

AGENDA FOR THE CITY OF BARABOO PUBLIC SAFETY COMMITTEE

Members noticed must notify Committee Chairman Wedekind at least 24 hours before the meeting if they will not be able to attend.

Date and Time: Monday, January 25, 2016 – **1:00 P.M.**
Location: City Services Center - 450 Roundhouse Court, Baraboo, Wisconsin
Members Noticed: Phil Wedekind, Tom Kolb, Michael Plautz
Others Noticed: Administrator E. Geick, Mayor M. Palm, City Attorney M. Reitz, Police Chief M. Schauf, Fire Chief K. Stieve, T. Pinion, R. Koss, W. Peterson, E. Robkin, Gary Meeker, Jamie Budiac, Tom Fitzwilliams, Andy Zimmer, Media, and Library.

1. Call to Order

- a. Note compliance with the Open Meeting Law.
- b. Roll call.
- c. Approve agenda.
- d. Approve minutes of October 26, 2015 Public Safety Committee meeting.

2. New Business

- a. Request for 2nd driveway opening at 1018 3rd Street by Gary Meeker
- b. Review and approve after-the-fact special assessments for the 2014 South Blvd Utility Extensions.
- c. Review and approve levying special assessments for new sidewalk and curb & gutter as part of the 2016 Street Reconstruction projects.
- d. Review and approved contract with Foundation Supportworks of Wisconsin to install a helical pile system to stabilize and lift grade beam and concrete floor slabs at City Services Center.
- e. Review and approve updated Sewer Service Area Plan.
- f. Review and approve contract for design services with MSA Professional Services for the 2016 Water Street water main bursting project.
- g. Review and approve monthly billing adjustments/credits for sewer and water customers for October, November, and December, 2015.
- h. Discuss opportunities to help finance annual street improvements using a vehicle registration fee.
- i. Review and approve the addition of two more shipping containers to the Fire Department's live-fire training prop on City-owned property on the east side of Briar Street, south of former DPW garage.

3. Reports

- a. Utility Superintendent's Report
- b. Street Superintendent's Report
- c. Police Chief's Report
- d. Fire Chief's Report

4. Adjournment

Phil Wedekind, Chairperson

Agenda Prepared by Kris Jackson
Agenda Posted by Kris Jackson January 20, 2016

PLEASE TAKE NOTICE that any person who has a qualifying disability as defined by the Americans with Disabilities Act, that requires the meeting or materials at the meeting to be in an accessible location or format, should contact the Municipal Clerk (135 Fourth Street or phone 355-2700) during regular business hours at least 48 hours before the meeting so that reasonable arrangements can be made to accommodate each request.

It is possible that members of and possibly a quorum of members of other governmental bodies of the City of Baraboo, who are not members of the above Council, committee, commission, or board, may be in attendance at the above stated meeting to gather information. However, no formal action will be taken by any governmental body at the above stated meeting, **other than the Council, committee, commission, or board identified in the caption of this notice.**

FOR INFORMATION ONLY, NOT TO BE PUBLISHED

Minutes of the Public Safety Committee Meeting – October 26, 2015

Members Present: Phil Wedekind, Tom Kolb, and Mike Plautz. **Others Present:** Tom Pinion, Wade Peterson, Mark Schauf, Kevin Stieve, Ben Bromley, Bernadette Greenwood, Melissa McDonald, and Kris Jackson.

Call to Order - Committee Chairman Phil Wedekind called the meeting to order at 3:30 P.M. at the City Service Building, 450 Roundhouse Court, Baraboo, Wisconsin. Compliance with the Open Meeting Law was noted. It was moved by Kolb, seconded by Plautz to approve the agenda as posted and by voice vote, the motion carried. It was moved by Kolb, seconded by Plautz to approve the minutes of the September 28, 2015 meeting. By voice vote the motion carried.

New Business

- a. Discuss opportunities to help finance annual street improvements using a vehicle registration fee – Pinion said that this was discussed last month and he doesn't have a lot of new information. He said the League of Municipalities has a link on their site with some information. He said that there are seven municipalities within the State, and three Counties that have imposed Wheel Taxes. Wedekind asked how many vehicles are registered in the City and Pinion said, according to the DOT's official records there are 16,583, of that the City would maintain 99%, which would mean \$164,000 in annual revenue is the potential for the City. He said this fee would be collected as part of the vehicle registration. It was the consensus of the Committee to open this up to the public for more discussion. Kolb thought something could be placed in the Newscape. Plautz suggested a Referendum. Pinion said that he would solicit some community feedback, using Facebook, and meeting with Ben Bromley to see if local discussion can be generated and include an article in Newscape.
- b. Review Request from Jack Young Middle School's Science Club to promote a "clean watershed program" – Bernadette Greenwood said that a lot a Watershed Quality at the 6th grade level at the Middle School and also through Science Club they try to do Community Service Projects She said the idea of putting markers on the storm sewers has come up and a lot of people have the perception that the storm sewers go through a treatment center; however, it is know that they don't, it goes straight to the river. She went on to say that this is seen in Madison the markers are bright colored. She said that these would be bright colored and are glued to the storm sewers and are permanent. She said that they are hoping to make this a yearly project with the kids. She went on to say that they are approximately \$3-\$4 a piece, so raising the money, depending on how many storm sewers there are, the project could be done over a five to ten year period. Melissa McDonald said that they could help raise the money obviously to support them through the kids. McDonald said that the Middle School has approximately 700 students and 120 are in Science Club, and they usually have about 50 or 60 involved in service projects when they leave from the school. She said that they use to do their spring service trip to Badger, where they did prairie maintenance; but because of the changes at Badger that has been difficult, so they are looking for something new. Pinion said that the longevity of these stickers is very good and increasing the awareness is good. It was the consensus of the Committee to allow the Science Club to move forward with this project. McDonald then said that they are introducing a project for the 6th graders that has to do with filtration rates and they are working with an Engineer at MSA and something with Wastewater Treatment. It was moved by Kolb, seconded to Plautz to approve the request as presented. Motion carried unanimously.
- c. Review and recommendation on continuing use of Air Curtain Destructor to burn brush – Pinion said that a few months ago when the neighborhood meeting was held regarding the fire prop there were no reservations about that; however, when brush is burned and when the City composts it stinks and creates ash. He said that Bob Koss assumed that this created a moratorium on continued use of the burner; therefore, as a trial he put together an arrangement with a local contractor to come in and actually grind the brush, which turns it into mulch and then eventually the contractor takes the mulch. He said that this would be approximately \$16,000/year out of the pocket, and he is not sure whether the City wants to discontinue the use of the brush burner. Wedekind asked if there was a contract for this. Pinion said that a purchase order has been done with him and there are a host of other communities that have the same arrangement with him, so it is a legitimate contractor that will be in it for the long haul with good equipment; however, the City does have a tremendous investment in the burner and feels that it could still be used. Wedekind feels that the City should keep it. Pinion said that it is one or the other, if the City keeps it, it should be used and not spend the extra money to grind. Wedekind thought the brush burner was \$100,000, and Pinion said if that was the case it would be about a six year payback. Pinion said that it isn't used a lot, we try and restrict burning to the wintertime when it's the most convenient; however, there are times when it is a low fire danger and the summertime when it is low windows, we can still burn brush. Kolb said that we still have complaints and he asked the possibility of the City purchasing their own grinder and sell the brush burner and perhaps sell the mulch in a marketplace. Pinion said that we give the mulch away and can't, so he doesn't know if it is reasonable to consider that a potential revenue stream to off-set the cost. Pinion said that he thinks that the contractor's end of it is more for agriculture; the mulch is being used for bedding. Kolb feels that, if that is the case, there may be a market for it. Kolb would like to see more information on it. Pinion said that if Committee would like this to be pursued further and Pinion said that he could put together more information. He said that he felt Koss's opinion was that there was an indirect directive to say no more burning. Pinion didn't feel that this is the case, and when burning is done under the right conditions it doesn't seem to create any problems. Kolb feels if the City did its own grinding, it could be done on a more regular basis. Plautz asked the value of the burner. Pinion said that he doesn't know, it is ten years old and doesn't feel that there would be a big demand; however, it works well. It was consensus of the Committee to get more information of doing grinding in-house.
- d. Review and recommendation on Snow and Ice Removal Proposal – Chief Schauf when property owners do not shovel within 24 hours notice is given that they need to do so and if another 24 hours pass a contractor is hired to remove the snow. He said that the City has used Sunrise Property Care to remove snow and ice from sidewalks for the past 8 to ten years. He said that this is a two-year contract and he sent out Request for Proposals to known contractors in the area, as well as posting it on Facebook and receive one response back from Sunrise Property Care. He said that they have provided good service and their proposal appears to be consistent with good practice and would recommend awarding them the contract. It was moved by Kolb, seconded by Plautz to award the Snow and Ice Removal contract to Sunrise Property Care. Motion carried unanimously.

