

Village of Bayside  
9075 N Regent Road  
Village Hall Board Room  
April 27, 2020, 6:00pm

## ARCHITECTURAL REVIEW COMMITTEE AGENDA

PLEASE TAKE NOTE: Due to the COVID-19 Pandemic, the Architectural Review Committee will be meeting via remote conferencing at the above noted time and date, at which the following items of business will be discussed and possibly acted upon. There will be a few chairs socially distanced in the Board Room for those wishing to attend in person.

### I. CALL TO ORDER AND ROLL CALL

### II. APPROVAL OF MINUTES

- A. Approval of March 2, 2020 meeting minutes.

### III. BUSINESS

- A. **8530 N. Fielding Road- Robert Mueller-** The proposed project is for a rubber roof installation over the garage and front door. A 3' x 16' horizontal band roof will be added over the garage door and a 6' x 10' horizontal band roof will be added over front door. Four square recessed LED lights will be added in the bottom of roof structure over the garage. Bamboo decking to be used for horizontal banding on roof matching existing design.

Please review detailed plans here.

- B. **9070 N Bayside Drive- Tim Wayman-** The proposed project is a garden shed that is 10'4" X 14'6" in size. The shed is constructed with a combination of board, batten and cedar shingle siding to match the home, and will be constructed on a 150 square foot concrete slab. The shed will be located in the southwest corner of the rear yard.

Please review detailed plans here.

- C. **1150 E. Standish Place- Max & Anneliese Dickman-** The proposed project is to replace an existing 450 square foot deck. The footprint will remain the same. The existing surface will be removed and replaced with grey composite decking and framed.

Please review detailed plans here.

- D. **8835 N Tennyson Drive- Donna Miller-** The proposed project is a fence. A 6' high by 98' long wood privacy fence will be installed on southside of backyard inside lot line.

Please review detailed plans here.

- E. **1434 E. Brown Deer Rd.- Kathryn Kamm-** The proposed project is a 3' cedar fence in the front yard with black PVC coated mesh panels, approximately 160 linear feet. The redwood pergola would be installed over spa on concrete

pad/redwood deck. The project also requires review by the Board of Zoning Appeals.

Please review detailed plans here.

- F. 1440 E. Hermitage Road-Village of Bayside-** The proposed project is located in an existing easement and includes a new Control Building for a Sanitary Sewer Lift Station to replace the existing building. The size of new building is 8' (long) by 7' (wide) and 7' tall, which will allow accessibility into the control building. The new building will be constructed of wood, with cement board siding. The existing generator would be replaced with a new generator and would be located on a pad next to the building, similar to the existing arrangement.

Please review detailed plans here.

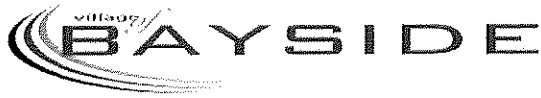
- G. 1460 E. Bay Point Rd- Village of Bayside-** The proposed project is located in Village right-of-way and includes a new Control Building for a Sanitary Sewer lift station to replace the existing building in the right-of-way. The structure will be located slightly east of original location, above the floodplain to eliminate existing flooding issues. The existing generator will be replaced and relocated to a concrete pad in the location of the existing control building. The new size of building is 8' (long) by 7' (wide) and 7' tall with accessibility into the control building. The new building will be constructed of wood, with cement board sidings.

Please review detailed plans here.

#### **IV. ADJOURNMENT**

The Architectural Review Committee will utilize Zoom video conferencing software for this meeting. To join the zoom meeting using a computer or tablet: <https://zoom.us/j/91892015206?pwd=SFV2SzhOS0xmem1WdFNjOVEvT3BJQT09>, if using a telephone to dial in: 312-626- 6799. The meeting id is: 918 9201 5206, password 114390.

Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. Contact Village Hall at 414-206-3915. It is possible that members of and possibly a quorum of members of other Boards, Commissions, or Committees of the Village may be in attendance in the above stated meeting to gather information; no action will be taken by any other Boards, Commissions, or Committees of the Village except by the Board, Commission, or Committee noticed above. Agendas and minutes are available on the Village website ([www.baysidewi.gov](http://www.baysidewi.gov)).



**I. CALL TO ORDER**

Chairperson Marisa Roberts called the meeting to order at 6:00pm

**II. ROLL CALL**

Trustee Liaison: Mike Barth

Chair: Marisa Roberts

Members: John Krampf  
Dan Zitzer  
Liz Levins

Also Present: La'Neka Horton  
There was one person in the audience

**III. APPROVAL OF MINUTES**

**A. Approval of the January 13, 2020 minutes.**

Motion by Trustee Barth, seconded by John Krampf, to approve the March 2, 2020 minutes. Motion carried unanimously.

**IV. BUSINESS**

**A. Window replacement & enlargement. Storm & door replacement.  
803 E. Donges Rd.**

John McDonald appeared on behalf of the project. There were no neighbors in attendance.

The applicant proposes replacing three windows with larger windows starting 20 inches below current windowsill. A new exterior door and storm door will also be installed.

Chairperson Roberts questioned whether the door and window styles would be changing. Mr. McDonald stated this was a new door and noted the window style would be the same as the existing windows.

Dan Zitzer requested an explanation of double shoulders. Mr. McDonald stated double shoulders are double 2 x 4 used for support between the windows.

Motion by Liz Levins, seconded by John Krampf to approve the window replacements and new exterior door and storm door replacements. Motion carried unanimously.

**V. ADJOURNMENT**

Motion by Chairperson Roberts, seconded by Dan Zitzer, to adjourn the meeting at 6:10 p.m. Motion carried unanimously.

Respectfully submitted,

La'Neka Horton

# Project Proposal

Date 3/30/20

Property Address 8530 N FIELDING RD

Zoning \_\_\_\_\_

- |   |   |
|---|---|
| <input type="checkbox"/> Accessory Structures/Generators<br><input type="checkbox"/> Additions/Remodel<br><input type="checkbox"/> Bluff Management<br><input type="checkbox"/> Commercial Signage<br><input type="checkbox"/> Decks/Patios<br><input type="checkbox"/> Fence<br><br><input type="checkbox"/> Fire Pits<br><br><input type="checkbox"/> Landscaping requiring Impervious Surface/Fill/Excavation Permit | <input type="checkbox"/> New Construction<br><input type="checkbox"/> Play Structures<br><input type="checkbox"/> Recreational Facilities/Courts<br><input type="checkbox"/> Roofs<br><input type="checkbox"/> Solar Panels/Skylights<br><input type="checkbox"/> Swimming Pools<br><input type="checkbox"/> Windows/Doors-change exceeds 25% of opening<br><input checked="" type="checkbox"/> Other |
|---|---|

Proposed project details (type of work, size, materials, etc.):

ADD HORIZONTAL BAND ROOF OVER GARAGE DOOR & OVER FRONT DOOR  
BAMBOO FACING ON HORIZONTAL BAND/SQUARE LED LIGHTS RECESSED  
IN BOTTOM OF ROOF STRUCTURE

\*\*\*\*\* For Office Use Only \*\*\*\*\*

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Color photographs showing project location, elevations and surrounding views
<input type="checkbox"/>	<input type="checkbox"/>	Two (2) complete sets of building plans (including elevations and grading)
<input type="checkbox"/>	<input type="checkbox"/>	Survey
<input type="checkbox"/>	<input type="checkbox"/>	Samples or brochures showing materials, colors and designs
<input type="checkbox"/>	<input type="checkbox"/>	Application Fee
<input type="checkbox"/>	<input type="checkbox"/>	Parcel Number
<input type="checkbox"/>	<input type="checkbox"/>	ARC Agenda Date:
<input type="checkbox"/>	<input type="checkbox"/>	Building Permit
<input type="checkbox"/>	<input type="checkbox"/>	Fill Permit
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Impervious Surface Permit
<input type="checkbox"/>	<input type="checkbox"/>	Plan Commission/Conditional Use Permit
<input type="checkbox"/>	<input type="checkbox"/>	Tax Key Number
<input type="checkbox"/>	<input type="checkbox"/>	Right-of-Way/Excavation Permit
<input type="checkbox"/>	<input type="checkbox"/>	Variance Required



4/15/2020

Attention:  
Village of Bayside, WI  
Architecture Review Committee

<p>PROJECT/SITE OWNER: Robert Mueller</p> <p>PROJECT ADDRESS: 8530 N Fielding Rd</p>	<p>PROJECT SUMMARY: Add roof with horizontal band (bamboo facing) over garage and front door.</p>
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**VILLAGE CODE REVIEW**

Reviewer believes this project complies with the following Village Code sections:

14-2(a)(2) Architectural Review Committee: *Construction and renovation should be made so that exterior architectural appearance shall be substantially consistent with structures already constructed in the immediate neighborhood, or with the character of the applicable district.*

**STRUCTURAL NOTE**

New roof will add additional loads to the cantilevered bump out wall. New and existing framing is to have adequate structural support.

