each segment must have certain attributes assigned in order for MicroPAVER to work as intended. The Street Name and From/To descriptors will be acquired from the GIS pavement centerline file. Segment length and width are required to calculate the paved area of a segment which is in turn required for PCI calculations and to estimate rehabilitation costs. Segment length can be determined from the GIS pavement linework. Paved width can be determined from GIS ortho-imagery. If the Village cannot supply ortho-imagery, MDST can access this through other sources. Paved width can also be estimated from the street level imagery we will collect as part of this project.

### ***Task 3: Field Work***

MDST will use our vehicle based technology/approach to collect pavement condition data on all 77 centerline miles of Village maintained roads. The approach used by MDST is specifically designed to provide consistent and accurate results in accordance with ASTM D6433-11.

MDST proposes to utilize vehicle-based technology to capture the required pavement condition data quickly, safely, and cost-effectively. The main components of the system are high resolution digital cameras, GPS receivers and related technology, and on-board computers. A software application manages and coordinates the flow of digital imagery from the cameras and ties each frame to position and orientation data obtained from the GPS receiver.

The digital cameras are precisely located and mounted to the roof of the data collection vehicle. Two cameras are required for pavement condition evaluation. A forward-looking camera captures a pavement-oriented view of the streetscape. A downward-looking camera is used to capture detailed imagery of the pavement surface. A third camera can be angled forward and to the right to capture imagery of assets such as traffic signs, sidewalks, storm drains, etc.

MDST uses digital cameras that are capable of outputting images up to 4 Megapixels in size at rates up to 72 frames per second. Each frame is written to on-board, high-capacity hard disk drives in AVI or JPG format. Images are typically captured at approximately 10 foot intervals to ensure complete coverage of the pavement surface.

The location of the cameras is determined by GPS. Each frame/digital image is tied to position and orientation data so that it can be used to position objects visible in the imagery and mapped in GIS.

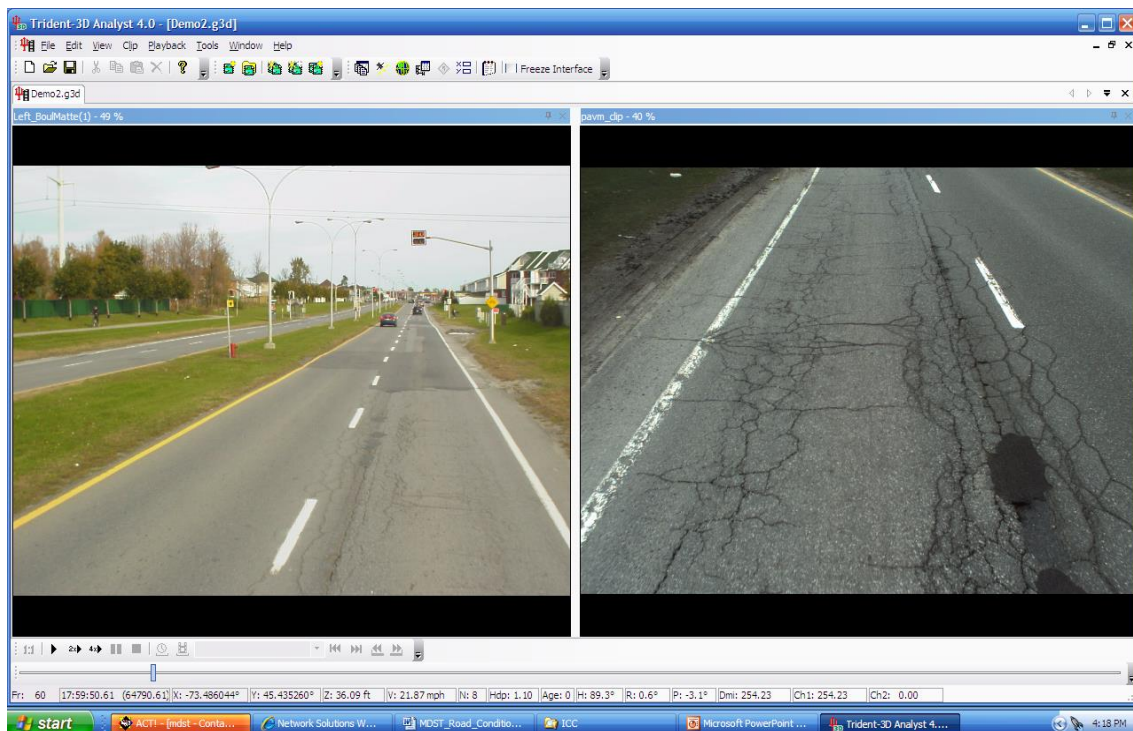
Camera views can be displayed inside the vehicle and are constantly monitored by MDST field crews to confirm that high quality imagery is being captured at all times.

### ***Task 4: Pavement Condition Evaluation***

Pavement condition will be assessed through analysis of the sequential digital imagery captured with the data collection vehicle. This is an office based task, no pavement evaluation takes place when the vehicle is traveling at speed during field work. Both the forward-looking streetscape view and the downward-looking detailed pavement view will be used to assess the severity and extent of up to 20 distresses for asphaltic concrete (AC) and 19 distresses for Portland Cement Concrete (PCC) surfaces.

A sample image pair is shown below. Because each frame is tied to positioning data acquired from GPS, the location of each image pair can be easily tied to a road segment.

The severity of a distress is related to the width of cracking for cracking-type distresses and the degree of deviation from the plane of the original surface for distortion-type distresses. For asphalt surfaced pavements, the extent of distress is determined by area (e.g. alligator cracking), length (e.g. longitudinal cracking), or occurrence (e.g. potholes) depending on the type of distress encountered. For PCC surfaced pavements, extent is determined based on the number of slabs affected by a distress.



MDST builds quality control into all our processes to ensure delivery of a high quality and consistent product. We always re-evaluate a portion of the roads in each project we perform. In our process, re-evaluation is done as the project is performed, and differences in PCI scores greater than five points are reviewed in detail and any adjustments as to how distresses are quantified are made at that time. If a systematic error is uncovered related to correctly identifying distress types (accuracy) in or identifying severity levels (resolution), then any previously evaluated segments are re-evaluated to correct the problem.

To minimize data input errors, MDST also performs certain integrity and logic checks on the input data to identify missing or erroneous data. For example, if the extent of a particular distress is quantified on an area basis, then the sum of all the areas in a segment containing this distress cannot be greater than the total area of the segment. The data set must be reviewed and revised until every record passes this and other logic tests. After all quality tests are passed, the data set is considered ready to be loaded into the pavement management database to calculate PCI scores for each segment.

### ***Task 5: Rehabilitation Programming and Budget Analysis***

MDST will use functionality in MicroPAVER to create a multi-year pavement rehabilitation program and assess the impact that various budget scenarios would have on the overall road condition of the road network. This requires pavement deterioration models to be created that reflect the behavior of Village pavements. In the absence of historical construction data to develop these models, we propose to utilize models we have already developed for other nearby municipalities. We can also tap into the knowledge of Village staff to validate the models.

The pavement rehabilitation strategies used by the Village (and their associated unit costs) will be input into the system. MDST will then configure MicroPAVER so that the results of the analysis reflect the Village's pavement rehabilitation policies and practices. A ten-year rehabilitation program will be created for the expected annual budget over this time period. Budget analysis will be performed to determine the effect that implementation of this program would have on the overall condition of the road network. The effect of several other budget scenarios can also be determined - typically we analyze up to six (6) different budgets to determine their impact on the condition of the road network.

### ***Task 6: Project Report and Spreadsheet***

MDST will create a project report after the above Tasks have been completed. The report will describe the work performed and the present the major findings of the project. The report will include computer reports showing the PCI score for each segment and the rehabilitation program created through the use of MicroPAVER. The data will be summarized in a series of charts and graphs to assist the reader in understanding the results of the study.

The report will be provided in electronic format. Hard copies of the report can be provided at additional cost.

A sample report created for another client is provided with this proposal. The report we create for the Village may differ somewhat in content (depending on the Village's needs), but it is a good representation of what is typically provided.

In addition, MDST will provide the PCI data in an Excel spreadsheet or other mutually agreeable format. Each street segment will be defined by a street name and from/to end point descriptors. Other information such as segment length, width, area, and pavement type will also be provided. The data will be supplied with a unique identifier that will allow the data to be sorted by street name so that the segments are listed in sequential order.

MDST will also provide a backup of the MicroPAVER database. Then, if the Village decides to obtain the MicroPAVER software from APWA at some point in the future, the backup can be restored and Village staff will have full access to the data contained therein.

### ***Task 7: GIS Pavement Centerline File***

A GIS pavement centerline file will be provided to the Village that contains the segment and PCI data described above. The individual line segments in the GIS pavement centerline file will be split and/or combined as needed so that the pavement management segments have a matching line segment in GIS. This data will be projected into the coordinate system used by the Village so that the data will properly integrate/overlay with other GIS data that Village may own/access. The file will be provided with pre-set symbology so that the PCI data can be displayed in color-coded ranges.

### 3 Key Personnel

Each member of MDST's project team will be assigned to a specific role. A team of trained pavement analysts will be dedicated to pavement evaluation. MDST's Project Manager will lead this team and personally perform quality control checks to ensure that an accurate, consistent, and complete product is created for the Village.

#### 3.1 Project Manager

**Mr. Trevor T. Triffo** will function as MDST's **Project Manager** for this project. Mr. Triffo holds a Master of Science Degree in Civil Engineering specializing in pavement and geotechnical engineering. He has worked in the pavement management field in roles of increasing responsibility over his thirty-year professional career and is a recognized leader in the industry. He has participated in literally hundreds of pavement and right-of-way asset management system implementation projects as field engineer, data analyst, project manager, and principal in charge. These projects have been located throughout the United States, Canada, and the Middle East. Clients include municipal and county governments, metropolitan planning organizations, DOTs, and foreign governments.

Mr. Triffo has worked hands-on evaluating pavement condition and has supervised large groups of people performing this task. He has developed quality control procedures to maximize data quality and ensure that data delivered to clients is complete and accurately represents the conditions in the field.

Mr. Triffo is currently functioning as Project Manager of pavement management implementation projects for the City of Burnsville, MN, and Kitsap County, WA. Also, he has recently functioned as Project Manager of successful pavement management implementation projects for:

- City of South Jordan, UT
- City of Boulder, CO
- Summit County, CO
- City of Moscow, ID
- City and County of Honolulu, HI
- York County, SC
- City of Wheaton, IL
- Village of Mt. Prospect, IL
- Village of Glen Ellyn, IL
- Village of Bartlett, IL
- Village of Wheeling, IL
- Village of Bensenville, IL
- Village of Carpentersville, IL
- City of Carmel, IN
- Anderson County, SC
- City of Orlando, FL

Mr. Triffo has made numerous presentations to senior staff and elected officials of municipal and county governments to provide/summarize the results of pavement management studies. He has also conducted numerous training sessions to transfer knowledge to new and experienced users of pavement management applications. A detailed resume for Mr. Triffo is provided in Appendix A.

### ***3.2 Project Manager Role and Involvement***

As Project Manager, Mr. Triffo will be intimately involved in all aspects of the work for the duration of the project. Any work not done specifically by Mr. Triffo will be directly overseen, reviewed for quality, and ultimately approved for release to the Village by Mr. Triffo.

As MDST's Project Manager of this project, Mr. Triffo will:

- function as the project team's point of contact for Village staff;
- implement a Project Communication Plan to facilitate effective communication between the Village and MDST;
- personally attend all project meetings at the Village;
- manage the activities of the MDST field crew;
- oversee office based pavement condition assessment activities;
- personally perform quality checks required as part of company standard operating procedures;
- monitor the status of the project from a cost and schedule perspective and take action as required to keep the project on track.

### ***3.3 Fieldwork***

**Mr. Anthony Raitano** will function as MDST's **Field Technician** for this project. Mr. Raitano has functioned in this capacity with MDST for ten years and has collected and analyzed data on many data collection projects including Chatham County, GA; City of Wheaton, IL; Village of Bartlett, IL; Village of Glen Ellyn, IL; Village of Carpentersville, IL; and the City of Carmel, IN. Mr. Raitano will also work with Mr. Triffo to quality check the data in our office in accordance with company procedures. A detailed resume for Mr. Raitano is provided in Appendix A.

### ***3.4 Pavement Analysis Team***

MDST has a group of four individuals that have been trained in our techniques to evaluate pavement condition in accordance with ASTM D6433. Any new members of the analytical team must go through a rigorous training process and pass a post training test before being allowed to join the pavement team and evaluate pavement condition for our clients. To maximize data quality and consistency, the number of individuals kept as small as possible (but large enough to complete the work according to schedule).

## 4 Similar Projects and References

MDST has significant experience implementing pavement management systems for municipalities and evaluating pavement condition. Project Profiles and contact information for some sample projects are provided below.

**Project: MicroPAVER Pavement Management System Implementation**  
**Client: Village of Bartlett, IL**  
**Timeframe: 2007, 2009, 2011, 2015**

The Village of Bartlett is located in the Chicago metropolitan area. The Village maintains approximately 135 centerline miles of paved roads. MDST was retained to implement the MicroPAVER pavement management system for the Public Works Department in 2007. MDST defined the Village's road network within MicroPAVER, inspected the Village's pavements using our vehicle based technology, and calculated PCI scores for each road segment. The inspection data was updated in 2009, 2011, and 2015. As part of the 2011 update, MDST assisted Village staff to estimate the cost of needed rehabilitation as part of a bond issue for infrastructure renewal.

Contact Info: Mr. Bob Allen, Engineer  
Tel: 630-837-0811  
E-mail: rallen@vbartlett.org

**Project: MicroPAVER Pavement Management System Implementation**  
**Client: York County, SC**  
**Timeframe: 2014/15**

York County, SC is located adjacent to the North Carolina State Line and is a collar county to Charlotte, NC. The County maintains approximately 460 centerline miles of paved roads. MDST was retained to implement a pavement management system for the Public Works Department. MDST built a pavement management database based on data contained in the County's GIS. MDST assessed the condition of the road network, uploaded the data into the pavement management database, and calculated PCI scores for each road segment. The system was also linked to the County's GIS so that pavement condition data can be thematically displayed in the County's GIS.

MDST also configured the system to generate multi-year pavement rehabilitation programs and perform funding impact analysis. Training was provided to County staff so that they would have the knowledge and skills needed to maintain the system going forward. We also provided digital imagery of each road linked to the County's pavement centerline file. This allows County staff to view the condition and other aspects of the County road network from the office.

Contact Info: Mr. Ryan Blancke, Assistant Public Works Director  
Tel: 803-628-3199  
E-mail: ryan.blancke@yorkcountygov.com



**Project: Pavement Management System Implementation**  
**Client: City of Boulder, CO**  
**Timeframe: 2007, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016**

This ongoing work involves collecting pavement condition data and to keep the City's pavement management system up to date. The City maintains approximately 360 centerline miles of roads with both AC and PCC surfaces. MDST was originally hired in 2007 to implement the system for the City. The initial project involved providing pavement condition data for the entire road network so that the database contained current data for all road segments. The City was divided into three geographic areas with roughly equal road mileage for purposes of keeping the data current going forward. The pavement condition data in one area is updated annually every year since 2009 so that the data for the entire City is updated on a three-year cycle.

MDST uses its vehicle based data collection technology to capture geo-located digital images of the City's road network. Using a specially designed software tool, MDST staff performs a 'virtual drive' of these pavements in an office environment to capture the severity and extent of various pavement distresses that are present on each road segment. This pavement condition data is uploaded into the pavement management database and a Pavement Condition Index (PCI) score is calculated for each segment. MDST also provided training to City staff to manually perform PCI inspections.

MDST also integrated the pavement management system to the City's GIS. Through this linkage, the City can graphically display pavement condition and other data from the pavement management system thematically as shown in the adjacent image. Each color represents a different pavement condition range (e.g. Dark blue represents pavements with PCI scores ranging from 85 to 100, meaning these roads are in very good condition).



Contact Info: Mr. Rod Rindal, P.E., Transportation Engineer  
Tel: 303.441.3266  
E-mail: rindalr@bouldercolorado.gov

**Project: Pavement Management System Implementation**  
**Client: City of South Jordan, UT**  
**Timeframe: 2016**

MDST was retained in 2016 to implement a pavement management system for the South Jordan City. South Jordan is located in the Salt Lake City metropolitan area and has a 230 centerline mile road network.

MDST used its vehicle based data collection technology to capture sequential digital images of the County's road network. MDST staff captured the severity and extent of various pavement distresses that were present on each road segment through a review of the digital imagery in accordance with ASTM D6433-11. This pavement condition data was uploaded into the pavement management database and a numeric PCI score was calculated for each segment.

The project had a tight timeline and was completed according to schedule over a 2 ½ month time frame.

Contact Info: Mr. Jed Bell, Street Division Manager  
Tel: 801.254.3742  
E-mail: jbell@sjc.utah.gov

**Project: Pavement Management System Implementation**  
**Client: City of Wheaton, IL**  
**Timeframe: 2012, 2015/16**

MDST was originally hired in 2012 to implement a pavement management system developed by Lucity Systems for the City. Wheaton is located in suburban Chicago and has a 135-mile road network.

MDST used its vehicle based data collection technology to capture sequential digital images of the County's road network. MDST staff captured the severity and extent of various pavement distresses that were present on each road segment through a review of the digital imagery. This pavement condition data was uploaded into the pavement management database and a numeric pavement condition score was calculated for each segment.

MDST modified the pavement condition model to better reflect the actual road conditions in the City and approximate the values that would be generated by the ASTM standard PCI model.

Using historical construction/pavement rehabilitation data and the condition data for each road segment, MDST developed pavement deterioration models that are specific to the City of Wheaton. Additional analysis was performed to estimate the impact that various budget scenarios would have on the overall condition of the City's road network over the upcoming 10 years. A written report was created that summarized the work performed and the major finding of the study. MDST staff provided support to senior staff as they prepared a presentation to City council.

MDST was re-hired in 2015/16 to re-assess the condition of the City's roads, load the data into Lucity, calculate PCI scores, update the budget analysis and provide a new report.

Contact Info: Mr. Sarang A. Lagvankar, P.E.  
Tel: 630.260.2067  
E-mail: slagvankar@wheaton.il.us

**Project: Pavement Management System Implementation**

**Client: City of Moscow, ID**

**Timeframe: 2013, 2015, 2017**

The City of Moscow, ID is located in western Idaho adjacent to the Washington State line. The City maintains 83 centerline miles of both AC and PCC surfaced roads. MDST implemented pavement management system to help staff manage the City's road network. The road network was segmented primarily on an intersection to intersection basis based on data acquired from the City's GIS. MDST assessed the condition of the road network and uploaded the data into the pavement management database. Pavement evaluation training was provided to City staff. Software user training was also provided.

MDST was retained in 2015 to configure the budget analysis module of the pavement management system so that City staff could use it to create multi-year rehabilitation programs and determine the effect that various pavement rehabilitation budget streams would have on the future condition of the City's road network. MDST worked in conjunction with City staff to configure the system to reflect the City's pavement rehabilitation policies and practices. Re-inspection of the City's roads is currently ongoing.

Contact Info: Mr. Kevin Lilly, P.E., City Engineer  
Tel: 208.883.7023  
E-mail: klilly@ci.moscow.id.us

**Project: MicroPAVER Pavement Management System Implementation**

**Client: Village of Mount Prospect, IL**

**Timeframe: 2011, 2016**

This project involved implementing a pavement management system for the Village of Mount Prospect, IL. The Village maintains approximately 135 centerline miles of roads and alleys and is located in the suburban Chicago area.

MDST built a pavement database that defined the Village's road network as a number of road segments. The segments typically ran block to block and the end points of segments were defined by the centerline of intersecting streets. This was done to facilitate a linkage to GIS through a pavement centerline file provided by the Village.

MDST collected geo-referenced digital imagery using vehicle based technology. Using a specially designed software tool, MDST staff performed a 'virtual drive' of these pavements in

an office environment and captured the severity and extent of various pavement distresses that were present on each road segment. This pavement condition data was uploaded into the pavement management database and a Pavement Condition Index (PCI) score was calculated for each segment. MDST installed the pavement management system on Village computers and provided user training to Village staff.

Digital imagery in AVI format was linked to GIS so that Village staff can access imagery of interest simply by selecting the desired road segment using the Hyperlink tool.

Contact Info: Mr. Joel Michalik  
Tel: 847.870.5640  
E-mail: [jmichalik@mountprospect.org](mailto:jmichalik@mountprospect.org)

**Project: MicroPAVER Pavement Management Training**  
**Client: City and County of Honolulu, HI**  
**Timeframe: 2014**

In this project MDST provided in-depth training on the use of MicroPAVER for a large number of staff in the County of Honolulu Department of Facility Maintenance to use the MicroPAVER pavement management system. The training was also attended by engineers from the Hawaii Department of Transportation. The training sessions were typically attended by 15 to 20 people.

The training was provided over five (5) days and included all aspects of the MicroPAVER system. This included:

- A senior level overview of the system for director level staff and members of the mayor's office;
- A classroom review of pavement distresses that can occur AC and PCC surfaced pavements and how they are classified in the Pavement Condition Index model;
- Field training on how to perform pavement evaluation;
- Accessing and editing road segment data in MicroPAVER;
- Adding new pavement inspection data and calculating PCI scores;
- Creating pavement performance models within MicroPAVER;
- Configuring MicroPAVER to reflect the City and County's policies and practices regarding pavement rehabilitation;
- Generating rehabilitation programs and performing budget analysis for a variety of budget scenarios and interpreting the results;
- Linking the system to GIS; and,
- Creating standard and user-defined reports including filtering and sorting data.

Contact Info: Ms. Cyndy Aylett  
Tel: 808-768-3475  
E-mail: [caylett@honolulu.gov](mailto:caylett@honolulu.gov)

## 5 Schedule

A project initiation meeting can be performed within two (2) weeks of receiving authorization to proceed. The field work would proceed immediately thereafter and will take approximately three (3) days to complete. The pavement evaluation task is an office based task that will be initiated immediately after the field work is completed and is expected to take a maximum of five (5) weeks to complete. The rehabilitation programming, budget analysis, project report, spreadsheet, and GIS pavement centerline file can begin immediately after the PCI scores have been calculated and completed over a four (4) week timeframe. The entire project can be completed over a maximum period of 12 weeks. Assuming we receive authorization to proceed by September 1, 2017, the project can be complete by December 1, 2017.

Alternate schedules can be considered if desired by the Village.

## 6 Project Fee

MDST is prepared to provide our services for an all-inclusive lump sum fee as shown in the tables below. A lump sum contract relieves the Village of any risk related to cost overruns. MDST will submit an invoice to the Village upon completion of the field work and on a monthly basis thereafter. Invoiced amounts will be pro-rated based on percent complete by Task. Payment terms are Net Thirty (30) days. These fees are valid for ninety (90) days.

### Fee Schedule

Task	Description	Cost
1.	Project Initiation Meeting	\$1,000
2.	Build MicroPAVER Database	\$2,500
3.	Field Work	\$5,000
4.	Pavement Condition Evaluation	\$7,000
5.	Rehabilitation Programming and Budget Analysis	\$3,000
6.	Project Report and Spreadsheet	\$1,950
7.	GIS Pavement Centerline File	\$500
<b>Total:</b>		<b>\$20,950</b>

## **Appendix A: Resumes**

## Trevor T. Triffo Principal, MDS Technologies, Inc.

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### Introduction

Mr. Triffo is Principal of MDST Technologies, Inc. In this position, Mr. Triffo is responsible for all aspects of company operations. Mr. Triffo has spent his thirty-year career in the pavement and transportation infrastructure asset management industry. He has participated in several hundred initial implementation and data update projects for clients at the municipal, county, regional, and state level throughout the United States and Canada. On these projects, he has functioned in a variety of positions including Project Engineer, Project Manager, and Principal in Charge. Mr. Triffo has also functioned as co-Project Manager of a comprehensive infrastructure asset management system for the State of Kuwait.

### Pavement Inventory and Condition Assessment Experience

Mr. Triffo has designed, participated in, and supervised data collection programs for numerous agencies ranging from small municipalities to state DOTs. Mr. Triffo has extensive experience with a variety data collection technologies and techniques.