Reports

- a. Utility Superintendent's Report – Peterson said that there is a new hire starting in the Wastewater Treatment Plant on November 2 and a water position that is being filled on November 9. Kolb asked if he received any feedback on the Water Tower. Peterson said that the City was in a national competition for tower of the year, but it is no longer in the running.
- b. Street Superintendent's Report – Pinion said that both leaves vacs are out picking up leaves, along with street sweepers. He said alley projects and top soiling are done. He said that the street project has been closed out. He said he is waiting for some feedback on the budget. He said that things are pretty

well set up for snow and ice operations. Kolb asked Schauf if his department would be as diligent this year as last year regarding citizens blowing leaves into the street, Peterson answered in the affirmative.

- c. Police Chief's Report – Chief Schauf said that the department has had a busy October. He said that there was a gentleman that lives in the upper south side that over the weekend was using some illegal drugs, pulled out a gun and shot a hole in a wall turned into, what almost should have been a tactical situation when he went down to Bluffview, he actually pulled out a gun at a deputy and pulled the trigger several times. He said that it was poor firearm maintenance is the only reason the gun didn't go off. He pointed out how the staff members are working to keep this community safe, it can't be overstated how much appreciate he has for Chief Stieve, Engineer Pinion, Street Superintendent Koss, and their guys. He said that his department can't make these things happen without out help, starting with the homicide and going to the tactical situation last week. He said just utilizing the homicide as an example, it was a highly complex scene initially, and it only got worse because two different search warrants had to be served and tactical situations. Complex, tense dynamic, rapidly evolving, was all handled by local resources. He said that the only external resource that was utilized, except for in-county type was the crime lab, which consisted of one supervisor and one photographer, everything else done was done by the people that serve under him as officers. Kolb asked why the parameter was so big for the suicide situation. Schauf said it was big partially because of where it started. He said that there is an exterior and inner parameter, the exterior parameter is basically designed to keep everyone out, and the inner parameter is to keep the subject in. He said that it ended up so big because of how far everything was away, plus we knew he had a loaded gun and bullets can travel over a mile very easily. Wedekind asked about the drug problem. Schauf said that it is about the same. He said that the County is working on a drug court, which could be beneficial. He said a program called CARE Wisconsin is a program out of St. Vincent's down in Sauk. They have a drug called Vivatrol, which is literally the magic bullet when it comes to heroin. Wedekind asked if the department has it. Schauf said that they don't have it yet; however, it sounds like it is coming to the community, because the State Department of Human Services has a multi-million dollar grant that they are giving to the County to run that program. Wedekind has if the ambulance crews have it. Schauf stated that they don't have Vivatrol. Kolb said that Vivatrol is a treatment program. Schauf said that if someone would use heroin today, their body would want heroin for up to two years. Once an addict is clean and all the drug are out of their system, Vivatrol can be taken orally or by injection and it intercepts the brain pattern and makes it so they can actually resist. Wedekind asked where the heroin was coming from, and Schauf said that most of it is coming out of Chicago. He went on to say that they are seeing a resurgent of cocaine.
- d. Fire Chief's Report – Chief Stieve said that there will be a live fire tonight, and he isn't sure if there will be any more before the end of year or spring. He said the Swearing In Ceremony, Pining, and Retirement party will be held on November 1

ADJOURNMENT – Kolb moved, Plautz seconded to adjourn the meeting at 4:11 p.m. Motion carried.

Respectfully submitted,

Phil Wedekind, Chairman

MEMORANDUM

City of Baraboo

Date: January 20, 2016
To: Public Safety Committee
From: Tom Pinion
Re: Background for January 25th Meeting @ 1:00 pm

New Business:

Item A. The owner of the single-family residence at 1018 3rd Street is again requesting a second driveway opening on the east side of his property. He made a prior request in August 2012. Several years ago, he purchased the property, which includes an attached garage with a driveway on the west side of the property. There is a small “barn” in the back yard along the east property line and he has since built a storage shed next to it. He would like to install a second driveway apron to allow access to the barn and the new shed. He does not intend to use it on a regular basis so he does not intend to make any driveway improvements other than the apron; the driveway will remain grass. Section 8.09 of the Code of Ordinance limits the number of driveways – “No more than one driveway shall be constructed for any residential lot or premises without the approval of the Public Safety Committee.” Mr. Meeker plans to attend the meeting to present his request.

Item B. In June of 2014, sewer and water were extended across South Blvd in advance of its reconstruction to provide future service to vacant, developable lands without having to open cut the roadway. To preserve the City’s abilities to recoup the cost of these improvements, I am recommending that we levy special assessments for these improvements, albeit after-the-fact. New sanitary sewer and water main was stubbed south across South Blvd in two locations – one at Industrial Court and the other approximately 300’ west of Industrial Court. In addition, water main was stubbed north in two locations – one across from the Deppe Enterprises/WCCU/Dollar Tree shared driveway and the other approximately 600’ east of that driveway. The Wisconsin Administrative Code affords the Utility the opportunity to recover these costs when a new customer connects provided those customer(s) connect within 10 years of the date of installation. Since these extensions serve property that may not develop within that time frame, it is prudent to memorialize these costs as deferred special assessments in accordance with Wisconsin’s statutory procedure - a three step process that includes a Preliminary Resolution to declare the City’s intent to levy special assessments followed by a public hearing and concluded with a Final Resolution that levies the special assessments.

You may recall a similar action in 2012 when special assessments were levied for several utility projects that had been completed within the preceding decade.

Item C. Attached is a copy of the Preliminary Resolution that the Common Council will be considering on February 9th, with your approval, of course. This will be the first step of the 3-step assessment procedure for new sidewalk and curb & gutter. I have also included the corresponding Engineer’s Report for the assessment projects that are planned for 2016.

Item D. The City Services Center was built in 2001. About 8 years ago, staff began to notice signs that the building was “settling”. Doors began to “bind” against the frames, drywall started to separate at the seams, floors began to settle, etc. The situation continued for several years and by all accounts it has stopped. Two years ago, we had a building foundation specialist, Foundation Supportworks of Wisconsin, come in to survey the building, establish a baseline for future measurements, and estimate the settling that has occurred. They returned last summer to re-survey the building and confirmed that no additional settling has occurred. They submitted a Proposal to install helical piles to raise the grade beam back to its original elevation and level the surrounding concrete slabs. Money was requested in the 2016 budget for this work and it was subsequently approved. We are asking that you approve the Proposal from Foundation Supportworks of Wisconsin to complete this work. This is a specialized service so I was unable to obtain any other proposals. I reviewed this Proposal with two structural engineers, one of whom was involved in the original design of the building, and they both believe this should resolve the problem.

Item E. In 2006, the City adopted a Sanitary Sewer Service Area Plan (SSAP) in accordance with the Wisconsin Dept. of Natural Resources regulations. Those regulations require the report be updated every 5 years and an update is due in 2015. MSA drafted the original SSAP as well as the first 5-year update in 2010 and last year you approved their hiring again to update to the SSAP. The update is complete and we will have a representative from MSA at the meeting to go over the minor changes to the document. We will need Council approval so we can submit it to the final document to the DNR.

Item F. For the past several years, the Water Utility has had issues with the water main on Water Street in front of Circus World. The pipe is a Universal Pipe that is more than 100 years old. The Universal pipe has joints every 6 feet (compared to 20-foot lengths for ductile iron pipe) and there are only 2 steel bolts that hold the pipe joints together; there are no gaskets. That water main is buried in some “nasty” blue/gray clay material and considering the age of the pipe and poor soil conditions, the steel bolts are literally rusting away causing the joint(s) to leak.

To minimize the disruption to travel on Water Street and the inconvenience to Circus World, the Utility is interested in utilizing a trenchless technology to replace the existing water main in lieu of the traditional “open cut” approach.