**STRUCTURAL IS APPROVED AS NOTED**

**Dan Povolo, PE**  
Plans Examiner  
608-208-2516  
dpovolo@safebuilt.com

1-262-346-4577 SAFEbuilt, Inc.	<b>WI UNIFORM PERMIT APPLICATION</b> hartfordinspections@safebuilt.com Inspections need to be called in by 4 pm for next business day inspections	PERMIT NO. TAXKEY#
<b>ISSUING MUNICIPALITY</b>	<input type="checkbox"/> TOWN <input checked="" type="checkbox"/> VILLAGE <input type="checkbox"/> CITY OF Bayside	<b>PROJECT LOCATION</b> (Building Address) <b>8530 N Fielding Rd</b>
	COUNTY: Milwaukee	<b>PROJECT DESCRIPTION</b> Front Porch Roof <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> ONE & TWO FAMILY
Owner's Name Robert Mueller	Mailing Address - Include City & Zip 8530 N Fielding Rd, Bayside, WI 53217	Telephone - Include Area Code 414 520 9760
Construction Contractor (DC Lic No.) Stansen Building and Remodeling	Mailing Address - Include City & Zip 16800 Greenfield Ave #300 PO 1265 Brookfield, WI 53005	Telephone - Include Area Code 262 789 7508
Dwelling Contractor Qualifier (DCQ Lic No.)	Dwelling Contractor Qualifier shall be an owner, CEO, COB, or employee of Dwelling Contractor	Telephone - Include Area Code
Plumbing Contractor (Lic No.)	Mailing Address - Include City & Zip	Telephone - Include Area Code
Electrical Contractor (Lic No.)	Mailing Address - Include City & Zip	Telephone - Include Area Code
Stansen Building and Remodeling	16800 Greenfield Ave #300 PO 1265 Brookfield, WI 53005	262 789 7508
HVAC Contractor (Lic No.)	Mailing Address - Include City & Zip	Telephone - Include Area Code
<b>PROJECT INFORMATION</b>		Subdivision Name <b>Pelham Heath</b>
Zoning District Section 9	Lot Area <b>13508</b> Sq. Ft.	Lot No. <b>9</b> Block No. <b>6</b>
N.S.E.W. Setbacks	Front 50 Ft	Rear 99 Ft
Left 12 Ft	Right 12 Ft	
<b>1a. PROJECT</b>	<b>3. TYPE</b>	<b>6. STORIES</b>
<input type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Raze <input checked="" type="checkbox"/> Alteration <input type="checkbox"/> Repair <input type="checkbox"/> Move <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Single Family <input type="checkbox"/> Two Family <input type="checkbox"/> Multi <input type="checkbox"/> Commercial	<input type="checkbox"/> 1-Story <input checked="" type="checkbox"/> 2-Story <input type="checkbox"/> Other
<b>1b. GARAGE</b>	<b>4. CONST. TYPE</b>	<b>7. FOUNDATION</b>
<input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached	<input checked="" type="checkbox"/> Site Constructed <input type="checkbox"/> Mfd. UDC <input type="checkbox"/> Mfd. HUD	<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Masonry <input type="checkbox"/> Treated Wood <input type="checkbox"/> ICF <input type="checkbox"/> Other
<b>2. AREA</b>	<b>5. ELECTRICAL</b>	<b>8. USE</b>
Basement <sup>800</sup> Sq. Ft. Living Area <sup>1784</sup> Sq. Ft. Garage <sup>488</sup> Sq. Ft. Other <sup>3070</sup> Sq. Ft. TOTAL <sup>3070</sup>	Entrance Panel Size <sup>150</sup> amp Service: <input checked="" type="checkbox"/> New <input type="checkbox"/> Rewire <input type="checkbox"/> Phase <sup>120</sup> Volts <input type="checkbox"/> Underground <input checked="" type="checkbox"/> Overhead Power Company: WeEnergies	<input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Other
		<b>9. HVAC EQUIPMENT</b>
		<input checked="" type="checkbox"/> Forced Air Furnace <input type="checkbox"/> Radiant Baseboard or Panel <input type="checkbox"/> Heat Pump <input type="checkbox"/> Boiler <input checked="" type="checkbox"/> Central Air Conditioning <input type="checkbox"/> Other
		<b>10. PLUMBING</b>
		Sewer <input checked="" type="checkbox"/> Municipal <input type="checkbox"/> Septic No. _____
		<b>11. WATER</b>
		<input checked="" type="checkbox"/> Municipal Utility <input type="checkbox"/> Private On-Site Well
		<b>12. ENERGY SOURCE</b>
		Fuel Nat. Gas L.P. Oil Elec. * Solid Solar Space Htg <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Water Htg <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		* <input type="checkbox"/> Dwelling unit will have 3 kilowatt or more installed electric space heater equipment capacity.
		<b>13. HEAT LOSS (Calculated)</b>
		Total _____ BTU/HR
		<b>14. ESTIMATED COST</b>
		\$5000
<p>I understand that I am subject to all applicable codes, laws, statutes and ordinances, including those described on the Notice to Permit Applicants form; am subject to any conditions of this permit; understand that the issuance of this permit creates no legal liability, express or implied, on the state or municipality; and certify that all the above information is accurate. If one acre or more of soil will be disturbed, I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and the owner shall sign the statement on the Notice to Permit Applicants form. I expressly grant the building inspector, or the inspector's authorized agent, permission to enter the premises for which this permit is sought at all reasonable hours and for any proper purpose to inspect the work which is being done.</p> <p><input checked="" type="checkbox"/> I vouch that I am or will be an owner-occupant of this dwelling for which I am applying for an erosion control or construction permit without a Dwelling Contractor Certification and have read the cautionary statement regarding contractor responsibility on the Notice to Permit Applicants form.</p> <p style="text-align: center;"><b>ROBERT MUELLER</b> Robert Mueller</p> <p style="text-align: right;">3/30/20 312020</p>		
<i>Robert Mueller</i>		
<b>INSPECTIONS NEEDED</b> Building <input type="checkbox"/> Footing <input type="checkbox"/> Foundation <input type="checkbox"/> Rough <input type="checkbox"/> Insulation <input type="checkbox"/> Bsmt. Fl. <input type="checkbox"/> Final Electric <input type="checkbox"/> Rough <input type="checkbox"/> Service <input type="checkbox"/> Final <b>Plumbing</b> <input type="checkbox"/> Rough <input type="checkbox"/> Underfloor <input type="checkbox"/> Final <b>HVAC</b> <input type="checkbox"/> Rough <input type="checkbox"/> Final		
<b>FEES:</b>	<b>PERMIT(S) ISSUED</b>	SEAL NO. _____ Municipality No. _____
Building Fee <u>85</u> Zoning Fee _____ WI Seal _____ Electric Fee <u>60</u> Plumbing Fee _____ HVAC Fee _____ Adm. Fee _____ Other <u>100</u> Total <u>205</u>	Bldg. # At top of form _____ Zoning # Section 9 _____ Elec. # _____ Plmb. # _____ HVAC # _____	<b>RECEIPT</b> CK # <u>1994</u> Amount \$ <u>205</u> Date <u>4/6/2020</u> From <u>Robert</u> Rec By. <u>RSK</u>
		<b>PERMIT EXPIRATION:</b> Permit expires two years from date issued unless municipal ordinance is more restrictive.
		<b>PERMIT ISSUED BY MUNICIPAL AGENT:</b> Name _____ Date _____ Certification No. _____

White - Municipal Files

Yellow - Applicant

Pink - Clerk/Assessor


COPY

## Scope of Work

Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

Item	Cost
Install horizontal roof over garage door and over front door	\$4000
Install lights in bottom of horizontal structure	\$1000
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Total Cost \$5000

Signature 

Date 3/30/20

## Requested Changes at time of work

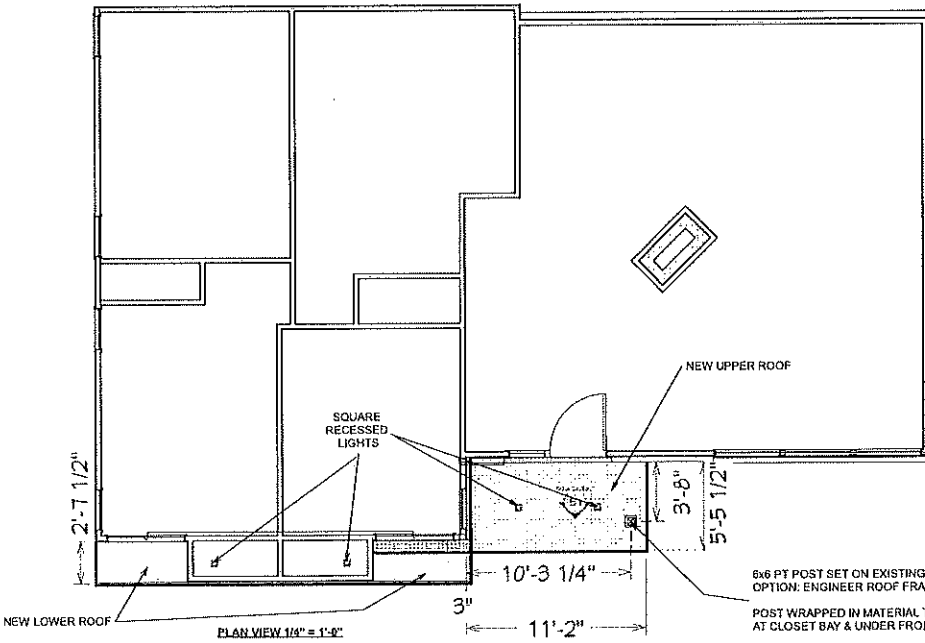
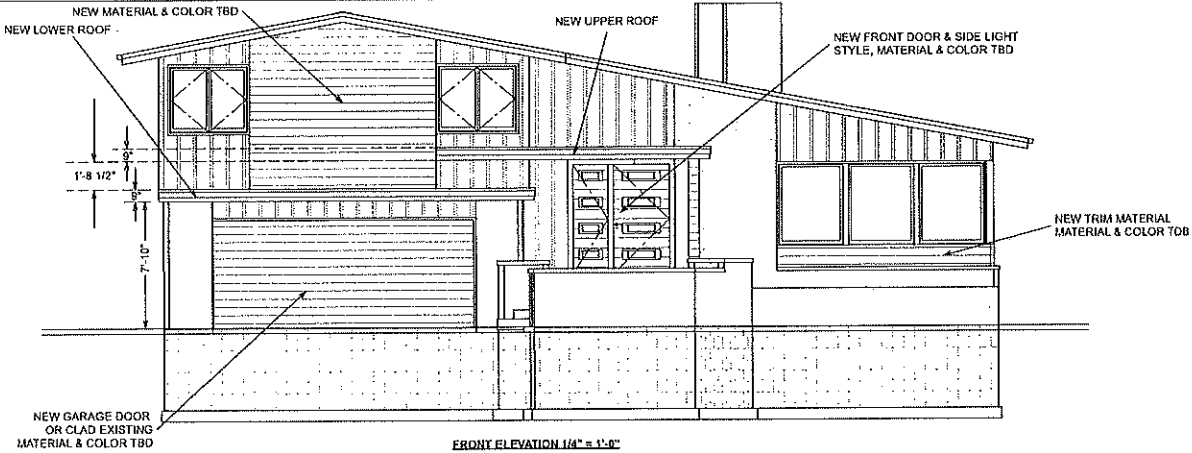
Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

Item	Cost
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Total Cost \_\_\_\_\_

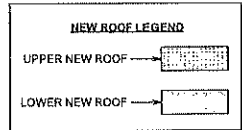
Signature \_\_\_\_\_

Date \_\_\_\_\_



PRELIMINARY BID SET PLANS  
FOR ESTIMATING ONLY.  
NOT TO BE USED FOR CONSTRUCTION.  
ALL DIMENSIONS ARE APPROXIMATE  
AND MUST BE DETERMINED AND VERIFIED  
BY INSTALLING CONTRACTOR.  
FRAMING IS FOR REFERENCE ONLY, IT IS  
RESPONSIBILITY OF INSTALLING CONTRACTOR  
TO DETERMINE APPROPRIATE FRAMING  
SPECIFICATIONS AND INSTALLATION.

NOTE: DIMENSIONS FROM HOUSE  
SHEATHING TO NEW ROOF FRAMING



6x6 PT POST SET ON EXISTING FOOTED PLANTER (SEE FRAMING PLAN)  
OPTION: ENGINEER ROOF FRAMING TO ELIMINATE POST

POST WRAPPED IN MATERIAL TO MATCH NEW SELECTION  
AT CLOSET BAY & UNDER FRONT LIVING ROOM WINDOWS

**CHRIS EGGNER**  
DESIGN-BUILD-REMODEL

PROJECT DESCRIPTION:  
FRONT ELEVATION REMODEL  
NEW FLAT ROOF OVER GARAGE  
GARAGE DOOR  
EXTERIOR MATERIAL CHANGES & PAINT

OWNER:  
BOB & C.J. MUELLER  
8530 N. FIELDING RD.  
BAYSIDE, WI 53217

DRAWINGS PROVIDED BY:  
CHRIS EGGNER DESIGN-BUILD-REMODEL LLC  
& FOUR SEASONS CONSTRUCTION  
14318 W. NATIONAL AVE. NEW WAUWATOSA, WI 53151  
920.799.0816

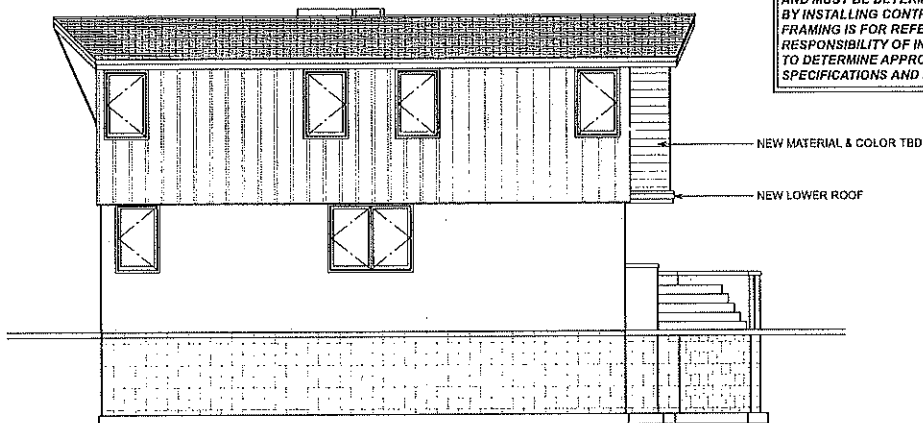
DATE:  
4/21/2014

SCALE:  
1/4" = 1'-0"