- *Automated Condition Data Collection* – Mr. Triffo has been involved in over 200 projects in which non-contact technology was used to acquire pavement roughness, and wheel track rutting. A significant percentage of these projects also required collection of automated geometric information such as grade, cross-fall, and radius of curvature. This data was collected using a combination of laser cameras, accelerometers, inclinometers, and rate gyroscopes.
- *Surface Distress Surveys* – Mr. Triffo has been involved in roughly an equal number of projects that involved collection of surface distress data. Mr. Triffo is very familiar with numerous ways to collect this data including manual methods and semi-automated (windshield) methods. Mr. Triffo has also been involved in research efforts to develop a totally automated optical crack detection system that utilized high resolution digital cameras, a strobe lighting system, and a parallel process computing system to perform pixel analysis/crack detection in real time.
- *Non-Destructive Deflection Testing* – Mr. Triffo is intimately familiar with non-destructive deflection (NDT) testing of pavements. Mr. Triffo has analyzed deflection data acquired by a Dynaflect device and Falling Weight Deflectometer (FWD) on thousands of miles of pavements of all types and in all areas of the United States and Canada.

Mr. Triffo is trained as an engineer and with an emphasis in soils, materials, and pavements. His Master's research Thesis involved the study of concrete pavement deterioration due to exposure to freeze/thaw cycles. The combination of Mr. Triffo's academic training and practical experience put him in a very strong position to understand an Agency's unique pavement issues and address them in the pavement management application.

## Pavement Management System Implementation Experience

The vast majority of the data collection projects mentioned above involved loading data and/or implementation of a pavement management system for client Agencies. Mr. Triffo has vast experience with all aspects of system implementation including:

- Agency needs analysis to determine the required functionality of the system;
- Design of appropriate data collection programs that meet the technical needs and budget constraints of the agency;
- Design and implementation of appropriate quality control plans to ensure data integrity;
- Development of Agency specific models so that the output of the system reflects the Agency's unique combination of conditions, policies, and practices; and
- Training of Agency staff on field data collection, principals of pavement management, and use of the selected system so that the Agency does not need to rely on outside sources to maintain the system.
- Design interfaces between the pavement management application and other systems such as GIS and Work/Maintenance Management.
- Presentation to senior staff and/or elected officials to communicate findings, conclusions, and recommendations resulting from implementation of the system.

## System Design and Development

Mr. Triffo has successfully led the design and development of pavement management applications for the private and public sector. For the public sector, systems were designed to meet the specific needs of municipalities, counties, and DOT agencies.

Mr. Triffo also designed and managed the development of a comprehensive right of way asset management system. This system utilized a generalized analytical engine that enabled users to inventory and assess the condition of a wide range of infrastructure assets. The types of assets that can be accommodated by this system are signs and supports, sidewalks, curb and gutter, pavement markings, sound and retaining walls, traffic signals, lighting systems, drainage inlets and manholes, fire hydrants, underground utilities such as storm sewer, sanitary sewer, and water distribution networks.



## Work History

MDS Technologies, Inc. <i>Founder/Principal</i>	Park Ridge (Chicago), IL June 2003 to Present
IMS Infrastructure Management Services, Inc. <i>Senior Vice President</i>	Arlington Heights (Chicago), IL January 1998 to June 2003
Stantec, Inc. <i>Manager, Implementation Department</i>	Cambridge, ON, Canada 1989 to December 1997
Shiplake Management, Ltd. <i>Construction Engineer</i>	Toronto, ON, Canada 1988 to 1989
Trow Geotechnical, Ltd. <i>Pavement Engineer</i>	Brampton, ON, Canada 1987 to 1988
Pavement Management Systems, Ltd. <i>Data Analyst</i>	Cambridge, ON, Canada 1986 to 1987

## Education

York University Toronto, ON, Canada Coursework toward MBA	1989- 1992
University of Manitoba Winnipeg, MB, Canada <b>M.Sc. Civil Engineering (Geotechnical/Pavements)</b>	1984 - 1987
University of Manitoba Winnipeg, MB, Canada <b>B.Sc. Civil Engineering</b>	1980 - 1984

## Anthony Raitano Field Operations Technician

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### Professional Experience

Mr. Raitano has functioned as a Field Operations Technician with MDST for over ten years. In this capacity Mr. Raitano operates the MDST data collection vehicle. He performs daily calibration/quality checks and operates the vehicle in conformance with established company policies and procedures.

Mr. Raitano communicates with clients to keep them informed of his whereabouts as their roads are driven, and keeps them abreast of his progress. He also contacts our clients when the map documents appear inaccurate or incomplete to address the situation and ensure that all roads to be included in the field work program are tested. He has performed demonstrations of our vehicle based technology to clients.

### Project Experience

Mr. Raitano has operated the MDST data collection vehicle on a number of successful pavement and right-of-way asset management implementation projects, including systems we have implemented for Green River, WY; Bartlett, IL; Glen Ellyn, IL; Carpentersville, IL; Chatham County, GA; and Carmel, IN.

### Work History

MDS Technologies, Inc.  
*Field Operations Technician*

Park Ridge, IL  
2004 to Present

City of Park Ridge  
*Police Officer*

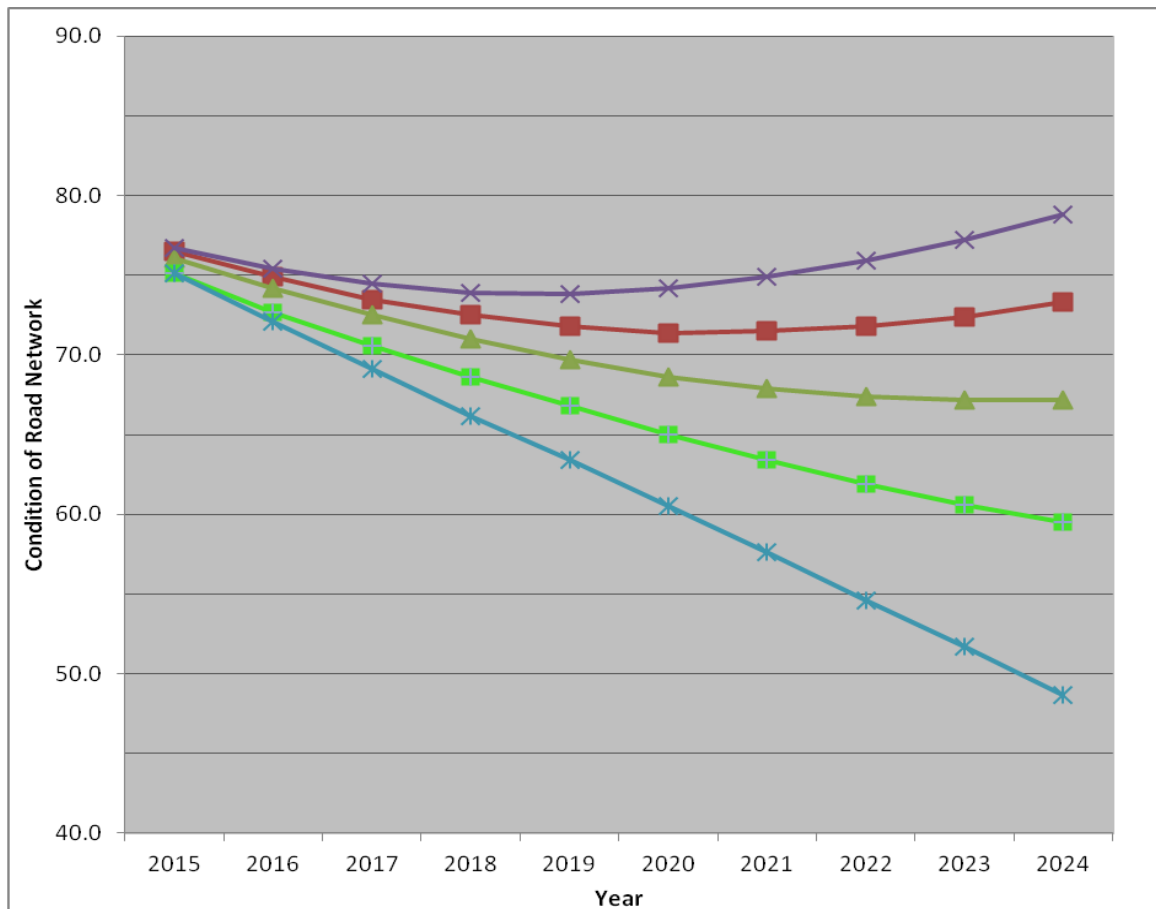
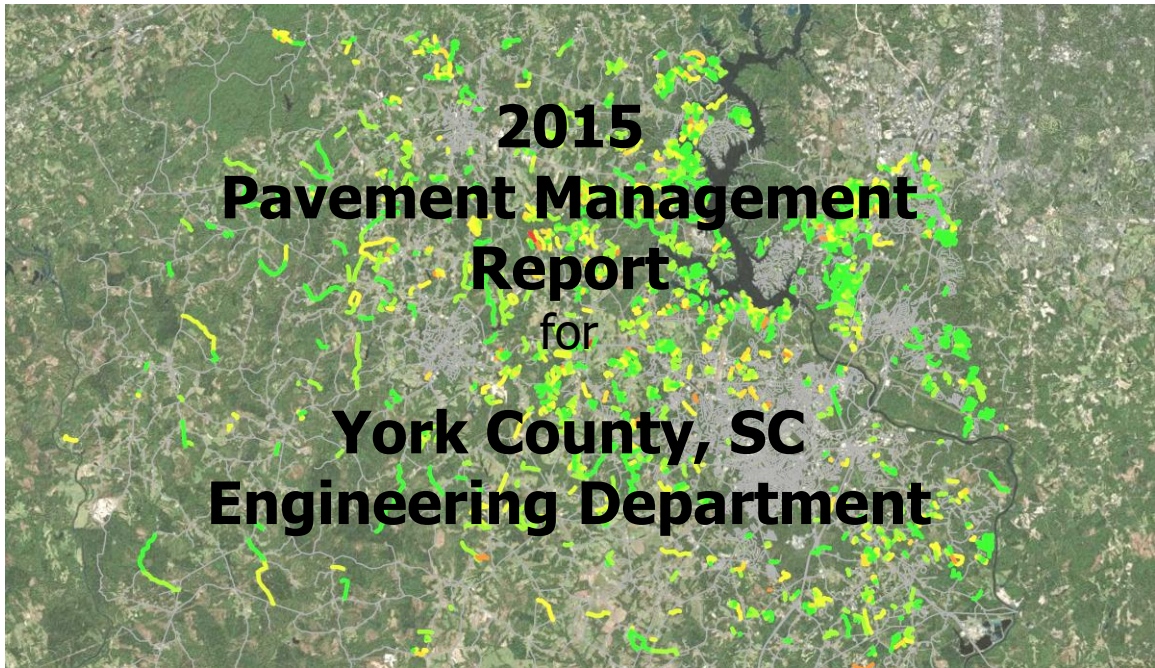
Park Ridge, IL  
1996 to 2004

### Education

Harper College, Palatine, Illinois  
Criminal Justice Major  
Continuing Education 1989 - 2004

Illinois State Police Academy, Springfield, Illinois  
Graduated 1995 Class 400-54

Schaumburg High School, Schaumburg, Illinois  
Diploma  
Graduated 1988

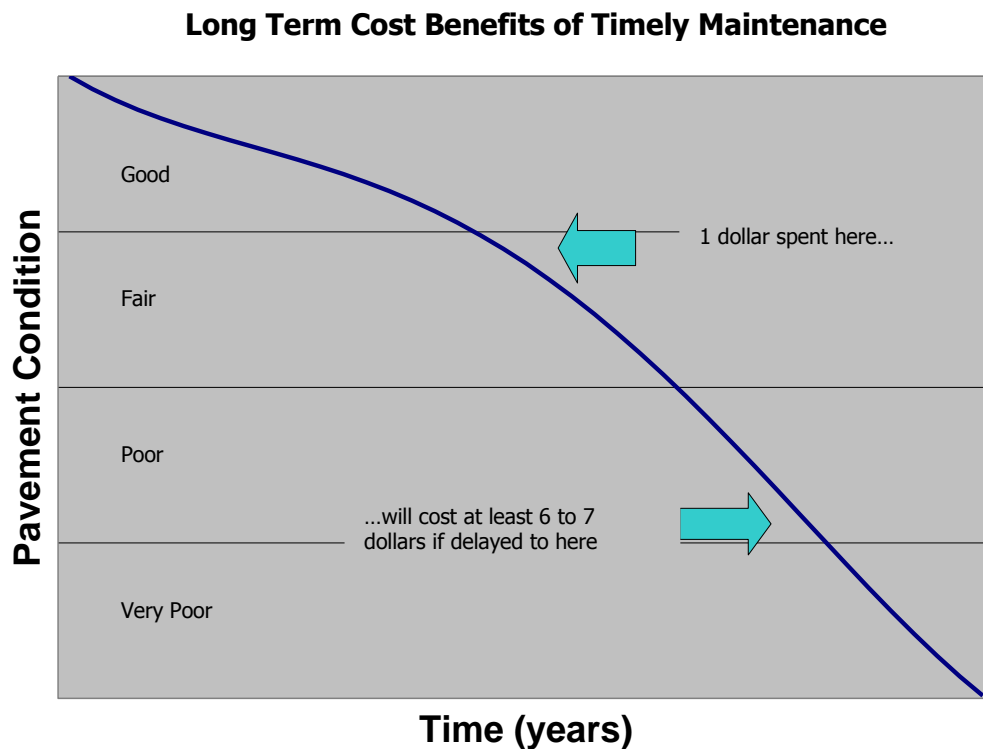


**MDS Technologies, Inc.  
June 2015**

## Executive Summary

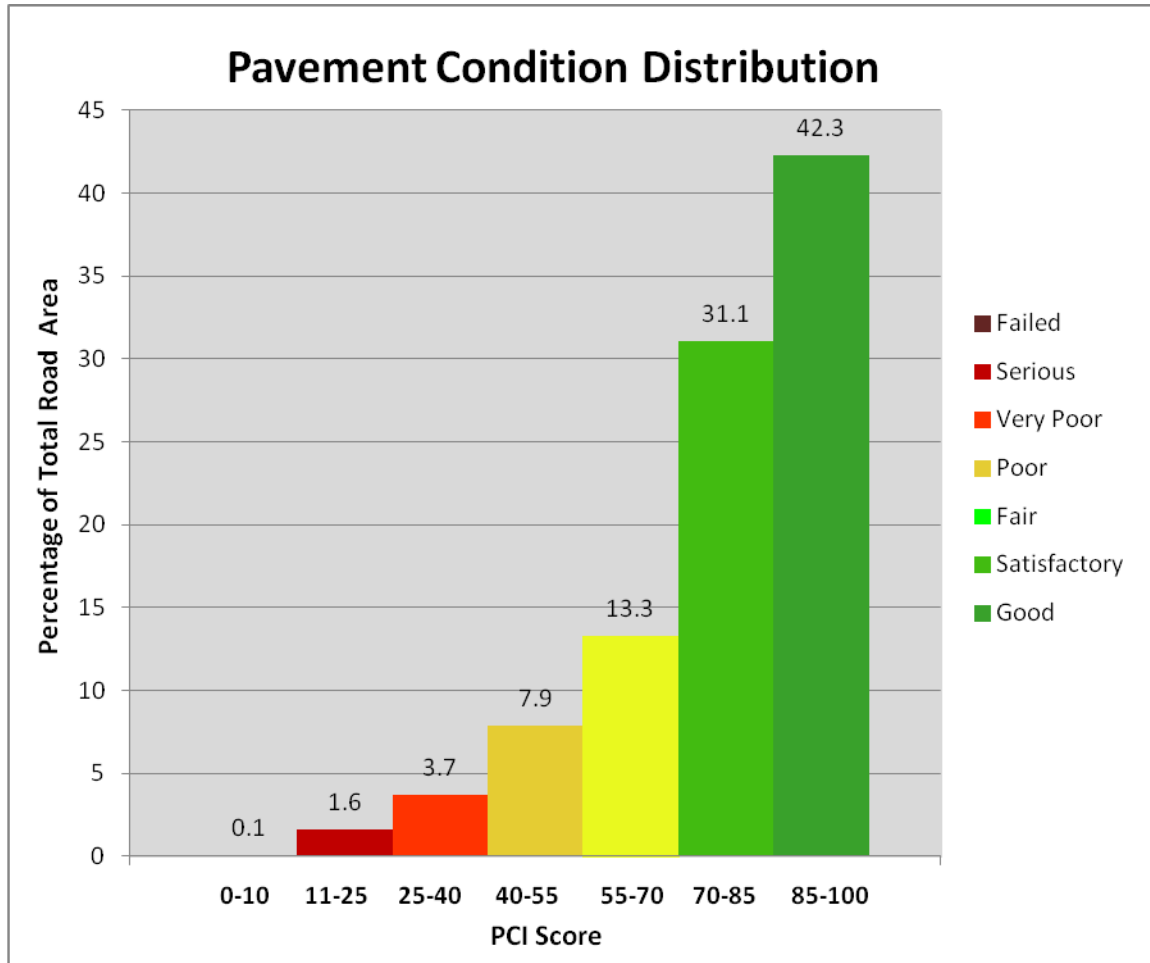
York County, SC maintains an extensive road network consisting of approximately 455.5 center-line miles of paved roads. This road network is a major asset that requires ongoing maintenance and rehabilitation to provide a desirable level of service to the traveling public.

The basic premise behind the pro-active management of pavement assets is illustrated below. If a relatively small amount of money is not spent when a pavement begins to exhibit signs of distress, a much larger downstream expenditure will ultimately be required. Because the deterioration rate of a pavement tends to accelerate as it ages, the time lapse from the smaller expenditure to the larger expenditure is relatively short. Performing maintenance before deterioration begins to accelerate provides the best value to the County in the long term.



A systematic evaluation of the condition all 455.5 centerline miles of the County's road network was performed. The road network was divided into 1990 individual segments. The resulting data was used to calculate a Pavement Condition Index (PCI score) for each segment. PCI scores can range from 100 (excellent condition) to zero (serious/failed condition).

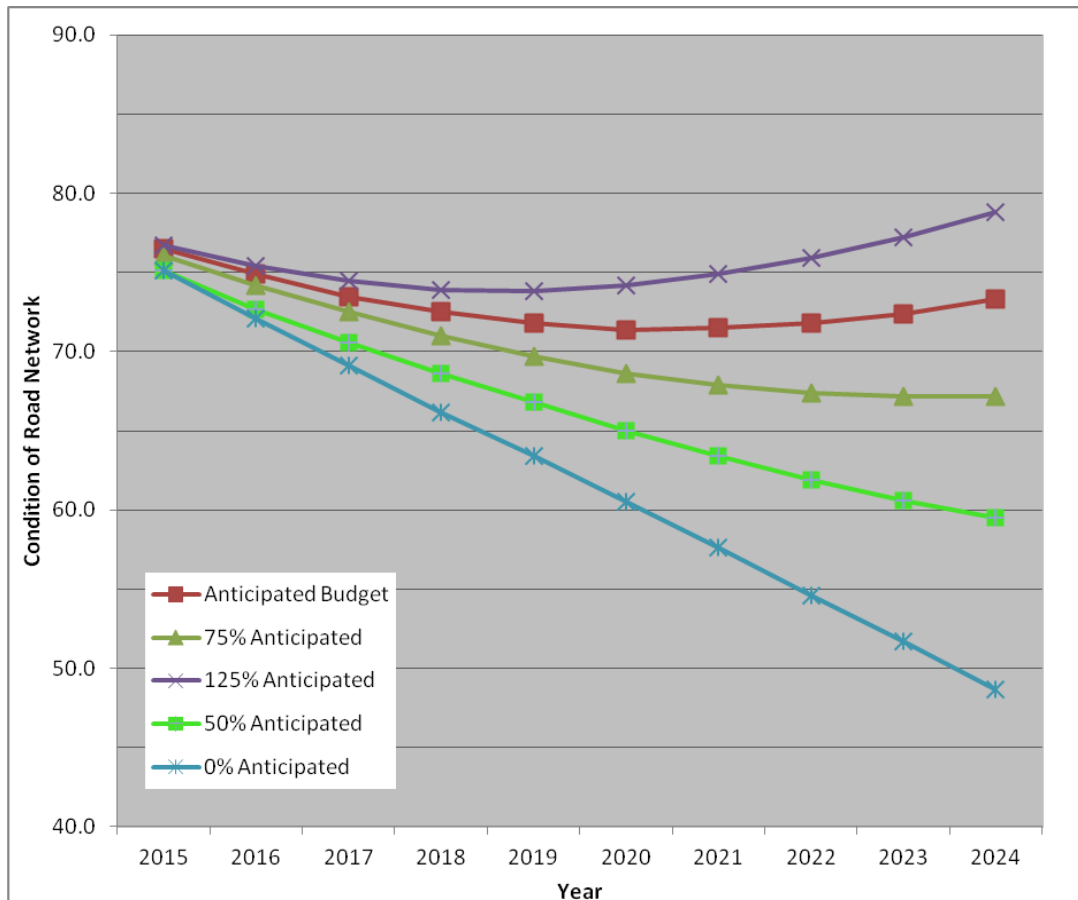
The result of this analysis is summarized below. Roughly 73.4% of the County's road network is in Good to Satisfactory condition. About 13.3% of the network is in Fair condition, and 7.9% is in Poor condition. The remaining 5.4% of the network is in Very Poor or worse condition. The overall average condition of the road network is 79.1 out of 100.



Budget Analysis was also performed to estimate the effect that various funding scenarios would have on the condition of the County's road network. The anticipated budget is a combination of funding available from the County's Critical Needs Budget and the South Carolina C-Fund Gasoline Tax Program. The Critical Needs Budget is expected to increase 8 percent annually from the current amount of \$1.84 million. Funds available for County road rehabilitation from the C-Fund are more volatile but are assumed to increase by \$113,000 annually from the current amount of \$1.19 million.

The budget scenarios analyzed were the Anticipated Budget and 125%, 75%, 50%, and 0% of the Anticipated Budget. The result of this analysis is summarized in the Figure below.

### Estimated Future Condition of Wheaton Roads for Various Funding Scenarios



For the Anticipated Budget, the average PCI of the network decreases every year until the year 2020 and then begins to increase again. However, after 10 years the network average PCI of 73.3 is still less than the PCI in the first year of the program.

In the case of the 125% Budget, the network average PCI stops decreasing in 2019, one year before it does with the Anticipated Budget. After 10 years, the PCI is 78.8 which 7.5% higher than the PCI with the Anticipated Budget.

For the 75% Budget, the network average PCI does not dip and recover, but approaches a steady state of 67.2 after 10 years. For the 50% Budget, the network average PCI drops continuously to 59.5 after 10 years. Finally, in the case of the 0% (Do-Nothing) Budget, the network average PCI drops to 48.7 after 10 years.

This analysis clearly shows the effect that reduced or deferred spending would have on the County's paved road network.

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## 1.0 Introduction

York County (subsequently referred to as the County) maintains an extensive road network consisting of approximately 455.5 center-line miles (5.88 million square yards) of paved roads. This road network is a major County asset that requires ongoing maintenance and rehabilitation to provide a desirable level of service to the traveling public. The County also maintains a number of gravel surfaced roads and paved roads under the jurisdiction of the State and various municipal governments that are not included in the above totals.

The County uses pavement management software called MicroPAVER to help County staff manage its pavement network. This system provides the means to systematically evaluate pavement condition and estimate the impact that various funding scenarios would have on the condition of the County's road network.

The County commissioned MDS Technologies, Inc. (subsequently referred to as MDST) to implement the MicroPAVER system for the County.

## 2.0 Pavement Inventory

The first step in developing a pavement management system is defining the road network in the system. MicroPAVER uses a Branch:Segment approach for this purpose. Each road is assigned a unique alphanumeric Branch ID. A road (Branch) is composed of one or more Segments that together define the entire length of a road. The endpoints of Segments are usually intersecting roads but in some cases end points can occur at other locations such as when there is a clear change in pavement type or condition. For example, if a road runs from intersecting road "A" to intersecting road "D" with intersecting roads "B" and "C" in between these two points, the road may be segmented as follows:

Branch ID	Segment ID	Road Name	From	To
0010	0010	1 <sup>st</sup> Avenue	A Street	B Street
0010	0020	1 <sup>st</sup> Avenue	B Street	C Street
0010	0030	1 <sup>st</sup> Avenue	C Street	D Street

In this case, "1<sup>st</sup> Avenue" has been assigned a Branch ID of "0010". Since the Branch ID for each road must be unique (meaning no other road can be assigned a Branch ID of "0010"), the combination of the Branch ID and the Segment ID uniquely defines each road Segment.