Two years ago, we investigated the possibility of lining this water main only to discover that the DNR would not approve it for a 6” diameter main. Last fall, we went to Richland Center to observe another trenchless technology, which was a water main pipe bursting project and we believe this method of construction would be very appropriate for Water Street. MSA Professional Services was the Engineer on that Richland Center project and we asked them for a Proposal to provide design services for this project. Wade and I have both reviewed MSA’s Proposal and are recommending that you approve a design contract for this project in the amount of \$9,200.

Item G. Beginning last year, the Water Utility staff began processing utility payments that customers send via the US Mail. Since this was a minor departure from existing operations, the City Clerk’s Office worked with the Utility Office to develop a set of internal accounting controls to keep the respective auditors “happy”. Part of those controls is to have the Committee also review and acknowledge the monthly billing adjustments/credits that are less than \$500, which were previously approved by the Utility Superintendent. Accordingly, we have included a report showing the adjustments/credits for the past three months. This will be a standing agenda item for the Committee’s consideration from now on.

Item H. Municipalities are constantly looking for ways to increase their annual revenues and avoid any adverse impacts to the annual levy limits. Accordingly, a “wheel tax” is becoming increasingly popular. Currently, the WDOT collects wheel taxes for 10 municipalities and 3 counties – see list below. According to the WDOT’s records, there are 16,583 registered vehicles in the City of Baraboo. As an example, a \$10 wheel tax would generate \$165,830 annually and the City would net 99% of that amount or \$164,171.

Current wheel tax jurisdictions

WisDOT currently collects a wheel tax for the following:

- Municipalities
 - Appleton (city; \$20 beginning February 2015)
 - Arena (township; \$20 beginning April 2015)
 - Beloit (city; \$20 beginning February 2015)
 - Fort Atkinson (city; \$20 beginning for March 2016 registrations)
 - Gillett (city; \$20 beginning July 2015)
 - Janesville (city; \$10, changing to \$20 for January 2016 registrations)
 - Kaukauna (city; \$10 beginning August 2015)
 - Prairie du Sac (village; \$20 beginning for January 2016 registrations)
 - Milwaukee (city; \$20)
 - Sheboygan (city; \$20 beginning for February 2016 registrations)
- Counties
 - Chippewa County (\$10 beginning January 2015)
 - Iowa County (\$20 beginning February 2015)
 - St. Croix County (\$10)

See you on Monday!

NOVEMBER 30, 2015

GARY MEYER

THIRD STREET

ORIGINAL PLAT BOUNDARY

297.28'

S89°47'40"E-112.00'

88.00'

156'

Proposed
36' ACCESS
14' x 11'

CURRENT
DRIVE

31°

60' x 26'
HOUSE

39'

IVAN LUCK

0.38 AC.

BARN
24' x 18'

SHOP
GARAGE
ENCROACHMENT
24' x 12'
18'

150.00'
N0°04'W

150.00'
S0°04'E

CEDAR FE
POST
7.5'

112.00'

N89°47'40"W

L10

9

8

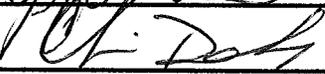
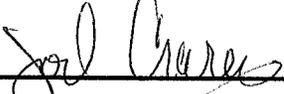
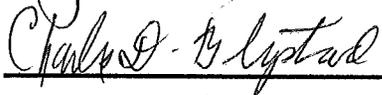
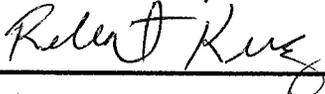
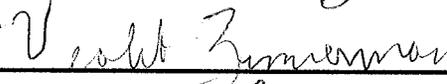
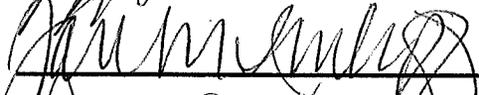
BLOCK 2

N0°04'W
283.88'

W H JACOB'S SUBDIVISION

November 29, 2015

We, the undersigned, are in agreement that the property at 1018 3rd Street, Baraboo, Wisconsin having two accesses (two driveways or minimally two curb cutouts) to 3rd Street is acceptable to us and will pose no undue hardship for parking on 3rd Street.

Signature	Printed Name	Address
	Jennifer L. Dehn	417 Washington Ave Baraboo
	CHRIS DEHN	417 WASHINGTON
	Christine Bitwell	1017 3rd St Baraboo
	Joel Craren	1017 3rd St Baraboo
	Charles D. BLYSTAD	1033 3 rd ST Baraboo
	Robert KURZ	1016 3RD ST BARABOO
	V. Zimmmerman	941 3rd St Baraboo
		1006 3rd St Baraboo WI 53913
		1002 3rd St Baraboo WI 53913
		1009 3rd St Baraboo WI 53913
	Pam Leake	Baraboo, WI. 53913

Foundation Supportworks of WI

www.fsiwi.com

(920)422-2377

754 W. Airport Rd

Menasha, WI 54952-1409

FAX: (920)967-9658

Jamie Budiak

Project Manager



FOR OFFICE USE ONLY

DATE BID August 27, 2015	POINT OF CONTACT Tom Pinion	E-MAIL tpinion@cityofbaraboo.com
PROPOSAL SUBMITTED TO City of Baraboo	PHONE (OFFICE) 608-393-9945	PHONE (FAX)
MAILING ADDRESS 135 Fourth Street	PROJECT NAME Baraboo CSC Building 450 Roadhouse Court Baraboo, WI 53913	
CITY, STATE, ZIP CODE Baraboo, WI 53913		

SCOPE OF WORK:

Foundation Supportworks of WI (FSW) will provide the labor, supervision, materials and equipment necessary to install 26 Foundation Supportworks™ Model 288 Helical Piles.

PRODUCT:

- 2-7/8 inch O.D., 0.276-inch wall thickness, round shaft piles (Galvanized):
 - (26) Low Profile Brackets
 - (26) 10" Helical Lead Section (5 Foot)
 - (52) 5' Extensions (Galvanized)

INSTALLATION:

- FSW to remove 2'X2' areas of concrete at staggered 3 foot intervals on both sides of the interior grade beam wall.
- FSW to under mine soil beneath footing to allow for bracket installation.
- Install helical piles using a hand held hydraulic drive head.
- Install pier shaft extensions to a length up to 14 feet of total steel and couple with manufacturer supplied hardware.
- Piles will be hydraulically linked together and grade beam lifted to maximum practical recovery then locked off to prevent further settlement.
- FSW to back fill holes with soil that was removed.
- Provide installation data for each pier.

ADDITIONAL NOTES:

- Owner to remove carpeting and or any floor tiles they wish to save and reuse.
- A cost of \$120.00 per 5 foot extension will be added if piles must be installed to a depth more than that specified (14 foot total length) in order to achieve proper load capacity. No loading information was provided. FSW will be installing the piles to an ultimate capacity of 20 kips.
- If any piers are needed beyond what is stated in this proposal or to replace piers damaged by buried obstructions (natural or otherwise), an additional charge of \$1,100.00 will be added per pier for a 14' length. Additional piers will only be installed following client approval.
- Owners representative to be present during lift.

EXCLUSIONS:

- Foundation Supportworks of WI will not be held responsible for:
 1. Damage to any underground utilities.
 2. Concrete repair and flooring replacement on interior.
 3. Barricading of areas where work is being performed.
 4. Repair of interior or exterior finishes damaged due to settlement, installation or lifting.
 5. Repair of roof or roofing materials damaged by settlement or lifting.

Slab Lifting

- FSW to use PolyLEVEL-- two part polyurethane to lift slabs back to maximum practical recovery and fill voids.
- It is impossible to know the extent of voids under the slab.
- FSW estimates needing between 2500-3100 lbs of material.
- If more than 3100 lbs is needed cost to be \$8.00/lb over 3100 lbs. If less than 2500 are needed owner will be credited back at \$6/lb under 2500 lbs.

Bid Amount:For Helical Piles **\$34,575.00**For PolyLEVEL **\$28,975.00**

Acceptance of Proposal - The prices proposed, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. We jointly and severally agree to pay you upon completion of the job, and will further pay your service charge of 1-1/3% per month (16% per annum) if our account is 30 or more days past due, and your attorney's fees and costs to collect or enforce this contract. **My signature indicates that I accept the terms of this Proposal.

Signature X: _____ Date _____

All material is guaranteed to be as specified. All work to be completed according to the standard practices. Any alteration from above specifications will be executed only upon written orders, and may become an extra charge. All agreements contingent upon accidents or delays beyond our control. Our workers are fully covered by Workmen's Compensation Insurance. Client assumes all responsibility for damages due to breakage of any hidden fuel/utility lines, though we will do our best to avoid such damage.

