City of Moline
619 16 Street, Moline – 2nd Floor
Council Chambers

Committee-of-the-Whole Agenda

6:30 p.m.

Tuesday, May 24, 2016

Oath of Office

Oath of office for promotional appointment of Lieutenant John Hitchcock to the rank of Police Captain, Pedro Valladares, Jr. to the rank of Police Lieutenant, and Kenneth C. Monti II to the rank of Police Sergeant, effective May 21, 2016.

Presentation

Update of Library Information and Projects (Bryon Lear, Library Director)

Questions on the Agenda

Agenda Items

1. **WIU Fence Repair** (Doug House, Municipal Services General Manager)
2. **Sidewalk Variance** (Shawn Christ, Land Development Manager)
3. **Sale of Real Property** (Amy Keys, Deputy City Attorney)
4. **Agreement with Geneseo Communications** (Nate Scott, IT Manager)
5. **Actuarial Reports** (Kathy Carr, Finance Director)
6. **Fire & Police Commission Rule Changes** (Alison Fleming, HR Manager)
7. **Justice Assistance Grant** (Kim Hankins, Public Safety Director)
8. **Drainage Easement** (Scott Hinton, City Engineer)
9. **Prevailing Wage** (Scott Hinton, City Engineer)
10. **Other**
11. **Public Comment**

Explanation

1. **A Resolution authorizing the approval of the estimate from Interstate Fence & Construction Company for the amount of $17,250.00, to repair the fence located on City Right-of-Way between Western Illinois University (WIU) campus and Midland Davis Corporation.** (Doug House, Municipal Services General Manager)

Explanation: Staff received quotations to repair the damaged fence located between Western Illinois University (WIU) campus and Midland Davis Corporation located on City Right-of-Way. This is the second time since installation that the fence has needed repair. This fence contains decorative panels and during periods of heavy winds they become dislodged and damaged. To prevent this from happening in the future, Engineering Staff recommends that the fence fabric should be placed on the opposite side for more strength and stability. Staff contacted four fencing companies and Interstate Fence & Construction Company submitted the only estimate in the amount of $17,250.00. Additional documentation attached.

Staff Recommendation:	Approval
Fiscal Impact:	General Fund Contingency
Public Notice/Recording:	N/A
Goals Impacted:	Upgrade City Infrastructure & Facilities ~ A Great Place to Live

2. **A Special Ordinance granting a variance to Section 28-3200(a) of the Moline Code of Ordinances to relocate installation of a sidewalk for property located at 711 41st Avenue Drive.** (Shawn Christ, Land Development Manager)

Explanation: Build to Suit, Inc., the developer of the property addressed as 711 41st Avenue Drive (Parcel #07-14551), has requested a variance from installing sidewalks at the required location (east side of 7th Street) due to a severe slope, existing wetland, and decreasing the capacity of the storm water ditch by having to add fill for the installation of the sidewalk, which constitutes a hardship on the subject property. Additional documentation attached.

Staff Recommendation:	Approval
Public Notice/Recording:	N/A
Fiscal Impact:	N/A
Goals Impacted:	A Great Place to Live

3. **A Special Ordinance declaring the property at 422 38th Street, Moline, as surplus; and authorizing the Mayor and City Clerk to execute an Agreement for Sale of Real Estate and do all things necessary to convey the City-owned property at 422 38th Street, Moline, to Steven and Cheryl Dufur.** (Amy Keys, Deputy City Attorney)

Explanation: The City acquired the property at 422 38th Street as a result of abandoned building proceedings. Contractors and other individuals expressed interest in rehabilitating and purchasing this property. The City published a request for proposals for the purchase and rehabilitation of 422 38th Street on April 19, 2016, and Steven and Cheryl Dufur ("Buyers") submitted the proposal most advantageous to the City. Buyers have offered to purchase 422 38th Street for $15,500.00 and promises to complete interior and exterior repair and restoration of the building on said property by October 31, 2016, with possible extension of the completion date as may be agreed to in writing by the parties, but not later than January 31, 2017. Staff recommends accepting this proposal so this project can begin as soon as possible and result in the repair and restoration of a blighted property. This property was in arrears for the 2011, 2012, 2013 and 2014 property taxes. Those property taxes have been deemed null and void by the County Treasurer pursuant to 65 ILCS 5/11-31-1 and 35 ILCS 200/21-95. The property taxes for 2015 payable in 2016 have been deemed exempt. Buyers will be responsible for paying their pro-rated share of the 2016 taxes from the date of closing until December 31, 2016, and all future taxes thereafter. Additional documentation attached.

Staff Recommendation:	Approval
Fiscal Impact:	N/A

Public Notice/Recording: Law Department will record Quit Claim Deed
Goals Impacted: A Great Place to Live

4. **Approval to enter into WAN and ISP agreements with Geneseo Communications.** (Nate Scott, Information Technology)

Explanation: Staff published a Request for Proposals for two major services: a 20-year Indefeasible Right of Use (IRU) for a dark fiber Wide Area Network (WAN) and a 10-year contract for a 1 Gigabyte-per-second internet service provider (ISP). Three vendors responded and Geneseo Communications submitted the lowest responsive bid for both services. The dark fiber WAN IRU will give the City exclusive rights to four fiber strands which will connect 28 city facilities. The fiber WAN will replace existing City telecommunication services and increase the speed of the network by 10-fold at a minimum. The ISP contract will replace existing City and Library ISP services and will provide a 15-fold minimum upgrade for that shared service. The fiber WAN contract will save the City approximately $554,000 over a 20-year term and the ISP will save the City $10,900 per year on internet service. Additional documentation attached.

Staff Recommendation: Approval.
Fiscal Impact: $300,000 in 2016 from IT and Utility Reserves; beginning in 2017, annual savings of $38,575
Public Notice/Recording: N/A
Goals Impacted: Financially Strong City, Upgrade City Infrastructure and Facilities

5. **A Resolution accepting the actuarial valuation reports submitted by Lauterbach & Amen for the contribution year ending December 31, 2016 for the City of Moline Police and Firefighters' Pension Funds.** (Kathy Carr, Finance Director)

Explanation: The sworn Police and Fire personnel of the City of Moline are covered by two pension plans that are defined-benefit, single-employer pension plans. The purpose of the annual actuarial valuation reports is to provide the annual recommended amounts for the City's employer contributions. Todd Schroeder, an actuary with Lauterbach & Amen, will present the reports and answer questions.

Staff Recommendation: Approval
Fiscal Impact: Increases the funding levels by $289,437 for Police Pension and $316,499 for Firefighters' Pension.
Public Notice/Recording: Finance staff will file with Illinois Department of Insurance, Public Pension Division.
Goal Impacted: Financially Strong City

6. **A Resolution considering all Rules and Regulations adopted by the Board of Fire and Police Commissioners (Board) concerning "Chapter IV – Promotions – Police;" and approving same as an exercise of the City's home rule powers.** (Alison Fleming, Human Resources Manager)

Explanation: The Board of Fire and Police Commissioners approved changes to its Rules and Regulations at its May 18, 2016 meeting. Said changes will result in a more efficient and cost effective assessment center process for police lieutenant promotions. Additional documentation attached.

Staff Recommendation: Approval
Fiscal Impact: N/A
Public Notice/Recording: Newspaper Publication
Goals Impacted: A Great Place to Live

7. **A Resolution authorizing the Mayor and City Clerk to execute a Memorandum of Understanding between the City of Moline, City of Rock Island, and County of Rock Island, setting forth the terms for submitting a joint application for funding available through the US Department of Justice 2016 Byrne Justice Assistance Grant (JAG) Program.** (Kim Hankins, Chief of Police/Public Safety Director)

Explanation: Moline, Rock Island, and Rock Island County law enforcement agencies are eligible to submit a joint application for a total of $29,003.00 to be awarded through the J.A.G. program. The Allocations and Disparate Information listing published by the Department of Justice specifies the award level for Moline and Rock Island, with Rock Island County listed as a disparate jurisdiction entitled to request a share. The individual allocations will be $2,900.30 to Rock Island County, $14,678.10 to Rock Island, and $11,424.60 to Moline. Moline's share will be utilized to purchase Taser units to replace very old existing Tasers as they are taken out of service. No matching funds are required under the grant. Additional documentation attached.

Staff Recommendation:	Approval
Fiscal Impact:	$11,424.60 grant award
Public Notice/Recording:	Public notice through published agenda and open meeting process
Goal Impacted:	Financially Strong City

8. **A Resolution authorizing the Mayor and City Clerk to accept a Permanent Storm Sewer and Drainage Easements for Project #1248, 9th Street A, 33rd to 34th Avenue Upgrade, on the following Parcel: Parcel 07144-1 from Stephanie A. Acri.** (City Engineer, Scott Hinton)

Explanation: City of Moline Project #1248, 9th Street A, 33rd to 34th Avenue Upgrade, includes the installation of PCC pavement, replacement of water main, replacement of sanitary sewer, and the installation of storm sewer. Permanent Utility and Drainage Easements for Project #1248, 9th Street A, 33rd to 34th Avenue Upgrade, are necessary to allow work to take place on privately-owned property and to allow the City of Moline to maintain these improvements in the future. Additional documentation attached.

Staff Recommendation:	Approval
Fiscal Impact:	Rock Island County Recording Costs
Public Notice/Recording:	Engineering Department will record
Goals Impacted:	Upgrade City Infrastructure & Facilities

9. **A Special Ordinance repealing Special Ordinance No. 4023-2015 which declared the prevailing rate of wages to be paid workers on public works projects, and ascertaining and declaring the prevailing rate of wages to be paid to certain laborers, mechanics and other workers performing public works for the City of Moline within Rock Island County.** (Scott Hinton, City Engineer)

Explanation: State statute requires the City annually adopt an ordinance setting prevailing wage to be paid on City projects. This Special Ordinance repeals Special Ordinance No. 4023-2015 which declared the prevailing wages for 2015.

Staff Recommendation:	Approval
Fiscal Impact:	N/A
Public Notice/Recording:	File with the Secretary of State and Department of Labor.
Goals Impacted:	N/A

Interstate Fence & Construction Company

15591 N. 1600th Avenue
Geneseo, IL 61254
Phone: 309-944-3585 Fax: 309-944-3587
AP Dept: 309-945-2645

Estimate

Date	Estimate #
4/5/2016	653

Name / Address
Moline Public Works 3635 4th Ave. Moline IL. 61265

Project

Description	Qty	Cost	Total
Provide and install 650' of 6' tall 9 gage galvanized chain link fence fabric with gray pre inserted slats onto existing framework. We are also to replace 420' of top rail and 10 posts and straighten the posts that are slightly bent. All labor is to be paid prevailing wage.		13,150.00	13,150.00
Labor and ties to remove the rest of the fabric and install on the opposite side of the framework.		4,100.00	4,100.00

Thank you for the opportunity to work with you!

Total $17,250.00

Customer Signature ______________________

APPLICATION
Request for Variance
To Delay Installation of a Public Sidewalk

CITY OF MOLINE ILLINOIS

For Staff Use Only
Date: 4-25-16
Case #: PC 16-01
$400.00 Application Fee
(NON-REFUNDABLE)

APPLICANT:

Name: Build to Suit, Inc   Interest in Property: Contract Holder

Address: 1805 State Street Suite 101 Bettendorf, IA 52722

Phone: 563-355-2022   Email: kevink@buildtosuitinc.com

LEGAL DESCRIPTION OF PROPERTY (from deed or survey):

Lot 1, Riverplace Centre Subdivision, in the City of Moline, County of Rock Island, Illinois.

Parcel 14551

______________ also known as ______________ (address) and zoned ________.

APPLICANT REQUEST:

The applicant petitions the City Council for a variance to delay construction of a public sidewalk at the above location.

APPROVAL POLICY AND CRITERIA:

Sidewalks are a fundamental component of good land development. Sidewalks provide essential linkages between neighborhoods, allow for the safe movement of the pedestrian public, and contribute to the community's health, safety, and welfare by enhancing those areas of the public realm. The Subdivision Code explicitly states: "Sidewalks shall be installed on both sides of all streets. Sidewalks shall be installed at the time the lot is developed or prior to issuance of the Occupancy Permit."

A request for a variance to the sidewalk requirements of the Subdivision Code is not always permanent, and it may not reduce the expense required to install a sidewalk. The City Council reserves the right to require installation of a sidewalk at a later date as circumstances change, or it may require the developer or property owner to pay an amount equal to the cost of installing the sidewalk for which the variance has been sought.

A variance is not a right. It may be granted to an applicant only if the applicant establishes that strict adherence to this Code will result in undue hardship because of site characteristics that are not applicable to most other properties. Such variances shall be granted only when the applicant establishes that all of the following criteria are satisfied (please respond to each of the following criteria):

1. **An unnecessary hardship exists that was created by topographical or other conditions peculiar to this site.**
   The slopes along the east side of 7th Street are severe. Complicating the issue are utility poles that will require the sidewalk to be placed further behind the curb to the east thus creating more fill to get a surface wide enough to place the sidewalk. Further complicating this fill process are wetland areas at the toe of the slope.
   See attached email from Illinois DOT on the issue.

2. **Pedestrian Safety.**

Due to the slopes present, if we were able to install a sidewalk it would require guardrails for safety.

We feel the proposed installation on the west side of 7th Street will be much safer.

3. **The proximity of connection to the existing sidewalk network.**

There is one sidewalk in the area, coming from the south.

4. **Planned future development or redevelopment of surrounding properties.**

This is the last lot to be developed in the area.

5. **The classification of street and its type of construction.**

6. **Planned future street improvements.**

(If you have additional comments, please attach to the application.)

Signature of Applicant: ____________ Date: 3/8/16

GENERAL NOTES

1. ALL IMPROVEMENTS SHOWN ON THESE ENGINEERING PLANS SHALL COMPLY WITH THE ***CITY OF MOLINE*** DESIGN AND SPECIFICATIONS, LATEST EDITION, AND THE STANDARDS OF THE ***ILLINOIS*** DEPARTMENT OF NATURAL RESOURCES, LATEST EDITION.
2. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS, AND FIELD INVESTIGATION. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO.
3. ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE PROPERLY DISPOSED OF OFF-SITE.
4. THE CONTRACTOR SHALL EXERCISE PROPER CAUTION TO PROTECT THE EXISTING IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE.

GRADING NOTES

1. ALL ELEVATIONS SHOWN ARE TO FLOWLINE FINISHED GRADE OR TOP OF PAVEMENT UNLESS OTHERWISE STATED.
2. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREAS. DO NOT ALLOW WATER TO DRAIN TO POND ON PROPERTY.
3. PRIOR TO PLACEMENT OF ANY FILL, THE STRIPPED SITE SHALL BE SCARIFIED TO A DEPTH OF 9 INCHES AND RE-COMPACTED TO DENSITIES SPECIFIED BELOW. ANY UNSUITABLE SOILS FOUND AT THIS TIME SHALL BE DRIED AND RECOMPACTED OR REMOVED IF REQUIRED COMPACTION CANNOT BE OBTAINED.
4. ALL FILL MATERIAL SHALL CONSIST OF APPROVED, SUITABLE SOILS PLACED IN LOOSE LIFTS OF 9 INCHES OR LESS AND COMPACTED TO AT LEAST 95% OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D-698). THE COMPACTION WILL BE FIELD TESTED BY A SOILS ENGINEERING CONSULTANT REPRESENTING THE OWNER.
5. SOIL AMENDED TO SOIL BELOW SURFACE. THE AMENDED SOIL SHALL BE: EXISTING TOPSOIL 20%, COMPOST MULCH 35%, CLEAN SAND 45%. MIX THOROUGHLY AND CLEAN AND CLEAN UN-COMPACTED. LEAVE 3"-6" HIGH TO ALLOW FOR NATURAL SETTLING.
6. PROJECT WILL BE COVERED BY A GENERAL PERMIT REGULATING RUNOFF FROM CONSTRUCTION SITES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE REQUIRED MONITORING, INSPECTION AND MAINTENANCE AS REQUIRED BY THE PERMIT.
7. ALL DISTURBED EMBANKMENTS GREATER THAN 3:1 SLOPES SHALL BE SEEDED ACCORDING TO A RECOMMENDED SEEDING MIX BY THE LANDSCAPER AND COVERED WITH EROSION CONTROL BLANKETS OR AS DIRECTED BY PLAN DOCUMENTS.
8. CONTRACTOR SHALL ADHERE TO THE CITY OF ***MOLINE*** EROSION AND SEDIMENT CONTROL REGULATIONS AND THE STATE OF ***ILLINOIS*** CONSTRUCTION SITE EROSION CONTROL MANUAL.

EROSION CONTROL NOTES

1. EROSION CONTROL SHALL BE INSTALLED PRIOR TO ANY GRADING OPERATIONS WHERE POSSIBLE.
2. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED TO PREVENT OFF-SITE TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS. ANY SEDIMENT DEPOSITED ON PUBLIC ROADS SHALL BE REMOVED BY SHOVELING OR STREET CLEANING BEFORE THE END OF EACH WORKING DAY.
3. SHOWN LOCATION OF SILTATION CONTROL IS APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION.
4. WATER PUMPED DURING CONSTRUCTION OPERATIONS SHALL BE FILTERED.
5. ONCE CONSTRUCTION HAS BEEN COMPLETED, OR TEMPORARILY SUSPENDED FOR LONGER THAN 21 DAYS (SUCH AS WINTER SHUTDOWN), THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED WITHIN 21 DAYS OF THE LAST DISTURBANCE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE CONTRACTOR ESTABLISHES A GOOD STAND OF GRASS OF UNIFORM COLOR AND DENSITY TO THE SATISFACTION OF THE ENGINEER.
6. CONTRACTOR SHALL ADHERE TO THE ***ILLINOIS*** CONSTRUCTION SITE EROSION CONTROL MANUAL.
7. ALL EROSION CONTROL MEASURES MUST BE INSTALLED (WHERE POSSIBLE) PRIOR TO THE COMMENCEMENT OF ANY EARTH DISTURBING OPERATIONS. THE REMAINING EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS REASONABLY POSSIBLE AFTER GRADING OPERATIONS BEGIN. WHERE THE PRESENCE OF SILT FENCE WILL INTERFERE WITH ACTIVITIES, DIVERSION DITCHES AND SMALL TEMPORARY SEDIMENT TRAPS SHALL BE UTILIZED UNTIL SILT FENCE OR OTHER MEASURES MAY BE INSTALLED AND VEGETATION ESTABLISHED.
8. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH PRECIPITATION EVENT AND REPLACED OR REPAIRED AS NECESSARY.
9. SILT FENCE AND SEDIMENT BASIN SHALL BE CLEANED OR REPLACED WHEN SILT BUILDS UP TO WITHIN ONE FOOT OF THE TOP OF THE SILT FENCE.
10. PROJECT WILL BE COVERED BY A GENERAL PERMIT REGULATING RUNOFF FROM CONSTRUCTION SITES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE REQUIRED MONITORING, INSPECTION AND MAINTENANCE AS REQUIRED BY THE PERMIT.
11. CONCRETE WASHOUT DEBRIS SHOULD BE HAULED OFF-SITE. WASHOUT SHOULD BE FILLED IN AND SEEDED.
12. ALL AREAS DISTURBED BEYOND LIMITS SHOWN SHOULD BE SEEDED WITH ADJACENT SEED MIXTURE OR IN-KIND.

UTILITY NOTES

1. THE PRIVATE FIREMAIN SHOULD BE PRESSURE TESTED IN ACCORDANCE WITH NFPA 24.
2. ALL GATE VALVES SHALL BE INSTALLED WITH VALVE BOX.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES AND PAVED STREETS, INCLUDING ANY NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY CONFLICTS WITH THE DRAWINGS OCCUR. ANY DAMAGE TO EXISTING UTILITIES AND/OR PAVED STREETS CAUSED BY TRENCHING AND GRADING OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE.
4. ALL EXISTING UNDERGROUND UTILITIES SHOWN WERE LOCATED PARTIALLY IN THE FIELD AND PARTIALLY FROM REVIEW OF EXISTING PUBLIC RECORDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT EACH UTILITY COMPANY FOR THE FIELD LOCATION OF THEIR EXISTING LINES IN OR NEARBY THE CONSTRUCTION AREA PRIOR TO BEGINNING ANY CONSTRUCTION.
5. THE CONTRACTOR SHALL EXERCISE PROPER CAUTION TO PROTECT THE EXISTING IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE.

GENERAL NOTES-CIVIL ITEMS

1. ALL WORK SHALL BE PERFORMED IN GENERAL CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE ***ILLINOIS*** STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
2. CLEARING AND DEMOLITION. MARK AND PROTECT ITEMS TO BE SAVED, REUSED OR ATTACHED TO. CUT PRIOR TO REMOVAL AND DISPOSE OF REMOVAL MATERIALS IN AN APPROVED LANDFILL, RECYCLE MATERIAL WHERE POSSIBLE. REMOVE TREES COMPLETELY, INCLUDING STUMPS, REFILLING AND COMPACTING EXCAVATIONS.
3. EARTHWORK. PERFORM ROUGH GRADING TO WITHIN THREE INCHES OF FINAL GRADE WITHOUT CREATING PONDING. STORE EXCESS SOILS TO BE REUSED ON SITE, HAUL EXCESS SOILS OFF SITE. PROTECT SPOIL AREAS FROM EROSION AND COMPLY WITH EPA AND LOCAL REQUIREMENTS FOR EROSION CONTROL. STRUCTURAL FILLS SUPPORTING STRUCTURES INCLUDING FLATWORK SHALL BE COMPACTED TO 95% OF THE MATERIAL MAXIMUM DRY DENSITY AS DETERMINED BY ASTM METHOD D-698 (STANDARD DENSITY). PERFORM FINAL GRADING TO WITHIN 1" OF PLAN ELEVATIONS IN LANDSCAPE AREAS, AND WITHIN ¼" IN PAVEMENT AND WALK AREAS. LANDSCAPE AREAS SHALL RECEIVE 4" OF SOIL CAPABLE OF SUPPORTING GROWTH, BE SEEDED AT A MINIMUM OF 5LBS/ACRE OF 50% KY BLUEGRASS, 25% PERENNIAL RYEGRASS AND 25% CREEPING RED FESCUE. FERTILIZER IS REQUIRED AT 10LBS./1000SF AT A 1-1-1 RATIO OF NUTRIENT, P-N-P. STRAW OR OTHER ACCEPTABLE MULCH IS REQUIRED.
4. PORTLAND CEMENT CONCRETE. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES. COMPRESSING STRENGTH SHALL BE 3500PSI IN 14 DAYS, AIR ENTRAINMENT SHALL BE BETWEEN 5 % AND 8% AND SLUMP SHALL BE 4 INCHES OR LESS ALL AS MEASURED BY THE APPROPRIATE ASTM METHODS. REINFORCING STEEL SHALL BE ASTM CERTIFIED 60KSI TENSILE STRENGTH. REINFORCING STEEL SHALL BE #4 SIZE UNLESS OTHERWISE SPECIFIED. HANDRAILS, BOLLARDS, AND OTHER APPURTENANCES SHALL BE INSTALLED PER PLAN AND MEET JURISDICTIONAL REQUIREMENTS.
5. UTILITY PIPING. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION METHODS INCLUDING BACKFILL MATERIAL AND MATERIAL DEPTHS. PIPE MATERIAL SHALL BE AS SPECIFIED ON THE PLANS. ALL MATERIAL SHALL MEET THE REQUIREMENTS OF THE LOCAL JURISDICTION FOR STRENGTH, MATERIAL TYPE AND CONFORMITY WITH THE EXISTING SYSTEM. SEWER LINES SHALL BE CONSTRUCTED STRAIGHT TO THE SPECIFIED LINE AND GRADES. MANHOLES, STORM INLETS, VALVE BOXES AND APPURTENANCES SHALL BE ADJUSTED TO GRADE OR PER PLAN PRIOR TO SEEDING/LANDSCAPING ACTIVITIES.
6. CLEANUP AND FINAL INSPECTION. WORK BROKEN OR DAMAGED BY CONTRACTOR ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. ALL WASTE MATERIAL, CONCRETE WASHOUT, LANDSCAPE WASTE AND BUILDING MATERIAL SHALL BE REMOVED. SOIL SHALL BE REMOVED FROM PAVED AREAS AND THE PROJECT SHALL BE LEFT IN A CLEAN AND WORKMANLIKE MANNER.

Know what's **below.**
Call before you dig.

HORIZONTAL CONTROL - NAD 83

POINT #	NORTHING	EASTING	DESCRIPTION
1	1749469.3160	2197617.7550	FORESIGHT #5REBAR
2	1749925.9740	2197583.8210	FORESIGHT #5REBAR
100	1749734.7640	2197760.9950	FORESIGHT #5REBAR
101	1749948.5010	2197705.4780	FORESIGHT #5REBAR
102	1749505.2220	2197392.6370	FORESIGHT #5REBAR

VERTICAL DATUM - NAVD 88 DATUM

	DESCRIPTION	ELEVATION
TBM-1	CUT "X" IN CONCRETE LIGHT POLE BASE IN MEDIAN AT 41ST AVE DRIVE ENTRANCE TO SHOPPING CENTER	577.31
TBM-2	CUT "X" IN CONC LIGHT POLE BASE ON NORTH SIDE OF LOT 2 ACCESS DRIVE, AT SW CORNER OF BLDG	576.62

SITE CONTROL
SCALE: 1" = 60'

LEGEND

PROPOSED | EXISTING

STORM MANHOLE
STORM INLET
STORM INLET
STORM DOUBLE INLET
FLARED END SECTION
DOWNSPOUT
SANITARY MANHOLE
SANITARY/STORM CLEANOUT
UNKNOWN MANHOLE
WATER VALVE
HYDRANT
WELL
SPRINKLER BOX
WATER METER
WATER SERVICE
POWER POLE
POWER POLE W/ LIGHT
POWER POLE W/ METER
GUY WIRE
GUY POLE
ELECTRIC MANHOLE
ELECTRIC PEDESTAL/TRANSFORMER
ELECTRIC METER
TELEPHONE POLE
TELEPHONE MANHOLE
TELEPHONE PEDESTAL
UTILITY MANHOLE
HANDHOLE
GAS VALVE
LIGHT POLE
VAPOR LIGHT
LIGHT JUNCTION BOX
SIGN
FLAGPOLE
POST/BOLLARD
12" CONIFER TREE
12" DECIDUOUS TREE
6" BUSH/SHRUB
TREE STUMP
CONTROL POINT
BENCHMARK
SOIL BORING HOLE
R.O.W. MARKER, FOUND
RAILROAD SPIKE, FOUND
PIPE, FOUND
CONCRETE MONUMENT, FOUND
100.00' MEASURED DIMENSION
(100.00') RECORDED DIMENSION
×100.00 SPOT ELEVATION
TC=100.00 FL=100.00 GRADE LABEL
1.0% DRAINAGE SLOPE
LINE CONTINUATION
SURVEY BOUNDARY
PROPERTY LINE
CENTERLINE
HISTORICAL LINE - AS NOTED
EASEMENT LINE
SECTION LINE
R.O.W. LINE
SETBACK LINE
FORCE MAIN
SANITARY SEWER
STORM SEWER
PIPE UNDERDRAIN
W W WATER LINE
OE OE OVERHEAD ELECTRIC
E E UNDERGROUND ELECTRIC
G G GAS LINE
T T TELEPHONE LINE
UT UT UTILITY LINE
EDGE OF WATER LINE/DITCH FLOWLINE
CHAIN LINK FENCE
SILT FENCE
100 CONTOUR
GUARD RAIL
TREE LINE
FLOOD PLAIN
FLOODWAY
CONSTRUCTION LIMITS

IL DESIGN FIRM NO. 184-000843

REVISIONS		
No.	DESCRIPTION	DATE

Missman, Inc.
Professional Engineers & Land Surveyors
Rock Island, IL (309) 788-7644 • Bettendorf, IA (563) 344-0260 • Rockford, IL (815) 965-6400 • DeKalb, IL (815) 748-5543
www.missman.com

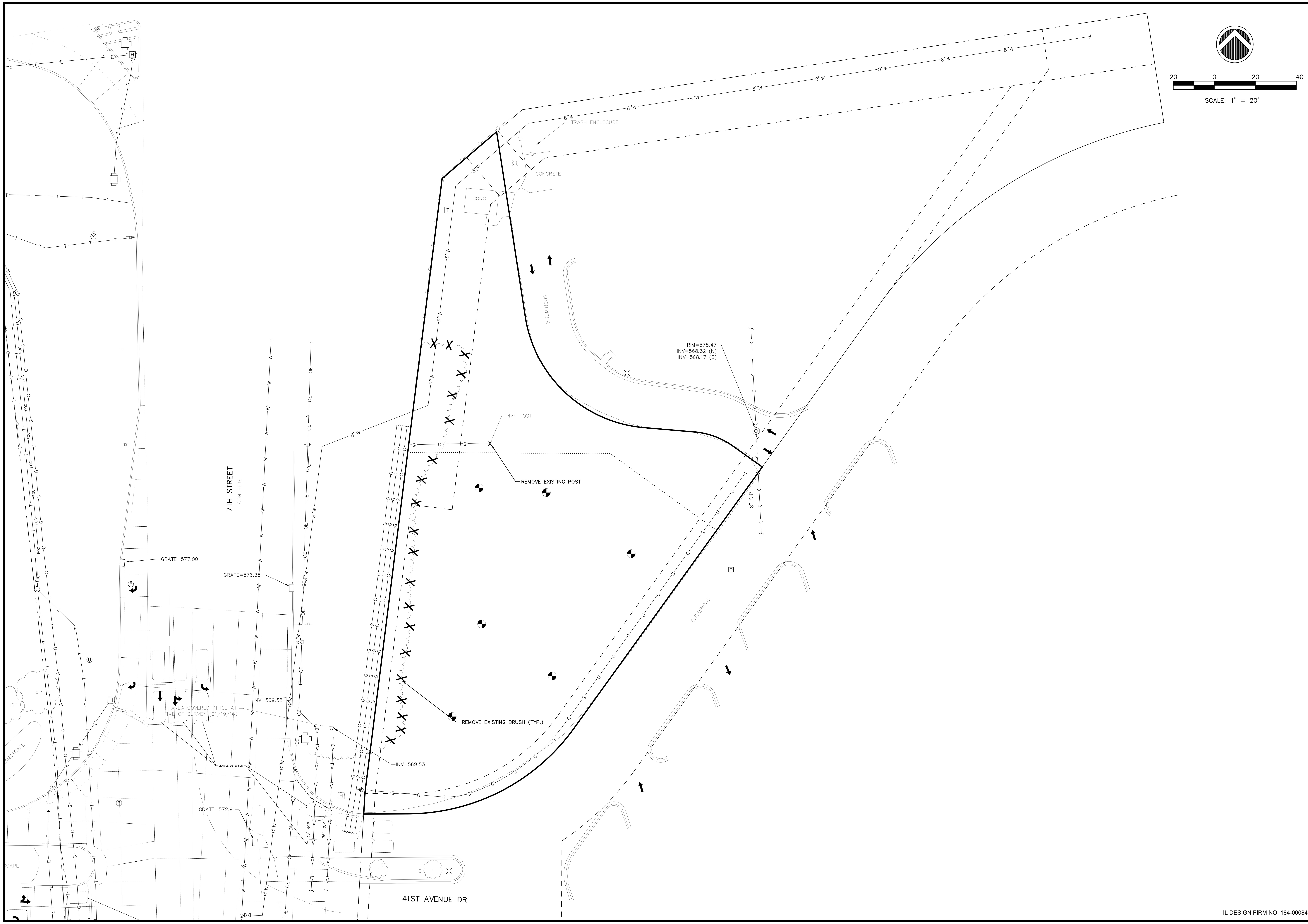
BTS - 7TH STREET & JOHN DEERE ROAD
COMMERCIAL LOT
MOLINE, ILLINOIS

SITE CONTROL LEGEND AND NOTES

Missman Project No: C16L002
File Name: C16L002-NOTES AND DETAILS.dwg

Field Book No: ####
Drawn By: ABL
Checked By: JLH
Date: 05/03/2016

C-1



IL DESIGN FIRM NO. 184-000843

REVISIONS		
No.	DESCRIPTION	DATE

Missman, Inc.
Professional Engineers & Land Surveyors
Rock Island, IL (309) 788-7644 · Bettendorf, IA (563) 344-0260 · Rockford, IL (815) 965-6400 · DeKalb, IL (815) 748-8543
www.missman.com

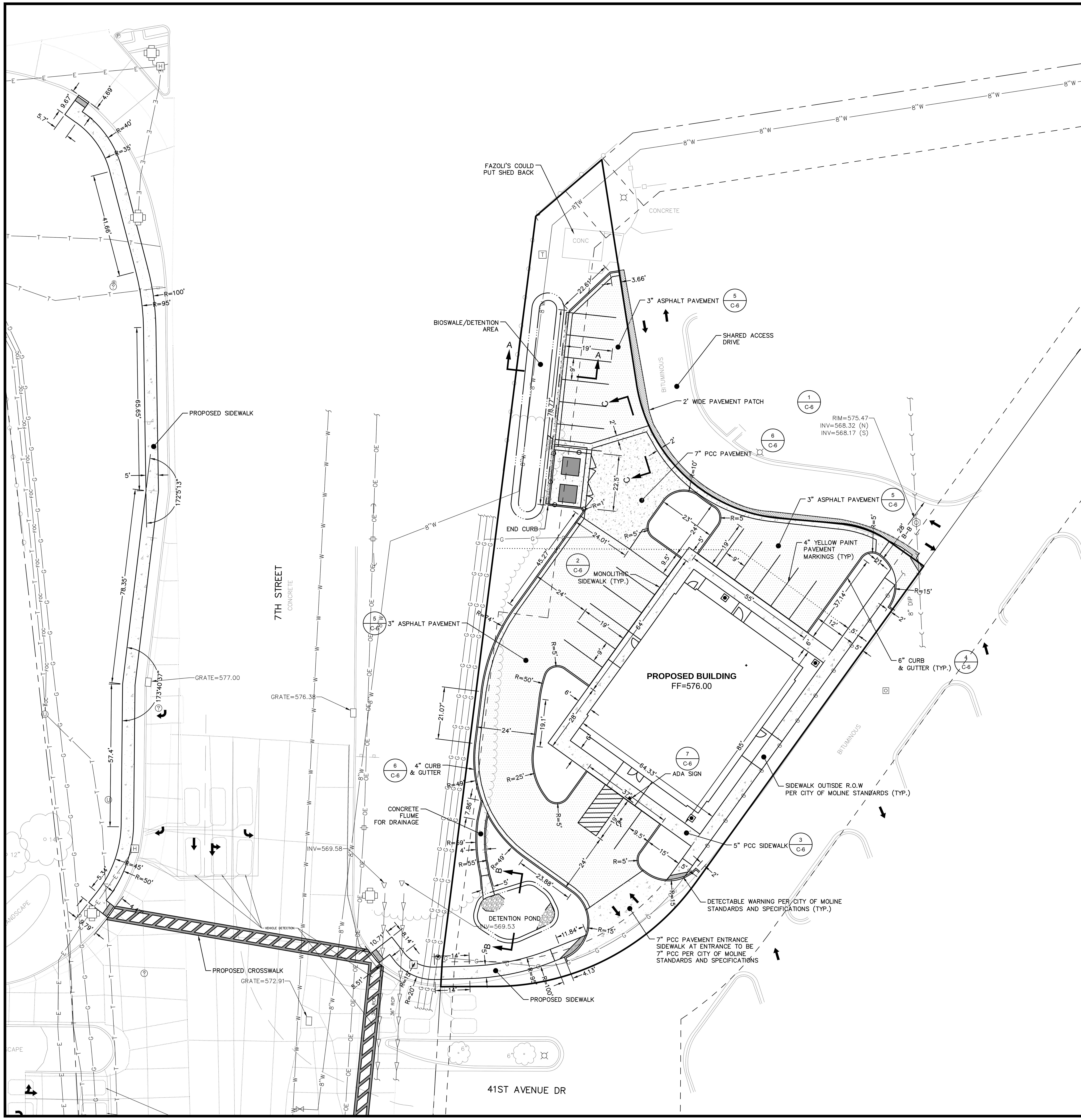
BTS - 7TH STREET & JOHN DEERE ROAD
COMMERCIAL LOT
MOLINE, ILLINOIS

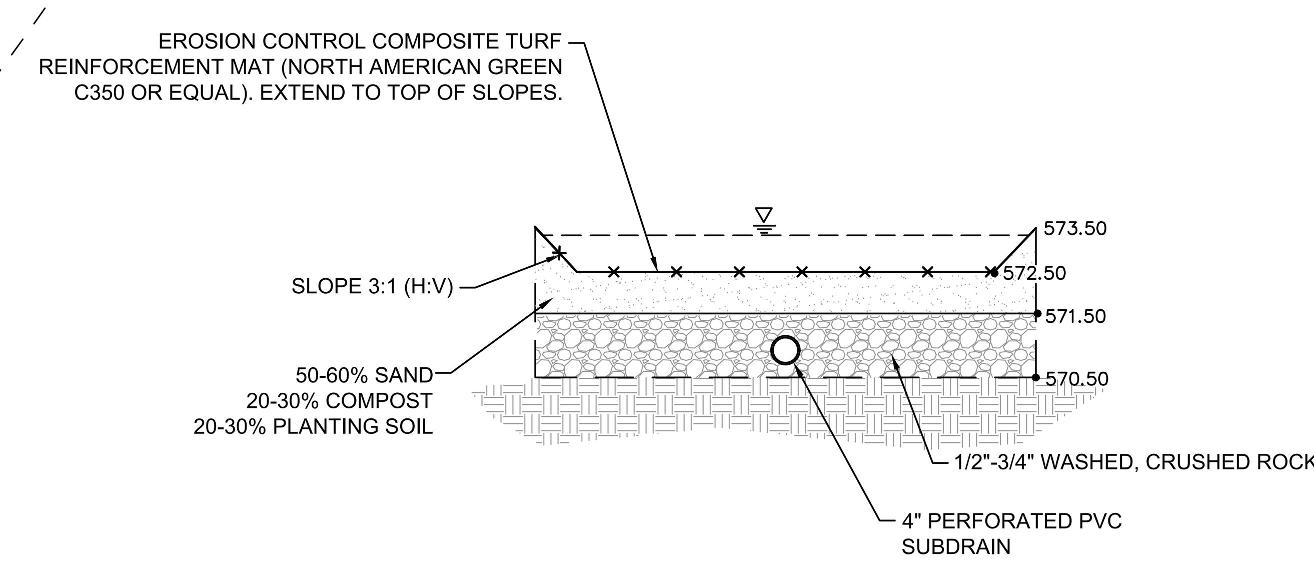
EXISTING CONDITIONS AND
DEMOLITION PLAN

Missman Project No: C16L002
File Name: C16L002-SITE PLAN.dwg

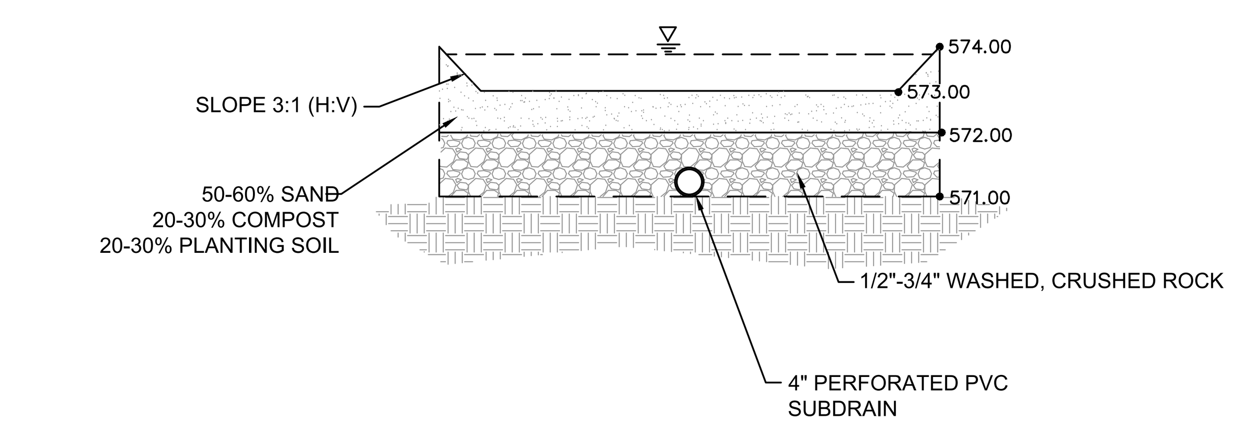
Field Book No: ####
Drawn By: ABL
Checked By: JLH
Date: 05/03/2016

C-2

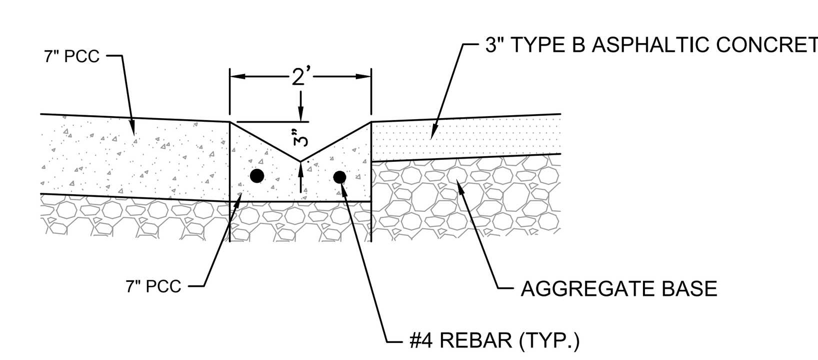




DETENTION POND SECTION A-A
NOT TO SCALE



DETENTION POND SECTION B-B
NOT TO SCALE



DRAINAGE SECTION C-C
NOT TO SCALE

IL DESIGN FIRM NO. 184-000843

REVISIONS		
No.	DESCRIPTION	DATE

Missman, Inc.
Professional Engineers & Land Surveyors
Rock Island, IL (309) 788-7644 • Bettendorf, IA (563) 344-0260 • Rockford, IL (815) 965-6400 • DeKalb, IL (815) 748-5543
www.missman.com

BTS - 7TH STREET & JOHN DEERE ROAD COMMERCIAL LOT
MOLINE, ILLINOIS

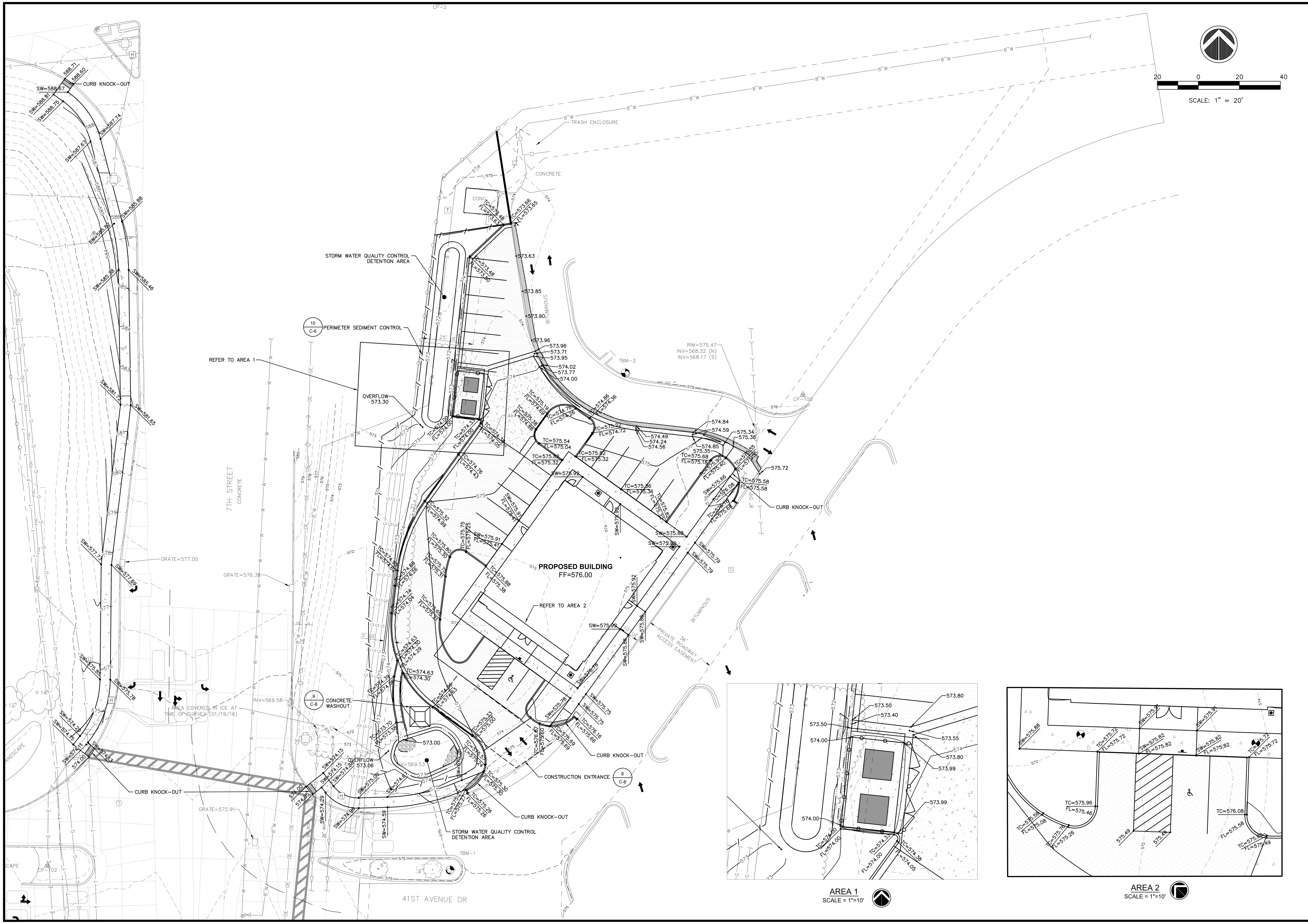
SITE LAYOUT AND PAVING PLAN

Missman Project No: C16L002
File Name: C16L002-SITE PLAN.dwg

Field Book No: ####
Drawn By: ABL
Checked By: JLH
Date: 05/03/2016

C-3

Sheet 4 of 7



REVISIONS		
No.	DESCRIPTION	DATE

Missman, Inc.
Professional Engineers & Land Surveyors

Rock Island, IL (309) 788-7644 • Bettendorf, IA (563) 344-0260 • Rockford, IL (815) 965-6400 • DeKalb, IL (815) 748-8543
www.missman.com