SHEET:  
A-1



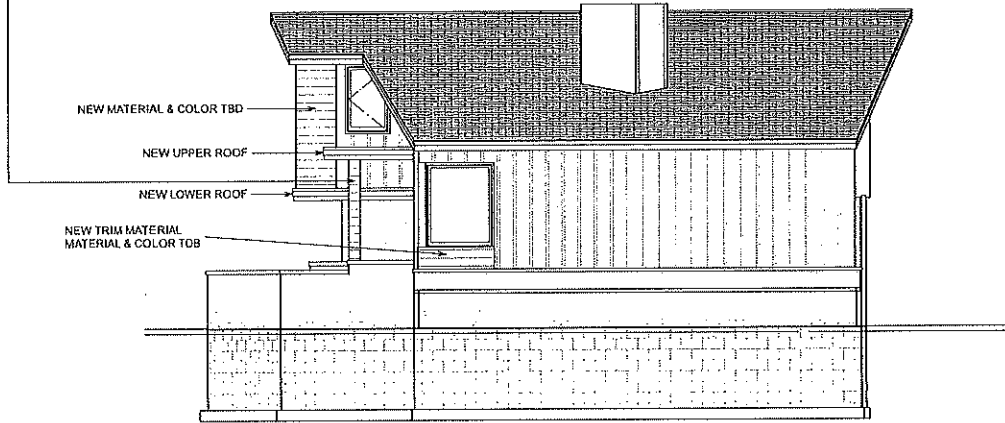
PRELIMINARY BID SET PLANS  
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 AND MUST BE DETERMINED AND VERIFIED  
 BY INSTALLING CONTRACTOR.  
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 SPECIFICATIONS AND INSTALLATION.



NORTH SIDE ELEVATION 1/4" = 1'-0"

POST SET ON EXISTING FOOTED PLANTER (SEE FRAMING PLAN)  
 OPTION: ENGINEER ROOF FRAMING TO ELIMINATE POST

POST WRAPPED IN MATERIAL TO MATCH NEW SELECTION  
 AT CLOSET BAY & UNDER FRONT LIVING ROOM WINDOWS



SOUTH SIDE ELEVATION 1/4" = 1'-0"



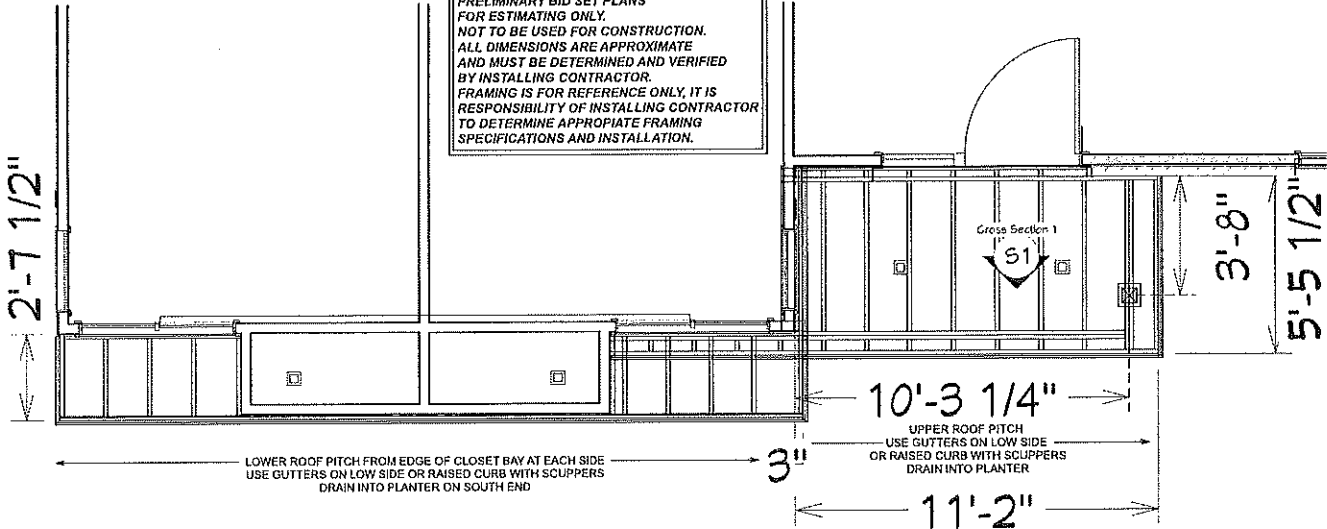
PROJECT DESCRIPTION:  
 REMODEL EXTERIOR  
 REPAIR PLUMBING  
 GARAGE DOOR AND FRONT DOOR  
 EXTERIOR MATERIAL CHANGES & PAINT

BOB & CJ MUELLER  
 1000 W. WATSON AVE.  
 BAYSIDE, WI 53217

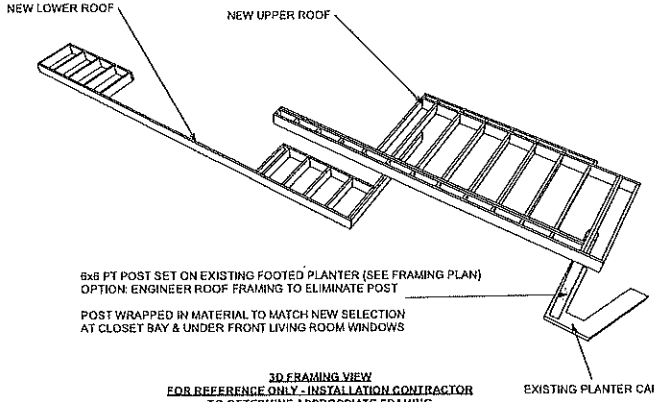
DRAWINGS PROVIDED BY:  
 CHRIS EGNER DESIGN-BUILD-RENOVATE, LLC  
 & FOUR SEASONS SHOPS  
 13188 W. NATIONAL AVE. NEW BRUNSWICK, WI 53151  
 262.775.7414

DATE:  
 4/27/2014  
 SCALE:  
 SHEET:  
 A-2

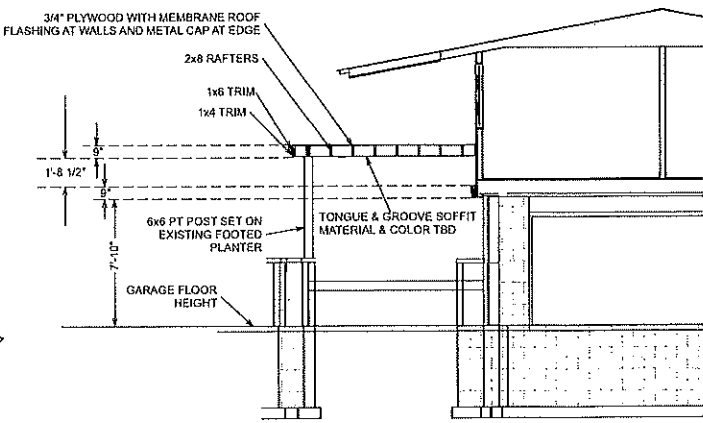
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SPECIFICATIONS AND INSTALLATION.**



**NEW ROOF PLAN VIEW 1/2" = 1'-0"  
FOR REFERENCE ONLY - INSTALLATION CONTRACTOR  
TO DETERMINE APPROPRIATE FRAMING**



**3D FRAMING VIEW  
FOR REFERENCE ONLY - INSTALLATION CONTRACTOR  
TO DETERMINE APPROPRIATE FRAMING**



**NEW ROOF CROSS SECTION 1/4" = 1'-0"  
FOR REFERENCE ONLY - INSTALLATION CONTRACTOR  
TO DETERMINE APPROPRIATE FRAMING**