Authorized signature:

A handwritten signature in black ink, appearing to read "TPinion", written over a horizontal line.

Date 8/27/2015

FOUNDATION SUPPORTWORKS™

HELICAL FOUNDATION SYSTEMS



STABILITY. SECURITY. INTEGRITY.

Foundation Supportworks™ offers a complete line of helical products for use as new construction helical piles, retrofit piers, or anchors and tiebacks.

Helical
Foundation
System

About **FOUNDATION SUPPORTWORKS**

▶ **Foundation Supportworks™** (FSI) is a leading manufacturer of helical pile systems, hydraulically-driven push pier systems, wall anchoring and wall bracing systems, and supplemental crawl space support systems. FSI was founded on the principles of integrity, quality and service and it is our mission to provide the industry with innovative solutions that are appropriately designed and tested, expertly installed and dependable to perform as promised.

Foundation Supportworks' commitment to its network of installing contractors and, ultimately, the end consumer, is apparent by employing a team of customer service and dealer support staff unparalleled in the industry. Our staff of full-time employees includes a professional corporate trainer, geotechnical and structural engineers, and entire graphics and website development departments.

FSI has major dealer support facilities in Omaha, Nebraska and Seymour, Connecticut.



Omaha, Nebraska



Seymour, Connecticut

ENGINEERING

▶ Foundation Supportworks™ has both geotechnical and structural engineers on staff for product design, quality assurance of products and support to our network of installing contractors. Our in-house engineers are available to assist with preliminary designs and provide technical support to engineers, architects, building departments and general contractors. Our engineers are experts in the industry and routinely present technical information at industry trade conferences, engineering and architectural meetings and conferences, as well as to contractors and home inspectors.



HELICAL PILES

▶ Helical piles are a factory-manufactured steel foundation system consisting of a central shaft with one or more helix-shaped bearing plates and a bracket that allows attachment to a structure. The helix plates are commonly referred to as blades or flights and are welded to the lead section. Extension shafts, with or without additional helix plates, are used to extend the pile to competent load bearing soil and to achieve design depth and capacity. Brackets are used at the tops of the piles for attachment to structures, either for new construction or retrofit applications. Helical piles are advanced (screwed) into the ground with the application of torque.

The terms helical piles, screw piles, helical piers, helical anchors, helix piers, and helix anchors are often used interchangeably by specifiers. However, the term "pier" more often refers to a helical pile loaded in axial compression, while the term "anchor" more often refers to a helical pile loaded in axial tension. The term "pile" traditionally describes a deep foundation that can resist both tension and compression loads.



▶ DID YOU KNOW?

The use of helical piles and anchors in construction dates back nearly 200 years. In the 1830's, the earliest versions of today's helical piles were used in England for moorings and for the foundations of lighthouse structures. Today, helical piles are used in both tension and compression load applications and are gaining worldwide acceptance throughout the construction industry and engineering community due to the versatility of both the product and the installation equipment. In 2007, the International Code Council Evaluation Service (ICC-ES) approved AC358, Acceptance Criteria for Helical Foundation Systems and Devices. Helical piles are also now included in sections of the 2009 International Building Code.



▶ Helical piles used in retrofit applications utilize side-load brackets that introduce eccentricity to the system. The pile shaft is not located directly under the footing or structural load. Therefore, retrofit piercing systems are eccentrically loaded and must be designed to resist the bending forces generated by this loading condition [See Figure 16].

Most helical piles, especially in retrofit applications, have outer dimensions of 3.5 inches or less. These sections are therefore very sensitive to the bending moments introduced by this eccentricity, thereby reducing the capacity of the pier to carry axial load. The retrofit pier does not act as a pure column as in a new construction application, but rather as a beam-column that must resist both axial load and bending. The pier shaft has quantifiable axial and bending capacities, and independent of the other, may be significant. However, when both of these forces are applied concurrently to the same section, both the allowable compressive capacity and allowable bending capacity are reduced. In fact, according to AISC design methods, the allowable compressive capacity may be reduced by one-half or more for certain pile sections when applying a bending moment generated by an eccentricity of only two inches or less, which would be considered typical for many retrofit piercing systems.

Foundation Supportworks™ addresses the issue of retrofit helical pier eccentricities either of two ways. The first is to increase the stiffness of the pier system and then allow more of the resulting bending forces to be transferred through the pier system itself. This is accomplished by incorporating an external sleeve to resist the bending forces. The external sleeve extends through and below the foundation bracket to essentially create a bracket that is 30 inches tall. Since the external sleeve and the pier shaft are confined by the earth, the bending moment dissipates quickly into the surrounding soils and generally within the first few feet. The depth at which the bending moment dissipates is a function of the soil strength and is greater in soft soils and less in stiff soils. With the external sleeve present to resist most of the bending forces, the capacity of the pier section is preserved to resist the axial compressive forces.

The second way to address retrofit helical pier eccentricities is to increase rigidity of the bracket connection to the foundation. With an adequately designed, rigid connection, much of the eccentricity is transferred back to the foundation and less to the pier section. This connection detail typically consists of several strategically-located, deeply embedded adhesive anchors.



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Retrofit Bracket System Capacities

		Allowable Mechanical Capacities ^(1,2,3)			
		FS288B Bracket		FS288BL Bracket	
		30" Sleeve (kips)	48" Sleeve ⁽⁴⁾ (kips)	30" Sleeve (kips)	48" Sleeve ⁽⁴⁾ (kips)
Shaft	HP287	21.2	26.5	21.2	26.5
	HP288	28.8	36.2	28.8	36.2

		Allowable Mechanical Capacities ^(1,2,3)			
		HP350BS Bracket		HP350B Bracket	
		30" Sleeve (kips)	48" Sleeve ⁽⁴⁾ (kips)	with NO Anchors (kips)	with Adhesive Anchors ⁽⁵⁾ (kips)
Shaft	HP349	35.6	41.1	29.2	36.0
	HP350	44.5	51.5	36.5	45.0

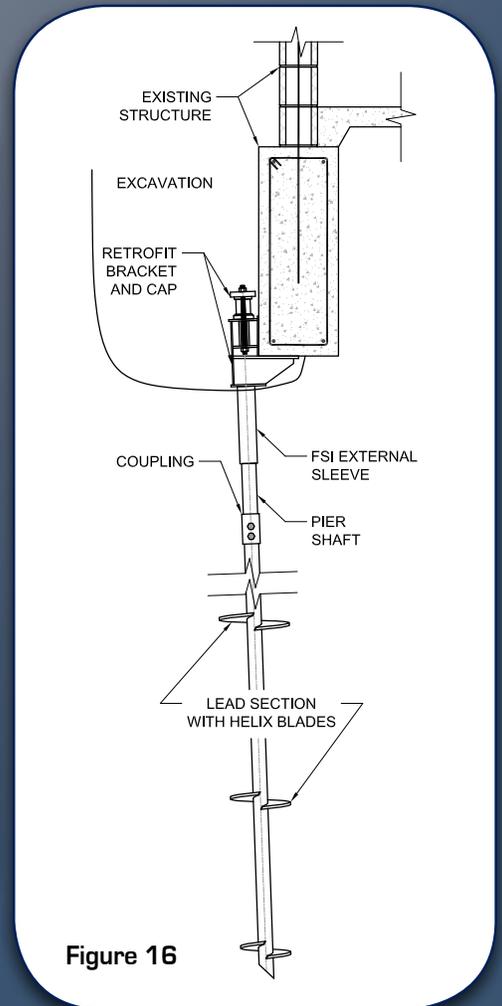
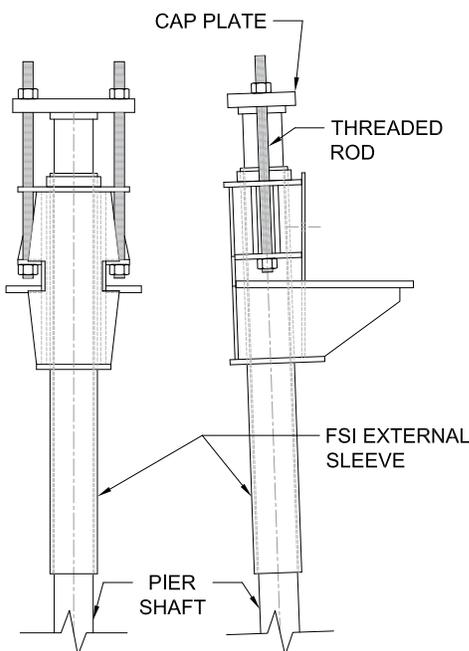


Figure 16

Retrofit Bracket (typ.)