County staff provided a GIS pavement centerline file that identified which roads needed to be defined in the MicroPAVER database. MDST defined each of these roads in MicroPAVER using the Branch:Segment approach described above. The road names used in the MicroPAVER system came from this GIS data. Many roads, especially those in more rural areas of the County, run a certain distance from a larger road and then simply end. If the road widened significantly at the end point to provide a turnaround



opportunity, then the end point was described in MicroPAVER as "Cul-de-Sac". If the road did not widen at the end point, then the end point was described as "North/South/East/West End" depending on the overall direction the road takes from the starting point.

As mentioned previously, gravel surfaced roads were generally not included in the MicroPAVER database. However, some County roads have both a paved and gravel surface at some point along their length. In these cases, the gravel surfaced portion was included in the MicroPAVER system for inventory purposes.

### **3.0 Segment Attribute Data**

Certain information is required by MicroPAVER to define each Segment and to facilitate rehabilitation programming and budget analysis. These data requirements, and how the data was acquired/assigned, are discussed below:

#### Last Construction Date

This is the date that the Segment was constructed or last received major rehabilitation such as an overlay. This date was defaulted to "1/1/1980". This data can be updated in the system at anytime.

#### From and To Termini Descriptors

The names of intersecting roads were acquired from the GIS pavement centerline file provided by County staff.

#### Segment Length

Segment Length data was acquired from the GIS pavement centerline file. In cases where the line work was inaccurate a better estimate of segment length was acquired from the GPS data captured from the MDST data collection vehicle.

#### Segment Width

Segment Width data was measured from ortho-photography in a GIS environment and/or estimated from the street level digital imagery acquired by MDST. In cases where the paved width of a road changed along the length of the road, a representative value was obtained. Turning lanes, acceleration/deceleration lanes, and cul-de-sac bulbs were not taken into consideration unless they were present for the entire length of a Segment.

#### Rank

Segment Rank can be used to assign Segments higher or lower priority in the rehabilitation programming analysis in MicroPAVER. All Segments were assigned the same Rank to initiate the system.

## Surface Type

Surface Type was assigned based on the viewing the street level digital imagery collected by MDST. The County does not maintain any PCC surfaced roads, so the large majority of Segments were assigned a Surface Type of "AC". As noted above, a small number of gravel surfaced Segments were included in the database and have a Surface Type of "GR". One Segment is Unimproved and has a Surface Type of "X".

## **4.0 Pavement Condition Assessment**

An important component of the pavement management analysis is the inspection of each road segment. These inspections provided the data required to assess the condition of the County's roads.

### ***4.1 Field Data Collection***

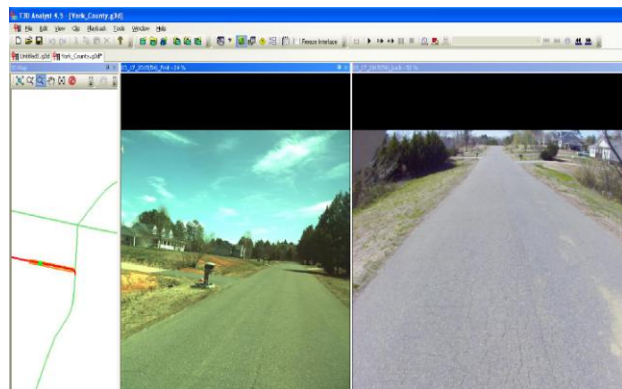
MDST used a vehicle-based approach to collect geo-referenced digital images of County maintained roads. Roof mounted cameras were used to capture sequential images of each pavement Segment. A two camera system was used. One of the cameras was used to acquire forward looking, pavement-oriented images capturing a general streetscape view. The second camera was mounted at the rear of the vehicle and was used to capture a downward looking, detailed pavement view. Images were captured at approximately 10 foot intervals so that the entire pavement surface could be evaluated when the images are viewed sequentially. The image capture process was monitored in real time by the vehicle operator to ensure that the quality of the captured images met the required standard for downstream condition assessment work in the office.

Positioning data for each image was acquired through GPS technology. The positioning data allows pavement condition data to be extracted from the images and assigned to the corresponding pavement segment.

### ***4.2 Office-Based Condition Assessment***

The geo-referenced pavement images were loaded into a software application so that a 'virtual drive' of County streets could be performed in an office environment. The adjacent image shows typical forward and downward images obtained from the data collection vehicle.

MDST staff viewed the sequential images from both cameras to determine the severity and extent of the distresses that



existed on a road segment. This data was then loaded into the pavement management database and used to calculate a numeric score representing the condition of each road segment.

## **4.0 Current Pavement Condition**

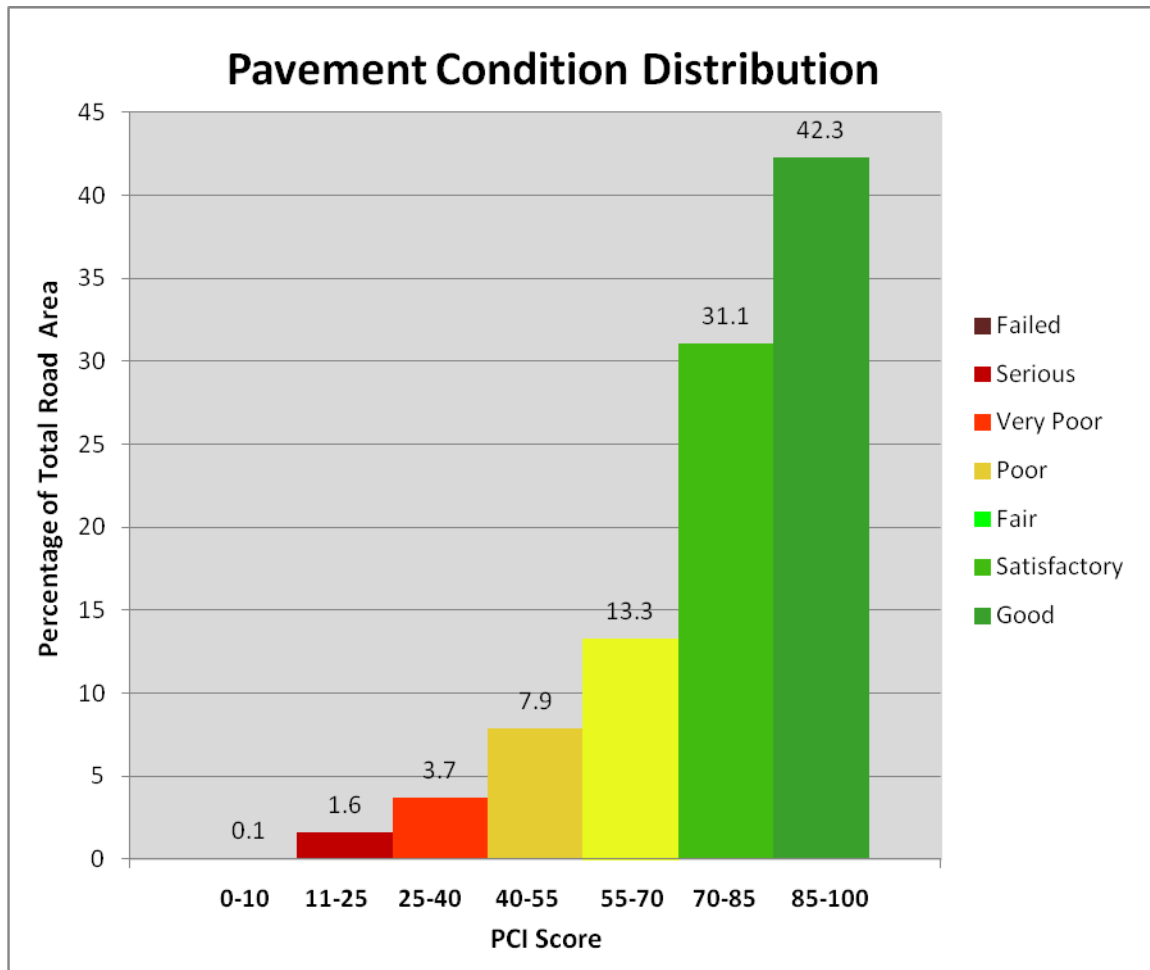
The condition of each road segment is reflected in its Pavement Condition Index (PCI) score. This index is calculated by the MicroPAVER system based on the severity and extent of surface distresses that exist on a road surface. The MicroPAVER system considers up to nineteen (19) types of distress for both asphalt and concrete pavements. Distresses are typically caused by load-related and/or climate-related factors.

The PCI model is used to calculate a numeric score on a scale of one hundred (100) to zero (0). A score of 100 indicates that a pavement is exhibiting no distress and a score of 0 indicates that a pavement is very heavily distressed. A PCI score is calculated for each road segment. The PCI score for a road segment can be easily accessed through the MicroPAVER system, or a computer report can be generated that lists the PCI score for all of the County's road segments. Such reports can be sorted and/or filtered as required.

The results of the current condition analysis for the County's roads are discussed below. It is important to note that the PCI score of each segment represents its condition at the time that the condition data was collected. MDST staff captured this data over several days in November/December 2014 and mid-March 2015. Also, since the road segments vary in size, simple arithmetic averages do not accurately represent the overall road conditions. The summary data presented in this report is weighted by segment area to address this issue.

The condition of the County's roads is summarized in Figure 1. Approximately 5.4 percent of the County's roads had a PCI score of 40 or less. A PCI score of 40 or less indicates that a road segment falls into the Very Poor, Serious, or Failed category. Pavements that fall into these categories (particularly those in the low end of this range) are typically candidates for partial or full reconstruction as resurfacing strategies are often not effective in this case.

An additional 7.9 percent of the County's roads had a PCI score in the 40 to 55 range. Pavements with PCI scores in this range are considered to be in Poor condition. These pavements are typically candidates for some form of major rehabilitation such as mill and overlay.



**Figure 1: Current Condition of County Roads**

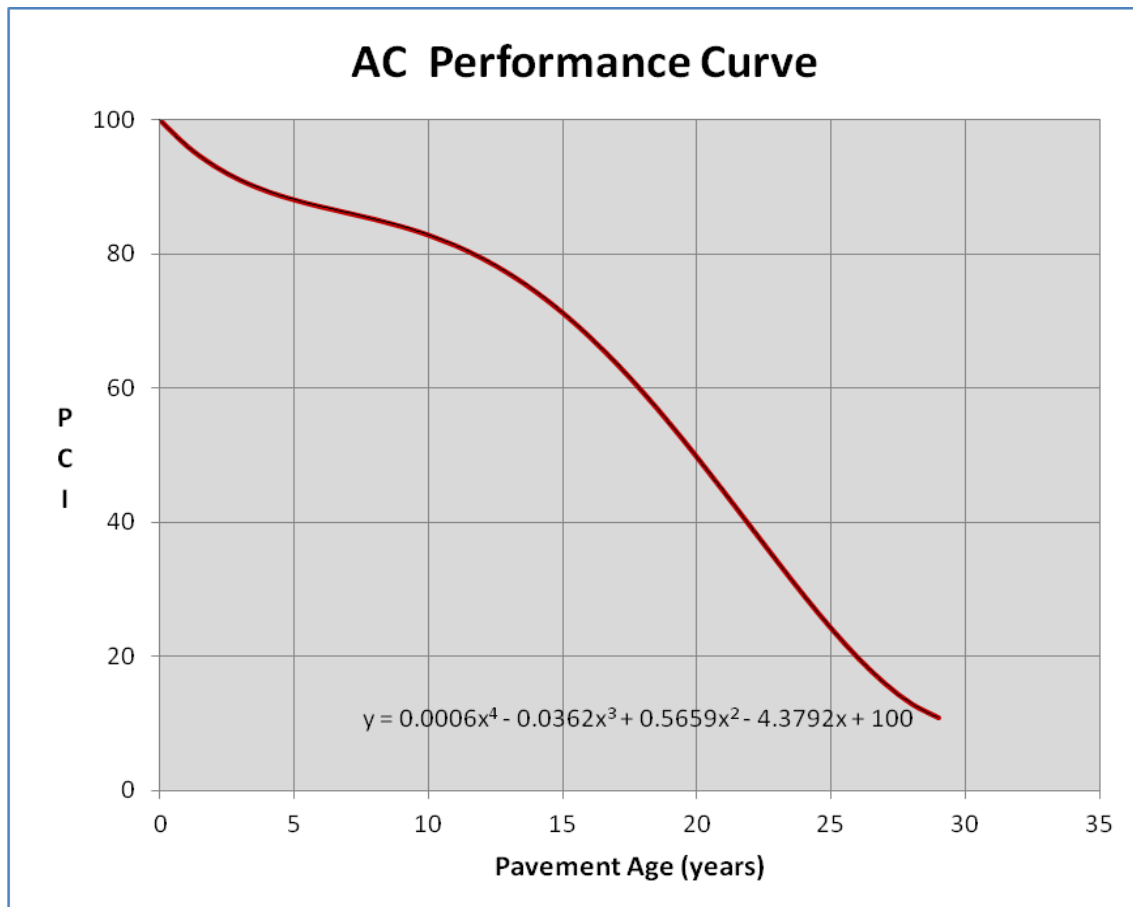
A slightly larger percentage of roads – 13.3 percent – are considered to be in Fair condition with PCI score in the range of 55 to 70. Roads in this condition may be candidates for major rehabilitation if a functional or structural deficiency exists, or they may be candidates for a preventative maintenance treatment that temporarily halts or slows deterioration. These pavements are at a critical point in their service lives. The cost to administer an effective maintenance/rehabilitation strategy to these pavements is still relatively low. However, if continued deterioration is allowed, the cost to rehabilitate these pavements can increase significantly.

A large majority of the County's pavements – 73.4 percent - have a PCI score above 70 and are considered to be in Good or Satisfactory condition. Pavements that fall into these categories exhibit little or no distress and typically do not require rehabilitation. However, pavement sections in the low end of this range may be candidates for preventative maintenance.

Overall, the County's pavements have an average PCI score of 79.1 out of 100.

## 5.0 Future Condition

The MicroPAVER system has the ability to estimate future PCI scores for pavements. To do this, a pavement deterioration model was developed that reflects the conditions in York County. MDST constructed a pavement deterioration model based on the input of County staff and MDST experience. The model is shown in Figure 2 below.



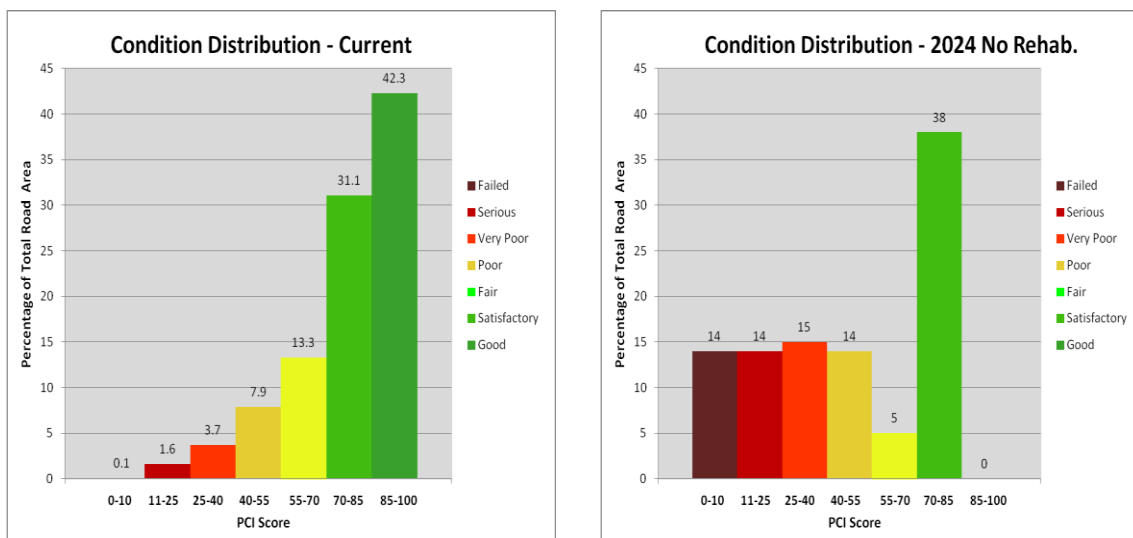
**Figure 2: Pavement Performance Model**

Immediately after construction (at age zero), the PCI of a pavement is 100. As the pavement ages and distresses develop, the PCI begins to decrease. After an initial period where some minor cracking may develop, the pavement deteriorates at a relatively slow rate (in this case until age 10 or so). After that time, the pavement deteriorates at a quicker rate and then declines steadily beginning at roughly age 17 years. Note that in this model, the PCI reaches the 50 to 55 range in about 18 to 20 years. At this time a pavement may be a candidate for major rehabilitation such as localized repair and overlay. The PCI passes below 20 at age 26, at which point a pavement may be a candidate for partial or full reconstruction.

This model was constructed based on feedback from County staff and MDST experience in the absence of construction history data. This model can be revised using the modeling functions in MicroPAVER as construction history data is entered into the

system and more inspection data becomes available. Also, the pavement network can be subdivided into groups of similar performing pavement types and performance curves can be developed for each group if sufficient data exists for modeling purposes.

Future PCI scores can be predicted after a performance model is developed and individual Segments are assigned to the model. The results of this analysis is shown in Figure 3. This Figure demonstrates the importance of continued investment in pavement maintenance, rehabilitation and reconstruction (MR&R) activities. The distribution on the left shows the current PCI of the County's road network (reproduced from Figure 1). The distribution on the right shows the anticipated condition of the County's road network if no MR&R expenditures are made. In the Current Condition Distribution, only 5.4 percent of the County paved road network is considered to be in Poor or worse condition. In the 2024 Distribution, the County can anticipate that 43 percent of the road network would be in Poor or worse condition in ten years time. Clearly this is a worst-case scenario, but it does illustrate the importance of ongoing expenditures on MR&R activities.



**Figure 3: Current PCI Distribution vs Anticipated "Do-Nothing" Distribution in 10 Years**

Note that the shape of the performance curve has an impact on the shape of the distribution on the right. The steeper the performance curve, the more quickly the condition distribution shifts to the left into less desirable condition categories. The reverse also hold true – if pavements have a longer life, then the shape of the condition distribution will stay more to the right.

## **6.0 Rehabilitation Program and Budget Analysis**

The MicroPAVER system was used to create a 10 year rehabilitation program given the anticipated funding levels over this time frame. The impact that implementation of this program would have on the long term condition of the network was also assessed.

### **6.1 Program Inputs**

Rehabilitation programs can be created in several ways in MicroPAVER. Various inputs can be set by the user so that the analysis best matches the policies and practices of the agency.

#### Method Used to Create Program

The "Critical PCI" method was used for the County. This is the classic approach in which the priority is to rehabilitate pavements with a relatively high PCI score with a relatively low cost rehabilitation strategy to extend pavement life, thus avoiding more costly rehabilitation work later. The Critical PCI was set to 55 for this analysis which is a typically used value. Pavements with a PCI score above 55 that are candidates for rehabilitation are inserted into the program first. Pavements with a PCI score less than 55 are scheduled only after all "above critical" pavements have been assigned to the program.

An alternate approach is the "Major M&R Based on Minimum Condition" method. This is a worst-first approach in which the pavements with the lowest PCI scores are selected in each year of the program until the available budget is exhausted.

#### Anticipated Budget

A budget stream must be supplied in order to create a rehabilitation program. County staff indicated that funds for pavement rehabilitation come primarily from the Critical Needs Resurfacing Program and the South Carolina C-Fund Gasoline Tax Program. The funding available through the Critical Needs Resurfacing Program is increasing at a rate of 8 percent annually. The funding available through South Carolina C-Fund Gas Tax Program is more variable but generally increasing. To estimate future C-Fund funding, linear regression analysis was performed using the C-Fund dollars available for County roads for the previous six years. The resulting equation was used to predict C-Fund dollars in the future. This analysis indicated that C-Fund dollars will increase at a rate of \$113,000 annually.

The Anticipated Budget for rehabilitation of County roads is shown in Table 1.

**Table 1**  
**Anticipated Ten Year Road Rehabilitation Budget**

Budget Year	Critical Needs Program	C-Fund Program County Road Portion	Total Budget
2015	\$1,704,800	\$1,186,381	\$2,891,181
2016	\$1,841,184	\$1,241,396	\$3,082,580
2017	\$1,988,479	\$1,354,174	\$3,342,653
2018	\$2,147,557	\$1,466,952	\$3,614,509
2019	\$2,319,362	\$1,579,730	\$3,899,092
2020	\$2,504,911	\$1,692,508	\$4,197,419
2021	\$2,705,304	\$1,805,286	\$4,510,590
2022	\$2,921,728	\$1,918,064	\$4,839,792
2023	\$3,155,466	\$2,030,842	\$5,186,308
2024	\$3,407,904	\$2,143,620	\$5,551,524

Also, the budget was configured so that a maximum of 90 percent of the available budget in any one year could be spent on Major Rehabilitation projects. The remaining 10 percent was made available for Global Rehabilitation (Surface Treatments/Thin Overlay) projects. While allocating funds for Major Rehabilitation is necessary, limiting the resources available for reconstruction is consistent with the principles of good pavement management since this maximizes the amount of work done on pavements whose life can be extended through lower cost rehabilitation options.

#### Rehabilitation Strategies and Unit Costs

A list of the rehabilitation strategies and their associated unit costs was supplied by County staff. This is reproduced below in Table 2. The approximate PCI range in which these strategies would typically be applied is also included in the Table.

## **6.2 Rehabilitation Program**

The 10 Year rehabilitation program created by MicroPAVER based on the above inputs is provided in Appendix A. This program is based strictly on the economic analysis performed in MicroPAVER. It does not take other factors into consideration that could impact the Segments chosen for inclusion in the program for any given year. Such factors include the need to coordinate with underground utility work, capacity issues, the desire to bundle work in a particular subdivision or areas, etc.



**Table 2**  
**Rehabilitation Activities and Unit Costs**

Rehabilitation Type	Rehabilitation Strategy	PCI Range	Unit Cost
Global - Preservation	Minimal Crack Seal & Patching with Triple Surface Treatment	60+	\$8/yd <sup>2</sup>
	Minimal Crack Seal & Patching with Thin Mix Overlay	50 to 60	\$10/yd <sup>2</sup>
Major - Resurfacing	Minimal Crack Seal & Patching with 1.5" AC Surface Course	40 to 50	\$15/yd <sup>2</sup>
	Moderate Road Repair with 1.5" AC Surface Course	30 to 40	\$20/yd <sup>2</sup>
Major - Reconstruction	8" Cement Reclamation with 1.5" AC Surface Course	20 to 30	\$24/yd <sup>2</sup>
	6" Full Depth AC Repair with 1.5" AC Surface Course	0 to 20	\$30/yd <sup>2</sup>

### **6.3 Budget Analysis Results**

Budget analysis was performed for a number of budget scenarios. The results are summarized in Table 3 and shown graphically in Figure 4. For the Anticipated Budget, the average PCI of the network decreases every year until the year 2020 and then begins to increase again. However, after 10 years the network average PCI of 73.3 is still less than the PCI in the first year of the program.

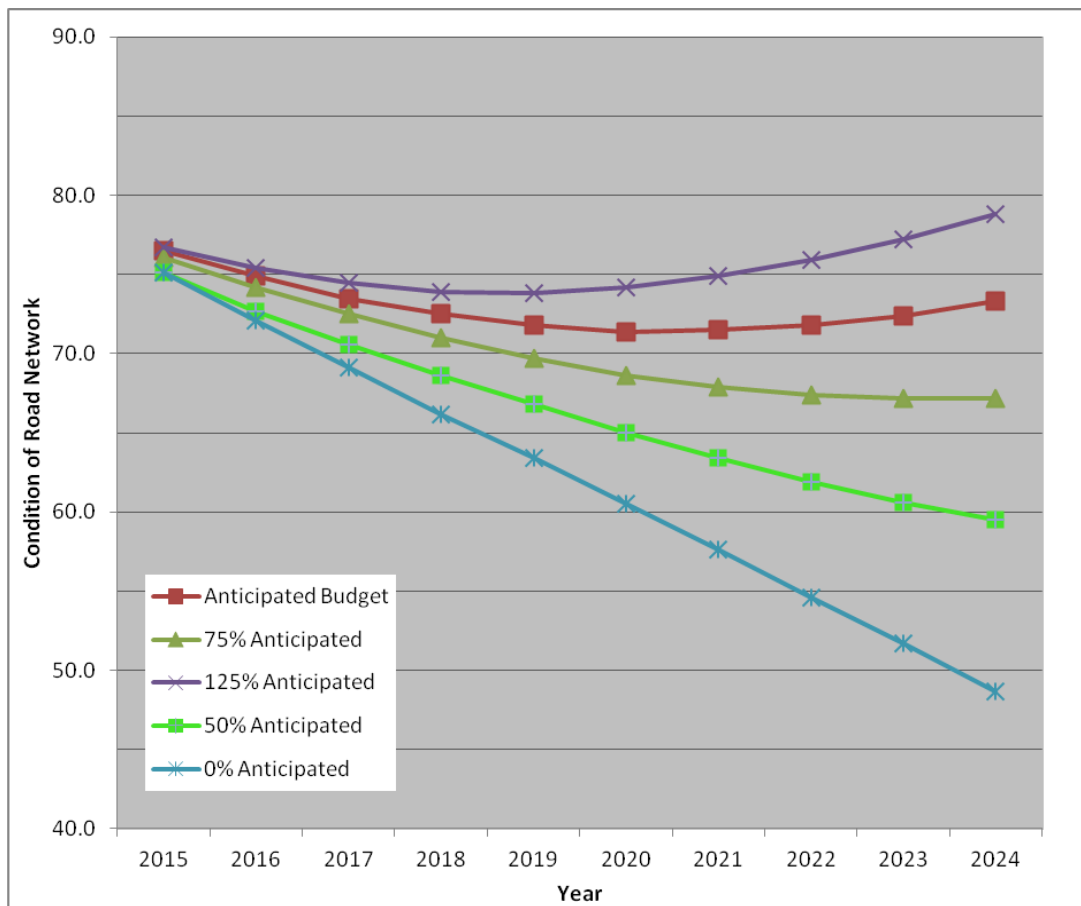
Analysis was performed to estimate the effect of other budgets on the network over ten years. The budgets analyzed were 125%, 75%, 50%, and 0% of the Anticipated Budget.