**CHRIS EGNER**  
DESIGN-BUILD-CONTRACT

7/2/2017 DESCRIPTION:  
IRONCE ELEVATION, REMODEL  
GARAGE DOOR AND FRONT DOOR  
EXTERIOR MATERIAL CHANGES & PAINT

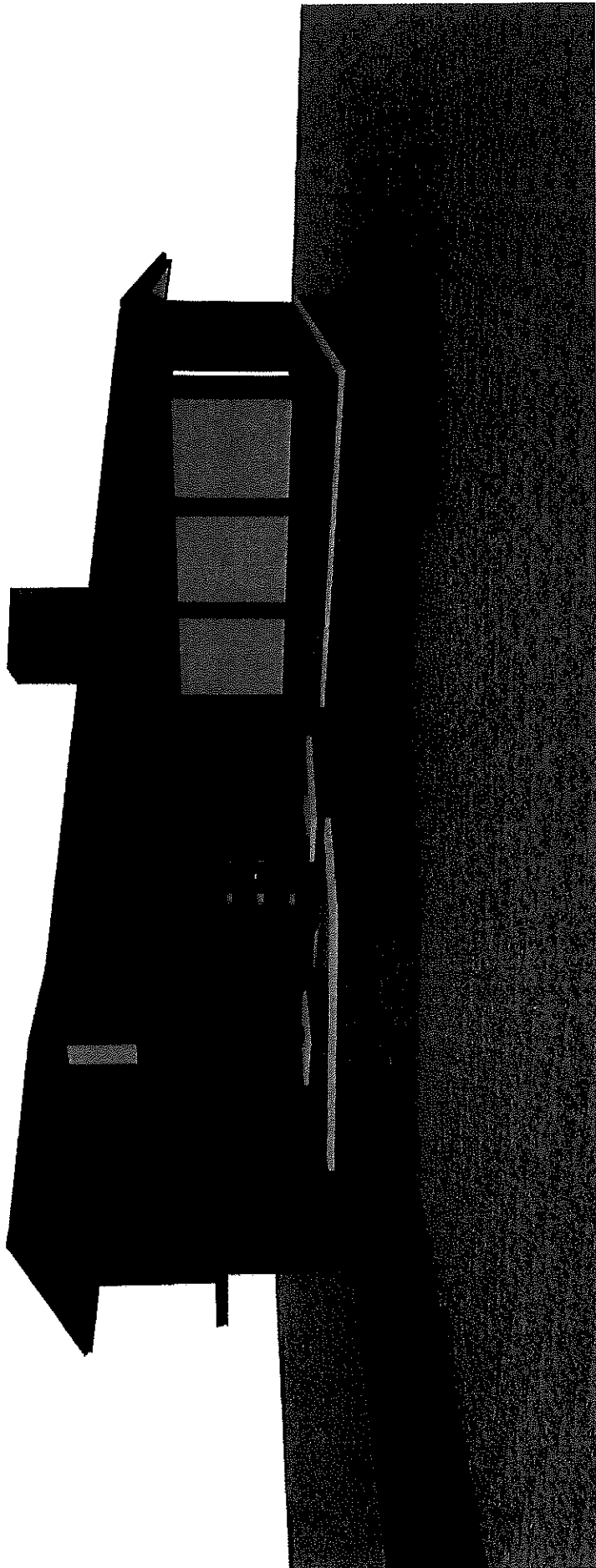
CONTRACTOR:  
BOB & CJ MUELLER  
6530 N. FIELDING RD.  
BAYSIDE, WI 53217

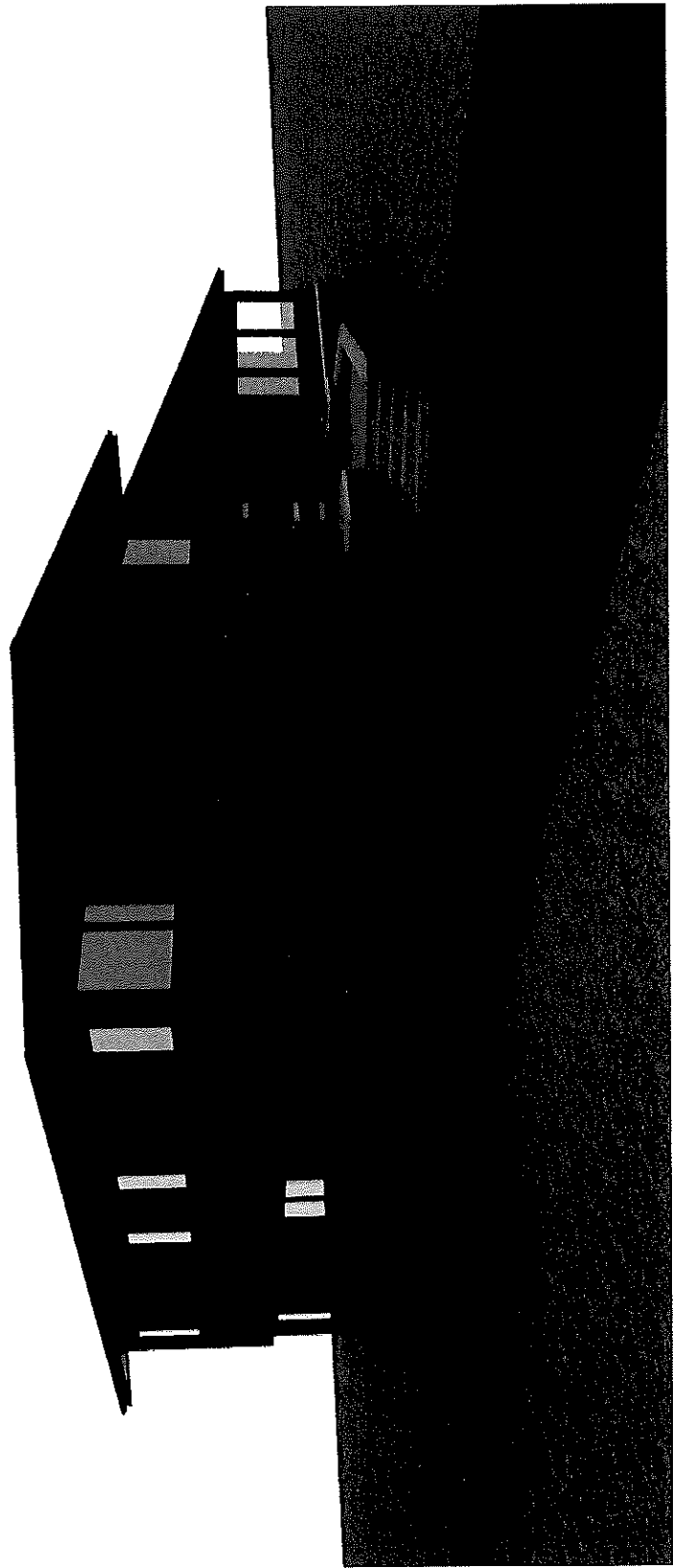
DRAWINGS PROVIDED BY:  
CHRIS EGNER DESIGN-BUILD-CONTRACT, LLC  
& FOUR SEASONS SURROUNDS  
12378 W. NATIONAL AVE., NEW BRUNSWICK, NJ 08901  
908-997-0018

DATE:  
4/27/2019

SCALE:

SHEET:  
A-3







Support document for Mueller 8530 N Fielding Rd Horizontal Band Roof  
Permit



Current view of 8530 N Fielding Rd

Support document for Mueller 8530 N Fielding Rd Horizontal Band Roof  
Permit



Second current view of 8530 N Fielding Rd

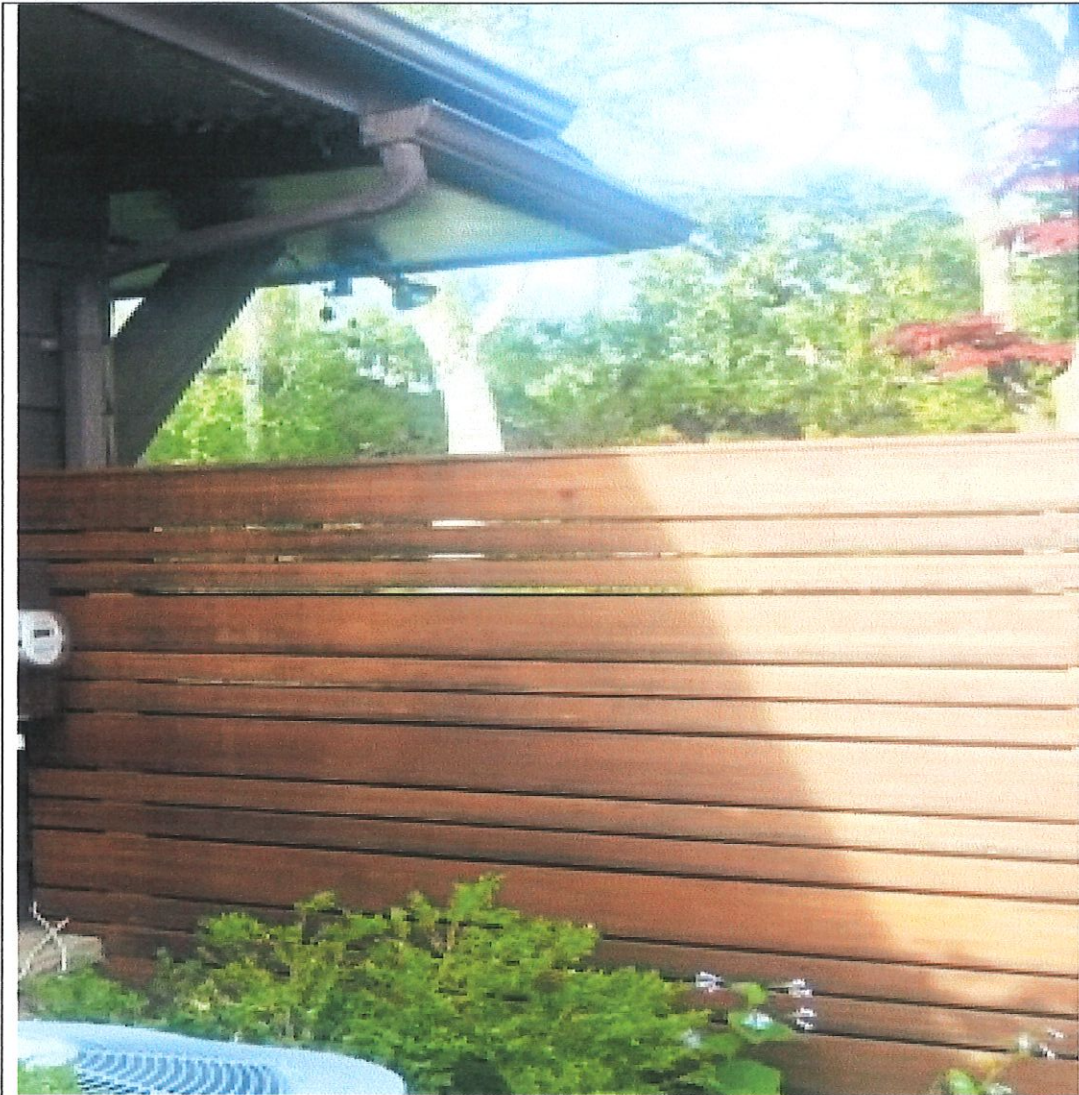


Support document for Mueller 8530 N Fielding Rd Horizontal Band Roof Permit



Rendering of 8530 N Fielding with horizontal band roof in place

Support document for Mueller 8530 N Fielding Rd Horizontal Band Roof Permit




Bamboo decking to be used for horizontal banding on roof

# Support document for Mueller 8530 N Fielding Rd Horizontal Band Roof Permit


30% to 50% usage avoiding the need to cut around defects found in other natural-based materials.

**In-House Processing:** Lamboo® utilizes commercial grade processing equipment which provides the highest level of fabrication and finishing capacities to meet and exceed our customer's expectations.

**Fire Rating:** Class A fire-rated products for exterior applications




VERTICAL HAZEL\*  
*PRE-FINISHED*



VERTICAL GOLDEN HONEY\*  
*PRE-FINISHED*

**LAMBOO® ELEMENTS™ - UNFINISHED MATERIAL** <<


If you are interested in purchasing unfinished Lamboo® Elements™ products, please note that all materials must be finished on-site or prior to installation. All Lamboo® products that are installed without finish will void any warranty provided by Lamboo®. If you are in need of a finish recommendation, please contact Lamboo® today.



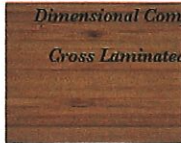
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*Dimensional Components* ○


*Cross Laminated Panels* ●



VERTICAL DEEP AMBER  
*PRE-FINISHED*




VERTICAL FAWN  
*PRE-FINISHED*



VERTICAL OXFORD BROWN  
*PRE-FINISHED*

Lamboo® Elements™ Nominal 1x6 #VSPC-106-EXT

Exterior Grade Product



Thickness	Width	Length(s)	Profile	<i>Dimensional Components</i>
3/4"	5-1/2"	8', 12' or 16'	Square Edges (Standard) or Eased 4 Edges (E4E)	Request A Quote

*Top of Page* ○

*Dimensional Components* ●

*Cross Laminated Panels* ○

**Tech sheet for Bamboo material to be used for Horizontal Band**



David "Stan" Stanislawski  
Corey Stanislawski  
General Contractors

May 9, 2019

Estimate

Bob & CJ Mueller  
8530 N Fielding Rd  
Bayside, WI 53217  
Email: [bj@stansenremodeling.com](mailto:bj@stansenremodeling.com)  
Phone: 262-352-2379

Front Overhang:

- 1) Remove necessary siding and dispose of
- 2) Supply and install the necessary rough lumber per plan
- 3) Install rubber roofing and all the necessary flashing
- 4) Supply and install all the necessary electrical per plan
- 5) Install owner supplied siding in all the area that were discussed
- 6) Caulk all necessary areas and clean up during the process and upon completion

Total = \$5,000.000

Please let me know what you think or if you have any questions

A handwritten signature in black ink that reads "Stan". The signature is written in a cursive, flowing style.