NOTES:

(1) - Brackets shall be used for support of structures that are considered to be fixed from translation. Structures that are not fixed from translation shall be braced in some other manner prior to installing helical retrofit brackets systems.

(2) - Listed allowable capacities are based on continuous lateral soil confinement in soils with SPT blow counts ≥ 4 . Piles with exposed unbraced lengths or piles placed in weaker or fluid soils should be evaluated on a case by case basis by the project engineer.

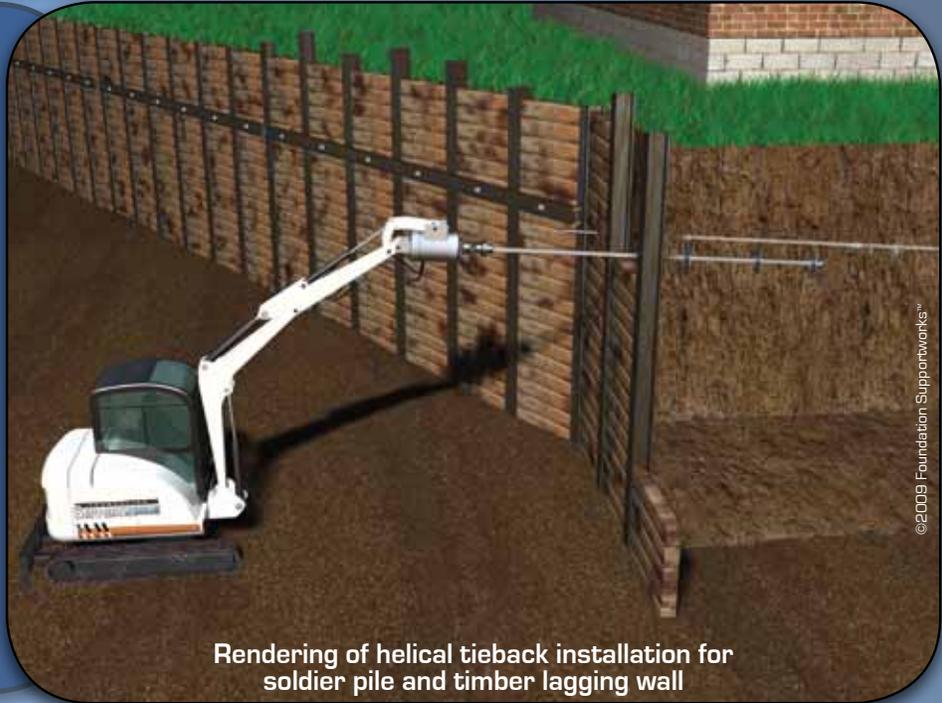
(3) - Listed allowable capacities are for the specific shaft/bracket combination shown. System capacities should also not exceed the torque-correlated soil capacity achieved during installation.

(4) - The use of a 48" sleeve in most cases is impractical due to the potential for coupler interference. A 48" sleeve should only be used with pier extensions of sufficient length and when the coupler location can be well controlled.

(5) - Capacities shown with adhesive anchors utilize six $\text{Ø}5/8"$ B7 threaded rods with Simpson AT adhesive installed to a minimum embedment of 7.5" into concrete with a minimum compressive strength $f_c = 2,500$ psi.

▶ Helical anchors/tiebacks are commonly used in tension applications to provide either temporary or permanent lateral or tie-down support for applications including:

- Earth retention systems such as concrete retaining walls, soldier pile and timber lagging and sheet piling
- Seismic restraint for foundation uplift and lateral support systems
- Guy anchor support for power line and communication towers
- Sea walls and marine bulkhead support



Rendering of helical tieback installation for soldier pile and timber lagging wall

©2009 Foundation Supportworks™

▶ INSTALLATION METHODS

Helical foundation systems are an extremely versatile deep foundation alternative that can be installed with hand-held equipment, mini-excavators, skid steers, backhoes, or tracked excavators, so the equipment can be sized to fit the project.



Mini-excavator



Excavator



Hand-held equipment



Backhoe



Skid steer

FOUNDATION SUPPORTWORKS®

PolyLEVEL™ SYSTEM



STABILITY. SECURITY. INTEGRITY.

Foundation Supportworks® offers a complete line of foundation stabilization products for use in a wide variety of residential, commercial, industrial and municipal applications.

PolyLEVEL™ System

About **FOUNDATION SUPPORTWORKS**

- ▶ **Foundation Supportworks® (FSI)** is a leading manufacturer of helical pile systems, hydraulically-driven push pier systems, earth retention systems and geopolymer stabilization systems. FSI was founded on the principles of **integrity, quality** and **service** and it is our mission to provide the industry with innovative solutions that are appropriately designed and tested, expertly installed and dependable to perform as promised.

Foundation Supportworks' commitment to its network of installing contractors and, ultimately, the end consumer, is apparent by employing a team of customer service and dealer support staff unparalleled in the industry. Our staff of full-time employees includes a professional corporate trainer, geotechnical and structural engineers, and entire graphics and website development departments.

With major dealer support facilities in Omaha, Nebraska and Seymour, Connecticut, Foundation Supportworks® operates with a long-term vision.



ENGINEERING



- ▶ Foundation Supportworks® has both geotechnical and structural engineers on staff for product design, quality assurance of products and support to our network of installing contractors. Our in-house engineers are available to assist with preliminary designs and provide technical support to engineers, architects, building departments and general contractors. Our engineers are experts in the industry and routinely present technical information at industry trade conferences, engineering and architectural meetings and conferences, as well as to contractors and home inspectors.

PolyLEVEL™ SYSTEM

- ▶ The Foundation Supportworks PolyLEVEL™ System utilizes high-density polyurethane to stabilize and level concrete floors and foundations. With multiple formulas available, PolyLEVEL™ is able to fit the needs of any job, large or small. PolyLEVEL™ is a two-part urethane polymer that expands into rigid, structural foam to fill voids, stabilize and lift concrete, and offer solutions to a wide range of geotechnical and structural applications.



Before



After



▶ PolyLEVEL™ has been designed to work under the most extreme circumstances. With wet locations and heavy traffic in mind, PolyLEVEL™ is the best choice for a wide variety of applications. For additional information, request a copy of the current FSI PolyLEVEL™ Technical Document from your local Foundation Supportworks® Authorized Dealer or visit our website at www.fsicommercial.com.

POLYLEVEL™

PolyLEVEL™

ADVANTAGES



- **Lightweight** – PolyLEVEL™ weighs approximately 4 pounds per cubic foot, which is significantly less than the 140 pounds of typical fill material. This means there is almost no additional load added to the supporting soils.
- **High Capacity** – Lifting action is a result of the expansion of the polymer, allowing for lift on much higher loads than typical mudjacking that relies on hydraulic pressure being contained under the slab.
- **Accurate Lift** – Calculated reaction time of the polyurethane foam allows for a precise lifting operation.
- **Waterproof** – Polyurethane material is waterproof, so it will not wash out, and can be used to under-seal slabs as well as stop a variety of infrastructure leaks.
- **Non-Invasive** – PolyLEVEL™ equipment can be used in limited access areas, is less messy than other methods, and can be installed more quickly.
- **Cure Time** – Quick cure time allows for immediate loading, even heavy traffic, within 15 minutes after injection of the material.



Industrial Buildings & Warehouses



Roads & Bridges



Slabs & Infrastructure Repairs



Grain Bins & Other Heavy Structures

PolyLEVEL™ SYSTEM

Installation Process



STEP 1

Small 5/8" holes are drilled in strategic locations in the slab.



STEP 2

Injection ports are installed and tightened.



STEP 3

PolyLEVEL™ is injected beneath the slab to fill voids and allow for lifting.



STEP 4

Holes are grouted and sealed.

► DESIGN CONSIDERATIONS

Foundation Supportworks® offers several different polymer blends, each specifically tailored to the needs of the application including: void filling, concrete lifting, soil stabilization, and joint stabilization.

POLYLEVEL 200

Ideal for use on typical flatwork with lighter loads.

POLYLEVEL 400

Higher capacity allows for use in commercial and industrial applications where higher loads are anticipated.