In the case of the 125% Budget, the network average PCI stops decreasing in 2019, one year before it does with the Anticipated Budget. After 10 years, the PCI is 78.8 which 7.5% higher than the PCI with the Anticipated Budget.

For the 75% Budget, the network average PCI does not dip and recover, but approaches a steady state of 67.2 after 10 years. For the 50% Budget, the network average PCI drops continuously to 59.5 after 10 years. Finally, in the case of the 0% (Do-Nothing) Budget, the network average PCI drops to 48.7 after 10 years.

**Table 3:**  
**Estimated Overall PCI for Various Funding Scenarios**

Year	Anticipated Budget	125% Anticipated	75% Anticipated	50% Anticipated	0% Anticipated
2015	76.5	76.7	76.1	75.1	75.1
2016	74.9	75.4	74.2	72.7	72.1
2017	73.5	74.5	72.5	70.6	69.1
2018	72.5	73.9	71.0	68.6	66.2
2019	71.8	73.8	69.7	66.8	63.4
2020	71.4	74.2	68.6	65.0	60.5
2021	71.5	74.9	67.9	63.4	57.6
2022	71.8	75.9	67.4	61.9	54.6
2023	72.4	77.2	67.2	60.6	51.7
2024	73.3	78.8	67.2	59.5	48.7



**Figure 4:**  
**Estimated Effect of Various Funding Scenarios on Overall Road Condition**

## **Appendix A**

### **MicroPAVER Generated Rehabilitation Program for the Anticipated Budget**

**York County**  
**Preventative Global Maintenance Program - Expected Budget**

<b>Year</b>	<b>Street_Name</b>	<b>From</b>	<b>To</b>	<b>Work Description</b>	<b>Cost</b>	<b>Annual Cost</b>
2015	Calview Ct	Echols Dr	Cul-de-Sac	(2) Triple Surface Seal	\$16,212.00	\$16,212.00
2015	Cobby Creek Ct	Royal Pines Dr	Cul-de-Sac	(2) Triple Surface Seal	\$10,005.00	\$26,217.00
2015	Flat Rock Rd	Owens Rd	Fayette Rd	(2) Triple Surface Seal	\$38,122.00	\$64,339.00
2015	Justice Blvd	Complex Ln	Cul-de-Sac	(2) Triple Surface Seal	\$12,535.00	\$76,874.00
2015	Kennedy Rd	Catoe Dr	North End	(2) Triple Surface Seal	\$4,045.00	\$80,919.00
2015	Little Dipper Dr	Cul-de-Sac	Forest Music Dr	(2) Triple Surface Seal	\$14,578.00	\$95,497.00
2015	Lower Assembly Dr	Sutton Rd N	Sophia Ct	(2) Triple Surface Seal	\$5,981.00	\$101,478.00
2015	Moore Rd	Daves Rd	Cameron Rd	(2) Triple Surface Seal	\$124,627.00	\$226,105.00
2015	Ohenry Ln	Central Av	Cul-de-Sac	(2) Triple Surface Seal	\$9,171.00	\$235,276.00
2015	Reece Cir	Irene St	West End	(2) Triple Surface Seal	\$6,598.00	\$241,874.00
2015	Rhododendron Pl	Poplin Pl	Lantana Ln	(1) Triple Surface Seal	\$23,183.00	\$265,057.00
2015	Solitude Ct	Rock Castle Dr	Cul-de-Sac	(2) Triple Surface Seal	\$8,010.00	\$273,067.00
2015	Stonehaven Ct	Holland Dr	West End	(2) Triple Surface Seal	\$10,854.00	\$283,921.00
2015	Warlick Meadow Ct	Kingshire Way	Cul-de-Sac	(2) Triple Surface Seal	\$5,032.00	\$288,953.00
2016	A C Ln	Bethel School Rd	Cul-de-Sac	(2) Triple Surface Seal	\$16,276.00	\$16,276.00
2016	Arnold Dr	Cul-de-Sac	Mack Dr	(2) Triple Surface Seal	\$5,815.00	\$22,091.00
2016	Centre Cir	Springhill Farm Rd	Springhill Farm Rd	(2) Triple Surface Seal	\$83,224.00	\$105,315.00
2016	Dunwoody Av	Henry St	Cul-de-Sac	(2) Triple Surface Seal	\$25,948.00	\$131,263.00
2016	Hitching Post Ln	Brookridge Dr	Ridgeway Ln	(2) Triple Surface Seal	\$33,776.00	\$165,039.00
2016	Red Oaks Dr	Mcconnells Hwy	Red Oaks Dr	(2) Triple Surface Seal	\$89,050.00	\$254,089.00
2016	Smythe Rd	Sutton Rd S	Sutton Rd S	(2) Triple Surface Seal	\$25,151.00	\$279,240.00
2016	Star Cluster Dr	Cul-de-Sac	Aquarius Dr	(2) Triple Surface Seal	\$4,675.00	\$283,915.00
2016	Walker Wade Rd	Hickory Grove Rd	Cul-de-Sac	(2) Triple Surface Seal	\$23,614.00	\$307,529.00
2017	Belle Meade Dr	Northway Dr	East End	(2) Triple Surface Seal	\$7,770.00	\$7,770.00
2017	Blanton Rd	Mcconnells Hwy W	Morningview Rd	(2) Triple Surface Seal	\$207,333.00	\$215,103.00
2017	Kingshire Way	Kilbeggan Dr	Cul-de-Sac	(2) Triple Surface Seal	\$3,485.00	\$218,588.00
2017	Love Valley Rd	Gettysburg Dr	End County Mainteance	(2) Triple Surface Seal	\$29,566.00	\$248,154.00
2017	Masters Dr	Mt Gallant Rd	Cul-de-Sac	(2) Triple Surface Seal	\$25,337.00	\$273,491.00
2017	Misty Hill Rd	Cul-de-Sac	Ormand Rd	(2) Triple Surface Seal	\$24,249.00	\$297,740.00
2017	Oak Park Rd	Oak Park Rd	Mcconnells Hwy	(2) Triple Surface Seal	\$36,106.00	\$333,846.00
2018	Barney Rhett Cir	Homestead Rd	Twin Lakes Rd	(2) Triple Surface Seal	\$37,038.00	\$37,038.00
2018	Bush Rd	Highway 55 W	End AC	(2) Triple Surface Seal	\$41,812.00	\$78,850.00

**York County**  
**Preventative Global Maintenance Program - Expected Budget**

2018	Creekstone Ln	Kingsburry Rd	Cul-de-Sac	(2) Triple Surface Seal	\$55,862.00	\$134,712.00
2018	Crooked Pine Ct	Bent Pine Dr	South End	(2) Triple Surface Seal	\$6,129.00	\$140,841.00
2018	Doncaster Dr	Twin Lakes Rd	Cul-de-Sac	(2) Triple Surface Seal	\$18,946.00	\$159,787.00
2018	Drew Av	Sharon Lee Av	Choate Av	(2) Triple Surface Seal	\$24,241.00	\$184,028.00
2018	Flying Eagle Dr	Faulkner Rd	Cul-de-Sac	(2) Triple Surface Seal	\$20,755.00	\$204,783.00
2018	Grove Tree Ln	Morning Dove Way	Leesburg Dr	(2) Triple Surface Seal	\$16,956.00	\$221,739.00
2018	Laurelwood Dr	Highway 55 W	Highway 55 W	(2) Triple Surface Seal	\$55,353.00	\$277,092.00
2018	Mallard Creek Dr	Blue Wing Ct	Cul-de-Sac	(2) Triple Surface Seal	\$15,977.00	\$293,069.00
2018	Mary Ellen Dr	Pleasant Rd	Cul-de-Sac	(2) Triple Surface Seal	\$48,413.00	\$341,482.00
2018	Mitchum Rd	Lesslie Hwy	Cul-de-Sac	(2) Triple Surface Seal	\$15,379.00	\$356,861.00
2018	Nottingham Knl	Chesterfield Canal	Cul-de-Sac	(2) Triple Surface Seal	\$3,079.00	\$359,940.00
2019	Beacon Knoll Ln	Pleasant Rd	Pleasant Lake Clb	(2) Triple Surface Seal	\$38,822.00	\$38,822.00
2019	Beacon Knoll Ln	Pleasant Lake Clb	Pleasant Lake Clb	(2) Triple Surface Seal	\$46,520.00	\$85,342.00
2019	Bethel Hill Rd	Start County Maintenance	Cul-de-Sac	(2) Triple Surface Seal	\$37,731.00	\$123,073.00
2019	Cardinal Hill Dr	Eastview Rd	Eastview Rd	(2) Triple Surface Seal	\$25,669.00	\$148,742.00
2019	Chapman Cir	Gordon Rd	Gordon Rd	(2) Triple Surface Seal	\$110,859.00	\$259,601.00
2019	Farm Branch Dr	Old Springs Rd	Elmhurst Dr	(2) Triple Surface Seal	\$23,667.00	\$283,268.00
2019	Fenwick Ct	Poplar Forest Rdg	Dunmore Ct	(2) Triple Surface Seal	\$23,770.00	\$307,038.00
2019	Iron Works Dr	Irish Green Dr	Highway 274	(2) Triple Surface Seal	\$29,840.00	\$336,878.00
2019	Kingshire Way	Highway 274	Kilbeggan D	(2) Triple Surface Seal	\$24,338.00	\$361,216.00
2019	Sunledge Ter	Canebrook Gln	Bethelfields Trc	(2) Triple Surface Seal	\$24,991.00	\$386,207.00
2019	Vine Wood Ct	Sunnywood Rd	Cul-de-Sac	(2) Triple Surface Seal	\$3,602.00	\$389,809.00
2020	Bald Cypress Dr	Old Limestone Rd W	Cul-de-Sac	(2) Triple Surface Seal	\$27,875.00	\$27,875.00
2020	Border Rd E	RR Xing	Saluda Rd	(2) Triple Surface Seal	\$69,805.00	\$97,680.00
2020	Brian Kelly Ln	Harris Rd	West End	(2) Triple Surface Seal	\$21,614.00	\$119,294.00
2020	Canvas Av	Mallard Creek Dr	Cul-de-Sac	(2) Triple Surface Seal	\$37,124.00	\$156,418.00
2020	Dazend Tr	Sunnyside Dr	Cul-de-Sac	(2) Triple Surface Seal	\$12,830.00	\$169,248.00
2020	Dove Tree Ln	Highway 324	Tree Line Dr	(2) Triple Surface Seal	\$20,207.00	\$189,455.00
2020	Elmhurst Dr	Farm Branch Dr	Cul-de-Sac	(2) Triple Surface Seal	\$29,690.00	\$219,145.00
2020	Loggen Rd	Turkey Creek Rd	Cul-de-Sac	(2) Triple Surface Seal	\$32,414.00	\$251,559.00
2020	Louie Rd	Turkey Farm Rd	South End	(2) Triple Surface Seal	\$23,457.00	\$275,016.00
2020	Mariners Bluff Rd	River Stone Ct	Cul-de-Sac	(2) Triple Surface Seal	\$27,588.00	\$302,604.00
2020	Rolling Park Ln	Elmhurst Dr	Cul-de-Sac	(2) Triple Surface Seal	\$58,740.00	\$361,344.00

**York County**  
**Preventative Global Maintenance Program - Expected Budget**

2020	Sethwood Dr	Cul-de-Sac	Cul-de-Sac	(2) Triple Surface Seal	\$19,443.00	\$380,787.00
2020	Silver Arrow Ct	Rolling Park Ln	Cul-de-Sac	(2) Triple Surface Seal	\$18,263.00	\$399,050.00
2020	Silver Ct	Gentry Ln	Cul-de-Sac	(2) Triple Surface Seal	\$7,264.00	\$406,314.00
2020	South Winds Ct	Springwinds Dr	Cul-de-Sac	(2) Triple Surface Seal	\$11,963.00	\$418,277.00
2021	Alfred Ln	Sutton Rd N	Sam Smith Rd	(2) Triple Surface Seal	\$48,370.00	\$48,370.00
2021	Beaver Spring Ln	Cross Rd	Cul-de-Sac	(2) Triple Surface Seal	\$14,126.00	\$62,496.00
2021	Blue Wing Ct	Mallard Creek Dr	Cul-de-Sac	(2) Triple Surface Seal	\$5,306.00	\$67,802.00
2021	Breckenridge Pl	Crystal Lakes Dr	Challis Ct	(2) Triple Surface Seal	\$22,635.00	\$90,437.00
2021	Brown Pelican Ct	Cul-de-Sac	Flamingo Rd	(2) Triple Surface Seal	\$39,903.00	\$130,340.00
2021	Caroline Way	Holbrook Rd	Cul-de-Sac	(2) Triple Surface Seal	\$20,089.00	\$150,429.00
2021	Clearview Rd	Bowater Rd	Blue Heron Dr	(2) Triple Surface Seal	\$19,286.00	\$169,715.00
2021	Coolwater Ct	Elmhurst Dr	Cul-de-Sac	(2) Triple Surface Seal	\$11,577.00	\$181,292.00
2021	Cumberland Ct	Twin Lakes Rd	Cul-de-Sac	(2) Triple Surface Seal	\$11,121.00	\$192,413.00
2021	Don Mccarter Dr	Bethel Hill Rd	Cul-de-Sac	(2) Triple Surface Seal	\$44,094.00	\$236,507.00
2021	Elks Park Rd	India Hook Rd	Cul-de-Sac	(2) Triple Surface Seal	\$68,667.00	\$305,174.00
2021	Enon Ct	Worsham Ln	Cul-de-Sac	(2) Triple Surface Seal	\$13,158.00	\$318,332.00
2021	Fox Den Ct	Carved Oak Ct	Cul-de-Sac	(2) Triple Surface Seal	\$3,975.00	\$322,307.00
2021	Hickory Hollow Dr	Highway 324	Cul-de-Sac	(2) Triple Surface Seal	\$19,562.00	\$341,869.00
2021	Hickory Mill Ct	Bayberry Pl	Cul-de-Sac	(2) Triple Surface Seal	\$3,809.00	\$345,678.00
2021	Lexington Green Dr	Davidson Rd	Cul-de-Sac	(2) Triple Surface Seal	\$25,454.00	\$371,132.00
2021	Raven Cliff Ct	Allison Bluff Tr	Cul-de-Sac	(2) Triple Surface Seal	\$2,957.00	\$374,089.00
2021	Timber Creek Dr	Cul-de-Sac	Cul-de-Sac	(2) Triple Surface Seal	\$75,615.00	\$449,704.00
2022	Blue Jay Pass	Nestling Ln	Altura Rd	(2) Triple Surface Seal	\$23,033.00	\$23,033.00
2022	Briarwood Dr	Colleton Meadow Dr	Cedar Hill Ln	(2) Triple Surface Seal	\$26,707.00	\$49,740.00
2022	Cedar Hill Ln	Cul-de-Sac	Cul-de-Sac	(2) Triple Surface Seal	\$26,883.00	\$76,623.00
2022	Clearcreek Dr	Sherrer Rd	Tidewood Ln	(2) Triple Surface Seal	\$73,728.00	\$150,351.00
2022	Dolly Rose Dr	Shiloh Rd N	Cul-de-Sac	(2) Triple Surface Seal	\$22,766.00	\$173,117.00
2022	Flamingo Rd	Roadrunner Rd	Cul-de-Sac	(2) Triple Surface Seal	\$35,380.00	\$208,497.00
2022	Hidden Oaks Ln	Stateline Rd	Cul-de-Sac	(2) Triple Surface Seal	\$23,638.00	\$232,135.00
2022	Meadowind Ct	Willow Pond Rd	Cul-de-Sac	(2) Triple Surface Seal	\$20,844.00	\$252,979.00
2022	Paul Ford Rd	AC Change	Cul-de-Sac	(2) Triple Surface Seal	\$22,732.00	\$275,711.00
2022	Pine Moss Ln	Fawns Glen Pl	Pine Moss Ln	(2) Triple Surface Seal	\$114,543.00	\$390,254.00
2022	Summer Spring Ln	Felix Ln	Cul-de-Sac	(2) Triple Surface Seal	\$19,404.00	\$409,658.00

**York County**  
**Preventative Global Maintenance Program - Expected Budget**

2022	Sunset Rose Dr	Coralstone Dr	Cul-de-Sac	(2) Triple Surface Seal	\$49,622.00	\$459,280.00
2022	Wildwood Dr	Davis Farm Rd	Cul-de-Sac	(2) Triple Surface Seal	\$24,655.00	\$483,935.00
2023	Bonita Rd	Allison Creek Rd	Cul-de-Sac	(2) Triple Surface Seal	\$40,609.00	\$40,609.00
2023	Branham Rd	Lesslie Hwy	Cul-de-Sac	(2) Triple Surface Seal	\$17,533.00	\$58,142.00
2023	Brookfield Ln	Glenview Ln	Cul-de-Sac	(2) Triple Surface Seal	\$40,805.00	\$98,947.00
2023	Cool Creek Dr	Cul-de-Sac	Winding Branch Rd	(2) Triple Surface Seal	\$16,898.00	\$115,845.00
2023	Haney Rd	Country Pine Ln	Holcombe Rd	(2) Triple Surface Seal	\$21,460.00	\$137,305.00
2023	Harmony Glen Cir	Harmony Rd	Ole Simpson Pl	(2) Triple Surface Seal	\$56,919.00	\$194,224.00
2023	Hope Dr	Reservation Rd	Cul-de-Sac	(2) Triple Surface Seal	\$25,712.00	\$219,936.00
2023	Lake Wylie Rd	Cobb Aly	Commodore Pl	(2) Triple Surface Seal	\$43,005.00	\$262,941.00
2023	Post Oak Ln	Country Oaks Dr	Cul-de-Sac	(2) Triple Surface Seal	\$58,956.00	\$321,897.00
2023	Rhododendron Pl	Lantana Ln	Hydrangea Dr	(2) Triple Surface Seal	\$7,088.00	\$328,985.00
2023	Silver Leaf Cir	Silver Ln	Silver Ln	(2) Triple Surface Seal	\$33,541.00	\$362,526.00
2023	Vernsdale Rd	Start County Maintenance	South End	(2) Triple Surface Seal	\$33,697.00	\$396,223.00
2023	Whispering Woods Rd	Billy Wilson Rd	Cul-de-Sac	(2) Triple Surface Seal	\$33,501.00	\$429,724.00
2023	Will Jones Cir	Anderson Rd S	Will Jones Cir	(2) Triple Surface Seal	\$65,344.00	\$495,068.00
2023	Woodshire Ct	Clubside Dr	Cul-de-Sac	(2) Triple Surface Seal	\$22,998.00	\$518,066.00
2024	Allison Bluff Tr	Woods Ferry Ln	Cul-de-Sac	(2) Triple Surface Seal	\$24,162.00	\$24,162.00
2024	Autumn Cove Dr	Charlotte Hwy	Springhouse Pl	(2) Triple Surface Seal	\$15,077.00	\$39,239.00
2024	Blossom Dr	Nations Ford Rd	Quail Dr	(2) Triple Surface Seal	\$25,792.00	\$65,031.00
2024	Brian Rd	Lawrence Rd	Lawrence Rd	(2) Triple Surface Seal	\$125,723.00	\$190,754.00
2024	Cape Ct	Clearview Rd	Cul-de-Sac	(2) Triple Surface Seal	\$5,411.00	\$196,165.00
2024	Carillon Ct	Mt Gallant Rd W	Cul-de-Sac	(2) Triple Surface Seal	\$33,916.00	\$230,081.00
2024	Carrollbrook Dr	Mccully Creek Dr	Cul-de-Sac	(1) Triple Surface Seal	\$27,980.00	\$258,061.00
2024	Clark Elliott St	Sutton Rd N	Nations Commons St	(2) Triple Surface Seal	\$19,242.00	\$277,303.00
2024	Cornwell Ct	Broach Dr	Cul-de-Sac	(2) Triple Surface Seal	\$13,628.00	\$290,931.00
2024	Dorset Downs	Cul-de-Sac	Cranborne Chase	(2) Triple Surface Seal	\$2,280.00	\$293,211.00
2024	Eva Ct	Hickory Heights Rd	Cul-de-Sac	(2) Triple Surface Seal	\$28,744.00	\$321,955.00
2024	Golden Bell Dr	Masters Dr	Cul-de-Sac	(2) Triple Surface Seal	\$22,889.00	\$344,844.00
2024	Grey Fox Run	Cul-de-Sac	Cul-de-Sac	(2) Triple Surface Seal	\$25,390.00	\$370,234.00
2024	Heritage Pl	Old Friendship Rd	South End	(2) Triple Surface Seal	\$16,939.00	\$387,173.00
2024	Inland Cove Ct	Landing Pointe Dr	Cul-de-Sac	(2) Triple Surface Seal	\$12,316.00	\$399,489.00
2024	Lapis Ct	Cul-de-Sac	Sunset Rose Dr	(2) Triple Surface Seal	\$9,177.00	\$408,666.00

**York County**  
**Preventative Global Maintenance Program - Expected Budget**

2024	Leatherwood Ct	Falls Rd	Cul-de-Sac	(2) Triple Surface Seal	\$40,922.00	\$449,588.00
2024	Little Branch Dr	Paraham Rd S	AC Change	(2) Triple Surface Seal	\$13,980.00	\$463,568.00
2024	Rustling Winds Dr	Cul-de-Sac	Peaceful Creek Dr	(2) Triple Surface Seal	\$16,091.00	\$479,659.00
2024	Sapphire Ln	Platinum Dr	Onyx Rdg	(1) Triple Surface Seal	\$17,569.00	\$497,228.00
2024	Saratoga Dr	Winding Path Rd	Valley Forge Rd	(2) Triple Surface Seal	\$13,706.00	\$510,934.00
2024	Sophia Ct	Lower Assembly Dr	Lower Assembly Dr	(2) Triple Surface Seal	\$15,027.00	\$525,961.00
2024	Tamarack Dr	Leland Ct	Little Branch Dr	(2) Triple Surface Seal	\$19,541.00	\$545,502.00
2024	Victorian Way	Market St	Third Baxter St	(2) Triple Surface Seal	\$9,123.00	\$554,625.00