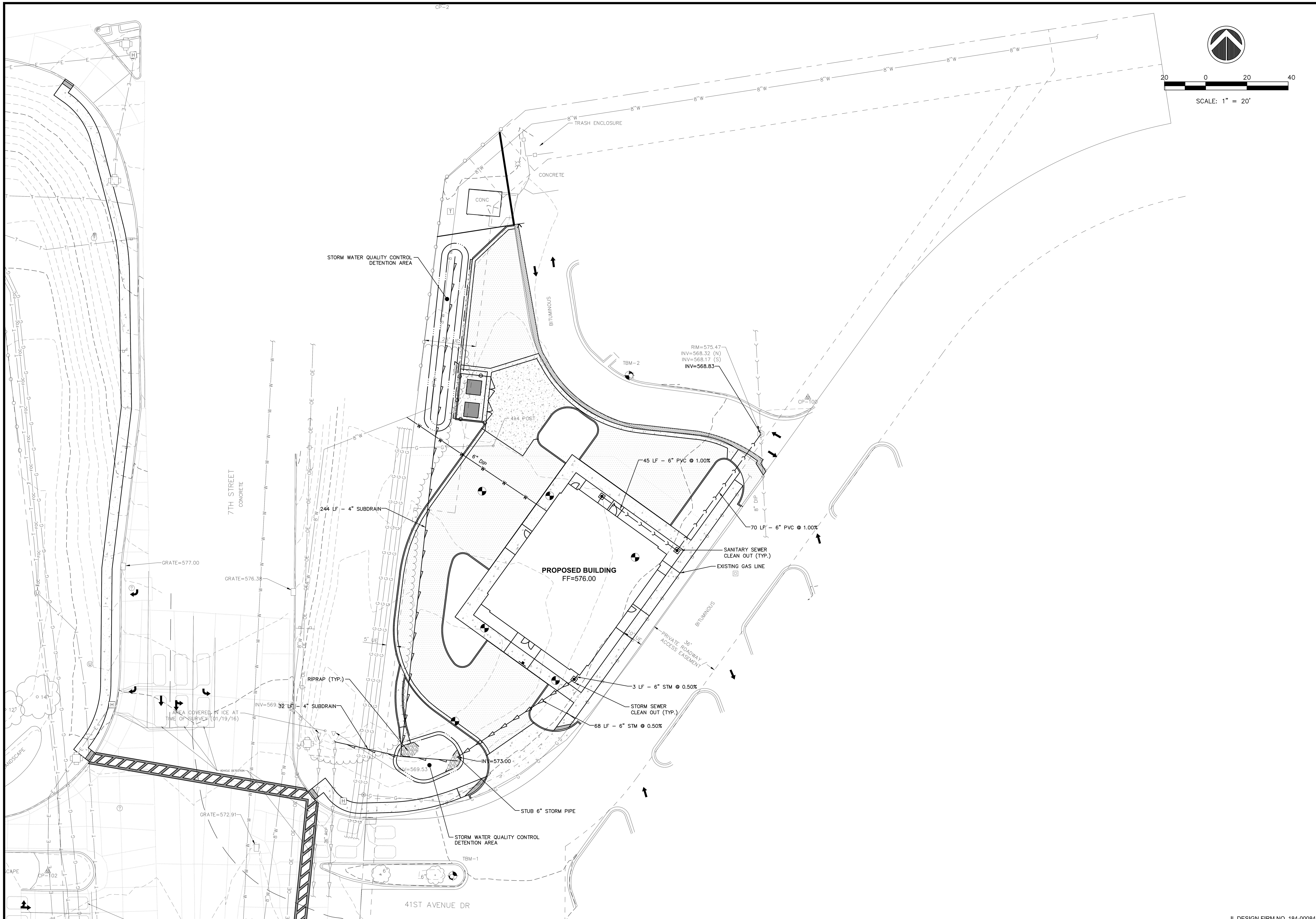
BTS - 7TH STREET & JOHN DEERE ROAD COMMERCIAL LOT
MOLINE, ILLINOIS

GRADING AND EROSION CONTROL PLAN

Missman Project No: C16L002
File Name: C16L002-GRADING AND UTILITY.dwg

Field Book No:####
Drawn By: ABL
Checked By: JLH
Date: 05/03/2016

C-4



REVISIONS		
No.	DESCRIPTION	DATE

Missman, Inc.
Professional Engineers & Land Surveyors

Rock Island, IL (309) 788-7644 • Bettendorf, IA (563) 344-0260 • Rockford, IL (815) 965-6400 • DeKalb, IL (815) 748-5543
www.missman.com

BTS - 7TH STREET & JOHN DEERE ROAD COMMERCIAL LOT
MOLINE, ILLINOIS

UTILITY PLAN

Missman Project No: C16L002

File Name: C16L002-GRADING AND UTILITY.dwg

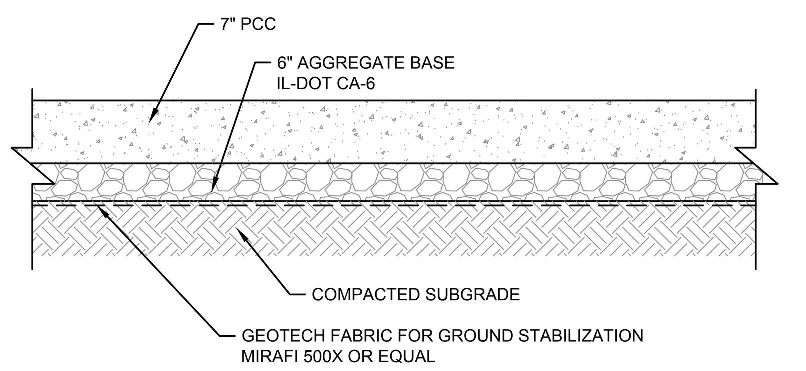
Field Book No: ####

Drawn By: ABL

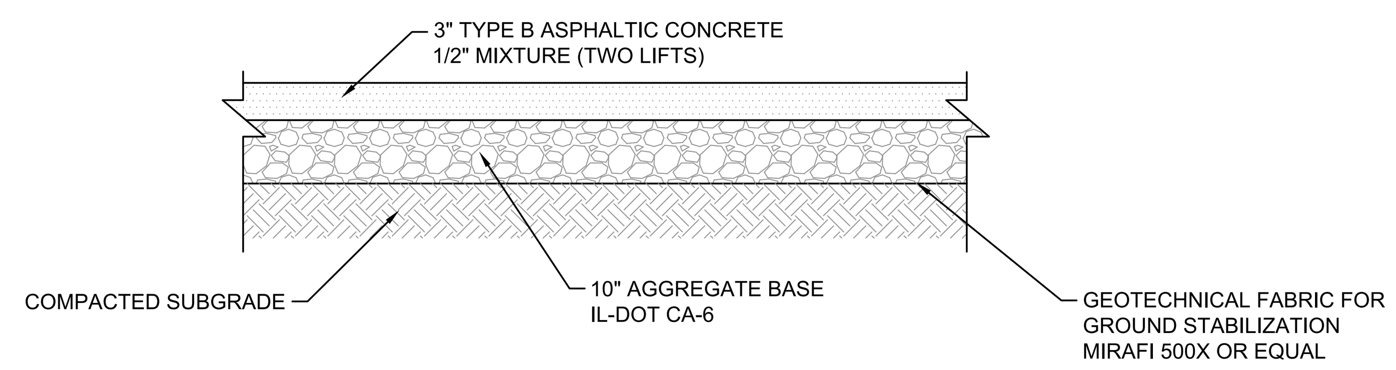
Checked By: JLH

Date: 05/03/2016

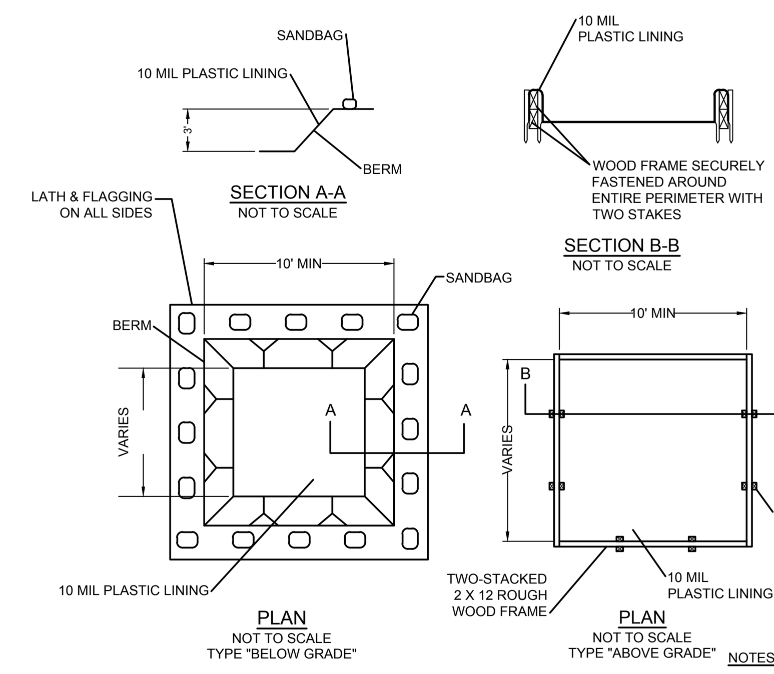
C-5



1 C-6 PCC PAVEMENT DETAIL
NOT TO SCALE



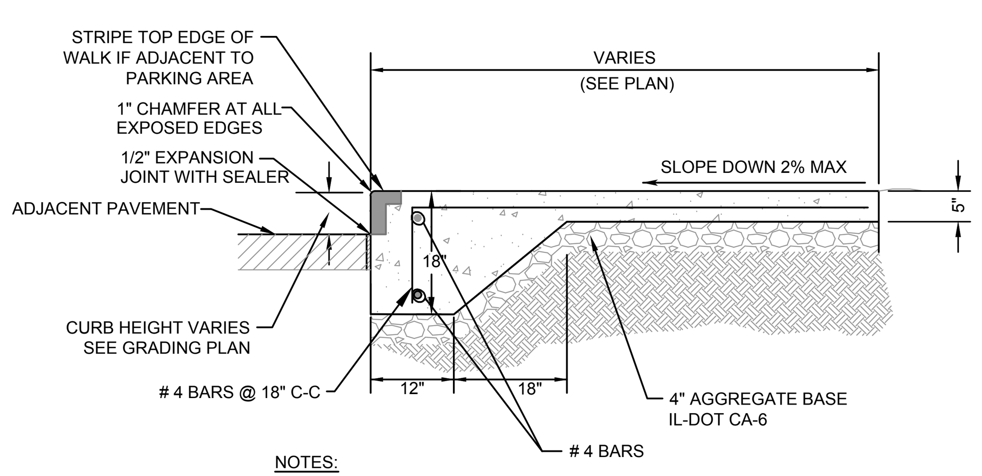
5 C-6 ASPHALT PAVEMENT DETAIL
NOT TO SCALE



NOTES

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY

9 C-6 CONCRETE WASH MANAGEMENT
NOT TO SCALE



NOTES:

1. BROOM FINISH PER ARCHITECT.
2. TURN DOWN EDGE AT PAVEMENT AREA ONLY.
3. PROVIDE 3/8"WIDE BY 1" DEEP TOOLED CONTRACTION JOINTS @ 5' O.C. MAX.

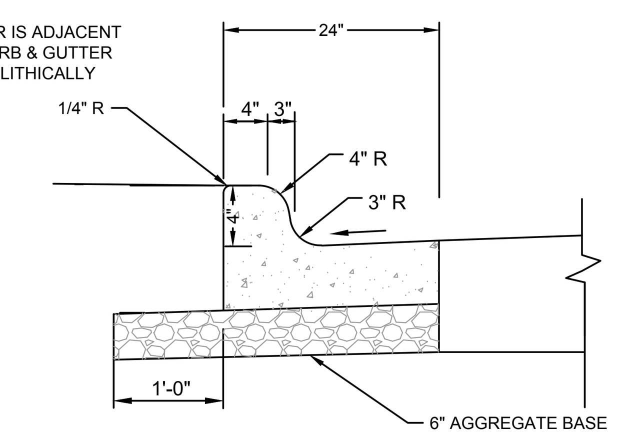
2 C-6 MONOLITHIC PCC SIDEWALK
NOT TO SCALE

NOTES:

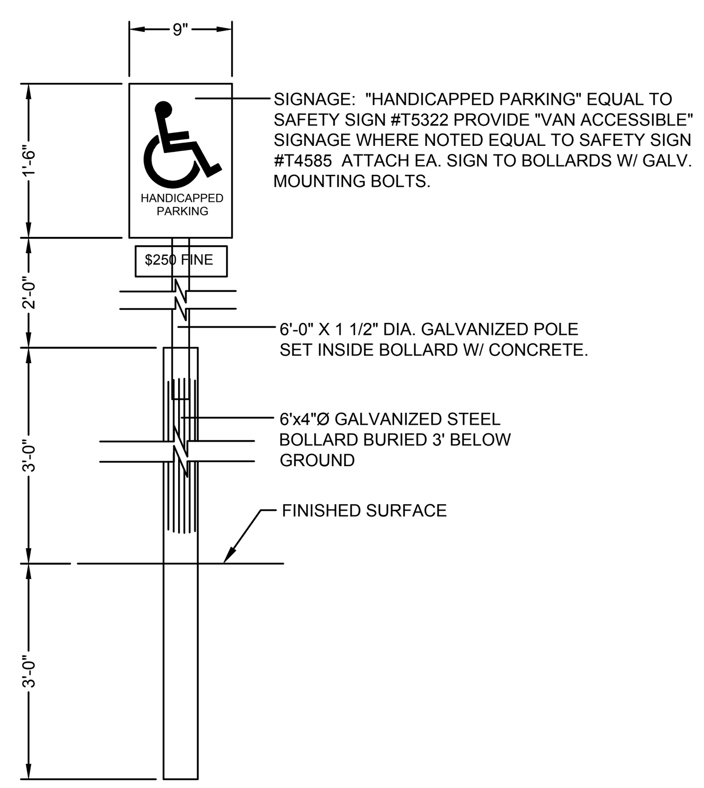
1. PROVIDE 3/8" WIDE x 1" DEEP TOOLED CONTRACTION JOINTS (TJ) AT 5' O.C. MAX.
2. TURN DOWN EDGE AT PAVEMENT AREA ONLY.
3. INSTALL 1/2" THICK EXPANSION JOINT AT 50' MAXIMUM SPACING AND AT DRIVEWAYS, BACK OF CURB, PROPERTY LINES, AND AT OTHER SIDEWALKS. EXPANSION JOINTS AT BACK OF CURB SHALL BE SEALED WITH APPROVED POURED JOINT SEALER.

NOTE:

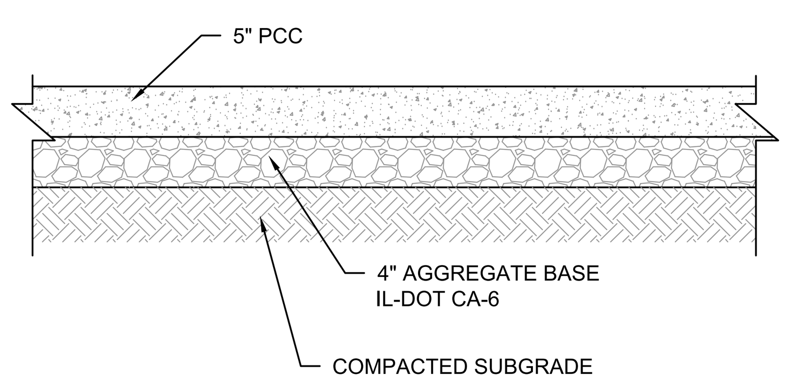
1. WHERE CURB & GUTTER IS ADJACENT TO PCC PAVEMENT, CURB & GUTTER MAY BE POURED MONOLITHICALLY WITH PAVEMENT.



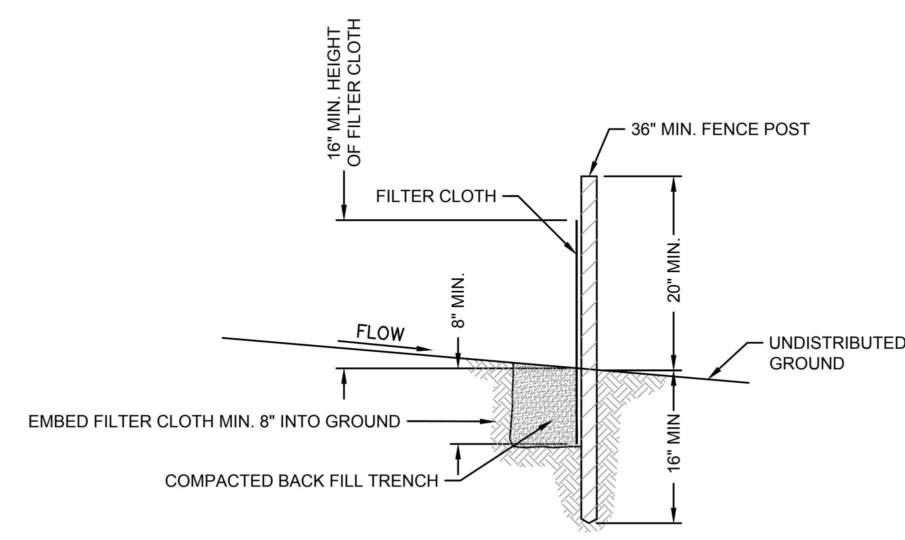
6 C-6 4" CURB AND GUTTER
NOT TO SCALE



7 C-6 ADA PARKING SIGN DETAIL
NOT TO SCALE



3 C-6 SITE SIDEWALK
NOT TO SCALE



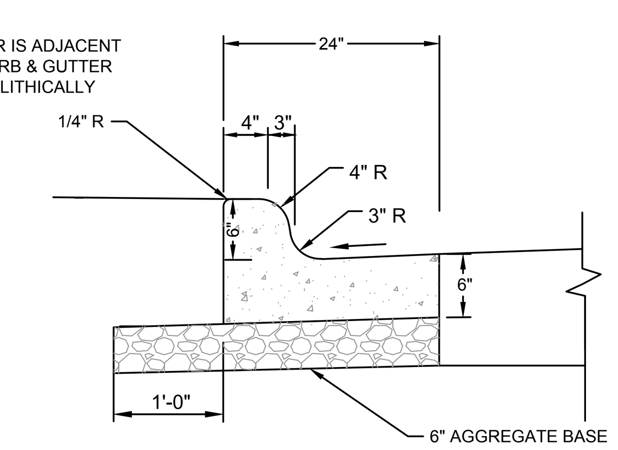
10 C-6 PERIMETER SEDIMENT CONTROL DETAIL
(NOT TO SCALE)

PERIMETER SEDIMENT CONTROL NOTES:

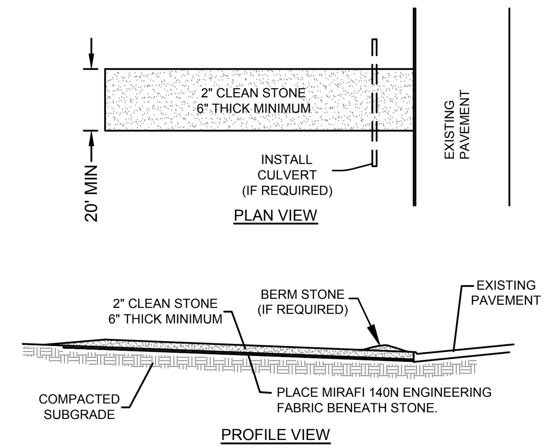
1. FENCE POST TO BE STEEL "T" OR "U" TYPE OR 2" HARDWOOD. FENCE POSTS ARE TO BE DRIVEN INTO GROUND 16" MIN. AT 10' MAXIMUM SPACING.
2. FILTER CLOTH TO BE FILTER X, MIRAFI 100X, STABILINKA T140N. CLOTH TO BE FASTENED SECURELY TO FENCE POSTS. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

NOTE:

1. WHERE CURB & GUTTER IS ADJACENT TO PCC PAVEMENT, CURB & GUTTER MAY BE POURED MONOLITHICALLY WITH PAVEMENT.



4 C-6 6" CURB AND GUTTER
NOT TO SCALE



8 C-6 CONSTRUCTION ENTRANCE
NOT TO SCALE

REVISIONS		
No.	DESCRIPTION	DATE

Missman, Inc.
Professional Engineers & Land Surveyors
Rock Island, IL (309) 788-7644 • Bettendorf, IA (563) 344-0260 • Rockford, IL (815) 965-6400 • DeKalb, IL (815) 748-5543
www.missman.com

BTS - 7TH STREET & JOHN DEERE ROAD
COMMERCIAL LOT
MOLINE, ILLINOIS

DETAILS

Missman Project No: C16L002
File Name: C16L002-NOTES AND DETAILS.dwg

Field Book No: ####
Drawn By: ABL
Checked By: JLH
Date: 05/03/2016

C-6


Street View
Moline, Illinois
View on Google Maps
41ST AV DR
7th St
7th St
REQUIRED LOCATION
Google
© 2016 Google
Terms of Use
Report a problem


Street View
John Deere Rd
Moline, Illinois
View on Google Maps
John Deere Rd
John Deere Rd
REQUIRED LOCATION
Google
© 2016 Google
Terms of Use
Report a problem


Street View
Moline, Illinois
View on Google Maps
7th St
7th St
PROPOSED LOCATION
Google
© 2016 Google
Terms of Use
Report a problem


Street View
John Deere Rd
Moline, Illinois
View on Google Maps
PROPOSED LOCATION
John Deere Rd
John Deere Rd
Google
© 2016 Google
Terms of Use
Report a problem

AGREEMENT FOR SALE OF REAL ESTATE

CITY OF MOLINE, ILLINOIS, A MUNICIPAL CORPORATION **SELLER**		STEVEN DUFUR & CHERYL DUFUR **PURCHASER**	
Address:	619 16th Street Moline, IL 61265	Address:	5101 25th Avenue Court Apt. 3 Moline, IL 61265
Telephone:	(309) 524-2012	Telephone:	(309) 714-3236

THIS AGREEMENT IS DATED _______________________.

The Purchaser agrees to purchase from the Seller and the Seller agrees to sell to Purchaser the real estate located at 422 38th Street, Moline, Illinois (Parcel Number 08-2143), consisting of 7,250 square feet, more or less, legally described as:

> LOT NUMBER SIXTEEN (16) IN BLOCK NUMBER FOUR (4) IN THAT PART OF THE CITY OF MOLINE KNOWN AS AND CALLED COLUMBIA PARK ADDITION, SITUATED IN THE COUNTY OF ROCK ISLAND, IN THE STATE OF ILLINOIS;

hereinafter referred to as the "Property," for the total sum of FIFTEEN THOUSAND, FIVE HUNDRED and No/100 DOLLARS ($15,500.00), plus a right of reverter requiring Purchaser to complete interior and exterior renovations of 422 38th Street as set forth in the sections related to special restrictions and covenants herein, and payable in cash or other immediately available funds, at Closing, as defined herein. **The deadline to complete all renovations is October 31, 2016.** Seller may in its sole discretion agree to extend the date of completion. Any extension shall be by a written amendment to this Agreement signed by both parties. In no event shall the completion date be extended beyond January 31, 2017, or the Property will **automatically revert to the City**. Purchaser understands that Seller's City Council must approve this Agreement before it becomes effective. Therefore, the Purchaser agrees that Purchaser's offer to buy hereunder shall be irrevocable until June 21, 2016, to allow Seller's City Council to consider and approve this Agreement at its June 14, 2016 City Council meeting all as described herein below.

SPECIAL RESTRICTIONS AND COVENANTS

Each and every item listed in this Section shall be construed as a material condition of this Agreement for Sale of Real Estate and shall be controlling over any portion in conflict therewith and any provision of any deed created pursuant hereto. If Purchaser or its successors in interest, if any, are at any time in breach or other violation of any provision of this Section and so remain for a period of fourteen (14) days after notice from Seller of the breach or other violation, then the Seller may reclaim and repossess the real estate interests transferred pursuant hereto; the Seller shall retain any and all amount paid to it for purposes of the transfer and/or sale contemplated herein as consideration for this Agreement and as payment for Seller's costs in preparing and conducting the sale herein contemplated. The special restrictions and covenants shall be as follows:

1. The purchase price for the Property is Fifteen Thousand, Five Hundred and No/100 Dollars ($15,500.00). Of the 2016 taxes payable in 2017, the Seller shall pay its pro-rated share of the tax for the time period from January 1, 2016, to the date of Closing. The remaining amount due and owing shall be paid by Purchaser. Future taxes not otherwise provided for herein shall be paid by Purchaser.

2. Purchaser acknowledges and agrees to the following construction schedule:

   Remove all debris from property inside and out: house, garage, shed. The yard would then be brought into good condition: mowing, edging, raking, trimming of trees and shrubs as needed, and planting some flowers.

   Paint house and outbuildings completely. This would include preparation and repair of any minor things needed such as lattice repair and broken window in attic. Paint and rehab the existing windows and replace them at a later date as can afford to.

   Install new gutters and downs.

   Rebuild the dilapidated back porch.

   Get utilities turned on: electrical, gas and water, along with any repairs to these systems needed to pass City inspections necessary for turn on of the utilities.

   Replace the furnace and duct work with a more efficient unit. Schedule Mid-American Energy home inspection and consider their rebate program for insulation. Replace faulty sidewalks in back.

   Kitchen and bath updates as can afford it.

   <u>Timeline</u>
   120 days from date of possession.

   The deadline to complete all renovations is October 31, 2016. Seller may in its sole discretion agree to extend the date of completion. Any extension shall be by a written amendment to this Agreement signed by both parties. In no event shall the completion date be extended beyond January 31, 2017.

   Purchaser further acknowledges and agrees that Purchaser's failure to abide by any of the above conditions will result in reverter of the Property to the Seller without further action by or notice from the Seller, and Purchaser will voluntarily relinquish all interests in the Property to the Seller. In the case of reverter, any improvements done to the Property by the Purchaser shall become the property of the Seller and Purchaser has no right to said improvements or reimbursement therefor.

CONVEYANCE OF TITLE AND DOCUMENTS OF SALE

At Closing, Seller shall deliver a Quit Claim Deed to Purchaser or his/her licensed attorney practicing in Rock Island County, in the name of the Purchaser conveying Seller's interests and title, with the right of reverter if the above conditions are not met, together with such other documents that may be required to record the deed and transfer personal property. If the above conditions are met on October 31, 2016, or in no event beyond January 31, 2017, the right of reverter shall cease.

POSSESSION AND CLOSING

(a) The Closing of this transaction shall be held on or before June 30, 2016. ("Closing"), with possession of the Property to be delivered to Purchaser on or at Closing, free and clear of all possessory interests, including, without limitation, squatters, except for the right of reverter, which will cease if above conditions are met by the deadline.

(b) Possession shall be deemed delivered when Seller has vacated the Property.

ASSIGNMENTS AND TRANSFERS PROHIBITED

The parties covenant not to suffer or permit without the written permission or consent of the other being first had and obtained, a sale, assignment, or transfer of any right, title or interest of any sort in and to said Property, or any portion thereof, or any of the improvements, apparatus, fixtures or equipment that may be found in or on said Property prior to Closing.

BUILDINGS, FIXTURES AND PERSONAL PROPERTY

All buildings or fixtures presently installed on the Property shall be left by Seller in or upon said Property as they are as of the date of this Agreement and shall be deemed a part of the real estate and title thereto and shall pass to Purchaser at delivery of the Quit Claim Deed.

CONDITION OF THE PROPERTY

Sale of the property shall be "as is without representation or warranty as to fitness or condition."

CASUALTY CLAUSE

This Agreement shall be subject to the Illinois Uniform Vendor and Purchaser Act as currently in effect. Seller shall keep adequate liability insurance on the above Property until the deed is delivered to the Purchaser. Purchaser shall be responsible for insurance coverage, including liability coverage upon taking title to or possession of the above Property, whichever occurs first. Any monies paid as a result of damage to the Property shall be paid to the Seller to reduce the monies due hereunder, if any; provided, however, that should monies paid as a result of said damage exceed any monies due hereunder, then such excess amount shall be retained by Purchaser.

EXPENSES OF TRANSFER

PURCHASER shall pay:

(a) Recording fee for deed;
(b) Costs of any additional appraisal for the Property obtained by Purchaser;
(c) Revenue stamps and recording of any releases, if any;
(d) Broker commission, if any;

EACH PARTY shall be responsible for its own attorney fees and customary Closing costs.

ENTIRE AGREEMENT

This Agreement, executed by the parties, constitutes the entire agreement between the parties and there are no oral representations, warranties, or covenants other than those set forth herein and this Agreement shall extend to and be binding upon the executors, administrators, and assigns of the parties hereto.

MERGER

The Special Restrictions and Covenants and Right of Reverter contained in this Agreement shall remain in effect and shall not merge with the deed.

LEGAL ASSISTANCE

The Seller and Purchaser are aware that when fully signed, this is a legally binding agreement for the sale and purchase of real estate and that in order to protect their interests in connection with contractual, title and other aspects of this transaction, they have had the right and opportunity to consult legal counsel before this Agreement is signed.

ACCEPTANCE BY SELLER

Until accepted by Seller, this document constitutes an irrevocable offer to buy by Purchaser on the terms stated above. This Agreement must be accepted by Seller on or before June 21, 2016, and Purchaser's offer to buy herein shall be irrevocable to and including June 21, 2016, to allow Seller's City Council opportunity to review and approve this Agreement. Within twenty-four (24) hours of acceptance by Seller's City Council, Closing shall be scheduled. Purchaser acknowledges and agrees that this Agreement is subject to Seller's right and legal responsibility to formally submit this Agreement to the Seller's City Council for review, approval and authorization to execute. If not so approved by the Council by June 14, 2016, this offer and Agreement shall be void. The parties understand that Seller's City Council may not approve this Agreement and that until approved by the City Council, it is not and shall not be binding upon Seller, its officers, employees or agents.

This Agreement has been read and executed in duplicate on the dates beside the parties' authorized agents' signatures.

Executed by SELLER:	Executed by PURCHASER:
CITY OF MOLINE, ILLINOIS, A MUNICIPAL CORPORATION	STEVEN DUFUR
By:________________ Scott Raes, Mayor	By: Steven Dufur Steven Dufur
Date:________________	Date: 5/13/16
ATTEST:	CHERYL DUFUR
By:________________ Tracy A. Koranda, City Clerk	By: Cheryl G. Dufur Cheryl Dufur
Date:________________	Date: 5-13-16

FOR INFORMATION ONLY:
Seller's Attorney:
Amy L. Keys
(309) 524-2012

BID TABULATION - RiverCity*NET* RFP (April 22, 2016)

VENDORS	20-year Base Bid Cost	BASE BID (fiber WAN)		Section 2.2.2 Service (ISP)		BID	COVER	SCH'L 1
	TOTALS:	Non-Recurring	Monthly Recurring	NRC	MRC	LETTER	LETTER	DEVIATIONS
CS Technologies	**$ 2,160,000.00**	$ 1,800,000.00	$ 1,500.00	$ -	$ -	x	x	None
FidelityLink		N.B.	N.B.					
GBASI		N.B.	N.B.					
Geneseo Telephone	**$ 475,000.00**	**$ 295,000.00**	**$ 750.00**	**$ 5,000.00**	**$ 1,495.00**	X	X	None
Geo Tech		N.B.	N.B.					
MediaCom	**$ 3,388,000.00**	$ 28,000.00	$ 14,000.00	$ 1,000.00	$ 1,600.00	x	x	None
Current services	**$ 1,029,170.40**		**$4,288.21**					

Proposal Coverletter

I hereby submit the attached proposal in response to RFP issued by City of Moline on April 20th., 2016 [date]. I hereby certify that my proposal conforms to the RFP except as noted in Schedule 1, and that I represent a Vendor who is authorized to submit a bid for a Form 470 solicitation under the Federal E-Rate program. I hereby certify on behalf of Vendor that, if awarded a Contract and Agreement, Vendor is fully qualified, capable, and willing to perform the services as described in the attachments.

I acknowledge that my response is due in a sealed envelope containing all required parts at or before 1:00 p.m., April 22, 2016 at the Office of Information Technology, City of Moline, 619 16th Street, Moline, Illinois 61265. I understand that it is my responsibility to confirm City's receipt of this proposal.

Preparer's Name: **Geneseo Communications-** Kevin Stuart

Phone: 309-944-8024

E-mail: kevin.stuart@geneseo.com

and,

Authorized Representative Name: Matt Storm

Authorized Representative Signature: Matt Storm

Phone: 309-944-8012

E-mail: matt.storm @geneseo.com

Vendor Corporate Address: 111 E. 1st. Street Geneseo IL. 61265

Date:4/20/2016

SCHEDULE 4 (2nd Revised)
Pricing

(INSTRUCTIONS: REPLACE CORRESPONDING PAGE FROM ORIGINAL RFP DOCUMENT WITH THIS)

2.2.1 Dark WAN Service (between City Facilities)

Label and append hereto breakdown of all Non-recurring and Monthly-recurring costs.

Base Bid Total Non-recurring costs (NRC) $ 295,000.00

Base Bid Monthly-recurring costs* (MRC) $ **$750.00/ month;** $180,000.00 / total term (240 months)

FROM THE BASE BID PRICING, THE FOLLOWING ALTERNATE ADD-ONS / DEDUCTS…

Alternate Add-on NRC for QCIC - Segments/locations "AC-AB-AD" $ 30,000.00

Alternate Add-on MRC for QCIC - Segments AC-AB-AD/location(s) $100.00/ month; $24,000.00/ total term (240 months.

Alternate Deduct(s) from Base Bid NRC for use of City-owned man-holes/hand-holds in bringing the fiber in-to/out-from each of the following locations:

LOCATION	DEDUCT	LOCATION	DEDUCT	LOCATION	DEDUCT
"A" (Fire, 2)	$0	"B" (Police, 2)	$0	"C" (City Hall, 2)	$0
"D" (Centre – via QCIC fiber, 1)	$0	"F" and "G" (WPC North, 1 each)	$0	"AJ" (Public Works, 2)	$0
"AN" and "AO" (Water Plant and Distribution, 1 each)		$0			

Alternate Deduct(s) from Base Bid MRC for use of City-owned man-holes/hand-holds in bringing the fiber in-to/out-from each of the following locations:

LOCATION	DEDUCT	LOCATION	DEDUCT	LOCATION	DEDUCT
"A" (Fire, 2)	$0	"B" (Police, 2)	$0	"C" (City Hall, 2)	$0
"D" (Centre – via QCIC fiber, 1)	$0	"F" and "G" (WPC North, 1 each)	$0	"AJ" (Public Works, 2)	$0
"AN" and "AO" (Water Plant and Distribution, 1 each)		$0			

Alternate Deduct NRC for ELIMINATING Splice Boxes at Segment Points/locations "H, I, P, Q, R, U, V, AG, AI and AM" $0

Alternate Deduct MRC for ELIMINATING Splice Boxes at Segment Points/locations "H, I, P, Q, R, U, V, AG, AI and AM"$0 / month;$0 / total term (240 months)

Alternate Deduct NRC for ELIMINATING Segments N-R and R-S including intervening points
O, P and Q $0

Alternate Deduct MRC for ELIMINATING Segments N-R and R-S including intervening points
O, P and Q $0 / month; $0 / total term (240 months)

Alternate Deduct NRC for USING EXISTING CITY OWNED CONDUIT CROSSING ROCK RIVER TO REACH Segments N-R and R-S including intervening points O, P and Q
$0

Alternate Deduct MRC for USING EXISTING CITY OWNED CONDUIT CROSSING ROCK RIVER TO REACH Segments N-R and R-S including intervening points O, P and Q
$0 / month; $0 / total term (240 months)

2.2.2 Managed Internet Access Service (to ISP Point-of-presence)

Label and append hereto breakdown of all Non-recurring costs.

Base Bid Total Non-recurring costs $ 5,000.00

Base Bid Monthly-recurring costs*
$1,495/ month;
$179,400/ total term (120 months)

2.2.3 Optional Alternative Internet Access Service (to ISP Point-of-presence)

Label and append hereto breakdown of all Non-recurring costs.

Base Bid Total Non-recurring costs $ 5,000.00

Base Bid Monthly-recurring costs*
$1,395.00/month;
$167,400.00/total term (120 months)

*Monthly recurring costs – at a minimum – to include, unless otherwise specified or excepted, all costs to City for IRU, service level commitment and any and all other costs known and unknown to Vendor.

SCHEDULE 2
Indefeasible Right of Use for "Dark" Optical Fiber Wide Area Network Services

Instructions. Label and append proposed IRU, if substantially different than Form provided herein at Exhibit 7. Be certain to note deviations between forms at Schedule 1 above. Note if other than industry standard IRU. Where IRU language is inconsistent with this RFP, then this RFP shall prevail unless a deviation has been noted in Schedule 1 and accepted by the City.

EXHIBIT 7. FORM OF IRU
INDEFEASIBLE RIGHT of USE ("IRU") in DARK FIBERS

THIS LEASE AGREEMENT ("Agreement"), is made and entered into this 30 day of April, 2016, by and between Geneseo Communications (hereinafter referred to as "XYZ" or "Lessor"), and the City of Moline, an Illinois Municipal Corporation (hereinafter referred to as "City" or "Lessee").

WHEREAS, Lessor owns and operates a continuous fiber optic network between the points identified in Exhibit A ("Lessor Route") and

WHEREAS, LESSEE desires to lease certain dark fibers in the Lessor Route from Lessor, and Lessor desires to lease to LESSEE certain dark fibers within the Lessor Route as described more specifically herein, in accordance with the terms and conditions of this Agreement;

NOW THEREFORE, in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties mutually agree as follows:

ARTICLE 1. SCOPE OF AGREEMENT

1.1 Lessor has designed, engineered, constructed or caused to be constructed fiber optic fiber and facilities and has acquired appropriate interests in real property or other rights, all as may be required to operate and maintain the Lessor Route. Lessor has acquired appropriate interests in real property or other rights, all as are or may be required to operate and maintain the Lessor Route and to provide a physical route for the Lessor Route ("Underlying Rights"). Lessor shall perform maintenance of the Lessor Route pursuant to its standard plant maintenance standards and maintain the Leased Fibers in accordance with the specifications in Exhibit B ("Specifications"). Lessor enters into this Agreement in Response to City RFP solicitation dated March 24, 2016 which RFP for "Dark Fiber Optic (10Gb) WAN Network and Managed (1Gb) Fiber Optic ISP Lateral" shall take precedence when language herein is absent or in conflict with the RFP, unless otherwise mutually agreed. The following Exhibits attached hereto are incorporated by reference.

Exhibit A	Route Diagram (As-Built Drawings)/Site List
Exhibit B	Leased Fiber Optic Specifications, Splicing, Testing and Maintenance
Exhibit C	Contact/Escalation List
Exhibit D	Pricing Schedule
Exhibit E	Lessor's Response to City's RFP Dated March 24, 2016
Exhibit F	Assurances

1.2 Subject to the terms and conditions of this Agreement, Lessor hereby grants to Lessee an Indefeasible Right of Use in dark fibers in the Lessor Route as indicated on Exhibit A. Lessee shall have an exclusive right to use the Leased Fibers for the Term, including the right to upgrade capacity and replacement of the Lessee Equipment as provided in this Agreement, but excluding title or ownership in the Leased Fibers. Lessee shall compensate Lessor for the Leased Fibers as provided in this Agreement.

1.3 If mutually agreed, the parties may enter into a separate Equipment Collocation Agreement ("Collo Agreement") to allow Lessee the nonexclusive right to use Facility(ies) described therein for the placement of certain Lessee Equipment for use with the Leased Fibers, all of which is more particularly set forth in a Collo Agreement.

1.4 The Demarcation Point(s) between Lessor and Lessee generally will in a Lessee provided Switch and SFP port for Lessor supplied SFP Module compatible with Lessee equipment, the same located in and MDF/IDF closet contained within each Facility of the WAN.

1.5 Lessee may use the Leased Fibers for any lawful purpose; provided, however, Lessee shall not assign or sublease the Leased Fibers except as provided in Section 18.8. The foregoing limitation shall not be construed to prevent Lessee from using the Leased Fibers to provide dark capacity or other telecommunications, Internet, information services or video services to third parties, subject to the limitations of Section 1.6. So long as Lessee is not in default under the covenants and agreements of this Agreement, Lessor (or any person acting on behalf of Lessor) shall not disturb or interfere with Lessee's quiet and peaceable enjoyment of the Leased Fibers.

1.6 [THIS SECTION HAS BEEN LEFT BLANK.]

1.7 Lessor Route Access. Lessee may access for interconnection purposes the Leased Fibers along the Lessor Route at any transmission site, regeneration site, existing splice location, point-of-presence ("POP") or mutually agreed upon splice point in accordance with Section 4.2 of this Agreement.

ARTICLE 2. DEFINITIONS

Unless otherwise defined herein, the terms used in this Agreement shall have their normal or customary meanings. In addition, for the purpose of this Agreement, the following terms shall have the meanings set forth:

Equipment	The fiber optic telecommunications equipment controlled by and used by Lessee to facilitate the transmission of communications over the fibers.
Leased Fibers	Fibers contained within a fiber optic cable installed by Lessor whereby Lessor does not initiate, generate or terminate signal of any type on these fibers but converts copper signal to light for transmission across optical fiber.
Underlying Rights	Easements, licenses, franchises or other rights to use real property owned by public and private property owners, or other entities.

ARTICLE 3. TERM

The initial term of this Agreement shall commence as of the date and year first above written and shall continue for a period of twenty (20) years from the date of Acceptance, as defined in Article 5. This Agreement may be renewed by Lessee for two additional periods of up to ten (10) years each, upon written notice from Lessee to Lessor at least 30 days' prior to the date on which the Agreement would otherwise terminate. To the extent that Lessee has placed any Lessee Equipment for use with the Leased Fibers under this Agreement, this Agreement shall survive termination for a period of sixty (60) days to allow Lessee to remove its Equipment. Any Equipment not removed shall become the sole property of Lessor.

ARTICLE 4. COMPENSATION

4.1 Lease Payments for Leased Fibers

4.1.1 Non-Recurring Charge Within forty-five (45) days of Acceptance of all or a portion of the Leased Fibers, Lessee shall pay to Lessor the applicable Non Recurring Charge(s) (NRC) indicated in Exhibit D. Therefore, Lessee shall complete all NRC payments indicated on Exhibit D within forty-five (45) days of the date on which Lessee has Accepted all of the Leased Fibers.

4.1.2 Monthly Recurring Charge Upon Lessee's Acceptance of the Leased Fibers at each site identified in Exhibit A, Lessor shall begin invoicing Lessee a Monthly Recurring Charge (MRC) for the lease of the fiber as indicated on the site list contained in Exhibit A. The MRC includes maintenance of the Leased Fibers pursuant to Article 6.

4.1.3 Offset by Mutual Agreement With regard to the MRC, upon mutual agreement, the parties may offset amounts due between them so that one party delivers to the other a check for the net amount due between the parties.

4.1.4 Billing Period Charges for NRC, MRC, and any other fees and charges pursuant to this Agreement must be invoiced by Lessor to Lessee within one year of the date on which the charges were incurred. Lessee will not be liable for any charges invoiced after this time period.

4.2 Power and Space at POPs

Lessor shall provide Lessee reasonable space and power to facilitate Lessee's use of the fibers within Lessor POPs, transmission sites or regeneration sites outside of the service area where Lessee is collocating with Lessor or at Lessee's POPs. Rates for space and power at sites within Lessor's service area will be subject to state and federal tariffs and shall be specified in an additional collocation agreement as required.

Lessor shall send all invoices for the Lease of Leased Fibers hereunder, to:

City of Moline
Office of Information Technology
619 16th Street
Moline, Illinois, 61265
Phone: 309-524-2292
nscott@moline.il.us

Lessee shall send all payments payable hereunder, to:

XYZ Communications, Inc.
ABC Street
Anytown, Anystate 99999

Any amounts due but unpaid within 45 days of receipt of a written invoice from Lessor, and not including amounts disputed by Lessee, may be subject to a late payment charge calculated from the invoice due date to the date paid, at an interest rate of 0.75% per month or the maximum amount allowed by law, whichever is less. Lessor may suspend or terminate service provided to Lessee if within thirty (30) days of receipt of written notice of nonpayment, Lessee fails to pay Lessor all undisputed past due amounts.

ARTICLE 5. TESTING AND ACCEPTANCE

5.1 Lessor shall perform testing on the Lessor Route to determine the performance level of the Leased Fibers. Lessor shall provide Lessee with five (5) business days' notice prior to Lessor testing the Leased Fibers. Lessee shall have the right, at its expense, to have technicians present when testing is performed; provided, however the failure of Lessee technicians to be present during testing shall not delay the testing of the Leased Fibers. Lessor shall provide Lessee with a copy of the test results. Based on Lessee's review of the test results, the parties shall mutually agree upon a list of items to be corrected, if any. Lessor will correct items necessary to bring the Leased Fibers to the Specifications at Lessor's sole cost and expense. When the Leased Fibers are deemed by the parties to meet the Specifications, Lessor will provide to Lessee a Notice of Acceptance of the Leased Fibers ("Acceptance"), in writing. Lessee shall within ten (10) days' receipt of the Notice of Acceptance either execute and return the Notice of Acceptance or indicate additional items that require correction to meet the Specifications.

5.2 In the event that deficiencies are identified or the cable fails to meet Specifications, Lessor shall correct any such deficiencies or failures within ten (10) days. Should any such identified deficiencies remain uncorrected at the end of ten (10) days, Lessee may elect to continue this Agreement without liability for payment of the Fiber Lease Fee until Lessor corrects the deficiencies. Should any such identified deficiencies remain uncorrected at the end of twenty (20) days, Lessor shall provide alternate fibers between the agreed-upon endpoints at no additional cost to Lessee. If Lessor does not provide alternate fibers meeting the Specifications within an additional twenty (20) days (or another period mutually agreed to in writing by Lessor and Lessee), then Lessee, in its sole discretion, may decide whether to accept the deficient fibers, to extend the time in which Lessor seeks to deliver alternate fiber or to terminate the Agreement and receive a refund of the NRC amounts paid to Lessor.

5.3 If Lessor is unable to deliver the Leased Fibers meeting the Specifications set forth on Exhibit B within fourteen (14) days of the date on which Lessee paid to Lessor the first half of the NRC payment described in Section 4.1.1, then Lessee may elect to terminate the lease with respect to those fibers that have not been delivered and Accepted. In that event, Lessor must refund to Lessee a prorated portion of the NRC based on the route miles that were not Accepted compared to the total route miles of the Leased Fibers.

ARTICLE 6. MAINTENANCE

6.1 Lessor shall construct, test and maintain the Lessor Route, including the Leased Fibers, in accordance with the Specifications in Exhibit B and shall maintain and repair Equipment in coordination with Lessee's Network Operations Center, for the term of this Agreement and any renewal terms.

6.2 Lessor shall perform all routine and ordinary maintenance and repairs, as well as emergency repairs, to correct any failure, interruption or impairment in the operations of the Lessor Route, including the Leased Fibers and Equipment on the Route; provided, however, any maintenance, repair or replacement of other equipment or fibers on the Lessor Route required due solely to acts or omissions of Lessee, its employees, agents or contractors shall be performed by Lessor but at the reasonable expense of Lessee.

6.3 Lessor will endeavor to perform maintenance work that will not in most circumstances result in interruptions or degradation of service within the Leased Fibers except in emergencies. If Lessor's routine maintenance is of the type that could result in interruption, loss or degradation of service within the Leased Fibers, Lessor shall so notify Lessee in writing via facsimile or e-mail at least fourteen (14) days before such interruption. Lessor shall perform routine system maintenance between Midnight and 5:00 a.m. local time of the location affected and schedule major system maintenance at a time mutually agreed upon by Lessee and Lessor. Maintenance shall not exceed 12 hours in any continuous 90-day period.

6.4 Except for relocations required by an act or omission of Lessee, its employees, agents or contractors, all required relocation of the Lessor Route shall be the responsibility of Lessor and shall be performed at Lessor's sole cost. Any relocation requested by Lessee may be performed by Lessor, at its sole discretion, and any such relocation shall be subject to the prepayment by Lessee of Lessor's estimated actual cost plus reasonable administrative expense of relocating the Lessor Route; subject to a "true up" of actual costs following completion of the requested relocation. Notwithstanding the foregoing, relocations performed at the request of Lessee will be presented to Lessee for review and approval by Lessee.

6.5 From and after the Acceptance Date, if all or any part of the Lessor Route is damaged or destroyed such that the Leased Fibers become inoperable, subject to the terms and conditions of this Agreement, Lessor shall promptly restore or repair the Lessor Route and the Leased Fibers to the Specifications under this Agreement using service restoration procedures routinely used in the telecommunications industry.

6.6 The parties shall provide each other with a contact/escalation list to aid in trouble reporting and resolution. The current list is attached as Exhibit C and may be revised from time to time by written notice.

ARTICLE 7. <u>NETWORK ACCESS: INTERCONNECTION</u>

7.1 Lessee shall have the right to connect at any existing splice locations in addition to those set forth in Exhibit A ("Additional Connections/Connection Subtraction"), so long as such connection does not impose an unreasonable impairment on the larger Lessor Route. If Lessee desires Additional Connections, then Lessee shall make a written request to Lessor and provide information reasonably requested by Lessor to assess the feasibility of providing such Additional Connections. Following receipt of Lessee's request, the parties will negotiate in good faith for the construction and installation of such Additional Connections/Connection Subtraction at Lessor's Costs as defined in 7.1.1 below. Lessee will not be liable for any additional Monthly Recurring Charges for the Additional Connections/Connection Subtraction. If Lessor agrees to Additional Connections/Connection Subtraction, the conditions and terms of this Agreement shall apply to the Additional Connections/Connection Subtraction. If the Additional Connections/Connection Subtraction involve another collocation site, then the Collo Agreement shall be deemed to control the obligations of the parties with respect to any additional collocation required by an Additional Connection. Notwithstanding any other provisions contained herein, the parties agree that interconnection to Lessee's own fiber will not constitute an "Additional Connection" and will not subject Lessee to any additional charges.

