



CITY OF MARSHFIELD

MEETING NOTICE

AGENDA
BOARD OF PUBLIC WORKS
CITY OF MARSHFIELD, WISCONSIN
MONDAY, March 2, 2015 at 5:30 PM
COUNCIL CHAMBERS, CITY HALL PLAZA

- 1. Call meeting to order – Chairman Feirer
2. Approval of minutes of February 16, 2015 Board of Public Works meeting
3. Citizen Comments
4. Plan review and approval to seek bids for new bear exhibit – Presented by Ed Englehart, Parks & Recreation Director
5. Discussion regarding traffic signal knockdowns at Maple Avenue and Veterans Parkway – Presented by Tom Turchi, City Engineer
6. Adjournment

Posted this 27th day of February, 2015 at 4:00 PM by Daniel G. Knoeck, Director of Public Works

NOTE

It is possible that members of and possibly a quorum of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information; no action will be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in this notice.

Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request this service, contact Mary Anderson, Public Works Department at 630 South Central Avenue or by calling (715) 387-8424

**BOARD OF PUBLIC WORKS BACKGROUND**  
**03/02/15**

1. Call meeting to order – Chairman Feirer
  
2. Approval of minutes of February 16, 2015 Board of Public Works meeting
  
3. Citizen Comments
  
4. Plan review and approval to seek bids for new bear exhibit – Presented by Ed Englehart, Parks & Recreation Director  
See attached memo and construction drawings. **Recommend approval and authorize advertising for bids.**
  
5. Discussion regarding traffic signal knockdowns at Maple Avenue and Veterans Parkway – Presented by Tom Turchi, City Engineer  
See attached memo. **Recommend closing the right hand turn lane on Veterans Parkway turning north on Maple Avenue.**
  
6. Adjournment

**BOARD OF PUBLIC WORKS MINUTES**  
**OF FEBRUARY 16, 2015**

Meeting called to order by Chairman Feirer at 5:30 PM in the Council Chambers of City Hall Plaza.

**PRESENT:** Tom Buttke, Ed Wagner, Mike Feirer and Chris Jockheck

**EXCUSED:** Gary Cummings

**ALSO PRESENT:** Mayor Meyer, Alderman Earll; City Administrator Barg; Director of Public Works Knoeck; City Engineer Turchi; Assistant City Engineer Cassidy; Street Superintendent Winch; Building Services Supervisor Pokorny; the media; and others.

**PW15-20** Motion by Jockheck, second by Buttke to recommend approval of the minutes of the February 2, 2015 Board of Public Works meeting.

**Motion Carried**

**Citizen Comments - None**

**PW15-21** Motion by Buttke, second by Wagner to recommend approval of a three year HVAC service agreement with Complete Control for City Hall Plaza and authorize execution of a contract.

**Motion Carried**

**PW15-22** Motion by Wagner, second by Jockheck to recommend approval of the plans for Maple Avenue reconstruction as presented and authorize soliciting for bids.

**Motion Carried**

**PW15-23** Motion by Buttke, second by Wagner to recommend approval of the Street Surface Replacement Costs as presented, effective January 1, 2015.

**Motion Carried**

**PW15-24** Motion by Jockheck, second by Buttke to recommend approval of final assessments for Park Street (7<sup>th</sup> Street to Oak Avenue) as presented.

**Motion Carried**

**PW15-25** Motion by Buttke, second by Jockheck to adjourn to closed session at 5:54 PM pursuant to Wisconsin Statute Chapter 19.85(1)(e) Deliberating or negotiating the purchasing of public properties, the investing of public funds, or conducting other specified public business, whenever competitive or bargaining reasons require a closed session.

- Acquisition of property at 306 South Maple Avenue

**Roll call vote, all 'Ayes' Motion Carried**

**Present in Closed Session:** Mayor Meyer, Aldermen Wagner, Buttke, Jockheck, Feirer, & Earll; City Administrator Barg; Director of Public Works Knoeck; City Engineer Turchi.

**PW15-26** Motion by Buttke, second by Jockheck to reconvene in open session at 6:06 PM.

**Roll call vote, all 'Ayes' Motion Carried**

**PW15-27** Motion by Wagner, second by Jockheck to recommend approval of a Purchase Agreement with Arlon and Gail Haessly for property at 306 South Maple Avenue and request the City Attorney draft an Offer to Purchase.

**Motion Carried**

**Recommended items for future agenda - None**

Motion by Buttke, second by Jockheck that the meeting be adjourned at 6:08 PM.