York County  
Major Rehabilitation Program - Expected Budget

Year	Street Name	From	To	Strategy	Project Cost	Annual Cost
2015	Admirals Way	Green Pond Rd	Cul-de-Sac	CS,Patch & O/L	99,969	99,969
2015	Arrowwood Ln	Tealwood Dr	AC Change	CS,Patch & O/L	48,276	148,245
2015	Autumnwood Dr	Saluda Rd	Cul-de-Sac	CS,Patch & O/L	73,370	221,615
2015	Aziza Rd	Gordon Rd	Cul-de-Sac	CS,Patch & O/L	48,240	269,855
2015	Banner Ln	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	41,681	311,536
2015	Baytree Ct	Banner Ln	Cul-de-Sac	CS,Patch & O/L	12,375	323,911
2015	Beechnut Ct	Zimmerman Dr	Cul-de-Sac	CS,Patch &Thin Mix O/L	3,205	327,116
2015	Bethesda Rd	Mcconnells Hwy	Howell Rd	CS,Patch & O/L	49,489	376,605
2015	Blackbird Dr	Field Swallow Way	Cul-de-Sac	CS,Patch & O/L	45,205	421,810
2015	Carodon Ct	Robbett Ct	Cul-de-Sac	CS,Patch & O/L	14,863	436,673
2015	Carrollton Pl	Peachtree Rd	Cul-de-Sac	CS,Patch & O/L	45,778	482,451
2015	Catherine Dr	Calliewood Dr	Cul-de-Sac	CS,Patch & O/L	12,525	494,976
2015	Cedarwood Ln	Norman Dr	Cul-de-Sac	CS,Patch & O/L	63,922	558,898
2015	Chad Wesley Rd	Red River Rd	Cul-de-Sac	CS,Patch & O/L	31,596	590,494
2015	Channing Park Way	AC Change	Ashworth Dr	CS,Patch & O/L	27,445	617,939
2015	Clematis Tr	Acacia Rd	Cul-de-Sac	CS,Patch & O/L	24,469	642,408
2015	Conifer Ct	Sagrada Dr	Cul-de-Sac	CS,Patch & O/L	14,733	657,141
2015	Country Oaks Dr	Old Rawlinson Rd	Cul-de-Sac	CS,Patch & O/L	166,726	823,867
2015	Donegal Dr	Taryn Ln	Irish Green Dr	CS,Patch & O/L	52,318	876,185
2015	Fifth Baxter Xing	Hugh St	Sutton Rd N	CS,Patch & O/L	23,797	899,982
2015	Flintlock Dr	Dr Nichols Rd	Islamville Way	CS,Patch & O/L	126,602	1,026,584
2015	Forest Creek Dr	Brandon Lee Ct	Cul-de-Sac	CS,Patch & O/L	30,457	1,057,041
2015	Gillcreek Ct	Montague Rd	Cul-de-Sac	CS,Patch & O/L	13,484	1,070,525
2015	Givens Rd	Horse Rd	East End	CS,Patch & O/L	145,958	1,216,483
2015	Haley Ct	Saint George Rd	Cul-de-Sac	CS,Patch & O/L	4,178	1,220,661
2015	Hoyles Dr	Saluda Rd	West End	CS,Patch & O/L	29,135	1,249,796
2015	Johnny Boyd Dr	Hovis Rd	Lyle Boyd Rd	CS,Patch & O/L	34,469	1,284,265
2015	Knightsbridge Rd	Gold Hill Rd	Cheval Dr E	CS,Patch & O/L	63,196	1,347,461
2015	Lake Wylie Dr	Bay Ridge Rd	Joslin Park Rd	CS,Patch & O/L	142,904	1,490,365
2015	Landing Pointe Dr	Highway 274	Inland Cove Ct	CS,Patch & O/L	22,605	1,512,970
2015	Larchwood Rd	Dodge Rd	Brushwood Dr	CS,Patch & O/L	40,120	1,553,090

York County  
Major Rehabilitation Program - Expected Budget

2015	Lawonna Dr	Highway 324	Cul-de-Sac	CS,Patch & O/L	54,889	1,607,979
2015	Liberty Hill Rd E	AC Change	AC Change	CS,Patch & O/L	50,067	1,658,046
2015	Little Branch Dr	AC Change	AC Change	CS,Patch & O/L	15,468	1,673,514
2015	Millbank Ct	Saint George Rd	Cul-de-Sac	CS,Patch & O/L	7,154	1,680,668
2015	Missi Ln	Leela Palace Way	Cul-de-Sac	CS,Patch & O/L	17,921	1,698,589
2015	Morning Star Rd	Summerfield Ct	Catawba Crest Ln	CS,Patch & O/L	51,503	1,750,092
2015	Muldoon Ln	Grandview Rd S	Cul-de-Sac	CS,Patch & O/L	35,351	1,785,443
2015	Osteen Rd	York Hwy	Will Rd	CS,Patch & O/L	112,424	1,897,867
2015	Pepperwood Pl	Springhouse Pl	Cul-de-Sac	CS,Patch & O/L	31,318	1,929,185
2015	Perla Rd	Daves Rd	Gordon Rd	CS,Patch & O/L	86,873	2,016,058
2015	Poplar Xing	Osteen Rd	Cul-de-Sac	CS,Patch & O/L	72,745	2,088,803
2015	Saint Ives Ct	Hemmingway Ln	Cul-de-Sac	CS,Patch & O/L	6,032	2,094,835
2015	Sentinal Oak Dr	Cul-de-Sac	Lake Valley Rd	CS,Patch & O/L	29,465	2,124,300
2015	Sexton Rd	Sharon Rd	South End	CS,Patch & O/L	70,357	2,194,657
2015	Spandril Ln	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	33,001	2,227,658
2015	Sunnyside Dr	Country Trail Rd	Cul-de-Sac	CS,Patch & O/L	54,449	2,282,107
2015	Vander Lakes Dr	Glen Hollow Dr	Cul-de-Sac	CS,Patch & O/L	29,018	2,311,125
2015	Vintage Ln	Barringer Rd	Barringer Rd	CS,Patch & O/L	101,219	2,412,344
2015	Whirlaway Ct	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	34,028	2,446,372
2015	Wigmore Ln	Mt Gallant Rd	Cul-de-Sac	CS,Patch & O/L	30,053	2,476,425
2015	Woodfield Rd	Eastview Rd	Cul-de-Sac	CS,Patch & O/L	66,132	2,542,557
2015	Woody Ln	Dr Nichols Rd	Cul-de-Sac	CS,Patch & O/L	59,113	2,601,670
2016	Adair Marble St	Vandora Springs Rd	Cul-de-Sac	CS,Patch & O/L	12,594	12,594
2016	Adlee Ct	Wesley Woods Dr	Cul-de-Sac	CS,Patch & O/L	5,768	18,362
2016	Albany Park Dr	Convention Dr	Cul-de-Sac	CS,Patch & O/L	34,193	52,555
2016	Ashworth Dr	Channing Park Way	Cul-de-Sac	CS,Patch & O/L	15,982	68,537
2016	Balkan Dr	Agean Ln	Cul-de-Sac	CS,Patch & O/L	37,141	105,678
2016	Banbury Ln	Hilldale Dr	Ferncliff Rd	CS,Patch & O/L	24,506	130,184
2016	Bethelfields Trc	Hands Mill Hwy	Sunledge Ter	CS,Patch & O/L	49,539	179,723
2016	Big Oak Ln	Weatherwood St	Grayson Rd	CS,Patch & O/L	95,991	275,714
2016	Bonum Rd	Duck Haven Ln	Cul-de-Sac	CS,Patch & O/L	177,755	453,469
2016	Bowling Green Dr	Cul-de-Sac	Crestland Dr	CS,Patch & O/L	42,618	496,087

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2016	Brittany Ln	Wimbleton Woods Dr	Sam Smith Rd	CS,Patch & O/L	20,260	516,347
2016	Brookhollow Dr	York Hwy	Chipmeadow Ln	CS,Patch & O/L	12,876	529,223
2016	Burns Rd	Mcgill Rd	AC Change	CS,Patch & O/L	117,568	646,791
2016	Caliper Pl	Cul-de-Sac	Vandora Springs Rd	CS,Patch & O/L	19,990	666,781
2016	Canebrook Gln	Ivy Creek Frd	Sunledge Ter	CS,Patch & O/L	74,428	741,209
2016	Chipstile Turn	Wimbledon Ln	Cul-de-Sac	CS,Patch & O/L	7,244	748,453
2016	Choate Av	Sam Smith Rd	Faison Av	CS,Patch & O/L	53,938	802,391
2016	Chris Ct	Chadwick Ct	Cul-de-Sac	CS,Patch & O/L	19,572	821,963
2016	Christine Way	Henson Ln	Gradys Ground Dr	CS,Patch & O/L	21,750	843,713
2016	Christopher Ridge Ct	Carrollton Pl	Tipperary Rd	CS,Patch & O/L	23,624	867,337
2016	Connors Ln	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	34,809	902,146
2016	Coventry Ln	Twin Lakes Rd	Arbor Ct	CS,Patch & O/L	33,026	935,172
2016	Cranborne Chase	Bailiwyck Grn	Gringley Hill Rd	CS,Patch & O/L	6,768	941,940
2016	Crystal Ridge Dr	Holland Rd	Cul-de-Sac	CS,Patch & O/L	26,613	968,553
2016	Daventry Ct	Castlebury Ct	Cul-de-Sac	CS,Patch & O/L	40,214	1,008,767
2016	Davidson Ridge Rd	Marie Ct	Marney Ln	CS,Patch & O/L	23,575	1,032,342
2016	Desert Rose Ct	Leela Palace Way	Cul-de-Sac	CS,Patch & O/L	9,679	1,042,021
2016	Ervin St	Jackson Heights Rd	Roosevelt St	CS,Patch & O/L	17,074	1,059,095
2016	Farmlake Ln	Millbrook Ln	Carowood Dr	CS,Patch & O/L	28,049	1,087,144
2016	Farrier Ln	Little Branch Dr	Cul-de-Sac	CS,Patch & O/L	30,163	1,117,307
2016	Fieldstone Dr	Neely Store Rd	Cul-de-Sac	CS,Patch & O/L	63,794	1,181,101
2016	Golden Pond Dr	Hands Mill Hwy	Cul-de-Sac	CS,Patch & O/L	15,965	1,197,066
2016	Gradys Ground Dr	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	109,081	1,306,147
2016	Greystone Cir	Harmony Rd	Donnybrook Rd	CS,Patch & O/L	94,642	1,400,789
2016	Haymarket Pl	Saint George Rd	Cul-de-Sac	CS,Patch & O/L	34,614	1,435,403
2016	Hempstead Rd	Malvern Rd	Poinsett Dr	CS,Patch & O/L	15,210	1,450,613
2016	High Rock Pt	Cul-de-Sac	Felix Ln	CS,Patch & O/L	19,362	1,469,975
2016	Hoodtown Rd	AC Change	End County Maintenance	CS,Patch & O/L	41,775	1,511,750
2016	Horse Shoe Tr	Saddle Ridge Rd	Cul-de-Sac	CS,Patch & O/L	16,887	1,528,637
2016	Impulse Ln	Russell Rd	Cul-de-Sac	CS,Patch & O/L	47,762	1,576,399
2016	Joseph Ct	Laurel Glen Dr	Cul-de-Sac	CS,Patch & O/L	35,307	1,611,706
2016	Kays Dr	Spicewood Dr	Cul-de-Sac	CS,Patch & O/L	89,425	1,701,131

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2016	Knighton Hill Rd	Devonshire Dr	Devonshire Dr	CS,Patch & O/L	54,990	1,756,121
2016	Lafinca Ct	Cul-de-Sac	Laurel Meadow Dr	CS,Patch & O/L	5,979	1,762,100
2016	Lesslie Dale Rd	Schoolside Dr	Cul-de-Sac	CS,Patch & O/L	55,377	1,817,477
2016	Logan Pl	Longlea Dr	Cul-de-Sac	CS,Patch & O/L	22,705	1,840,182
2016	Nautilus Rd	Foxridge Rd	Cul-de-Sac	CS,Patch & O/L	31,396	1,871,578
2016	Patrick Ct	Garrett Ln	Cul-de-Sac	CS,Patch & O/L	5,033	1,876,611
2016	Patterson Rd	Highway 161 S	AC Change	CS,Patch & O/L	81,783	1,958,394
2016	Paul Ford Rd	Highway 55 E	AC Change	CS,Patch & O/L	30,207	1,988,601
2016	Pleasant Colony Ln	Silver Charm Ln	Whirlaway Ct	CS,Patch & O/L	60,320	2,048,921
2016	Ridgewood Dr	Ridgewood Drive North	Cul-de-Sac	CS,Patch & O/L	11,794	2,060,715
2016	Ridgewood Drive North	Ridgewood Dr	Cul-de-Sac	CS,Patch & O/L	20,979	2,081,694
2016	Rippling Creek Dr	Paraham Rd S	Peaceful Creek Dr	CS,Patch & O/L	69,879	2,151,573
2016	Rocky Ridge Ct	Little Daisy Ln	Cul-de-Sac	CS,Patch & O/L	20,411	2,171,984
2016	Rue De Ville	Hillcroft Pl	Ragin Ln	CS,Patch & O/L	34,235	2,206,219
2016	Saddle Ridge Rd	Horse Shoe Tr	Cul-de-Sac	CS,Patch & O/L	42,351	2,248,570
2016	Sedona Pl	Cul-de-Sac	Tanzanite Cir	CS,Patch & O/L	9,504	2,258,074
2016	Serendipity Dr	Beacon Knoll Ln	Cul-de-Sac	CS,Patch & O/L	15,045	2,273,119
2016	Shadow Moss Cir	Cul-de-Sac	Sunset Rose Dr	CS,Patch & O/L	7,295	2,280,414
2016	Springhouse Pl	Pepperwood Pl	Autumn Cove Dr	CS,Patch & O/L	45,190	2,325,604
2016	Starboard Rdg	India Hook Rd	Sunset Point Dr	CS,Patch & O/L	9,459	2,335,063
2016	Stonebriar Ln	Riddle Mill Rd	Cul-de-Sac	CS,Patch & O/L	44,161	2,379,224
2016	Sunset Point Dr	Starboard Rdg	Bitter Brook Ct	CS,Patch & O/L	22,805	2,402,029
2016	Thorn Ridge Ln	Landing Pointe Dr	Cul-de-Sac	CS,Patch & O/L	34,756	2,436,785
2016	Thorneapple Ct	Fernledge Dr	Cul-de-Sac	CS,Patch & O/L	10,324	2,447,109
2016	Valley View Dr	Stateline Rd	Cul-de-Sac	CS,Patch & O/L	85,036	2,532,145
2016	Wagon Tr	Walnut Ridge Rd	Cul-de-Sac	CS,Patch & O/L	9,319	2,541,464
2016	Whiskery Ct	Riva Ridge Ct	Cul-de-Sac	CS,Patch & O/L	55,294	2,596,758
2016	Whitehead Ct	Cheval Dr E	Cul-de-Sac	CS,Patch & O/L	20,711	2,617,469
2016	Wimbledon Woods Dr	Sutton Rd N	Cul-de-Sac	CS,Patch & O/L	84,428	2,701,897
2016	Windy Run Ln	Paraham Rd S	Deer Meadow Rd	CS,Patch & O/L	41,516	2,743,413
2016	Woodpecker Dr	Field Swallow Way	Cul-de-Sac	CS,Patch & O/L	29,108	2,772,521
2017	Acre Ct	Adicks Ct	Cul-de-Sac	CS,Patch & O/L	28,296	28,296

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2017	Basswood Ct	Montague Rd	Cul-de-Sac	CS,Patch & O/L	18,554	46,850
2017	Big Branch Ct	Old Cedar Cir	Timber Creek Dr	CS,Patch & O/L	24,359	71,209
2017	Birmingham Ct	Doncaster Dr	Cul-de-Sac	CS,Patch & O/L	5,578	76,787
2017	Castle Pines Dr	Trevor Ln	Cul-de-Sac	CS,Patch & O/L	40,745	117,532
2017	Cozy Cove Dr	Valelake Rd	Cul-de-Sac	CS,Patch & O/L	66,573	184,105
2017	Creekstone Ln	Kingsburry Rd	Cul-de-Sac	CS,Patch & O/L	95,290	279,395
2017	Crestmont Dr	Steele Creek Dr	Lakemont Blvd	CS,Patch & O/L	85,896	365,291
2017	Davidson Ridge Rd	Marney Ln	Cul-de-Sac	CS,Patch & O/L	45,882	411,173
2017	Day Lily Ln	Reservation Rd	Cul-de-Sac	CS,Patch & O/L	23,109	434,282
2017	Echols Dr	Ramsey Rd	Cul-de_Sac	CS,Patch & O/L	19,639	453,921
2017	Evergreen Rd	Willow Cove Rd	Cul-de-Sac	CS,Patch & O/L	27,565	481,486
2017	Flat Rock Rd	Fayette Rd	Howell Rd	CS,Patch & O/L	100,190	581,676
2017	Frog Pond Dr	Frog Pond Dr	Cul-de-Sac	CS,Patch & O/L	51,135	632,811
2017	Front St	Birkshire Hts	Richards Xing	CS,Patch & O/L	26,934	659,745
2017	Gilead Dr	Shiloh Rd S	Cul-de-Sac	CS,Patch & O/L	28,584	688,329
2017	Hamilton Place Dr	Hamilton Forest Dr	Cul-de-Sac	CS,Patch & O/L	34,903	723,232
2017	Lake Wylie Dr	Boatshore Rd	Bay Ridge Rd	CS,Patch & O/L	168,202	891,434
2017	Landing Pointe Dr	Kingsmill Ln	Mineral Springs Rd	CS,Patch & O/L	40,761	932,195
2017	Lands End Rd	Ridgewood Dr	Cul-de-Sac	CS,Patch & O/L	65,691	997,886
2017	Leesburg Dr	Dunmore Ct	Cul-de-Sac	CS,Patch & O/L	73,700	1,071,586
2017	Leeward Ln	Beacon Knoll Ln	Edgewater Way	CS,Patch & O/L	7,034	1,078,620
2017	Liberty Hill Rd W	Fermount Dr	Hands Mill Hwy	CS,Patch & O/L	64,515	1,143,135
2017	London Dr	Mathis Rd	Cul-de-Sac	CS,Patch & O/L	74,986	1,218,121
2017	Marney Ln	Davidson Ridge Rd	Cul-de-Sac	CS,Patch & O/L	17,044	1,235,165
2017	Meadow Bend Dr	Shiloh Rd S	Shiloh Rd S	CS,Patch & O/L	220,293	1,455,458
2017	Naples Ln	Meridan Dr	Cul-de-Sac	CS,Patch & O/L	17,158	1,472,616
2017	Nichole Ln	Sam Smith Rd	Cul-de-Sac	CS,Patch & O/L	22,338	1,494,954
2017	Oak Meadows Ct	Museum Rd	Cul-de-Sac	CS,Patch & O/L	26,386	1,521,340
2017	Orchard Rd	Start AC	Highway 97	CS,Patch & O/L	358,949	1,880,289
2017	Pinewild Ct	Clover Cir	Cul-de-Sac	CS,Patch & O/L	8,634	1,888,923
2017	Poinciana Dr	Allison Creek Rd	Cul-de-Sac	CS,Patch & O/L	52,685	1,941,608
2017	Pollys Cir	Chester Hwy	Cul-de-Sac	CS,Patch & O/L	80,280	2,021,888

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2017	Riva Ridge Ct	Cul-de-Sac	Silver Charm Ln	CS,Patch & O/L	11,720	2,033,608
2017	Rockledge Pl	Hands Mill Hwy	Cul-de-Sac	CS,Patch & O/L	72,598	2,106,206
2017	Rockwell Cir	Robertson Rd E	Rockwell Cir	CS,Patch & O/L	118,737	2,224,943
2017	Running Brook Ln	Evelyn St	Wildwood Dr	CS,Patch & O/L	29,008	2,253,951
2017	Saint James Ln	AC Change	Cul-de-Sac	CS,Patch & O/L	24,649	2,278,600
2017	Scarboro Ln	Doncaster Dr	Cul-de-Sac	CS,Patch & O/L	12,264	2,290,864
2017	Settlement St	Winding Path Rd	Valley Forge Rd	CS,Patch & O/L	26,676	2,317,540
2017	Silver Charm Ln	Aristides Dr	Secretariat Dr	CS,Patch & O/L	31,022	2,348,562
2017	Silver Charm Ln	Secretariat Dr	Cul-de-Sac	CS,Patch & O/L	66,867	2,415,429
2017	Southeastern Rd	Hall Spencer Rd	End County Maintenance	CS,Patch & O/L	129,591	2,545,020
2017	Spicewood Dr	Pollys Cir	Spicewood Dr	CS,Patch & O/L	23,734	2,568,754
2017	Springwinds Dr	South Winds Ct	Cul-de-Sac	CS,Patch & O/L	41,553	2,610,307
2017	Stonepost Rd	Lesslie Hwy	Cul-de-Sac	CS,Patch & O/L	62,752	2,673,059
2017	Stony Fork Rd	Daves Rd	Cul-de-Sac	CS,Patch & O/L	103,313	2,776,372
2017	Walden Ct	Wimbledon Ln	Cul-de-Sac	CS,Patch & O/L	7,128	2,783,500
2017	Water Oak Dr	Pole Branch Rd	Little Cove Ln	CS,Patch & O/L	15,688	2,799,188
2017	Wexford Dr	Shandon Rd	Tipperary Rd	CS,Patch & O/L	33,126	2,832,314
2017	Whispering Oaks Ln	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	19,028	2,851,342
2017	Winding Path Rd	Saratoga Dr	Cul-de-Sac	CS,Patch & O/L	28,737	2,880,079
2017	Woodland Heights Rd	Charlotte Hwy	Charlotte Hwy	CS,Patch & O/L	125,654	3,005,733
2018	Agean Ln	Athens Dr	Balkan Dr	CS,Patch & O/L	105,811	105,811
2018	Big Chief Ct	Reservation Rd	Cul-de-Sac	CS,Patch & O/L	9,883	115,694
2018	Big Dipper Dr	Frog Pond Dr	Cul-de-Sac	CS,Patch & O/L	39,065	154,759
2018	Blandina Ct	Hugh St	Hugh St	CS,Patch & O/L	26,593	181,352
2018	Blythe Ct	Don Mccarter Dr	Cul-de-Sac	CS,Patch & O/L	26,306	207,658
2018	Boxwood Ct	Mcfarland Rd	Cul-de-Sac	CS,Patch & O/L	55,661	263,319
2018	Brimfield Ct	Montague Rd	Cul-de-Sac	CS,Patch & O/L	13,998	277,317
2018	Cabelas Dr	Festival Dr	Avenue of the Carolinas	CS,Patch & O/L	25,052	302,369
2018	Calliewood Dr	Anderson Rd S	Cul-de-Sac	CS,Patch & O/L	30,584	332,953
2018	Canary Ln	Flushing Dr	Cul-de-Sac	CS,Patch & O/L	26,343	359,296
2018	Canterbury Xing	Hemmingway Ln	Cul-de-Sac	CS,Patch & O/L	34,895	394,191
2018	Carolina Pl	Highway 160 W	Cul-de-Sac	CS,Patch & O/L	219,095	613,286

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2018	Catoe Dr	Fewell Rd	West End	CS,Patch & O/L	16,727	630,013
2018	Chipmeadow Ln	Brookhollow Dr	Cul-de-Sac	CS,Patch & O/L	55,404	685,417
2018	Choate Av	Faison Av	Cul-de-Sac	CS,Patch & O/L	15,396	700,813
2018	Colony Acres Rd	Burris Rd N	Cul-de-Sac	CS,Patch & O/L	83,436	784,249
2018	Dewitt Dr	Dunlap Roddey Rd	Cul-de-Sac	CS,Patch & O/L	12,947	797,196
2018	Diamond Pointe Ln	Brandt Rd	Cul-de-Sac	CS,Patch & O/L	16,250	813,446
2018	Docs Dead End	Mcconnells Hwy	Cul-de-Sac	CS,Patch & O/L	59,669	873,115
2018	Downey Cir	Waterlynn Dr	North End	CS,Patch & O/L	5,005	878,120
2018	Drybrook Ln	Barrett Rd	AC Change	CS,Patch & O/L	24,482	902,602
2018	Earl Dr	Stegall Ln	South End	CS,Patch & O/L	31,630	934,232
2018	Edgewater Way	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	8,479	942,711
2018	Fairhill Cir	Fairhill Cir	Fairhill Cir	CS,Patch & O/L	86,265	1,028,976
2018	Felix Ln	Summer Spring Ln	Autumn Brook Ln	CS,Patch & O/L	19,105	1,048,081
2018	Fernledge Dr	Montague Rd	Cul-de-Sac	CS,Patch & O/L	26,155	1,074,236
2018	Festival Dr	Carowinds Blvd	Cabelas Dr	CS,Patch & O/L	18,213	1,092,449
2018	Forest Creek Dr	Grand Cir	Brandon Lee Ct	CS,Patch & O/L	100,814	1,193,263
2018	Forest Home Dr	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	50,293	1,243,556
2018	Garden Ridge Dr	Paraham Rd S	Cul-de-Sac	CS,Patch & O/L	47,881	1,291,437
2018	Glenview Ln	Walker Rd	AC Change	CS,Patch & O/L	36,297	1,327,734
2018	Green Valley Rd	Hands Mill Hwy	Cul-de-Sac	CS,Patch & O/L	54,743	1,382,477
2018	Hemmingway Ln	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	47,238	1,429,715
2018	Hidden Branch Dr	Chester Hwy	Cul-de-Sac	CS,Patch & O/L	33,679	1,463,394
2018	Holland Dr	Stonehaven Ct	Cul-de-Sac	CS,Patch & O/L	14,934	1,478,328
2018	Howell Rd	Fayette Rd	Cul-de-Sac	CS,Patch & O/L	20,893	1,499,221
2018	Hugh St	Fifth Baxter Xing	Sixth Baxter Xing	CS,Patch & O/L	35,255	1,534,476
2018	Hunters Creek Ln	South End	Cul-de-Sac	CS,Patch & O/L	15,478	1,549,954
2018	Landing Pointe Dr	Inland Cove Ct	Kingsmill Ln	CS,Patch & O/L	21,483	1,571,437
2018	Leland Ct	White Ash Ct	Cul-de-Sac	CS,Patch & O/L	33,211	1,604,648
2018	Lincoln Forest Dr	Connors Ln	Meadow Rd	CS,Patch & O/L	23,958	1,628,606
2018	Longwood Dr	Hamilton Place Dr	Whispering Oaks Ln	CS,Patch & O/L	15,899	1,644,505
2018	Mangum Rd	West End	Red River Rd	CS,Patch & O/L	34,793	1,679,298
2018	Manteo Dr	Frontier Way	Pioneer Pl	CS,Patch & O/L	28,183	1,707,481