POLYLEVEL JS

Formulated for joint stabilization when material flow is required.

POLYLEVEL 400H

Hydro-Insensitive foam used when water is present.

POLYLEVEL SS

Single part polyurethane designed to bind and stabilize loose soil.

Authorized Dealer of

FOUNDATION
SUPPORTWORKS

Report Criteria:

Types Selected: Assistance Applied, Billing Adjustments

Name	Customer Number	Type	Description	Amount	Service
Billing Adjustment					
10/01/2015					
LINS, CLAY	92-050500-01	BAdj	Read/Usg Adj for 06/30/2015	90.11	Multiple
LINS, CLAY	92-050500-01	BAdj	Read/Usg Adj for 09/30/2015	95.64	Multiple
Total 10/01/2015:				185.75	
10/12/2015					
CHILDRENS DAY CARE	79-092000-00	BAdj	REPAIRED TOILET VALVE	165.22 -	Multiple
DEPPE ENTERPRISES	86-039000-00	BAdj	REPAIRED LEAKY TOILET	209.84 -	Multiple
Total 10/12/2015:				375.06 -	
10/20/2015					
ATTIC CORRECTIONAL SERVICES	51-019000-00	BAdj	REPAIRED GUTS ON TOILETS	337.21 -	Multiple
NELSON, GARY	51-023500-01	BAdj	REMOVE PN POSTED WRONG	4.53 -	Multiple
Total 10/20/2015:				341.74 -	
10/22/2015					
SHIMON, JEFF	68-106000-00	BAdj	REMOVE PN..FINAL R/O	3.23 -	Multiple
Total 10/22/2015:				3.23 -	
10/23/2015					
BAKER, JOSEPH	70-077100-04	BAdj	REMOVE PN (DID NOT GET EMAIL)	2.81 -	Multiple
BISHOP, DAVID	77-084000-00	BAdj	REMOVE PN (NO EMAIL)	3.51 -	Multiple
DAGNON, WILLIAM	78-051000-00	BAdj	REMOVE PN (NO EMAIL)	3.69 -	Multiple
FISK, ADAM	92-091500-01	BAdj	REMOVE PN..PAID CORRECT AMT	3.94 -	Multiple
SINNER, GENE	67-006000-00	BAdj	REMOVE PN (NO EMAIL)	3.15 -	Multiple
ZELLMER, ROY & ANGIE	69-134000-01	BAdj	REMOVE PN (NO EMAIL)	3.50 -	Multiple
Total 10/23/2015:				20.60 -	
10/29/2015					
MIELKE, PAM	77-157000-02	BAdj	REMOVE PN (FINAL 10/16)	2.84 -	Multiple
Total 10/29/2015:				2.84 -	
Total Billing Adjustment:				557.72 -	
Grand Totals:				557.72 -	

Report Criteria:
Types Selected: Assistance Applieds, Billing Adjustments

Name	Customer Number	Type	Description	Amount	Service
Billing Adjustment					
11/03/2015					
SCHULTZ, RUSSELL	58-040000-00	BAdj	FINAL R/O REMOVE PN PER JMB	1.97	Multiple
Total 11/03/2015:				1.97	-
11/05/2015					
SHORTREED, BENJAMIN	68-132000-01	BAdj	REPAIRED TOILET	48.17	Multiple
Total 11/05/2015:				48.17	-
11/10/2015					
ALTISOURCE SINGLE FAMILY INC	56-117000-00	BAdj	Cert Penalty - 11/10/15 09:09	4.50	Multiple
AULD, FRANCES	56-086500-01	BAdj	Cert Penalty - 11/10/15 09:09	2.53	Multiple
BADER, KIRK	73-012000-00	BAdj	Cert Penalty - 11/10/15 09:09	39.54	Multiple
BAERWOLF, TROY	56-013000-00	BAdj	Cert Penalty - 11/10/15 09:09	23.08	Multiple
BANKS, JOHN	99-011590-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
BARABOO LUXURY APT LLC	68-004000-00	BAdj	Cert Penalty - 11/10/15 09:09	16.23	STOTP - 99
BARABOO LUXURY APT LLC	99-005080-00	BAdj	Cert Penalty - 11/10/15 09:09	43.62	STOTP - 99
BICKNELL, GLEN	61-067500-00	BAdj	Cert Penalty - 11/10/15 09:09	20.63	Multiple
BLAKE, EDWIN	99-009740-00	BAdj	Cert Penalty - 11/10/15 09:09	3.84	STOTP - 99
BLAKE, EDWIN	99-013480-00	BAdj	Cert Penalty - 11/10/15 09:09	1.28	STOTP - 99
BNC LLC	68-050000-02	BAdj	Cert Penalty - 11/10/15 09:09	3.88	Multiple
BYXBE, ROB	55-059000-02	BAdj	Cert Penalty - 11/10/15 09:09	39.95	Multiple
CONNORS, JESSICA	99-012210-00	BAdj	Cert Penalty - 11/10/15 09:09	6.80	STOTP - 99
CORRAO, BRADLEY	90-070000-01	BAdj	Cert Penalty - 11/10/15 09:09	6.30	Multiple
CORRAO, BRADLEY	99-001920-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
DECORAH, FOSTER	99-011830-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
DIETSCH, TERESA	62-046000-02	BAdj	Cert Penalty - 11/10/15 09:09	10.66	Multiple
ELLIOTT, DUANE & JANET	90-107000-00	BAdj	Cert Penalty - 11/10/15 09:09	3.16	Multiple
GRADALL, KEN	99-021000-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
GRAY, AUDREY	62-082000-00	BAdj	Cert Penalty - 11/10/15 09:09	3.55	Multiple
GREENWOOD, MICHAEL	54-112000-04	BAdj	Cert Penalty - 11/10/15 09:09	13.27	Multiple
HARTWIG, JOHN	99-011110-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
JP MORGAN CHASE BANK	72-054000-00	BAdj	Cert Penalty - 11/10/15 09:09	3.16	Multiple
KIMBALL, GARY	99-011600-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
KLEIST, THOMAS	59-003000-00	BAdj	Cert Penalty - 11/10/15 09:09	76.36	Multiple
KLEIST, THOMAS	60-026000-00	BAdj	Cert Penalty - 11/10/15 09:09	51.70	Multiple
KLITZKE PROPERTY MGMT	59-077000-00	BAdj	Cert Penalty - 11/10/15 09:09	6.20	Multiple
KLITZKE PROPERTY MGMT	99-011450-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
KLITZKE PROPERTY MGMT	99-013560-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
KLITZKE PROPERTY MGMT	99-015600-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
LEGNAR, KEVIN	90-078000-00	BAdj	Cert Penalty - 11/10/15 09:09	9.05	Multiple
LUCE, BRAD & DONNA	58-076000-00	BAdj	Cert Penalty - 11/10/15 09:09	3.45	Multiple
MAX GOODMAN LLC	99-017400-00	BAdj	Cert Penalty - 11/10/15 09:09	1.27	STOTP - 99
MCCULLOCH, GREG	99-010540-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
MCGANN, CASEY	99-014740-00	BAdj	Cert Penalty - 11/10/15 09:09	2.56	STOTP - 99
MENG, GUIMING	95-027000-00	BAdj	Cert Penalty - 11/10/15 09:09	4.72	Multiple
MEYER, TODD	99-013880-00	BAdj	Cert Penalty - 11/10/15 09:09	6.80	STOTP - 99
MICHALSKI, HENRY	99-013520-00	BAdj	Cert Penalty - 11/10/15 09:09	6.80	STOTP - 99
MURPHY, JAMES	99-010840-00	BAdj	Cert Penalty - 11/10/15 09:09	1.28	STOTP - 99
NEHLS, CHRISTINE	63-100000-00	BAdj	Cert Penalty - 11/10/15 09:09	6.35	Multiple
NELSON, GARY	60-022000-00	BAdj	Cert Penalty - 11/10/15 09:09	8.27	Multiple
NICKSIC, JOE	54-008000-00	BAdj	Cert Penalty - 11/10/15 09:09	52.39	Multiple