**Motion Carried**

Daniel G. Knoeck, Secretary  
BOARD OF PUBLIC WORKS

# Memo

**To:** Board of Public Works  
**From:** Ed Englehart, Parks and Recreation Director  
**Date:** February 26, 2015  
**Re:** Grizzly Bear Exhibit Plan Review and Request to Seek Bids

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## Background

Last year the Board of Public Works approved entering into a contract with Hammel, Green, and Abrahamson, Inc. (HGA) for architectural services for the design of a new grizzly bear exhibit at Wildwood Zoo. The plans and specifications for the renovation and expansion project are now ready for bidding. The Wildwood Zoological Society's private fundraising for the project has gone very well and exceeded the original goal. The most recent information provided to me by the Marshfield Area Community Foundation and the Zoological Society's fundraising group indicates that \$1,142,000 has been raised in cash and pledges. The city financial participation in the project is \$90,000 of room tax funds and is not included in the private fund raising amount. The project is estimated to cost \$1,100,000 for construction and \$90,000 for plan, design, construction supervision and other miscellaneous expenses. There have also been in-kind contributions to assist with the project and additional in-kind services and/or materials are being pursued.

## Analysis

The development of the plans and specifications has been a lengthy process, involving a large number of people and staff hours. Following our final design team review, we feel the plans and specifications are ready to solicit bids for the project. The project will be bid as a single prime bidder. Following is the proposed schedule for this project.

March 2: Board of Public Works plan review and approval to seek bids

March 3 or before: Any final changes or revision to plans and specifications be submitted to HGA

March 9 – 31: Advertise for bids

March 31: Bid Opening

April 1-3 or April 1-16: Evaluate bids and prepare recommendation to Board of Public Works

April 6 or April 20: Recommendation to Award Bid to Board of Public Works

April 14 or April 28: Common Council approval of Board of Public Works action

April 15 – May 1: Contract Documents executed

May 4: Proposed start of construction to start

## Recommendation

I recommend the Board of Public Works approve the plans and specifications and project schedule for the new grizzly bear exhibit, and direct staff to solicit bids to complete the project.

Concurrence: \_\_\_\_\_



Steve Barg, City Administrator

# Wildwood Zoo Grizzly Bear Exhibit Expansion



ARCHITECT & ENGINEER:



Architecture | Engineering | Planning  
Hammel, Green and Abrahamson, Inc.

CIVIL ENGINEER:



## CONSTRUCTION DOCUMENTS

hga commission number: 3241-002-00

FEBRUARY 23, 2015

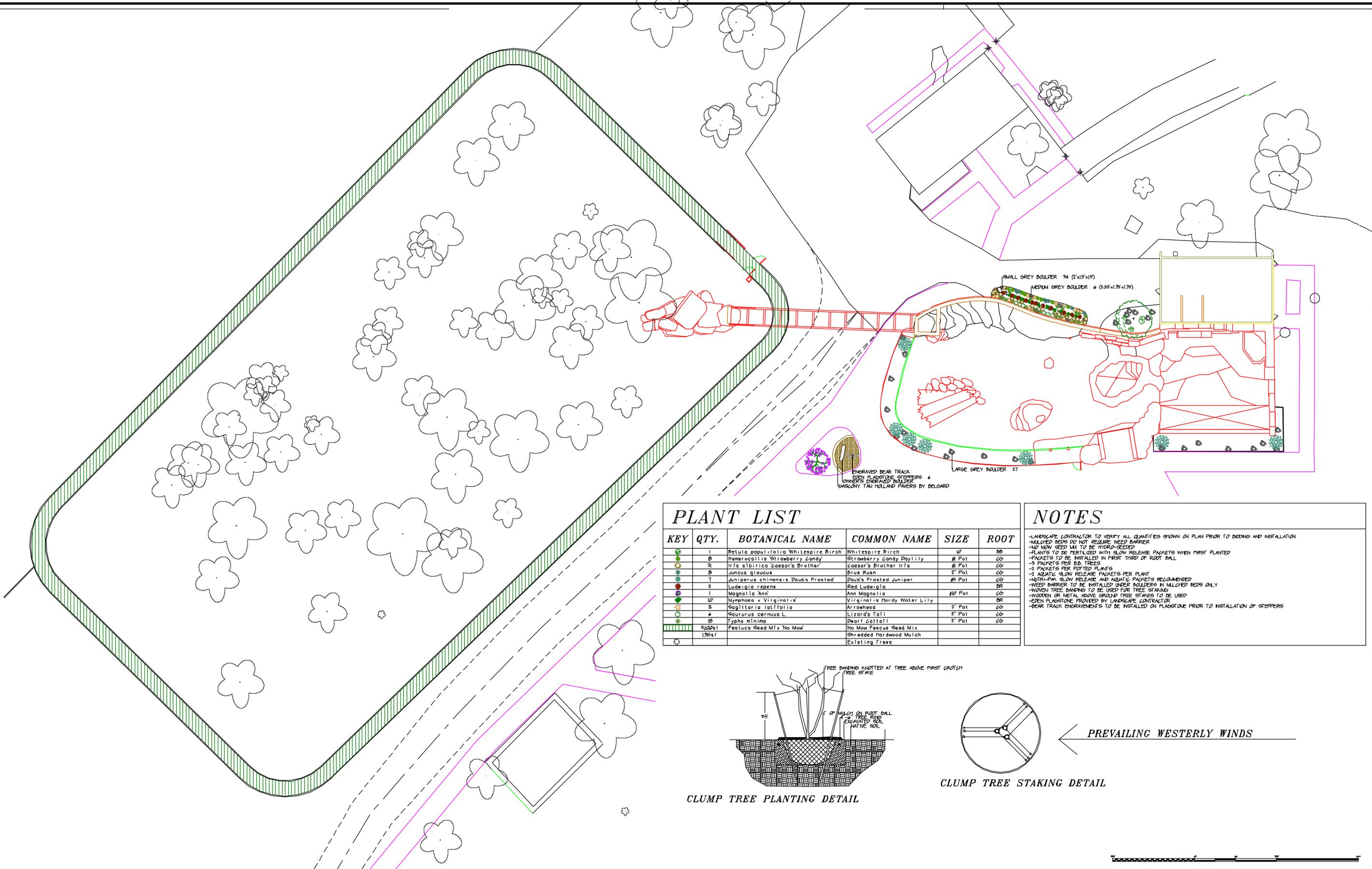
100% REVIEW

DRAWING INDEX		DRAWING INDEX	
SHEET NO	SHEET NAME	SHEET NO	SHEET NAME
0000	COVER SHEET	4-ARCHITECTURAL	
2-CIVIL		A040	ARCHITECTURAL SITE PLAN \$ GENERAL NOTES
C100	EROSION CONTROL DETAILS	A100	DEMOLITION PLAN
C101	EROSION CONTROL DETAILS	A200	FLOOR PLAN
C102	MISCELLANEOUS DETAILS	A300	ENLARGED PLANS & INTERIOR ELEVATIONS & DETAILS
C200	EROSION CONTROL PLAN	A400	ELEVATIONS
C201	CIVIL SITE PLAN	A401	RENDERINGS
C202	GRADING AND UTILITY PLAN	A470	SECTIONS
3-LANDSCAPE		A471	SECTIONS
L200	LANDSCAPE PLAN - BEAR ENCLOSURE	A472	SECTIONS
L201	BOG FILTRATION PLAN - BEAR ENCLOSURE	A480	DETAILS
		A481	DETAILS
		A482	BRIDGE DETAILS
		6-STRUCTURAL	
		S001	GENERAL STRUCTURAL NOTES AND ABBREVIATIONS
		S200	STRUCTURAL PLAN
		S500	TYPICAL CONCRETE DETAILS
		S501	CONCRETE DETAILS
		S502	CONCRETE DETAILS



SITE LOCATION DIAGRAM



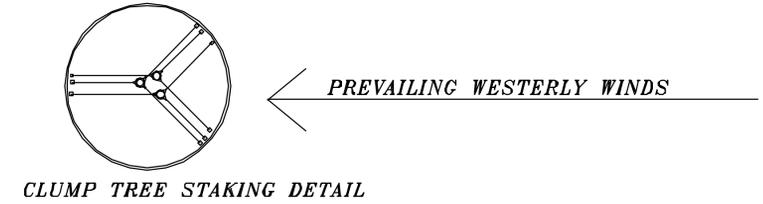
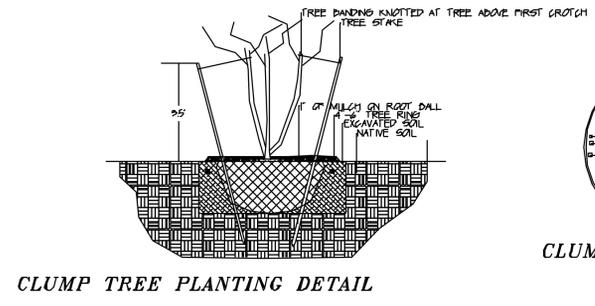