7.1.1 As consideration for the construction and installation of each Additional Connection, Lessee shall pay Lessor's Costs as agreed in advance, in writing by Lessee and Lessor. For purpose of this Section 7.1.1, "Costs" means actual, direct expenses of Lessor paid or payable for reimbursable projects, including reasonable internal labor costs and overhead and other direct costs and out-of-pocket expenses on a pass-through basis (e g., equipment, materials, supplies, contract services, etc.). Lessee shall pay such Costs after receipt of satisfactory test results in accordance with Section 5, Acceptance, and within thirty (30) days of receipt of invoice from Lessor.

7.1.2 In order to schedule an Additional Connection, Lessee shall request and coordinate such work not less than sixty (60) days in advance of the date the connection is requested to be completed. Such work will be restricted to a maintenance window (12:00 midnight to 5:00 A.M. Local Time), unless otherwise agreed to in writing for specific projects. Neither Lessee nor Lessor shall have any limitations on the types of electronics or technologies employed to utilize its fibers, subject to Lessor safety procedures and so long as such electronics or technologies do not interfere with the use of or present a risk of damage to any portion of the other party's system. In the event of interference, the parties shall negotiate in good faith to resolve the interference; provided, however, if the interference cannot be resolved, Lessor shall have the right to take such action as reasonably necessary to eliminate the interference.

7.1.3 In Lessor's sole discretion, the interconnection of an Additional Connection may be made at an existing utility hole, manhole or handhold, or Lessor may decide to construct a meet-me manhole ("Meet Point") to facilitate the interconnection. The establishment, size, design, and location of this Meet Point shall be determined by Lessor, so long as the location is in an area within 100 feet of the desired location of the Additional Connection. Lessor will determine in its sole discretion whether Lessee shall be solely responsible for the construction cost of the Meet Point or whether Lessor will share or completely bear the construction cost. In addition, Lessor will determine in its sole discretion the ownership of the Meet Point and terms of Lessee use and access.

7.1.4 It is understood that Lessor is not required to construct any additional facilities for Lessee with respect to an Additional Connection, except that provided for in Lessor's response to Lessee's RFP as respects an Alternate ISP location.

7.1.5 With respect to Additional Connections/Connection Subtraction, Lessee shall be responsible for obtaining, installing and maintaining its own optical amplifier, regeneration, junction, POP and terminal sites along the Lessor Route, at Lessee's sole cost and expense. In addition, Lessee shall be required to obtain for itself any Underlying Rights required to place Lessee facilities or equipment within the public rights of way including authorizations from governmental agencies and third parties. Except for the right to transmit signals through the Leased Fibers, Lessor is under no obligation to share its Underlying Rights with Lessee.

ARTICLE 8. CONFIDENTIAL INFORMATION

The parties acknowledge that it may be necessary to provide to each other access to confidential and/or Proprietary Information ("Proprietary Information") in connection with the negotiation, execution and performance of this Agreement. Proprietary Information shall be clearly identified or labeled as such by the disclosing party at the time of disclosure. Any verbal statement deemed to be proprietary shall be reduced to writing and identified as proprietary within seven (7) days of the disclosure to be protected. Each party shall protect the confidentiality of the Proprietary Information in the same manner, but in no less than a commercially reasonable manner, as it protects its own Proprietary Information of like kind. The parties shall return all Proprietary Information of the other upon the earlier of a request by the disclosing or upon termination of this Agreement. Neither party shall reproduce, disclose or use the Proprietary Information of the other without written authorization except in performing its obligations under this Agreement or as required by law. The limitations on reproduction, disclosure, or use of

Proprietary Information shall not apply to Proprietary Information which (a) was developed independently by the party receiving it; (b) was lawfully received from other sources without an obligation of confidence; (c) is published or otherwise disclosed to others by the disclosing party without restriction, or otherwise comes within the public knowledge or becomes generally known to the public without breach of this Agreement.

ARTICLE 9. WARRANTIES

9.1 THE WARRANTIES AND REMEDIES SET FORTH IN THIS AGREEMENT CONSTITUTE THE ONLY WARRANTIES AND REMEDIES WITH RESPECT TO THIS AGREEMENT. SUCH WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE.

9.2 Each party represents and warrants to the other that it has the right to perform its obligations hereunder and that it is an entity, duly organized, validly existing and in good standing under the laws of its origin, with all requisite power to enter into and perform its obligations under this Agreement in accordance with its terms.

9.3 Lessor represents and warrants to Lessee, that the Lessor Route has been installed in a workmanlike manner and in accordance with the Exhibits to this Agreement. Lessor shall further warrant that the Lessor Route will operate in accordance with Exhibit B for the term of that Agreement (as extended). In the event that the Leased Fibers fail to perform in accordance with Exhibit B, Lessee shall have the rights and remedies as set forth in Article 11.

9.4 Lessor shall have obtained and shall maintain throughout the term of this Agreement, all required construction permits and appropriate agreements, licenses or franchises for installation and use of the Lessor Route in ducts, on poles, and/or in trenches on public and private property. It is expressly understood that the Lessor Route may be installed in or on rights of way, the use of which is licensed or leased to Lessor by others. Lessor shall immediately inform Lessee in the event that Lessor is unable, after diligent and good faith efforts, to obtain renewals of existing licenses or leases, new licenses or new leases.

9.5 Lessor shall comply with the Civil Rights Act of 1964, as amended, all applicable State and Federal nondiscrimination laws including but not limited to the Family and Medical Leave Act, the Americans with Disabilities Act, the Age Discrimination in Employment Act and shall comply with the provisions of the Illinois Human Rights Act. Lessor shall hold Lessee harmless in every way, and agrees to indemnify and defend Lessee against any claim against Lessee for claimed violation of state or federal discrimination laws in connection with Lessor's installation or maintenance of dark fiber lines, NTE, or provisioning of related Services.

9.6 If Lessor hires or maintains twenty-five (25) or more employees, Lessor does certify by bidding that pursuant to Section 3 of the Illinois Drug-Free Workplace Act (30 ILCS 580/3) it shall provide a drug-free workplace for all employees engaged in the performance of work under the contract by complying with the requirements of the Illinois Drug-Free Workplace Act and, further certifies to Lessee, that it is not ineligible for Agreement by reason of debarment for a violation of the Illinois Drug- Free Workplace Act.

9.7 LESSOR SHALL COMPLY WITH THE PROVISIONS OF THE ILLINOIS PREVAILING WAGE ACT, 820 ILCS 130/1 ET SEQ. WHEN CONSTRUCTING ANY LINE OR

INSTALLING ANY EQUIPMENT EXCLUSIVELY FOR THE USE OF LESSEE.

ARTICLE 10. INDEMNIFICATION

10.1 Subject to the limitations contained in this Agreement, the parties ("Indemnitor") shall indemnify, defend and hold each other, their respective officers, directors, employees, contractors and agents ("Indemnitees"), harmless from and against any and all loss, liability, damage and expense (including attorneys fees) arising out of any demand, claim, suit or judgment for damages to any physical property or bodily injury or death to any person ("Claim") which is caused by a negligent act or omission of the Indemnitor, its employees, agents or contractors except to the extent that such Claim is a result of a negligent act or omission of the Indemnitees.

10.2 Lessee will defend, indemnify, and hold harmless Lessor and its officers, directors, employees, agents and contractors from or all damages resulting from any third party claims arising out of, or connected to, Lessee's ability or inability to use the Leased Fibers, including claims arising from content transmitted through the Leased Fibers, and/or interruptions, or outages in the Leased Fibers.

10.3 Except as otherwise provided in this Agreement, Lessor shall indemnify, defend, protect and hold Lessee, its affiliates, officers, directors, and employees, harmless from any and all liabilities, judgments, claims, losses, obligations, damages, penalties, actions, or other proceedings, suits, costs, fees, expenses and disbursements, whether by judgment or settlement, (including without limitation reasonable attorneys' fees) (collectively, "Infringement Claim") arising out of, relating to or resulting from allegations that the Leased Fibers provided by Lessor infringes the Intellectual Property Rights of any person or entity. For purpose of this Agreement, Intellectual Property Rights shall mean any patent, copyright, trademark, trade dress, and trade name, related registrations and applications for registration, and trade secrets, moral rights and goodwill. If the Leased Fibers are held to infringe Intellectual Property Rights (or a third party claims that the Leased Fibers infringe Intellectual Property Rights), Lessor may, at its sole expense elect promptly to do any of the following (i) procure for Lessee the right to continue using the Leased Fibers under this Agreement; (ii) modify the Leased Fibers so they are no longer infringing; or (iii) replace the Leased Fibers with non-infringing products that are functionally equivalent or superior in performance.

10.4 Except as otherwise provided in this Agreement, Lessee shall indemnify, defend, protect and hold Lessor, its affiliates, officers, directors, and employees, harmless from any and all liabilities, judgments, claims, losses, obligations, damages, penalties, actions, or other proceedings, suits, costs, fees, expenses and disbursements, whether by judgment or settlement, (including without limitation reasonable attorneys' fees) (collectively, "Infringement Claim") arising out of, relating to or resulting from allegations that the content transmitted within, or Lessee's use of the Leased Fibers provided by Lessor infringes the Intellectual Property Rights of any person or entity. For purpose of this Agreement, Intellectual Property Rights shall mean any patent, copyright, trademark, trade dress, and trade name, related registrations and applications for registration, and trade secrets, moral rights and goodwill.

10.5 LESSOR SHALL HOLD LESSEE HARMLESS IN EVERY WAY, AND AGREES TO INDEMNIFY AND DEFEND CUSTOMER AGAINST ANY CLAIM AGAINST LESSEE DUE TO LESSOR'S INSTALLATION, MAINTENANCE, OR FAILURE TO MAINTAIN LESSOR'S FIBER, CONDUIT, OPTICS, OR OTHER RELATED EQUIPMENT OR SERVICES. IN RETURN, LESSEE ACKNOWLEDGES LESSOR SHALL NOT BE LIABLE FOR COMPUTER VIRUSES, WORMS, COMPUTER SABOTAGE, "DENIAL OF SERVICE" ATTACKS, DNS SPOOFING ATTACKS, AND/OR OTHER HACKING ATTACKS OF A SIMILAR NATURE OR INTEROPERABILITY OF SPECIFIC LESSEE APPLICATIONS DUE TO LESSOR'S PROVISIONING OF ACCESS TO SERVICE NOT DIRECTLY OR INDIRECTLY CAUSED BY THE NEGLIGENCE OR

MISCONDUCT OF LESSOR OR ANY EMPLOYEE OR AGENT OF LESSOR.

ARTICLE 11. SERVICE OUTAGES; LIMITATION OF LIABILITIES

11.1 In the event the Leased Fibers fail to meet the Specifications (such event, an "Outage") under this Agreement, the following terms will apply. "Path-Protected" means a dual-path installation in which the Leased Fibers are installed with a distance of at least 20 feet between them at all points on the route.

Path-Protected Routes: Lessor shall use its best efforts to restore the Leased Fibers so that they return to Specifications within 6 hours of the time that Lessor becomes aware of the failure, by its own discovery or notification from Lessee. If not restored after 24 hours, then Lessor shall credit Lessee with twenty percent (20%) of the total MRC for the invoice period in which the failure to meet Specifications occurs. If not restored after 48 hours, then Lessor shall credit Lessee with one hundred percent (100%) of the total MRC for the invoice period in which the failure to meet Specifications occurs.

Non-Path-Protected Routes: Lessor shall use its best efforts to restore Leased Fibers so that they return to Specifications within 8 hours of the time that Lessor becomes aware of the failure, by its own discovery or notification from Lessee. If not restored after 48 hours, then Lessor shall credit Lessee with twenty percent (20%) of the total monthly maintenance fee for the invoice period in which the failure to meet Specifications occurs. If not restored after 72 hours, then Lessor shall credit Lessee with one hundred percent (100%) of the total monthly maintenance fee for the monthly invoice period in which the failure to meet Specifications occurs.

Except as contemplated herein as liquidated damages, the total Credit Allowance due to Outage during any single monthly invoice period will not exceed one hundred percent (100%) of the total MRC.

No Credit Allowance shall be due if the outage or interruption is (i) caused by Lessee, its employees, agents or subcontractors; (ii) due to failure of power provided by Lessee or the public utility company supplying power to Lessor or Lessee; (iii) due to scheduled maintenance and repair in accordance with the terms of this Agreement; (iv) failure or outage in the equipment or facilities of Lessee regardless of the cause; or (v) Force Majeure events. The time shall start when a trouble ticket is opened and shall terminate when the ticket is acknowledged as resolved and closed by both Lessor and Lessee.

11.2 **IN NO EVENT SHALL EITHER PARTY BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, RELIANCE, PUNITIVE OR ENHANCED DAMAGES OF ANY KIND OR NATURE WHATSOEVER (INCLUDING BUT NOT LIMITED TO ANY LOST PROFITS, LOST SAVINGS, OR BUSINESS HARM) ARISING OUT OF OR RELATING TO THE LEASED FIBERS OR THE PERFORMANCE OR NONPERFORMANCE UNDER THIS AGREEMENT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

11.3 To the extent that Leased Fibers experience an Outage, Lessee and Lessor agree that Lessee's sole and exclusive remedy shall be the Credit Allowances for interruptions as provided in Article 11 of this Agreement together with Lessee's right to terminate this Agreement as otherwise provided herein.

ARTICLE 12. INSURANCE

12.1 Each party shall maintain Commercial General Liability insurance including blanket contractual coverage in the amount of $1,000,000 per loss either through a certified self-insurance program or with insurance carriers with an A+ rating or above, covering obligations of the parties under this Agreement. Such liability insurance shall name the other party hereto as additional insured and shall be primary and non-contributing coverage for claims arising out of such party's obligations in this Agreement. Prior to commencing performance of this Agreement, each party shall furnish the other party with a certificate of insurance, verifying that the insurance required to be maintained is in full force and effect throughout the term of this Agreement. Further, each party shall notify the other party in writing thirty (30) days prior to any cancellation or non-renewal of said insurance. The insurance required under this section does not limit in any way the responsibilities of either party under the Indemnifications contained in this Agreement.

12.2 Waiver of Subrogation. Each party shall look first to any insurance in their favor before making any claim against the other party for recovery resulting from injury to any person or damage to any property arising from any cause, regardless of negligence, and does hereby release and waive, and shall cause their respective insurers to waive, their rights or recovery by subrogation against the other party. The foregoing release and waiver shall be in force on any particular claim only if releaser's insurance policy applicable to the claim contains a clause providing that such a release or waiver shall not invalidate the insurance.

ARTICLE 13. DEFAULT

If either party fails to perform any material term, provision, covenant, condition, agreement, or obligation under this Agreement, and then does not cure such breach within thirty (30) days after receiving notice of the breach from the other party, such party shall be deemed in "Default" under this Agreement. In this event, the non-Defaulting party shall be entitled to pursue any and all remedies available under this Agreement including termination of this Agreement. If any non-monetary default cannot be cured within the 30-day period, an event of Default does not occur if the defaulting party commences to cure the Default within the 30-day period and diligently completes the cure as soon as reasonably practicable, but in any event within sixty (60) days after receiving the Default notice.

ARTICLE 14. UNDERLYING RIGHTS.

The parties acknowledge that Lessor obtains rights, authorizations and/or licenses from third parties and/or governmental authorities including access rights from building owners ("Underlying Rights") to provide certain services as contemplated under this Agreement and that these Underlying Rights may be modified or withdrawn through no fault of either party during the term of this Agreement. The parties agree that if the Underlying Rights are withdrawn or modified, the parties shall negotiate in good faith certain modifications to this Agreement necessary to comply with the loss of, or change to, the Underlying Rights or regulations. If the parties cannot agree on the required modification to this Agreement, then to the extent possible, such portion of the Agreement affected by the loss or change to the Underlying Rights may be terminated; provided, however, if partial termination is not practical or it substantially alters the fundamental terms of this Agreement, then either party may terminate this Agreement in its entirety without further liability to the other party.

ARTICLE 15. TAXES

Lessor shall pay any and all franchise fees, gross receipts, income, sales, use, property, excise and other taxes and governmental fees directly applicable to the leasing of the Leased Fibers to Lessee. To the extent that Lessor incurs additional right-of-way ("ROW"), pole attachment/conduit charges above and beyond what it paid prior to this Agreement which are directly related to the presence of the Leased Fibers in the ROW, pole, or conduit, Lessee agrees to pay a proportionate share of any such charges based on the number of Leased Fibers in relation to the total fibers contained in the Lessor Route upon invoice by Lessor. Each party shall be responsible for property taxes imposed on each respective party's personal property. Lessee will provide Lessor a certificate and/or statement that the Leased Fibers are leased for resale of services to third parties.

ARTICLE 16. REGULATORY COMPLIANCE.

Except as otherwise provided in this Agreement, Lessor shall maintain governmental authorizations and regulatory approvals required, if any, to provide the Leased Fibers to Lessee. Lessee shall at its own expense obtain all regulatory approvals, permits, and authorizations for Lessee's use of the Leased Fibers.

ARTICLE 17. FORCE MAJEURE

In no event shall either party have any claim or right against the other party for any failure of performance by such other party if such failure of performance is caused by or the result of (i) causes beyond the reasonable control of such other party, including, but not limited to, acts of God, fire, flood, or other natural disaster; (ii) laws, orders, rules, regulations, directions, or actions of governmental authorities having jurisdiction over this Agreement; (iii) any civil or military action including national emergencies, riots, war, civil insurrections, or (iv) taking by condemnation or eminent domain of a party's facilities or equipment ("Force Majeure"). If a Force Majeure occurs during the term of this Agreement, this Agreement shall remain in effect for a period of thirty (30) days from the date of the inception of such Force Majeure event, but the parties' performance and payment obligations under this Agreement shall be suspended for such thirty (30) day period. In the event the Force Majeure event continues for a period longer than thirty (30) days, Lessee may terminate this Agreement without liability other than payment and performance obligations accrued prior to the date of the inception of the Force Majeure event.

ARTICLE 18. MISCELLANEOUS

18.1 Any work performed by either party on the premises of the other party shall be performed while taking all industry-standard, necessary precautions to prevent the occurrence of any injury to persons or property during the progress of such work and shall adhere to Lessor security procedures, policies and operation. Lessor shall be responsible for providing to Lessee at least 24 hours prior notice of intended access to Lessee site and seeking permission in advance of access. Lessor shall be responsible for seeking and acquiring a clear fingerprint-based Criminal Background Check in advance of sending anyone to access Lessee property. No one shall be permitted to access or enter upon Lessee property without passing a fingerprint-based Criminal Background Check. In the event Lessor has an emergency situation which requires immediate access and prevents 24 hours prior notice, Lessor may not access building without accompaniment of Customer's Superintendent of Schools or his or her authorized representative.

18.2 The relationship created between the parties by virtue of this Agreement shall be solely that of vendor-purchaser as independent contractors. No agency, joint venture, or joint business relationship shall be deemed created hereunder. Neither party incurs a fiduciary relationship to the other under this Agreement and neither party is responsible for the losses, debts, obligations or liabilities of the other. There are no third party beneficiaries to this Agreement and Lessee is solely responsible for its relationship with third parties to whom Lessee may provide services over the Leased Fibers.

18.3 This Agreement, together with all Exhibits, shall constitute the entire agreement relating to the fiber route and no negotiations or discussions prior to execution shall be of any effect.

18.4 The invalidity in whole or in part of any provision shall not affect the validity of any other provision.

18.5 The right and remedies of the parties shall be cumulative and in addition to any other rights and remedies provided by law or equity. A waiver of a breach of any provision hereof shall not constitute a waiver of any other breach. The laws of the state of Illinois shall govern this Agreement without regard to conflicts of law provisions. The Parties agree that any action related to this Agreement shall be brought and maintained only in a federal or state court of competent jurisdiction serving Rock Island County, Illinois. The Parties each consent to the jurisdiction and venue of such courts and waive any right to object to such jurisdiction and venue.

18.6 No subsequent agreement concerning the Leased Fibers shall be effective unless made in writing and executed by authorized representatives of the parties.

18.7 Notices shall be in writing, mailed certified with return receipt requested or by overnight courier, effective upon receipt and sent to:

Lessor.:

Attn: Matt Storm
Geneseo Communications
~~111 E. 1st. Street~~
~~Geneseo, IL. 61254~~

Copy to: ____________
____

Lessee:

City of Moline
Office of Information Technology
619 16th Street
Moline, Illinois, 61265
Phone: 309-524-2292
nscott@moline.il.us

or to replacement addresses that may be later designated in writing.

18.8 Except as provided herein, Lessee shall not assign this Agreement in whole or in part, nor sublet the Leased Fibers, without the prior written consent of Lessor, such consent not to be unreasonably withheld. However, Lessee may assign this Agreement in whole or in part to an affiliate, subsidiary or parent company of Lessee or pursuant to consolidation, dissolution, annexation, or other reorganization to the full extent permitted or required by law. Lessor may, upon notice to Lessee, assign its rights and obligations hereunder in whole or in part to an affiliate, subsidiary or parent company of Lessor or pursuant to a merger, stock sale or sale or exchange of substantially all of the assets of Lessor. This Agreement binds and inures to the benefit of any permitted assignees or successors to the parties.

ARTICLE 19. COUNTERPARTS

To facilitate execution, the Agreement may be executed in as many counterparts as may be required. It shall not be necessary that the signature of or on behalf of each party appears on each counterpart, but it shall be sufficient that the signature of or on behalf of each party appears on one or more of the counterparts. All counterparts shall collectively constitute a single agreement. It shall not be necessary in any proof of the Agreement to produce or account for more than a number of counterparts containing the respective signatures of or on behalf of all of the parties.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year below written, but effective as of the day and year first set forth above.

______________________	Geneseo Communications
By:______________	By: [signature]
Name:	Name: Matt Storm
Title: ______________	Title: General Manager
Date: ______________	Date: 4/20/2016

EXHIBIT A – Route Diagram and Site List

Lessee shall provide to lessor the following Routes as specified in the table below. Mileages are provided for engineering purposes. Pricing for routes shall be the agreed upon rates and shall not vary based upon actual existing distances or changes to the routes which may be made in the future.

The following drawing of the system is provided for clarification purposes.

enal
Rodman Ave
River Dr
17th Ave
84
6th Ave
4th Ave
92
Moline
44th St
12th Ave
19th St
48th St
30th Ave
East Moline
16th Ave
34th St
18th Ave
19th Ave
Avenue of the Cities
71th St
41st St
53rd St
34th Ave
60th St
36th Ave
16th St
38th Ave
70th St
Rd
52nd Ave
27th St
1st Ave E
78
Google earth
© 2016 Google
W 1st Ave
E 1st Ave
N
1 mi

EXHIBIT B

FIBER SPLICING, TESTING AND MAINTENANCE STANDARDS AND PROCEDURES

1. Testing

A. Supplier shall use an optical time domain reflectometer ("OTDR") to test splices and shall use an OTDR and a 1-km launch reel to test pigtail connectors. Such initial construction tests shall be uni-directional and performed at 1550 nm.

B. The loss value of the pigtail connector and its associated splice measured from a two point uni-directional OTDR test will not exceed 0.8 dB. For values greater than this, the splice will be broken and re-spliced until an acceptable loss value is achieved. If after five (5) attempts, the contractor is not able to produce a loss value less than 0.8 dB, the splice will be marked as Out-of-Spec (OOS). The pigtail connector and associated splice with launch box connector shall not have reflectance >-45dB, i.e., -43 dB or -41 dB is unacceptable. If cleaning does not reduce reflectance then contractor must re-splice a new pigtail.

C. If the loss value for a splice, when measured in one direction with an OTDR, exceeds 0.15 dB, Supplier shall break the splice and re-splice until the loss value is 0.15 dB or less, provided that, if Supplier is not able to achieve a loss value of 0.15 dB after three total splicing attempts, then the maximum loss value shall be 0.3 dB. If, after two additional resplicing attempts, Supplier is not able to achieve a loss value of 0.3 dB or less, then Supplier shall mark the splice as Out-of-Spec (OOS).

2. End-to-End Testing

A. After Supplier has established end-to-end connectivity on the fibers during initial construction, it shall:

- o perform bi-directional end-to-end tests,
- o test continuity to confirm that no fibers have been "frogged" or crossed at any splice points,
- o record loss measurements using a light source and a power meter, and
- o take OTDR traces and record splice loss measurements.

B. Supplier shall perform the bi-directional end-to-end tests and OTDR traces at both 1310 nm and 1550 nm, provided that 1310nm OTDR tests are not required for spans longer than 64 kilometers. Supplier shall measure and verify losses for each splice point in both directions and average the loss values. The average of all bi-directional splice losses within each span shall be 0.15 dB or less. Supplier shall mark any splice point as Out-of-Spec (OOS) that has an average loss value, based on bi-directional OTDR testing, in excess of 0.3 dB. No reflective splices will be accepted.

3. Post-Construction Testing

After performing permanent resplicing (in conjunction with repair of a cable cut, replacement of a segment of cable, or other work after initial installation and splicing of the cable), the test procedures set forth in Section 2 (End-to-End Testing) of this Exhibit, shall apply to the relevant fibers and cable segments. The provisions in Sections 4 (OTDR Equipment and Settings) and 5 (Acceptance Test Deliverables) of this Exhibit, that are relevant to such testing shall also apply. Supplier may, after the Acceptance Date, adopt any alternative methods of testing that are generally accepted in the industry and that provide sufficient data to fulfill the objectives of the tests set forth in this exhibit.

4. Out-of-Spec Splices

Out-of-Spec splices shall be noted, but shall not preclude acceptance of a fiber if the Out-of-Spec condition does not affect transmission capability (based on use of then-prevailing telecommunications industry standards applicable to equipment generally used with the relevant type of fiber) or create a significant possibility of an outage.

5. OTDR Equipment and Settings
Supplier shall use OTDR equipment and settings that are, in its reasonable opinion, suitable for performing accurate measurements of the fiber installed. Such equipment and settings shall include, without limitation, the Laser Precision TD3000 and CMA4000 models and compatible models for OTDR testing, and the following settings:
A. Index of refraction settings:

1310 nm	1550 nm

6. Acceptance Test Deliverables
Supplier shall provide data sheets or computer media containing the following information for the relevant fibers and cable segments:

A. Verification of end-to-end fiber continuity with power level readings for each fiber taken with a light source and power meter.

B. Verification that the loss at each splice point is either (i) below 0.3 dB or (ii) in accordance with the requirements of Section 4 of this Exhibit.

C. The final bi-directional OTDR test data, with distances.

D. Cable manufacturer, cable type (buffer/ribbon), fiber type, cable reel number, number of fibers, number of fibers per tube, and distance of each section of cable between splice points.

E. Final pigtail OTDR test data

Exhibit B, Attachment 1
Maintenance Specifications and Procedures

The party responsible for providing maintenance of the fiber optic system referenced in this Agreement (the "System") shall be referred to herein as the "Service Provider." The party receiving maintenance services from the Service Provider hereunder shall be referred to herein as the "Service Recipient." All other capitalized terms not otherwise defined herein shall have their respective meanings as set forth in the Agreement of which this Exhibit forms a part.

1. MAINTENANCE.

All maintenance shall be performed in accordance with Section 18.1 of Agreement.

(a) Scheduled Maintenance. Routine maintenance and repair of the System described in this Section 1 shall be performed by or under the direction of Service Provider, at Service Provider's reasonable discretion or at Service Recipient's reasonable request. Scheduled Maintenance shall commence upon the Acceptance Date of the Agreement. Scheduled Maintenance shall include the following activities:

(i) Patrol of System route on a reasonable routine basis;
(ii) Maintenance of a "Call-Before-You-Dig" program and all required and related cable locates;
(iii) Maintenance of marker posts along the System right-of-way; and
(iv) Assignment of fiber maintenance employees to locations along the System at intervals dependent upon terrain, accessibility, locate ticket volume, etc. Service Provider shall decide the staffing of fiber maintenance employees for the System.

(b) Unscheduled Maintenance. Non-routine maintenance and repair of the System, which is not included as Scheduled Maintenance, shall be performed by or under the direction of Service Provider. Unscheduled Maintenance shall commence upon the effective date of the Agreement. Unscheduled Maintenance shall consist of:

(i) "Emergency Unscheduled Maintenance" in response to an alarm identification by Service Provider's Operations Center, notification by Service Recipient or notification by any third party of any failure, interruption or impairment in the operation of the System, or any event imminently likely to cause the failure, interruption or impairment in the operation of the System.
(ii) "Non-Emergency Unscheduled Maintenance" in response to any potential service-affecting situation to prevent any failure, interruption or impairment in the operation of the System.

Service Recipient shall immediately report the need for Unscheduled Maintenance to Service Provider in accordance with procedures promulgated by Service Provider from time to time. Service Provider will log the time of Service Recipient's report, verify the problem and dispatch personnel immediately to take corrective action.

2. OPERATIONS CENTER. Service Provider shall operate and maintain an Operations Center ("OC") capable of receiving System alarms twenty-four (24) hours a day, seven (7) days a week. The Bitwise office handles any inbound calls from 8 am to 10 pm. Outside of such hours phone calls roll to Service Provider's voicemail system with an option to reach the on-call technician's cell phone. Service Provider shall provide to the Service Recipient, and shall maintain, an escalation list of subsequent contact points and contact information beyond the on-call technician. Service Provider's maintenance employees shall be available for dispatch twenty-four (24) hours a day, seven (7) days a week. Service Provider shall have its first maintenance employee at the site requiring Emergency Unscheduled

Maintenance activity within four (4) hours after the time Service Provider becomes aware of an event requiring Emergency Unscheduled Maintenance, unless delayed by circumstances beyond the reasonable control of Service Provider. Service Provider shall maintain a toll-free telephone number to contact personnel at the OC. Service Provider's OC personnel shall dispatch maintenance and repair personnel to handle and repair problems detected in the System.

3. COOPERATION AND COORDINATION.

(a) Service Recipient shall utilize an Escalation List, as updated from time to time, to report and seek immediate action on exceptions noted in the performance of Service Provider in meeting maintenance service objectives.

(b) In performing its services hereunder, Service Provider shall take workmanlike care to prevent impairment to the signal continuity and performance of the System. The precautions to be taken by Service Provider shall include notifications to Service Recipient. In addition, Service Provider shall reasonably cooperate with Service Recipient in sharing information and analyzing the disturbances regarding the cable and/or fibers. In the event that any Scheduled or Unscheduled Maintenance hereunder requires a traffic roll or reconfiguration involving cable, fiber, electronic equipment, or regeneration or other facilities of the Service Recipient, then Service Recipient shall, at Service Provider's reasonable request, make such personnel of Service Recipient available as may be necessary in order to accomplish such maintenance, which personnel shall coordinate and cooperate with Service Provider in performing such maintenance as required of Service Provider hereunder.

(c) Service Provider shall notify Service Recipient at least 7days prior to the date in connection with any Maintenance Window of any Scheduled Maintenance and as soon as possible after becoming aware of the need for Unscheduled Maintenance. Service Recipient shall have the right to be present during the performance of any Scheduled Maintenance or Unscheduled Maintenance so long as this requirement does not interfere with Service Provider's ability to perform its obligations under this Agreement. In the event that Scheduled Maintenance is canceled or delayed for whatever reason as previously notified, Service Provider shall notify Service Recipient at Service Provider's earliest opportunity, and will comply with the provisions of this Section.

(d) Within 72 hours following any Unscheduled Maintenance, Service Provider shall provide Service Recipient with a report detailing the reason(s) for any such Unscheduled Maintenance with a duration equal to or greater than four (4) hours.

4. FACILITIES.

(a) Service Provider shall maintain the System in a manner that will permit Service Recipient's use. All common systems within facilities along the System shall be maintained in accordance with manufacturer's specifications, to include battery plants, generators, and HVAC units.

(b) Except to the extent otherwise expressly provided in the Agreement, Service Recipient will be solely responsible for providing and paying for any and all maintenance of all electronic, optronic and other equipment, materials and facilities used by Service Recipient in connection with the operation of their dark fibers, none of which is included in the maintenance services to be provided hereunder.

5. FIBER OPTIC CABLE/FIBERS.

(a) Service Provider shall perform appropriate testing on the fiber optic cable contained in the System in accordance with Service Provider's then current preventative maintenance procedures as agreed to by

Service Recipient, which shall not substantially deviate from standard industry practice.

(b) Service Provider shall maintain sufficient capability to teleconference with Service Recipient during Emergency Unscheduled Maintenance in order to provide regular communications during the restoration process. When correcting or repairing fiber optic cable discontinuity or damage, including without limitation an event of Emergency Unscheduled Maintenance, Service Provider shall use reasonable efforts to arrive on site within four (4) hours of learning of traffic-affecting discontinuity and effect repair of first fiber within six (6) hours after the Service Provider maintenance employee's arrival at the problem site. In order to accomplish such objective, it is acknowledged that the repairs so effected may be temporary in nature. In such event, within twenty-four (24) hours after completion of any such Emergency Unscheduled Maintenance, Service Provider shall commence its planning for permanent repair, and thereafter promptly shall notify Service Recipient of such plans, and shall implement such permanent repair within an appropriate time thereafter. Restoration of open fibers on fiber strands not immediately required for service shall be completed on a mutually agreed-upon schedule.

(c) During restoration, the parties agree to work together to restore all traffic as quickly as possible. Service Provider, promptly upon arriving on the site of the cut, shall determine the course of action to be taken to restore the System and shall begin restoration efforts. Service Provider shall splice fibers tube by tube or ribbon by ribbon in a logical order with consideration to all dark fibers within the cable.

(d) In performing permanent repairs, including the repair of microbends and splice work, Service Provider shall comply with the splicing specifications as set forth in Exhibit B, and shall take all reasonable steps to ensure that attenuation across the zone of repair satisfies the specifications in Exhibit B. Service Provider shall provide to Service Recipient any modifications to these specifications as may be necessary or appropriate in any particular instance for Service Recipient's approval, which approval shall not be unreasonably withheld.

(e) Service Provider's representatives that are responsible for initial restoration of a cut fiber optic cable shall carry on their vehicles the typical appropriate equipment that would enable a temporary splice, with the objective of restoring operating capability in as little time as possible. Service Provider shall maintain and supply an inventory of spare fiber optic cable in storage facilities supplied and maintained by Service Provider at strategic locations to facilitate timely restoration.

6. MAINTENANCE WINDOW (MW). Scheduled Maintenance, which is reasonably expected to produce any signal discontinuity, must be coordinated between the parties. Generally, this work should be scheduled between midnight and 5 a.m. Central Time Monday through Friday. Major system work, such as fiber rolls and hot cuts, will be scheduled for weekends and shall allow work during daylight hours if on a Saturday or Sunday. Service Provider and Service Recipient will agree upon a MW calendar. The intent is to avoid jeopardy work on high-traffic holidays.

7. SUBCONTRACTING. Service Provider may subcontract any of the maintenance services hereunder, provided that Service Provider shall require the subcontractor(s) to perform in accordance with the requirements and procedures set forth herein. The use any such subcontractor shall not relieve Service Provider of any of its obligations hereunder.

EXHIBIT C

Contract/ Escalation List

Name/Location	Type Number	Phone Number	Hours
Lessee Service			
Kevin Stuart-Acct. Mgmt.	Office	309-944-8024	M-F 8 am-5 pm.
	Cell	309-714-2802	M-F 8 am-5 pm.
Craig Mills- Net. Ops.	Office	309-944-8087	M-F 8 am-5 pm.
	Cell	309-945-2839	M-F 8 am-5 pm.
Bill Parr- VP Network	Office	309-944-8089	M-F 8 am-5 pm.
	Cell	309-945-2463	M-F 8 am-5 pm.
Matt Storm- GM	Office	309-944-8012	M-F 8 am-5 pm.
	Cell	309-945-2503	M-F 8 am-5 pm.

After Hours or Holiday Contact- On Call Technicians

		309-944-2103	24/7

EXHIBIT D

Pricing Schedule

SCHEDULE 4 (2nd Revised)
Pricing

(INSTRUCTIONS: REPLACE CORRESPONDING PAGE FROM ORIGINAL RFP DOCUMENT WITH THIS)

2.2.1 Dark WAN Service (between City Facilities)

Label and append hereto breakdown of all Non-recurring and Monthly-recurring costs.

Base Bid Total Non-recurring costs (NRC) $ 295,000.00

Base Bid Monthly-recurring costs* (MRC) $ **$750.00/ month;** $180,000.00 / total term (240 months)

FROM THE BASE BID PRICING, THE FOLLOWING ALTERNATE ADD-ONS / DEDUCTS…

Alternate Add-on NRC for QCIC - Segments/locations "AC-AB-AD" $ 30,000.00

Alternate Add-on MRC for QCIC - Segments AC-AB-AD/location(s) $100.00/ month; $24,000.00/ total term (240 months.

Alternate Deduct(s) from Base Bid NRC for use of City-owned man-holes/hand-holds in bringing the fiber in-to/out-from each of the following locations:

LOCATION	DEDUCT	LOCATION	DEDUCT	LOCATION	DEDUCT
"A" (Fire, 2)	$0	"B" (Police, 2)	$0	"C" (City Hall, 2)	$0
"D" (Centre – via QCIC fiber, 1)	$0	"F" and "G" (WPC North, 1 each)	$0	"AJ" (Public Works, 2)	$0
"AN" and "AO" (Water Plant and Distribution, 1 each)		$0			

Alternate Deduct(s) from Base Bid MRC for use of City-owned man-holes/hand-holds in bringing the fiber in-to/out-from each of the following locations:

LOCATION	DEDUCT	LOCATION	DEDUCT	LOCATION	DEDUCT
"A" (Fire, 2)	$0	"B" (Police, 2)	$0	"C" (City Hall, 2)	$0
"D" (Centre – via QCIC fiber, 1)	$0	"F" and "G" (WPC North, 1 each)	$0	"AJ" (Public Works, 2)	$0
"AN" and "AO" (Water Plant and Distribution, 1 each)		$0			

Alternate Deduct NRC for ELIMINATING Splice Boxes at Segment Points/locations "H, I, P, Q, R, U, V, AG, AI and AM" $ 0

Alternate Deduct MRC for ELIMINATING Splice Boxes at Segment Points/locations "H, I, P, Q, R, U, V, AG, AI and AM"$0 / month;$0 / total term (240 months)

Alternate Deduct NRC for ELIMINATING Segments N-R and R-S including intervening points
O, P and Q $ 0

Alternate Deduct MRC for ELIMINATING Segments N-R and R-S including intervening points
O, P and Q $ 0 / month; $ 0 / total term (240 months)

Alternate Deduct NRC for USING EXISTING CITY OWNED CONDUIT CROSSING ROCK RIVER TO REACH Segments N-R and R-S including intervening points O, P and Q
$ 0

Alternate Deduct MRC for USING EXISTING CITY OWNED CONDUIT CROSSING ROCK RIVER TO REACH Segments N-R and R-S including intervening points O, P and Q
$ 0 / month; $ 0 / total term (240 months)

2.2.2 Managed Internet Access Service (to ISP Point-of-presence)

Label and append hereto breakdown of all Non-recurring costs.

Base Bid Total Non-recurring costs $ 5,000.00

Base Bid Monthly-recurring costs*
$1,495/ month;
$179,400/ total term (120 months)

2.2.3 Optional Alternative Internet Access Service (to ISP Point-of-presence)

Label and append hereto breakdown of all Non-recurring costs.

Base Bid Total Non-recurring costs $ 5,000.00

Base Bid Monthly-recurring costs*
$1,395.00/month;
$167,400.00/total term (120 months)

*Monthly recurring costs – at a minimum – to include, unless otherwise specified or excepted, all costs to City for IRU, service level commitment and any and all other costs known and unknown to Vendor.

Exhibit E
Lessees RFP Dated January 4, 2016

[This RFP Document]

SCHEDULE 3
Assurances

Instructions. Execute, sign and date each assurance page (3A) through (3J) attesting to Vendor's compliance to applicable law and/or City Policy and attach hereto at Schedule 3..

SCHEDULE 3A

VENDOR INFORMATION FORM

Name of Company: Geneseo Communications

Tax Payer ID# 36-3991407

Address: 111 E. 1st. Street

Geneseo, IL. 61254

Date Business Began: Jan. 1898

Telephone No.: 309-944-2103

Years at Location: 108 years

List of contact information for all officers, directors and principals:

Name: Scott Rubins
Title: CEO
Address: 111 E. 1st. St. Geneseo IL.
TelephoneNo.: 309-944-8002
Relationship: Officer

Name: Matt Storm
Title: General Manager
Address: 111 E. 1st. St. Geneseo IL.
TelephoneNo.: 309-944-8012
Relationship: Officer

Name: Bill Parr
Title: VP- Network Operations
Address: 111 E. 1st. St. Geneseo IL.
TelephoneNo.: 309-944-8013
Relationship: Officer

Description of services provided:

Geneseo Communications, Inc. is a leading communications and broadband service provider located in Henry County, Illinois. Geneseo Communications, Inc.'s main focus is to develop and deliver excellent residential and business services, aiming to provide next generation technologies, enhance satisfaction, and provide valuable solutions for its customers. For more than 108 years, the company has been connecting both residential and business customers with high-speed broadband, phone, security, and TV entertainment services in many different communities. Today, Geneseo Communications has more than 9,200 corresponding access

lines in service, 2,800 high-speed broadband connections and 675 TV and security service accounts. Residential and business customers select from the latest technologies, including: VoIP (managedIP) phone service, dedicated fiber fed broadband, data networking, and hosted-managed services.

Description of facilities/resources:
GCI's Network Operational Control center is powered by a new GENBAND C15 switch. This switch and all interconnection ports and equipment are supported by a five member staff that boasts strong engineering and technical programming skills with more than 125 years combined company experience.

GCI owns and operates its own internal billing system which is easily modifiable to meet the needs of the company's expanding business portfolio. GCI's sales and installation staff includes ten employees with over
130 years combined company experience with extensive training in the areas of information technology and broadband network setup. These individuals bring a broad range of specialties including complex system design, product proficiency, line provisioning, and network security specifications.

In the areas of engineering and fiber installation GCI employs a five member team with 100 years combined company experience with expertise in civil engineering, CAD software design, and constructional splicing, boring and plowing.

GCI's accounting system is flexible and easily capable of handling additional services. GCI has a dedicated accounting staff that includes two Certified Public Accountants and three clerical accounting clerks with more than 75 years combined company service. They are responsible for meeting all regulatory and external reporting requirements along with producing consolidated financial statements serving multiple boards of directors.

Description of staff (no./type/qualifications, etc.):
The company's 75 employees handle all tasks associated with GCI's telecommunication business including Marketing, Sales, Billing, Customer Service, Accounting, Information Technology, Engineering, Programming, Installation and Service.

The GCI team has extensive experience in the areas of project management, technology, project procurement and compliance. GCI's diversified solutions and services fulfill the various needs of all business sectors. Our technical expertise, vast experience, and knowledge of networks and telecommunications, ensure that all diversified applications operate smoothly together as one total solution. We help our clients to remain focused on their core business while we remain focused on providing them with innovative technologies that help improve services to their customers. We have successfully developed a variety of offerings with a high level of complexity. Our customer portfolio is diversified in the business sector including Government, Education, Transportation, Healthcare, Finance & Banking and Utilities. Services include consultancy, solution design, full turnkey implementations for medium and large scale projects, training, operation & maintenance and professional services.

Brief history of company:
Geneseo Communications, Inc. is a leading communications and broadband service provider located in Henry County, Illinois. Geneseo Communications, Inc.'s main focus is to develop and deliver excellent residential and business services, aiming to provide next generation technologies, enhance satisfaction, and provide valuable solutions for its customers. For more than 108 years, the company has been connecting both residential and business customers with high-speed broadband, phone, security, and TV entertainment services in many different communities. Today, Geneseo Communications has more than

9,200 corresponding access
lines in service, 2,800 high-speed broadband connections and 675 TV and security service accounts. Residential and business customers select from the latest technologies, including: VoIP (managedIP) phone service, dedicated fiber fed broadband, data networking, and hosted-managed services.

Geneseo Communications, Inc. also manages the operations of Geneseo Telephone Company, Cambridge Telcom Services, Inc. and Henry County Telephone Company and their subsidiaries including Colohub, GenSoft Systems, Inc., Global Medical Informatics, LLC (GMI) and IDC Technology Solutions. These companies
support a diverse offering of products and services including data center services, telecommunications, billing solutions, medical transcription services, security products and computer retail and repair services. Employed within these company divisions are people who specialize in engineering, technical programming, and IT management.

Geneseo Communications, Inc. is more than a service provider; we are our clients' business partner. We help boost productivity allowing them to succeed in an increasingly challenging business world by successfully integrating the latest technology products and solutions that deliver today's mission critical services and solutions.

Client reference list of major customers and projects (include address and telephone number.):

Ryan White- Black Hawk College
whitery@bhc.edu
309-796-5194

Brian Nelson- Rock Island County 911
briann@ricoetsb.org
563-508-1332

Marlene Dyer- City of East Moline
mdyer@eastmoline.com
309-751-2332

Mike Perva- Kewanee Schools
mperva@kcud229.org
309-525-0894

Verified by ____________________
Date Verified ____________________

SCHEDULE 3B
Civil Rights

CERTIFICATE OF COMPLIANCE
WITH ILLINOIS HUMAN RIGHTS ACT

All successful contractors must comply with the provisions of the Illinois Human Rights Act (ACT) dealing with equal employment opportunities (Section 2-105, 775 ILCS 5/2-105) including equality of employment opportunity and the regulations of the Department of Human Rights of the State of Illinois and also must provide for the adoption and implementation of written Sexual Harassment Policies. The contract with the successful bidder will provide for this requirement. The statutory provisions require that the written Sexual Harassment policy included at a minimum the following information: (i) the illegality of sexual harassment, (ii) the definition of sexual harassment, under Illinois law, (iii) a description of sexual harassment, utilizing examples; (iv) a vendor's internal complaint process including penalty; (v) the legal recourse, investigative and complaint process available through the Department of Human Rights Commission; (vi) directions on how to contact the Department and Commission; and (vii) protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act.

Firm Name Geneseo Communications

Address 111 E. 1st. Street
Geneseo, IL 61254

Signature of Officer [signature]

Title GM/COO

Subscribed and sworn to before me

this 20 day of April, 2016

Notary Public Brenda K Crider

M97 Certificate of Compliance

OFFICIAL SEAL
BRENDA K CRIDER
Notary Public - State of Illinois
My Commission Expires May 20, 2017

SCHEDULE 3C
No Transfer of Interest

Instructions. Execute, sign and date were indicated.

SCHEDULE 3D
Ethics

BIDDING AND CONTRACT REQUIREMENTS
Vendor Eligibility Certification

Public Act 85-1295 (Illinois Revised Status, 1987, Ch. 38, art 33E) requires that all contractors bidding for public agencies in the State of Illinois certify that they are not barred from bidding on public contracts for bid-rigging or bid rotation.

The following certification must be signed and submitted with bidder's bid proposal. *FAILURE TO DO SO WILL RESULT IN DISQUALIFICATION OF THE BIDDER.*

Geneseo Communications , As part of its bid on contract for
(Name of Contractor)

RiverCityNet .
(Name of Bid Package)

District No. 40, hereby certifies that said contractor is not barred from bidding on the aforementioned contract as a result of a violation of either Section 33E-3 or 33E-4 of Article 33E of Chapter 38 of the Illinois Revised Statutes.

Firm Name: Geneseo Communications

By: [signature]
(Signature required by Authorized Agent of Contractor)

Title: GM/COO

Subscribed and sworn to before me this 19 day of April 2016

Notary Public: Brenda K Crider

Verified by:
Date verified:

OFFICIAL SEAL
BRENDA K CRIDER
Notary Public - State of Illinois
My Commission Expires May 20, 2017

SCHEDULE 3F
Drug-free Workplace

CERTIFICATIONS OF COMPLIANCE WITH ILLINOIS DRUG FREE WORKPLACE ACT

The undersigned, having 25 or more employees, does hereby certify pursuant to section 3 of the Illinois Drug-Free Workplace Act (30 ILCS 580/3) that it shall provide a drug-free workplace for all employees engaged in the performance of work under the contract by complying with the requirements of the Illinois Drug-Free Workplace Act and, further certifies, that it is not ineligible for award of this contract by reason of debarment for violation of the Illinois Drug-Free Workplace Act.