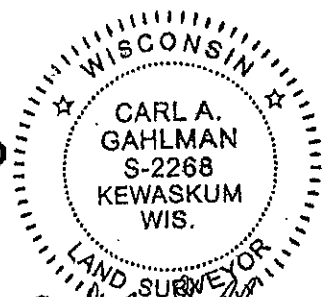
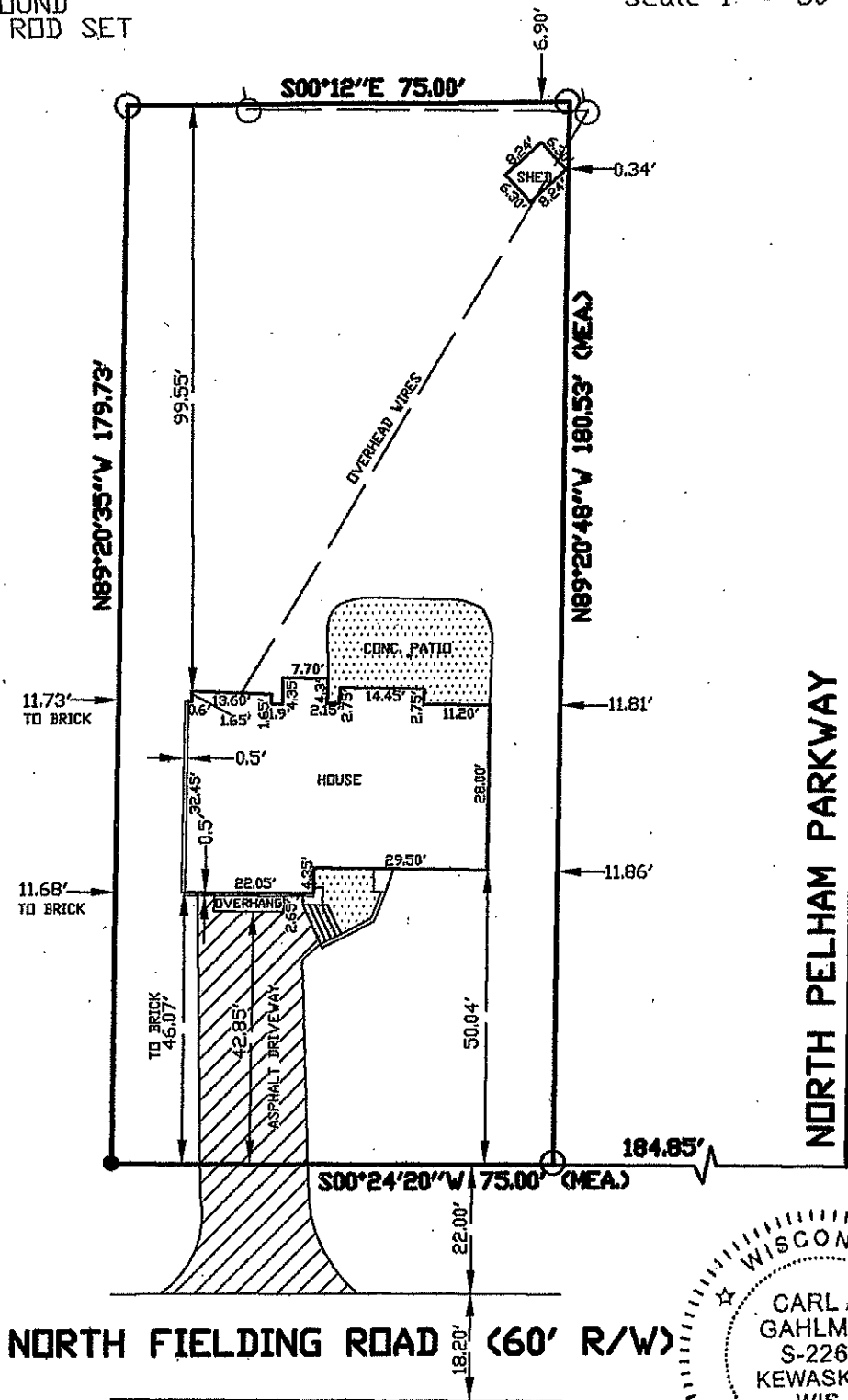
David Stanislawski

\*\*total may vary depending on the length of labor

**LEGEND**

- 1" LOT PIPES FOUND
- 3/4" X 18" IRON ROD SET
- POWER POLES

Scale 1" = 30'



*Carl A. Gahlman*  
 CARL A. GAHLMAN, P.L.S.

ROBERT & CAROL MUELLER  
 8530 NORTH FIELDING ROAD  
 BAYSIDE, WISCONSIN 53217-2465

THIS IS AN ORIGINAL PRINT ONLY IF SEAL IS IMPRINTED IN RED.  
 I have surveyed the above property, and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all structures thereon, fences, apparent easements, roadways, and visible encroachments.

This survey is made for the exclusive use of the present owner of the property; also those who purchase, mortgage, or guarantee the title thereto, within one year from the date hereof.

THIS INSTRUMENT WAS DRAFTED ON 07/19/2016 BY CARL A. GAHLMAN, P.L.S.  
 569 WASHINGTON COURT, KEWASKUM, WISCONSIN, 53040 (262) 894-3443 (CELL)



# Project Proposal

Date 3 | 2 | 2020

Property Address 9070 N BAYSIDE DRIVE

Zoning \_\_\_\_\_

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> <u>Accessory Structures</u> Generators<br><input type="checkbox"/> Additions/Remodel<br><input type="checkbox"/> Bluff Management<br><input type="checkbox"/> Commercial Signage<br><input type="checkbox"/> Decks/Patios<br><input type="checkbox"/> Fence<br><input type="checkbox"/> Fire Pits<br><input type="checkbox"/> Landscaping requiring Impervious Surface/Fill/Excavation Permit | <input type="checkbox"/> New Construction<br><input type="checkbox"/> Play Structures<br><input type="checkbox"/> Recreational Facilities/Courts<br><input type="checkbox"/> Roofs<br><input type="checkbox"/> Solar Panels/Skylights<br><input type="checkbox"/> Swimming Pools<br><input type="checkbox"/> Windows/Doors<br><input type="checkbox"/> Other |
|---|--|

Proposed project details (type of work, size, materials, etc.):

Garden Shed, concrete pad, wood construction combination board + batten + cedar shingles siding to match home

\*\*\*\*\* For Office Use Only \*\*\*\*\*

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Color photographs showing project location, elevations and surrounding views
<input type="checkbox"/>	<input type="checkbox"/>	Two (2) complete sets of building plans (including elevations and grading)
<input type="checkbox"/>	<input type="checkbox"/>	Survey
<input type="checkbox"/>	<input type="checkbox"/>	Samples or brochures showing materials, colors and designs
<input type="checkbox"/>	<input type="checkbox"/>	Application Fee
<input type="checkbox"/>	<input type="checkbox"/>	ARC Agenda Date:
<input type="checkbox"/>	<input type="checkbox"/>	Building Permit
<input type="checkbox"/>	<input type="checkbox"/>	Fill Permit
<input type="checkbox"/>	<input type="checkbox"/>	Impervious Surface Permit
<input type="checkbox"/>	<input type="checkbox"/>	Plan Commission/Conditional Use Permit
<input type="checkbox"/>	<input type="checkbox"/>	Right-of-Way/Excavation Permit
<input type="checkbox"/>	<input type="checkbox"/>	Variance Required



4/16/2020

Attention:  
Village of Bayside, WI  
Architecture Review Committee

<p>PROJECT/SITE OWNER: Tim Wayman</p> <p>PROJECT ADDRESS: 9070 N Bayside Drive</p>	<p>PROJECT SUMMARY: Backyard garden shed with concrete pad. 2x4 construction, 10'4" x 14'6" with 12'10" height at the peak.</p>
--	---

### **VILLAGE CODE REVIEW**

Reviewer believes this project complies with the following Village Code sections:

104-2(a)(2) Architectural Review Committee: *Construction and renovation should be made so that exterior architectural appearance shall be substantially consistent with structures already constructed in the immediate neighborhood, or with the character of the applicable district.*

### **ACCESSORY STRUCTURE SETBACK REQUIREMENTS:**

Exact dimensions are not provided for the location of the new shed. Village code section 125-91 - "C" residence district regulations requires that accessory structures be located a minimum of 10ft from both rear yard and side yard property lines. Owner is to verify 10' setbacks.

**NEW ACCESSORY STRUCTURE COMPLIES**

**Dan Povolo, PE**  
Plans Examiner  
608-208-2516  
dpovolo@safebuilt.com

1-262-346-4577  
SAFEbuilt, Inc.

**WI UNIFORM PERMIT APPLICATION**  
hartfordinspections@safebuilt.com  
Inspections need to be called in by 4 pm for next business day inspections

PERMIT NO.  
TAXKEY#

**ISSUING MUNICIPALITY**  
OF BAYSIDE  
COUNTY: MILWAUKEE

**PROJECT LOCATION**  
(Building Address) 9070 N BAYSIDE DRIVE

**PROJECT DESCRIPTION**  
 COMMERCIAL  ONE & TWO FAMILY

Owner's Name Tim WAYMAN Mailing Address - Include City & Zip 9070 N BAYSIDE DR BAYSIDE 53217 Telephone - Include Area Code 414-991-4856

Construction Contractor (DC Lic No.) SELF Mailing Address - Include City & Zip \_\_\_\_\_ Telephone - Include Area Code \_\_\_\_\_

Dwelling Contractor Qualifier (DCQ Lic No.) SELF Dwelling Contractor Qualifier shall be an owner, CEO, COB, or employee of Dwelling Contractor Telephone - Include Area Code \_\_\_\_\_

Plumbing Contractor (Lic No.) N/A Mailing Address - Include City & Zip \_\_\_\_\_ Telephone - Include Area Code \_\_\_\_\_

Electrical Contractor (Lic No.) N/A Mailing Address - Include City & Zip \_\_\_\_\_ Telephone - Include Area Code \_\_\_\_\_

HVAC Contractor (Lic No.) N/A Mailing Address - Include City & Zip \_\_\_\_\_ Telephone - Include Area Code \_\_\_\_\_

**PROJECT INFORMATION**

Subdivision Name BAYSIDE Lot No. 9 Block No. 9

Zoning District C Lot Area 18.400 Sq. Ft. N.S.E.W. Front 43 Ft. Rear 104 Ft. Left 15-20 Ft. Right 18 Ft.

<b>1a. PROJECT</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Raze <input type="checkbox"/> Alteration <input type="checkbox"/> Repair <input type="checkbox"/> Move <input type="checkbox"/> Other <u>SHED</u>	<b>3. TYPE</b> <input type="checkbox"/> Single Family <input type="checkbox"/> Two Family <input type="checkbox"/> Multi <input type="checkbox"/> Commercial	<b>6. STORIES</b> <input checked="" type="checkbox"/> 1-Story <input type="checkbox"/> 2-Story <input type="checkbox"/> Other	<b>9. HVAC EQUIPMENT</b> <input type="checkbox"/> Forced Air Furnace <input type="checkbox"/> Radiant Baseboard or Panel <input type="checkbox"/> Heat Pump <input type="checkbox"/> Boiler <input type="checkbox"/> Central Air Conditioning <input type="checkbox"/> Other	<b>12. ENERGY SOURCE</b> Fuel Nat. Gas LP. Oil Elec. Solid Solar Space Htg <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Water Htg <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> * <input type="checkbox"/> Dwelling unit will have 3 kilowatt or more installed electric space heater equipment capacity.
<b>1b. GARAGE/SHED</b> <input type="checkbox"/> Attached <input checked="" type="checkbox"/> Detached	<b>4. CONST. TYPE</b> <input checked="" type="checkbox"/> Site Constructed <input type="checkbox"/> Mfd. UDC <input type="checkbox"/> Mfd. HUD	<b>7. FOUNDATION</b> <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Masonry <input type="checkbox"/> Treated Wood <input type="checkbox"/> ICF <input type="checkbox"/> Other	<b>10. PLUMBING</b> Sewer <input type="checkbox"/> Municipal <input type="checkbox"/> Septic No.	<b>13. HEAT LOSS (Calculated)</b> Total <u>X</u> BTU/HR
<b>2. AREA</b> Basement _____ Sq. Ft. Living Area _____ Sq. Ft. Garage _____ Sq. Ft. Other <u>150</u> Sq. Ft. TOTAL _____	<b>5. ELECTRICAL</b> Entrance Panel Size: _____ amp Service: <input type="checkbox"/> New <input type="checkbox"/> Rewire Phase: _____ Volts <input type="checkbox"/> Underground <input type="checkbox"/> Overhead Power Company: _____	<b>8. USE</b> <input type="checkbox"/> Seasonal <input type="checkbox"/> Permanent <input type="checkbox"/> Other	<b>11. WATER</b> <input type="checkbox"/> Municipal Utility <input type="checkbox"/> Private On-Site Well	<b>14. ESTIMATED COST</b> \$ <u>2500<sup>00</sup> / 3.000<sup>00</sup></u>

I understand that I am subject to all applicable codes, laws, statutes and ordinances, including those described on the Notice to Permit Applicants form; am subject to any conditions of this permit; understand that the issuance of this permit creates no legal liability, express or implied, on the state or municipality; and certify that all the above information is accurate. If one acre or more of soil will be disturbed, I understand that this project is subject to ch. NR 161 regarding additional erosion control and stormwater management and the owner shall sign the statement on the Notice to Permit Applicants form. I expressly grant the building inspector, or the inspector's authorized agent, permission to enter the premises for which this permit is sought at all reasonable hours and for any proper purpose to inspect the work which is being done.