### PLANT LIST

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
	1	<i>Betula populifolia</i> Whitespire Birch	Whitespire Birch	1/2"	BB
	2	<i>Heimerocallis</i> Strawberry Candy	Strawberry Candy Daylily	# Pot	CG
	2	<i>Iris sibirica</i> Caesar's Brother	Caesar's Brother Iris	# Pot	CG
	2	<i>Juncus glaucus</i>	Blue Rush	2" Pot	CG
	1	<i>Juniperus chinensis</i> Doub's Frosted	Doub's Frosted Juniper	#2 Pot	CG
	1	<i>Ludwigia repens</i>	Red Ludwigia	BR	BR
	1	<i>Magnolia Ann</i>	Ann Magnolia	#10 Pot	CG
	10	<i>Nymphaea x Virginatis</i>	Virginatis Hardy Water Lily	BR	BR
	12	<i>Sagittaria latifolia</i>	Arrowhead	2" Pot	CG
	4	<i>Saururus cernuus</i> L.	Lizard's Tail	2" Pot	CG
	15	<i>Typha minima</i>	Dwarf Cattail	2" Pot	CG
	5100sf	Festuca Seed Mix No Mow	No Mow Fescue Seed Mix		
	136sf		Shredded Hardwood Mulch		
			Existing Trees		

### NOTES

- LANDSCAPE CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON PLAN PRIOR TO ORDERING AND INSTALLATION
- MULCHED BEDS DO NOT REQUIRE WEED BARRIER
- NO MOW SEED MIX TO BE HYDRO-SEED
- PLANTS TO BE FERTILIZED WITH SLOW RELEASE PACKETS WHEN FIRST PLANTED
- PACKETS TO BE INSTALLED IN FIRST THIRD OF ROOT BALL
- 3 PACKETS PER DB. TREES
- 2 PACKETS PER POTTED PLANTS
- 2 AQUATIC SLOW RELEASE PACKETS PER PLANT
- NUTRI-PAK SLOW RELEASE AND AQUATIC PACKETS RECOMMENDED
- WEED BARRIER TO BE INSTALLED UNDER BOLLERS IN MULCHED BEDS ONLY
- WOVEN TREE BANDING TO BE USED FOR TREE STAKING
- WOODEN OR METAL ABOVE GROUND TREE STAKES TO BE USED
- EVEN FLAGSTONE PROVIDED BY LANDSCAPE CONTRACTOR
- BEAR TRACK ENGRAVEMENTS TO BE INSTALLED ON FLAGSTONE PRIOR TO INSTALLATION OF STEPPERS



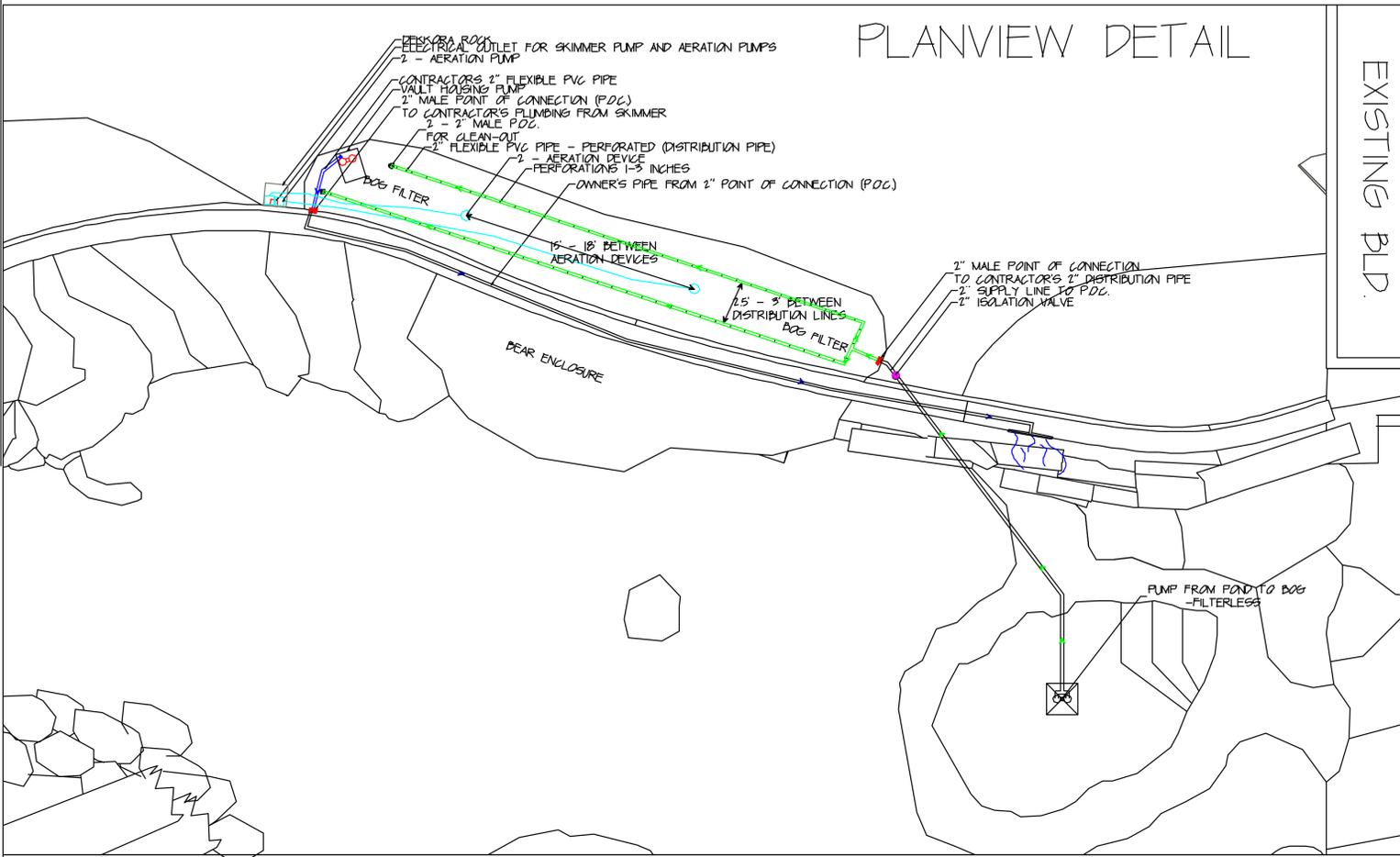
**Schalow's Nursery Inc.**  
 2 Miles east of the junction Heritage-13  
 8461 Heritage Drive  
 SERVING CENTRAL WISCONSIN SINCE "1965"