Name of bidder (Please Print)
MATT STORM

Submitted by (Signature)

Title GM/COO

SCHEDULE 3G
Non-collusion

BIDDING AND CONTRACT REQUIREMENTS
Non-Collusion Affidavit

AFFIDAVIT: "I, (we) hereby certify and affirm that my (our) proposal was prepared independently for this bid package and that it contains no fees or amounts other than for the legitimate execution of this work as specified and that it includes no understanding or agreements in restraint of trade. I further certify that I (we) am not barred from bidding on the contract as a result of a conviction for either bid-rigging or bid rotating under Article 33E of the Criminal Code of 1961."

The following certification must be signed and submitted with bidder's proposal. ***FAILURE TO DO SO WILL RESULT IN DISQUALIFICATION OF THE BIDDER.***

(If an Individual)
Signature of Proposer ____________________________
(Seal)

Business Address

(If a Partnership)
Firm Name
(Seal)
By ____________________________
(Signature required)

Business Address

of all Partners

of the Firm

(If a Corporation)
Corporate Name Geneseo Communications

By [signature]
(Signature required)

Business Address 111 E. 1st. Street
Geneseo, IL. 61254

(CORPORATE SEAL)
Names of Officers: (President)

(Secretary)

(Treasurer)

Attest: (Secretary)

SCHEDULE 3H
Federal Tax Identification and Legal Status Disclosure Information

Under penalties of perjury, I certify that 36-3991407 is my correct Federal Taxpayer Identification Number. I am doing business as a (please check one):

______Individual

______Sole Proprietorship

______Partnership

X Corporation

______Governmental Entity

______Not-for-profit Corporation

Signature: [signature] Date: 4-19-16

Name of Vendor: Geneseo Communications Inc.

Doing Business As (if applicable): Geneseo Communications, Inc.

Address: 111 E. 1st. Street

City/State/Zip: Geneseo, IL. 61254

Telephone: 309-944-2103

Return this certification to:

Nathan Scott
IT Manager
619 16th Street
Moline, Illinois, 61265

SCHEDULE 3I
Debarment

Certification Regarding Debarment

Instructions for Certification

1. By signing and submitting this Certification, the prospective lower tier participant is providing the certifications set out herein.
2. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal government, the department or agency with which this transaction originated may pursue all available remedies, including suspension and/or debarment.
3. Except for transactions authorized under paragraph 3 above, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal government, the department or agency with which this transaction originated may pursue all available remedies, including suspension and/or debarment.
4. The terms covered transaction, debarred, suspended, ineligible, lower tier covered transaction, participant, person, primary covered transaction, principal, proposal, and voluntarily excluded, as used herein, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549 and Executive Order 12689. You may contact the person to which this Certification is submitted for assistance in obtaining a copy of those regulations.
5. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier Covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the "GSA Excluded Parties List System" at http://epls.arnet.gov/.
6. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required herein. The knowledge and information of a participant is not required to exceed thatwhich is normally possessed by a prudent person in the ordinary course of business dealings.

Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion
Lower Tier Covered Transactions

This certification is required by the regulations implementing Executive Orders 12549 and 12689, Debarment and Suspension, 7 CFR 3017 Subpart C Responsibilities of Participants Regarding Transactions. The regulations were published as Part IV of the January 30, 1989 Federal Register (pages 4722-4733) and Part II of the November 26, 2003 Federal Register (pages 66533-66646). Copies of the regulations may be obtained by contacting the Illinois State Board of Education.

BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS BELOW.

CERTIFICATION

The prospective lower tier participant certifies, by submission of this Certification, that:

(1) Neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency;

(2) It will provide immediate written notice to whom this Certification is submitted if at any time the prospective lower tier participant learns its certification was erroneous when submitted or has become erroneous by reason of changed circumstances;

(3) It shall not knowingly enter any lower tier covered transaction with a person who is debarred, suspended,

declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated;

(4) It will include the clause titled Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion—Lower Tier Covered Transactions, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions;

(5) The certifications herein are a material representation of fact upon which reliance was placed when this transaction was entered into; and

(6) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this Certification.

Organization Name Geneseo Communications

Name and Title of Authorized Representative Matt [signature] GM/COO

Signature Date 4-19-16

SCHEDULE 3J
Notification of Lobbying Activity

NOTICE TO APPLICANTS - CERTIFICATION/DISCLOSURE REQUIREMENTS RELATED TO LOBBYING

Section 319 of Public Law 101-121 (31 U.S.C.), signed into law on October 23, 1989, imposes new prohibitions and requirements for disclosure and certification related to lobbying on recipients of Federal contracts, grants, cooperative agreements, and loans. Certain provisions of the law also apply to Federal commitments for loan guarantees and insurance; however, it provides exemptions for Indian tribes and tribal organizations.

Effective December 23, 1989, current and prospective recipients (and their subtier contractors and/or subgrantees) will be prohibited from using Federal funds, other than profits from a Federal contract, for lobbying Congress or any Federal agency in connection with the award of a particular contract, grant, cooperative agreement or loan. In addition, for each award action in excess of $100,000 (or $150,000 for loans) on or after December 23, 1989, the law requires recipients and their subtier contractors and/or subgrantees to: (1) certify that they have neither used nor will use any appropriated funds for payment to lobbyists; (2) disclose the name, address, payment details, and purpose of any agreements with lobbyists whom recipients or their subtier contractors or subgrantees will pay with profits or nonappropriated funds on or after December 23, 1989; and (3) file quarterly updates about the use of lobbyists if materials changes occur in their use. The law establishes civil penalties for noncompliance.

If you are a current recipient of funding or have an application, proposal, or bid pending as of December 23, 1989, the law will have the following immediate consequences for you:

- You are prohibited from using appropriated funds (other than profits from Federal contracts) on or after December 23, 1989, for lobbying Congress or any Federal agency in connection with a particular contract, grant, cooperative agreement, or loan;

- you are required to execute the attached certification at the time of submission of an application or before any action in excess of $100,000 is awarded; and

- you will be required to complete the lobbying disclosure form if the disclosure requirements apply to you.

Regulations implementing Section 319 of Public Law 101-121 have been published as an Interim Final Rule by the Office of Management and Budget as Part III of the February 26, 1990, **Federal Register** (pages 6736-6746).

(Continued on next page.)

CERTIFICATION REGARDING LOBBYING - CONTRACTS, GRANTS, LOANS AND COOPERATIVE AGREEMENTS

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan or cooperative agreement;

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions;

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Geneseo Communications — RiverCity Net
Organization Name — Award Number or Project Name

Matt Storm GM/COO
Name and Title of Authorized Representative

[signature] — 4-19-16
Signature — Date

SCHEDULE 3K
Certificate of Insurance

Instructions: Attach Vendor ACORD certificate in substantially the same form including levels of insurance and coverage equal to or greater than that shown below. Be certain to name District as an "additional insured."

ACORD CERTIFICATE OF LIABILITY INSURANCE	DATE (MM/DD/YY) 05/08/02
PRODUCER INSURANCE AGENT'S NAME AND ADDRESS	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.
	INSURERS AFFORDING COVERAGE
INSURED INSURED'S NAME AND ADDRESS	INSURER A: INSURANCE COMPANY NAME INSURER B: INSURANCE COMPANY NAME INSURER C: INSURANCE COMPANY NAME INSURER D: INSURANCE COMPANY NAME

COVERAGES

THE POLICES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INS LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXP DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY ☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS MADE ☒ OCCUR ☐ ☐ GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PROJECT ☐ LOC	Policy#	EFF. DATE	EXP. DATE	EACH OCCURRENCE	$ 1,000,000
					FIRE DAMAGE (any 1 fire)	$ 50,000
					MED EXP (any 1 person)	$ 5,000
					PERSONAL & ADV INJURY	$ 1,000,000
					GENERAL AGGREGATE	$ 1,000,000
					PRODUCTS – COMP/OP AGG	$ 1,000,000
A	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ☒ NON-OWNED AUTOS ☐ ☐	Policy#	EFF. DATE	EXP. DATE	COMBINED SINGLE LIMIT (Ea Accident)	$ 1,000,000
					BODILY INJURY (Per person)	$
					BODILY INJURY (Per accident)	$
					PROPERTY DAMAGE (Per accident)	$
	GARAGE LIABILITY ☐ ANY AUTO ☐				AUTO ONLY – EA ACCIDENT	$
					OTHER THAN AUTO ONLY: EA ACC	$
					AGG	$
A	EXCESS LIABILITY ☒ OCCUR ☐ CLAIMS MADE ☐ DEDUCTIBLE ☒ RETENTION $10,000	Policy#	EFF. DATE	EXP. DATE	EACH OCCURRENCE	$ 5,000,000
					AGGREGATE	$ 5,000,000
						$
						$
						$
B	WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY	Policy#	EFF. DATE	EXP. DATE	☒ WC Statutory Limits ☐ Other	
					E.L. EACH ACCIDENT	$ 100,000
					E.L. DISEASE – EA EMPLOYEE	$ 100,000
					E.L. DISEASE – POLICY LIMIT	$ 500,000
	OTHER					

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS

Certificate Holder named as Additional Insured, as their interest may appear.

CERTIFICATE HOLDER ☐ ADDITIONAL INSURED; INSURER LETTER:	CANCELLATION
City of Moline Nathan Scott, IT Manager 619 16th Street, Moline, Illinois, 61265	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT. AUTHORIZED REPRESENTATIVE

ACORD 25-S (7/97) 1 OF 2 #24212 liv © ACORD CORPORATION 1988

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 4/1/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Hanford Insurance Agency, Inc.
119 S. State St
Geneseo IL 61254-1347

CONTACT NAME: Linda Shipman
PHONE (A/C, No, Ext): (309) 944-5151 FAX (A/C, No): (309) 944-8450
E-MAIL ADDRESS: lindas@hanford-ins.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : The Travelers Indemnity Co of CT	25682
INSURER B : Travelers Prop Cas Co of America	
INSURER C : Farmington Casualty Co.	41483
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Geneseo Communications Inc.
111 E First ST
Geneseo IL 61254-2123

COVERAGES CERTIFICATE NUMBER: CL157204553 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY; CLAIMS-MADE; X OCCUR; GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY; PRO-JECT; LOC; OTHER:	X	Y	630-6E755471	7/1/2015	7/1/2016	EACH OCCURRENCE	$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
							MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 1,000,000
							GENERAL AGGREGATE	$ 2,000,000
							PRODUCTS - COMP/OP AGG	$ 2,000,000
							Employee Benefits Liab. Retro	$ 1,000,000
B	AUTOMOBILE LIABILITY; X ANY AUTO; ALL OWNED AUTOS; SCHEDULED AUTOS; HIRED AUTOS; NON-OWNED AUTOS			BA-6E729791	7/1/2015	7/1/2016	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
							BODILY INJURY (Per person)	$
							BODILY INJURY (Per accident)	$
							PROPERTY DAMAGE (Per accident)	$
							Underinsured motorist BI	$ 1,000,000
A	X UMBRELLA LIAB; X OCCUR; EXCESS LIAB; CLAIMS-MADE; DED; RETENTION $			630-6E755471	7/1/2015	7/1/2016	EACH OCCURRENCE	$ 5,000,000
							AGGREGATE	$ 5,000,000
								$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N; ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH); If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		UB-6E731909	7/1/2015	7/1/2016	X PER STATUTE; OTH-ER	
							E.L. EACH ACCIDENT	$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
City of Moline, as your interest may appear, is included as Additional Insured on the General Liabiltiy coverage part for the Insured's ongoing operations as required by written contract or agreement with you.

CERTIFICATE HOLDER

City of Moline
Nathan Scott, IT Manager
619 16th ST
Moline, IL 61265

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Brad Toone/LMS

SCHEDULE 3M-1

SCHEDULE 3M-2

SCHEDULE 3M-3

SCHEDULE 4 (2nd Revised)
Pricing

(INSTRUCTIONS: REPLACE CORRESPONDING PAGE FROM ORIGINAL RFP DOCUMENT WITH THIS)

2.2.1 Dark WAN Service (between City Facilities)

Label and append hereto breakdown of all Non-recurring and Monthly-recurring costs.

Base Bid Total Non-recurring costs (NRC) $ 295,000.00

Base Bid Monthly-recurring costs* (MRC) $ **$750.00/ month;**
$180,000.00 / total term (240 months)

FROM THE BASE BID PRICING, THE FOLLOWING ALTERNATE ADD-ONS / DEDUCTS…

Alternate Add-on NRC for QCIC - Segments/locations "AC-AB-AD" $ 30,000.00

Alternate Add-on MRC for QCIC - Segments AC-AB-AD/location(s) $100.00/ month; $24,000.00/ total term (240 months.

Alternate Deduct(s) from Base Bid NRC for use of City-owned man-holes/hand-holds in bringing the fiber in-to/out-from each of the following locations:

LOCATION	DEDUCT	LOCATION	DEDUCT	LOCATION	DEDUCT
"A" (Fire, 2)	$0	"B" (Police, 2)	$0	"C" (City Hall, 2)	$0
"D" (Centre – via QCIC fiber, 1)	$0	"F" and "G" (WPC North, 1 each)	$0	"AJ" (Public Works, 2)	$0
"AN" and "AO" (Water Plant and Distribution, 1 each)		$0			

Alternate Deduct(s) from Base Bid MRC for use of City-owned man-holes/hand-holds in bringing the fiber in-to/out-from each of the following locations:

LOCATION	DEDUCT	LOCATION	DEDUCT	LOCATION	DEDUCT
"A" (Fire, 2)	$0	"B" (Police, 2)	$0	"C" (City Hall, 2)	$0
"D" (Centre – via QCIC fiber, 1)	$0	"F" and "G" (WPC North, 1 each)	$0	"AJ" (Public Works, 2)	$0
"AN" and "AO" (Water Plant and Distribution, 1 each)		$0			

Alternate Deduct NRC for ELIMINATING Splice Boxes at Segment Points/locations "H, I, P, Q, R, U, V, AG, AI and AM" $ 0

Alternate Deduct MRC for ELIMINATING Splice Boxes at Segment Points/locations "H, I, P, Q, R, U, V, AG, AI and AM"$0 / month;$0 / total term (240 months)

Alternate Deduct NRC for ELIMINATING Segments N-R and R-S including intervening points O, P and Q $ 0

Alternate Deduct MRC for ELIMINATING Segments N-R and R-S including intervening points O, P and Q $ 0 / month; $ 0 / total term (240 months)

Alternate Deduct NRC for USING EXISTING CITY OWNED CONDUIT CROSSING ROCK RIVER TO REACH Segments N-R and R-S including intervening points O, P and Q $ 0

Alternate Deduct MRC for USING EXISTING CITY OWNED CONDUIT CROSSING ROCK RIVER TO REACH Segments N-R and R-S including intervening points O, P and Q $ 0 / month; $ 0 / total term (240 months)

2.2.2 Managed Internet Access Service (to ISP Point-of-presence)

Label and append hereto breakdown of all Non-recurring costs.

Base Bid Total Non-recurring costs $ 5,000.00

Base Bid Monthly-recurring costs*
$1,495/ month;
$179,400/ total term (120 months)

2.2.3 Optional Alternative Internet Access Service (to ISP Point-of-presence)

Label and append hereto breakdown of all Non-recurring costs.

Base Bid Total Non-recurring costs $ 5,000.00

Base Bid Monthly-recurring costs*
$1,395.00/month;
$167,400.00/total term (120 months)

*Monthly recurring costs – at a minimum – to include, unless otherwise specified or excepted, all costs to City for IRU, service level commitment and any and all other costs known and unknown to Vendor.

SCHEDULE 5

[THIS SECTION HAS BEEN LEFT BLANK]

SCHEDULE 6
References

Instructions. Append hereto a listing of at least three (3) references with whom the Vendor has provided similar services to those being solicited with this RFP including for each the name of company, address, contact person, phone number and email address of the person most familiar with the Vendor's performance.

Ryan White- Black Hawk College
whitery@bhc.edu
309-796-5194

Brian Nelson- Rock Island County 911
briann@ricoetsb.org
563-508-1332

Marlene Dyer- City of East Moline
mdyer@eastmoline.com
309-751-2332

Mike Perva- Kewanee Schools
mperva@kcud229.org
309-525-0894

Receipt of RFP and Intent to Submit a Proposal

The undersigned does hereby acknowledge receipt of the RFP on the date below, and does hereby indicate intent to submit a proposal.

I acknowledge that I understand the due date for City's receipt of questions is 1:00 p.m., January 22, 2016, and must be delivered in writing. I understand that it is my responsibility to confirm City's receipt of any question or proposal.

I acknowledge that my response is due in a sealed envelope containing all required parts at or before 1:00 p.m., April 22, 2016 at the Office of Information Technology, City of Moline, 619 16th Street, Moline, Illinois 61265.

Preparer's Name: Kevin Stuart Kevin Stuart

Phone: 309-944-8024

E-mail: kevin.stuart@geneseo.com

and,

Authorized Representative Name: Matt Storm

Authorized Representative Signature: ____________________

Phone: 309-944-8012

E-mail: matt.storm@geneseo.com

Vendor Corporate Address: 111 E. 1st. Street
Geneseo, IL. 61254

Date: 4/20/2016

Lauterbach & Amen, LLP
27W457 Warrenville Road
Warrenville, IL 60555-3902

Actuarial Valuation
as of January 1, 2016

MOLINE FIREFIGHTERS' PENSION FUND

GASB 67/68 Reporting

LAUTERBACH & AMEN, LLP

Actuarial GASB Disclosures Statements 67 and 68

Lauterbach & Amen, LLP

CERTIFIED PUBLIC ACCOUNTANTS

GASB 67: MOLINE FIREFIGHTERS' PENSION FUND

Fiscal Year Ending: December 31, 2015
Actuarial Valuation Date: January 1, 2016
Measurement Date: **December 31, 2015**

GASB 68: CITY OF MOLINE, ILLINOIS

Fiscal Year Ending: December 31, 2015
Actuarial Valuation Date: January 1, 2016
Measurement Date: **December 31, 2015**

Submitted by:

Lauterbach & Amen, LLP
630.393.1483 Phone
www.lauterbachamen.com

Contact:

Todd A. Schroeder
April 3, 2016

LAUTERBACH & AMEN, LLP

TABLE OF CONTENTS

TABLE OF CONTENTS

Lauterbach & Amen, LLP
CERTIFIED PUBLIC ACCOUNTANTS
27W457 WARRENVILLE RD. • WARRENVILLE, ILLINOIS 60555
PHONE 630.393.1483 • FAX 630.393.2516
www.lauterbachamen.com

ACTUARIAL CERTIFICATION

This certification provides supplemental information as required by the Governmental Accounting Standards Board. The enclosed schedules were prepared by the undersigned to provide general information to assist in the preparation of the Annual Financial Report. The assumptions and methods used in the preparation of this disclosure meet the parameters set for the disclosures presented in the financial section as required by the Governmental Accounting Standards Board. Additional information is also provided solely to assist the auditors in preparation of the required footnote disclosures.

The results in this report are based on information and data submitted by the Moline Firefighters' Pension Fund. We did not prepare the actuarial valuations for the years prior to January 1, 2015. Those Valuations were prepared by other actuaries whose reports have been furnished to us, and our disclosures are based upon those reports. An audit of the information was not performed, but high-level reviews were performed for general reasonableness as appropriate based on the purpose of the valuation. The accuracy of the results is dependent upon the accuracy and completeness of the underlying information. The results of the actuarial valuation and these supplemental disclosures rely on the information provided.

The valuation results summarized involve actuarial calculations that require assumptions about future events. The Moline Firefighters' Pension Fund selected certain assumptions, while others were the result of guidance and/or judgment. We believe that the assumptions used in the valuation are reasonable and appropriate for the purposes for which they have been used.

To the best of our knowledge, all calculations are in accordance with the applicable funding requirements, and the procedures followed and presentation of results conform to generally accepted actuarial principles and practices. The undersigned consultant of Lauterbach & Amen, LLP with actuarial credentials meets the Qualification Standards of the American Academy of Actuaries to render this Actuarial Certification. There is no relationship between the Moline Firefighters' Pension Fund and Lauterbach & Amen, LLP that impairs our objectivity.

Respectfully Submitted,

LAUTERBACH & AMEN, LLP

Todd A. Schroeder

Todd A. Schroeder, EA

PENSION FUND NET POSITION

Statement of Net Position
Statement of Changes in Net Position

STATEMENT OF FIDUCIARY NET POSITION

	2015	2014
Assets		
Cash and Cash Equivalents	$ 1,152,097	$ 886,280
Total cash	1,152,097	886,280
Receivables:		
Investment Income - Accrued Interest	74,854	-
Other	1,471	-
Total Receivables	76,325	-
Investments:		
Fixed Income	9,151,060	8,920,629
Mutual Funds	16,063,036	17,621,714
Total Investments	25,214,096	26,542,343
Total Assets	26,442,519	27,428,623
Liabilities		
Payables:		
Expenses Due/Unpaid	11,258	-
Total Liabilities	11,258	-
Net Position Restricted for Pensions	$ 26,431,261	$ 27,428,623

The Fiduciary Net Position of the Fund shown above is intended to be in accordance with GAAP and Government Accounting Standards Board rules. The Fair Market Value of Investments has been provided by the reporting entity, and the results are being audited by an independent auditor. The level of the assets has been reviewed for reasonableness, but we make no representation as to the accuracy of the measurement of the fair market value of the investments. The assets for 2015 are based on audited financial statements.

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION

	2015
Additions	
Contributions	
Employer	$ 3,482,362
Member	473,457
Total Contributions	3,955,819
Investment Income	
Net Appreciation in Fair Value of Investments	(921,230)
Interest and Dividends	1,128,767
Less Investment Expense	(64,382)
Net Investment Income	143,156
Total Additions	4,098,974
Deductions	
Benefit payments and Refunds of Member Contributions	5,010,139
Administrative Expense	86,198
Total Deductions	5,096,337
Net Increase in Net Position	(997,362)
Net Position Restricted for Pensions	
Beginning of Year	27,428,623
End of Year	$ 26,431,261

The Changes in Fiduciary Net Position of the Fund shown above is intended to be in accordance with GAAP and Government Accounting Standards Board rules. The changes have been provided by the reporting entity, and the results are being audited by an independent auditor. The changes have been reviewed for reasonableness, but we make no representation as to the accuracy of the measurement of the fair market value of the investments. The assets for 2015 are based on audited financial statements.

ACTUARIAL PENSION LIABILITY INFORMATION

Statement of Total Pension Liability
Statement of Changes in Total Pension Liability
Statement of Changes in Net Pension Liability
Deferred Outflows and Inflows of Resources

STATEMENT OF TOTAL PENSION LIABILITY

	2015	2014
Active Employees	$ 27,353,377	28,785,279
Inactive Employees		
Terminated Employees - Vested	-	-
Retired Employees	55,821,793	44,876,810
Disabled Employees	9,728,643	7,032,693
Other Beneficiaries	5,571,979	3,491,961
Total Inactive Employees	71,122,415	55,401,464
Total Pension Liability	$ 98,475,792	$ 84,186,743

The Total Pension Liability (TPL) shown is dependent on several factors such as plan provisions and actuarial assumptions used in the report. In addition, the calculation of the TPL may be dependent on the Fiduciary Net Position shown on the prior page. Changes in the Fiduciary Net Position due to any factor including adjustment on final audit could change the TPL. The dependence of the TPL on the Net Position is due to the role of the Net Position (and projected Net Position) on the determination of the discount rate used for the TPL.

The TPL has been determined for GASB 67/68 reporting purposes only. The resulting TPL is intended to be used in the financial statement reporting of the fund and/or the Employer. The resulting liability is not intended to be a representation of the fund liability for other purposes, including but not limited to determination of cash funding requirements and recommendations. The TPL is based on data as of the Data Date shown in this report. The TPL has been determined as of the Actuarial Valuation Date and based on the assumptions shown in this report, and adjusted to the Measurement Date as needed.

STATEMENT OF CHANGES IN TOTAL PENSION LIABILITY

		2015
Changes in Total Pension Liability		
Service Cost	$	1,223,912
Interest		4,868,228
Changes of Benefit Terms		-
Differences Between Expected and Actual Experience		(683,158)
Changes in Assumptions		13,890,206
Benefit Payments and Refunds		(5,010,139)
Net Change in Total Pension Liability	$	14,289,049
Total Pension Liability - Beginning		84,186,743
Total Pension Liability - Ending (a)	$	98,475,792
Plan Fiduciary Net Position - Ending (b)	$	26,431,261
Employer's Net Pension Liability - Ending (a) - (b)	$	72,044,531
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability		27%
Covered-Employee Payroll	$	5,287,016
Employer's Net Pension Liability as a Percentage of Employee Payroll		1363%

The plan Fiduciary Net Position was detailed in the prior section of this report. The employer's Net Pension Liability is the excess of the Total Pension Liability over the plan Fiduciary Net Position.

Total Pension Liability may be dependent on the Net Position of the fund. Changes in the Net Position could change the determination of the Total Pension Liability. Any changes in Net Position including adjustments on final audit can have an impact on Net Pension Liability that extends beyond the dollar-for-dollar change in Net Position.

Covered employee payroll is based on total W-2 pay for the fund members during the fiscal year.

Statement of Changes in Net Pension Liability

The table below illustrates the change in the Net Pension Liability (NPL) from the prior Measurement Date to the current Measurement Date. Under Statement 68, the difference between the NPL from the prior measurement date to the current measurement date should be recognized as an expense, unless permitted to be recognized as a deferred outflow or inflow of resources.

	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances Beginning at 01/01/15	84,186,743	27,428,623	56,758,120
Changes for the year:			
Service Cost	1,223,912	-	1,223,912
Interest	4,868,228	-	4,868,228
Actuarial Experience	(683,158)	-	(683,158)
Assumptions Changes	13,890,206	-	13,890,206
Plan Changes	-	-	-
Contributions - Employer	-	3,482,362	(3,482,362)
Contributions - Employee	-	473,457	(473,457)
Contributions - Other	-	-	-
Net Investment Income	-	143,156	(143,156)
Benefit payments, including refunds	(5,010,139)	(5,010,139)	-
Administrative Expense	-	(86,198)	86,198
Net Changes	14,289,049	(997,362)	15,286,411
Balances Beginning at 12/31/15	$ 98,475,792	$ 26,431,261	$ 72,044,531

The changes in total pension liability above are described on the prior page. The plan fiduciary net position was detailed in the prior section of this report. The employer's Net Pension Liability is the excess of the Total Pension Liability over the plan fiduciary net position.

DEFERRED OUTFLOWS AND INFLOWS OF RESOURCES

The table below shows the cumulative amounts to be shown as deferred outflows and inflows of resources. Changes in total pension liability related to the difference in actual and expected experience, or changes in assumptions regarding future events, are recognized in pension expense over the expected remaining service life of all employees (active and retired) in the pension fund. Differences in projected and actual earnings over the measurement period are recognized over a 5 year period. Amounts not yet recognized are summarized below:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences Between Expected and Actual Experience	$ -	$ 544,021
Changes of Assumptions	11,061,243	-
Net Difference Between Projected and Actual Earnings on Pension Plan Investments	1,353,869	-
Contributions Subsequent to the Measurement Date*	-	-
Total	$ 12,415,112	$ 544,021

* Contributions subsequent to the measurement date may be recognized as a reduction to the NPL. The amount is not known as of the date of this report. Subsequent to the measurement date, the following amounts will be recognized in pension expense in the upcoming years:

Year ended December, 31:	
2016	$ 3,028,294
2017	3,028,294
2018	3,028,294
2019	2,786,209
2020	-
Thereafter	-

DEFERRED OUTFLOWS AND INFLOWS OF RESOURCES - DETAILS

The table below shows the annual detail amounts that have been summarized on the prior page. Under Statement 68, the level of detail shown on the prior page is sufficient for financial statement reporting. The detail shown below is primarily for tracking purposes.

Pension Expense Source	Date Established	Initial Period	Initial Balance	Remaining Period	12/31/2015 Expense Recognized	12/31/2015 Deferred Balance
Asset (Gain)/Loss	12/31/2015	5.00	1,692,337	5.00	338,468	1,353,869
Change in Assumptions (Gain)/Loss	12/31/2015	4.91	13,890,206	4.91	2,828,963	11,061,243
Actuarial (Gain)/Loss	12/31/2015	4.91	(683,158)	4.91	(139,137)	(544,021)
Total			14,899,385		3,028,294	11,871,091

Each detail item in the chart above was established as of the Fiscal Year End shown and the full amount deferred has been determined as of that time. Any events that occur is subsequent fiscal years do not have an impact on the prior fiscal year. The bases are established independently each year.

PENSION EXPENSE DEVELOPMENT

The table below displays the pension expense development for the current year. The pension expense includes items that change the Net Pension Liability from one year to the next, netted out for amounts that are deferred under GASB pronouncement, plus any amounts that are being recognized that were deferred previously.

See below for development of the pension expense:

	2015
Pension Expense/(Income) Under GASB 68	
Service Cost	$ 1,223,912
Interest	4,868,228
Plan Changes	-
Contributions - Employee	(473,457)
Contributions - Other	-
Expected Investment Income	(1,835,493)
Administrative Expense	86,198
Other Changes	(0)
Intial Pension Expense/(Income)	$ 3,869,388
Recognition of Outflow/(Inflow) of Resources due to Liabilities	2,689,826
Recognition of Outflow/(Inflow) of Resources due to Assets	338,468
Total Pension Expense/(Income)	**$ 6,897,682**

ACTUARIAL ASSUMPTION INFORMATION

Statement of Significant Actuarial Assumptions
Notes on Actuarial Assumptions
Development of the Discount Rate
Sensitivity of the Discount Rate

STATEMENT OF SIGNIFICANT ACTUARIAL ASSUMPTIONS

Actuarial Assumptions (Economic)

Discount Rate used for the Total Pension Liability	5.96%
Long-Term Expected Rate of Return on Plan Assets	7.00%
High Quality 20 Year Tax-Exempt G.O. Bond Rate	3.57%
Projected Individual Salary Increases	3.00% - 27.87%
Projected Increase in Total Payroll	3.50%
Consumer Price Index (Utilities)	2.00%
Inflation Rate Included	2.00%

Actuarial Assumptions (Demographic)

Mortality Table	L&A 2016 Illinois Firefighters Mortality Rates
Retirement Rates	L&A 2016 Illinois Firefighters Retirement Rates Capped at age 65
Disability Rates	L&A 2016 Illinois Firefighters Disability Rates
Termination Rates	L&A 2016 Illinois Firefighters Termination Rates
Percent Married	80.0%

All rates shown in the economic assumptions are assumed to be annual rates, compounded on an annual basis. For more information on the selection of the actuarial assumptions, please see the assumption document prepared for the Fund.

ASSUMPTION CHANGES

The Assumptions were changed from the prior year.

The assumed rate on High Quality 20 Year Tax-Exempt G.O. Bonds was changed from 3.56% to 3.57% for the current year. The underlying index used is The Bond Buyer 20-Bond GO Index as discussed in more detail later in this section. The choice of index is unchanged from the prior year. The rate has been updated to the current fiscal year end based on changes in market conditions as reflected in the Index. The change was made to reflect our understanding of the requirements of GASB under Statement 67 and Statement 68.

The discount rate used in the determination of the Total Pension Liability was changed from 6.62% to 5.96%. The discount rate is impacted by a couple of metrics. Any change in the underlying High Quality 20 Year Tax Exempt G.O. Bond Rate will impact the blended discount rate.

In addition, changes made that impact the projection of the Net Position of the fund. For example, changes in the formal or informal funding policy can impact the discount rate. Actual changes in the net position from one year to the next can impact the projections as well.

The demographic assumptions were changed to the tables shown on the prior page. The changes were made based on a study of Firefighters and fire pension funds in Illinois. The changes are described in the assumption document for the pension fund. The changes were made to better reflect the future anticipated experience of the fund. The assumptions impacted include:

- Mortality Rates
- Mortality Improvement Rates
- Retirement Rates
- Disability Rates
- Termination Rates

NOTES ON ACTUARIAL ASSUMPTIONS

Individual Pay Increases

Individual pay increases include provisions for annual cost of living increases, plus any additional increases in pensionable pay provided (step increases, longevity increases, promotions, educations, etc). Sample rates are as follows:

Service	Rate	Service	Rate
0	27.87%	8	5.00%
1	5.00%	9	5.00%
2	5.00%	10	5.00%
3	5.00%	15	5.00%
4	5.00%	20	3.00%
5	5.00%	25	3.00%
6	5.00%	30	3.00%
7	5.00%		

Demographic Assumptions

Mortality rates are based on the assumption study prepared by Lauterbach & Amen, LLP in 2016. The table combines observed experience of Illinois Firefighter's with the RP-2014 mortality table for blue collar workers. Mortality improvements have been to the valuation date.

Other demographic assumption rates are based on a review of assumptions in the L&A 2016 study for Illinois Firefighters.

POSTEMPLOYMENT BENEFIT CHANGES

Eligibility for postemployment benefit increases is determined based on the Illinois Pension code. Tier 1 Firefighter retirees are provided with an annual 3.0% increase in retirement benefits by statute when eligible. Tier 2 Firefighter retirees are provided postemployment benefit increases based on one-half of the Consumer Price Index (Utilities) for the prior September.

The CPI-U for September, 1985 was 108.3. The CPI-U for September, 2015 was 237.9. The average increase in the CPI-U for September, 1985 through September, 2015 was 2.66% (on a compounded basis).

EXPECTED RETURN ON PENSION PLAN INVESTMENTS

The long-term expected rate of return on assets is intended to represent the best estimate of future real rates of return and is shown for each of the major asset classes in the investment policy. The expected rates of return on assets shown here is from the investment professional that works with the pension fund. The best estimate of future real rates of return are developed for each of the major asset classes. Expected inflation is added back in. Adjustment is made to reflect geometric returns.

A summary of the best estimate of future real rates of returns (annual arithmetic average) are included in the table below.

Asset Class	Long-Term Expected Rate of Return	Long-Term Inflation Expectations	Long-Term Expected Real Rate of Return
Government Fixed Income	4.07%	2.09%	1.98%
Domestic	5.39%	2.09%	3.30%
International	1.51%	2.09%	-0.58%
Cash	1.45%	2.09%	-0.64%

Long-term expected real returns under GASB are expected to reflect the period of time that begins when a plan member begins to provide service to the employer and ends at the point when all benefits to the plan member have been paid. The rates provided above are intended to estimate those figures.

The expected inflation rate is 2.09% and is included in the total long-term rate of return on investments. The inflation rate is from the same source as the long-term real rates of return, and is not necessarily reflective of the inflation measures used for other purposes in the report.

Geometric rates of return are equal to arithmetic rates of return when the annual returns exhibit no volatility over time. When arithmetic returns are volatile on a year-to-year basis, the actual realized geometric returns over time will be lower. The higher the volatility, the greater the difference.

MUNICIPAL BOND RATE

The municipal bond rate assumption is based on The Bond Buyer 20-Bond GO Index. The rate shown earlier in the Actuarial Assumption section is the December 30, 2015 rate. The 20-Bond GO Index is based on an average of certain general obligation municipal bonds maturing in 20 years and having an average rating equivalent of Moody's Aa2 and Standard & Poor's AA.

The 20-Bond Index consists of 20 general obligation bonds that mature in 20 years. The average rating of the 20 bonds is roughly equivalent to Moody's Investors Service's Aa2 rating and Standard & Poor's Corp.'s AA.

The indexes represent theoretical yields rather than actual price or yield quotations. Municipal bond traders are asked to estimate what a current-coupon bond for each issuer in the indexes would yield if the bond was sold at par value. The indexes are simple averages of the average estimated yields of the bonds.

DISCOUNT RATE

The discount rate used in the determination of the Total Pension Liability is based on a combination of the expected long-term rate of return on plan investments and the municipal bond rate.

Cash flow projections were used to determine the extent which the plan’s future net position will be able to cover future benefit payments. To the extent future benefit payments are covered by the plan’s projected net position, the expected rate of return on plan investments is used to determine the portion of the net pension liability associated with those payments. To the extent future benefit payments are not covered by the plan’s projected net position, the municipal bond rate is used to determine the portion of the net pension liability associated with those payments.

Projected benefit payments are determined during the actuarial process based on the assumptions. More details on the assumptions are in the prior section. The expected contributions are based on the funding policy of the plan. The funding policy is discussed in more detail in a later section.

SENSITIVITY OF THE DISCOUNT RATE

The Net Pension Liability has been determined using the discount rate listed in the assumption section. Below is a table illustrating the sensitivity of the Net Pension Liability to the discount rate assumption.

	1% Decrease (4.96%)	Current Discount Rate (5.96%)	1% Increase (6.96%)
Employer Net Pension Liability	$85,278,814	$72,044,531	$61,142,612

The sensitivity of the Net Pension Liability to the discount rate is based primarily on two factors:

1. The duration of the plan's expected benefit payments. Younger plans with benefit payments further in the future will be more sensitive to changes in the discount rate.

2. The funded percentage of the plan (ratio of the net position to the total pension liability). The higher the funded percentage, the higher the sensitivity to the discount rate.

PARTICIPANT DATA

Participant Demographic Data
Expected Future Working Lifetime

PARTICIPANT DEMOGRAPHIC DATA

The chart below summarizes the employee count and payroll as of the Actuarial Valuation Date:

	2015	2014
Inactive Plan Members or Beneficiaries Currently Receiving Benefits	107	100
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	0	0
Active Plan Members	58	62
Total	165	162
Payroll of Active Plan Members	$ 4,183,410	$ 4,312,648

Participant count is shown as of the Actuarial Valuation Date. Pay is the active pensionable pay as of the Actuarial Valuation Date.

EXPECTED FUTURE WORKING LIFETIME

The chart below summarizes the expected future working lifetime of fund members:

	2015	2014
Average Future Working Career (In Years)		
Active Plan Members	13.97	13.05
Inactive Plan Members	0.00	0.00
Total	4.91	4.99

The expected future working lifetime is measured as of the Actuarial Valuation Date and is based on the demographic assumptions used in the preparation of the Actuary's report.

FUNDING POLICY

Formal Funding Policy
Informal Funding Policy

COMPONENTS OF THE ACTUARIALLY DETERMINED CONTRIBUTION

The Actuarially Determined Contribution (ADC) includes the determination of the Normal Cost contribution for active plan members, as well as provision for the payment of unfunded liability.

The actuarial funding method used in the determination of the normal cost and the actuarial liability is the Entry Age Normal Cost method (level percent of pay). The method allocates normal cost contributions by employee over the working career of the employee as a level percent of their pay.

Unfunded liability is the excess of the actuarial liability over the actuarial value of assets. The actuarially determined contribution includes a payment towards unfunded liability existing at the actuarial valuation date. The payment towards unfunded liability is set up as a level dollar payment that is expected to increase during the payment period. The period of repayment as of the Actuarial Valuation Date is 25 years.

The Actuarial Value of Assets smooths gains and losses on the market value of assets over a 5 year period.

Under no circumstances will the Actuarially Determined Contribution be less than the amount determined as the Statutory Minimum Contribution under Illinois statutes.

FORMAL FUNDING POLICY

There is no Formal Funding Policy that exists between the Pension Board and the City at this time.

INFORMAL FUNDING POLICY

In determining the most appropriate informal funding policy, GASB provides the following guidance in the Statement:

> *Application of professional judgment should consider the most recent five-year contribution history of the employers and nonemployer contributing entities as a key indicator of future contributions from those sources and should reflect all other known events and conditions.… the amount of projected cash flows for contributions from employers and nonemployer contributing entities should be limited to an average of contributions from those sources over the most recent five-year period and may be modified based on consideration of subsequent events. For this purpose, the basis for the average (for example, percentage of covered payroll contributed or percentage of actuarially determined contributions made) should be a matter of professional judgment.*

In our review of informal funding policy, the following factors are considered and described herein:

1. The five-year contribution history of the Employer (with a focus on the average contributions from those sources.)

2. All other known events and conditions

3. Consideration of subsequent events.

Five-Year Contribution History of the Employer

Employer contributions (under the informal policy) should be limited to the average over the most recent five years. In determining the basis for the average we reviewed three possibilities: (a) The average dollar contribution; (b) the average percent of pensionable pay; and (c) The average percent of the actuarial determined contribution. Please see the table below for a summary of these values:

Fiscal Year End	Employer Contributions	Most Applicable ADC	% of ADC	Covered Payroll	% of Payroll
12/31/2015	$3,482,362	$3,488,751	100%	$5,287,016	65.87%
12/31/2014	$3,489,864	$3,479,730	100%	$5,095,404	68.49%
12/31/2013	$3,657,429	$3,279,523	112%	$5,112,848	71.53%
12/31/2012	$3,024,688	$3,007,810	101%	$4,989,390	60.62%
12/31/2011	$2,679,017	$2,497,891	107%	$5,250,334	51.03%

The contribution history suggests that the contribution as a percent of the Actuarially Determined Contribution is the most stable contribution, when compared to the other contribution policies reviewed.

Other Known Events and Conditions

GASB has a provision for consideration of any other known events or conditions in the most recent five-year history in applying judgement for the informal funding policy. There are no events or conditions that have been considered in the development of the informal funding policy.

Consideration of Subsequent Events

GASB has a provision for modification based on consideration of subsequent events in development of the informal funding policy. There are no subsequent events that have been considered in the development of the informal funding policy.

Informal Funding Policy – Selected

The informal funding policy that has been determined for future contributions is 103.89% of the Actuarially Determined Contribution. This represents the full future contributions expected to be made.

FUNDING POLICY – OTHER CONSIDERATIONS

Under GASB, the future contribution amount is not intended to include dollars contributed on behalf of future employees. Contributions are only intended to cover contributions towards the Normal Cost of existing employees as of the Actuarial Valuation Date as well as payment of unfunded liability on behalf of the current existing employees. Contributions under the funding policy have been adjusted as necessary to exclude dollars that would be anticipated to be contributed on behalf of future employees hired after the actuarial valuation date.

The contribution level may not pay off the unfunded liability during the active working lifetimes of current employees. In that case contributions will persist beyond the working lifetimes of current employees. To the extent a portion of the above total contribution is anticipated to pay contributions for future employee normal cost, the amount has been netted out. The remaining amount is anticipated to be paid towards the unfunded liability existing for current employees.

The actuarial determined contribution is determined annually based on the parameters previously discussed. The funding methods and procedures are assumed to continue into the future. The tax levy in the next December is assumed to be the actuarially determined contribution. Funding is assumed to go into the fund during the next full fiscal year.

SCHEDULES OF REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Changes in the Net Pension Liability
Schedule of Total Pension Liability and Related Ratios
Schedule of the Actuarially Determined Contribution

SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY

	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
Total Pension Liability										
Service Cost	$ 1,223,912	1,331,203								
Interest	4,868,228	5,575,009								
Changes of Benefit Terms	-	-								
Differences Between Expected and Actual Experience	(683,158)	-								
Changes in Assumptions	13,890,206	-								
Benefit Payments and Refunds	(5,010,139)	(4,622,735)								
Net Change In Total Pension Liability	14,289,049	2,283,477								
Total Pension Liability - Beginning	84,186,743	81,903,266								
Total Pension Liability - Ending (A)	98,475,792	84,186,743								
Plan Fiduciary Net Position										
Contributions - Employer	3,482,362	3,489,864								
Contributions - Member	473,457	412,277								
Net Investment Income	143,156	1,642,081								
Benefit Payments and Refunds	(5,010,139)	(4,724,492)								
Administrative Expense	(86,198)	(45,147)								
Other	-	87								
Net Change in Plan Fiduciary Net Position	(997,362)	774,670								
Plan Fiduciary Net Position - Beginning	27,428,623	26,653,953								
Plan Fiduciary Net Position - Ending (b)	26,431,261	27,428,623								
Employer Net Pension Liability - Ending (a) - (b)	72,044,531	56,758,120								

The current year information was developed in the completion of this report.

SCHEDULE OF TOTAL PENSION LIABILITY AND RELATED RATIO

	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
Total Pension Liability - Ending (a)	$ 98,475,792	$ 84,186,743								
Plan Fiduciary Net Position - Ending (b)	26,431,261	27,428,623								
Employer Net Pension Liability - Ending (a) - (b)	72,044,531	56,758,120								
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	26.84%	32.58%								
Covered-Employee Payroll	5,287,016	5,095,404								
Employer Net Pension Liability as a Percentage of Covered-Employee Payroll	1362.67%	1113.91%								

Covered employee payroll shown is the W-2 pay for the fiscal year for all fund members.

SCHEDULE OF CONTRIBUTIONS

	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
Actuarially Determined Contribution	$3,488,751	$ 3,479,730								
Contributions in Relation to the Actuarially Determined Contribution	3,482,362	3,489,864								
Contribution Deficiency (excess)	6,389	(10,134)								
Covered-Employee Payroll	5,287,016	5,095,404								
Contributions as a Percentage of Covered-Employee Payroll	65.9%	68.5%								

NOTES TO SCHEDULE OF CONTRIBUTIONS

The actuarially determined contribution shown for the current year is from the December 31, 2013 actuary's report completed by Tepfer Consulting Group, Ltd. for the tax levy recommendation for the December, 2014 tax levy.

GASB METHODS AND PROCEDURES

GASB Methods and Procedures
Methodology for Deferred Outflows and Inflows

GASB Methods and Procedures

	Statement 67 Pension Fund Financials	Statement 68 Employer Financials
Fiscal Year End for Reporting	**December 31, 2015**	**December 31, 2015**
Measurement Date	December 31, 2015	December 31, 2015
Actuarial Valuation Date	January 1, 2016	January 1, 2016
Actuarial Valuation - Data Date	December 31, 2015	December 31, 2015
Asset Valuation Method	Market Value	Market Value
Actuarial Cost Method	Entry Age Normal (Level %)	Entry Age Normal (Level %)

Methodology Used in the Determination of Deferred Inflows and Outflows of Resources

Amortization Method	Straight Line	Straight Line
Amortization Period		
Actuarial Experience (TPL)	4.91 Years	4.91 Years
Changes in Assumptions	4.91 Years	4.91 Years
Asset Experience	5.00 Years	5.00 Years

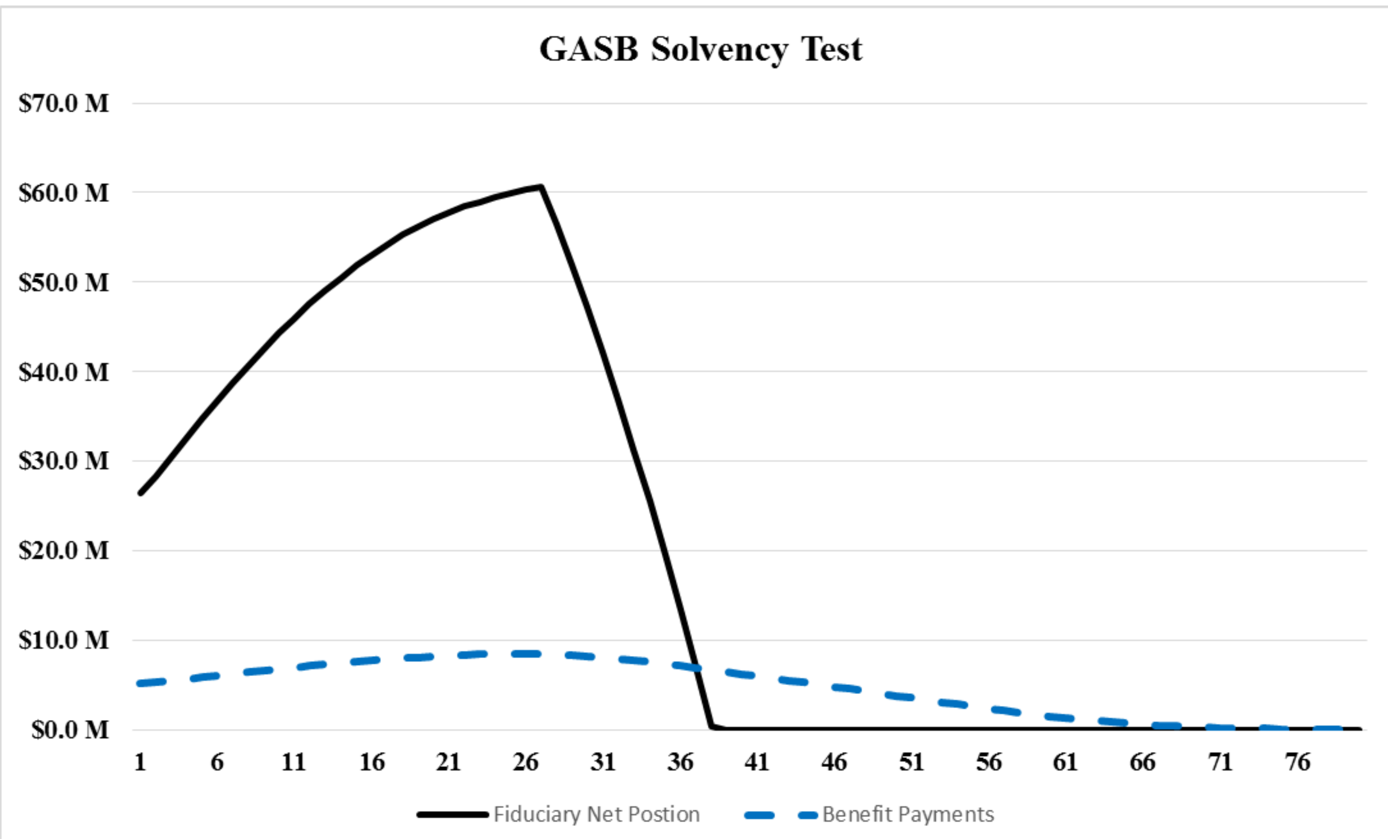
SUPPLEMENTARY TABLES

Projection of Contributions
Projection of the Pension Fund's Fiduciary Net Position
Actuarial Present Value of Projected Benefit Payments

GASB PROJECTIONS – SUMMARY AND PROCEDURE

GASB requires a solvency test to use in the determination of the discount rate each year. The Fiduciary Net Position of the fund is projected forward. To the extent the Net Position of the Fund is anticipated to be greater than $0, benefit payments during that time period are discounted based on the expected rate of return on plan assets.