I vouch that I am or will be an owner-occupant of this dwelling for which I am applying for an erosion control or construction permit without a Dwelling Contractor Certification and have read the cautionary statement regarding contractor responsibility on the Notice to Permit Applicants form.

APPLICANT (PRINT): TIM WAYMAN Tim Wayman 3/2/2020  
SAFEbuilt, Inc.

**INSPECTIONS NEEDED** Building  Footing  Foundation  Rough  Insulation  Bsmt. Fl.  Final  
Electric  Rough  Service  Final Plumbing  Rough  Underfloor  Final HVAC  Rough  Final

<b>FEE:</b> Building Fee <u>125</u> Zoning Fee _____ WI Seal _____ Electric Fee _____ Plumbing Fee _____ HVAC Fee _____ Adm. Fee _____ Other _____ Total <u>125</u>	<b>PERMIT(S) ISSUED</b> Bldg. # At top of form _____ Zoning # _____ Elec. # _____ Plmb. # _____ HVAC # _____	<b>SEAL NO.</b> _____ <b>Municipality No.</b> _____	<b>RECEIPT</b> CK# _____ Amount \$ _____ Date <u>3/3/2020</u> From _____ Rec By. <u>LH</u>	<b>PERMIT EXPIRATION:</b> Permit expires two years from date issued unless municipal ordinance is more restrictive.	<b>PERMIT ISSUED BY MUNICIPAL AGENT:</b> Name _____ Date _____ Certification No. _____
--	---	--	---	--	---

### Scope of Work

Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

Item	Cost
Concrete	\$ 400 <sup>00</sup>
Rough + Finish Materials	\$ 1300 <sup>00</sup>
Windows/ Doors	\$ 800 <sup>00</sup>

Total Cost \$ 2500<sup>00</sup>

Signature Tom Wajman

Date 3/2/2020

### Requested Changes at time of work

Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

Item	Cost

Total Cost \_\_\_\_\_

Signature \_\_\_\_\_

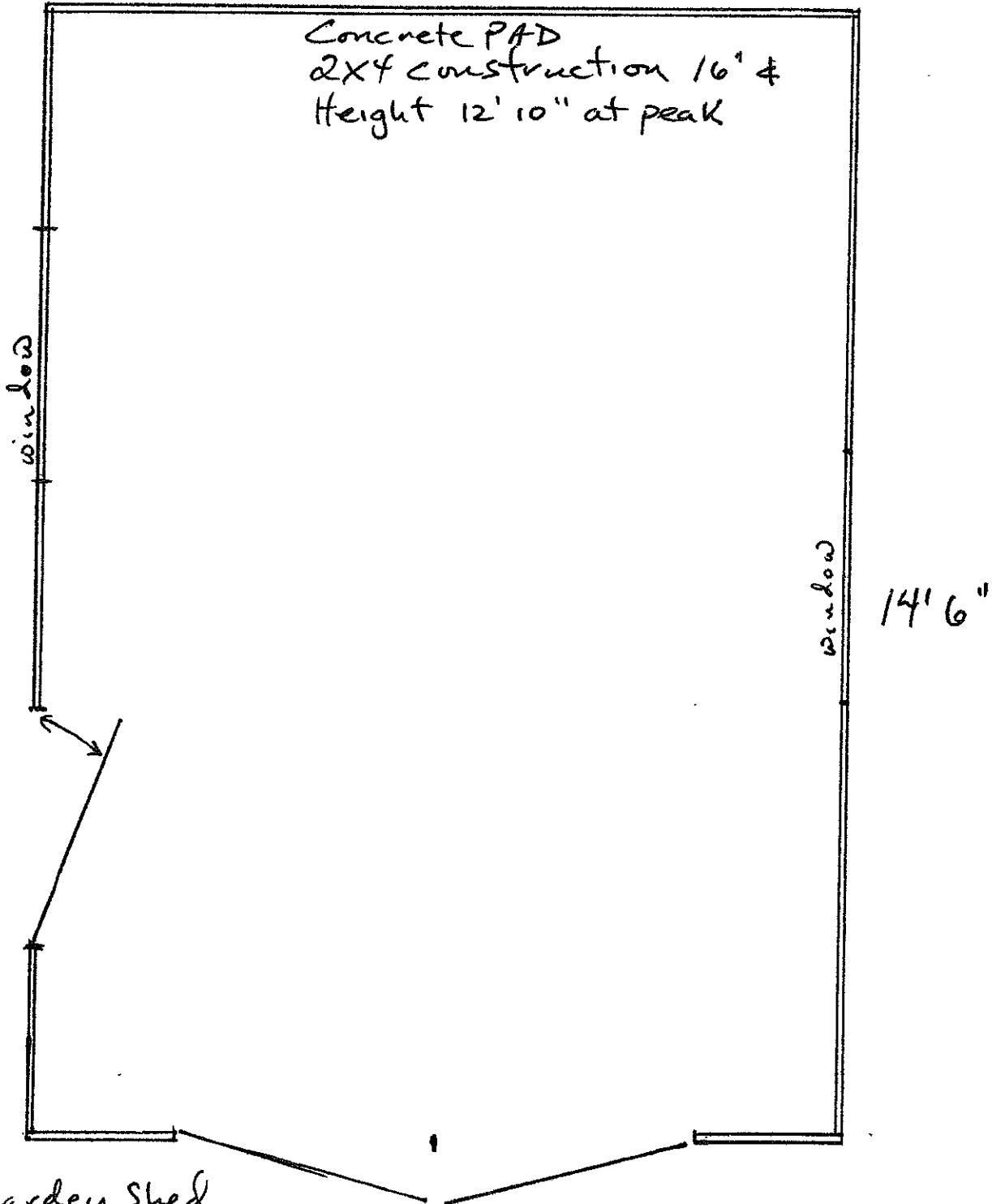
Date \_\_\_\_\_

3/2020

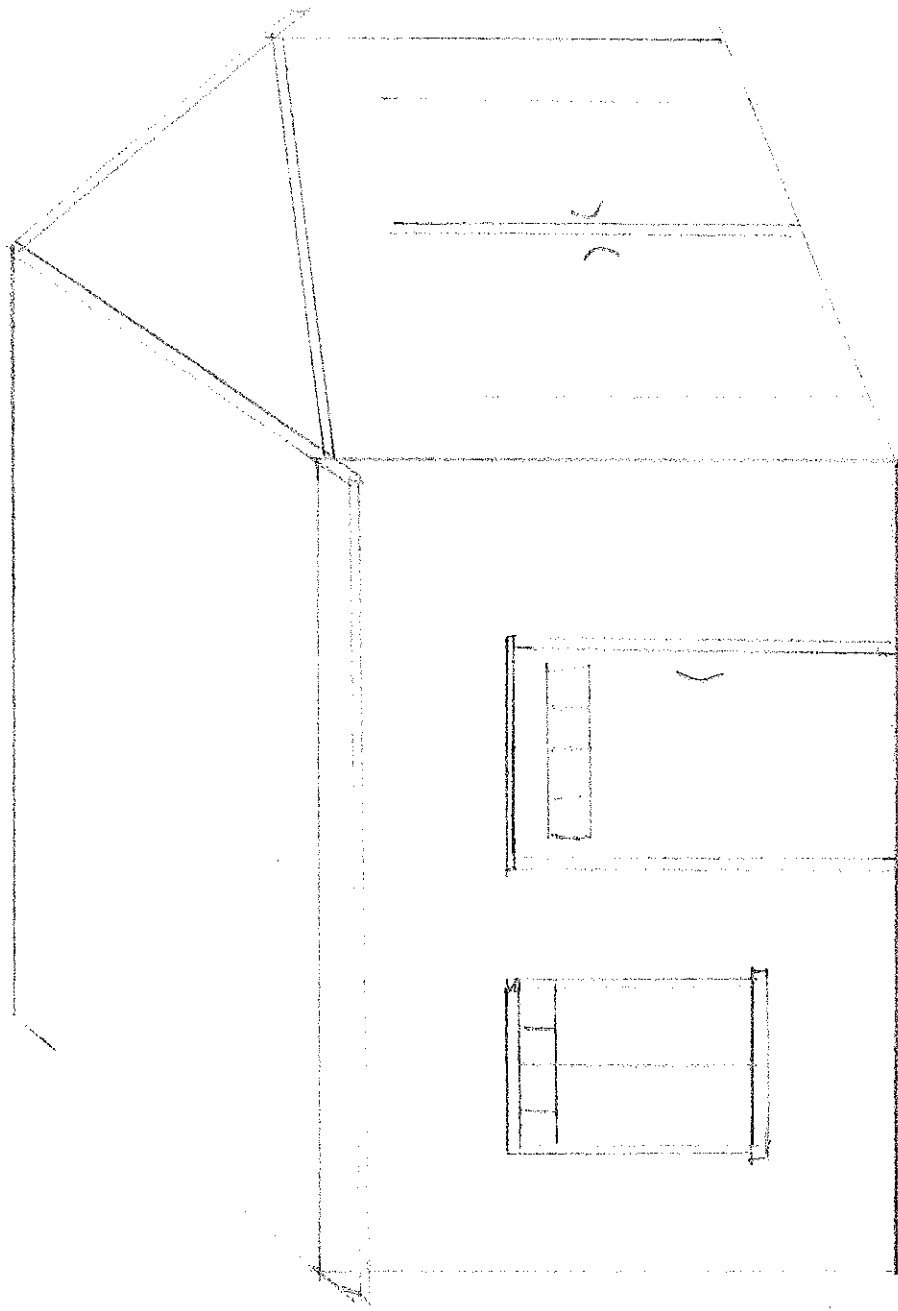
East

10' 4"