NOTES: \_\_\_\_\_ LANDSCAPE PLAN  
 \_\_\_\_\_ BEAR ENCLOSURE  
 DESIGNER: \_\_\_\_\_ RYAN VIRDEN  
 PHONE: 591-3478 / 1-800-944-1985 / FAX: 591-5523

NAME: \_\_\_\_\_ WILDWOOD ZOO - BEAR ENCLOSURE  
 ADDRESS: \_\_\_\_\_ 1800 S. RODDIS AVE.  
 CITY: \_\_\_\_\_ MARSHFIELD  
 PHONE: \_\_\_\_\_ (715) 387-6409

SCALE: \_\_\_\_\_ 1"=16'-0"  
 DATE: \_\_\_\_\_ 1-26-15





### NOTES:

#### OWNER'S RESPONSIBILITIES:

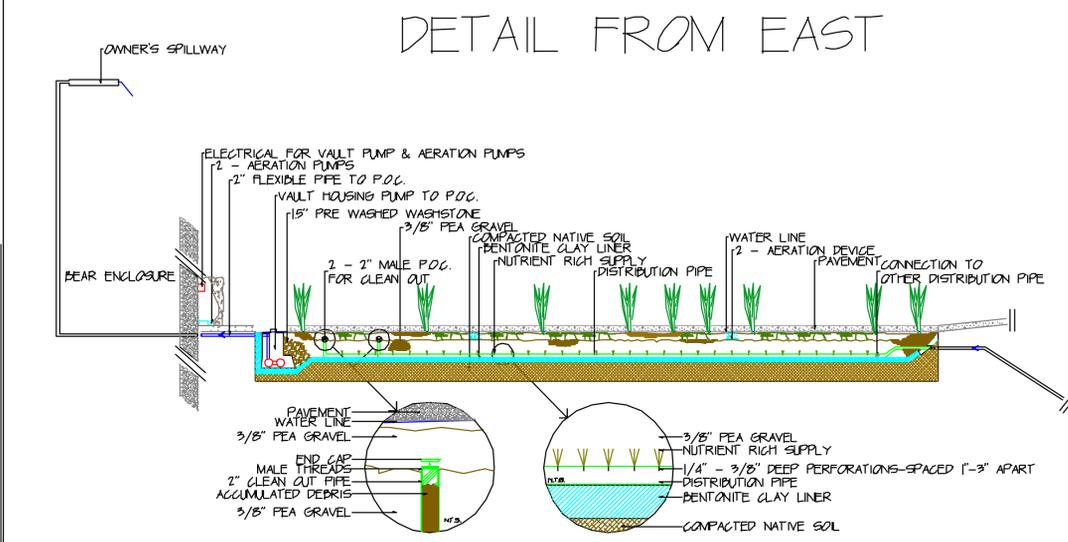
- WATER TO BE PUMPED FROM BOTTOM OF BEAR POOL THROUGH OWNER'S PLUMBING VIA OWNER'S PUMP.
- PUMP TO CIRCULATE 5000 GPM.
- PUMP SHOULD BE CAPABLE TO MOVE SOLIDS.
- NO ADDITIONAL FILTRATION TO BE ADDED TO PUMP OR PUMP HOUSING.
- 2" ISOLATION VALVE TO CONNECT TO OWNER'S PLUMBING.
- 2" POINT OF CONNECTION (POC) TO BE STUBBED OUT OF WALL FOR CONTRACTOR'S FITTINGS.
- CONTRACTOR'S VAULT PLUMBING TO CONNECT TO OWNER'S 2" MALE P.O.C.
- TWO 2" MALE P.O.C. TO BE STUBBED OUT OF WALL AT LEAST 1' PRIOR TO BOG INSTALLATION.
- PLUMBING FROM P.O.C. TO OWNER'S SPILLWAY.
- 2" FEMALE CONNECTIONS REQUIRED AT CLEAN OUTS.
- LENGTH OF HOSE FROM CLEAN OUT TO REACH DISPOSAL LOCATION OF OWNER'S CHOICE.
- DISTRIBUTION PIPE CLEAN OUT NEEDS TO BE DONE 2 TIMES A YEAR UNLESS DEBRIS BUILD UP IS EXCESSIVE.
- FLUSH DISTRIBUTION PIPE UNTIL CLEAR WATER IS RUNNING THROUGH PIPE.
- ELECTRICAL OUTLET TO BE SUPPLIED WITHIN 5' - 10' OF CONTRACTOR'S PUMP IN VAULT.
- TWO ELECTRICAL AERATION PUMPS AND ONE ELECTRICAL VAULT PUMP (ALL THREE TO BE PROVIDED BY CONTRACTOR) NEEDS ELECTRICAL SUPPLY.
- PLANTS NEED TO BE PRUNED BELOW WATER LINE BEFORE WINTER AND REMOVE LARGE DEAD/DYING DEBRIS FOR WINTERIZATION OF BOG.
- PLUMBING CAN BE SCHEDULE 40 PVC.
- ISOLATION VALVE MUST CONVERT TO CONTRACTOR'S 1" FITTINGS.
- CONTRACTOR IS NOT HELD RESPONSIBLE FOR THE ABOVE ITEMS INSTALLED BY OWNER.