If the Fiduciary Net Position of the fund is anticipated to go to $0 prior to the payment of future benefit payments for employees who are in the fund as of the Actuarial Valuation Date, then remaining expected future benefit payments are discounted using a high quality Municipal Bond rate as described in the assumption section of the report. Below is a chart with a high level summary of the projections:



The plan's projected net position is expected to cover future benefit payments in full for the current employees through 2052.

GASB PROJECTIONS – LIMITATIONS

Projections of any type require assumptions about future events. The projections required for GASB reporting are deterministic in nature. That means that values are projected forward under one set of assumptions which can be thought of as the average result. Actual results could vary, and projections of one deterministic assumption set do not necessarily provide a framework for making risk management or funding policy decisions. Projections that deal with risk management are outside the scope of this report.

In addition, GASB requirements create results that are specific only to financial statement reporting, and should not be used or interpreted for other purposes. For example, GASB cash flow projections do not entail the total expected cash flows of the pension fund, but rather a subset of cash flows specific to members who are in the pension fund as of the Actuarial Valuation date. While the likely expectation may be that new employees are hired to replace the old, cash flows attributable to their benefits are not considered. Under GASB, when the Net Position goes to $0, that represents only the Net Position for the assets attributable to the current fund members.

GASB also mandates certain assumptions that are made in the projection process. Most notably, future contributions under an informal funding policy. In proposing an informal funding policy, GASB suggests a focus be placed on the average contribution rate over the past 5 years. Assumed contributions noted in this section may be based on the five year average, unless a formal funding policy is in place.

Contributions reflecting informal funding policy are applied under GASB, whether or not the future results dictate a need for more or less contributions. This would not be the case with other uses for projections. Any events that are taken into account (past or future) in the informal funding policy are discussed in the "Funding Policy" section of this report.

The further you look forward with projections, the more sensitive the results are to assumptions. With projections that run out close to 80 years, a small change in an assumption will have a dramatic impact in the look of the projections on the following pages. If there is no change to the solvency of the fund as determined by GASB, big swings in the projection results may not necessarily lead to big swings in the determination of the Total Pension Liability.

We recommend the projections are not used for any other purposes, other than providing backup information for purposes of the financial statement report.

The following pages provide the detail behind the charts shown on the chart in this section.

PROJECTION OF CONTRIBUTIONS – YEARS 1 TO 30

	Projected Covered-Employee Payroll			Projected Contributions			
Year	Current Employees (a)	Future Employees (b)	Total Employee Payroll (c) = (a) + (b)	Current Employees (d) - Notes	Employer Contributions for Current Employees (e) - Notes	Contributions Related to Pay of Future Employees (f) - Notes	Total Contributions (d) + (e) + (f)
1	$ 4,183,412	$ -	$ 4,183,412	$ 395,542	$ 4,752,051	$ -	$ 5,147,592
2	4,189,676	140,155	4,329,831	396,134	5,080,857	-	5,476,990
3	4,154,763	326,613	4,481,376	392,833	5,089,533	-	5,482,366
4	4,116,069	522,155	4,638,224	389,174	5,091,780	-	5,480,955
5	4,030,350	770,211	4,800,561	381,070	5,092,907	-	5,473,976
6	3,955,195	1,013,386	4,968,581	373,964	5,086,356	-	5,460,320
7	3,887,219	1,255,262	5,142,481	367,537	5,081,391	-	5,448,927
8	3,784,013	1,538,455	5,322,468	357,778	5,077,704	-	5,435,482
9	3,700,713	1,808,042	5,508,755	349,902	5,068,911	-	5,418,814
10	3,613,277	2,088,284	5,701,561	341,635	5,064,854	-	5,406,489
11	3,492,294	2,408,822	5,901,116	330,196	5,058,247	-	5,388,444
12	3,368,408	2,739,247	6,107,655	318,483	5,043,670	-	5,362,153
13	3,203,678	3,117,745	6,321,423	302,908	5,029,069	-	5,331,977
14	3,066,656	3,476,017	6,542,673	289,952	5,004,456	-	5,294,408
15	2,904,280	3,867,386	6,771,666	274,600	4,982,124	-	5,256,724
16	2,763,605	4,245,069	7,008,674	261,299	4,954,361	-	5,215,660
17	2,597,314	4,656,664	7,253,978	245,576	4,929,036	-	5,174,612
18	2,424,574	5,083,293	7,507,867	229,243	4,898,984	-	5,128,227
19	2,231,926	5,538,717	7,770,643	211,029	4,867,836	-	5,078,865
20	2,077,808	5,964,807	8,042,615	196,457	4,833,395	-	5,029,851
21	1,926,383	6,397,724	8,324,107	182,140	4,807,065	-	4,989,205
22	1,732,400	6,883,050	8,615,450	163,798	4,781,249	-	4,945,047
23	1,554,903	7,362,088	8,916,991	147,016	4,748,491	-	4,895,507
24	1,381,151	7,847,935	9,229,086	130,588	4,719,009	-	4,849,597
25	1,228,594	8,323,510	9,552,104	116,164	4,689,404	-	4,805,567
26	1,086,026	8,800,401	9,886,427	102,684	4,662,042	-	4,764,726
27	931,975	9,300,477	10,232,452	88,118	165,976	-	254,094
28	804,615	9,785,973	10,590,588	76,076	140,858	-	216,934
29	695,042	10,266,217	10,961,259	65,716	119,711	-	185,427
30	574,092	10,770,811	11,344,903	54,280	101,871	-	156,152

Column d – Contributions from employees to the pension fund (employees as of the valuation date)
Column e – Employer contributions to the fund excluding contributions for employees hired after the actuarial valuation date
Column f – Contributions from future employees to the extent they are anticipated to be greater than required to pay their total normal cost

PROJECTION OF CONTRIBUTIONS – YEARS 31 TO 60

	Projected Covered-Employee Payroll			Projected Contributions			
Year	Current Employees (a)	Future Employees (b)	Total Employee Payroll (c) = (a) + (b)	Current Employees (d) - Notes	Employer Contributions for Current Employees (e) - Notes	Contributions Related to Pay of Future Employees (f) - Notes	Total Contributions (d) + (e) + (f)
31	$ 478,228	$ 11,263,746	$ 11,741,974	$ 45,216	$ 82,223	$ -	$ 127,439
32	400,395	11,752,549	12,152,944	37,857	66,955	-	104,813
33	315,011	12,263,286	12,578,297	29,784	54,766	-	84,550
34	275,948	12,742,589	13,018,537	26,091	40,019	-	66,110
35	228,982	13,245,204	13,474,186	21,650	33,508	-	55,159
36	170,283	13,775,499	13,945,782	16,100	26,770	-	42,870
37	124,980	14,308,905	14,433,885	11,817	19,691	-	31,508
38	103,899	14,835,172	14,939,071	9,824	13,009	-	22,833
39	77,628	15,384,310	15,461,938	7,340	10,713	-	18,053
40	61,813	15,941,293	16,003,106	5,844	7,399	-	13,243
41	45,858	16,517,357	16,563,215	4,336	5,907	-	10,243
42	33,924	17,109,003	17,142,927	3,208	4,382	-	7,590
43	25,040	17,717,890	17,742,930	2,368	3,242	-	5,610
44	10,528	18,353,404	18,363,932	995	2,394	-	3,389
45	-	19,006,670	19,006,670	-	1,041	-	1,041
46	-	19,671,903	19,671,903	-	-	-	-
47	-	20,360,420	20,360,420	-	-	-	-
48	-	21,073,034	21,073,034	-	-	-	-
49	-	21,810,591	21,810,591	-	-	-	-
50	-	22,573,961	22,573,961	-	-	-	-
51	-	23,364,050	23,364,050	-	-	-	-
52	-	24,181,792	24,181,792	-	-	-	-
53	-	25,028,154	25,028,154	-	-	-	-
54	-	25,904,140	25,904,140	-	-	-	-
55	-	26,810,785	26,810,785	-	-	-	-
56	-	27,749,162	27,749,162	-	-	-	-
57	-	28,720,383	28,720,383	-	-	-	-
58	-	29,725,596	29,725,596	-	-	-	-
59	-	30,765,992	30,765,992	-	-	-	-
60	-	31,842,802	31,842,802	-	-	-	-

Column d – Contributions from employees to the pension fund (employees as of the valuation date)
Column e – Employer contributions to the fund excluding contributions for employees hired after the actuarial valuation date
Column f – Contributions from future employees to the extent they are anticipated to be greater than required to pay their total normal cost

PROJECTION OF CONTRIBUTIONS – YEARS 61 TO 80

	Projected Covered-Employee Payroll			Projected Contributions			
Year	Current Employees (a)	Future Employees (b)	Total Employee Payroll (c) = (a) + (b)	Current Employees (d) - Notes	Employer Contributions for Current Employees (e) - Notes	Contributions Related to Pay of Future Employees (f) - Notes	Total Contributions (d) + (e) + (f)
61	$ -	$ 32,957,300	$ 32,957,300	$ -	$ -	$ -	$ -
62	-	34,110,806	34,110,806	-	-	-	-
63	-	35,304,684	35,304,684	-	-	-	-
64	-	36,540,348	36,540,348	-	-	-	-
65	-	37,819,260	37,819,260	-	-	-	-
66	-	39,142,934	39,142,934	-	-	-	-
67	-	40,512,937	40,512,937	-	-	-	-
68	-	41,930,889	41,930,889	-	-	-	-
69	-	43,398,470	43,398,470	-	-	-	-
70	-	44,917,417	44,917,417	-	-	-	-
71	-	46,489,527	46,489,527	-	-	-	-
72	-	48,116,660	48,116,660	-	-	-	-
73	-	49,800,743	49,800,743	-	-	-	-
74	-	51,543,769	51,543,769	-	-	-	-
75	-	53,347,801	53,347,801	-	-	-	-
76	-	55,214,974	55,214,974	-	-	-	-
77	-	57,147,498	57,147,498	-	-	-	-
78	-	59,147,661	59,147,661	-	-	-	-
79	-	61,217,829	61,217,829	-	-	-	-
80	-	63,360,453	63,360,453	-	-	-	-

NOTES TO PROJECTION OF CONTRIBUTIONS

Total payroll is assumed to increase annually at the assumed payroll increase rate shown in the assumption section of this report. Payroll for current employees (employees active as of the actuarial valuation date) has been projected on an employee by employee basis, using expected pay increases and probability of remaining in active employment for future periods.

Employer contributions are related to current employees in the fund as of the Actuarial Valuation Date. To the extent future contributions under the Employer funding policy are made to cover the Normal Cost of providing benefits for future employees, those contributions have been excluded out for purposes of these projections and this report.

Contributions are based on the Funding Policy described in an earlier section of this report. The contributions do not factor in changes in funding policy based on an assumed Employer decision if the projections were to play out in this fashion. The only future events that have been considered were outlined in the funding policy section of the report. Contributions from future employees have not been included. It is assumed that contributions made by future employees will not exceed the Normal Cost of their participation in the Fund. In addition, contributions by the employer on behalf of service for future employees have not been included per the GASB parameters.

PROJECTION OF THE PENSION PLAN'S FIDUCIARY NET POSITION – YEARS 1 TO 30

Year	Projected Beginning Fiduciary Net Position (a)	Projected Total Contributions (b)	Projected Benefit Payments (c)	Projected Administrative Expenses (d)	Projected Investment Earnings (e)	Projected Ending Fiduciary Net Position (a)+(b)-(c)-(d)+(e)
1	$ 26,431,261	$ 5,147,592	$ 5,139,395	$ 46,575	$ 1,895,420	$ 28,288,303
2	28,288,303	5,476,990	5,293,777	47,972	2,032,887	30,456,431
3	30,456,431	5,482,366	5,469,739	49,411	2,180,074	32,599,721
4	32,599,721	5,480,955	5,662,077	50,894	2,324,754	34,692,459
5	34,692,459	5,473,976	5,848,346	52,420	2,465,955	36,731,624
6	36,731,624	5,460,320	6,024,929	53,993	2,603,556	38,716,577
7	38,716,577	5,448,927	6,216,732	55,613	2,736,954	40,630,113
8	40,630,113	5,435,482	6,404,497	57,281	2,865,469	42,469,286
9	42,469,286	5,418,814	6,575,982	59,000	2,989,284	44,242,402
10	44,242,402	5,406,489	6,756,273	60,770	3,108,368	45,940,217
11	45,940,217	5,388,444	6,924,992	62,593	3,222,438	47,563,514
12	47,563,514	5,362,153	7,106,885	64,471	3,330,594	49,084,905
13	49,084,905	5,331,977	7,261,036	66,405	3,432,507	50,521,948
14	50,521,948	5,294,408	7,421,778	68,397	3,528,081	51,854,263
15	51,854,263	5,256,724	7,553,129	70,449	3,617,407	53,104,816
16	53,104,816	5,215,660	7,691,453	72,562	3,700,707	54,257,167
17	54,257,167	5,174,612	7,830,212	74,739	3,777,179	55,304,007
18	55,304,007	5,128,227	7,969,883	76,981	3,846,109	56,231,479
19	56,231,479	5,078,865	8,068,646	79,291	3,908,077	57,070,484
20	57,070,484	5,029,851	8,178,938	81,669	3,963,527	57,803,254
21	57,803,254	4,989,205	8,283,745	84,119	4,012,094	58,436,689
22	58,436,689	4,945,047	8,369,970	86,643	4,054,306	58,979,429
23	58,979,429	4,895,507	8,425,460	89,242	4,091,131	59,451,364
24	59,451,364	4,849,597	8,449,755	91,920	4,124,292	59,883,579
25	59,883,579	4,805,567	8,463,568	94,677	4,155,184	60,286,085
26	60,286,085	4,764,726	8,469,423	97,517	4,184,466	60,668,337
27	60,668,337	254,094	8,439,093	100,443	4,057,236	56,440,131
28	56,440,131	216,934	8,385,829	103,456	3,764,733	51,932,513
29	51,932,513	185,427	8,310,492	106,560	3,453,729	47,154,617
30	47,154,617	156,152	8,201,850	109,757	3,125,139	42,124,301

Column b – Contributions on behalf of current employees only as of the Actuarial Valuation Date.
Column d – Based on average administrative expenses in recent years and projected to increase going forward.
Column e – Based on the current expected return on assets. Does not factor in allocation changes.

PROJECTION OF THE PENSION PLAN'S FIDUCIARY NET POSITION – YEARS 31 TO 60

Year	Projected Beginning Fiduciary Net Position (a)	Projected Total Contributions (b)	Projected Benefit Payments (c)	Projected Administrative Expenses (d)	Projected Investment Earnings (e)	Projected Ending Fiduciary Net Position (a)+(b)-(c)-(d)+(e)
31	$ 42,124,301	$ 127,439	$ 8,075,362	$ 113,049	$ 2,779,616	$ 36,842,945
32	36,842,945	104,813	7,939,622	116,441	2,417,153	31,308,848
33	31,308,848	84,550	7,749,160	119,934	2,039,095	25,563,399
34	25,563,399	66,110	7,559,161	123,532	1,646,390	19,593,205
35	19,593,205	55,159	7,363,598	127,238	1,238,514	13,396,041
36	13,396,041	42,870	7,153,018	131,055	815,336	6,970,174
37	6,970,174	31,508	6,919,734	134,987	377,087	324,048
38	324,048	22,833	6,686,880	139,037	-	-
39	-	-	6,453,293	-	-	-
40	-	-	6,221,761	-	-	-
41	-	-	5,979,603	-	-	-
42	-	-	5,736,602	-	-	-
43	-	-	5,498,812	-	-	-
44	-	-	5,260,290	-	-	-
45	-	-	5,014,960	-	-	-
46	-	-	4,770,268	-	-	-
47	-	-	4,525,891	-	-	-
48	-	-	4,281,448	-	-	-
49	-	-	4,036,864	-	-	-
50	-	-	3,792,259	-	-	-
51	-	-	3,547,986	-	-	-
52	-	-	3,304,585	-	-	-
53	-	-	3,062,856	-	-	-
54	-	-	2,823,823	-	-	-
55	-	-	2,588,757	-	-	-
56	-	-	2,358,792	-	-	-
57	-	-	2,135,247	-	-	-
58	-	-	1,919,421	-	-	-
59	-	-	1,712,618	-	-	-
60	-	-	1,516,194	-	-	-

Column b – Contributions on behalf of current employees only as of the Actuarial Valuation Date.
Column d – Based on average administrative expenses in recent years and projected to increase going forward.
Column e – Based on the current expected return on assets. Does not factor in allocation changes.

PROJECTION OF THE PENSION PLAN'S FIDUCIARY NET POSITION – YEARS 61 TO 80

Year	Projected Beginning Fiduciary Net Position (a)	Projected Total Contributions (b)	Projected Benefit Payments (c)	Projected Administrative Expenses (d)	Projected Investment Earnings (e)	Projected Ending Fiduciary Net Position (a)+(b)-(c)-(d)+(e)
61	$ -	$ -	$ 1,331,264	$ -	$ -	$ -
62	-	-	1,158,925	-	-	-
63	-	-	999,906	-	-	-
64	-	-	854,864	-	-	-
65	-	-	724,080	-	-	-
66	-	-	607,643	-	-	-
67	-	-	505,193	-	-	-
68	-	-	416,091	-	-	-
69	-	-	339,579	-	-	-
70	-	-	274,647	-	-	-
71	-	-	220,133	-	-	-
72	-	-	174,849	-	-	-
73	-	-	137,631	-	-	-
74	-	-	107,435	-	-	-
75	-	-	83,140	-	-	-
76	-	-	63,732	-	-	-
77	-	-	48,420	-	-	-
78	-	-	36,420	-	-	-
79	-	-	27,099	-	-	-
80	-	-	19,954	-	-	-

NOTES TO PROJECTION OF FIDUCIARY NET POSITION

Total contributions are Employee and Employer contributions anticipated to be made under the funding policy on behalf of employees in the fund as of the Actuarial Valuation Date. The amounts shown were detailed earlier in this section.

Projected benefit payments shown represent only employees active as of the Actuarial Valuation Date. The fund will also be paying benefit payments in the future on behalf of employees hired after the Actuarial Valuation Date, but those have not been estimated for this purpose.

Projected investment earnings are based on the current expected rate of return on plan assets. Administrative expenses are not typically charged on a per employee basis. Administrative expenses shown have not been adjusted to distinguish between current employees and future employees.

The projected Net Position represents assets held or projected to be held on behalf of current employees as of the Actuarial Valuation Date. The fund will also hold assets in the future on behalf of new employees that are not shown here.

ACTUARIAL PRESENT VALUES OF PROJECTED BENEFIT PAYMENTS – YEARS 1 TO 30

			Projected Benefit Payments		Present Value (PV) of Projected Benefit Payments		
Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	PV of "Funded" Portion of Benefit Payments (7.00%)	PV of "Unfunded" Portion of Benefit Payments (3.57%)	PV of Total Projected Payments Using the Single Discount Rate (5.96%)
1	$ 26,431,261	$ 5,139,395	$ 5,139,395	$ -	$ 4,968,441	$ -	$ 4,992,764
2	28,288,303	5,293,777	5,293,777	-	4,782,885	-	4,853,474
3	30,456,431	5,469,739	5,469,739	-	4,618,566	-	4,732,730
4	32,599,721	5,662,077	5,662,077	-	4,468,199	-	4,623,586
5	34,692,459	5,848,346	5,848,346	-	4,313,264	-	4,507,070
6	36,731,624	6,024,929	6,024,929	-	4,152,801	-	4,381,988
7	38,716,577	6,216,732	6,216,732	-	4,004,678	-	4,267,165
8	40,630,113	6,404,497	6,404,497	-	3,855,731	-	4,148,780
9	42,469,286	6,575,982	6,575,982	-	3,699,973	-	4,020,259
10	44,242,402	6,756,273	6,756,273	-	3,552,723	-	3,898,151
11	45,940,217	6,924,992	6,924,992	-	3,403,217	-	3,770,759
12	47,563,514	7,106,885	7,106,885	-	3,264,118	-	3,652,135
13	49,084,905	7,261,036	7,261,036	-	3,116,746	-	3,521,472
14	50,521,948	7,421,778	7,421,778	-	2,977,330	-	3,396,969
15	51,854,263	7,553,129	7,553,129	-	2,831,797	-	3,262,636
16	53,104,816	7,691,453	7,691,453	-	2,695,007	-	3,135,510
17	54,257,167	7,830,212	7,830,212	-	2,564,137	-	3,012,530
18	55,304,007	7,969,883	7,969,883	-	2,439,135	-	2,893,795
19	56,231,479	8,068,646	8,068,646	-	2,307,814	-	2,764,869
20	57,070,484	8,178,938	8,178,938	-	2,186,318	-	2,645,020
21	57,803,254	8,283,745	8,283,745	-	2,069,471	-	2,528,231
22	58,436,689	8,369,970	8,369,970	-	1,954,217	-	2,410,860
23	58,979,429	8,425,460	8,425,460	-	1,838,479	-	2,290,339
24	59,451,364	8,449,755	8,449,755	-	1,723,159	-	2,167,746
25	59,883,579	8,463,568	8,463,568	-	1,613,062	-	2,049,159
26	60,286,085	8,469,423	8,469,423	-	1,508,577	-	1,935,237
27	60,668,337	8,439,093	8,439,093	-	1,404,836	-	1,819,844
28	56,440,131	8,385,829	8,385,829	-	1,304,644	-	1,706,642
29	51,932,513	8,310,492	8,310,492	-	1,208,340	-	1,596,177
30	47,154,617	8,201,850	8,201,850	-	1,114,526	-	1,486,703

The projected Fiduciary Net Position and the Projected Benefit Payments are based only on the current employee group as of the Actuarial Valuation Date. The development of the Projected Fiduciary Net Position was shown in more detail earlier in this section.

ACTUARIAL PRESENT VALUES OF PROJECTED BENEFIT PAYMENTS – YEARS 31 TO 60

			Projected Benefit Payments		Present Value (PV) of Projected Benefit Payments		
Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	PV of "Funded" Portion of Benefit Payments (7.00%)	PV of "Unfunded" Portion of Benefit Payments (3.57%)	PV of Total Projected Payments Using the Single Discount Rate (5.96%)
31	$ 42,124,301	$ 8,075,362	$ 8,075,362	$ -	$ 1,025,550	$ -	$ 1,381,442
32	36,842,945	7,939,622	7,939,622	-	942,347	-	1,281,824
33	31,308,848	7,749,160	7,749,160	-	859,571	-	1,180,705
34	25,563,399	7,559,161	7,559,161	-	783,641	-	1,086,972
35	19,593,205	7,363,598	7,363,598	-	713,427	-	999,293
36	13,396,041	7,153,018	7,153,018	-	647,687	-	916,115
37	6,970,174	6,919,734	6,919,734	-	585,574	-	836,389
38	324,048	6,686,880	324,048	6,362,832	25,628	1,707,561	762,782
39	-	6,453,293	-	6,453,293	-	1,672,143	694,730
40	-	6,221,761	-	6,221,761	-	1,556,579	632,130
41	-	5,979,603	-	5,979,603	-	1,444,429	573,355
42	-	5,736,602	-	5,736,602	-	1,337,965	519,115
43	-	5,498,812	-	5,498,812	-	1,238,297	469,609
44	-	5,260,290	-	5,260,290	-	1,143,752	423,970
45	-	5,014,960	-	5,014,960	-	1,052,823	381,462
46	-	4,770,268	-	4,770,268	-	966,934	342,440
47	-	4,525,891	-	4,525,891	-	885,777	306,622
48	-	4,281,448	-	4,281,448	-	809,053	273,746
49	-	4,036,864	-	4,036,864	-	736,540	243,590
50	-	3,792,259	-	3,792,259	-	668,061	215,959
51	-	3,547,986	-	3,547,986	-	603,484	190,684
52	-	3,304,585	-	3,304,585	-	542,709	167,613
53	-	3,062,856	-	3,062,856	-	485,672	146,614
54	-	2,823,823	-	2,823,823	-	432,334	127,568
55	-	2,588,757	-	2,588,757	-	382,683	110,371
56	-	2,358,792	-	2,358,792	-	336,670	94,910
57	-	2,135,247	-	2,135,247	-	294,258	81,083
58	-	1,919,421	-	1,919,421	-	255,397	68,787
59	-	1,712,618	-	1,712,618	-	220,025	57,924
60	-	1,516,194	-	1,516,194	-	188,076	48,396

The projected Fiduciary Net Position and the Projected Benefit Payments are based only on the current employee group as of the Actuarial Valuation Date. The development of the Projected Fiduciary Net Position was shown in more detail earlier in this section.

ACTUARIAL PRESENT VALUES OF PROJECTED BENEFIT PAYMENTS – YEARS 61 TO 80

			Projected Benefit Payments		Present Value (PV) of Projected Benefit Payments		
Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	PV of "Funded" Portion of Benefit Payments (7.00%)	PV of "Unfunded" Portion of Benefit Payments (3.57%)	PV of Total Projected Payments Using the Single Discount Rate (5.96%)
61	$ -	$ 1,331,264	$ -	$ 1,331,264	$ -	$ 159,444	$ 40,103
62	-	1,158,925	-	1,158,925	-	134,019	32,948
63	-	999,906	-	999,906	-	111,644	26,828
64	-	854,864	-	854,864	-	92,159	21,646
65	-	724,080	-	724,080	-	75,369	17,303
66	-	607,643	-	607,643	-	61,069	13,704
67	-	505,193	-	505,193	-	49,023	10,753
68	-	416,091	-	416,091	-	38,985	8,358
69	-	339,579	-	339,579	-	30,719	6,438
70	-	274,647	-	274,647	-	23,989	4,914
71	-	220,133	-	220,133	-	18,565	3,717
72	-	174,849	-	174,849	-	14,238	2,786
73	-	137,631	-	137,631	-	10,821	2,070
74	-	107,435	-	107,435	-	8,155	1,525
75	-	83,140	-	83,140	-	6,094	1,114
76	-	63,732	-	63,732	-	4,510	806
77	-	48,420	-	48,420	-	3,308	578
78	-	36,420	-	36,420	-	2,403	410
79	-	27,099	-	27,099	-	1,726	288
80	-	19,954	-	19,954	-	1,227	200

NOTES TO THE ACTUARIAL PRESENT VALUE OF PROJECTED BENEFIT PAYMENTS

The projected Fiduciary Net Position and the Projected Benefit Payments are based only on the current employee group as of the Actuarial Valuation Date. The development of the Net Position was shown in more detail earlier in this section.

The Funded and Unfunded portion of the Benefit Payments is split based on the time that the Fiduciary Net Position is projected to go to $0 (based on assets for current fund members).

The Present Value of the Funded portion and Unfunded portion of the benefit payments has been determined separately. The PV of the funded portion of the benefit payments uses the assumption for the expected rate of return on plan assets. The PV of the unfunded portion of the benefit payments has been determined using the high quality Municipal Bond Rate as of the Measurement Date as described in the Actuarial Assumption section of the report.

The discount rate used for GASB purposes is the rate that is when applied to the total Projected Benefit payments results in a present value that equals the sum of the present value of the funded and unfunded payments. The discount rate has been round to four decimal places. Therefore, the resulting present value comparisons might show a slight difference due to rounding.

Lauterbach & Amen, LLP
27W457 Warrenville Road
Warrenville, IL 60555-3902

Actuarial Valuation
as of January 1, 2016

MOLINE FIREFIGHTERS' PENSION FUND

Utilizing Data as of December 31, 2015
For the Contribution Year January 1, 2016 to December 31, 2016

LAUTERBACH & AMEN, LLP

Actuarial Valuation – Funding Recommendation

Lauterbach & Amen, LLP

CERTIFIED PUBLIC ACCOUNTANTS

MOLINE FIREFIGHTERS' PENSION FUND

Contribution Year Ending: December 31, 2016
Actuarial Valuation Date: January 1, 2016
Utilizing Data as of December 31, 2015

Submitted by:

Lauterbach & Amen, LLP
630.393.1483 Phone
www.lauterbachamen.com

Contact:

Todd A. Schroeder
April 3, 2016

LAUTERBACH & AMEN, LLP

TABLE OF CONTENTS

TABLE OF CONTENTS

Lauterbach & Amen, LLP
CERTIFIED PUBLIC ACCOUNTANTS
27W457 WARRENVILLE RD. • WARRENVILLE, ILLINOIS 60555
PHONE 630.393.1483 • FAX 630.393.2516
www.lauterbachamen.com

ACTUARIAL CERTIFICATION

This report documents the results of the Actuarial valuation of the Moline Firefighters' Pension Fund. The purpose is to report the actuarial contribution requirement for the contribution year January 1, 2016 to December 31, 2016. Determinations for purposes other than meeting the employer's actuarial contribution requirements may be significantly different from the results herein.

The results in this report are based on information and data submitted by the Moline Firefighters' Pension Fund including studies performed by prior actuaries. We did not prepare the actuarial valuations for the years prior to January 1, 2014. Those Valuations were prepared by other actuaries whose reports have been furnished to us, and our disclosures are based upon those reports. An audit of the information was not performed, but high-level reviews were performed for general reasonableness, as appropriate, based on the purpose of the valuation. The accuracy of the results is dependent upon the accuracy and completeness of the underlying information. The results of the actuarial valuation and these supplemental disclosures rely on the information provided.

The valuation results summarized in this report involve actuarial calculations that require assumptions about future events. The Moline Firefighters' Pension Fund selected certain assumptions, while others were the result of guidance and/or judgment. We believe that the assumptions used in this valuation are reasonable and appropriate for the purposes for which they have been used.

To the best of our knowledge, all calculations are in accordance with the applicable funding requirements, and the procedures followed and presentation of results conform to generally accepted actuarial principles and practices. The undersigned of Lauterbach & Amen, LLP, with actuarial credentials, meets the Qualification Standards of the American Academy of Actuaries to render this Actuarial Opinion. There is no relationship between the Moline Firefighters' Pension Fund and Lauterbach & Amen, LLP that impairs our objectivity.

The information contained in this report was prepared for the use of the Moline Firefighters' Pension Fund and the City of Moline, Illinois in connection with our actuarial valuation. It is not intended or necessarily suitable for other purposes. It is intended to be used in its entirety to avoid misrepresentations.

Respectfully Submitted,

LAUTERBACH & AMEN, LLP

Todd A. Schroeder

Todd A. Schroeder, EA

MANAGEMENT SUMMARY

Contribution Recommendation
Funded Status
Management Summary

MANAGEMENT SUMMARY

CONTRIBUTION RECOMMENDATION

	Prior Valuation	Current Valuation
Contribution Requirement	$4,574,174	$4,890,673
Expected Payroll	$4,378,650	$4,256,620
Contribution Requirement as a Percent of Expected Payroll	104.47%	114.90%

Recommended Contribution has Increased $316,499 from Prior Year.

FUNDED STATUS

	Prior Valuation	Current Valuation
Normal Cost	$1,125,075	$923,098
Market Value of Assets	$27,428,623	$26,431,261
Actuarial Value of Assets	$28,245,379	$28,287,484
Actuarial Accrued Liability	$81,109,112	$87,178,963
Unfunded Actuarial Accrued Liability	$52,863,733	$58,891,479
Percent Funded		
Actuarial Value of Assets	34.82%	32.45%
Market Value of Assets	33.82%	30.32%

Funded Percentage has Decreased 2.37 on an Actuarial Value of Assets Basis.

MANAGEMENT SUMMARY – COMMENTS AND ANALYSIS

Contribution Results

The contribution recommendation is based on the funding policies and procedures that are outlined in the "Actuarial Funding Policies" section of this report.

The State of Illinois statutes for pension funds contain parameters that should be used to determine the minimum amount of contribution to a public pension fund. Those parameters and the resulting minimum contribution can be found in the "Illinois Statutory Minimum Contribution" section of this report.

Defined Benefit Plan Risks

Asset Growth

Pension funding involves preparing plan assets to pay benefits for the members when they retire. During their working careers, assets need to build with contributions and investment earnings, and then the pension fund distributes assets during retirement. Based on the fund's current mix of employees and funded status, the fund should be experiencing positive asset growth on average if requested contributions are made and expected investment earnings come in. In the current year the fund asset growth was negative by approximately $1 million dollars.

Asset growth is important long-term. Long-term cash flow out of the pension fund is primarily benefit payments. Expenses make up a smaller portion. The fund should monitor the impact of expected benefit payments and the impact on asset growth in the future. In the next 5 years, benefits payments are anticipated to increase 20-25%, or approximately $1 million. In the next 10 years, the expected increase in benefit payments is 35-40%, or approximately $1.9 million dollars.

Unfunded Liability:

Unfunded liability represents dollars we expect to be in the pension fund already for the fund members based on funding policy. To the extent dollars are not in the pension fund the fund is losing investment returns on those dollars going forward. Payments to unfunded liability pay for the lost investment earnings, as well as the outstanding unfunded amount. If payment is not made, the unfunded liability will grow.

In the early 1990s, many pension funds in Illinois adopted an increasing payment to handle unfunded liability due to a change in legislation. The initial payments decreased, and payments were anticipated to increase annually after that. In many situations, payments early on may be less than the interest on unfunded liability, which means unfunded liability is expected to *increase* even if contributions are at the recommended level.

The current contribution recommendation includes a payment to unfunded liability that is currently approximately $183,000 more than interest on the unfunded liability. All else being equal and contributions being made, unfunded liability would still be expected to decrease. The employer and the fund should anticipate currently that improvement in the funded percent will be mitigated in the short-term. The employer and the fund should understand this impact as we progress forward to manage expectations.

Actuarial Value of Assets:
The pension fund smooths asset returns that vary from expectations over a five year period. The intention over time is that asset returns for purposes of funding recommendations are a combination of several years. The impact is intended to smooth out the volatility of contribution recommendations over time, but not necessarily increase or decrease the level of contributions over the long-term.

When asset returns are smoothed, there are always gains or losses on the Market Value of Assets that are going to be deferred for current funding purposes, and recognized in future years. Currently, the pension fund is deferring $1.8 million dollars in losses on the Market Value of Assets. These are asset losses that will be recognized in upcoming periods, independent of the future performance of the Market Value of Assets.

Plan Assets
The results in this report are based on the Assets held in the pension fund. Assets consist of funds held for investment and for benefit payments as of the Valuation Date. In addition, Assets may be adjusted for other events representing dollars that are reasonably expected to be paid out from the pension fund or deposited into the pension fund after the Actuarial Valuation Date as well.

The current fund Assets are audited.

The Plan Assets Used in this Report are audited.

The current fund Assets are based on the year-end financials as prepared by the pension fund accountant. The year-end financials represent a full accrual version of the fiduciary fund as of the end of the fiscal year, prepared in preparation for the audit. The changes to the fund cash balance as of the fiscal year-end are non-cash items that can include accrued interest, due/unpaid expenses, prepaids and other adjustments.

The actuarial value of assets under the funding policy is equal to the fair market value of assets, with unexpected gains and losses smoothed over 5 years. More detail on the Actuarial Value of Assets can be found in the funding policy section of the report.

Demographic Data
Demographic factors can change from year to year within a pension fund. Changes in this category include hiring new employees, employees retiring or becoming disabled, retirees passing away, and other changes. Demographic changes can cause an actuarial gain (contribution that is less than expected

compared to the prior year) or an actuarial loss (contribution that is greater than expected compared to the prior year).

Demographic gains and losses occur when the assumptions over the one-year period for employee changes do not meet our long-term expectation. For example, if no employees become disabled during the year, we would expect a liability gain. If more employees become disabled than anticipated last year, we would expect a liability loss. Generally, we expect short-term fluctuations in demographic experience to create 1%-3% gains or losses in any given year, but to balance out in the long-term.

In the current report, the key demographic changes were as follows:

New hires: The fund added 5 new active members in the current year through hiring. When a new member is admitted to the pension fund, the employer contribution will increase to reflect the new member. The increase in the recommended contribution in the current year for new fund members is approximately $32,500.

Disability: There was 1 member of the fund who became disabled during the year, with an eligible dependent. When a member becomes disabled, the fund will often experience a decrease in normal cost, but an increase in unfunded liability. If there is an eligible dependent, the fund liability will increase to represent the value of the expected payments that will be made to the dependent. The net decrease in the recommended contribution in the current year for the new disability was approximately $1,750.

Retirement: There were 3 members of the fund who retired during the year. When a fund member retires the normal cost will decrease. Any change in the actuarial liability will be considered when determining the amount to pay towards unfunded liability each year. The increase in the recommended contribution in the current year due to the retirement experience is approximately $150.

Termination: There were 4 members of the fund who terminated employment during the year. The members took a refund. The fund is no longer obligated to pay a benefit to the members in the future. The decrease in the recommended contribution in the current year due to the termination experience is approximately $70,500.

Mortality: There were 3 members who passed away during the year, all with eligible surviving spouses. When a retiree passes away the fund liability will decrease as the pension fund no longer will make future payments to the retiree. If there is an eligible surviving spouse, the fund liability will increase to represent the value of the expected payments that will be made to the spouse. The net decrease in the recommended contribution in the current year due to the passing of the retirees is approximately $72,300.

Salary Increases: Salary increases were greater than anticipated in the current year. Most active members received increases of 5.50% or greater. This caused an increase in the recommended contribution in the current year of approximately $35,000.

Assumption Changes

We performed a comprehensive study of Firefighter pension funds in the State of Illinois. We reviewed the results of the study in addition to the experience in the current fund. The actuarial assumptions were changed in the current year. The changes were made to better reflect the future anticipated experience in the fund.

Funding Policy Changes

The funding policy was not changed from the prior year.

ACTUARIAL CONTRIBUTION RECOMMENDATION - RECONCILIATION

Actuarial liability is expected to increase each year for both interest for the year and as active employees earn additional service years towards retirement. Similarly actuarial liability is expected to decrease when the fund pays benefits to inactive employees.

Contributions are expected to increase as expected pay increases under the funding policy for the Fund.

	Actuarial Liability	Contribution Recommendation
Prior Valuation	$ 81,109,112	$ 4,574,174
Expected Changes	1,820,007	27,644
Initial Expected Current Valuation	$ 82,929,119	$ 4,601,818

Other increases or decreases in actuarial liability (key changes noted below) will increase or decrease the amount of unfunded liability in the plan. To the extent unfunded liability increases or decreases unexpectedly, the contribution towards unfunded liability will also change unexpectedly.

	Actuarial Liability	Contribution Recommendation
Salary Increase Greater than Expected	318,462	34,755
Demographic Changes	508,199	(110,383)
Assumption Changes	3,423,183	203,485
Asset Return Less than Expected *	-	72,411
Contributions Less than Expected	-	88,587
Total Actuarial Experience	$ 4,249,844	$ 288,855
Current Valuation	$ 87,178,963	$ 4,890,673

*The impact on contribution due to asset performance is based on the Actuarial Value of Assets.

Key demographic changes were discussed in the prior section.

VALUATION OF FUND ASSETS

Market Value of Assets
Actuarial Value of Assets

VALUATION OF FUND ASSETS

MARKET VALUE OF ASSETS

Statement of Assets

	Prior Valuation	Current Valuation
Cash and Cash Equivalents	$ 886,280	$ 1,152,097
Fixed Income	8,920,629	9,151,060
Mutual Funds	17,621,714	16,063,036
Receivables (Net of Payables)	-	65,067
Net Assets Available for Pensions	$ 27,428,623	$ 26,431,261

The Total Value of Assets has Decreased $997,362 from Prior Valuation.

Statement of Changes in Assets

Total Market Value - Prior Valuation	$ 27,428,623
Plus - Employer Contributions	3,482,362
Plus - Employee Contributions	473,457
Plus - Return on Investments	143,156
Less - Benefit and Related Payments	(5,010,139)
Less - Other Expenses	(86,198)
Total Market Value - Current Valuation	$ 26,431,261

The Return on Investment on the Market Value of Assets for the Fund was Approximately 0.2% Net of Administrative Expenses.

The return on investments shown has been determined as the Return on Assets from the statement of changes in assets, as a percent of the average of the beginning and ending Market Value of Assets. Return on Investment is net of the Other Expenses as shown. The Return on Investments has been excluded from the Total Market Value of Assets at the end of the year for this calculation.

MARKET VALUE OF ASSETS (GAIN)/LOSS

Current Year (Gain)/Loss on Market Value of Assets

Total Market Value - Prior Valuation	$ 27,428,623
Contributions	3,955,819
Benefit Payments	(5,010,139)
Expected Return on Investments	1,883,102
Expected Total Market Value - Current Valuation	28,257,405
Actual Total Market Value - Current Valuation	26,431,261
Current Market Value (Gain)/Loss	$ 1,826,144
Expected Return on Investments	$ 1,883,102
Actual Return on Investments (Net of Expenses)	56,958
Current Market Value (Gain)/Loss	$ 1,826,144

The Return on the Market Value of Assets was Lower than Expected Over the Most Recent Year.

The (Gain)/Loss on the Market Value of Assets has been determined based on expected returns at the actuarial rate.

VALUATION OF FUND ASSETS

Development of the Actuarial Value of Assets

Total Market Value - Current Valuation		$ 26,431,261
Adjustment for Prior (Gains)/Losses		
	Full Amount	
First Preceding Year	$ 1,826,144	1,460,916
Second Preceding Year	240,063	144,038
Third Preceding Year	(736,292)	(294,517)
Fourth Preceding Year	2,728,930	545,786
Total Deferred (Gain)/Loss		1,856,223
Initial Actuarial Value of Assets - Current Valuation		28,287,484
Less Contributions for the Current Year and Interest		-
Less Adjustment for the Corridor		-
Actuarial Value of Assets - Current Valuation		$ 28,287,484

The Actuarial Value of Assets is Equal to the Fair Market Value of Assets with Unanticipated Gains/Losses Recognized over 5 Years. The Actuarial Value of Assets is Currently 107% of the Market Value.

(Gain)/Loss on the Actuarial Value of Assets

Total Actuarial Value - Prior Valuation	$ 28,245,379
Plus - Employer Contributions	3,482,362
Plus - Employee Contributions	473,457
Plus - Return on Investments	1,182,623
Less - Benefit and Related Payments	(5,010,139)
Less - Other Expenses	(86,198)
Total Actuarial Value - Current Valuation	$ 28,287,484

The Return on Investment on the Actuarial Value of Assets for the Fund was Approximately 4.0% Net of Administrative Expenses.

The Actuarial Value of Assets incorporates portions of gains and losses over multiple years.

HISTORICAL ASSET PERFORMANCE

The chart below shows the historical rates of return on plan assets for both Market Value of Assets and Actuarial Value of Assets.

	Market Value	Actuarial Value
First Preceding Year	0.2%	4.0%
Second Preceding Year	6.1%	5.4%

The returns on assets shown above were calculated based on the annual return on investment for the year, as a percentage of the average value of the assets for the year.

For purposes of determining the average value of assets during the year, the ending market value of assets has been adjusted to net out to the portion related to the investment returns themselves. All other cash flows are included.

For purposes of determining the annual return on investment we have adjusted the figures shown on the preceding pages. The figures shown on the preceding pages are net of investment expenses. We have made an additional adjustment to net out administrative expenses. Netting out administrative expenses allows us to capture returns for the year that can be used to make benefit payments as part of the ongoing actuarial process.

The adjustment we make is for actuarial reporting purposes only. By netting out administrative expenses and capturing return dollars that are available to pay benefits, it provides us a comparison to the estimated rate of return on assets, but does not provide a figure that would be consistent with the return rates that are determined by other parties. Therefore this calculated rate of return should not be used to analyze investment performance of the Fund or the performance of the investment professionals.

RECOMMENDED CONTRIBUTION DETAIL

ACTUARIAL ACCRUED LIABILITY

	Prior Valuation	Current Valuation
Active Employees	$ 24,460,162	$ 22,943,576
Inactive Employees		
Terminated Employees - Vested	-	-
Retired Employees	45,656,453	50,229,139
Disabled Employees	7,482,766	8,761,602
Other Beneficiaries	3,509,731	5,244,552
Total Inactive Employees	56,648,950	64,235,293
Total Actuarial Accrued Liability	$ 81,109,112	$ 87,178,869

The Total Actuarial Liability has Increased $6,069,757 from Prior Valuation.

FUNDED STATUS

	Prior Valuation	Current Valuation
Total Actuarial Accrued Liability	$ 81,109,112	$ 87,178,869
Total Actuarial Value of Assets	28,245,379	28,287,484
Unfunded Actuarial Accrued Liability	$ 52,863,733	$ 58,891,385
Total Market Value of Assets	$ 27,428,623	$ 26,431,261
Percent Funded		
Actuarial Value of Assets	34.82%	32.45%
Market Value of Assets	33.82%	30.32%

Funded Percentage as of the Valuation Date is Subject to Volatility on Assets and Liability in the Short-Term.

RECOMMENDED CONTRIBUTION DETAIL

Development of the Employer Normal Cost

	Prior Valuation	Current Valuation
Total Normal Cost	$ 1,125,075	$ 923,098
Estimated Employee Contributions	(414,001)	(402,463)
Employer Normal Cost	$ 711,074	$ 520,635

At a 100% Funding Level, the Normal Cost Contribution is Still Required.

Normal Cost as a Percentage of Expected Payroll

	Prior Valuation	Current Valuation
Expected Payroll	$ 4,378,650	$ 4,256,620
Employee Normal Cost Rate	9.455%	9.455%
Employer Normal Cost Rate	16.24%	12.23%
Total Normal Cost Rate	25.69%	21.69%

Ideally the Employer Normal Cost Rate will Remain Stable.

Contribution Recommendation

	Prior Valuation	Current Valuation
Employer Normal Cost*	$ 789,829	$ 585,252
Amortization of Unfunded Accrued Liability/(Surplus)	3,784,345	4,305,421
Funding Requirement	$ 4,574,174	$ 4,890,673

*Employer Normal Cost Contribution includes interest through the end of the year.

The Recommended Contribution has Increased 6.9% from the Prior Valuation (See the Management Summary).