Name	Customer Number	Type	Description	Amount	Service
NICKSIC, JOE	99-010230-00	BAdj	Cert Penalty - 11/10/15 09:09	6.80	STOTP - 99
NICKSIC, JOE	99-012670-00	BAdj	Cert Penalty - 11/10/15 09:09	6.80	STOTP - 99
NORMAN, CHERYL	79-042000-00	BAdj	Cert Penalty - 11/10/15 09:09	11.71	Multiple
PFLUGER, EDWARD	99-011710-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
POLUBINSKY, JESSICA	99-018200-00	BAdj	Cert Penalty - 11/10/15 09:09	1.70	STOTP - 99
RATHERMEL, KEVIN & JEREME	70-135000-02	BAdj	Cert Penalty - 11/10/15 09:09	7.73	Multiple
RATHMAN, ERIC	64-086000-02	BAdj	Cert Penalty - 11/10/15 09:09	6.53	Multiple
RATHMAN, ERIC	64-115000-03	BAdj	Cert Penalty - 11/10/15 09:09	8.20	Multiple
SCHADLER PROPERTIES	69-051800-04	BAdj	Cert Penalty - 11/10/15 09:09	5.25	Multiple
SCHMIDT, KURT	99-013820-00	BAdj	Cert Penalty - 11/10/15 09:09	1.91	STOTP - 99
SHELLEY, KEVIN	99-018800-00	BAdj	Cert Penalty - 11/10/15 09:09	8.11	STOTP - 99
STARK, TOM	66-062000-01	BAdj	Cert Penalty - 11/10/15 09:09	6.47	Multiple
STARK, TOM	66-063000-01	BAdj	Cert Penalty - 11/10/15 09:09	16.32	Multiple
STARK, TOM	66-063000-02	BAdj	Cert Penalty - 11/10/15 09:09	2.11	Multiple
STARK, TOM	99-011320-00	BAdj	Cert Penalty - 11/10/15 09:09	6.80	STOTP - 99
STEFFES, STEVEN	99-010440-00	BAdj	Cert Penalty - 11/10/15 09:09	5.62	STOTP - 99
T & T ENTERPRISES	61-108000-00	BAdj	Cert Penalty - 11/10/15 09:09	250.61	Multiple
THUESEN, JOHN M	53-105500-01	BAdj	Cert Penalty - 11/10/15 09:09	3.41	Multiple
VAN RENSSLAER, PAT	64-120000-00	BAdj	Cert Penalty - 11/10/15 09:09	5.12	STOTP - 99
WEHLER, ROB	69-050000-03	BAdj	Cert Penalty - 11/10/15 09:09	5.55	Multiple
YARESH, JAMES	95-171000-01	BAdj	Cert Penalty - 11/10/15 09:09	9.20	Multiple
YARESH, JAMES	95-182000-00	BAdj	Cert Penalty - 11/10/15 09:09	21.90	Multiple
YARESH, JAMES	95-194800-02	BAdj	Cert Penalty - 11/10/15 09:09	2.34	Multiple
YARESH, JAMES	95-195200-01	BAdj	Cert Penalty - 11/10/15 09:09	1.18	Multiple
YARESH, JAMES	95-196200-03	BAdj	Cert Penalty - 11/10/15 09:09	3.95	Multiple
YARESH, JAMES	95-196800-03	BAdj	Cert Penalty - 11/10/15 09:09	3.08	Multiple
YARESH, JAMES	95-197200-00	BAdj	Cert Penalty - 11/10/15 09:09	58.56	Multiple
YARESH, JAMES	99-010290-00	BAdj	Cert Penalty - 11/10/15 09:09	1.28	STOTP - 99
YARESH, JAMES	99-010330-00	BAdj	Cert Penalty - 11/10/15 09:09	1.28	STOTP - 99
YARESH, JAMES	99-010390-00	BAdj	Cert Penalty - 11/10/15 09:09	1.28	STOTP - 99
YARESH, JAMES	99-010400-00	BAdj	Cert Penalty - 11/10/15 09:09	1.28	STOTP - 99
YARESH, JAMES	99-010430-00	BAdj	Cert Penalty - 11/10/15 09:09	3.84	STOTP - 99
YSTAD, ROGER	95-001000-00	BAdj	Cert Penalty - 11/10/15 09:09	15.47	Multiple
Total 11/10/2015:				1,030.89	
11/12/2015					
CAPENER, STEVE	58-087500-00	BAdj	REPAIRED LEAKY TOILET	154.61	Multiple
Total 11/12/2015:				154.61	
11/20/2015					
MANNING, MELISSA	57-088000-00	BAdj	REPAIRED WATER SOFTENER	51.91	Multiple
Total 11/20/2015:				51.91	
Total Billing Adjustment:				774.23	
Grand Totals:				774.23	

Report Criteria:

Types Selected: Assistance Applieds, Billing Adjustments

Report Criteria:

Types Selected: Assistance Applieds, Billing Adjustments

Name	Customer Number	Type	Description	Amount	Service
Billing Adjustment					
12/28/2015					
FIRST CONGREGATIONAL CHURCH	59-005000-00	BAdj	REPAIRED LEAK	72.06 -	Multiple
SMITH, PAT M	55-009000-00	BAdj	REPAIRED LEAK	116.51 -	Multiple
Total 12/28/2015:				188.57 -	
Total Billing Adjustment:				188.57 -	
Grand Totals:				188.57 -	

Baraboo Police Department Monthly Activity Report October 2015

Calls for Service	Current Month	Current Year to Date	Prior Year to Date	Change	Percentage Change
Burglaries	2	44	34	10	29.41%
Thefts	50	427	380	47	12.37%
Criminal Damage	13	74	68	6	8.82%
Assist other agencies	74	704	705	-1	-0.14%
Assists - West Baraboo	4	49	38	11	28.95%
Animal Complaints	29	281	242	39	16.12%
Total of all Calls	776	7,953	8,542	-589	-6.90%

Traffic Crashes

Total Traffic Crashes	26	247	239	8	3.35%
Persons Killed	0	0	0	0	0.00%
Persons Injured	10	51	44	7	15.91%
Pedestrians Injured	0	0	0	0	0.00%

Enforcement Activity

Adult Notices of Appearance	80	826	926	-100	-10.80%
Drug Charges	10	103	190	-87	-45.79%
Traffic Citations	307	3696	6,215	-2519	-40.53%
OWI Arrests	7	52	130	-78	-60.00%
Seatbelt Violations	11	340	560	-220	-39.29%
Traffic Warnings	105	1535	2,759	-1224	-44.36%
Juvenile Offenses	28	351	337	14	4.15%
Curfew Violations	0	17	31	-14	-45.16%
Underage Alcohol Citations	2	67	76	-9	-11.84%
Parking Citations	436	2,360	1,522	838	55.06%

Fines and Fees

Court Fines	\$3,628.22	\$46,869.28	\$45,391.54	\$1,477.74	3.26%
Parking Fines	\$3,822.99	\$37,202.59	\$25,499.06	\$11,703.53	45.90%
Police Department Fees	\$336.40	\$2,075.75	\$704.81	\$1,370.94	194.51%



POLICE LINE

The Baraboo Police Department Newsletter

November 2015

From the Chief

It seems that every time we turn on the news there is another violent act that rips our country. Recent worldwide events have shaken us to the core and will be talked about at all levels of government for some time. It is important for us on a local level to pay attention and be as prepared as we can for these violent incidents. We hope they never happen, but hope is not a plan to succeed.

Recently, Baraboo Police, Fire and Sauk County Emergency Management teamed with the Baraboo School District for planning for such an event. We rolled out the Sauk County Reunification plan which details what would happen if we had to evacuate a school or other location where children are present and a systematic return of the kids to their proper parent or guardian.

As you might imagine, in the middle of any school evacuation, we need to be ready to account for all of the staff and students and be sure they are all home safe at the end of the day. The plan, developed by Sauk County EM Director Jeff Jelinek is a comprehensive and systematic approach that has school staff and responders working together for the best result for the community. We will be talking with parents about these plans in the near future as we practice our response and prepare as a community to

respond in time of natural or manmade disaster.

Anniversaries

In November we celebrate the anniversaries of Sergeant Mark Lee, 17 years and Community Service Officer Allison Goetz, 16 years.

Equipment Profile

This month we profile the digital recorder. We have a couple of styles in use as they are issued to all of the officers.



Officers use the Olympus recorders to dictate reports that are later transcribed by office staff or to record interviews on large cases. These are digital recorders that hook into a special transcription module that allows staff to type the reports more easily. This saves officers time and makes for better reports.

Scams are all around

The department has received a large number of scam reports and going into the holiday season, we need to be all the more aware. The most common right now is a phone call telling you the IRS will be arresting you for nonpayment of taxes unless you wire money right away. The IRS does not contact people via telephone and employs an entire group of auditors and investigators. Payments will never be taken via a wire account. Do not give your bank account information to anyone over the phone.