#### CONTRACTOR RESPONSIBILITIES:

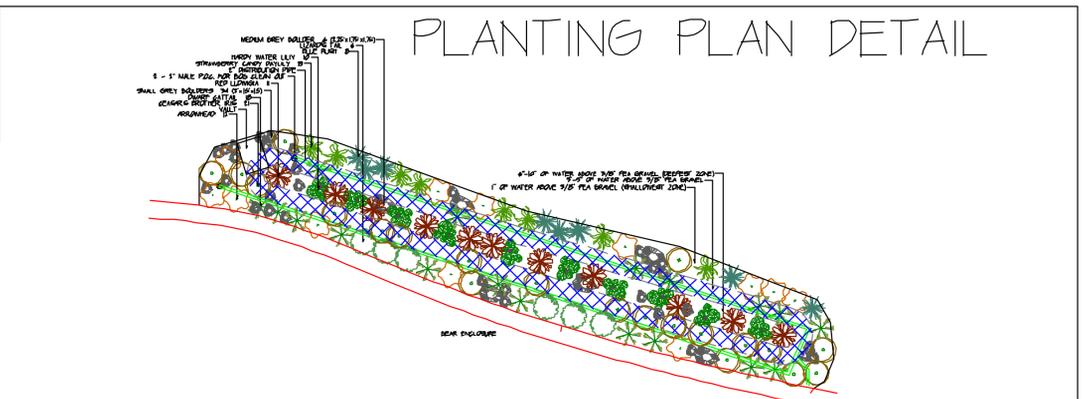
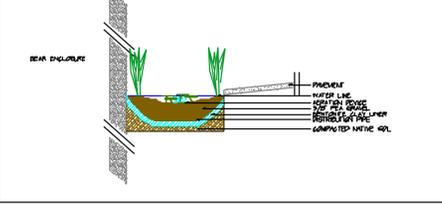
- CONTRACTOR TO PROVIDE AND INSTALL NECESSARY BIO-FILTRATION BOG MATERIALS INCLUDING PLUMBING AND EQUIPMENT TO PROPERLY DISTRIBUTE NUTRIENTS INTO BIO-FILTRATION BOG BETWEEN BOTH OF THE OWNER'S 2" MALE POINT OF CONNECTIONS.
- CONTRACTOR WILL INSTALL BIO-FILTRATION BOG ACCORDING TO CONSTRUCTION DETAILS AND NOTES LISTED ON THIS PAGE.