ACTUARIAL METHODS – RECOMMENDED CONTRIBUTION

Actuarial Valuation Date	January 1, 2016
Data Collection Date	December 31, 2015
Actuarial Cost Method	Entry Age Normal (Level % Pay)
Amortization Method	Level Dollar (Closed)
Amortization Target	90% Funded in year 2040
Asset Valuation Method	5-Year Smoothed Market Value

The contribution and benefit values of the Pension Fund are calculated by applying actuarial assumptions to the benefit provisions and census information furnished, using the actuarial cost methods described. The actuarial cost and amortization method allocates the projected obligations of the plan over the working lifetimes of the plan participants.

The recommended contribution amount shown in this report is based on the methods summarized above. The Actuarial Funding Policies section of the report will include a more detail description of the funding methods being used.

The Actuarial Funding Methods are meant to provide a systematic process for determining contributions on an annual basis. The methods do not impact the expectation of future benefit payments. The methods only impact the way dollars are contributed towards future benefit payments.

Different Actuarial Funding Methods may achieve funding goals with differing levels of success. Certain methods are more efficient and more stable on an annual basis.

ILLINOIS STATUTORY MINIMUM CONTRIBUTION

Minimum Contribution
Methods and Assumptions

STATUTORY MINIMUM CONTRIBUTION

	Minimum Contribution
Contribution Requirement	$3,612,042
Expected Payroll	$4,256,620
Contribution Requirement as a Percent of Expected Payroll	84.86%

FUNDED STATUS – STATUTORY MINIMUM

	Minimum Contribution
Normal Cost	$1,214,036
Market Value of Assets	$26,431,261
Actuarial Value of Assets	$28,287,484
Actuarial Accrued Liability	$80,100,356
Unfunded Actuarial Accrued Liability	$51,812,872
Percent Funded	
Actuarial Value of Assets	35.32%
Market Value of Assets	33.00%

ILLINOIS STATUTORY MINIMUM CONTRIBUTION

The Statutory Minimum Contribution is based on funding methods and funding parameters in the Illinois statutes for pension funding. The resulting contribution is lower than the recommended contribution for the current plan year. The lower contribution amount is not recommended because it represents a deferral of contributions when compared to the recommended contribution method.

Actuarial Funding methods for pensions are best applied to provide a balance between the long-term goals of a variety of stakeholders:

1. Beneficiaries – the fund participants are interested in benefit security and having the dollars there to pay benefits when retired.

2. Employers – cost control and cost stability over the long-term

3. Taxpayers – paying for the services they are receiving from active employees

The Statutory Minimum Contribution methods are not intended to provide a better system in any of the above categories long-term. The parameters are not recommended for a long-term funding strategy.

The Statutory Minimum methods put into place in 2011 were intended to provide short-term budget relief for Employer contributions. An employer using the Statutory Minimum parameters for current funding should view the contributions as short-term relief. Our recommendation in this situation is for a pension fund and an employer to work towards a long-term funding strategy that better achieves the long-term funding goals, over a period that does not exceed 3-5 years.

The Securities and Exchange Commission in 2013 used the phrase “Statutory Underfunding” to describe situations where contributions appear to be more manageable in the short-term, but set up future contribution requirements that are less likely to be manageable.

ACTUARIAL METHODS – ILLINOIS STATUTORY MINIMUM CONTRIBUTION

Actuarial Valuation Date	January 1, 2016
Data Collection Date	December 31, 2015
Actuarial Cost Method	Projected Unit Credit (Level % of Pay)
Amortization Method	Level % Pay (Closed)
Remaining Amortization Period	90% Funded in year 2040
Asset Valuation Method	5-Year Smoothed Market Value

The contribution and benefit values of the Pension Fund are calculated by applying actuarial assumptions to the benefit provisions and census information furnished, using the actuarial cost methods described. The actuarial cost and amortization method allocates the projected obligations of the plan over the working lifetimes of the plan participants.

The recommended contribution amount shown in this report is based on the methods summarized above. The Actuarial Funding Policies section of the report will include a more detail description of the funding methods being used.

The Actuarial Funding Methods are meant to provide a systematic process for determining contributions on an annual basis. The methods do not impact the expectation of future benefit payments. The methods only impact the way dollars are contributed towards future benefit payments.

Different Actuarial Funding Methods may achieve funding goals with differing levels of success. Certain methods are more efficient and more stable on an annual basis.

ACTUARIAL VALUATION DATA

Active Employees
Retirees and Beneficiaries

ACTIVE EMPLOYEES

	Prior Valuation	Current Valuation
Vested	45	35
Nonvested	16	23
Total Active Employees	61	58
Total Payroll	$ 4,303,342	$ 4,183,410

INACTIVE EMPLOYEES

	Prior Valuation	Current Valuation
Terminated Employees - Vested	0	0
Retired Employees	63	61
Disabled Employees	15	15
Other Beneficiaries	26	31
Total Inactive Employees	104	107

SUMMARY OF BENEFIT PAYMENTS

	Prior Valuation	Current Valuation
Terminated Employees - Vested	$ -	$ -
Retired Employees	296,172	301,964
Disabled Employees	49,201	55,037
Other Beneficiaries	49,291	62,390
Total Inactive Employees	$ 394,664	$ 419,391

Benefits shown for terminated employees under deferred retirement are not currently in pay status.

ACTUARIAL FUNDING POLICIES

Actuarial Cost Method
Financing Unfunded Accrued Liability
Actuarial Value of Assets

ACTUARIAL FUNDING POLICIES

ACTUARIAL COST METHOD

The actuarial cost method allocates the projected obligations of the plan over the working lifetimes of the plan participants.

In accordance with the Pension Fund's Funding Policy the actuarial cost method for the recommended contribution basis is Entry Age Normal (Level Percent of Pay). The Entry Age Normal Cost Method is a method under which the actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age. The portion of this actuarial present value allocated to a valuation year is called normal cost. The portion of the actuarial present value not provided at a valuation date by the actuarial present value of future normal costs is called the actuarial liability.

FINANCING UNFUNDED ACTUARIAL ACCRUED LIABILITY

The Unfunded Actuarial Accrued Liability may be amortized over a period either in level dollar amounts or as a level percentage of projected payroll.

In accordance with the Pension Fund's Funding Policy for the recommended contribution the unfunded actuarial accrued liabilities are amortized by level dollar contributions to 90% funding target over the remaining 25 future years including the municipality's fiscal year 2040.

ACTUARIAL VALUE OF ASSETS

The pension fund is an ongoing plan. The employer wishes to smooth the effect of volatility in the market value of assets on the annual contribution. The Actuarial Value of Assets is equal to the Market Value of Assets with unanticipated gains/losses recognized over five years.

The asset valuation method is intended to create an Actuarial Value of Assets that remains reasonable in relation to the Market Value of Assets over time. The method produces results that can fall above and below the Market Value of Assets. The period of recognition is short.

It is intended that the period of recognition is short enough to keep the Actuarial Value of Assets within a decent range of the Market Value. The employer has not placed a specific corridor around the Market Value of Assets.

ACTUARIAL ASSUMPTIONS

Nature of Actuarial Calculations
Actuarial Assumptions in the Valuation Process
Actuarial Assumptions Utilized

ACTUARIAL ASSUMPTIONS

NATURE OF ACTUARIAL CALCULATIONS

The results documented in this report are estimates based on data that may be imperfect and on assumptions about future events. Certain plan provisions may be approximated or deemed immaterial, and, therefore, are not valued. Assumptions may be made about participant data or other factors. Reasonable efforts were made in this valuation to ensure that significant items in the context of the actuarial liabilities or costs are treated appropriately, and not excluded or included inappropriately.

Actual future experience will differ from the assumptions used in the calculations. As these differences arise, the expense for accounting purposes will be adjusted in future valuations to reflect such actual experience.

A range of results different from those presented in this report could be considered reasonable. The numbers are not rounded, but this is for convenience only and should not imply precision which is not inherent in actuarial calculations.

ACTUARIAL ASSUMPTIONS IN THE VALUATION PROCESS

The contribution and benefit values of the Pension Fund are calculated by applying actuarial assumptions to the benefit provisions and census information furnished, using the actuarial cost methods described in the previous section.

The principal areas of financial risk which require assumptions about future experience are:

- Long-term Rates of Investment Return
- Patterns of Pay Increases for Members
- Rates of Mortality Among Members and Beneficiaries
- Rates of Withdrawal of Active Members
- Rates of Disability Among Members
- Age Patterns of Actual Retirement

Actual experience of the Pension Fund will not coincide exactly with assumed experience. Each valuation provides a complete recalculation of assumed future experience and takes into account all past differences between assumed and actual experience. The result is a continual series of adjustments to the computed contribution requirement.

From time to time it becomes appropriate to modify one or more of the assumptions, to reflect experience trends (but not random year-to-year fluctuations).

Details behind the selection of the actuarial assumptions can be found in the assumption document provided to the client. The client has reviewed and approved the assumptions as a reasonable expectation of the future anticipated experience under the plan.

ACTUARIAL ASSUMPTIONS UTILIZED

Expected Return on Investments 7.00% net of adminstrative expenses.

CPI-U 2.00%

Total Payroll Increases 3.50%

Individual Pay Increases 3.00% - 27.87%

Individual salary increases include a long-term average increase for inflation, average annual increases for promotions, and any additional increases for a step program. Sample Rates as Follows:

Service	Rate	Service	Rate
0	27.87%	8	5.00%
1	5.00%	9	5.00%
2	5.00%	10	5.00%
3	5.00%	15	5.00%
4	5.00%	20	3.00%
5	5.00%	25	3.00%
6	5.00%	30	3.00%
7	5.00%	35	3.00%

Retirement Rates 100% of the L&A Assumption Study Cap Age 65 for Firefighters 2016. Sample Rates as Follows:

Age	Rate	Age	Rate
50	0.068	53	0.111
51	0.080	54	0.132
52	0.094	55	0.155

Withdrawal Rates

100% of the L&A Assumption Study for Firefighters 2016. Sample Rates as Follows:

Age	Rate	Age	Rate
25	0.046	40	0.010
30	0.034	45	0.002
35	0.022	50	0.000

Disability Rates

100% of the L&A Assumption Study for Firefighters 2016. Sample Rates as Follows:

Age	Rate	Age	Rate
25	0.000	40	0.003
30	0.000	45	0.005
35	0.001	50	0.009

Mortality Rates

L&A Assumption Study for Firefighters 2016. Sample Male Rates as Follows:

Age	Rate	Age	Rate
25	0.00059	40	0.00077
30	0.00056	45	0.00117
35	0.00065	50	0.00203

L&A Assumption Study for Firefighters 2016. Sample Female Rates as Follows:

Age	Rate	Age	Rate
25	0.00018	40	0.00042
30	0.00024	45	0.00069
35	0.00032	50	0.00119

Mortality improvement to the valuation date using MP 2014 is assumed. Active mortality (pre-retirement) and disabled mortality follow RP 2014.

Married Participants

80% of Active Participants are Assumed to be Married. Female Spouses are Assumed to be 3 Years Younger than Male Spouses.

SUMMARY OF PRINCIPAL PLAN PROVISIONS

Establishment of the Fund
Administration
Employee Contributions
Normal Retirement Pension Benefits
Pension to Survivors
Termination Benefits
Disability Benefits

SUMMARY OF PRINCIPAL PLAN PROVISIONS

ESTABLISHMENT OF THE FUND

The Firefighters' Pension Fund is established and administered as prescribed by "Article 4. Firefighters' Pension Fund – Municipalities 500,000 and Under" of the Illinois Pension Code.

ADMINISTRATION

The Firefighters' Pension Fund is administered by a Board of Trustees located in each municipality maintaining a pension fund for its firefighters. Its duties are to control and manage the pension fund, to hear and determine applications for pensions, to authorize payment of pensions, to establish rules, to pay expenses, to invest funds, and to keep records.

EMPLOYEE CONTRIBUTIONS

Employees contribute 9.455% of salary.

NORMAL RETIREMENT PENSION BENEFIT

Hired Prior to January 1, 2011

Eligibility: Age 50 with at least 20 years of creditable service and no longer a firefighter.

Benefit: 50% of final salary is payable commencing at retirement for 20 years of service. An additional 2.5% of final salary is added for each additional year of service (prorated monthly) in excess of 20 years of service (not to exceed 75% of final salary). "Final salary" is based on the pay rate for the firefighter at retirement.

Annual Increase in Benefit: A firefighter is entitled to an initial pension increase equal to 1/12 of 3% of the original monthly benefit for each full month that has passed since the pension began. The initial increase date will be the later of the first day of the month following the attainment of age 55, or the first anniversary of the date of retirement. Subsequent increases of 3% of the current pension amount will be provided in each January thereafter.

NORMAL RETIREMENT PENSION BENEFIT - CONTINUED

Hired on or After January 1, 2011

Eligibility: Age 55 with at least 10 years of creditable service and no longer a firefighter.

Benefit: 2.5% of final average salary for each year of service is payable at retirement (not to exceed 75% of final average salary). “Final average salary” is determined by dividing the highest total salary over 96 consecutive months of service in the last 120 months of service by the total number of months of service in the period. Annual salary for this purpose will not exceed $106,800, indexed by the lesser of 3% or ½ of the CPI-U for the 12 months ending with the September preceding each November 1. The salary cap will not decrease.

Annual Increase in Benefit: The initial increase date will be the January 1st following the attainment of age 60, or the first anniversary of the date of retirement. Subsequent increases will occur on each subsequent January 1st. The first increase and subsequent increases will be the lesser of 3% of the original benefit or ½ of the CPI-U for the 12 months ending with the September preceding each November 1, applied to the original pension amount.

EARLY RETIREMENT PENSION BENEFIT

Hired Prior to January 1, 2011

None

Hired on or After January 1, 2011

Eligibility: Age 50 with at least 10 years of creditable service and no longer a firefighter.

Benefit: The normal retirement pension benefit reduced by ½ of 1% for each month that the firefighter’s age is under age 55.

Annual Increase in Benefit: The initial increase date will be the January 1st following the attainment of age 60, or the first anniversary of the date of retirement. Subsequent increases will occur on each subsequent January 1st. The first increase and subsequent increases will be the lesser of 3% of the original benefit or ½ of the CPI-U for the 12 months ending with the September preceding each November 1, applied to the original pension amount.

PENSION TO SURVIVORS

Hired Prior to January 1, 2011

Death - Line of Duty

Surviving spouse is entitled to 100% of the salary attached to the rank of the firefighter on the last day of service, payable immediately.

Death - Non-Duty

Current Pensioners (Including Disabled Pensioners): Surviving spouse to receive continuation of the pension at the time of death or 54% of pensionable salary at the time pension began, if greater.

Active Employee with 20+ Years of Service: Surviving spouse is entitled to the full pension earned by the firefighter at the time of death, or 54% of the pensionable salary at death if greater.

Active Employee with 10-20 Years of service: Surviving spouse is entitled to 54% of the salary attached to the rank of the firefighter on the last day of service, payable immediately

Annual Increase in Benefit: None.

Hired on or After January 1, 2011

Death - Line of Duty

Surviving spouse is entitled to 100% of the salary attached to the rank of the firefighter on the last day of service, payable immediately.

Death - Non-Duty

Current Pensioners (Including Disabled Pensioners), Active Employee with 20+ Years of Service, and Active Employee with 10-20 Years of service: Surviving spouse to receive 66 ⅔% of the firefighter's earned pension at the date of death.

Annual Increase in Benefit: The initial increase date will be the January 1st after the attainment of age 60 by the recipient of the survivor's pension. Subsequent increases will occur on each subsequent January 1st. The first increase and subsequent increases will be the lesser of 3% of the original benefit or ½ of the CPI-U for the 12 months ending with the September preceding each November 1, applied to the original survivor's pension amount.

TERMINATION BENEFIT

Hired Prior to January 1, 2011

Eligibility: At least 10 years but less than 20 years of creditable service.

Benefit: An accrual factor times final salary for each year of service is payable beginning at age 60. "Accrual Factor" is a factor of 1.5% at 10 years of service, increasing ratably up to 2.4% at 19 years of service. "Final salary" is based on the pay rate for the firefighter on the date of separation.

Annual Increase in Benefit: A firefighter will receive an initial increase of 3% on the first anniversary of the date of start of payments. Subsequent increases of 3% of the current pension amount will be provided in each January thereafter.

Hired on or After January 1, 2011

Eligibility: At least 10 years but less than 20 years of creditable service.

Benefit: An accrual factor times final salary for each year of service is payable beginning at age 60. "Accrual Factor" is a factor of 1.5% at 10 years of service, increasing ratably up to 2.4% at 19 years of service. "Final salary" is based on the greater of salary during the last year of service prior to termination of employment or the pay rate for the firefighter at termination of employment. Annual salary for this purpose will not exceed $106,800, indexed by the lesser of 3% or ½ of the CPI-U for the 12 months ending with the September preceding each November 1. The salary cap will not decrease.

Annual Increase in Benefit: The initial increase date will be the January 1st following the first payment. Subsequent increases will occur on each subsequent January 1st. The first increase and subsequent increases will be the lesser of 3% of the original benefit or ½ of the CPI-U for the 12 months ending with the September preceding each November 1, applied to the original pension amount.

DISABILITY BENEFIT

Hired Prior to January 1, 2011

Eligibility: Disability (duty; or non-duty with 7 years of service).

Benefit: A firefighter who becomes disabled on duty is entitled to receive a pension equal to the greatest of 65% of final salary or the pension they would have been entitled to upon retirement at the time of disability. For a non-duty disability, the firefighter is entitled to 50% of final salary. “Final salary” is based on the pay rate for the firefighter at retirement.

Annual Increase in Benefit: The initial increase date will be the January 1st following the attainment of age 60. Subsequent increases will occur on each subsequent January 1st. The first increase is 3% of the original benefit for each full year that has passed since the pension began. Subsequent increases are 3% of the original pension benefit amount.

Hired on or after January 1, 2011

Eligibility: Disability (duty; or non-duty with 7 years of service).

Benefit: A firefighter who becomes disabled on duty is entitled to receive a pension equal to the greater of 65% of final salary or the pension they would have been entitled to upon retirement at the time of disability. For a non-duty disability, the firefighter is entitled to 50% of final salary. “Final salary” is based on the pay rate for the firefighter at last day of service.

Annual Increase in Benefit: The initial increase date will be the January 1st following the attainment of age 60. Subsequent increases will occur on each subsequent January 1st. The first increase and subsequent increases will be the lesser of 3% of the original benefit or ½ of the CPI-U for the 12 months ending with the September preceding each November 1, applied to the original pension amount.

GLOSSARY OF TERMS

GLOSSARY OF TERMS

Actuarial Accrued Liability **–**The actuarial present value of future benefits based on employees' service rendered to the measurement date using the selected actuarial cost method. It is that portion of the Actuarial Present Value of plan benefits and expenses allocated to prior years of employment. It is not provided for by future Normal Costs.

Actuarial Cost Method **–** The method used to allocate the projected obligations of the plan over the working lifetimes of the plan participants.

Actuarial Value of Asset **–** The value of the assets used in the determination of the Unfunded Actuarial Accrued Liability. The Actuarial Value of Assets is related to Market Value of Assets, with adjustments made to spread unanticipated gains and losses for a given year over a period of several years. Actuarial Value of Assets is generally equally likely to fall above or below the Market Value of Assets, and generally does not experience as much volatility over time as the Market Value of Assets.

Asset Valuation Method **–** A valuation method designed to smooth random fluctuations in asset values. The objective underlying the use of an asset valuation method is to provide for the long-term stability of employer contributions.

Funding Policy **–** A set of procedures for a Pension Fund that outlines the "best practices" for funding the pension benefits based on the goals of the plan sponsor. A Funding Policy discusses items such as assumptions, Actuarial Cost Method, assets, and other parameters that will best help the sponsor meet their goal of working in the best interest of the plan participant.

Market Value of Assets **–** The value of the cash, bonds, securities and other assets held in the pension trust as of the measurement date.

Normal Cost **–**The present value of future benefits earned by employees during the current fiscal year. It is that portion of the Actuarial Present Value of benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.

Unfunded Actuarial Accrued Liability **–** The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets. The Unfunded Actuarial Accrued Liability is amortized over a period either in level dollar amounts or as a level percentage of projected payroll

Lauterbach & Amen, LLP
27W457 Warrenville Road
Warrenville, IL 60555-3902

Actuarial Valuation
as of January 1, 2016

MOLINE POLICE PENSION FUND

GASB 67/68 Reporting

LAUTERBACH & AMEN, LLP

Actuarial GASB Disclosures Statements 67 and 68

Lauterbach & Amen, LLP

CERTIFIED PUBLIC ACCOUNTANTS

GASB 67: MOLINE POLICE PENSION FUND

Fiscal Year Ending: December 31, 2015
Actuarial Valuation Date: January 1, 2016
Measurement Date: **December 31, 2015**

GASB 68: CITY OF MOLINE, ILLINOIS

Fiscal Year Ending: December 31, 2015
Actuarial Valuation Date: January 1, 2016
Measurement Date: **December 31, 2015**

Submitted by:

Lauterbach & Amen, LLP
630.393.1483 Phone
www.lauterbachamen.com

Contact:

Todd A. Schroeder
April 3, 2016

LAUTERBACH & AMEN, LLP

TABLE OF CONTENTS

TABLE OF CONTENTS

Lauterbach & Amen, LLP
CERTIFIED PUBLIC ACCOUNTANTS
27W457 WARRENVILLE RD. • WARRENVILLE, ILLINOIS 60555
PHONE 630.393.1483 • FAX 630.393.2516
www.lauterbachamen.com

ACTUARIAL CERTIFICATION

This certification provides supplemental information as required by the Governmental Accounting Standards Board. The enclosed schedules were prepared by the undersigned to provide general information to assist in the preparation of the Annual Financial Report. The assumptions and methods used in the preparation of this disclosure meet the parameters set for the disclosures presented in the financial section as required by the Governmental Accounting Standards Board. Additional information is also provided solely to assist the auditors in preparation of the required footnote disclosures.

The results in this report are based on information and data submitted by the Moline Police Pension Fund. We did not prepare the actuarial valuations for the years prior to January 1, 2015. Those Valuations were prepared by other actuaries whose reports have been furnished to us, and our disclosures are based upon those reports. An audit of the information was not performed, but high-level reviews were performed for general reasonableness as appropriate based on the purpose of the valuation. The accuracy of the results is dependent upon the accuracy and completeness of the underlying information. The results of the actuarial valuation and these supplemental disclosures rely on the information provided.

The valuation results summarized involve actuarial calculations that require assumptions about future events. The Moline Police Pension Fund selected certain assumptions, while others were the result of guidance and/or judgment. We believe that the assumptions used in the valuation are reasonable and appropriate for the purposes for which they have been used.

To the best of our knowledge, all calculations are in accordance with the applicable funding requirements, and the procedures followed and presentation of results conform to generally accepted actuarial principles and practices. The undersigned consultant of Lauterbach & Amen, LLP with actuarial credentials meets the Qualification Standards of the American Academy of Actuaries to render this Actuarial Certification. There is no relationship between the Moline Police Pension Fund and Lauterbach & Amen, LLP that impairs our objectivity.

Respectfully Submitted,

LAUTERBACH & AMEN, LLP

Todd A. Schroeder

Todd A. Schroeder, EA

PENSION FUND NET POSITION

Statement of Net Position
Statement of Changes in Net Position

STATEMENT OF FIDUCIARY NET POSITION

	2015	2014
Assets		
Cash and Cash Equivalents	$ 1,581,919	$ 1,155,815
Total cash	1,581,919	1,155,815
Receivables:		
Total Receivables	-	-
Investments:		
Fixed Income	11,592,406	11,050,889
Mutual Funds	21,151,059	21,950,178
Total Investments	32,743,464	33,001,067
Total Assets	34,325,384	34,156,882
Liabilities		
Payables:		
Expenses Due/Unpaid	-	-
Total Liabilities	-	-
Net Position Restricted for Pensions	$ 34,325,384	$ 34,156,882

The Fiduciary Net Position of the Fund shown above is intended to be in accordance with GAAP and Government Accounting Standards Board rules. The Fair Market Value of Investments has been provided by the reporting entity, and the results are being audited by an independent auditor. The level of the assets has been reviewed for reasonableness, but we make no representation as to the accuracy of the measurement of the fair market value of the investments. The assets for 2015 are based on audited financial statements.

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION

		2015
Additions		
Contributions		
Employer	$	3,523,625
Other		27,320
Member		574,324
Total Contributions		4,125,269
Investment Income		
Net Appreciation in Fair Value of Investments, Interest and Dividends		126,426
Less Investment Expense		(92,614)
Net Investment Income		33,812
Total Additions		4,159,080
Deductions		
Benefit payments and Refunds of Member Contributions		3,947,961
Administrative Expense		42,617
Total Deductions		3,990,579
Net Increase in Net Position		168,502
Net Position Restricted for Pensions		
Beginning of Year		34,156,882
End of Year	$	34,325,384

The Changes in Fiduciary Net Position of the Fund shown above is intended to be in accordance with GAAP and Government Accounting Standards Board rules. The changes have been provided by the reporting entity, and the results are being audited by an independent auditor. The changes have been reviewed for reasonableness, but we make no representation as to the accuracy of the measurement of the fair market value of the investments. The assets for 2015 are based on audited financial statements.

ACTUARIAL PENSION LIABILITY INFORMATION

Statement of Total Pension Liability
Statement of Changes in Total Pension Liability
Statement of Changes in Net Pension Liability
Deferred Outflows and Inflows of Resources

STATEMENT OF TOTAL PENSION LIABILITY

	2015	2014
Active Employees	$ 30,297,757	32,643,495
Inactive Employees		
Terminated Employees - Vested	1,496,985	777,651
Retired Employees	46,866,385	38,312,161
Disabled Employees	3,641,303	2,345,745
Other Beneficiaries	3,985,585	3,078,977
Total Inactive Employees	55,990,258	44,514,534
Total Pension Liability	$ 86,288,015	$ 77,158,029

The Total Pension Liability (TPL) shown is dependent on several factors such as plan provisions and actuarial assumptions used in the report. In addition, the calculation of the TPL may be dependent on the Fiduciary Net Position shown on the prior page. Changes in the Fiduciary Net Position due to any factor including adjustment on final audit could change the TPL. The dependence of the TPL on the Net Position is due to the role of the Net Position (and projected Net Position) on the determination of the discount rate used for the TPL.

The TPL has been determined for GASB 67/68 reporting purposes only. The resulting TPL is intended to be used in the financial statement reporting of the fund and/or the Employer. The resulting liability is not intended to be a representation of the fund liability for other purposes, including but not limited to determination of cash funding requirements and recommendations. The TPL is based on data as of the Data Date shown in this report. The TPL has been determined as of the Actuarial Valuation Date and based on the assumptions shown in this report, and adjusted to the Measurement Date as needed.

STATEMENT OF CHANGES IN TOTAL PENSION LIABILITY

		2015
Changes in Total Pension Liability		
Service Cost	$	992,579
Interest		5,262,883
Changes of Benefit Terms		-
Differences Between Expected and Actual Experience		1,680,849
Changes in Assumptions		5,141,636
Benefit Payments and Refunds		(3,947,961)
Net Change in Total Pension Liability	$	9,129,986
Total Pension Liability - Beginning		77,158,029
Total Pension Liability - Ending (a)	$	86,288,015
Plan Fiduciary Net Position - Ending (b)	$	34,325,384
Employer's Net Pension Liability - Ending (a) - (b)	$	51,962,631
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability		40%
Covered-Employee Payroll	$	6,681,186
Employer's Net Pension Liability as a Percentage of Employee Payroll		778%

The plan Fiduciary Net Position was detailed in the prior section of this report. The employer's Net Pension Liability is the excess of the Total Pension Liability over the plan Fiduciary Net Position.

Total Pension Liability may be dependent on the Net Position of the fund. Changes in the Net Position could change the determination of the Total Pension Liability. Any changes in Net Position including adjustments on final audit can have an impact on Net Pension Liability that extends beyond the dollar-for-dollar change in Net Position.

Covered employee payroll is based on total W-2 pay for the fund members during the fiscal year.

STATEMENT OF CHANGES IN NET PENSION LIABILITY

The table below illustrates the change in the Net Pension Liability (NPL) from the prior Measurement Date to the current Measurement Date. Under Statement 68, the difference between the NPL from the prior measurement date to the current measurement date should be recognized as an expense, unless permitted to be recognized as a deferred outflow or inflow of resources.

	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances Beginning at 01/01/15	77,158,029	34,156,882	43,001,147
Changes for the year:			
Service Cost	992,579	-	992,579
Interest	5,262,883	-	5,262,883
Actuarial Experience	1,680,849	-	1,680,849
Assumptions Changes	5,141,636	-	5,141,636
Plan Changes	-	-	-
Contributions - Employer	-	3,523,625	(3,523,625)
Contributions - Employee	-	574,324	(574,324)
Contributions - Other	-	27,320	(27,320)
Net Investment Income	-	33,812	(33,812)
Benefit payments, including refunds	(3,947,961)	(3,947,961)	-
Administrative Expense	-	(42,617)	42,617
Net Changes	9,129,986	168,502	8,961,484
Balances Beginning at 12/31/15	$ 86,288,015	$ 34,325,384	$ 51,962,631

The changes in total pension liability above are described on the prior page. The plan fiduciary net position was detailed in the prior section of this report. The employer's Net Pension Liability is the excess of the Total Pension Liability over the plan fiduciary net position.

Deferred Outflows and Inflows of Resources

The table below shows the cumulative amounts to be shown as deferred outflows and inflows of resources. Changes in total pension liability related to the difference in actual and expected experience, or changes in assumptions regarding future events, are recognized in pension expense over the expected remaining service life of all employees (active and retired) in the pension fund. Differences in projected and actual earnings over the measurement period are recognized over a 5 year period. Amounts not yet recognized are summarized below:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences Between Expected and Actual Experience	$ 1,407,540	$ -
Changes of Assumptions	4,305,597	-
Net Difference Between Projected and Actual Earnings on Pension Plan Investments	1,861,572	-
Contributions Subsequent to the Measurement Date*	-	-
Total	$ 7,574,709	$ -

* Contributions subsequent to the measurement date may be recognized as a reduction to the NPL. The amount is not known as of the date of this report. Subsequent to the measurement date, the following amounts will be recognized in pension expense in the upcoming years:

2016	$ 1,574,742
2017	1,574,742
2018	1,574,742
2019	1,574,738
2020	1,109,348
Thereafter	166,397

Deferred Outflows and Inflows of Resources - Details

The table below shows the annual detail amounts that have been summarized on the prior page. Under Statement 68, the level of detail shown on the prior page is sufficient for financial statement reporting. The detail shown below is primarily for tracking purposes.

Pension Expense Source	Date Established	Initial Period	Initial Balance	Remaining Period	12/31/2015 Expense Recognized	12/31/2015 Deferred Balance
Asset (Gain)/Loss	12/31/2015	5.00	2,326,966	5.00	465,394	1,861,572
Change in Assumptions (Gain)/Loss	12/31/2015	6.15	5,141,636	6.15	836,039	4,305,597
Actuarial (Gain)/Loss	12/31/2015	6.15	1,680,849	6.15	273,309	1,407,540
Total			9,149,451		1,574,742	7,574,709

Each detail item in the chart above was established as of the Fiscal Year End shown and the full amount deferred has been determined as of that time. Any events that occur is subsequent fiscal years do not have an impact on the prior fiscal year. The bases are established independently each year.

PENSION EXPENSE DEVELOPMENT

The table below displays the pension expense development for the current year. The pension expense includes items that change the Net Pension Liability from one year to the next, netted out for amounts that are deferred under GASB pronouncement, plus any amounts that are being recognized that were deferred previously.

See below for development of the pension expense:

	2015
Pension Expense/(Income) Under GASB 68	
Service Cost	$ 992,579
Interest	5,262,883
Plan Changes	-
Contributions - Employee	(574,324)
Contributions - Other	(27,320)
Expected Investment Income	(2,360,778)
Administrative Expense	42,617
Other Changes	-
Intial Pension Expense/(Income)	$ 3,335,658
Recognition of Outflow/(Inflow) of Resources due to Liabilities	1,109,348
Recognition of Outflow/(Inflow) of Resources due to Assets	465,394
Total Pension Expense/(Income)	**$ 4,910,400**

ACTUARIAL ASSUMPTION INFORMATION

Statement of Significant Actuarial Assumptions
Notes on Actuarial Assumptions
Development of the Discount Rate
Sensitivity of the Discount Rate

STATEMENT OF SIGNIFICANT ACTUARIAL ASSUMPTIONS

Actuarial Assumptions (Economic)

Discount Rate used for the Total Pension Liability	7.00%
Long-Term Expected Rate of Return on Plan Assets	7.00%
High Quality 20 Year Tax-Exempt G.O. Bond Rate	3.57%
Projected Individual Salary Increases	3.00% - 5.00%
Projected Increase in Total Payroll	3.50%
Consumer Price Index (Utilities)	2.00%
Inflation Rate Included	2.00%

Actuarial Assumptions (Demographic)

Mortality Table	L&A 2016 Illinois Police Mortality Rates
Retirement Rates	L&A 2016 Illinois Police Retirement Rates Capped at age 65
Disability Rates	L&A 2016 Illinois Police Disability Rates
Termination Rates	L&A 2016 Illinois Police Termination Rates
Percent Married	80.0%

All rates shown in the economic assumptions are assumed to be annual rates, compounded on an annual basis. For more information on the selection of the actuarial assumptions, please see the assumption document prepared for the Fund.

ASSUMPTION CHANGES

The Assumptions were changed from the prior year.

The assumed rate on High Quality 20 Year Tax-Exempt G.O. Bonds was changed from 3.56% to 3.57% for the current year. The underlying index used is The Bond Buyer 20-Bond GO Index as discussed in more detail later in this section. The choice of index is unchanged from the prior year. The rate has been updated to the current fiscal year end based on changes in market conditions as reflected in the Index. The change was made to reflect our understanding of the requirements of GASB under Statement 67 and Statement 68.

The discount rate used in the determination of the Total Pension Liability did not change in the current year. The discount rate is impacted by a couple of metrics. Any change in the underlying High Quality 20 Year Tax Exempt G.O. Bond Rate will impact the blended discount rate.

In addition, changes made that impact the projection of the Net Position of the fund. For example, changes in the formal or informal funding policy can impact the discount rate. Actual changes in the net position from one year to the next can impact the projections as well.

The demographic assumptions were changed to the tables shown on the prior page. The changes were made based on a study of Police Officers and police pension funds in Illinois. The changes are described in the assumption document for the pension fund. The changes were made to better reflect the future anticipated experience of the fund. The assumptions impacted include:

- Mortality Rates
- Mortality Improvement Rates
- Retirement Rates
- Disability Rates
- Termination Rates

NOTES ON ACTUARIAL ASSUMPTIONS

Individual Pay Increases

Individual pay increases include provisions for annual cost of living increases, plus any additional increases in pensionable pay provided (step increases, longevity increases, promotions, educations, etc). Sample rates are as follows:

Service	Rate	Service	Rate
0	5.00%	8	5.00%
1	5.00%	9	5.00%
2	5.00%	10	5.00%
3	5.00%	15	5.00%
4	5.00%	20	3.00%
5	5.00%	25	3.00%
6	5.00%	30	3.00%
7	5.00%		

Demographic Assumptions

Mortality rates are based on the assumption study prepared by Lauterbach & Amen, LLP in 2016. The table combines observed experience of Illinois Police Officers with the RP-2014 mortality table for blue collar workers. Mortality improvements have been made to the valuation date.

Other demographic assumption rates are based on a review of assumptions in the L&A 2016 study for Illinois Police Officers.

POSTEMPLOYMENT BENEFIT CHANGES

Eligibility for postemployment benefit increases is determined based on the Illinois Pension code. Tier 1 Police retirees are provided with an annual 3.0% increase in retirement benefits by statute when eligible. Tier 2 Police retirees are provided postemployment benefit increases based on one-half of the Consumer Price Index (Urban) for the prior September.

The CPI-U for September, 1985 was 108.3. The CPI-U for September, 2015 was 237.9. The average increase in the CPI-U for September, 1985 through September, 2015 was 2.66% (on a compounded basis).

EXPECTED RETURN ON PENSION PLAN INVESTMENTS

The long-term expected rate of return on assets is intended to represent the best estimate of future real rates of return and is shown for each of the major asset classes in the investment policy. The expected rates of return on assets shown here is from the investment professional that works with the pension fund. The best estimate of future real rates of return are developed for each of the major asset classes. Expected inflation is added back in. Adjustment is made to reflect geometric returns.

A summary of the best estimate of future real rates of returns (annual arithmetic average) are included in the table below.

Asset Class	Long-Term Expected Rate of Return	Long-Term Inflation Expectations	Long-Term Expected Real Rate of Return
Government Fixed Income	4.07%	2.09%	1.98%
Domestic	5.39%	2.09%	3.30%
International	1.51%	2.09%	-0.58%
Cash	1.45%	2.09%	-0.64%

Long-term expected real returns under GASB are expected to reflect the period of time that begins when a plan member begins to provide service to the employer and ends at the point when all benefits to the plan member have been paid. The rates provided above are intended to estimate those figures.

The expected inflation rate is 2.09% and is included in the total long-term rate of return on investments. The inflation rate is from the same source as the long-term real rates of return, and is not necessarily reflective of the inflation measures used for other purposes in the report.

Geometric rates of return are equal to arithmetic rates of return when the annual returns exhibit no volatility over time. When arithmetic returns are volatile on a year-to-year basis, the actual realized geometric returns over time will be lower. The higher the volatility, the greater the difference.

MUNICIPAL BOND RATE

The municipal bond rate assumption is based on The Bond Buyer 20-Bond GO Index. The rate shown earlier in the Actuarial Assumption section is the December 30, 2015 rate. The 20-Bond GO Index is based on an average of certain general obligation municipal bonds maturing in 20 years and having an average rating equivalent of Moody's Aa2 and Standard & Poor's AA.

The 20-Bond Index consists of 20 general obligation bonds that mature in 20 years. The average rating of the 20 bonds is roughly equivalent to Moody's Investors Service's Aa2 rating and Standard & Poor's Corp.'s AA.

The indexes represent theoretical yields rather than actual price or yield quotations. Municipal bond traders are asked to estimate what a current-coupon bond for each issuer in the indexes would yield if the bond was sold at par value. The indexes are simple averages of the average estimated yields of the bonds.

DISCOUNT RATE

The discount rate used in the determination of the Total Pension Liability is based on a combination of the expected long-term rate of return on plan investments and the municipal bond rate.

Cash flow projections were used to determine the extent which the plan’s future net position will be able to cover future benefit payments. To the extent future benefit payments are covered by the plan’s projected net position, the expected rate of return on plan investments is used to determine the portion of the net pension liability associated with those payments. To the extent future benefit payments are not covered by the plan’s projected net position, the municipal bond rate is used to determine the portion of the net pension liability associated with those payments.

Projected benefit payments are determined during the actuarial process based on the assumptions. More details on the assumptions are in the prior section. The expected contributions are based on the funding policy of the plan. The funding policy is discussed in more detail in a later section.

SENSITIVITY OF THE DISCOUNT RATE

The Net Pension Liability has been determined using the discount rate listed in the assumption section. Below is a table illustrating the sensitivity of the Net Pension Liability to the discount rate assumption.

	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
Employer Net Pension Liability	$63,784,684	$51,962,631	$42,244,674

The sensitivity of the Net Pension Liability to the discount rate is based primarily on two factors:

1. The duration of the plan's expected benefit payments. Younger plans with benefit payments further in the future will be more sensitive to changes in the discount rate.

2. The funded percentage of the plan (ratio of the net position to the total pension liability). The higher the funded percentage, the higher the sensitivity to the discount rate.

PARTICIPANT DATA

Participant Demographic Data
Expected Future Working Lifetime

PARTICIPANT DEMOGRAPHIC DATA

The chart below summarizes the employee count and payroll as of the Actuarial Valuation Date:

	2015	2014
Inactive Plan Members or Beneficiaries Currently Receiving Benefits	82	77
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	5	4
Active Plan Members	79	79
Total	166	160
Payroll of Active Plan Members	$ 5,553,419	$ 5,416,120

Participant count is shown as of the Actuarial Valuation Date. Pay is the active pensionable pay as of the Actuarial Valuation Date.

EXPECTED FUTURE WORKING LIFETIME

The chart below summarizes the expected future working lifetime of fund members:

	2015	2014
Average Future Working Career (In Years)		
Active Plan Members	12.92	10.21
Inactive Plan Members	0.00	0.00
Total	6.15	5.04

The expected future working lifetime is measured as of the Actuarial Valuation Date and is based on the demographic assumptions used in the preparation of the Actuary's report.

FUNDING POLICY

Formal Funding Policy
Informal Funding Policy

COMPONENTS OF THE ACTUARIALLY DETERMINED CONTRIBUTION

The Actuarially Determined Contribution (ADC) includes the determination of the Normal Cost contribution for active plan members, as well as provision for the payment of unfunded liability.

The actuarial funding method used in the determination of the normal cost and the actuarial liability is the Entry Age Normal Cost method (level percent of pay). The method allocates normal cost contributions by employee over the working career of the employee as a level percent of their pay.

Unfunded liability is the excess of the actuarial liability over the actuarial value of assets. The actuarially determined contribution includes a payment towards unfunded liability existing at the actuarial valuation date. The payment towards unfunded liability is set up as a level dollar payment that is expected to increase during the payment period. The period of repayment as of the Actuarial Valuation Date is 25 years.

The Actuarial Value of Assets smooths gains and losses on the market value of assets over a 5 year period.

Under no circumstances will the Actuarially Determined Contribution be less than the amount determined as the Statutory Minimum Contribution under Illinois statutes.

FORMAL FUNDING POLICY

There is no Formal Funding Policy that exists between the Pension Board and the City at this time.

INFORMAL FUNDING POLICY

In determining the most appropriate informal funding policy, GASB provides the following guidance in the Statement:

> *Application of professional judgment should consider the most recent five-year contribution history of the employers and nonemployer contributing entities as a key indicator of future contributions from those sources and should reflect all other known events and conditions.… the amount of projected cash flows for contributions from employers and nonemployer contributing entities should be limited to an average of contributions from those sources over the most recent five-year period and may be modified based on consideration of subsequent events. For this purpose, the basis for the average (for example, percentage of covered payroll contributed or percentage of actuarially determined contributions made) should be a matter of professional judgment.*

In our review of informal funding policy, the following factors are considered and described herein:

1. The five-year contribution history of the Employer (with a focus on the average contributions from those sources.)

2. All other known events and conditions

3. Consideration of subsequent events.

Five-Year Contribution History of the Employer

Employer contributions (under the informal policy) should be limited to the average over the most recent five years. In determining the basis for the average we reviewed three possibilities: (a) The average dollar contribution; (b) the average percent of pensionable pay; and (c) The average percent of the actuarial determined contribution. Please see the table below for a summary of these values:

Fiscal Year End	Employer Contributions	Most Applicable ADC	% of ADC	Covered Payroll	% of Payroll
12/31/2015	$3,523,625	$3,542,595	99%	$6,681,186	52.74%
12/31/2014	$3,124,517	$2,998,141	104%	$6,338,306	49.30%
12/31/2013	$3,355,739	$2,485,096	135%	$6,298,425	53.28%
12/31/2012	$3,075,321	$2,128,116	145%	$6,230,987	49.36%
12/31/2011	$2,280,805	$2,043,517	112%	$6,197,726	36.80%

The contribution history suggests that the contribution as a percent of the Actuarially Determined Contribution is the most stable contribution, when compared to the other contribution policies reviewed.

Other Known Events and Conditions

GASB has a provision for consideration of any other known events or conditions in the most recent five-year history in applying judgement for the informal funding policy. There are no events or conditions that have been considered in the development of the informal funding policy.

Consideration of Subsequent Events

GASB has a provision for modification based on consideration of subsequent events in development of the informal funding policy. There are no subsequent events that have been considered in the development of the informal funding policy.

Informal Funding Policy – Selected

The informal funding policy that has been determined for future contributions is 118.97% of the Actuarially Determined Contribution. This represents the full future contributions expected to be made.

FUNDING POLICY – OTHER CONSIDERATIONS

Under GASB, the future contribution amount is not intended to include dollars contributed on behalf of future employees. Contributions are only intended to cover contributions towards the Normal Cost of existing employees as of the Actuarial Valuation Date as well as payment of unfunded liability on behalf of the current existing employees. Contributions under the funding policy have been adjusted as necessary to exclude dollars that would be anticipated to be contributed on behalf of future employees hired after the actuarial valuation date.

The contribution level may not pay off the unfunded liability during the active working lifetimes of current employees. In that case contributions will persist beyond the working lifetimes of current employees. To the extent a portion of the above total contribution is anticipated to pay contributions for future employee normal cost, the amount has been netted out. The remaining amount is anticipated to be paid towards the unfunded liability existing for current employees.

The actuarial determined contribution is determined annually based on the parameters previously discussed. The funding methods and procedures are assumed to continue into the future. The tax levy in the next December is assumed to be the actuarially determined contribution. Funding is assumed to go into the fund during the next full fiscal year.

SCHEDULES OF REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Changes in the Net Pension Liability
Schedule of Total Pension Liability and Related Ratios
Schedule of the Actuarially Determined Contribution

SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY

	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
Total Pension Liability										
Service Cost	$ 992,579	1,347,915								
Interest	5,262,883	5,328,053								
Changes of Benefit Terms	-	-								
Differences Between Expected and Actual Experience	1,680,849	-								
Changes in Assumptions	5,141,636	-								
Benefit Payments and Refunds	(3,947,961)	(3,755,330)								
Net Change In Total Pension Liability	9,129,986	2,920,638								
Total Pension Liability - Beginning	77,158,029	74,237,391								
Total Pension Liability - Ending (A)	86,288,015	77,158,029								
Plan Fiduciary Net Position										
Contributions - Employer	3,523,625	3,124,517								
Contributions - Member	574,324	570,452								
Contributions - Other	27,320	-								
Net Investment Income	33,812	2,077,542								
Benefit Payments and Refunds	(3,947,961)	(4,204,026)								
Administrative Expense	(42,617)	(54,848)								
Other	-	41,303								
Net Change in Plan Fiduciary Net Position	168,502	1,554,940								
Plan Fiduciary Net Position - Beginning	34,156,882	32,601,942								
Plan Fiduciary Net Position - Ending (b)	34,325,384	34,156,882								
Employer Net Pension Liability - Ending (a) - (b)	51,962,631	43,001,147								

The current year information was developed in the completion of this report.

SCHEDULE OF TOTAL PENSION LIABILITY AND RELATED RATIO

	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
Total Pension Liability - Ending (a)	$ 86,288,015	$ 77,158,029								
Plan Fiduciary Net Position - Ending (b)	34,325,384	34,156,882								
Employer Net Pension Liability - Ending (a) - (b)	51,962,631	43,001,147								
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	39.78%	44.27%								
Covered-Employee Payroll	6,681,186	6,338,306								
Employer Net Pension Liability as a Percentage of Covered-Employee Payroll	777.75%	678.43%								

Covered employee payroll shown is the W-2 pay for the fiscal year for all fund members.

SCHEDULE OF CONTRIBUTIONS

	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
Actuarially Determined Contribution	$3,542,595	$ 2,981,298								
Contributions in Relation to the Actuarially Determined Contribution	3,523,625	3,124,517								
Contribution Deficiency (excess)	18,970	(143,219)								
Covered-Employee Payroll	6,681,186	6,338,306								
Contributions as a Percentage of Covered-Employee Payroll	52.7%	49.3%								

NOTES TO SCHEDULE OF CONTRIBUTIONS

The actuarially determined contribution shown for the current year is from the December 31, 2013 actuary's report completed by Tepfer Consulting Group, Ltd. for the tax levy recommendation for the December, 2014 tax levy.