There are still classics that come this time every year. Scammers place a phone call from a younger person who plays off being a grandchild in need of money. This is often a call to an older citizen and they are told that they were held in Canada or another country and need funds to be released. Again, any time anyone wants you to wire money in the modern age should be a red flag.

FB and Twitter

A reminder that we are on Facebook and Twitter! We provide safety information and real time information in time of emergency.





BARABOO FIRE DEPARTMENT

Date: January 20, 2016
To: Public Safety Committee Members
CC: Mayor Palm and City Administrator Geick
From: Kevin G. Stieve, Fire Chief
RE: January 25, 2016 Public Safety Committee Background Information

Addition to Live Fire Training Prop

We have an opportunity to receive a substantial donation from a former firefighter's family. That former firefighter is Leon Laubscher. His daughter Carol Palzkill had contacted me about donating money and requested a project in which the money would fund.

After discussing it with the rest of the membership they would like to see the live fire training props expanded.

As you are aware we have two 40 foot shipping containers in a "T: shape for live fire training. We used this training prop extensively from August 2015 until November 2015. It provided great training opportunities for us and the review of the training by the members was outstanding.

To date I am not aware of any complaints of smoke or other items related to us conducting this live fire training.

I am requesting to add two more shipping containers. The first shipping container would be set alongside of the current container that is north and south facing and the second would be placed on top of this new container. This would provide us an opportunity to practice fire operations with second story scenarios. I have talked with the Mayor, City Administrator, City Engineer and Streets Superintendent and they have no objections. I request your approval for this project. No fiscal impact to the fire department budget.

I have inserted a picture below that depicts what we are asking to accomplish.



Apparatus Replacement Schedule

Attached is apparatus replacement schedule that was approved originally in 2012.

It still shows the replacement of Support 4 and Car 2 with one vehicle for 2016. I also believe the money is listed in the budget, but that purchase will not take place this year.

The reason this information is before you is to inform you that we will be starting the specification process for the replacement of Engine 3 which is scheduled for replacement in 2017.

Promotions

Jeff Beckwith was promoted to Assistant Fire Chief – Training and Safety effective January 1, 2016. Jeff is a 28 ½ year member of the department and formerly served as a Captain for several years prior to this promotion.

Jim Carter was promoted to Captain effective January 12, 2016. Jim is a ten plus year member and formerly served as a Lieutenant.

We will have two Lieutenant Promotions this year; one in the near future and one after July 1, 2016.

Firefighter Hiring

Another firefighter was hired in mid January. She is Karen Curtis. She is the manager at Baraboo Arts Banquet Hall. She has started her entry level firefighter training. She was one of two people that tested. The other applicant turned down employment with us based on his busy schedule. The fire department is staffed with 43 personnel including the Cadet Firefighter listed below.

Response Time Report

The 2015 Response Time Report is attached and will be discussed at the meeting.

I will also summarize the fire department incident responses and some other response time data at the meeting.

Cadet Firefighter

Shortly after school started we had an application for a Cadet Firefighter. A Cadet Firefighter participates alongside the other firefighters, but is restricted to support activities and not actual firefighting. Cadet Firefighters have to show interest in continuing in a firefighting career after graduation.

We accepted Logan LaMasney as a Cadet Firefighter. He comes in during the day for a set time to perform various duties and activities. He also attends training, meetings and incident calls during his free time. He is the son of former member Gary LaMasney and brother of current member, Jordan LaMasney.

Logan is doing a great job thus far and will start Firefighter I training in February. Jake intends to apply for and be accepted as a regular firefighter once he is done with high school. The exposure and training he is and will receive will greatly enhance that probability.

Please contact me with questions.

**Baraboo Fire Department
Apparatus Replacement Summary**

Apparatus	Model Year	PROPOSED REPLACEMENT YEAR											Age at Replacement			
		2012	2013	2014	2016	2017	2019	2022	2025	2028	2031	2034				
Pierce Engine	1990		\$600,000												23	E-1
Pierce Engine	1992					\$485,073									25	E-3
Ford/Marion Rescue Truck	1994					\$386,546									27	S-2
Ford U.S. Tanker Tender	1995						\$434,812								26	T-8
Freightliner/U.S. Tanker Tender	1999							\$304,972							26	T-9
Pierce Enforcer Engine	2002							\$774,090							26	E-2
Pierce Aerial Platform	2010								\$2,042,967						21	L-1
Ford Brush Truck	2011									\$168,819					23	B-5
Ford Van- Support Vehicle	1997				\$50,000										18	S-4
Dodge Durango - Chief's Car	2005			\$40,492											10	C-1
Ford Crown Victoria - Command Car	2007														8	C-2

Replace with pick up truck under S-4 Replacement - Replace two with one.

Baraboo Fire Department Incident Response Time Report

Standards Referenced:

NFPA 1720 - Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations and Special Operations to the Public by Volunteer Fire Departments - 2010 Edition

Specific Information:

Chapter 1 Administration

1.1* Scope. This standard contains minimum requirements relating to the organization and deployment of fire suppression operations, emergency medical operations, and special operations to the public by volunteer and combination fire departments.

4.3.2* Table 4.3.2 shall be used by the AHJ to determine staffing and response time objectives for structural fire fighting, based on a low-hazard occupancy such as a 2000 ft² (186 m²), two-story, single-family home without basement and exposures and the percentage accomplishment of those objectives for reporting purposes as required in 4.4.2.

A.4.3.2 Table 4.3.2 outlines demographic areas, as defined by the U.S. Census Bureau; staffing and deployment requirements; and fractal measurements. The suburban area is based on the requirements provided in the report by the Ontario Fire Marshal’s Office, *Shaping the Future of Fire Ground Staffing and Delivery Systems within a Comprehensive Fire Safety Effectiveness Model*, a report referenced in NFPA 1710, as well. This requirement must be met 80 percent of the time. Rural areas have a lower population density and require six people (two in/two out plus the incident commander and pump operator), a requirement that is derived from the country-UK standards of fire cover and must be met 80 percent of the time. The remote areas reference the OSHA “two in/two out” requirement and the assembly of four persons 90 percent of the time. Travel distances are varied and can be computed utilizing the ISO travel formula. This travel formula is as follows: $1.7 \times \text{distance} + 0.65 = \text{travel time}$ For evaluation of response time objectives based on Table 4.3.2, the fire department needs to record the number of members on the scene at the end of the response time given in the table for each incident. For example, in an urban area, the fire department would record the number of members on scene 9 minutes after the completion of the dispatch notification. They would then determine how many times they had at least 15 members on scene within that 9-minute time interval and calculate a percentage based on the total calls in urban areas. To meet the objective defined in this standard for an urban area, they would need to assemble at least 15 members within 9 minutes for 90 percent of the incidents.

Demand Zone*	Demographics	Minimum Staff to Respond**	Response Time (Minutes) ***	Meets Objective (%)
Urban Area	>1000 people/sq. mile	15	9	90
Suburban Area	500-1000 people/sq. mile	10	10	80
Rural Area	<500 people/sq. mile	6	14	80
Remote Area	Travel Distance ≥ 8 miles	4	Directly dependent on travel distance	90
Special Risks	Determined by AHJ	Determined by AHJ	Determined by AHJ	90

*A jurisdiction can have more than one demand zone

** Minimum staffing includes members responding from the AHJs department and automatic aid

*** Response time begins upon completion of the dispatch notification and ends at the time interval shown in the table

Apparatus with Computers for Time Tracking and Capabilities

Engine 2 is the first due to respond Engine and carries 6 personnel

Ladder 1 is second due to respond on structure fire calls in the City and Village and carries 6 personnel

Engine 1 is the second due on rural structure fires and third due to respond on City and Village structure fire calls and carries 6 personnel.

Response Times – January 1, 2015 to December 31, 2015

Municipality	Demographics	Number of Responses	Staff Response	Meets Objective (%)
City of Baraboo	>1000 people/sq. mile	7	15+	42%
Village of West Baraboo	500-1000 people/sq. mile	2	10+	100%
Town of Baraboo	<500 people/sq. mile	3	6+	33%
Town of Fairfield	Remote Area 10.1 miles 17.82 minutes	1	4+	100%
Town of Greenfield	Remote Area 8.1 miles 14.42 minutes	1	4+	0%