#### BIO-FILTRATION BOG CONSTRUCTION:

- DIG BOG 1'-10" DEEP.
- STORE EXCAVATED CLAY ON SITE TO BE USED AT A LATER DATE IN CONSTRUCTION OF LINER.
- COMPACT NATIVE SOIL TO INDUSTRY STANDARDS.
- INSTALL A 4" BENTONITE CLAY LINER ACCORDING TO BENTONITE CLAY MANUFACTURERS SPECIFICATIONS.
- SLOPE OF THE WALLS OF THE LINER TO BE 1:1 WITH A 2 1/2" - 3" WIDE FLAT FLOOR FLOOR/BOTTOM.
- DISTRIBUTION PIPE TO REST AT INTERSECTION OF SLOPED WALLS AND FLOOR.
- 2" FEMALE FITTINGS TO BE PROPERLY CONNECTED AT OWNER'S POINT OF CONNECTION (POC).
- 2" FLEXIBLE PVC PIPE (DISTRIBUTION PIPE) TO BE INSTALLED ALONG BOTTOM OF BOG ACCORDING TO DETAILS.
- DISTRIBUTION PIPE TO BE PERFORATED WITH 1/4"-3/8" DEEP PERFORATIONS ON THE TOP OF THE DISTRIBUTION PIPE TO PROPERLY SUPPLY THE BIO-FILTRATION BOG WITH NUTRIENTS FROM THE BEAR POOL.
- PERFORATIONS TO BE 1/4"-3/8" DEEP AND CUT PERPENDICULAR TO PIPE EVERY 1'-3" THE LENGTH OF THE DISTRIBUTION PIPE.
- PERFORATIONS NOT TO BE WIDER THAN 5/16 OF AN INCH.
- LATERAL DISTRIBUTION PIPES TO BE CONNECTED AND INSTALLED SO THAT WHEN RESTING ON THE BOTTOM THEY WILL BE PERMANENTLY 2 1/2" - 3" APART FROM EACH OTHER THE LENGTH OF THE BOG.
- VERTICAL SOLID CLEAN OUTS TO BE ATTACHED AT THE END OF EACH DISTRIBUTION PIPE CLOSEST TO THE VAULT FOR OWNER'S MAINTENANCE.
- 2" MALE POINT OF CONNECTION TO BE INSTALLED JUST BELOW WATER LEVEL.
- THREADED END CAPS TO BE INSTALLED DURING NORMAL OPERATION THROUGHOUT THE YEAR.
- PREWASHED 3/8" ROUNDED PEA GRAVEL TO PROVIDE PLANT AND FILTER SUBSTRATE.
- WATER SHOULD COVER THE ENTIRE BOG.
- A 1" WIDE SHELF AROUND THE PERIMETER OF THE BOG TO BE COVERED WITH 1" OF WATER.
- THE SHELF AROUND THE VAULT COULD VARY IN WIDTH OF SHELF DUE TO POSITION OF VAULT.
- THE CENTER OF THE GRAVEL AREA IN THE BOG SHOULD BE AT A DEPTH BELOW THE WATER SURFACE OF 6"-10".
- THE MAJORITY OF THE PLANTS INSTALLED IN THE SHALLOWEST SHELF WILL ONLY SURVIVE IF THE WATER IS 1" DEEP.
- THE DISTANCE BETWEEN THE SURFACE OF THE GRAVEL DIRECTLY OVER THE TOP OF DISTRIBUTION PIPE IS 12" OR (1).
- THE DISTANCE BETWEEN THE SURFACE OF THE GRAVEL AND TOP OF THE BENTONITE CLAY LINER CAN NOT EXCEED 12" OR (1).
- 2 AERATION DEVICES TO BE INSTALLED IN THE DEEP CHANNEL TO PROVIDE OXYGEN FOR 10,000 GALLONS OF WATER.
- A DEKORRA ROCK TO COVER AERATION PUMPS AND VAULT PUMP ELECTRICAL CONNECTIONS.
- DEKORRA ROCK TO BE PERMANENTLY FASTENED TO THE CONCRETE BY MEANS OF BOLT AND LOCK-NUT.
- VAULT TO BE INSTALLED AT FURTHEST SOUTHWEST POINT OF BOG TO BE CLOSEST TO OWNER'S 2" MALE P.O.C. TO SUPPLY CLEAN WATER TO OWNER'S SPILLWAY.
- VAULT TO DO THE FOLLOWING: HOUSE ALL PROPER PLUMBING, PUMP, ALLOW PUMP TO MOVE CLEAN WATER FROM BOG TO SPILLWAY, AND DOES NOT FILTER FLOATING DEBRIS.