GASB METHODS AND PROCEDURES

GASB Methods and Procedures
Methodology for Deferred Outflows and Inflows

GASB METHODS AND PROCEDURES

	Statement 67 Pension Fund Financials	Statement 68 Employer Financials
Fiscal Year End for Reporting	**December 31, 2015**	**December 31, 2015**
Measurement Date	December 31, 2015	December 31, 2015
Actuarial Valuation Date	January 1, 2016	January 1, 2016
Actuarial Valuation - Data Date	December 31, 2015	December 31, 2015
Asset Valuation Method	Market Value	Market Value
Actuarial Cost Method	Entry Age Normal (Level %)	Entry Age Normal (Level %)

Methodology Used in the Determination of Deferred Inflows and Outflows of Resources

Amortization Method	Straight Line	Straight Line
Amortization Period		
Actuarial Experience (TPL)	6.15 Years	6.15 Years
Changes in Assumptions	6.15 Years	6.15 Years
Asset Experience	5.00 Years	5.00 Years

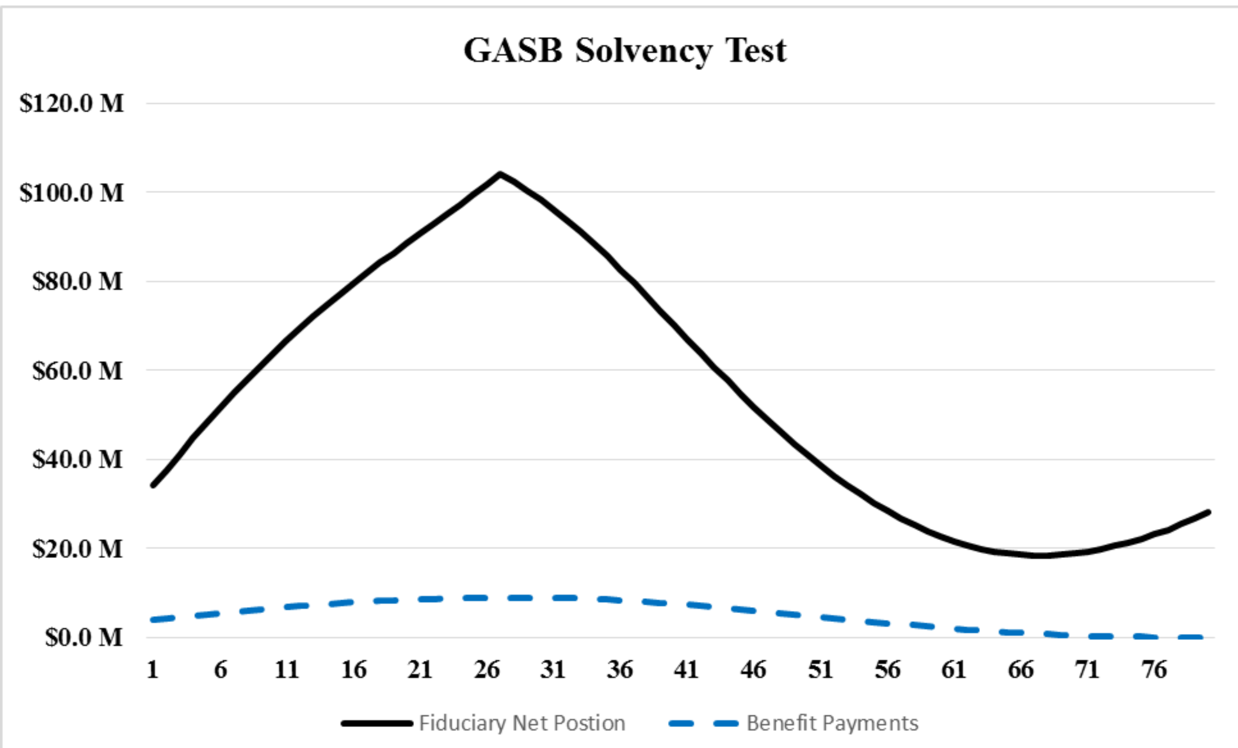
SUPPLEMENTARY TABLES

Projection of Contributions
Projection of the Pension Fund's Fiduciary Net Position
Actuarial Present Value of Projected Benefit Payments

GASB PROJECTIONS – SUMMARY AND PROCEDURE

GASB requires a solvency test to use in the determination of the discount rate each year. The Fiduciary Net Position of the fund is projected forward. To the extent the Net Position of the Fund is anticipated to be greater than $0, benefit payments during that time period are discounted based on the expected rate of return on plan assets.

If the Fiduciary Net Position of the fund is anticipated to go to $0 prior to the payment of future benefit payments for employees who are in the fund as of the Actuarial Valuation Date, then remaining expected future benefit payments are discounted using a high quality Municipal Bond rate as described in the assumption section of the report. Below is a chart with a high level summary of the projections:



The plan's projected net position is expected to cover future benefit payments in full.

GASB PROJECTIONS – LIMITATIONS

Projections of any type require assumptions about future events. The projections required for GASB reporting are deterministic in nature. That means that values are projected forward under one set of assumptions which can be thought of as the average result. Actual results could vary, and projections of one deterministic assumption set do not necessarily provide a framework for making risk management or funding policy decisions. Projections that deal with risk management are outside the scope of this report.

In addition, GASB requirements create results that are specific only to financial statement reporting, and should not be used or interpreted for other purposes. For example, GASB cash flow projections do not entail the total expected cash flows of the pension fund, but rather a subset of cash flows specific to members who are in the pension fund as of the Actuarial Valuation date. While the likely expectation may be that new employees are hired to replace the old, cash flows attributable to their benefits are not considered. Under GASB, when the Net Position goes to $0, that represents only the Net Position for the assets attributable to the current fund members.

GASB also mandates certain assumptions that are made in the projection process. Most notably, future contributions under an informal funding policy. In proposing an informal funding policy, GASB suggests a focus be placed on the average contribution rate over the past 5 years. Assumed contributions noted in this section may be based on the five year average, unless a formal funding policy is in place.

Contributions reflecting informal funding policy are applied under GASB, whether or not the future results dictate a need for more or less contributions. This would not be the case with other uses for projections. Any events that are taken into account (past or future) in the informal funding policy are discussed in the "Funding Policy" section of this report.

The further you look forward with projections, the more sensitive the results are to assumptions. With projections that run out close to 80 years, a small change in an assumption will have a dramatic impact in the look of the projections on the following pages. If there is no change to the solvency of the fund as determined by GASB, big swings in the projection results may not necessarily lead to big swings in the determination of the Total Pension Liability.

We recommend the projections are not used for any other purposes, other than providing backup information for purposes of the financial statement report.

The following pages provide the detail behind the charts shown on the chart in this section.

Projection of Contributions – Years 1 to 30

Year	Projected Covered-Employee Payroll: Current Employees (a)	Future Employees (b)	Total Employee Payroll (c) = (a) + (b)	Projected Contributions: Current Employees (d) - Notes	Employer Contributions for Current Employees (e) - Notes	Contributions Related to Pay of Future Employees (f) - Notes	Total Contributions (d) + (e) + (f)
1	$ 5,553,414	$ -	$ 5,553,414	$ 550,343	$ 4,449,991	$ -	$ 5,000,334
2	5,474,104	273,679	5,747,783	542,484	4,794,326	-	5,336,809
3	5,363,116	585,840	5,948,956	531,485	4,793,931	-	5,325,415
4	5,232,534	924,635	6,157,169	518,544	4,788,665	-	5,307,209
5	5,045,265	1,327,405	6,372,670	499,986	4,781,590	-	5,281,576
6	4,805,887	1,789,827	6,595,714	476,263	4,766,662	-	5,242,926
7	4,590,495	2,236,069	6,826,564	454,918	4,747,890	-	5,202,808
8	4,357,530	2,707,963	7,065,493	431,831	4,727,284	-	5,159,115
9	4,194,239	3,118,547	7,312,786	415,649	4,702,690	-	5,118,339
10	4,015,852	3,552,881	7,568,733	397,971	4,688,101	-	5,086,072
11	3,819,797	4,013,842	7,833,639	378,542	4,671,073	-	5,049,615
12	3,652,095	4,455,721	8,107,816	361,923	4,649,107	-	5,011,030
13	3,487,458	4,904,132	8,391,590	345,607	4,630,542	-	4,976,150
14	3,304,772	5,380,523	8,685,295	327,503	4,610,658	-	4,938,161
15	3,146,690	5,842,591	8,989,281	311,837	4,588,341	-	4,900,178
16	2,995,768	6,308,138	9,303,906	296,881	4,568,788	-	4,865,668
17	2,840,025	6,789,517	9,629,542	281,446	4,549,595	-	4,831,041
18	2,706,938	7,259,638	9,966,576	268,258	4,529,036	-	4,797,294
19	2,564,687	7,750,720	10,315,407	254,160	4,511,103	-	4,765,264
20	2,441,162	8,235,284	10,676,446	241,919	4,492,467	-	4,734,386
21	2,288,674	8,761,447	11,050,121	226,808	4,475,718	-	4,702,525
22	2,137,751	9,299,125	11,436,876	211,851	4,455,532	-	4,667,384
23	1,984,326	9,852,840	11,837,166	196,647	4,433,591	-	4,630,238
24	1,845,032	10,406,435	12,251,467	182,843	4,410,828	-	4,593,671
25	1,716,163	10,964,105	12,680,268	170,072	4,390,568	-	4,560,640
26	1,606,996	11,517,082	13,124,078	159,253	4,371,479	-	4,530,732
27	1,500,887	12,082,534	13,583,421	148,738	157,836	-	306,574
28	1,386,485	12,672,355	14,058,840	137,401	141,476	-	278,876
29	1,256,623	13,294,277	14,550,900	124,531	125,413	-	249,944
30	1,119,532	13,940,649	15,060,181	110,946	109,964	-	220,909

Column d – Contributions from employees to the pension fund (employees as of the valuation date)
Column e – Employer contributions to the fund excluding contributions for employees hired after the actuarial valuation date
Column f – Contributions from future employees to the extent they are anticipated to be greater than required to pay their total normal cost

PROJECTION OF CONTRIBUTIONS – YEARS 31 TO 60

Year	Projected Covered-Employee Payroll: Current Employees (a)	Future Employees (b)	Total Employee Payroll (c) = (a) + (b)	Projected Contributions: Current Employees (d) - Notes	Employer Contributions for Current Employees (e) - Notes	Contributions Related to Pay of Future Employees (f) - Notes	Total Contributions (d) + (e) + (f)
31	$ 969,096	$ 14,618,191	$ 15,587,287	$ 96,037	$ 94,723	$ -	$ 190,760
32	844,567	15,288,276	16,132,843	83,697	77,702	-	161,399
33	696,722	16,000,770	16,697,492	69,045	64,957	-	134,002
34	565,862	16,716,042	17,281,904	56,077	51,337	-	107,414
35	438,353	17,448,418	17,886,771	43,441	40,574	-	84,014
36	339,269	18,173,539	18,512,808	33,622	29,995	-	63,617
37	235,412	18,925,344	19,160,756	23,329	22,835	-	46,164
38	159,422	19,671,961	19,831,383	15,799	14,173	-	29,971
39	106,695	20,418,786	20,525,481	10,573	9,369	-	19,942
40	67,162	21,176,711	21,243,873	6,656	5,833	-	12,489
41	48,321	21,939,087	21,987,408	4,789	3,254	-	8,042
42	17,941	22,739,027	22,756,968	1,778	2,342	-	4,120
43	7,316	23,546,146	23,553,462	725	783	-	1,508
44	-	24,377,833	24,377,833	-	364	-	364
45	-	25,231,057	25,231,057	-	-	-	-
46	-	26,114,144	26,114,144	-	-	-	-
47	-	27,028,139	27,028,139	-	-	-	-
48	-	27,974,124	27,974,124	-	-	-	-
49	-	28,953,218	28,953,218	-	-	-	-
50	-	29,966,581	29,966,581	-	-	-	-
51	-	31,015,411	31,015,411	-	-	-	-
52	-	32,100,950	32,100,950	-	-	-	-
53	-	33,224,484	33,224,484	-	-	-	-
54	-	34,387,341	34,387,341	-	-	-	-
55	-	35,590,897	35,590,897	-	-	-	-
56	-	36,836,579	36,836,579	-	-	-	-
57	-	38,125,859	38,125,859	-	-	-	-
58	-	39,460,264	39,460,264	-	-	-	-
59	-	40,841,373	40,841,373	-	-	-	-
60	-	42,270,822	42,270,822	-	-	-	-

Column d – Contributions from employees to the pension fund (employees as of the valuation date)
Column e – Employer contributions to the fund excluding contributions for employees hired after the actuarial valuation date
Column f – Contributions from future employees to the extent they are anticipated to be greater than required to pay their total normal cost

PROJECTION OF CONTRIBUTIONS – YEARS 61 TO 80

	Projected Covered-Employee Payroll			Projected Contributions			
Year	Current Employees (a)	Future Employees (b)	Total Employee Payroll (c) = (a) + (b)	Current Employees (d) - Notes	Employer Contributions for Current Employees (e) - Notes	Contributions Related to Pay of Future Employees (f) - Notes	Total Contributions (d) + (e) + (f)
61	$ -	$ 43,750,300	$ 43,750,300	$ -	$ -	$ -	$ -
62	-	45,281,561	45,281,561	-	-	-	-
63	-	46,866,415	46,866,415	-	-	-	-
64	-	48,506,740	48,506,740	-	-	-	-
65	-	50,204,476	50,204,476	-	-	-	-
66	-	51,961,633	51,961,633	-	-	-	-
67	-	53,780,290	53,780,290	-	-	-	-
68	-	55,662,600	55,662,600	-	-	-	-
69	-	57,610,791	57,610,791	-	-	-	-
70	-	59,627,168	59,627,168	-	-	-	-
71	-	61,714,119	61,714,119	-	-	-	-
72	-	63,874,114	63,874,114	-	-	-	-
73	-	66,109,708	66,109,708	-	-	-	-
74	-	68,423,547	68,423,547	-	-	-	-
75	-	70,818,371	70,818,371	-	-	-	-
76	-	73,297,014	73,297,014	-	-	-	-
77	-	75,862,410	75,862,410	-	-	-	-
78	-	78,517,594	78,517,594	-	-	-	-
79	-	81,265,710	81,265,710	-	-	-	-
80	-	84,110,010	84,110,010	-	-	-	-

NOTES TO PROJECTION OF CONTRIBUTIONS

Total payroll is assumed to increase annually at the assumed payroll increase rate shown in the assumption section of this report. Payroll for current employees (employees active as of the actuarial valuation date) has been projected on an employee by employee basis, using expected pay increases and probability of remaining in active employment for future periods.

Employer contributions are related to current employees in the fund as of the Actuarial Valuation Date. To the extent future contributions under the Employer funding policy are made to cover the Normal Cost of providing benefits for future employees, those contributions have been excluded out for purposes of these projections and this report.

Contributions are based on the Funding Policy described in an earlier section of this report. The contributions do not factor in changes in funding policy based on an assumed Employer decision if the projections were to play out in this fashion. The only future events that have been considered were outlined in the funding policy section of the report. Contributions from future employees have not been included. It is assumed that contributions made by future employees will not exceed the Normal Cost of their participation in the Fund. In addition, contributions by the employer on behalf of service for future employees have not been included per the GASB parameters.

PROJECTION OF THE PENSION PLAN'S FIDUCIARY NET POSITION – YEARS 1 TO 30

Year	Projected Beginning Fiduciary Net Position (a)	Projected Total Contributions (b)	Projected Benefit Payments (c)	Projected Administrative Expenses (d)	Projected Investment Earnings (e)	Projected Ending Fiduciary Net Position (a)+(b)-(c)-(d)+(e)
1	$ 34,325,384	$ 5,000,334	$ 4,162,365	$ 44,857	$ 2,430,536	$ 37,549,032
2	37,549,032	5,336,809	4,363,265	46,203	2,660,889	41,137,263
3	41,137,263	5,325,415	4,581,308	47,589	2,903,987	44,737,768
4	44,737,768	5,307,209	4,869,660	49,016	3,145,242	48,271,543
5	48,271,543	5,281,576	5,272,353	50,487	3,377,564	51,607,843
6	51,607,843	5,242,926	5,540,964	52,002	3,600,298	54,858,100
7	54,858,100	5,202,808	5,836,355	53,562	3,816,018	57,987,010
8	57,987,010	5,159,115	6,075,012	55,168	4,025,103	61,041,048
9	61,041,048	5,118,339	6,330,622	56,823	4,228,455	64,000,397
10	64,000,397	5,086,072	6,615,530	58,528	4,424,448	66,836,859
11	66,836,859	5,049,615	6,867,148	60,284	4,612,857	69,571,898
12	69,571,898	5,011,030	7,094,468	62,093	4,794,939	72,221,307
13	72,221,307	4,976,150	7,320,108	63,955	4,971,215	74,784,608
14	74,784,608	4,938,161	7,532,989	65,874	5,141,798	77,265,704
15	77,265,704	4,900,178	7,728,660	67,850	5,307,228	79,676,600
16	79,676,600	4,865,668	7,920,827	69,886	5,467,985	82,019,541
17	82,019,541	4,831,041	8,089,658	71,982	5,624,797	84,313,739
18	84,313,739	4,797,294	8,249,020	74,142	5,778,556	86,566,427
19	86,566,427	4,765,264	8,401,811	76,366	5,929,698	88,783,212
20	88,783,212	4,734,386	8,540,023	78,657	6,078,875	90,977,792
21	90,977,792	4,702,525	8,645,888	81,017	6,227,592	93,181,005
22	93,181,005	4,667,384	8,776,263	83,447	6,375,939	95,364,617
23	95,364,617	4,630,238	8,868,909	85,951	6,524,161	97,564,157
24	97,564,157	4,593,671	8,944,462	88,529	6,674,115	99,798,952
25	99,798,952	4,560,640	8,982,009	91,185	6,827,987	102,114,385
26	102,114,385	4,530,732	8,985,130	93,921	6,988,816	104,554,882
27	104,554,882	306,574	8,981,704	96,738	7,011,826	102,794,840
28	102,794,840	278,876	8,982,678	99,640	6,887,518	100,878,916
29	100,878,916	249,944	8,967,934	102,630	6,752,802	98,811,099
30	98,811,099	220,909	8,967,351	105,708	6,606,952	96,565,901

Column b – Contributions on behalf of current employees only as of the Actuarial Valuation Date.
Column d – Based on average administrative expenses in recent years and projected to increase going forward.
Column e – Based on the current expected return on assets. Does not factor in allocation changes.

PROJECTION OF THE PENSION PLAN'S FIDUCIARY NET POSITION – YEARS 31 TO 60

Year	Projected Beginning Fiduciary Net Position (a)	Projected Total Contributions (b)	Projected Benefit Payments (c)	Projected Administrative Expenses (d)	Projected Investment Earnings (e)	Projected Ending Fiduciary Net Position (a)+(b)-(c)-(d)+(e)
31	$ 96,565,901	$ 190,760	$ 8,887,119	$ 108,880	$ 6,451,430	$ 94,212,092
32	94,212,092	161,399	8,870,213	112,146	6,286,113	91,677,244
33	91,677,244	134,002	8,802,712	115,510	6,109,959	89,002,984
34	89,002,984	107,414	8,724,582	118,976	5,924,444	86,191,283
35	86,191,283	84,014	8,598,536	122,545	5,731,092	83,285,309
36	83,285,309	63,617	8,447,112	126,221	5,532,132	80,307,724
37	80,307,724	46,164	8,305,018	130,008	5,327,930	77,246,792
38	77,246,792	29,971	8,117,037	133,908	5,119,541	74,145,360
39	74,145,360	19,942	7,912,158	137,926	4,909,120	71,024,338
40	71,024,338	12,489	7,673,039	142,063	4,698,612	67,920,337
41	67,920,337	8,042	7,434,860	146,325	4,489,364	64,836,558
42	64,836,558	4,120	7,177,398	150,715	4,282,219	61,794,785
43	61,794,785	1,508	6,911,696	155,236	4,078,345	58,807,705
44	58,807,705	364	6,635,765	159,893	3,878,704	55,891,115
45	55,891,115	-	6,355,178	164,690	3,684,183	53,055,429
46	53,055,429	-	6,070,951	169,631	3,495,460	50,310,307
47	50,310,307	-	5,784,235	174,720	3,313,158	47,664,510
48	47,664,510	-	5,496,354	179,962	3,137,845	45,126,039
49	45,126,039	-	5,208,681	185,360	2,970,031	42,702,029
50	42,702,029	-	4,922,473	190,921	2,810,173	40,398,808
51	40,398,808	-	4,638,851	196,649	2,658,674	38,221,982
52	38,221,982	-	4,358,710	202,548	2,515,895	36,176,618
53	36,176,618	-	4,082,680	208,625	2,382,168	34,267,481
54	34,267,481	-	3,811,230	214,883	2,257,810	32,499,177
55	32,499,177	-	3,544,775	221,330	2,143,129	30,876,201
56	30,876,201	-	3,283,600	227,970	2,038,429	29,403,060
57	29,403,060	-	3,028,019	234,809	1,944,015	28,084,248
58	28,084,248	-	2,778,369	241,853	1,860,190	26,924,215
59	26,924,215	-	2,535,055	249,109	1,787,249	25,927,300
60	25,927,300	-	2,298,614	256,582	1,725,479	25,097,584

Column b – Contributions on behalf of current employees only as of the Actuarial Valuation Date.
Column d – Based on average administrative expenses in recent years and projected to increase going forward.
Column e – Based on the current expected return on assets. Does not factor in allocation changes.

PROJECTION OF THE PENSION PLAN'S FIDUCIARY NET POSITION – YEARS 61 TO 80

Year	Projected Beginning Fiduciary Net Position (a)	Projected Total Contributions (b)	Projected Benefit Payments (c)	Projected Administrative Expenses (d)	Projected Investment Earnings (e)	Projected Ending Fiduciary Net Position (a)+(b)-(c)-(d)+(e)
61	$ 25,097,584	$ -	$ 2,069,772	$ 264,280	$ 1,675,139	$ 24,438,671
62	24,438,671	-	1,849,474	272,208	1,636,448	23,953,437
63	23,953,437	-	1,638,792	280,374	1,609,570	23,643,841
64	23,643,841	-	1,438,928	288,785	1,594,599	23,510,726
65	23,510,726	-	1,251,154	297,449	1,591,550	23,553,673
66	23,553,673	-	1,076,662	306,372	1,600,351	23,770,989
67	23,770,989	-	916,434	315,564	1,620,849	24,159,841
68	24,159,841	-	771,154	325,031	1,652,822	24,716,479
69	24,716,479	-	641,162	334,781	1,695,995	25,436,531
70	25,436,531	-	526,456	344,825	1,750,062	26,315,312
71	26,315,312	-	426,679	355,170	1,814,707	27,348,171
72	27,348,171	-	341,169	365,825	1,889,627	28,530,804
73	28,530,804	-	269,019	376,799	1,974,553	29,859,538
74	29,859,538	-	209,093	388,103	2,069,266	31,331,608
75	31,331,608	-	160,129	399,747	2,173,617	32,945,349
76	32,945,349	-	120,783	411,739	2,287,536	34,700,363
77	34,700,363	-	89,690	424,091	2,411,043	36,597,625
78	36,597,625	-	65,533	436,814	2,544,252	38,639,530
79	38,639,530	-	47,079	449,918	2,687,372	40,829,905
80	40,829,905	-	33,230	463,416	2,840,711	43,173,970

NOTES TO PROJECTION OF FIDUCIARY NET POSITION

Total contributions are Employee and Employer contributions anticipated to be made under the funding policy on behalf of employees in the fund as of the Actuarial Valuation Date. The amounts shown were detailed earlier in this section.

Projected benefit payments shown represent only employees active as of the Actuarial Valuation Date. The fund will also be paying benefit payments in the future on behalf of employees hired after the Actuarial Valuation Date, but those have not been estimated for this purpose.

Projected investment earnings are based on the current expected rate of return on plan assets. Administrative expenses are not typically charged on a per employee basis. Administrative expenses shown have not been adjusted to distinguish between current employees and future employees.

The projected Net Position represents assets held or projected to be held on behalf of current employees as of the Actuarial Valuation Date. The fund will also hold assets in the future on behalf of new employees that are not shown here.

ACTUARIAL PRESENT VALUES OF PROJECTED BENEFIT PAYMENTS – YEARS 1 TO 30

			Projected Benefit Payments		Present Value (PV) of Projected Benefit Payments		
Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	PV of "Funded" Portion of Benefit Payments (7.00%)	PV of "Unfunded" Portion of Benefit Payments (3.57%)	PV of Total Projected Payments Using the Single Discount Rate (7.00%)
1	$ 34,325,384	$ 4,162,365	$ 4,162,365	$ -	$ 4,023,910	$ -	$ 4,023,910
2	37,549,032	4,363,265	4,363,265	-	3,942,175	-	3,942,175
3	41,137,263	4,581,308	4,581,308	-	3,868,388	-	3,868,388
4	44,737,768	4,869,660	4,869,660	-	3,842,868	-	3,842,868
5	48,271,543	5,272,353	5,272,353	-	3,888,459	-	3,888,459
6	51,607,843	5,540,964	5,540,964	-	3,819,219	-	3,819,219
7	54,858,100	5,836,355	5,836,355	-	3,759,648	-	3,759,648
8	57,987,010	6,075,012	6,075,012	-	3,657,369	-	3,657,369
9	61,041,048	6,330,622	6,330,622	-	3,561,921	-	3,561,921
10	64,000,397	6,615,530	6,615,530	-	3,478,714	-	3,478,714
11	66,836,859	6,867,148	6,867,148	-	3,374,790	-	3,374,790
12	69,571,898	7,094,468	7,094,468	-	3,258,415	-	3,258,415
13	72,221,307	7,320,108	7,320,108	-	3,142,102	-	3,142,102
14	74,784,608	7,532,989	7,532,989	-	3,021,943	-	3,021,943
15	77,265,704	7,728,660	7,728,660	-	2,897,607	-	2,897,607
16	79,676,600	7,920,827	7,920,827	-	2,775,377	-	2,775,377
17	82,019,541	8,089,658	8,089,658	-	2,649,097	-	2,649,097
18	84,313,739	8,249,020	8,249,020	-	2,524,563	-	2,524,563
19	86,566,427	8,401,811	8,401,811	-	2,403,107	-	2,403,107
20	88,783,212	8,540,023	8,540,023	-	2,282,839	-	2,282,839
21	90,977,792	8,645,888	8,645,888	-	2,159,942	-	2,159,942
22	93,181,005	8,776,263	8,776,263	-	2,049,078	-	2,049,078
23	95,364,617	8,868,909	8,868,909	-	1,935,242	-	1,935,242
24	97,564,157	8,944,462	8,944,462	-	1,824,045	-	1,824,045
25	99,798,952	8,982,009	8,982,009	-	1,711,871	-	1,711,871
26	102,114,385	8,985,130	8,985,130	-	1,600,435	-	1,600,435
27	104,554,882	8,981,704	8,981,704	-	1,495,163	-	1,495,163
28	102,794,840	8,982,678	8,982,678	-	1,397,500	-	1,397,500
29	100,878,916	8,967,934	8,967,934	-	1,303,931	-	1,303,931
30	98,811,099	8,967,351	8,967,351	-	1,218,548	-	1,218,548

The projected Fiduciary Net Position and the Projected Benefit Payments are based only on the current employee group as of the Actuarial Valuation Date. The development of the Projected Fiduciary Net Position was shown in more detail earlier in this section.

ACTUARIAL PRESENT VALUES OF PROJECTED BENEFIT PAYMENTS – YEARS 31 TO 60

			Projected Benefit Payments		Present Value (PV) of Projected Benefit Payments		
Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	PV of "Funded" Portion of Benefit Payments (7.00%)	PV of "Unfunded" Portion of Benefit Payments (3.57%)	PV of Total Projected Payments Using the Single Discount Rate (7.00%)
31	$ 96,565,901	$ 8,887,119	$ 8,887,119	$ -	$ 1,128,641	$ -	$ 1,128,641
32	94,212,092	8,870,213	8,870,213	-	1,052,798	-	1,052,798
33	91,677,244	8,802,712	8,802,712	-	976,436	-	976,436
34	89,002,984	8,724,582	8,724,582	-	904,457	-	904,457
35	86,191,283	8,598,536	8,598,536	-	833,075	-	833,075
36	83,285,309	8,447,112	8,447,112	-	764,864	-	764,864
37	80,307,724	8,305,018	8,305,018	-	702,802	-	702,802
38	77,246,792	8,117,037	8,117,037	-	641,957	-	641,957
39	74,145,360	7,912,158	7,912,158	-	584,816	-	584,816
40	71,024,338	7,673,039	7,673,039	-	530,039	-	530,039
41	67,920,337	7,434,860	7,434,860	-	479,987	-	479,987
42	64,836,558	7,177,398	7,177,398	-	433,052	-	433,052
43	61,794,785	6,911,696	6,911,696	-	389,739	-	389,739
44	58,807,705	6,635,765	6,635,765	-	349,701	-	349,701
45	55,891,115	6,355,178	6,355,178	-	313,004	-	313,004
46	53,055,429	6,070,951	6,070,951	-	279,444	-	279,444
47	50,310,307	5,784,235	5,784,235	-	248,829	-	248,829
48	47,664,510	5,496,354	5,496,354	-	220,976	-	220,976
49	45,126,039	5,208,681	5,208,681	-	195,711	-	195,711
50	42,702,029	4,922,473	4,922,473	-	172,857	-	172,857
51	40,398,808	4,638,851	4,638,851	-	152,240	-	152,240
52	38,221,982	4,358,710	4,358,710	-	133,688	-	133,688
53	36,176,618	4,082,680	4,082,680	-	117,030	-	117,030
54	34,267,481	3,811,230	3,811,230	-	102,102	-	102,102
55	32,499,177	3,544,775	3,544,775	-	88,751	-	88,751
56	30,876,201	3,283,600	3,283,600	-	76,833	-	76,833
57	29,403,060	3,028,019	3,028,019	-	66,218	-	66,218
58	28,084,248	2,778,369	2,778,369	-	56,784	-	56,784
59	26,924,215	2,535,055	2,535,055	-	48,421	-	48,421
60	25,927,300	2,298,614	2,298,614	-	41,033	-	41,033

The projected Fiduciary Net Position and the Projected Benefit Payments are based only on the current employee group as of the Actuarial Valuation Date. The development of the Projected Fiduciary Net Position was shown in more detail earlier in this section.

ACTUARIAL PRESENT VALUES OF PROJECTED BENEFIT PAYMENTS – YEARS 61 TO 80

			Projected Benefit Payments		Present Value (PV) of Projected Benefit Payments		
Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	PV of "Funded" Portion of Benefit Payments (7.00%)	PV of "Unfunded" Portion of Benefit Payments (3.57%)	PV of Total Projected Payments Using the Single Discount Rate (7.00%)
61	$ 25,097,584	$ 2,069,772	$ 2,069,772	$ -	$ 34,531	$ -	$ 34,531
62	24,438,671	1,849,474	1,849,474	-	28,837	-	28,837
63	23,953,437	1,638,792	1,638,792	-	23,880	-	23,880
64	23,643,841	1,438,928	1,438,928	-	19,596	-	19,596
65	23,510,726	1,251,154	1,251,154	-	15,924	-	15,924
66	23,553,673	1,076,662	1,076,662	-	12,807	-	12,807
67	23,770,989	916,434	916,434	-	10,188	-	10,188
68	24,159,841	771,154	771,154	-	8,012	-	8,012
69	24,716,479	641,162	641,162	-	6,226	-	6,226
70	25,436,531	526,456	526,456	-	4,777	-	4,777
71	26,315,312	426,679	426,679	-	3,619	-	3,619
72	27,348,171	341,169	341,169	-	2,704	-	2,704
73	28,530,804	269,019	269,019	-	1,993	-	1,993
74	29,859,538	209,093	209,093	-	1,448	-	1,448
75	31,331,608	160,129	160,129	-	1,036	-	1,036
76	32,945,349	120,783	120,783	-	730	-	730
77	34,700,363	89,690	89,690	-	507	-	507
78	36,597,625	65,533	65,533	-	346	-	346
79	38,639,530	47,079	47,079	-	232	-	232
80	40,829,905	33,230	33,230	-	153	-	153

NOTES TO THE ACTUARIAL PRESENT VALUE OF PROJECTED BENEFIT PAYMENTS

The projected Fiduciary Net Position and the Projected Benefit Payments are based only on the current employee group as of the Actuarial Valuation Date. The development of the Net Position was shown in more detail earlier in this section.

The Funded and Unfunded portion of the Benefit Payments is split based on the time that the Fiduciary Net Position is projected to go to $0 (based on assets for current fund members).

The Present Value of the Funded portion and Unfunded portion of the benefit payments has been determined separately. The PV of the funded portion of the benefit payments uses the assumption for the expected rate of return on plan assets. The PV of the unfunded portion of the benefit payments has been determined using the high quality Municipal Bond Rate as of the Measurement Date as described in the Actuarial Assumption section of the report.

The discount rate used for GASB purposes is the rate that is when applied to the total Projected Benefit payments results in a present value that equals the sum of the present value of the funded and unfunded payments. The discount rate has been round to four decimal places. Therefore, the resulting present value comparisons might show a slight difference due to rounding.

Lauterbach & Amen, LLP
27W457 Warrenville Road
Warrenville, IL 60555-3902

Actuarial Valuation
as of January 1, 2016

MOLINE POLICE PENSION FUND

Utilizing Data as of December 31, 2015
For the Contribution Year January 1, 2016 to December 31, 2016

LAUTERBACH & AMEN, LLP

Actuarial Valuation – Funding Recommendation

Lauterbach & Amen, LLP

CERTIFIED PUBLIC ACCOUNTANTS

MOLINE POLICE PENSION FUND

Contribution Year Ending: December 31, 2016
Actuarial Valuation Date: January 1, 2016
Utilizing Data as of December 31, 2015

Submitted by:

Lauterbach & Amen, LLP
630.393.1483 Phone
www.lauterbachamen.com

Contact:

Todd A. Schroeder
April 4, 2016

LAUTERBACH & AMEN, LLP

TABLE OF CONTENTS

TABLE OF CONTENTS

Lauterbach & Amen, LLP
CERTIFIED PUBLIC ACCOUNTANTS
27W457 WARRENVILLE RD. • WARRENVILLE, ILLINOIS 60555
PHONE 630.393.1483 • FAX 630.393.2516
www.lauterbachamen.com

ACTUARIAL CERTIFICATION

This report documents the results of the Actuarial valuation of the Moline Police Pension Fund. The purpose is to report the actuarial contribution requirement for the contribution year January 1, 2016 to December 31, 2016. Determinations for purposes other than meeting the employer's actuarial contribution requirements may be significantly different from the results herein.

The results in this report are based on information and data submitted by the Moline Police Pension Fund including studies performed by prior actuaries. We did not prepare the actuarial valuations for the years prior to January 1, 2015. Those Valuations were prepared by other actuaries whose reports have been furnished to us, and our disclosures are based upon those reports. An audit of the information was not performed, but high-level reviews were performed for general reasonableness, as appropriate, based on the purpose of the valuation. The accuracy of the results is dependent upon the accuracy and completeness of the underlying information. The results of the actuarial valuation and these supplemental disclosures rely on the information provided.

The valuation results summarized in this report involve actuarial calculations that require assumptions about future events. The Moline Police Pension Fund selected certain assumptions, while others were the result of guidance and/or judgment. We believe that the assumptions used in this valuation are reasonable and appropriate for the purposes for which they have been used.

To the best of our knowledge, all calculations are in accordance with the applicable funding requirements, and the procedures followed and presentation of results conform to generally accepted actuarial principles and practices. The undersigned of Lauterbach & Amen, LLP, with actuarial credentials, meets the Qualification Standards of the American Academy of Actuaries to render this Actuarial Opinion. There is no relationship between the Moline Police Pension Fund and Lauterbach & Amen, LLP that impairs our objectivity.

The information contained in this report was prepared for the use of the Moline Police Pension Fund and the City of Moline, Illinois in connection with our actuarial valuation. It is not intended or necessarily suitable for other purposes. It is intended to be used in its entirety to avoid misrepresentations.

Respectfully Submitted,

LAUTERBACH & AMEN, LLP

Todd A. Schroeder

Todd A. Schroeder, EA

MANAGEMENT SUMMARY

Contribution Recommendation
Funded Status
Management Summary

CONTRIBUTION RECOMMENDATION

	Prior Valuation	Current Valuation
Contribution Requirement	$3,740,525	$4,029,962
Expected Payroll	$5,590,505	$5,650,604
Contribution Requirement as a Percent of Expected Payroll	66.91%	71.32%

Recommended Contribution has Increased $289,437 from Prior Year.

FUNDED STATUS

	Prior Valuation	Current Valuation
Normal Cost	$1,250,907	$992,579
Market Value of Assets	$34,156,882	$34,325,384
Actuarial Value of Assets	$35,129,659	$36,546,794
Actuarial Accrued Liability	$77,875,052	$86,288,015
Unfunded Actuarial Accrued Liability	$42,745,393	$49,741,221
Percent Funded		
Actuarial Value of Assets	45.11%	42.35%
Market Value of Assets	43.86%	39.78%

Funded Percentage has Decreased 2.76 on an Actuarial Value of Assets Basis.

MANAGEMENT SUMMARY – COMMENTS AND ANALYSIS

Contribution Results
The contribution recommendation is based on the funding policies and procedures that are outlined in the "Actuarial Funding Policies" section of this report.

The State of Illinois statutes for pension funds contain parameters that should be used to determine the minimum amount of contribution to a public pension fund. Those parameters and the resulting minimum contribution can be found in the "Illinois Statutory Minimum Contribution" section of this report.

Defined Benefit Plan Risks
Asset Growth
Pension funding involves preparing plan assets to pay benefits for the members when they retire. During their working careers, assets need to build with contributions and investment earnings, and then the pension fund distributes assets during retirement. Based on the fund's current mix of employees and funded status, the fund should be experiencing positive asset growth on average if requested contributions are made and expected investment earnings come in. In the current year the fund asset growth was positive by approximately $170,000

Asset growth is important long-term. Long-term cash flow out of the pension fund is primarily benefit payments. Expenses make up a smaller portion. The fund should monitor the impact of expected benefit payments and the impact on asset growth in the future. In the next 5 years, benefits payments are anticipated to increase 40-45%, or approximately $1.6 million dollars. In the next 10 years, the expected increase in benefit payments is 70-75%, or approximately $2.9 million dollars.

Unfunded Liability:
Unfunded liability represents dollars we expect to be in the pension fund already for the fund members based on funding policy. To the extent dollars are not in the pension fund the fund is losing investment returns on those dollars going forward. Payments to unfunded liability pay for the lost investment earnings, as well as the outstanding unfunded amount. If payment is not made, the unfunded liability will grow.

In the early 1990s, many pension funds in Illinois adopted an increasing payment to handle unfunded liability due to a change in legislation. The initial payments decreased, and payments were anticipated to increase annually after that. In many situations, payments early on may be less than the interest on unfunded liability, which means unfunded liability is expected to *increase* even if contributions are at the recommended level.

The current contribution recommendation includes a payment to unfunded liability that is currently approximately $46,000 more than interest on the unfunded liability. All else being equal and contributions being made, unfunded liability would still be expected to decrease. The employer and the fund should anticipate currently that improvement in the funded percent will be mitigated in the short-term. The employer and the fund should understand this impact as we progress forward to manage expectations.

Actuarial Value of Assets:
The pension fund smooths asset returns that vary from expectations over a five year period. The intention over time is that asset returns for purposes of funding recommendations are a combination of several years. The impact is intended to smooth out the volatility of contribution recommendations over time, but not necessarily increase or decrease the level of contributions over the long-term.

When asset returns are smoothed, there are always gains or losses on the Market Value of Assets that are going to be deferred for current funding purposes, and recognized in future years. Currently, the pension fund is deferring approximately $2.2 million dollars in losses on the Market Value of Assets. These are asset losses that will be recognized in upcoming periods, independent of the future performance of the Market Value of Assets.

Plan Assets
The results in this report are based on the Assets held in the pension fund. Assets consist of funds held for investment and for benefit payments as of the Valuation Date. In addition, Assets may be adjusted for other events representing dollars that are reasonably expected to be paid out from the pension fund or deposited into the pension fund after the Actuarial Valuation Date as well.

The current fund Assets are audited.

The Plan Assets Used in this Report are audited.

The current fund Assets are based on the year-end financials as prepared by the pension fund accountant. The year-end financials represent a full accrual version of the fiduciary fund as of the end of the fiscal year, prepared in preparation for the audit. The changes to the fund cash balance as of the fiscal year-end are non-cash items that can include accrued interest, due/unpaid expenses, prepaids and other adjustments.

The actuarial value of assets under the funding policy is equal to the fair market value of assets, with unexpected gains and losses smoothed over 5 years. More detail on the Actuarial Value of Assets can be found in the funding policy section of the report.

Demographic Data
Demographic factors can change from year to year within a pension fund. Changes in this category include hiring new employees, employees retiring or becoming disabled, retirees passing away, and other changes. Demographic changes can cause an actuarial gain (contribution that is less than expected

compared to the prior year) or an actuarial loss (contribution that is greater than expected compared to the prior year).

Demographic gains and losses occur when the assumptions over the one-year period for employee changes do not meet our long-term expectation. For example, if no employees become disabled during the year, we would expect a liability gain. If more employees become disabled than anticipated last year, we would expect a liability loss. Generally we expect short-term fluctuations in demographic experience to create 1%-3% gains or losses in any given year, but to balance out in the long-term.

In the current report, the key demographic changes were as follows:

New hires: The fund added 5 new active members in the current year through hiring. When a new member is admitted to the pension fund, the employer contribution will increase to reflect the new member. The increase in the recommended contribution in the current year for new fund members is approximately $22,000.

Retirement: There were 5 members of the fund who retired during the year. When a fund member retires the normal cost will decrease. Any change in the actuarial liability will be considered when determining the amount to pay towards unfunded liability each year. The decrease in the recommended contribution in the current year due to the retirement experience is approximately $16,500.

Vested Termination: There was 1 member of the fund who terminated employment during the year. The fund may be obligated to pay a deferred benefit to the member in the future. The decrease in the recommended contribution in the current year due to the termination experience is approximately $25,500.

Mortality: There were 4 retirees who passed away during the year, 2 of which had an eligible surviving spouse. When a retiree passes away, the fund liability will decrease as the pension fund no longer will make future payments to the retiree. If there is an eligible surviving spouse, the fund liability will increase to represent the value of the expected payments that will be made to the spouse. The net decrease in the recommended contribution in the current year due to the passing of the retirees is approximately $58,000.

Salary Increases: Salary increases were less than anticipated in the current year. This caused a decrease in the recommended contribution in the current year of approximately $11,000.

MANAGEMENT SUMMARY

Assumption Changes

We performed a comprehensive study of Police pension funds in the State of Illinois. We reviewed the results of the study in addition to the experience in the current fund. The actuarial assumptions were changed in the current year. The changes were made to better reflect the future anticipated experience in the fund.

Funding Policy Changes

The funding policy was not changed from the prior year.

ACTUARIAL CONTRIBUTION RECOMMENDATION - RECONCILIATION

Actuarial liability is expected to increase each year for both interest for the year and as active employees earn additional service years towards retirement. Similarly actuarial liability is expected to decrease when the fund pays benefits to inactive employees.

Contributions are expected to increase as expected pay increases under the funding policy for the Fund.

	Actuarial Liability	Contribution Recommendation
Prior Valuation	$ 77,875,052	$ 3,740,525
Expected Changes	2,609,848	27,456
Initial Expected Current Valuation	$ 80,484,900	$ 3,767,981

Other increases or decreases in actuarial liability (key changes noted below) will increase or decrease the amount of unfunded liability in the plan. To the extent unfunded liability increases or decreases unexpectedly, the contribution towards unfunded liability will also change unexpectedly.

	Actuarial Liability	Contribution Recommendation
Salary Increase Less than Expected	(129,521)	(10,872)
Demographic Changes	791,000	(115,461)
Assumption Changes	5,141,636	268,632
Asset Return Less than Expected *	-	105,157
Contributions Less than Expected	-	14,525
Total Actuarial Experience	$ 5,803,115	$ 261,981
Current Valuation	$ 86,288,015	$ 4,029,962

*The impact on contribution due to asset performance is based on the Actuarial Value of Assets.

Key demographic changes were discussed in the prior section.

VALUATION OF FUND ASSETS

Market Value of Assets
Actuarial Value of Assets

MARKET VALUE OF ASSETS

Statement of Assets

	Prior Valuation	Current Valuation
Cash and Cash Equivalents	$ 1,155,815	$ 1,581,919
Fixed Income	11,050,889	11,592,406
Mutual Funds	21,950,178	21,151,059
Net Assets Available for Pensions	$ 34,156,882	$ 34,325,384

The Total Value of Assets has Increased $168,502 from Prior Valuation.

Statement of Changes in Assets

Total Market Value - Prior Valuation	$ 34,156,882
Plus - Employer Contributions	3,523,625
Plus - Employee Contributions	601,643
Plus - Return on Investments	33,812
Less - Benefit and Related Payments	(3,947,961)
Less - Other Expenses	(42,617)
Total Market Value - Current Valuation	$ 34,325,384

The Return on Investment on the Market Value of Assets for the Fund was Approximately 0.0% Net of Administrative Expenses.

The return on investments shown has been determined as the Return on Assets from the statement of changes in assets, as a percent of the average of the beginning and ending Market Value of Assets. Return on Investment is net of the Other Expenses as shown. The Return on Investments has been excluded from the Total Market Value of Assets at the end of the year for this calculation.

MARKET VALUE OF ASSETS (GAIN)/LOSS

Current Year (Gain)/Loss on Market Value of Assets

Total Market Value - Prior Valuation	$ 34,156,882
Contributions	4,125,269
Benefit Payments	(3,947,961)
Expected Return on Investments	2,397,187
Expected Total Market Value - Current Valuation	36,731,377
Actual Total Market Value - Current Valuation	34,325,384
Current Market Value (Gain)/Loss	$ 2,405,993
Expected Return on Investments	$ 2,397,187
Actual Return on Investments (Net of Expenses)	(8,806)
Current Market Value (Gain)/Loss	$ 2,405,993

The Return on the Market Value of Assets was Lower than Expected Over the Most Recent Year.

The (Gain)/Loss on the Market Value of Assets has been determined based on expected returns at the actuarial rate.

DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS

Total Market Value - Current Valuation		$ 34,325,384
Adjustment for Prior (Gains)/Losses		
	Full Amount	
First Preceding Year	$ 2,405,993	1,924,794
Second Preceding Year	243,071	145,842
Third Preceding Year	(924,038)	(369,615)
Fourth Preceding Year	2,601,944	520,389
Total Deferred (Gain)/Loss		2,221,410
Initial Actuarial Value of Assets - Current Valuation		36,546,794
Less Contributions for the Current Year and Interest		-
Less Adjustment for the Corridor		-
Actuarial Value of Assets - Current Valuation		$ 36,546,794

The Actuarial Value of Assets is Equal to the Fair Market Value of Assets with Unanticipated Gains/Losses Recognized over 5 Years. The Actuarial Value of Assets is Currently 106% of the Market Value.

(GAIN)/LOSS ON THE ACTUARIAL VALUE OF ASSETS

Total Actuarial Value - Prior Valuation	$ 35,129,659
Plus - Employer Contributions	3,523,625
Plus - Employee Contributions	601,643
Plus - Return on Investments	1,282,445
Less - Benefit and Related Payments	(3,947,961)
Less - Other Expenses	(42,617)
Total Actuarial Value - Current Valuation	$ 36,546,794

The Return on Investment on the Actuarial Value of Assets for the Fund was Approximately 3.5% Net of Administrative Expenses.

The Actuarial Value of Assets incorporates portions of gains and losses over multiple years.

HISTORICAL ASSET PERFORMANCE

The chart below shows the historical rates of return on plan assets for both Market Value of Assets and Actuarial Value of Assets.

	Market Value	Actuarial Value
First Preceding Year	0.0%	3.5%
Second Preceding Year	6.2%	5.1%

The returns on assets shown above were calculated based on the annual return on investment for the year, as a percentage of the average value of the assets for the year.

For purposes of determining the average value of assets during the year, the ending market value of assets has been adjusted to net out to the portion related to the investment returns themselves. All other cash flows are included.

For purposes of determining the annual return on investment we have adjusted the figures shown on the preceding pages. The figures shown on the preceding pages are net of investment expenses. We have made an additional adjustment to net out administrative expenses. Netting out administrative expenses allows us to capture returns for the year that can be used to make benefit payments as part of the ongoing actuarial process.