Concrete PAD  
2x4 construction 16' &  
Height 12' 10" at peak

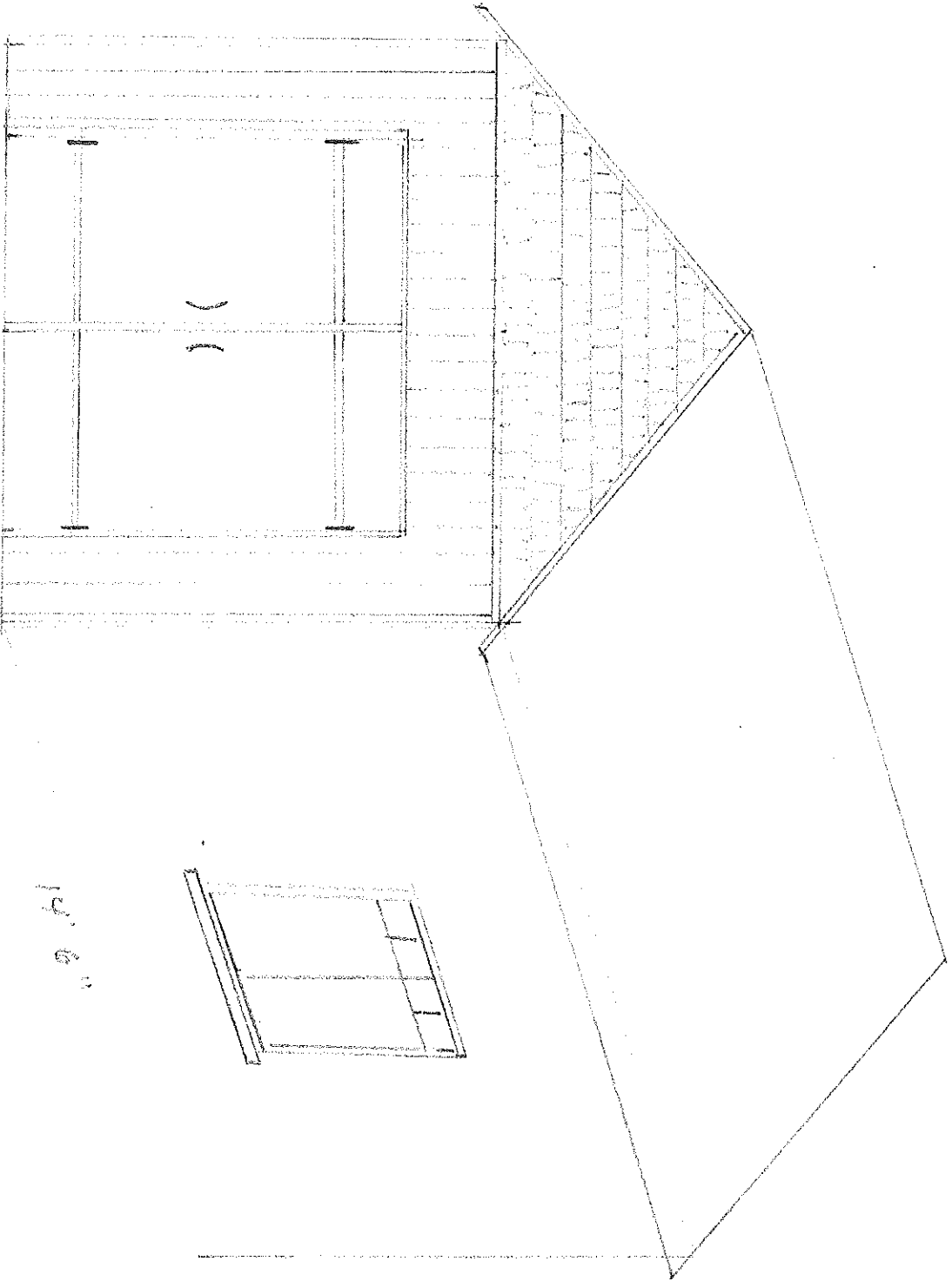


Garden Shed  
Rear yard 9070 N BAYSIDE DRIVE  
Estimated cost \$2500<sup>00</sup>



Shed Rear yard  
9070 N BAYSIDE DRIVE

North + West



Shed Rear yard  
 9070 N BAYSIDE Drive

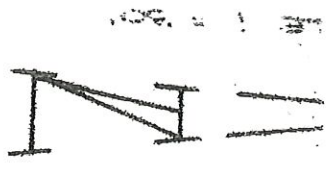
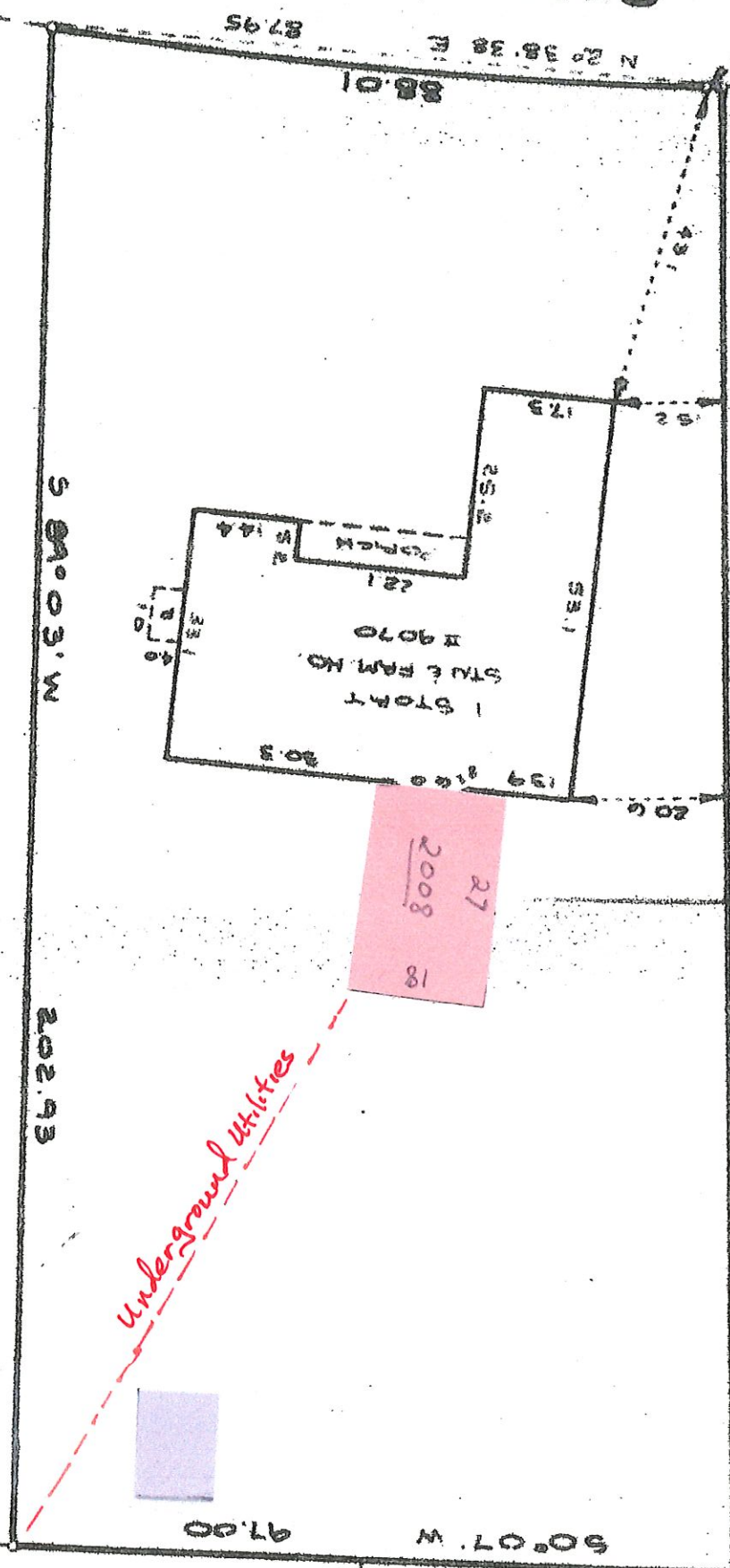
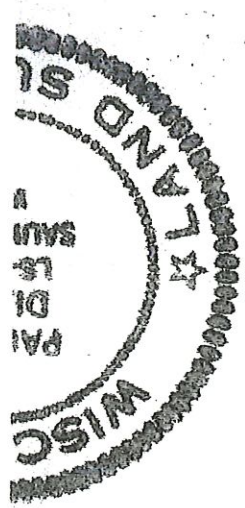
West + South

3/2020

Sides, Back + Gable  
 Cedar Siding  
 match Home  
 Front-Vertical  
 board + batten

RES FROM PIPE

BAY SIDE DR.

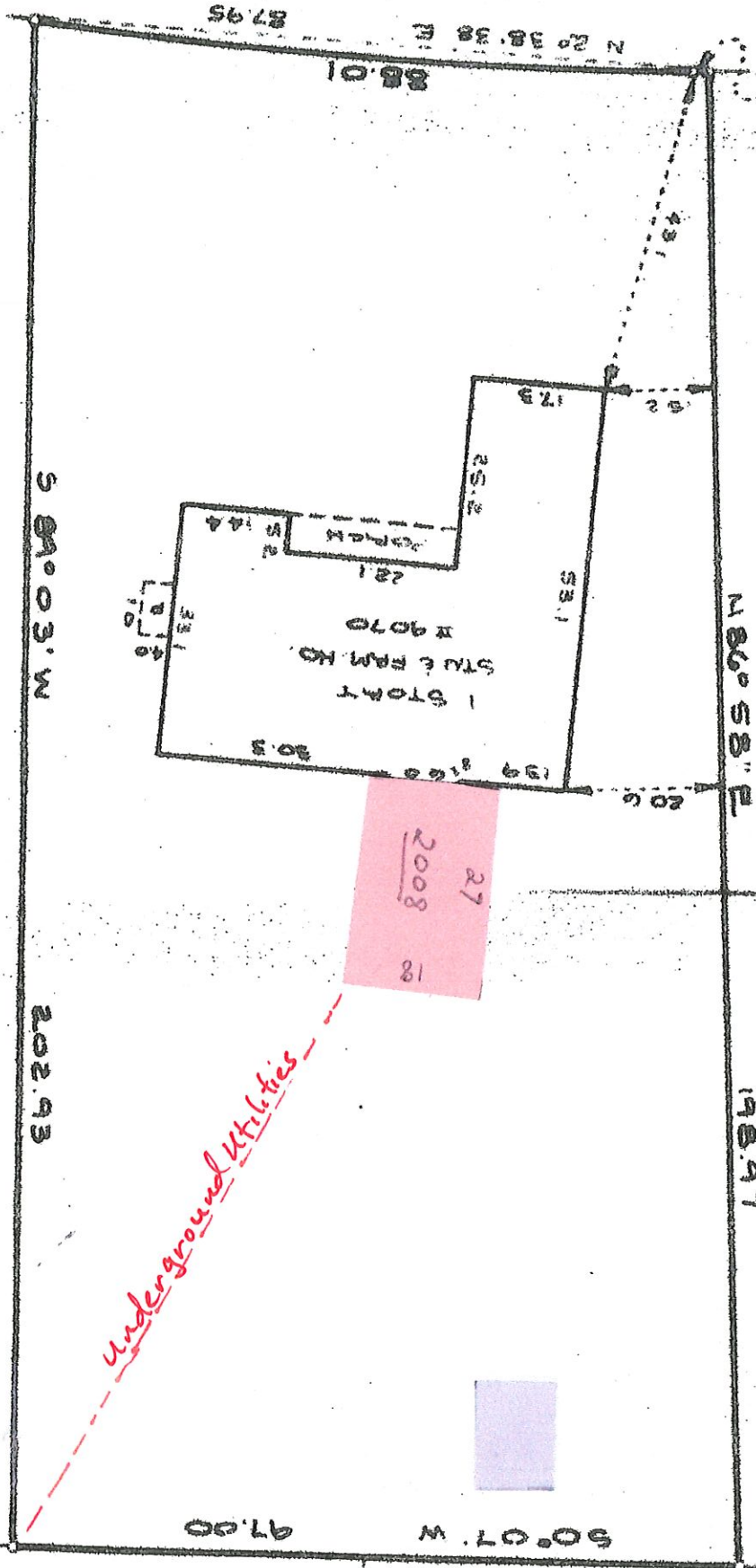
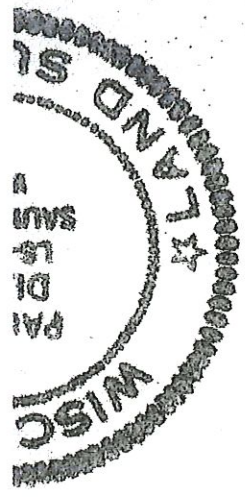