### SECTIONAL DETAIL

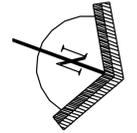


2 Miles east of the junction Heritage-13  
 8461 Heritage Drive  
 Marshfield, WI. 54449  
 SERVING CENTRAL WISCONSIN SINCE "1965"

NOTES: \_\_\_\_\_ BEAR ENCLOSURE-FILTRATION BOG  
 \_\_\_\_\_ CONSTRUCTION DETAILS AND PLANTING PLAN  
 DESIGNER: \_\_\_\_\_ RYAN VIRDEN  
 PHONE: 591-3478 / 1-800-944-1985 / FAX: 591-5523

NAME: \_\_\_\_\_ WILDWOOD ZOO - BEAR ENCLOSURE  
 ADDRESS: \_\_\_\_\_ 1800 S. RODDIS AVE.  
 CITY: \_\_\_\_\_ MARSHFIELD  
 PHONE: \_\_\_\_\_ (715) 387-6409

SCALE: \_\_\_\_\_ 1"=5'-0"  
 DATE: \_\_\_\_\_ 1-26-15



















# City of Marshfield Memorandum

**TO: Board of Public Works**  
**FROM: Tom Turchi, City Engineer**  
**DATE: February 26, 2015**  
**RE: Review of right turn lane from Veterans Parkway to Maple Avenue.**

## **BACKGROUND**

Over the past several years since the installation of the raised median at the intersection of Maple Avenue and Veterans Parkway we have been experiencing numerous signal knockdowns.

## **ANALYSIS**

The raised median at the intersection of Maple Avenue and Veterans Parkway was installed during the fall of 2011 as part of a quiet zone improvement in which the city achieved a 24 hour quiet zone. Since that time we have observed numerous knockdowns of the traffic signal pole on the north east corner of this intersection from semi-trucks making a right turn from Veterans Parkway north to Maple Avenue.

### Record of knockdowns

- 1 12/27/2011
- 2 7/2/2012
- 3 9/14/2012
- 4 9/12/2012
- 5 9/28/2012
  - NO RIGHT TURN added October 2012
- 6 8/23/2013
- 7 7/15/2014
- 8 7/31/2014
- 9 8/26/2014
- 10 9/12/2014
- 11 9/29/2014
- 12 10/24/2014
- 13 12/22/2014
- 14 12/23/2014
- 15 2/9/2015

To combat this issue no right turn signs at Maple Avenue were placed prior to Vine Avenue, between Vine and Maple Avenue and on top of the Maple Avenue Street sign.

Even though multiple signs have been installed and local companies have notified their delivery drivers not to use Maple Avenue, knockdowns still continue. One specific incident that occurred on December of 2014 left our damaged traffic pole lying across the tracks where a Canadian National train collided with our traffic signal pole. An incident such as this created a circumstance that increases the probability of a possible train derailment. Canadian National continues to use this corridor for "unit trains" hauling rail cars containing oil where a derailment could have a detrimental impact on our community.

Several of these crashes have also damaged or knocked-down the railroad crossing signals.

As you may recall last summer the city worked with Canadian National, Wisconsin Department of Transportation and the Office of the Commissioners of Railroads to close the Maple Avenue intersection on a temporary basis. My fear is that with the frequency of these incidents we may soon see the OCR and CN push for a complete closure of this intersection.

Traffic volumes for peak hour right turning movements from Veterans Parkway onto Maple Avenue are as follows:

- 7 – 8 am 50 VPH
- 12 – 1 PM 25 VPH
- 4 – 5 PM 55 VPH

This equates to approximately 560 ADT utilizing the right turn lane.

To address this situation I would propose reviewing several different options to provide final resolution to this issue.

1. Do nothing – The length of the closure may provide enough training to semi-truck drivers to avoid using this intersection.
2. Permanent closure of the right turn lane – This would eliminate the knock downs but creates some inconvenience to the traveling public.
3. Construct geometric changes – construct a variety of changes to the intersection to move the signals back out of harm's way. Estimated costs will be developed for this discussion.
4. Review other options that may be cost effective adjustments to eliminate these occurrences.

### **RECOMMENDATION**

I recommend that the right turn lane be closed on a temporary basis for 6 - months to ascertain if there are significant issues with this closure. I further recommend that following the 6 - month temporary closure that the Board of Public Works discuss and consider which option would be in the best interest of the city.

Respectfully submitted,

*Thomas R. Turchi*

Thomas Turchi

Concurrence:

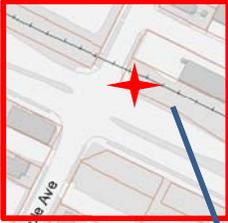


Steve Barg, City Administrator



Daniel G. Knoeck, P.E. Director of Public Works

**Proposed Right Turn Lane Closure**



**Current No Right Turn Sign Locations**