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2018	Melody Ln	Fairhill Cir	Cul-de-Sac	CS,Patch & O/L	20,060	1,727,541
2018	Montague Rd	Autumn Cove Dr	Cul-de-Sac	CS,Patch & O/L	67,822	1,795,363
2018	Nations Ford Rd	Start County Maintenance	Blossom Dr	CS,Patch & O/L	16,454	1,811,817
2018	Neighbor Ln	Epps Rd	Cul-de-Sac	CS,Patch & O/L	10,496	1,822,313
2018	Nestling Ln	Cul-de-Sac	Blue Jay Pass	CS,Patch & O/L	51,973	1,874,286
2018	Newcastle Dr	Cul-de-Sac	Balmoral Dr	CS,Patch & O/L	68,857	1,943,143
2018	Northmill Ct	Lakedale Dr	Cul-de-Sac	CS,Patch & O/L	18,189	1,961,332
2018	One Iron Dr	Springlake Rd	Cul-de-Sac	CS,Patch & O/L	45,925	2,007,257
2018	Painted Lady Ct	White Admiral Ln	Cul-de-Sac	CS,Patch & O/L	44,562	2,051,819
2018	Pigeon Ln	Quail Lake Dr	Cul-de-Sac	CS,Patch & O/L	26,641	2,078,460
2018	Pleasant Lake Clb	Beacon Knoll Ln	Beacon Knoll Ln	CS,Patch & O/L	10,472	2,088,932
2018	Pondway Downs	Cul-de-Sac	Wellsbrook Dr	CS,Patch & O/L	37,034	2,125,966
2018	Poverty Hill Ln	Anderson Rd S	Cureton Ferry Rd	CS,Patch & O/L	66,499	2,192,465
2018	Preston Rd	Anderson Rd S	Cul-de-Sac	CS,Patch & O/L	26,232	2,218,697
2018	Quarry Rd	Flat Rock Rd	AC Change	CS,Patch & O/L	149,121	2,367,818
2018	Regent Pkwy	Starlight Dr	Starlight Dr	CS,Patch & O/L	95,377	2,463,195
2018	Riddle Oak Ln	Stonebriar Ln	Cul-de-Sac	CS,Patch & O/L	77,080	2,540,275
2018	Riva Ridge Ct	Silver Charm Ln	Cul-de-Sac	CS,Patch & O/L	24,247	2,564,522
2018	Rolin Av	Choate Av	Cul-de-Sac	CS,Patch & O/L	11,599	2,576,121
2018	Schooner Ln	Cul-de-Sac	AC Change	CS,Patch & O/L	25,351	2,601,472
2018	Sensation Rd	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	92,477	2,693,949
2018	Shadow Cove Ln	Landing Pointe Dr	Cul-de-Sac	CS,Patch & O/L	14,108	2,708,057
2018	Shady Knoll Ct	Mineral Springs Rd	Cul-de-Sac	CS,Patch & O/L	7,762	2,715,819
2018	Sharon Lee Av	Drew Av	Cul-de-Sac	CS,Patch & O/L	25,145	2,740,964
2018	Spring Gln	Dove Landing Rd	Cul-de-Sac	CS,Patch & O/L	35,785	2,776,749
2018	Tanner Ridge Ct	Emma Wood Ln	Cul-de-Sac	CS,Patch & O/L	24,616	2,801,365
2018	Tealwood Dr	Briar Cir	Cul-de-Sac	CS,Patch & O/L	16,897	2,818,262
2018	Thoroughbred Ln	Kingsburry Rd	Cul-de-Sac	CS,Patch & O/L	64,479	2,882,741
2018	Timberwood Dr	Pleasant Rd	Cul-de-Sac	CS,Patch & O/L	12,819	2,895,560
2018	Vanderbilt Dr	Paraham Rd S	Vander Lakes Dr	CS,Patch & O/L	36,581	2,932,141
2018	Vandora Springs Rd	Leela Palace Way	Coralstone Dr	CS,Patch & O/L	23,698	2,955,839
2018	Waterway Dr	Valley View Dr	Cul-de-Sac	CS,Patch & O/L	60,554	3,016,393



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2018	Whipporwill Ln	Pennington Rd	Willow St	CS,Patch & O/L	49,085	3,065,478
2018	Windsor Chase Ln	Wellsbrook Dr	Cul-de-Sac	CS,Patch & O/L	17,231	3,082,709
2018	Windswept Cv	Hands Mill Hwy	Cul-de-Sac	CS,Patch & O/L	170,620	3,253,329
2019	Amberside Dr	Cul-de-Sac	South Bank Dr	CS,Patch & O/L	10,736	10,736
2019	Aristides Dr	York Hwy	Real Quiet Ct	Triple Surface Treat.	11,529	22,265
2019	Assembly Dr	Market St	First Baxter Xing	CS,Patch & O/L	25,174	47,439
2019	Autumn Ridge Ln	Cul-de-Sac	Spandril Ln	CS,Patch & O/L	29,593	77,032
2019	Bagwell Cir	Start County Maintenance	End County Maintenance	CS,Patch & O/L	7,688	84,720
2019	Balsam Bark Ln	Leela Palace Way	Cul-de-Sac	Triple Surface Treat.	8,878	93,598
2019	Beacon Crest Ln	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	32,552	126,150
2019	Big Rock Ct	Eppington South Dr	Cul-de-Sac	CS,Patch & O/L	12,329	138,479
2019	Boardwalk Run	Sunset Point Dr	Shimmer Light Cir	CS,Patch & O/L	33,113	171,592
2019	Boatshore Rd	Lake Wylie Dr	Cul-de-Sac	CS,Patch & O/L	19,684	191,276
2019	Boulder Dr	Liberty Hill Rd W	Innsbruck Ct	CS,Patch & O/L	115,406	306,682
2019	Brandon Lee Ct	Forest Creek Dr	Cul-de-Sac	CS,Patch &Thin Mix O/L	16,760	323,442
2019	Brigadier Dr	Generals Way	Cul-de-Sac	CS,Patch &Thin Mix O/L	26,645	350,087
2019	Brookmead Dr	Henry St	Cul-de-Sac	CS,Patch & O/L	4,035	354,122
2019	Brushy Knl	Johnsons Barn Rd	Cul-de-Sac	CS,Patch & O/L	21,052	375,174
2019	Brynwood Dr	Timber Ridge Ln	Woodbridge Dr	CS,Patch & O/L	72,049	447,223
2019	Caille Ct	Blue Jay Pass	Nestling Ln	CS,Patch & O/L	37,949	485,172
2019	Calvin Hal Rd	Mill Pond Rd	Schooner Ln	CS,Patch & O/L	35,356	520,528
2019	Caroland Dr	Pine Bluff Ct	Altura Rd	CS,Patch & O/L	95,362	615,890
2019	Carowood Dr	Farmlake Ln	Gold Hill Rd	Triple Surface Treat.	8,827	624,717
2019	Carved Oak Ct	Willow Landing Dr	Cul-de-Sac	CS,Patch & O/L	17,503	642,220
2019	Caseys Side Way	Cul-de-Sac	Founders St	CS,Patch & O/L	22,024	664,244
2019	Caspar Way	Blandina Ct	Blandina Ct	CS,Patch &Thin Mix O/L	4,783	669,027
2019	Castle Pines Dr	Brandon Lee Ct	Trevor Ln	CS,Patch & O/L	18,431	687,458
2019	Channing Park Way	Museum Rd	AC Change	CS,Patch & O/L	30,047	717,505
2019	Clintwood Dr	Singing Pine Dr	Highway 557	CS,Patch & O/L	82,370	799,875
2019	Colonels Ct	Generals Way	Cul-de-Sac	CS,Patch & O/L	6,957	806,832
2019	Cranborne Chase	Portpatrick Pl	Cul-de-Sac	CS,Patch &Thin Mix O/L	18,023	824,855
2019	Crofton Dr	Dobys Bridge Rd S	Cul-de-Sac	CS,Patch &Thin Mix O/L	57,492	882,347

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2019	Danfield Dr	Poplar Forest Rdg	Longlea Dr	CS,Patch & O/L	51,032	933,379
2019	Dashers Den	Cranborne Chase	Cul-de-Sac	CS,Patch & O/L	4,823	938,202
2019	Davidson Rd	Henry Knob Rd	Lexington Green Dr	Triple Surface Treat.	25,525	963,727
2019	Diane Rd	Black Hwy	Cul-de-Sac	CS,Patch & O/L	39,458	1,003,185
2019	Dodge Rd	Turkey Creek Rd	Star Rd	Triple Surface Treat.	25,675	1,028,860
2019	Dovefield Dr	Cul-de-Sac	Sunnywood Rd	Triple Surface Treat.	21,138	1,049,998
2019	Durham Ln	Neely Store Rd	Cul-de-Sac	CS,Patch & O/L	26,253	1,076,251
2019	Echo Ln	Green Valley Rd	Cul-de-Sac	CS,Patch & O/L	28,441	1,104,692
2019	Edgecomb Dr	Bethel Church Rd	Cul-de-Sac	CS,Patch & O/L	20,753	1,125,445
2019	Eleanor Ct	Bethel Church Rd	Cul-de-Sac	CS,Patch & O/L	14,499	1,139,944
2019	Elizabeth Valley Ln	Iron Works Dr	Cul-de-Sac	CS,Patch & O/L	22,595	1,162,539
2019	Ellison Dr	Sturgis Rd	Cul-de-Sac	CS,Patch &Thin Mix O/L	29,447	1,191,986
2019	Endeavor Ln	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	21,970	1,213,956
2019	Eppington South Dr	Gold Hill Rd	Langston Place Dr	Triple Surface Treat.	49,099	1,263,055
2019	Eskridge Ter	Curry Ln	Cul-de-Sac	Triple Surface Treat.	20,598	1,283,653
2019	Farmcrest Ct	Pine Bluff Ct	Cul-de-Sac	CS,Patch & O/L	23,341	1,306,994
2019	First Baxter Xing	Nations Commons St	Assembly Dr	CS,Patch & O/L	21,606	1,328,600
2019	Frontier Way	Virginia Dare Dr	Manteo Dr	CS,Patch & O/L	16,732	1,345,332
2019	Furman Ct	Cul-de-Sac	Hyde Park Ln	CS,Patch & O/L	5,330	1,350,662
2019	Golden Ridge Rd	Landing Pointe Dr	Cul-de-Sac	CS,Patch & O/L	21,665	1,372,327
2019	Grand Cir	Barringer Rd	Barringer Rd	CS,Patch & O/L	77,609	1,449,936
2019	Gretna Grn	Cranborne Chase	Portpatrick Pl	CS,Patch & O/L	10,912	1,460,848
2019	Haddonfield Dr	Mary Ellen Dr	Cul-de-Sac	CS,Patch & O/L	18,968	1,479,816
2019	Hancock Xing	Prescott Dr	Forbes Ct	Triple Surface Treat.	12,453	1,492,269
2019	Hugh St	Third Baxter St	Fifth Baxter Xing	Triple Surface Treat.	17,542	1,509,811
2019	Hunter Ridge Rd	Adnah Church Rd	Cul-de-Sac	CS,Patch & O/L	31,960	1,541,771
2019	Hyde Park Ln	Knightswood Rd	Cul-de-Sac	CS,Patch & O/L	35,177	1,576,948
2019	Irish Green Dr	Longford Dam Ct	Curry Ln	CS,Patch &Thin Mix O/L	9,783	1,586,731
2019	Ivywood Dr	AC Change	Rollingwood Cir	CS,Patch &Thin Mix O/L	45,692	1,632,423
2019	Johnson Rd	Lake Wylie Rd	Cul-de-Sac	CS,Patch & O/L	86,376	1,718,799
2019	Johnsons Barn Rd	North Rd	Cul-de-Sac	CS,Patch & O/L	41,369	1,760,168
2019	Kingsbridge Dr	Squire Rd	Londonberry Dr	CS,Patch & O/L	39,051	1,799,219

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2019	Lake Vista Blvd	Rockmont Dr	Silver Ridge Dr	CS,Patch & O/L	21,216	1,820,435
2019	Laurel Meadow Dr	Cul-de-Sac	Altovista Ct	Triple Surface Treat.	3,791	1,824,226
2019	Lillian Ln	Pleasant Rd	Cul-de-Sac	CS,Patch & O/L	35,379	1,859,605
2019	Lockhaven Rd	Greenwood Rd	Blue Rd	CS,Patch &Thin Mix O/L	28,318	1,887,923
2019	Manor House MI	Cranborne Chase	Cul-de-Sac	CS,Patch & O/L	4,579	1,892,502
2019	Maplewood Ln	Old York Rd	Cul-de-Sac	CS,Patch & O/L	14,070	1,906,572
2019	Mill Pond Rd	Nautical Dr	Calvin Hal Rd	Triple Surface Treat.	31,292	1,937,864
2019	Mineral Springs Rd	Landing Pointe Dr	Mill Pond Rd	CS,Patch & O/L	27,465	1,965,329
2019	Montgomery Dr	Hilton Rd	Cedarvale Rd	CS,Patch & O/L	24,610	1,989,939
2019	Morning Mist End	Cul-de-Sac	Alexandrite Way	Triple Surface Treat.	8,224	1,998,163
2019	Moss Creek Rd	Mcfarland Rd	Mcfarland Rd	CS,Patch & O/L	80,402	2,078,565
2019	Onyx Rdg	Cul-de-Sac	Sapphire Ln	CS,Patch & O/L	16,856	2,095,421
2019	Osteen Rd	Will Rd	Shiloh Rd S	CS,Patch & O/L	118,356	2,213,777
2019	Peaceful Creek Dr	Rippling Creek Dr	Cul-de-Sac	CS,Patch & O/L	47,052	2,260,829
2019	Pepperwood Pl	Charlotte Hwy	Springhouse Pl	CS,Patch & O/L	38,337	2,299,166
2019	Phil Dr	Highway 55 E	Glenway Rd	CS,Patch & O/L	16,379	2,315,545
2019	Pope St	Oakwood Cir	Celanese Rd	Triple Surface Treat.	6,395	2,321,940
2019	Richards Xing	Barnett Woods Xing	Sutton Rd N	CS,Patch &Thin Mix O/L	22,176	2,344,116
2019	Rillaby Av	Museum Rd	Wesley Woods Dr	CS,Patch & O/L	34,978	2,379,094
2019	River Point Rd	Blucher Cir	Cul-de-Sac	CS,Patch & O/L	14,466	2,393,560
2019	Rockcliff Pl	Liberty Hill Rd W	Cul-de-Sac	CS,Patch &Thin Mix O/L	26,936	2,420,496
2019	Shady Tree Ln	Misty Hill Rd	Cul-de-Sac	CS,Patch & O/L	47,341	2,467,837
2019	Shauna Rd	Gordon Rd	Cul-de-Sac	CS,Patch & O/L	86,348	2,554,185
2019	Shutterfly Blvd	Carolina Pl	Cul-de-Sac	CS,Patch & O/L	37,234	2,591,419
2019	Silver Ridge Dr	Lake Vista Blvd	Gold Hill Rd	CS,Patch &Thin Mix O/L	8,597	2,600,016
2019	Sixth Baxter Xing	Sutton Rd N	Hugh St	CS,Patch & O/L	24,260	2,624,276
2019	Slippery Rock Cv	Highland Forest Dr	Cul-de-Sac	CS,Patch & O/L	26,546	2,650,822
2019	Southern Pines Av	Charlotte Hwy	Clover Cir	CS,Patch & O/L	16,067	2,666,889
2019	Spreading Oak Ln	Sutton Spring Rd	Cul-de-Sac	CS,Patch & O/L	100,025	2,766,914
2019	Star Rd	Dodge Rd	Orion Rd	CS,Patch & O/L	56,237	2,823,151
2019	Stratford Run Dr	New Gray Rock Rd	Mills Ln	Triple Surface Treat.	14,396	2,837,547
2019	Summer House Way	Sunset Point Dr	Spring Box Ct	CS,Patch & O/L	16,209	2,853,756

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2019	Sunledge Ter	Bethelfields Trc	Cul-de-Sac	CS,Patch & O/L	5,349	2,859,105
2019	Sunnywood Rd	Dovefield Dr	Cul-de-Sac	CS,Patch & O/L	62,071	2,921,176
2019	Thorncliff Dr	Dr Nichols Rd	Sunnywood Rd	CS,Patch & O/L	52,624	2,973,800
2019	Tidewood Ln	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	18,818	2,992,618
2019	Tiger Paw Ln	Allison Creek Rd	Cul-de-Sac	CS,Patch &Thin Mix O/L	27,723	3,020,341
2019	Truffle Ct	Meridan Dr	Cul-de-Sac	CS,Patch & O/L	12,209	3,032,550
2019	Valelake Rd	Concord Rd	Cul-de-Sac	CS,Patch & O/L	98,917	3,131,467
2019	Valley Forge Rd	Winding Path Rd	Cul-de-Sac	CS,Patch & O/L	32,184	3,163,651
2019	Vanhook Dr	Paraham Rd S	Cul-de-Sac	CS,Patch &Thin Mix O/L	35,832	3,199,483
2019	Walnut Ridge Rd	Antney Ln	Cul-de-Sac	CS,Patch & O/L	16,015	3,215,498
2019	Warwick Way	Cul-de-Sac	Gower St	CS,Patch & O/L	10,243	3,225,741
2019	Water Oak Dr	Little Cove Ln	Cul-de-Sac	Triple Surface Treat.	57,115	3,282,856
2019	Wellsbrook Dr	Neelys Creek Rd	Pondway Downs	Triple Surface Treat.	18,914	3,301,770
2019	Wessex Way	Cul-de-Sac	Cranborne Chase	CS,Patch &Thin Mix O/L	3,455	3,305,225
2019	Whispering Pines Dr	Anderson Rd S	Cul-de-Sac	CS,Patch & O/L	49,065	3,354,290
2019	Wild Pine Ln	Dr Nichols Rd	Cul-de-Sac	CS,Patch &Thin Mix O/L	6,996	3,361,286
2019	Willow Landing Dr	Cul-de-Sac	Ormand Rd	Triple Surface Treat.	39,532	3,400,818
2019	Wilson Business Pkwy	South End	Gold Hill Rd	CS,Patch &Thin Mix O/L	39,443	3,440,261
2019	Wimbledon Ln	Devonshire Dr	Devonshire Dr	CS,Patch & O/L	68,005	3,508,266
2020	Ashley Rd	Alexander Love Hwy W	South End	CS,Patch & O/L	21,710	21,710
2020	Austin Dr	Daves Rd	East End	CS,Patch & O/L	155,336	177,046
2020	Bridle Ct	Branch Rd	Cul-de-Sac	Mod. Repair & O/L	72,336	249,382
2020	Burnside Ct	Muldoon Ln	Cul-de-Sac	CS,Patch & O/L	13,998	263,380
2020	Caldwell Dr	Northway Dr	East End	CS,Patch & O/L	13,407	276,787
2020	Campfire Tr	Endeavor Ln	Flagsworth Rd	Mod. Repair & O/L	22,797	299,584
2020	Canter Ln	Cul-de-Sac	Trotter Pl	CS,Patch & O/L	60,120	359,704
2020	Canter Ln	Trotter Pl	Cul-de-Sac	CS,Patch & O/L	16,653	376,357
2020	Caring Rd	Shiloh Rd N	End County Maintenance	CS,Patch & O/L	68,436	444,793
2020	Castlebury Ct	Catamount Dr	Cul-de-Sac	8in PCC Reclaim & O/L	49,400	494,193
2020	Channing Park Way	Ashworth Dr	Cul-de-Sac	Mod. Repair & O/L	17,695	511,888
2020	Chesterfield Canal	Gringley Hill Rd	Gringley Hill Rd	CS,Patch & O/L	36,005	547,893
2020	Clarendon Estates Dr	Colleton Meadow Dr	Cul-de-Sac	CS,Patch & O/L	22,632	570,525

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2020	Clay Hills Dr	Glenview Ln	Cul-de-Sac	CS,Patch & O/L	25,020	595,545
2020	Clegg Farm Dr	Charlotte Hwy	Timber Creek Dr	CS,Patch & O/L	82,485	678,030
2020	Country Trail Rd	Ernest Rd	Cul-de-Sac	CS,Patch & O/L	29,242	707,272
2020	Creek Run Dr	Iron Works Dr	Kingshire Way	Mod. Repair & O/L	9,736	717,008
2020	Crown Ridge Dr	Blowing Rock Cv	Cul-de-Sac	Mod. Repair & O/L	50,508	767,516
2020	Davis Cir	Beamguard Rd	Faulkner Rd	CS,Patch & O/L	44,489	812,005
2020	Devonshire Dr	Twin Lakes Rd	Knighton Hill Rd	CS,Patch & O/L	85,490	897,495
2020	Drake Pond Ln	Mallard Creek Dr	Cul-de-Sac	CS,Patch & O/L	53,016	950,511
2020	Drewman Pl	Leesburg Dr	Cul-de-Sac	CS,Patch & O/L	20,060	970,571
2020	Dwayne Dr	Daves Rd	Austin Dr	CS,Patch & O/L	93,627	1,064,198
2020	Elizabeth Berry Ct	Forest Home Dr	Cul-de-Sac	CS,Patch & O/L	7,635	1,071,833
2020	Faison Av	Choate Av	Drew Av	CS,Patch & O/L	45,486	1,117,319
2020	Fayrene Rd	Holland Rd	Cul-de-Sac	Mod. Repair & O/L	125,354	1,242,673
2020	Flagsworth Rd	Endeavor Ln	Cul-de-Sac	CS,Patch & O/L	15,908	1,258,581
2020	Garrett Ln	Patrick Ct	Cul-de-Sac	CS,Patch & O/L	10,250	1,268,831
2020	Harvest Ter	Oleander Dr	Cul-de-Sac	CS,Patch & O/L	28,657	1,297,488
2020	Hatwood Knl	Fallowbrook Frst	Cul-de-Sac	CS,Patch & O/L	4,115	1,301,603
2020	Heatherwood Ct	Shannon Meadows Rd	Cul-de-Sac	CS,Patch & O/L	16,967	1,318,570
2020	Hoodtown Rd	Lockhart Rd	Conservation Rd	CS,Patch & O/L	314,494	1,633,064
2020	Houston Dr	Old York Rd	Cul-de-Sac	CS,Patch & O/L	51,369	1,684,433
2020	Inkberry Ct	Montague Rd	Cul-de-Sac	CS,Patch & O/L	10,287	1,694,720
2020	Iron Works Dr	Cul-de-Sac	Irish Green Dr	CS,Patch & O/L	14,806	1,709,526
2020	Knightsbridge Rd	Cheval Dr E	Saint George Rd	Mod. Repair & O/L	38,646	1,748,172
2020	Kreps Rd	Wild Mustang Dr	Cul-de-Sac	8in PCC Reclaim & O/L	142,791	1,890,963
2020	Mckee Rd	Vineyard Rd	End County Maintenance	Mod. Repair & O/L	44,190	1,935,153
2020	Meadowlark Dr	Nightingale Rd	Cul-de-Sac	CS,Patch & O/L	11,169	1,946,322
2020	Mineral Springs Rd	Cul-de-Sac	Landing Pointe Dr	CS,Patch & O/L	8,156	1,954,478
2020	Mirage Pl	Cul-de-Sac	Coralstone Dr	8in PCC Reclaim & O/L	34,539	1,989,017
2020	Molly Cir	Lincoln Rd	Old Limestone Rd W	CS,Patch & O/L	218,502	2,207,519
2020	Morning Dove Way	Cul-de-Sac	Fenwick Ct	CS,Patch & O/L	37,475	2,244,994
2020	Old Farm Rd	Gold Hill Rd	West End	Mod. Repair & O/L	48,869	2,293,863
2020	Poplar Forest Rdg	Fenwick Ct	Cul-de-Sac	CS,Patch & O/L	23,844	2,317,707