The adjustment we make is for actuarial reporting purposes only. By netting out administrative expenses and capturing return dollars that are available to pay benefits, it provides us a comparison to the estimated rate of return on assets, but does not provide a figure that would be consistent with the return rates that are determined by other parties. Therefore this calculated rate of return should not be used to analyze investment performance of the Fund or the performance of the investment professionals.

RECOMMENDED CONTRIBUTION DETAIL

Actuarial Accrued Liability
Funded Status
Development of the Normal Cost
Recommended Contribution
Actuarial Methods – Recommended Contribution

RECOMMENDED CONTRIBUTION DETAIL

ACTUARIAL ACCRUED LIABILITY

	Prior Valuation	Current Valuation
Active Employees	$ 29,940,664	$ 30,297,757
Inactive Employees		
Terminated Employees - Vested	778,983	1,496,985
Retired Employees	40,196,803	46,866,385
Disabled Employees	3,793,919	3,641,303
Other Beneficiaries	3,164,683	3,985,585
Total Inactive Employees	47,934,388	55,990,258
Total Actuarial Accrued Liability	$ 77,875,052	$ 86,288,015

The Total Actuarial Liability has Increased $8,412,963 from Prior Valuation.

FUNDED STATUS

	Prior Valuation	Current Valuation
Total Actuarial Accrued Liability	$ 77,875,052	$ 86,288,015
Total Actuarial Value of Assets	35,129,659	36,546,794
Unfunded Actuarial Accrued Liability	$ 42,745,393	$ 49,741,221
Total Market Value of Assets	$ 34,156,882	$ 34,325,384
Percent Funded		
Actuarial Value of Assets	45.11%	42.35%
Market Value of Assets	43.86%	39.78%

Funded Percentage as of the Valuation Date is Subject to Volatility on Assets and Liability in the Short-Term.

RECOMMENDED CONTRIBUTION DETAIL

DEVELOPMENT OF THE EMPLOYER NORMAL COST

	Prior Valuation	Current Valuation
Total Normal Cost	$ 1,250,907	$ 992,579
Estimated Employee Contributions	(554,019)	(559,975)
Employer Normal Cost	$ 696,888	$ 432,604

At a 100% Funding Level, the Normal Cost Contribution is Still Required.

NORMAL COST AS A PERCENTAGE OF EXPECTED PAYROLL

	Prior Valuation	Current Valuation
Expected Payroll	$ 5,590,505	$ 5,650,604
Employee Normal Cost Rate	9.910%	9.910%
Employer Normal Cost Rate	12.47%	7.66%
Total Normal Cost Rate	22.38%	17.57%

Ideally, the Employer Normal Cost Rate will Remain Stable.

CONTRIBUTION RECOMMENDATION

	Prior Valuation	Current Valuation
Employer Normal Cost*	$ 784,451	$ 502,085
Amortization of Unfunded Accrued Liability/(Surplus)	2,956,074	3,527,877
Funding Requirement	$ 3,740,525	$ 4,029,962

The Recommended Contribution has Increased 7.7% from the Prior Valuation (See the Management Summary).

*Employer Normal Cost Contribution includes interest through the end of the year.

ACTUARIAL METHODS – RECOMMENDED CONTRIBUTION

Actuarial Valuation Date	January 1, 2016
Data Collection Date	December 31, 2015
Actuarial Cost Method	Entry Age Normal (Level % Pay)
Amortization Method	Level Dollar (Closed)
Amortization Target	90% Funded in year 2040
Asset Valuation Method	5-Year Smoothed Market Value

The contribution and benefit values of the Pension Fund are calculated by applying actuarial assumptions to the benefit provisions and census information furnished, using the actuarial cost methods described. The actuarial cost and amortization method allocates the projected obligations of the plan over the working lifetimes of the plan participants.

The recommended contribution amount shown in this report is based on the methods summarized above. The Actuarial Funding Policies section of the report will include a more detail description of the funding methods being used.

The Actuarial Funding Methods are meant to provide a systematic process for determining contributions on an annual basis. The methods do not impact the expectation of future benefit payments. The methods only impact the way dollars are contributed towards future benefit payments.

Different Actuarial Funding Methods may achieve funding goals with differing levels of success. Certain methods are more efficient and more stable on an annual basis.

ILLINOIS STATUTORY MINIMUM CONTRIBUTION

Minimum Contribution
Methods and Assumptions

STATUTORY MINIMUM CONTRIBUTION

	Minimum Contribution
Contribution Requirement	$3,128,093
Expected Payroll	$5,650,604
Contribution Requirement as a Percent of Expected Payroll	55.36%

FUNDED STATUS – STATUTORY MINIMUM

	Minimum Contribution
Normal Cost	$1,543,902
Market Value of Assets	$34,325,384
Actuarial Value of Assets	$36,546,794
Actuarial Accrued Liability	$77,100,573
Unfunded Actuarial Accrued Liability	$40,553,779
Percent Funded	
Actuarial Value of Assets	47.40%
Market Value of Assets	44.52%

ILLINOIS STATUTORY MINIMUM CONTRIBUTION

The Statutory Minimum Contribution is based on funding methods and funding parameters in the Illinois statutes for pension funding. The resulting contribution is lower than the recommended contribution for the current plan year. The lower contribution amount is not recommended because it represents only a deferral of contributions when compared to the recommended contribution method.

Actuarial Funding methods for pensions are best applied to provide a balance between the long-term goals of a variety of stakeholders:

1. Beneficiaries – the fund participants are interested in benefit security and having the dollars there to pay benefits when retired.

2. Employers – cost control and cost stability over the long-term

3. Taxpayers – paying for the services they are receiving from active employees

The Statutory Minimum Contribution methods are not intended to provide a better system in any of the above categories long-term. The parameters are not recommended for a long-term funding strategy.

The Statutory Minimum methods put into place in 2011 were intended to provide short-term budget relief for Employer contributions. An employer using the Statutory Minimum parameters for current funding should view the contributions as short-term relief. Our recommendation in this situation is for a pension fund and an employer to work towards a long-term funding strategy that better achieves the long-term funding goals, over a period that does not exceed 3-5 years.

The Securities and Exchange Commission in 2013 used the phrase “Statutory Underfunding” to describe situations where contributions appear to be more manageable in the short-term, but set up future contribution requirements that are less likely to be manageable.

ACTUARIAL METHODS – ILLINOIS STATUTORY MINIMUM CONTRIBUTION

Actuarial Valuation Date	January 1, 2016
Data Collection Date	December 31, 2015
Actuarial Cost Method	Projected Unit Credit (Level % of Pay)
Amortization Method	Level % Pay (Closed)
Remaining Amortization Period	90% Funded in year 2040
Asset Valuation Method	5-Year Smoothed Market Value

The contribution and benefit values of the Pension Fund are calculated by applying actuarial assumptions to the benefit provisions and census information furnished, using the actuarial cost methods described. The actuarial cost and amortization method allocates the projected obligations of the plan over the working lifetimes of the plan participants.

The recommended contribution amount shown in this report is based on the methods summarized above. The Actuarial Funding Policies section of the report will include a more detail description of the funding methods being used.

The Actuarial Funding Methods are meant to provide a systematic process for determining contributions on an annual basis. The methods do not impact the expectation of future benefit payments. The methods only impact the way dollars are contributed towards future benefit payments.

Different Actuarial Funding Methods may achieve funding goals with differing levels of success. Certain methods are more efficient and more stable on an annual basis.

ACTUARIAL VALUATION DATA

Active Employees
Retirees and Beneficiaries

ACTUARIAL VALUATION DATA

ACTIVE EMPLOYEES

	Prior Valuation	Current Valuation
Vested	56	56
Nonvested	23	23
Total Active Employees	79	79
Total Payroll	$ 5,494,354	$ 5,553,419

INACTIVE EMPLOYEES

	Prior Valuation	Current Valuation
Terminated Employees - Vested	4	5
Retired Employees	60	60
Disabled Employees	7	7
Other Beneficiaries	13	15
Total Inactive Employees	84	87

SUMMARY OF BENEFIT PAYMENTS

	Prior Valuation	Current Valuation
Terminated Employees - Vested	$ 8,076	$ 12,210
Retired Employees	267,186	276,098
Disabled Employees	18,371	18,371
Other Beneficiaries	34,622	41,282
Total Inactive Employees	$ 328,255	$ 347,960

Benefits shown for terminated employees under deferred retirement are not currently in pay status.

ACTUARIAL FUNDING POLICIES

Actuarial Cost Method
Financing Unfunded Accrued Liability
Actuarial Value of Assets

ACTUARIAL COST METHOD

The actuarial cost method allocates the projected obligations of the plan over the working lifetimes of the plan participants.

In accordance with the Pension Fund's Funding Policy the actuarial cost method for the recommended contribution basis is Entry Age Normal (Level Percent of Pay). The Entry Age Normal Cost Method is a method under which the actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age. The portion of this actuarial present value allocated to a valuation year is called normal cost. The portion of the actuarial present value not provided at a valuation date by the actuarial present value of future normal costs is called the actuarial liability.

FINANCING UNFUNDED ACTUARIAL ACCRUED LIABILITY

The Unfunded Actuarial Accrued Liability may be amortized over a period either in level dollar amounts or as a level percentage of projected payroll.

In accordance with the Pension Fund's Funding Policy for the recommended contribution the unfunded actuarial accrued liabilities are amortized by level dollar contributions to 90% funding target over the remaining 25 future years including the municipality's fiscal year 2040.

ACTUARIAL VALUE OF ASSETS

The pension fund is an ongoing plan. The employer wishes to smooth the effect of volatility in the market value of assets on the annual contribution. The Actuarial Value of Assets is equal to the Market Value of Assets with unanticipated gains/losses recognized over five years.

The asset valuation method is intended to create an Actuarial Value of Assets that remains reasonable in relation to the Market Value of Assets over time. The method produces results that can fall above and below the Market Value of Assets. The period of recognition is short.

It is intended that the period of recognition is short enough to keep the Actuarial Value of Assets within a decent range of the Market Value. The employer has not placed a specific corridor around the Market Value of Assets.

ACTUARIAL ASSUMPTIONS

Nature of Actuarial Calculations
Actuarial Assumptions in the Valuation Process
Actuarial Assumptions Utilized

NATURE OF ACTUARIAL CALCULATIONS

The results documented in this report are estimates based on data that may be imperfect and on assumptions about future events. Certain plan provisions may be approximated or deemed immaterial, and, therefore, are not valued. Assumptions may be made about participant data or other factors. Reasonable efforts were made in this valuation to ensure that significant items in the context of the actuarial liabilities or costs are treated appropriately, and not excluded or included inappropriately.

Actual future experience will differ from the assumptions used in the calculations. As these differences arise, the expense for accounting purposes will be adjusted in future valuations to reflect such actual experience.

A range of results different from those presented in this report could be considered reasonable. The numbers are not rounded, but this is for convenience only and should not imply precision which is not inherent in actuarial calculations.

ACTUARIAL ASSUMPTIONS IN THE VALUATION PROCESS

The contribution and benefit values of the Pension Fund are calculated by applying actuarial assumptions to the benefit provisions and census information furnished, using the actuarial cost methods described in the previous section.

The principal areas of financial risk which require assumptions about future experience are:

- Long-term Rates of Investment Return
- Patterns of Pay Increases for Members
- Rates of Mortality Among Members and Beneficiaries
- Rates of Withdrawal of Active Members
- Rates of Disability Among Members
- Age Patterns of Actual Retirement

Actual experience of the Pension Fund will not coincide exactly with assumed experience. Each valuation provides a complete recalculation of assumed future experience and takes into account all past differences between assumed and actual experience. The result is a continual series of adjustments to the computed contribution requirement.

From time to time it becomes appropriate to modify one or more of the assumptions, to reflect experience trends (but not random year-to-year fluctuations).

Details behind the selection of the actuarial assumptions can be found in the assumption document provided to the client. The client has reviewed and approved the assumptions as a reasonable expectation of the future anticipated experience under the plan.

ACTUARIAL ASSUMPTIONS UTILIZED

Expected Return on Investments 7.00% net of adminstrative expenses.

CPI-U 2.00%

Total Payroll Increases 3.50%

Individual Pay Increases 3.00% - 5.00%

Individual salary increases include a long-term average increase for inflation, average annual increases for promotions, and any additional increases for a step program. Sample Rates as Follows:

Service	Rate	Service	Rate
0	5.00%	8	5.00%
1	5.00%	9	5.00%
2	5.00%	10	5.00%
3	5.00%	15	5.00%
4	5.00%	20	3.00%
5	5.00%	25	3.00%
6	5.00%	30	3.00%
7	5.00%	35	3.00%

Retirement Rates 100% of the L&A Assumption Study Cap Age 65 for Police 2016. Sample Rates as Follows:

Age	Rate	Age	Rate
50	0.117	53	0.139
51	0.124	54	0.147
52	0.131	55	0.156

Withdrawal Rates

100% of the L&A Assumption Study for Police 2016. Sample Rates as Follows:

Age	Rate	Age	Rate
25	0.041	40	0.027
30	0.039	45	0.014
35	0.036	50	0.000

Disability Rates

100% of the L&A Assumption Study for Police 2016. Sample Rates as Follows:

Age	Rate	Age	Rate
25	0.001	40	0.003
30	0.001	45	0.004
35	0.002	50	0.006

Mortality Rates

L&A Assumption Study for Police 2016. Sample Male Rates as Follows:

Age	Rate	Age	Rate
25	0.0006	40	0.0008
30	0.0006	45	0.0012
35	0.0007	50	0.0020

L&A Assumption Study for Police 2016. Sample Female Rates as Follows:

Age	Rate	Age	Rate
25	0.0002	40	0.0004
30	0.0002	45	0.0007
35	0.0003	50	0.0012

Mortality improvement to the valuation date using MP 2014 is assumed. Active mortality (pre-retirement) and disabled mortality follow RP 2014.

Married Participants

80% of Active Participants are Assumed to be Married. Female Spouses are Assumed to be 3 Years Younger than Male Spouses.

SUMMARY OF PRINCIPAL PLAN PROVISIONS

Establishment of the Fund
Administration
Employee Contributions
Normal Retirement Pension Benefits
Pension to Survivors
Termination Benefits
Disability Benefits

SUMMARY OF PRINCIPAL PLAN PROVISIONS

ESTABLISHMENT OF THE FUND

The Police Pension Fund is established and administered as prescribed by "Article 3. Police Pension Fund – Municipalities 500,000 and Under" of the Illinois Pension Code.

ADMINISTRATION

The Police Pension Fund is administered by a Board of Trustees located in each municipality maintaining a pension fund for its police officers. Its duties are to control and manage the pension fund, to hear and determine applications for pensions, to authorize payment of pensions, to establish rules, to pay expenses, to invest funds, and to keep records.

EMPLOYEE CONTRIBUTIONS

Employees contribute 9.910% of salary.

NORMAL RETIREMENT PENSION BENEFIT

<u>Hired Prior to January 1, 2011</u>

Eligibility: Age 50 with at least 20 years of creditable service and no longer a police officer.

Benefit: 50% of final salary is payable commencing at retirement for 20 years of service. An additional 2.5% of final salary is added for each additional year of service in excess of 20 years of service (not to exceed 75% of final salary). "Final salary" is the salary attached to rank held on the last day of services or for 1 year prior to the last day, whichever is greater.

Annual Increase in Benefit: An officer will receive an initial increase of 1/12 of 3% for each month that has elapsed since retirement. The initial increase date will be the later of the first day of the month following the attainment of age 55, or the first anniversary of the date of retirement. Subsequent increases of 3% of the current pension amount (including prior increases) will be provided in each January thereafter.

NORMAL RETIREMENT PENSION BENEFIT - CONTINUED

Hired on or After January 1, 2011

Eligibility: Age 55 with at least 10 years of creditable service and no longer a police officer.

Benefit: 2.5% of final average salary for each year of service is payable at retirement (not to exceed 75% of final average salary). “Final average salary” is determined by dividing the highest total salary over 96 consecutive months of service in the last 120 months of service by the total number of months of service in the period. Annual salary for this purpose will not exceed $106,800, indexed by the lesser of 3% or ½ of the CPI-U for the 12 months ending with the September preceding each November 1. The salary cap will not decrease.

Annual Increase in Benefit: The initial increase date will be the January 1st following the later of the attainment of age 60, or the first anniversary of the date of retirement. Subsequent increases will occur on each subsequent January 1st. The first increase and subsequent increases will be the lesser of 3% of the original benefit or ½ of the CPI-U for the 12 months ending with the September preceding each November 1, applied to the original benefit.

EARLY RETIREMENT PENSION BENEFIT

Hired Prior to January 1, 2011

None

Hired on or After January 1, 2011

Eligibility: Age 50 with at least 10 years of creditable service and no longer a police officer.

Benefit: The normal retirement pension benefit reduced by ½ of 1% for each month that the police officer’s age is under age 55.

Annual Increase in Benefit: The initial increase date will be the January 1st following the later of the attainment of age 60, or the first anniversary of the date of retirement. Subsequent increases will occur on each subsequent January 1st. The first increase and subsequent increases will be the lesser of 3% of the original benefit or ½ of the CPI-U for the 12 months ending with the September preceding each November 1, applied to the original benefit.

PENSION TO SURVIVORS

Hired Prior to January 1, 2011

Death - Line of Duty

Surviving spouse is entitled to 100% of the salary attached to the rank of the police officer on the last day of service, payable immediately.

Death - Non-Duty

Current Pensioners (Including Disabled Pensioners): Surviving spouse to receive continuation of the pension.

Active Employee with 20+ Years of Service: Surviving spouse is entitled to the full pension earned by the police officer at the time of death.

Active Employee with 10-20 Years of service: Surviving spouse is entitled to 50% of the salary attached to the rank of the police officer on the last day of service, payable immediately

Annual Increase in Benefit: None.

Hired on or After January 1, 2011

Death - Line of Duty

Surviving spouse is entitled to 100% of the salary attached to the rank of the police officer on the last day of service, payable immediately.

Death - Non-Duty

Current Pensioners (Including Disabled Pensioners), Active Employee with 20+ Years of Service, and Active Employee with 10-20 Years of service: Surviving spouse to receive 66 ⅔% of the police officer's earned pension at the date of death.

Annual Increase in Benefit: The initial increase date will be the January 1st after the attainment of age 60 by the recipient of the survivor's pension. Subsequent increases will occur on each subsequent January 1st. The first increase and subsequent increases will be the lesser of 3% of the original benefit or ½ of the CPI-U for the 12 months ending with the September preceding each November 1, applied to the original survivor's benefit amount.

TERMINATION BENEFIT

Hired Prior to January 1, 2011

Eligibility: At least 8 years but less than 20 years of creditable service.

Benefit: 2.5% of final salary for each year of service is payable beginning at age 60. “Final salary” is based on the greater of salary during the last year of service prior to termination of employment or the pay rate for the police officer at termination of employment.

Annual Increase in Benefit: An officer will receive an initial increase of 3% on the first anniversary of the date of start of payments. Subsequent increases of 3% of the current pension amount will be provided in each January thereafter.

Hired on or After January 1, 2011

Eligibility: At least 10 years but less than 20 years of creditable service.

Benefit: 2.5% of final salary for each year of service is payable beginning at age 60. “Final salary” is based on the greater of salary during the last year of service prior to termination of employment or the pay rate for the police officer at termination of employment. Annual salary for this purpose will not exceed $106,800, indexed by the lesser of 3% or ½ of the CPI-U for the 12 months ending with the September preceding each November 1. The salary cap will not decrease.

Annual Increase in Benefit: The initial increase date will be the January 1st following the first payment. Subsequent increases will occur on each subsequent January 1st. The first increase and subsequent increases will be the lesser of 3% of the original benefit or ½ of the CPI-U for the 12 mos. ending with the September preceding each November 1, applied to the original benefit amount.

DISABILITY BENEFIT

Hired Prior to January 1, 2011

Eligibility: Disability (duty or non-duty).

Benefit: A police officer who becomes disabled on duty is entitled to receive a pension equal to the greater of 65% of final salary or the pension they would have been entitled to upon retirement at the time of disability. For a non-duty disability, the police officer is entitled to 50% of final salary. “Final salary” is based on the pay rate for the police officer on the last day of service.

Annual Increase in Benefit: The initial increase date will be the January 1st following the attainment of age 60. Subsequent increases will occur on each subsequent January 1st. The first increase is 3% of the original benefit for each full year that has passed since the pension began. Subsequent increases will be the 3% of the original pension benefit amount.

Hired on or after January 1, 2011

Eligibility: Disability (duty or non-duty).

Benefit: A police officer who becomes disabled on duty is entitled to receive a pension equal to the greater of 65% of final salary or the pension they would have been entitled to upon retirement at the time of disability. For a non-duty disability, the police officer is entitled to 50% of final salary. “Final salary” is based on the pay rate for the police officer on the last day of service.

Annual Increase in Benefit: The initial increase date will be the January 1st following the attainment of age 60. Subsequent increases will occur on each subsequent January 1st. The first increase and subsequent increases will be the lesser of 3% of the original benefit or ½ of the CPI-U for the 12 months ending with the September preceding each November 1, applied to the original benefit amount.

GLOSSARY OF TERMS

GLOSSARY OF TERMS

Actuarial Accrued Liability **–**The actuarial present value of future benefits based on employees' service rendered to the measurement date using the selected actuarial cost method. It is that portion of the Actuarial Present Value of plan benefits and expenses allocated to prior years of employment. It is not provided for by future Normal Costs.

Actuarial Cost Method **–** The method used to allocate the projected obligations of the plan over the working lifetimes of the plan participants.

Actuarial Value of Asset **–** The value of the assets used in the determination of the Unfunded Actuarial Accrued Liability. The Actuarial Value of Assets is related to Market Value of Assets, with adjustments made to spread unanticipated gains and losses for a given year over a period of several years. Actuarial Value of Assets is generally equally likely to fall above or below the Market Value of Assets, and generally does not experience as much volatility over time as the Market Value of Assets.

Asset Valuation Method **–** A valuation method designed to smooth random fluctuations in asset values. The objective underlying the use of an asset valuation method is to provide for the long-term stability of employer contributions.

Funding Policy **–** A set of procedures for a Pension Fund that outlines the "best practices" for funding the pension benefits based on the goals of the plan sponsor. A Funding Policy discusses items such as assumptions, Actuarial Cost Method, assets, and other parameters that will best help the sponsor meet their goal of working in the best interest of the plan participant.

Market Value of Assets **–** The value of the cash, bonds, securities and other assets held in the pension trust as of the measurement date.

Normal Cost **–**The present value of future benefits earned by employees during the current fiscal year. It is that portion of the Actuarial Present Value of benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.

Unfunded Actuarial Accrued Liability **–** The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets. The Unfunded Actuarial Accrued Liability is amortized over a period either in level dollar amounts or as a level percentage of projected payroll

EXHIBIT A

CHAPTER IV - PROMOTIONS - POLICE

* * * *

(b) Promotion to the Rank of Lieutenant

Promotion to the rank of Lieutenant will consist of a written examination, assessment center, review panel and oral interview.

1. The written examination shall be a valid, job related examination as adopted by the Board. Applicants not receiving a score of at least seventy percent (70%) on the exam shall have failed.

2. The assessment center may consist of at least three (3) ~~and up to five (5)~~ individuals trained in the assessment center technique to conduct the assessment center of the Lieutenant applicants. These individuals may be selected from area departments, other area emergency service agencies, other local agencies or community groups, or other providers of assessment centers. No more than one (1) assessor from any one department will participate in the assessment process.

* * * *

GMS APPLICATION NUMBER: <u>2016-H3015-IL-DJ</u>

MEMORANDUM OF UNDERSTANDING
2016 BYRNE JUSTICE ASSISTANCE GRANT (JAG) PROGRAM

THIS AGREEMENT is made and entered into this 21st day of June, 2016, by and between **THE COUNTY OF ROCK ISLAND, ILLINOIS ("County"), THE CITY OF MOLINE, ILLINOIS ("Moline")**, and **THE CITY OF ROCK ISLAND, ILLINOIS ("Rock Island")**, in regard to the joint application for funding available from the U. S. Department of Justice.

WITNESSETH:

WHEREAS, County, Moline, and Rock Island are eligible to submit a joint application for the aggregate of funds allocated to them under the 2016 Byrne Justice Assistance Grant (JAG) Program award; and

WHEREAS, the grant requires that one agency serve as the Fiscal Agent for the funds and administer the financial and programmic requirements; and

WHEREAS, Rock Island County will serve in the capacity of Fiscal Agent for the 2016 JAG grant, and as such will make application for the joint funding and comply with the subsequent reporting requirements; and

WHEREAS, this agreement is made subject to and enabled by Article VII, Section 10 of the Illinois Constitution of 1970 and the Intergovernmental Cooperation Act, 5 ILCS 220/1 *et seq.*

NOW THEREFORE, the participating agencies agree as follows:

<u>Grant Administration</u>. Rock Island County will complete the application process, based on the agreed upon allocation of funding and the individual projects as identified below for each of the participating agencies.

A. Upon receipt of the JAG funding, County will pay Moline the sum of $11,424.60 as its portion of the grant for its Less Lethal Weapon Deployment Project.

B. Upon receipt of the JAG funding, County will pay Rock Island the sum of $14,678.10 for the Police Officer Personnel Project.

C. Upon receipt of the JAG funding, County will retain the sum of $2,900.30 for the Law Enforcement Courthouse/Justice Center Security Enhancement Project.

D. Each participating agency will establish a trust fund account in which its portion of the JAG funding will be deposited.

E. Each participating agency will retain documentation of all expenditures made from the JAG funding during the course of the grant period.

F. Upon request by County, Moline and Rock Island will provide financial and program data from their respective individual JAG funded projects for preparation of the appropriate quarterly and semi-annual reports required under the grant.

G. County, as the Fiscal Agent, will prepare and submit the required quarterly financial and program reports required under the grant.

Term: The term of this agreement shall be for the four-year grant period, or until final close-out of the grant has been approved by the U. S. Department of Justice, whichever occurs first.

Miscellaneous: Each party to this agreement will be responsible for its own actions in providing services under this agreement and shall not be liable for any civil liability that may arise from the furnishing of services by the other parties.

CITY OF MOLINE, ILLINOIS

By: ______________________________
Mayor

Attest:

____
City Clerk

Approved As To Form:

____
City Attorney

CITY OF ROCK ISLAND, ILLINOIS

By: ______________________________
Mayor

Attest:

____
City Clerk

Approved As To Form:

____
City Attorney

COUNTY OF ROCK ISLAND, ILLINOIS

By: ______________________________
County Board Chairman

Attest:

____

Approved As To Form:

____

Return to:
City Clerk
619 16th Street
Moline, IL 61265

Project #1248
Parcel #07144-1

PERMANENT STORM SEWER & DRAINAGE
EASEMENT
FOR
CITY OF MOLINE, ILLINOIS

THIS INDENTURE WITNESSETH, that the Grantor, **Stephanie A. Acri, 3334 9th Street A, Moline, IL**, and in consideration of ONE and NO/100 DOLLARS ($1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, and of the covenants and agreements herein expressed, the undersigned hereby grant unto the City of Moline, Illinois, a municipal corporation, (herein "City") a permanent Easement in, over, across, and under the land as shown and described on the attached **exhibit "A."**

Said permanent Easement is for installation and maintenance of a storm sewer, site grading and related work on said tract of land. The Grantor herein assign, covenant and agree that no building, permanent or temporary, shall ever be constructed on the land herein above described; provided, however, the surface of said land may be used for fences or lawn improvements, which do not deny access to the City for maintenance or inspection purposes, or interfere with the operation of the above-mentioned facilities. The City of Moline, Illinois, by accepting this Easement, agrees to repair, at its sole expense, any damages or disturbances which may be caused to the land of the Grantor in relation to the installation, operation, and maintenance of said Easement.

This grant includes the right of ingress and egress to and from said above described tract of land for the uses and purposes herein set out.

To these covenants and agreements, the undersigned hereby binds itself and its assigns, forever.

The Grantor hereby releases and waives all rights under and by virtue of the Homestead Exemption Laws of the State.

IN WITNESS WHEREOF, the Grantor has hereunto set its Hand and Seal this 19th day of April, 2016.

Stephanie A. Acri

ACCEPTED BY THE CITY OF MOLINE

By: ______________________________
Scott Raes, Mayor

Attest: ___________________________
City Clerk

Approved as to form:

____
Maureen Riggs, City Attorney

Return to Grantee's Address
City of Moline
619 – 16th Street
Moline, IL 61265

STATE OF ILLINOIS__________)
__________________________)SS
COUNTY OF ROCK ISLAND____)

I, Brooke Frederick, a Notary Public in and for said County and State, do hereby certify that **Stephanie A. Acri** who is personally known to be the same person(s) whose name(s) is subscribed to the forgoing instrument appeared before me this day in person and acknowledges that **Stephanie A. Acri** signed, sealed and delivered said instrument as a free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and Notarial Seal this 19th day of April, 2016.

Brooke Frederick
Notary Public
My commission expires 02/04/20

OFFICIAL SEAL
BROOKE FREDERICK
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 02-04-2020

Rock Island County Prevailing Wage for June 2015

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng
ASBESTOS ABT-GEN		BLD		23.840	24.790	1.5	1.5	2.0	6.750	7.410	0.000	0.800
ASBESTOS ABT-GEN		HWY		25.650	26.650	1.5	1.5	2.0	6.450	7.060	0.000	0.800
ASBESTOS ABT-MEC		BLD		21.500	22.500	1.5	2.0	2.0	6.500	4.250	0.000	0.650
BOILERMAKER		BLD		38.000	41.000	2.0	2.0	2.0	7.070	15.99	0.000	0.400
BRICK MASON		BLD		27.270	28.770	1.5	1.5	2.0	8.950	6.020	0.000	0.530
CARPENTER		BLD		27.300	28.670	1.5	1.5	2.0	8.360	9.760	0.000	0.600
CARPENTER		HWY		29.250	31.000	1.5	1.5	2.0	10.00	12.71	0.000	0.450
CEMENT MASON		BLD		25.950	27.950	1.5	1.5	2.0	6.750	11.24	0.000	0.500
CEMENT MASON		HWY		25.840	26.840	1.5	1.5	2.0	6.750	11.66	0.000	0.500
CERAMIC TILE FNSHER		BLD		19.510	0.000	1.5	1.5	2.0	8.950	5.840	0.000	0.250
ELECTRIC PWR EQMT OP		ALL		31.510	0.000	1.5	1.5	2.0	5.630	8.830	0.000	0.320
ELECTRIC PWR GRNDMAN		ALL		26.330	0.000	1.5	1.5	2.0	5.530	7.370	0.000	0.260
ELECTRIC PWR LINEMAN		ALL		39.730	43.700	1.5	1.5	2.0	5.790	11.12	0.000	0.400
ELECTRICIAN		BLD		33.000	35.000	1.5	1.5	2.0	7.490	11.43	0.000	0.310
ELECTRONIC SYS TECH		BLD		24.490	26.240	1.5	1.5	2.0	7.270	5.780	0.000	0.310
ELEVATOR CONSTRUCTOR		BLD		40.470	45.530	2.0	2.0	2.0	13.57	14.21	3.240	0.600
GLAZIER		BLD		28.710	30.210	1.5	1.5	2.0	6.940	7.170	0.000	0.450
HT/FROST INSULATOR		BLD		29.830	31.030	1.5	1.5	2.0	6.130	12.05	0.000	0.900
IRON WORKER		ALL		29.750	32.130	1.5	1.5	2.0	9.390	11.53	1.300	0.690
LABORER		BLD	1	22.340	23.230	1.5	1.5	2.0	6.750	7.410	0.000	0.800
LABORER		BLD	2	23.840	24.790	1.5	1.5	2.0	6.750	7.410	0.000	0.800
LABORER		BLD	3	24.490	25.470	1.5	1.5	2.0	6.750	7.410	0.000	0.800
LABORER		HWY	1	26.090	27.090	1.5	1.5	2.0	6.750	9.710	0.000	0.800
LABORER		HWY	2	26.590	27.590	1.5	1.5	2.0	6.750	9.710	0.000	0.800
LABORER		HWY	3	27.220	28.220	1.5	1.5	2.0	6.750	9.710	0.000	0.800
LATHER		BLD		27.300	28.670	1.5	1.5	2.0	8.360	9.760	0.000	0.600
MACHINIST		BLD		44.350	46.850	1.5	1.5	2.0	6.760	8.950	1.850	0.000
MARBLE FINISHERS		BLD		19.510	0.000	1.5	1.5	2.0	8.950	5.840	0.000	0.250
MARBLE MASON		BLD		23.850	24.350	1.5	1.5	2.0	8.950	5.840	0.000	0.250
MILLWRIGHT	N	BLD		36.120	39.730	1.5	1.5	2.0	9.420	14.30	0.000	0.500
MILLWRIGHT	S	BLD		27.890	29.590	1.5	1.2	2.0	7.650	12.57	0.000	0.500
OPERATING ENGINEER		BLD	1	31.000	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		BLD	2	28.350	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		BLD	3	27.300	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		BLD	4	31.250	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		BLD	5	31.750	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		BLD	6	32.250	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		BLD	7	32.000	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		HWY	1	31.000	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		HWY	2	28.350	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		HWY	3	27.300	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		HWY	4	31.250	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		HWY	5	31.750	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		HWY	6	32.250	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		HWY	7	31.500	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
OPERATING ENGINEER		HWY	8	32.000	33.000	1.5	1.5	2.0	16.10	8.650	2.000	0.900
PAINTER		ALL		27.820	28.820	1.5	1.5	1.5	5.250	6.600	0.000	0.600
PAINTER OVER 30FT		ALL		29.820	30.820	1.5	1.5	1.5	5.250	6.600	0.000	0.600
PAINTER PWR EQMT		ALL		28.320	29.320	1.5	1.5	1.5	5.250	6.600	0.000	0.600
PILEDRIVER		BLD		27.300	28.670	1.5	1.5	2.0	8.360	9.760	0.000	0.600
PILEDRIVER		HWY		29.250	31.000	1.5	1.5	2.0	10.00	12.71	0.000	0.450
PIPEFITTER		ALL		37.650	41.420	1.5	1.5	2.0	6.000	12.95	0.000	1.150
PLASTERER		BLD		28.110	30.110	1.5	1.5	2.0	7.500	7.000	0.000	0.600
PLUMBER		ALL		37.650	41.420	1.5	1.5	2.0	6.000	12.95	0.000	1.150
ROOFER		BLD		26.140	27.390	1.5	1.5	2.0	9.000	6.420	0.000	0.280
SHEETMETAL WORKER		BLD		30.540	32.610	1.5	1.5	2.0	7.140	11.52	0.000	0.540
SPRINKLER FITTER		BLD		37.120	39.870	1.5	1.5	2.0	8.420	8.500	0.000	0.350
STONE MASON		BLD		27.270	28.770	1.5	1.5	2.0	8.950	6.020	0.000	0.530
~~SURVEY WORKER~~ -> NOT IN EFFECT		ALL		27.130	28.130	1.5	1.5	2.0	6.750	7.410	0.000	0.800
TERRAZZO FINISHER		BLD		19.510	0.000	1.5	1.5	2.0	8.950	5.840	0.000	0.250
TERRAZZO MASON		BLD		23.850	24.350	1.5	1.5	2.0	8.950	5.840	0.000	0.250
TILE LAYER		BLD		27.300	28.670	1.5	1.5	2.0	8.360	9.760	0.000	0.600
TILE MASON		BLD		23.850	24.350	1.5	1.5	2.0	8.950	5.840	0.000	0.250
TRUCK DRIVER		ALL	1	33.100	36.640	1.5	1.5	2.0	11.10	5.425	0.000	0.250
TRUCK DRIVER		ALL	2	33.560	36.640	1.5	1.5	2.0	11.10	5.425	0.000	0.250
TRUCK DRIVER		ALL	3	33.820	36.640	1.5	1.5	2.0	11.10	5.425	0.000	0.250
TRUCK DRIVER		ALL	4	34.100	36.640	1.5	1.5	2.0	11.10	5.425	0.000	0.250
TRUCK DRIVER		ALL	5	35.000	36.640	1.5	1.5	2.0	11.10	5.425	0.000	0.250

TRUCK DRIVER	O&C	1	26.480	29.310	1.5	1.5	2.0	11.10	5.425	0.000	0.250
TRUCK DRIVER	O&C	2	26.850	29.310	1.5	1.5	2.0	11.10	5.425	0.000	0.250
TRUCK DRIVER	O&C	3	27.060	29.310	1.5	1.5	2.0	11.10	5.425	0.000	0.250
TRUCK DRIVER	O&C	4	27.280	29.310	1.5	1.5	2.0	11.10	5.425	0.000	0.250
TRUCK DRIVER	O&C	5	28.000	29.310	1.5	1.5	2.0	11.10	5.425	0.000	0.250
TUCKPOINTER	BLD		27.270	28.770	1.5	1.5	2.0	8.950	6.020	0.000	0.530

Legend: RG (Region)
TYP (Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers)
C (Class)
Base (Base Wage Rate)
FRMAN (Foreman Rate)
M-F>8 (OT required for any hour greater than 8 worked each day, Mon through Fri.
OSA (Overtime (OT) is required for every hour worked on Saturday)
OSH (Overtime is required for every hour worked on Sunday and Holidays)
H/W (Health & Welfare Insurance)
Pensn (Pension)
Vac (Vacation)
Trng (Training)

Explanations

ROCK ISLAND COUNTY

MILLWRIGHT (SOUTH) - South of Interstate 80.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

ELECTRONIC SYSTEMS TECHNICIAN

Installing, assembling and maintaining sound and intercom, protection alarm (security), master antenna television, closed circuit television, computer hardware and software programming and installation to the network's outlet and input (EXCLUDING all cabling, power and cable termination work historically performed by wiremen), door monitoring and control, nurse and emergency call programming and installation to the system's outlet and input (EXCLUDING all cabling, power and cable termination work historically performed by wiremen), clock and timing; and the installation and maintenance of transmit and receive antennas, transmitters, receivers, and associated apparatus which operates in conjunction with the above systems. All work associated with these system installations will be included EXCEPT (1) installation of protective metallic conduit, excluding less than ten-foot runs strictly for protection of cable, and (2) 120 volt AC (or higher) power wiring and associated hardware.

LABORER - BUILDING

Class 1: General laborer, carpenter tender, tool cribman, salamander tender, flagman, form handler, floor sweeper, material handler, fencing laborer, cleaning lumber, landscaper, unloading explosives, laying of sod, planting/removal of trees, wrecking laborer, unloading of Re-Bars, scaffold worker, signal man on crane.

Class 2: Handling of materials treated with creosote, kettle men, prime mover or motorized unit used for wet concrete or handling of building materials, vibrator operator, motar mixer, power tools used under the jurisdiction of laborers, sand points, gunnite nozzle men, welders, cutters, burners and torchmen, chain saw operator, jackhammer and drill operators, paving breakers, air tamping hammerman, concrete saw operator, concrete burning machine operator, coring machine operator - hod carrier and plasterer tender.

Class 3: Caisson worker after 6 foot depth, dynamite man, asbestos abatement worker, tunnel miners - mixerman (plaster only), pump man.

LABORER - HEAVY & HIGHWAY

Class 1: Rod or chain man, flagman, dumpman, spotter, broom man, landscaper, planting and removal of trees, fencing laborers, dispatcher, ticket writer, scaleman, cleaning of forms or lumber (in bone yard), laying of sod, moving and/or maintenance of flares and barricades.
Class 2: Operation of all hand, electric, air, hydraulic or mechanically powered tools under the jurisdiction of Laborers' including jackhammers, tempers, air spades, augers, concrete saws, chain saws, utility saws, rock drills, vibrators, mortar mixer, power and hand saw (when clearing timber) general laborer (not elsewhere covered), craft-tender, material checker, material handler, form handler, concrete dumper, puddler, form setter helper, explosives handler, dynamite helper, center strip, reinforcing in concrete, wire mesh handler and installer, prime mover or any mechanical device taking the place of concrete buggy or wheelbarrow, sandpoint setter, asphalt kettleman. Sheeting hammer drivers, laying and jointing of telephone conduit, gas distribution men, pipe setter on laterals, drain tiles, culvert pipe, and storm sewer catch basin leads, catch basins, manholes, batch dumpers, tank cleaners, cofferdam workers, bankman on floating plant, jointman with pipelayers. Back-up man (corker, joint maker) with pipe setter on sewer and water mains, batterboard man or laser operator on sewer and water main, labor in ditch, or tunnel, on sewer or water mains and telephone conduit. Cutters, burners, torchman, gravel box man, asphalt plant laborers, concrete plant laborer, deck hand, unloading of steel and rebar, laser beam operator, wrecking laborers.

Class 3: Asphalt raker or luteman, head form setter, head dynamite man (powderman) head string or wireline man (on paving), pipe setter on sewer or water main, gunnite nozzle man, asphalt or concrete curb machine operator, head grade man, head tunnel miner, concrete burning machine operator, coring machine operator, welder.

MATERIAL TESTER/INSPECTOR I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER/INSPECTOR II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEERS - BUILDING

Class 1. Shovel; Concrete Spreader; Dipper Dredge Operator; Dipper Dredge Crane man; Dual Purpose Truck (boom, Boom, Winch, etc.); Mechanic-Welder; Pile Driver; Boom Tractor or Side Boom; Trenching Machine (40 H.P. and over); Building Hoist (1, 2 or 3 drums); Cleaning and Priming Machine; Backfiller (throw bucket); Locomotive Engineer; Concrete Paver; Slip Form Paver; Caisson Augering Machines; Mucking Machine; Asphalt Heater-Planer Unit; Laser Screed; Pug Mill; Concrete Conveyor or Pump; Mechanical loaded Log Chippers or similar machines; Group Equipment Greaser; Off-Road Haul Units; Pipe Bending; Automatic Curbing Machines; Blastholer; Self-Propelled Rotary Drill or similar machines; Work Boat; Combination Concrete Finishing Machine and Float; Asphalt Paver Screed Operator; Forklift (6,000 lb. cap. or over or working heights 28 ft. and above); Chip Spreader; Straddle Carrier; Asphalt Paver; Asphalt Plant Operator; Boring Machine (Directional, Vertical, or Horizontal); Central Redi-Mix Plant Operator; Combination Backhoe Front End loader; Concrete Breaker or Hydro-Hammer (excluding walk-behinds); Concrete Wheel Saw (Large self-propelled - excluding walk-behinds); Crusher (Stone, Concrete, Asphalt, etc.); Curing-Tinning Machine; Excavator; Farm-type Tractor Operating Scoop or Scraper or with Power Attachment; Grader; Motor Grader; Motor Patrol; Auto Grader; Form Grader; Pull Grader; Sub Grader; Elevating Grader; Guard Rail Post Driver; Hoists; Hydraulic Dredge Leverman or Engineer; Hydro-Vac truck mounted or pull type (excluding hose work), and similar equipment; Loader (Track, Rubber Tire, or Articulated); Milling Machine (excluding walk-behinds); Road Widener-Shoulder Spreader; Scraper (Self-Propelled); Self-Propelled Roller or Tire Roller (on asphalt or Blacktop); Sheep Foot or Pad Foot Compactor (excluding walk-behinds); Steel Track-Type Tractor (Dozer, Push Cat, etc.); Transfer or Shuttle Buggy (excluding motorized wheel barrows and Georgia buggies).

Class 2. Asphalt Booster; Fireman and Pump Operator at Asphalt Plant; Mud Jack; Distributor; Self-propelled Roller (other than provided for in Class I); Pump Operator (more than one well-point pump); Trench

Machine (under 40 H.P.); Forklift (less than 6,000 lb. cap. or working heights below 28 ft.); Gypsum Pump; Conveyor over 20 H.P.; Light Plant; Boiler (Engineer or Fireman); Mechanical Broom; Driver on Truck Crane or similar machines; Elevator (Permanent inside or Temporary outside); Farm-Type Tractor (without Power Attachment); Grout Pump (excluding hose work).

Class 3. Skid Loader; Oiler; Mechanic's Helper; Mechanical Heater (other than steam boiler); Small Outboard Motor Boat (Safety Boat and Life Boat); Engine Driven Welding Machine; Water Pumps; Air Compressor (400 c.f.m. or over); Deck Engineers.

Class 4. Leadman - Mechanic or Equipment Greaser.

Class 5. Track Excavator with Bucket (4 cubic yard and up to but not including 6 cubic yard).

Class 6. Track Excavator with Bucket (6 cubic yard and over).

Class 7. Crane (Friction or Hydraulic, regardless of size or attachments); Tow or Push Boat.

OPERATING ENGINEERS- HIGHWAY

Class 1. Shovel; Concrete Spreader; Dipper Dredge Operator; Dipper Dredge Crane man; Dual Purpose Truck (Boom, Winch, etc.); Mechanic-Welder; Pile Driver; Boom Tractor or Side Boom; Building Hoist (1, 2 or 3 drums); Cleaning and Priming Machine; Backfiller (throw bucket); Locomotive Engineer; Concrete Paver; Slip Form Paver; Caisson Augering Machines; Mucking Machine; Asphalt Heater Planer Unit; Laser Screed; Pug Mill; Concrete Conveyor or Pump (excluding truck-mounted); Mechanical loaded Log Chippers or similar machines; Group Equipment Greaser; off-road haul units; Pipe Bending; Automatic Curbing Machines; Blastholer; Self-propelled Rotary Drill or similar machines; Work Boat; Combination Concrete Finishing Machine and Float; Asphalt Paver Screed Operator; Forklift (6,000 lb. cap. or over or working heights above 28 ft.); Chip Spreader; Asphalt Paver; Asphalt Plant Operator; Boring Machine (Directional, Vertical, or Horizontal); Central Redi-Mix Plant Operator; Combination Backhoe Front End loader; Concrete Breaker or Hydro-Hammer (excluding walk-behinds); Concrete Wheel Saw (Large self-propelled - excluding walk-behinds); Crusher (Stone, Concrete, Asphalt, etc.); Curing-Tinning Machine; Excavator; Farm-Type Tractor Operating Scoop or Scraper with Power Attachment; Grader; Motor Grader; Motor Patrol; Auto Grader; Form Grader; Pull Grader; Sub Grader; Elevating Grader; Guard Rail Post Driver; Hoists; Hydraulic Dredge Leverman or Engineer; Hydro-Vac truck mounted or pull type, and similar equipment; Loader (Track, Rubber Tire, or Articulated); Milling Machine (excluding walk-behinds); Road Widener-Shoulder Spreader; Scraper (self-propelled); Self-propelled Roller or Tire Roller (on asphalt or Blacktop); Sheep Foot or Pad Foot Compactor (excluding walk-behinds); Steel Track-Type Tractor (Dozer, Push Cat, etc.); Transfer or Shuttle Buggy (excluding motorized wheel barrows and Georgia buggies); Trenching Machine (40 H.P. and over).

Class 2. Asphalt Booster; Fireman and Pump Operator at Asphalt Plant; Mud Jack; Farm-Type Tractor without Power attachment; Distributor; Straddle Carrier; Self-propelled Roller or Compactor (other than provided for in Class I); Pump Operator (more than one well-point pump); Trench Machine (under 40 H.P.); Forklift (less than 6,000 lb. capacity or working heights below 28 ft.); Conveyor over 20 H.P.; Air Compressor (400 c.f.m. or over); Light Plant; Boiler (Engineer or Fireman); Mechanical Broom; Driver on Truck Crane or similar machines; Elevator (Permanent inside or Temporary outside); Grout Pump (excluding hose work).

Class 3. Oiler; Mechanic's Helper; Mechanical Heater (other than steam boiler); Small Outboard Motor Boat (Safety Boat and Life Boat); Engine Driven Welding Machine; skid steer.

Class 4. Leadman - Mechanic or Equipment Greaser.

Class 5. Track Excavator with Bucket (4 cubic yard and up to but not including 6 cubic yard).

Class 6. Track Excavator with Bucket (6 cubic yard and over).

Class 7. Truck mounted Concrete Conveyor or Pumps Extending to 90 ft. or more.

Class 8. Crane (Friction or Hydraulic, regardless of size or attachments); Tow or Push Boat.

SURVEY WORKER - Operated survey equipment including data collectors, G.P.S. and robotic instruments, as well as conventional levels and transits.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION
Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials,

tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vactor trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.
TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.