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2020	Portman Ln N	Cheval Dr W	Cul-de-Sac	Mod. Repair & O/L	22,763	2,340,470
2020	Promenade Walk	Shady Grove Xing	Springmaid Av	Mod. Repair & O/L	26,922	2,367,392
2020	Pyrite Cir	Cul-de-Sac	Sunset Rose Dr	CS,Patch & O/L	6,383	2,373,775
2020	Redwood Rd	Ogden Rd	AC Change	8in PCC Reclaim & O/L	317,516	2,691,291
2020	Rockmont Dr	Lake Vista Blvd	Gold Hill Rd	CS,Patch & O/L	43,948	2,735,239
2020	Shady Grove Xing	Promenade Walk	Market St	Mod. Repair & O/L	12,398	2,747,637
2020	Shallow Branch Ct	Old Springs Rd	Cul-de-Sac	Mod. Repair & O/L	10,406	2,758,043
2020	Sharon Lee Av	Sutton Rd N	Drew Av	Mod. Repair & O/L	32,137	2,790,180
2020	Shytle Ln	Mcfarland Rd	Cul-de-Sac	Mod. Repair & O/L	163,811	2,953,991
2020	Singing Pine Dr	Highway 557	Clintwood Dr	CS,Patch & O/L	79,285	3,033,276
2020	South Bank Dr	Dublin Ct	Channing Park Way	CS,Patch & O/L	49,338	3,082,614
2020	South Bank Dr	Channing Park Way	Cul-de-Sac	Mod. Repair & O/L	19,527	3,102,141
2020	Stegall Ln	Earl Dr	Cul-de-Sac	CS,Patch & O/L	68,136	3,170,277
2020	Stillwater Ct	Holland Dr	Cul-de-Sac	Mod. Repair & O/L	12,962	3,183,239
2020	Stoneybrook Dr	Farmstead Ln	Waterford Pl	Mod. Repair & O/L	64,180	3,247,419
2020	Strawberry Rd	Marshall Rd	End County Maintenance	CS,Patch & O/L	42,685	3,290,104
2020	Third Baxter St	Promenade Walk	Market St	CS,Patch & O/L	38,118	3,328,222
2020	Thrush Way	Blackbird Dr	Cul-de-Sac	CS,Patch & O/L	10,170	3,338,392
2020	Timberland Ct	Park Place Rd	Cul-de-Sac	CS,Patch & O/L	47,929	3,386,321
2020	Travis Cir	Daves Rd	Travis Cir	CS,Patch & O/L	128,443	3,514,764
2020	Trotter Pl	Canter Ln	Cul-de-Sac	CS,Patch & O/L	35,741	3,550,505
2020	Wild Cherry Ct	Bald Cypress Dr	Cul-de-Sac	CS,Patch & O/L	6,760	3,557,265
2020	Wilmoth Rd	Beamguard Rd	Highway 55 W	Mod. Repair & O/L	161,293	3,718,558
2020	Zimmerman Dr	Gold Hill Rd	Cul-de-Sac	Mod. Repair & O/L	54,564	3,773,122
2021	Adicks Ct	Mt Gallant Rd W	Cul-de-Sac	8in PCC Reclaim & O/L	101,567	101,567
2021	Antney Ln	Walnut Ridge Rd	Cul-de-Sac	8in PCC Reclaim & O/L	7,460	109,027
2021	Applewood Ln	Chipmeadow Ln	Chipmeadow Ln	CS,Patch & O/L	47,101	156,128
2021	Appling Way	Shiloh Rd N	Cul-de-Sac	CS,Patch & O/L	19,452	175,580
2021	Automall Pkwy	Start County Maintenance	End County Maintenance	8in PCC Reclaim & O/L	17,974	193,554
2021	Bailiwyck Grn	Pleasant Rd	South Downs Way	CS,Patch & O/L	90,901	284,455
2021	Barronwood Rd	Hands Mill Hwy	AC Change	8in PCC Reclaim & O/L	18,599	303,054
2021	Bow St	Mt Gallant Rd	Cul-de-Sac	8in PCC Reclaim & O/L	45,112	348,166

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2021	Brushwood Dr	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	122,244	470,410
2021	Carolina Wren Dr	Roadrunner Rd	Faulkner Rd	CS,Patch & O/L	16,513	486,923
2021	Central Av	First St S	Country Haven Ln	8in PCC Reclaim & O/L	15,820	502,743
2021	Chancelot Ln	Melbourne Dr	Cul-de-Sac	CS,Patch & O/L	28,510	531,253
2021	Cobby Creek Ct	Royal Pines Dr	Cul-de-Sac	CS,Patch & O/L	18,774	550,027
2021	Complex Ln	Justice Blvd	Public Works Rd	CS,Patch & O/L	34,556	584,583
2021	Cranborne Chase	Gringley Hill Rd	Portpatrick Pl	8in PCC Reclaim & O/L	68,282	652,865
2021	Creeks Edge Dr	Hands Mill Hwy	Sethwood Dr	CS,Patch & O/L	14,763	667,628
2021	Crosswinds Dr	Mountainview Rd	Crosswinds Dr	CS,Patch & O/L	34,549	702,177
2021	Deerfield Dr	Deerfield Dr	Deerfield Dr	8in PCC Reclaim & O/L	303,749	1,005,926
2021	Dubreils Way	Eppington South Dr	Cul-de-Sac	CS,Patch & O/L	15,045	1,020,971
2021	Dunmore Ct	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	29,796	1,050,767
2021	Ernest Rd	Old York Rd	Country Trail Rd	CS,Patch & O/L	67,167	1,117,934
2021	Fairhill Cir	Mt Gallant Rd	Fairhill Cir	8in PCC Reclaim & O/L	28,964	1,146,898
2021	Farmstead Ln	Millbrook Ln	Stoneybrook Dr	8in PCC Reclaim & O/L	28,865	1,175,763
2021	Fayette Rd	Flat Rock Rd	Cul-de-Sac	CS,Patch & O/L	65,263	1,241,026
2021	Forest Gdn	Virginia Lee Ct	Cul-de-Sac	CS,Patch & O/L	6,222	1,247,248
2021	Fossil Stone Ln	Cul-de-Sac	Mirage Pl	8in PCC Reclaim & O/L	28,035	1,275,283
2021	Goforth Rd	Will Rd	Cul-de-Sac	CS,Patch & O/L	17,134	1,292,417
2021	Grey Moss Dr	Forest Oaks Dr	Swaying Branch Ln	8in PCC Reclaim & O/L	21,851	1,314,268
2021	Harrowfield Hts	Canebrook Gln	Cul-de-Sac	CS,Patch & O/L	15,725	1,329,993
2021	Hartley Ct	Calvin Hal Rd	Cul-de-Sac	CS,Patch & O/L	12,639	1,342,632
2021	Innsbruck Ct	Boulder Dr	Rockledge Pl	CS,Patch & O/L	15,431	1,358,063
2021	Island Forks Rd	Pole Branch Rd	Cul-de-Sac	CS,Patch & O/L	148,897	1,506,960
2021	Justice Blvd	Complex Ln	Cul-de-Sac	CS,Patch & O/L	23,520	1,530,480
2021	Keara Ct	Knightswood Rd	Autumn Ridge Ln	8in PCC Reclaim & O/L	19,793	1,550,273
2021	Kidd Rd	Harris Rd	Cul-de-Sac	CS,Patch & O/L	11,015	1,561,288
2021	Kilpatrick Ln	Cul-de-Sac	Knightswood Rd	8in PCC Reclaim & O/L	55,453	1,616,741
2021	Kinglet Dr	Black Hwy	Cul-de-Sac	8in PCC Reclaim & O/L	76,597	1,693,338
2021	Lakemont Blvd	Crestmont Dr	Carowinds Blvd	8in PCC Reclaim & O/L	270,887	1,964,225
2021	Longlea Dr	Highway 557	Poplar Forest Rdg	CS,Patch & O/L	37,328	2,001,553
2021	Mallard Bay Dr	Tanager Dr	Cul-de-Sac	CS,Patch & O/L	77,321	2,078,874

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2021	Naturewoods Rd	Chester Hwy	Cul-de-Sac	CS,Patch & O/L	90,197	2,169,071
2021	Old Hearth Rd	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	35,371	2,204,442
2021	Old Wallace Rd	Main St W	South End	CS,Patch & O/L	77,050	2,281,492
2021	Ormand Rd	Willow Landing Dr	Cul-de-Sac	CS,Patch & O/L	185,904	2,467,396
2021	Osborne Farm Rd	Hammond Rd	End AC	8in PCC Reclaim & O/L	35,564	2,502,960
2021	Otis Crosby Rd	Adkins Rd	Cul-de-Sac	CS,Patch & O/L	47,164	2,550,124
2021	Patriots Way	Love Valley Rd	Cul-de-Sac	8in PCC Reclaim & O/L	104,557	2,654,681
2021	Poplar Forest Rdg	Longlea Dr	Fenwick Ct	CS,Patch & O/L	19,987	2,674,668
2021	Ralph Frame Rd	Davis Lever St	South End	CS,Patch & O/L	17,675	2,692,343
2021	Riddle Road Ext	AC Change	Cul-de-Sac	CS,Patch & O/L	86,205	2,778,548
2021	Rock Castle Dr	Mcfarland Rd	Cul-de-Sac	8in PCC Reclaim & O/L	123,119	2,901,667
2021	Ruth Lee Ct	Cul-de-Sac	Jefferson Pl	8in PCC Reclaim & O/L	19,064	2,920,731
2021	Sagrada Dr	Silver Oak Dr	Cul-de-Sac	CS,Patch & O/L	27,628	2,948,359
2021	Saint George Rd	Knightsbridge Rd	Cul-de-Sac	CS,Patch & O/L	56,778	3,005,137
2021	Saint Michaels Way	South Downs Way	Cul-de-Sac	CS,Patch & O/L	12,692	3,017,829
2021	Sierra Rd	California Rd	Sutton Spring Rd	CS,Patch & O/L	322,610	3,340,439
2021	Silver Oak Dr	AC Change	Sagrada Dr	CS,Patch & O/L	9,957	3,350,396
2021	Spicewood Dr	Spicewood Dr	Pollys Cir	8in PCC Reclaim & O/L	74,776	3,425,172
2021	Swaying Branch Ln	Flagsworth Rd	Winding Path Rd	CS,Patch & O/L	10,822	3,435,994
2021	Tributary Dr	Sethwood Dr	Cool Creek Dr	CS,Patch & O/L	25,167	3,461,161
2021	Walnut Grove Rd	Irene Bridge Hwy	South End	8in PCC Reclaim & O/L	159,292	3,620,453
2021	Westmoreland Dr	Cul-de-Sac	Jim McCarter Rd N	CS,Patch & O/L	32,931	3,653,384
2021	White Ibis Ct	Cul-de-Sac	Brown Pelican Ct	CS,Patch & O/L	69,965	3,723,349
2021	Will Rd	Osteen Rd	Cul-de-Sac	CS,Patch & O/L	55,277	3,778,626
2021	Willowood Pond Dr	Glasscock Rd	Cul-de-Sac	8in PCC Reclaim & O/L	27,731	3,806,357
2021	Winding Path Rd	Evergreen Rd	Saratoga Dr	8in PCC Reclaim & O/L	67,797	3,874,154
2021	Winds Ct	Crosswinds Dr	Cul-de-Sac	CS,Patch & O/L	5,658	3,879,812
2021	Woodgreen Rd	Greenwood Rd	Cul-de-Sac	8in PCC Reclaim & O/L	33,540	3,913,352
2021	Woodland Heights Rd	Charlotte Hwy	Old Limestone Rd E	CS,Patch & O/L	141,612	4,054,964
2022	Athens Dr	Paraham Rd S	Balkan Dr	CS,Patch & O/L	22,816	22,816
2022	Automall Pkwy	Start County Maintenance	End County Maintenance	6in Full Depth & O/L	38,050	60,866
2022	Barclay Ln	Lake Wylie Rd	Lake Wylie Rd	CS,Patch & O/L	142,037	202,903



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2022	Biggers Rd	Start AC	Ramah Church Rd	CS,Patch & O/L	98,931	301,834
2022	Blue Heron Dr	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	38,871	340,705
2022	Broome Pl	Neely Store Rd	Cul-de-Sac	CS,Patch & O/L	21,750	362,455
2022	Brown Oates Rd	Tirzah Rd	AC Change	CS,Patch & O/L	12,993	375,448
2022	Buford Ct	Auten Rd	Cul-de-Sac	CS,Patch & O/L	33,250	408,698
2022	Calview Ct	Echols Dr	Cul-de-Sac	CS,Patch & O/L	30,421	439,119
2022	Cammie Jordon Ln	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	38,276	477,395
2022	Chalet Ct	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	51,509	528,904
2022	Chameleon Rd	Allison Creek Rd	Cul-de-Sac	CS,Patch & O/L	36,005	564,909
2022	Chandler Rd	Bethel School Rd	Cul-de-Sac	CS,Patch & O/L	67,932	632,841
2022	Chimney Ford Rd	Kingsburry Rd	Compton Rd	CS,Patch & O/L	61,429	694,270
2022	Clarendon Estates Dr	Oakridge Rd	Colleton Meadow Dr	CS,Patch & O/L	63,009	757,279
2022	Claybar Ct	Barclay Ln	Cul-de-Sac	CS,Patch & O/L	10,471	767,750
2022	Colonial Acres Cir	York Hwy	York Hwy	CS,Patch & O/L	60,300	828,050
2022	Colton Ct	Eagle Lair Dr	Cul-de-Sac	CS,Patch & O/L	18,737	846,787
2022	Cornelious Rd	Collins Rd	Cul-de-Sac	CS,Patch & O/L	28,347	875,134
2022	Creole Rd	Morning Star Rd	Cul-de-Sac	CS,Patch & O/L	26,636	901,770
2022	Dana Dr	Hall Spencer Rd	Whispering Pines Dr	CS,Patch & O/L	42,752	944,522
2022	Dove Landing Rd	York Hwy	Cul-de-Sac	CS,Patch & O/L	87,655	1,032,177
2022	Drake Park Av	Sharon Lee Av	Cul-de-Sac	CS,Patch & O/L	17,916	1,050,093
2022	Eagle Lair Dr	Neelys Creek Rd	Cul-de-Sac	CS,Patch & O/L	62,127	1,112,220
2022	Fallowbrook Frst	Ivy Creek Frd	Cul-de-Sac	CS,Patch & O/L	65,948	1,178,168
2022	Fencepost Ln	Harmony Rd	Cul-de-Sac	CS,Patch & O/L	57,264	1,235,432
2022	Firethorn Ln	Windsong Ln	Cul-de-Sac	CS,Patch & O/L	46,292	1,281,724
2022	Flat Rock Rd	Owens Rd	Fayette Rd	CS,Patch & O/L	71,533	1,353,257
2022	Forestwood Rd	Timber Ridge Ln	Cul-de-Sac	CS,Patch & O/L	12,492	1,365,749
2022	Four Knights Ln	Kingsburry Rd	Cul-de-Sac	CS,Patch & O/L	72,184	1,437,933
2022	Fritts Av	Munn Rd	Cul-de-Sac	CS,Patch & O/L	18,261	1,456,194
2022	Frostproof Tr	Mt Holly Rd	AC Change	CS,Patch & O/L	47,652	1,503,846
2022	Garnet Ct	Turquoise Way	Turquoise Way	CS,Patch & O/L	52,079	1,555,925
2022	Gateway Farm Rd	Northgate Rd	Cul-de-Sac	CS,Patch & O/L	26,783	1,582,708
2022	Gemstone Dr	Davidson Ridge Rd	Cul-de-Sac	CS,Patch & O/L	25,160	1,607,868

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2022	Giles Rd	Chester Hwy	North End	CS,Patch & O/L	137,140	1,745,008
2022	Hammond Rd	Osborne Farm Rd	Pavement Change	CS,Patch & O/L	29,526	1,774,534
2022	Hickory Ridge Rd	Woodfield Rd	Cul-de-Sac	CS,Patch & O/L	38,136	1,812,670
2022	Kellocreek Ln	York Hwy	Cul-de-Sac	CS,Patch & O/L	97,214	1,909,884
2022	Kendall Dr	Neely Store Rd	Cul-de-Sac	CS,Patch & O/L	52,869	1,962,753
2022	Kincaid Ct	Kendall Dr	Cul-de-Sac	CS,Patch & O/L	21,125	1,983,878
2022	Kingsmill Ln	Landing Pointe Dr	Cul-de-Sac	CS,Patch & O/L	27,886	2,011,764
2022	Lantern Rd	Trappers Run Dr	Trappers Run Dr	CS,Patch & O/L	49,065	2,060,829
2022	Little Dipper Dr	Cul-de-Sac	Forest Music Dr	CS,Patch & O/L	27,355	2,088,184
2022	Longlea Dr	Poplar Forest Rdg	Cul-de-Sac	CS,Patch & O/L	18,811	2,106,995
2022	Love Valley Rd	AC Change	Gettysburg Dr	6in Full Depth & O/L	143,952	2,250,947
2022	Lovelace Rd	Fire Tower Rd	Cul-de-Sac	6in Full Depth & O/L	59,078	2,310,025
2022	Lower Assembly Dr	Sutton Rd N	Sophia Ct	CS,Patch & O/L	11,222	2,321,247
2022	Mandarin Dr	Russell Rd	Cul-de-Sac	CS,Patch & O/L	89,719	2,410,966
2022	Marine Dr	Fire Tower Rd	AC Change	6in Full Depth & O/L	145,566	2,556,532
2022	Moore Rd	Daves Rd	Cameron Rd	CS,Patch & O/L	233,850	2,790,382
2022	Morning Star Rd	Catawba Crest Ln	Cul-de-Sac	CS,Patch & O/L	84,171	2,874,553
2022	Mossborough Dr	York Hwy	Cul-de-Sac	CS,Patch & O/L	13,661	2,888,214
2022	Nations Commons St	First Baxter Xing	Sutton Rd N	CS,Patch & O/L	26,004	2,914,218
2022	Ohenry Ln	Central Av	Cul-de-Sac	CS,Patch & O/L	17,209	2,931,427
2022	Old Pinckney Rd	Shannon St	End County Maintenance	CS,Patch & O/L	53,383	2,984,810
2022	Old Springs Rd	Holbrook Rd	Cul-de-Sac	6in Full Depth & O/L	206,145	3,190,955
2022	Oleander Dr	Pepperwood Pl	Cul-de-Sac	CS,Patch & O/L	28,657	3,219,612
2022	Patrick Place Cir	Ridge Rd	Cul-de-Sac	CS,Patch & O/L	36,189	3,255,801
2022	Pfaff Dr	Justin Dr	Cul-de-Sac	CS,Patch & O/L	39,128	3,294,929
2022	Pinion Pt	Valelake Rd	Cul-de-Sac	CS,Patch & O/L	13,373	3,308,302
2022	Portman Ln S	Cul-de-Sac	Cheval Dr W	CS,Patch & O/L	10,100	3,318,402
2022	Portpatrick Pl	Cranborne Chase	Cranborne Chase	CS,Patch & O/L	62,740	3,381,142
2022	Prescott Dr	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	44,923	3,426,065
2022	Primrose Walk	Cul-de-Sac	Rock Lake Gln	CS,Patch & O/L	13,894	3,439,959
2022	Queen Annes Cv	Hemmingway Ln	Cul-de-Sac	6in Full Depth & O/L	9,459	3,449,418
2022	Rachael Rd	Old York Rd	Cul-de-Sac	CS,Patch & O/L	33,347	3,482,765

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2022	Reece Cir	Irene St	West End	CS,Patch & O/L	12,381	3,495,146
2022	Roadrunner Rd	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	70,035	3,565,181
2022	Robinwood Ln	Charlotte Hwy	Hamiltons Harbor Dr	CS,Patch & O/L	30,381	3,595,562
2022	Saddlewood Dr	Williams Rd	Cul-de-Sac	CS,Patch & O/L	49,011	3,644,573
2022	Sesame St	South End	Trexler Ln	CS,Patch & O/L	12,749	3,657,322
2022	Shannon Meadows Rd	Rhyne Rd	Old Hearth Rd	6in Full Depth & O/L	204,082	3,861,404
2022	Sliding Rock Tr	Dubreils Way	Cul-de-Sac	CS,Patch & O/L	17,254	3,878,658
2022	Sparkston Ln	Channing Park Way	Cul-de-Sac	CS,Patch & O/L	15,761	3,894,419
2022	Stewart St	Charlotte Hwy	Cul-de-Sac	CS,Patch & O/L	77,631	3,972,050
2022	Sturgis Rd	Start County Maintenance	End County Maintenance	CS,Patch & O/L	24,799	3,996,849
2022	Sugar Loaf Ln	Champion Rd	Cul-de-Sac	CS,Patch & O/L	78,787	4,075,636
2022	Summer Creek Ct	Montgomery Dr	Cul-de-Sac	CS,Patch & O/L	36,262	4,111,898
2022	Summerhill Ct	Gentry Ln	Cul-de-Sac	CS,Patch & O/L	15,725	4,127,623
2022	Tanner Commons Ln	Museum Rd	Cul-de-Sac	CS,Patch & O/L	39,839	4,167,462
2022	Tea Olive Ct	Masters Dr	Cul-de-Sac	CS,Patch & O/L	10,765	4,178,227
2022	Turquoise Way	Platinum Dr	Garnet Ct	CS,Patch & O/L	35,351	4,213,578
2022	Warlick Meadow Ct	Kingshire Way	Cul-de-Sac	CS,Patch & O/L	9,442	4,223,020
2022	White Water Dr	Sethwood Dr	Cul-de-Sac	CS,Patch & O/L	8,120	4,231,140
2022	Winding Branch Rd	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	61,209	4,292,349
2022	Woodway Ln	Summer Creek Ct	Cul-de-Sac	CS,Patch & O/L	62,862	4,355,211
2023	A C Ln	Bethel School Rd	Cul-de-Sac	CS,Patch & O/L	30,541	30,541
2023	Acorn Ct	Post Oak Ln	Cul-de-Sac	CS,Patch & O/L	16,790	47,331
2023	Armstrong Ford Rd	Mcconnells Hwy	Cul-de-Sac	CS,Patch & O/L	83,289	130,620
2023	Arnold Dr	Cul-de-Sac	Mack Dr	CS,Patch & O/L	10,912	141,532
2023	Athens Dr	Balkan Dr	Cul-de-Sac	CS,Patch & O/L	20,174	161,706
2023	Autumn Leaf Ln	Winding Path Rd	Cul-de-Sac	CS,Patch & O/L	30,260	191,966
2023	Bent Pine Dr	Chester Hwy	AC Change	CS,Patch & O/L	25,290	217,256
2023	Blue Jay Pass	South End	Nestling Ln	CS,Patch & O/L	33,233	250,489
2023	Border Rd W	Overlook Rd	Williamson Rd	6in Full Depth & O/L	40,861	291,350
2023	Bramlett Rd	Fire Tower Rd	East End	CS,Patch & O/L	44,302	335,652
2023	Bratton Dr	Mcconnells Hwy	Howell Rd	CS,Patch & O/L	36,222	371,874
2023	Broadside Rd	Windswept Cv	Cul-de-Sac	CS,Patch & O/L	45,190	417,064

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2023	Brooktree Ln	Lake Edward Dr	Enterprise Dr	CS,Patch & O/L	37,775	454,839
2023	Brown Neal Rd	Chester Hwy	Cul-de-Sac	CS,Patch & O/L	42,294	497,133
2023	Cap Connolly Rd	Connolly Rd	AC Change	CS,Patch & O/L	35,454	532,587
2023	Carmel Ct	Shillinglaw Rd	South End	CS,Patch & O/L	8,230	540,817
2023	Carrie Estates Dr	Hall Spencer Rd	Cul-de-Sac	CS,Patch & O/L	176,425	717,242
2023	Catawba Wells Ct	Estuary Ct	Cul-de-Sac	CS,Patch & O/L	25,204	742,446
2023	Central Carolinas Pkwy	Highway 21	Width Change/Plant Ent	CS,Patch & O/L	57,234	799,680
2023	Centre Cir	Springhill Farm Rd	Springhill Farm Rd	CS,Patch & O/L	156,161	955,841
2023	Channing Park Way	AC Change	AC Change	CS,Patch & O/L	27,445	983,286
2023	Colonial Rd	Barrett Rd	Declaration Pl	6in Full Depth & O/L	155,189	1,138,475
2023	Coulwood Dr	Flat Rock Rd	Cul-de-Sac	CS,Patch & O/L	55,811	1,194,286
2023	Crestland Dr	Sherwood Rd	Bowling Green Dr	6in Full Depth & O/L	41,335	1,235,621
2023	Croatoan Dr	Marshall Rd	Virginia Dare Dr	6in Full Depth & O/L	175,348	1,410,969
2023	Culp Cir	Lesslie Hwy	Lesslie Hwy	CS,Patch & O/L	33,367	1,444,336
2023	Declaration Pl	Colonial Rd	Cul-de-Sac	CS,Patch & O/L	60,474	1,504,810
2023	Dunwoody Av	Henry St	Cul-de-Sac	CS,Patch & O/L	48,689	1,553,499
2023	Fairwood Dr	Fairhope Rd	Cul-de-Sac	6in Full Depth & O/L	60,925	1,614,424
2023	Fancy Lady Ct	Dolly Rose Dr	Cul-de-Sac	CS,Patch & O/L	9,614	1,624,038
2023	Farm Branch Dr	Elmhurst Dr	Cul-de-Sac	CS,Patch & O/L	50,100	1,674,138
2023	Fieldbrook Rd	Bowater Rd	Cul-de-Sac	CS,Patch & O/L	22,154	1,696,292
2023	Fields Farm Rd	Old Friendship Rd	Knotty Branch Tr	CS,Patch & O/L	29,369	1,725,661
2023	Garys Cir	Whitley Rd	Garys Cir	CS,Patch & O/L	81,222	1,806,883
2023	Gentry Ln	Mt Gallant Rd W	Cul-de-Sac	CS,Patch & O/L	47,541	1,854,424
2023	Glen Hollow Dr	Vander Lakes Dr	Cul-de-Sac	CS,Patch & O/L	50,741	1,905,165
2023	Hackberry Dr	Woodfield Rd	Cul-de-Sac	CS,Patch & O/L	17,084	1,922,249
2023	Henson Ln	Chester Hwy	Cul-de-Sac	CS,Patch & O/L	177,521	2,099,770
2023	Hickory Nut Ct	Country Oaks Dr	Cul-de-Sac	CS,Patch & O/L	33,323	2,133,093
2023	High Hills Ct	Allison Bluff Tr	Cul-de-Sac	CS,Patch & O/L	3,343	2,136,436
2023	Irish Green Dr	AC Change	Iron Works Dr	CS,Patch & O/L	6,319	2,142,755
2023	Kennedy Rd	Catoe Dr	North End	CS,Patch & O/L	7,590	2,150,345
2023	Kingfisher Dr	Concord Rd	East End	CS,Patch & O/L	72,715	2,223,060
2023	Kinghurst Dr	Porter Rd	Cul-de-Sac	CS,Patch & O/L	24,359	2,247,419

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2023	Lake Edward Dr	Marshall Rd	Cul-de-Sac	CS,Patch & O/L	49,599	2,297,018
2023	Langley Ct	Danfield Dr	Cul-de-Sac	CS,Patch & O/L	23,073	2,320,091
2023	Liberty Hill Rd W	Charlotte Hwy	Liberty Hill Rd W	6in Full Depth & O/L	184,060	2,504,151
2023	Live Oaks Ct	Dobys Bridge Rd S	Cul-de-Sac	6in Full Depth & O/L	12,425	2,516,576
2023	Mallard Creek Dr	Hands Mill Hwy	Blue Wing Ct	CS,Patch & O/L	43,928	2,560,504
2023	Matlock Dr	Black Hwy	Cul-de-Sac	CS,Patch & O/L	103,901	2,664,405
2023	Monarch Dr	Boatshore Rd	Painted Lady Ct	CS,Patch & O/L	7,458	2,671,863
2023	Mossfield Ct	Canebrook Gln	Cul-de-Sac	CS,Patch & O/L	15,688	2,687,551
2023	Mustang Ln	York Hwy	South End	CS,Patch & O/L	31,045	2,718,596
2023	Oakmont Dr	Oakridge Meadows Ct	North End	CS,Patch & O/L	22,395	2,740,991
2023	Old Cedar Cir	Timber Creek Dr	Fawn Forest Ln	CS,Patch & O/L	89,498	2,830,489
2023	Old Cedar Cir	Old Cedar Cir	Cul-de-Sac	CS,Patch & O/L	43,500	2,873,989
2023	Ole Cambridge Cir	Ole Cambridge Cir	End County Maintenance	CS,Patch & O/L	30,828	2,904,817
2023	Orion Rd	Star Rd	Cul-de-Sac	CS,Patch & O/L	35,391	2,940,208
2023	Ormand Rd	Lincoln Rd	Willow Landing Dr	6in Full Depth & O/L	127,433	3,067,641
2023	Palmers Pl	Eagle Lair Dr	Cul-de-Sac	CS,Patch & O/L	17,047	3,084,688
2023	Pathway Dr	Spicewood Dr	North End	CS,Patch & O/L	23,734	3,108,422
2023	Peace Rd	Dobys Bridge Rd S	Cul-de-Sac	CS,Patch & O/L	16,894	3,125,316
2023	Peninsula Dr	Mill Pond Rd	Cul-de-Sac	CS,Patch & O/L	23,367	3,148,683
2023	Peridot Dr	Garnet Ct	Cul-de-Sac	CS,Patch & O/L	14,835	3,163,518
2023	Pine Moss Ln	Montgomery Rd	Fawns Glen Pl	CS,Patch & O/L	10,103	3,173,621
2023	Pine Point Dr	Windswept Cv	AC Change	CS,Patch & O/L	18,848	3,192,469
2023	Pine Swept Dr	Bent Pine Dr	AC Change	CS,Patch & O/L	13,594	3,206,063
2023	Platinum Dr	Turquoise Way	Turquoise Way	CS,Patch & O/L	95,706	3,301,769
2023	Press-Wallace Dr	Ramah Church Rd	West End	CS,Patch & O/L	24,262	3,326,031
2023	Ramrod Rd	Reservation Rd	Cul-de-Sac	6in Full Depth & O/L	21,077	3,347,108
2023	Ratterree Farm Rd	Old Friendship Rd	South End	CS,Patch & O/L	30,571	3,377,679
2023	Red Pawn Dr	Four Knights Ln	Cul-de-Sac	CS,Patch & O/L	33,908	3,411,587
2023	Rhododendron Pl	Poplin Pl	Lantana Ln	CS,Patch & O/L	43,500	3,455,087
2023	Richards Landing Dr	Marshall Rd	Cul-de-Sac	CS,Patch & O/L	74,709	3,529,796
2023	Ridgewood Dr	Ridgewood Dr	Worsham Ln	CS,Patch & O/L	13,373	3,543,169
2023	Ridgewood Dr	Worsham Ln	Ridgewood Drive North	CS,Patch & O/L	56,469	3,599,638

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2023	Riverfork Rd	Baird Rd	Cul-de-Sac	CS,Patch & O/L	164,695	3,764,333
2023	Riverfront Rd	Evergreen Rd	Carithers Ct	6in Full Depth & O/L	51,108	3,815,441
2023	Sandy Hill Rd	Daves Rd	Cul-de-Sac	CS,Patch & O/L	125,811	3,941,252
2023	Smythe Rd	Sutton Rd S	Sutton Rd S	CS,Patch & O/L	47,194	3,988,446
2023	Snow Prince Ln	Summer Sweet Dr	Dolly Rose Dr	CS,Patch & O/L	28,462	4,016,908
2023	Solitude Ct	Rock Castle Dr	Cul-de-Sac	CS,Patch & O/L	15,030	4,031,938
2023	Somerset Ct	Devonshire Dr	Cul-de-Sac	CS,Patch & O/L	6,580	4,038,518
2023	Spring Box Ct	Cul-de-Sac	Summer House Way	CS,Patch & O/L	4,446	4,042,964
2023	Star Cluster Dr	Cul-de-Sac	Aquarius Dr	CS,Patch & O/L	8,772	4,051,736
2023	Stonehaven Ct	Holland Dr	West End	CS,Patch & O/L	20,366	4,072,102
2023	Swaying Branch Ln	Winding Path Rd	Cul-de-Sac	6in Full Depth & O/L	76,975	4,149,077
2023	Tart Rd	Highway 161 S	Cul-de-Sac	CS,Patch & O/L	68,747	4,217,824
2023	Tioga Pointe Ln	Lake Wylie Rd	Cul-de-Sac	CS,Patch & O/L	18,637	4,236,461
2023	Tradewinds Ln	Cul-de-Sac	Cul-de-Sac	6in Full Depth & O/L	159,549	4,396,010
2023	Trollingwood Ct	Lake Bluff Ln	Cul-de-Sac	6in Full Depth & O/L	14,641	4,410,651
2023	Walker Wade Rd	Hickory Grove Rd	Cul-de-Sac	CS,Patch & O/L	44,308	4,454,959
2023	Watling St	Starlight Dr	Cul-de-Sac	6in Full Depth & O/L	43,645	4,498,604
2023	Wesley Woods Dr	Cul-de-Sac	Museum Rd	CS,Patch & O/L	66,058	4,564,662
2023	Wildbrook Walk	South Downs Way	Cul-de-Sac	CS,Patch & O/L	6,536	4,571,198
2023	Windsong Forest Rd	Lloyd White Rd	Cul-de-Sac	CS,Patch & O/L	96,112	4,667,310
2024	Ann Shaw Av	Choate Av	Cul-de-Sac	CS,Patch & O/L	9,168	9,168
2024	Apple Blossom Rd	Apple Blossom Rd	Apple Blossom Rd	6in Full Depth & O/L	441,158	450,326
2024	Arbor Ct	Coventry Ln	Cul-de-Sac	CS,Patch & O/L	15,431	465,757
2024	Aristides Dr	Real Quiet Ct	Silver Charm Ln	CS,Patch & O/L	46,332	512,089
2024	Ashland Oaks Dr	Anderson Rd S	AC Change	CS,Patch & O/L	52,722	564,811
2024	B J Jackson Rd	Mt Gallant Rd	South End	CS,Patch & O/L	50,591	615,402
2024	Barney Rhett Cir	Homestead Rd	Twin Lakes Rd	CS,Patch & O/L	69,499	684,901
2024	Barrett Ct	Elder Rd	North End	CS,Patch & O/L	16,937	701,838
2024	Belle Meade Dr	Northway Dr	East End	CS,Patch & O/L	14,579	716,417
2024	Bethel Ln	Chandler Rd	Cul-de-Sac	CS,Patch & O/L	28,858	745,275
2024	Birdie Ln	Mathis Rd	Cul-de-Sac	CS,Patch & O/L	22,311	767,586
2024	Blair Ct	Whispering Woods Rd	Cul-de-Sac	CS,Patch & O/L	16,914	784,500

York County  
Major Rehabilitation Program - Expected Budget

2024	Blanton Rd	Mcconnells Hwy W	Morningview Rd	CS,Patch & O/L	389,039	1,173,539
2024	Boyer Dr	Pleasant Rd	Cul-de-Sac	CS,Patch & O/L	39,045	1,212,584
2024	Brook Creek Ct	Glen Hollow Dr	Cul-de-Sac	CS,Patch & O/L	22,448	1,235,032
2024	Brookhollow Dr	Chipmeadow Ln	Applewood Ln	CS,Patch & O/L	32,147	1,267,179
2024	Bubbling Brook Dr	Cool Creek Dr	Allison Cir	CS,Patch & O/L	19,619	1,286,798
2024	Bush Rd	Highway 55 W	End AC	CS,Patch & O/L	78,456	1,365,254
2024	California Rd	Sharon Rd	End County Maintenance	CS,Patch & O/L	68,937	1,434,191
2024	Canvasback Duck Dr	Flamingo Rd	Roadrunner Rd	CS,Patch & O/L	27,355	1,461,546
2024	Captain White Dr	Croatoan Dr	Cul-de-Sac	CS,Patch & O/L	15,063	1,476,609
2024	Carithers Ct	Riverfront Rd	Cul-de-Sac	CS,Patch & O/L	17,234	1,493,843
2024	Circle B Lake Rd	Fencepost Ln	Cul-de-Sac	CS,Patch & O/L	27,084	1,520,927
2024	Citron Av	Turquoise Way	Cul-de-Sac	CS,Patch & O/L	3,928	1,524,855
2024	Clarence Julian Av	Sharon Lee Av	Cul-de-Sac	CS,Patch & O/L	11,713	1,536,568
2024	Commodore Pl	Lake Wylie Rd	Cul-de-Sac	CS,Patch & O/L	31,423	1,567,991
2024	Compton Rd	Chimney Ford Rd	Cul-de-Sac	CS,Patch & O/L	32,147	1,600,138
2024	Country Lodge Rd	Country Haven Ln	End County Maintenance	CS,Patch & O/L	23,046	1,623,184
2024	Country Pride Ln	Old Friendship Rd	North End	CS,Patch & O/L	17,014	1,640,198
2024	Covered Bridge Ct	Bubbling Brook Dr	Cul-de-Sac	CS,Patch & O/L	55,183	1,695,381
2024	Creekstone Ln	Kingsburry Rd	Cul-de-Sac	CS,Patch & O/L	104,819	1,800,200
2024	Crooked Pine Ct	Bent Pine Dr	South End	CS,Patch & O/L	11,500	1,811,700
2024	Daniel Rd	Apple Blossom Rd	Cul-de-Sac	CS,Patch & O/L	90,380	1,902,080
2024	Doncaster Dr	Twin Lakes Rd	Cul-de-Sac	CS,Patch & O/L	35,551	1,937,631
2024	Drew Av	Sharon Lee Av	Choate Av	CS,Patch & O/L	45,486	1,983,117
2024	Driftstone Tr	Lawrence Rd	North End	CS,Patch & O/L	16,276	1,999,393
2024	Duck Cove Ln	Sand Tar Dr	West End	CS,Patch & O/L	44,128	2,043,521
2024	Dusty Bridge Rd	Peachtree Rd	Springvalley Rd	CS,Patch & O/L	22,338	2,065,859
2024	Eastview St	Hilltop Ln	Saturn Ln	CS,Patch & O/L	27,488	2,093,347
2024	Estuary Ct	Allison Cir	Cul-de-Sac	CS,Patch & O/L	23,918	2,117,265
2024	Falcon Ln	Summer Spring Ln	Cul-de-Sac	CS,Patch & O/L	6,067	2,123,332
2024	Falling Leaf Ct	Arrowwood Ln	Cul-de-Sac	CS,Patch & O/L	11,316	2,134,648
2024	Flying Eagle Dr	Faulkner Rd	Cul-de-Sac	CS,Patch & O/L	38,944	2,173,592
2024	Gray Dove Ln	Windy Run Ln	Cul-de-Sac	CS,Patch & O/L	19,362	2,192,954

York County  
Major Rehabilitation Program - Expected Budget

2024	Greenfront Ct	Sand Paver Way	Cul-de-Sac	CS,Patch & O/L	7,435	2,200,389
2024	Grove Tree Ln	Morning Dove Way	Leesburg Dr	CS,Patch & O/L	31,817	2,232,206
2024	Harry Pendleton Rd	Old North Main St	West End	CS,Patch & O/L	33,837	2,266,043
2024	Harvester Av	Drew Av	Sharon Lee Av	CS,Patch & O/L	49,659	2,315,702
2024	Hitching Post Ln	Brookridge Dr	Ridgeway Ln	CS,Patch & O/L	63,376	2,379,078
2024	Hoke Ln	Neelys Creek Rd	Cul-de-Sac	CS,Patch & O/L	28,046	2,407,124
2024	Kearney Ln	Dobys Bridge Rd S	Cul-de-Sac	CS,Patch & O/L	60,654	2,467,778
2024	Lake Bluff Ln	Glen Hollow Dr	Cul-de-Sac	CS,Patch & O/L	50,100	2,517,878
2024	Lakedale Dr	Fewell Rd	Northmill Ct	6in Full Depth & O/L	114,578	2,632,456
2024	Lakewinds Dr	Paraham Rd S	Cul-de-Sac	CS,Patch & O/L	22,999	2,655,455
2024	Land Grant Ct	Hands Mill Hwy	Cul-de-Sac	CS,Patch & O/L	25,681	2,681,136
2024	Laurelwood Dr	Highway 55 W	Highway 55 W	CS,Patch & O/L	103,864	2,785,000
2024	Lilly Dr	Cul-de-Sac	Cul-de-Sac	CS,Patch & O/L	49,452	2,834,452
2024	Little Branch Dr	AC Change	Lakeford Ln	6in Full Depth & O/L	37,508	2,871,960
2024	Little Rock Rd	Richards Landing Dr	Kinsey Creek Ct	CS,Patch & O/L	60,217	2,932,177
2024	Longfield Rd	Plum Tree Dr	Cul-de-Sac	CS,Patch & O/L	34,021	2,966,198
2024	Love Valley Rd	Gettysburg Dr	End County Maintenance	CS,Patch & O/L	55,477	3,021,675
2024	M F Stewart Rd	Lawrence Rd	North End	CS,Patch & O/L	38,687	3,060,362
2024	Mallard Creek Dr	Blue Wing Ct	Cul-de-Sac	CS,Patch & O/L	29,980	3,090,342
2024	Mariners Bluff Rd	Allison Creek Rd	River Stone Ct	CS,Patch & O/L	12,391	3,102,733
2024	Mary Ellen Dr	Pleasant Rd	Cul-de-Sac	CS,Patch & O/L	90,841	3,193,574
2024	Masters Dr	Mt Gallant Rd	Cul-de-Sac	CS,Patch & O/L	47,541	3,241,115
2024	Mcclain Dr	Mt Gallant Rd	North End	CS,Patch & O/L	55,661	3,296,776
2024	Misty Hill Rd	Cul-de-Sac	Ormand Rd	CS,Patch & O/L	45,501	3,342,277
2024	Mitchum Rd	Lesslie Hwy	Cul-de-Sac	CS,Patch & O/L	28,858	3,371,135
2024	Mockingbird Ln	Williamson Rd	West End	CS,Patch & O/L	54,522	3,425,657
2024	Montgomery Rd	Pine Moss Ln	Montgomery Rd	CS,Patch & O/L	181,936	3,607,593
2024	Moonstone Av	Garnet Ct	Platinum Dr	CS,Patch & O/L	10,205	3,617,798
2024	Natures Trail Ct	Mcconnells Hwy	Cul-de-Sac	CS,Patch & O/L	24,873	3,642,671
2024	Oak Crest	Saratoga Dr	Forest Oaks Dr	CS,Patch & O/L	14,997	3,657,668
2024	Oak Park Rd	Oak Park Rd	Mcconnells Hwy	CS,Patch & O/L	67,748	3,725,416
2024	Panthers Way	Choate Av	Cul-de-Sac	CS,Patch & O/L	19,238	3,744,654



York County  
Major Rehabilitation Program - Expected Budget

2024	Pasley Pl	Guinn St	West End	CS,Patch & O/L	13,888	3,758,542
2024	Pine Swept Dr	AC Change	West End	CS,Patch & O/L	13,337	3,771,879
2024	Pineland Ct	Rutledge Dr	Cul-de-Sac	CS,Patch & O/L	22,395	3,794,274
2024	Quality Cir	Red River Rd	AC Change	CS,Patch & O/L	15,531	3,809,805
2024	Queens Hollow Rd	South End	Old Limestone Rd W	CS,Patch & O/L	27,054	3,836,859
2024	Red Oaks Dr	Mcconnells Hwy	Red Oaks Dr	CS,Patch & O/L	167,093	4,003,952
2024	Ridge Ct	Dove Tree Ln	West End	CS,Patch & O/L	29,502	4,033,454
2024	River Stone Ct	Mariners Bluff Rd	Cul-de-Sac	CS,Patch & O/L	19,178	4,052,632
2024	Rolling Stream Dr	Sethwood Dr	Cul-de-Sac	CS,Patch & O/L	19,876	4,072,508
2024	Saddle Dr	Charlotte Hwy	Canter Ln	CS,Patch & O/L	127,840	4,200,348
2024	Sand Tar Dr	Concord Rd	Duck Cove Ln	CS,Patch & O/L	49,208	4,249,556
2024	Shimmer Light Cir	Sunset Point Dr	Elks Park Rd	CS,Patch & O/L	89,899	4,339,455
2024	Silver Charm Ln	Aristides Dr	Cul-de-Sac	CS,Patch & O/L	44,489	4,383,944
2024	South Downs Way	Bailiwyck Grn	Bailiwyck Grn	CS,Patch & O/L	41,122	4,425,066
2024	Spring Breeze Ct	Springwinds Dr	Cul-de-Sac	CS,Patch & O/L	12,712	4,437,778
2024	Summer Sweet Dr	Shiloh Rd N	Cul-de-Sac	CS,Patch & O/L	29,058	4,466,836
2024	Summit Dr	Sawmill Rd	Smith Ford Rd	CS,Patch & O/L	32,221	4,499,057
2024	Sunset Point Dr	Bitter Brook Ct	Boardwalk Run	CS,Patch & O/L	44,168	4,543,225
2024	Sweetbay Ln	Vermilion Dr	Cul-de-Sac	CS,Patch & O/L	26,673	4,569,898
2024	Swinging Tree Ln	Paraham Rd S	Cul-de-Sac	CS,Patch & O/L	54,559	4,624,457
2024	Tarleton Ln	Chester Hwy	Cul-de-Sac	CS,Patch & O/L	100,961	4,725,418
2024	Tenacity Ct	Impulse Ln	Cul-de-Sac	CS,Patch & O/L	17,702	4,743,120
2024	Twisted Oak Ln	Windsong Forest Rd	AC Change	CS,Patch & O/L	9,920	4,753,040
2024	Valley Meadows Dr	Cameron Rd	Cul-de-Sac	CS,Patch & O/L	37,218	4,790,258
2024	Vander Lakes Dr	Cul-de-Sac	Glen Hollow Dr	CS,Patch & O/L	59,960	4,850,218
2024	Wallace Ct	Hands Mill Hwy	Cul-de-Sac	CS,Patch & O/L	22,375	4,872,593
2024	Wesley Amaker Rd	Alexander Love Hwy W	Cul-de-Sac	CS,Patch & O/L	75,751	4,948,344
2024	Willis Ct	Lillian Ln	Cul-de-Sac	6in Full Depth & O/L	20,889	4,969,233
2024	Windstone Rd	Fairhill Cir	Cul-de-Sac	CS,Patch & O/L	27,355	4,996,588

# Memorandum

**To:** Steve Bosco  
**From:** David Arndt, IT Analyst  
**Date:** 09/06/2017  
**Re:** Recommended vendor for Police Camera System

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The Police department security camera server has reached its end of life. The hardware on the server is failing at a rate of one hard drive per month. If more than two drives fail at one time all archived footage will be lost. This has already occurred on two occasions. In addition to the hardware issues, the operating system of the server is no longer supported by Microsoft and has become a security risk.

Staff determined the best software solution would be to replace the Milestone software with Avigilon. Avigilon is currently being used for village hall, public works and both water treatment plants. Having one platform across all village facilities would allow for full integration of our video security systems. This would allow police staff to view cameras at all village facilities and users access can be centrally managed via active directory integration. Avigilon software is purchased once with no annual maintenance is required.

Staff worked with Avigilon sales and engineering staff to determine the best possible solution which meets all state and federal laws and regulations regarding video and audio recording and retention. The system recommended will provide high definition quality video which is easily exportable.

Staff received eight proposals from authorized reputable contractors to acquire, install and configure a replacement security camera system. Staff fully reviewed and scored the proposals based on overall completeness, reference checks, and total cost. Staff recommends based on the review, Griffon Systems of Elmhurst IL for the project. Griffon systems proposal was complete, the overall cost was the lowest and below budget. In addition to their proposal Griffon systems displayed forward thinking and exceptional attention to detail. They identified incorrect hardware recommendations made by the manufacturer engineers, and were the most engaged during the walk through and the follow up question period.

## Project Budget \$55,000

Company	Price Quoted
Griffon Systems	\$50,825.00
Pentegra Systems	\$58,379.00
Stanley Security	\$58,750.00
Engineered Security and Sound	\$60,895.00
Applied Communications Group	\$63,137.84
Video and Sound Service	\$71,590.00
Imperial Surveillance	\$76,800.25
Convergint	\$92,897.00