DEPT. OF NATURAL RESOURCES  
STATE OF WISCONSIN  
LAND SURVEY

Location  
Option #1



# BAYSIDE DR.



10' 0" 10' 0" 10' 0" 10' 0"  
 10' 0" 10' 0" 10' 0" 10' 0"  
 10' 0" 10' 0" 10' 0" 10' 0"  
 10' 0" 10' 0" 10' 0" 10' 0"  
 10' 0" 10' 0" 10' 0" 10' 0"

Location Option #2

50.07' W 97.00

N 86° 58' E

N 0° 31' W 2.00

N 2° 38.38' E 88.01

87.95

5 84.03' W

202.93

198.97





Cedar Shingles  
Sides, Back +  
Gables

AT THE RANCH

PULL WEBS

9070



Similar Board + Batten  
Front Face





# Project Proposal

Date 4/8/2020  
 Property Address 1150 E Standish Pl  
 Zoning 1-Residential

- |   |  |
|---|--|
| <input type="checkbox"/> Accessory Structures/Generators<br><input type="checkbox"/> Additions/Remodel<br><input type="checkbox"/> Bluff Management<br><input type="checkbox"/> Commercial Signage<br><input checked="" type="checkbox"/> <u>Decks/Patios</u><br><input type="checkbox"/> Fence<br><br><input type="checkbox"/> Fire Pits<br><br><input type="checkbox"/> Landscaping requiring Impervious Surface/Fill/Excavation Permit | <input type="checkbox"/> New Construction<br><input type="checkbox"/> Play Structures<br><input type="checkbox"/> Recreational Facilities/Courts<br><input type="checkbox"/> Roofs<br><input type="checkbox"/> Solar Panels/Skylights<br><input type="checkbox"/> Swimming Pools<br><input type="checkbox"/> Windows/Doors-change exceeds 25% of opening<br><br><input type="checkbox"/> Other |
|---|--|

Proposed project details (type of work, size, materials, etc.):

Deck replacement. Footprint will remain the same. Existing surface removed. Structure will be properly framed. Composite decking (Trex) to be installed.

\*\*\*\*\* For Office Use Only \*\*\*\*\*

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Color photographs showing project location, elevations and surrounding views
<input type="checkbox"/>	<input type="checkbox"/>	Two (2) complete sets of building plans (including elevations and grading)
<input type="checkbox"/>	<input type="checkbox"/>	Survey
<input type="checkbox"/>	<input type="checkbox"/>	Samples or brochures showing materials, colors and designs
<input type="checkbox"/>	<input type="checkbox"/>	Application Fee
<input type="checkbox"/>	<input type="checkbox"/>	Parcel Number
<input type="checkbox"/>	<input type="checkbox"/>	ARC Agenda Date:
<input type="checkbox"/>	<input type="checkbox"/>	Building Permit
<input type="checkbox"/>	<input type="checkbox"/>	Fill Permit
<input type="checkbox"/>	<input type="checkbox"/>	Impervious Surface Permit
<input type="checkbox"/>	<input type="checkbox"/>	Plan Commission/Conditional Use Permit
<input type="checkbox"/>	<input type="checkbox"/>	Tax Key Number
<input type="checkbox"/>	<input type="checkbox"/>	Right-of-Way/Excavation Permit
<input type="checkbox"/>	<input type="checkbox"/>	Variance Required



4/9/2020

Attention:  
Village of Bayside, WI  
Architecture Review Committee

<p>PROJECT/SITE OWNER: Max &amp; Anneliese Dickman</p> <p>PROJECT ADDRESS: 1150 E Standish Place</p>	<p>PROJECT SUMMARY: Replace deck within the existing footprint. New composite deck (450 SF).</p>
--	--

**VILLAGE CODE REVIEW**

Reviewer believes this project complies with the following Village Code sections:

104-2(a)(2) Architectural Review Committee: *Construction and renovation should be made so that exterior architectural appearance shall be substantially consistent with structures already constructed in the immediate neighborhood, or with the character of the applicable district.*

**Homeowner should be aware of additional UDC requirements. Provide additional information to the building inspector as noted below:**

Deck guards/railing is to be provided on all open sides of the deck that is more than 24" above grade. Guards and posts are to meet the opening, attachment and other requirements provided in SPS 320 to 325 Appendix B Section 13.

**Dan Povolo, PE**  
Plans Examiner  
608-208-2516  
dpovolo@safebuilt.com



1-262-346-4577  
SAFEbuilt, Inc.

# WI UNIFORM PERMIT APPLICATION

hartfordinspections@safebuilt.com  
Inspections need to be called in by 4 pm for next business day inspections

PERMIT NO. \_\_\_\_\_  
TAXKEY# Parcel #: 0200105

**ISSUING MUNICIPALITY**

TOWN  VILLAGE  CITY  
OF Bayside  
COUNTY: Milwaukee

**PROJECT LOCATION**  
(Building Address) 1150 E Standish Pl. Bayside, WI 53217

**PROJECT DESCRIPTION**  
Deck construction

COMMERCIAL  ONE & TWO FAMILY

**Owner's Name** Max and Anneliese Dickman Mailing Address - Include City & Zip 1150 E Standish Pl. Bayside, WI 53217 Telephone - Include Area Code 414-247-1134

**Construction Contractor (DCLic No.)** Bogwardt Construction LLC DC# 4741 Mailing Address - Include City & Zip 11329 Silvercreek Cascade Rd Allert, WI 53001 Telephone - Include Area Code 920-994-4954

**Dwelling Contractor Qualifier (DCQ Lic No.)** Jan Bogwardt DCQ# 4743 Dwelling Contractor Qualifier shall be an owner, CEO, COB, or employee of Dwelling Contractor Telephone - Include Area Code 920-944-4954

**Plumbing Contractor (Lic No.)** N/A Mailing Address - Include City & Zip \_\_\_\_\_ Telephone - Include Area Code \_\_\_\_\_

**Electrical Contractor (Lic No.)** N/A Mailing Address - Include City & Zip \_\_\_\_\_ Telephone - Include Area Code \_\_\_\_\_

**HVAC Contractor (Lic No.)** N/A Mailing Address - Include City & Zip \_\_\_\_\_ Telephone - Include Area Code \_\_\_\_\_

**PROJECT INFORMATION**

Subdivision Name Breeze Terrace Lot No. 4 Block No. 3

Zoning District 2-Residential Lot Area 23,043 Sq. Ft. N.S.E.W. Setbacks Front existing Ft. Rear existing Ft. Left existing Ft. Right existing Ft.

<b>1a. PROJECT</b> <input type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Raze <input type="checkbox"/> Alteration <input type="checkbox"/> Repair <input type="checkbox"/> Move <input checked="" type="checkbox"/> Other <u>deck replacement</u>	<b>3. TYPE</b> <input checked="" type="checkbox"/> Single Family <input type="checkbox"/> Two Family <input type="checkbox"/> Multi <input type="checkbox"/> Commercial	<b>6. STORIES</b> <input type="checkbox"/> 1-Story <input type="checkbox"/> 2-Story <input checked="" type="checkbox"/> Other <u>1.5 story</u>	<b>9. HVAC EQUIPMENT</b> <input type="checkbox"/> Forced Air Furnace <input checked="" type="checkbox"/> Radiant Baseboard or Panel <input checked="" type="checkbox"/> Heat Pump <input checked="" type="checkbox"/> Boiler <input checked="" type="checkbox"/> Central Air Conditioning <input type="checkbox"/> Other <u>N/A</u>																					
<b>1b. GARAGE</b> <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached	<b>4. CONST. TYPE</b> <input checked="" type="checkbox"/> Site Constructed <input type="checkbox"/> Mfd. UDC <input type="checkbox"/> Mfd. HUD	<b>7. FOUNDATION</b> <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Masonry <input type="checkbox"/> Treated Wood <input type="checkbox"/> ICF <input type="checkbox"/> Other _____	<b>10. PLUMBING</b> Sewer <input checked="" type="checkbox"/> Municipal <input type="checkbox"/> Septic No. _____																					
<b>2. AREA</b> Basement <u>300</u> Sq. Ft. Living Area <u>2000</u> Sq. Ft. Garage <u>450</u> Sq. Ft. Other <u>N/A</u> Sq. Ft. TOTAL <u>23043</u>	<b>5. ELECTRICAL</b> Entrance Panel Size: _____ amp Service: <input type="checkbox"/> New <input type="checkbox"/> Rewire _____ Phase _____ Volts <input type="checkbox"/> Underground <input type="checkbox"/> Overhead Power Company: <u>WE-Encoray</u>	<b>8. USE</b> <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Other _____	<b>11. WATER</b> <input checked="" type="checkbox"/> Municipal Utility <input type="checkbox"/> Private On-Site Well																					
<b>12. ENERGY SOURCE</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Fuel</th> <th>Nat. Gas</th> <th>L.P.</th> <th>Oil</th> <th>Elec. *</th> <th>Solid</th> <th>Solar</th> </tr> </thead> <tbody> <tr> <td>Space Htg</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Water Htg</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <p>* <input type="checkbox"/> Dwelling unit will have 3 kilowatt or more installed electric space heater equipment capacity.</p>				Fuel	Nat. Gas	L.P.	Oil	Elec. *	Solid	Solar	Space Htg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water Htg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuel	Nat. Gas	L.P.	Oil	Elec. *	Solid	Solar																		
Space Htg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		
Water Htg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		
<b>13. HEAT LOSS (Calculated)</b> Total _____ BTU//HR																								
<b>14. ESTIMATED COST</b> <u>\$ 13,000</u>																								

I understand that I: am subject to all applicable codes, laws, statutes and ordinances, including those described on the Notice to Permit Applicants form; am subject to any conditions of this permit; understand that the issuance of this permit creates no legal liability, express or implied, on the state or municipality; and certify that all the above information is accurate. If one acre or more of soil will be disturbed, I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and the owner shall sign the statement on the Notice to Permit Applicants form. I expressly grant the building inspector, or the inspector's authorized agent, permission to enter the premises for which this permit is sought at all reasonable hours and for any proper purpose to inspect the work which is being done.

I vouch that I am or will be an owner-occupant of this dwelling for which I am applying for an erosion control or construction permit without a Dwelling Contractor Certification and have read the cautionary statement regarding contractor responsibility on the Notice to Permit Applicants form.

**APPLICANT (PRINT):** Max Dickman/Anneliese Dickman

SAFEbuilt, Inc.

**INSPECTIONS NEEDED** Building  Footing  Foundation  Rough  Insulation  Bsmt. Fl.  Final  
 Electric  Rough  Service  Final **Plumbing**  Rough  Underfloor  Final **HVAC**  Rough  Final

<b>FEES:</b>	<b>PERMIT(S) ISSUED</b>	SEAL NO. _____	Municipality No. _____
Building Fee _____	Bldg. # At top of form _____	<b>RECEIPT</b>	<b>PERMIT EXPIRATION:</b>
Zoning Fee _____	Zoning # _____		
WI Seal _____	Elec. # _____	CK # _____	Permit expires two years from date issued unless municipal ordinance is more restrictive.
Electric Fee _____	Plmb. # _____	Amount \$ _____	
Plumbing Fee _____	HVAC # _____	Date _____	
HVAC Fee _____		From _____	
Adm. Fee _____		Rec By. _____	<b>PERMIT ISSUED BY MUNICIPAL AGENT:</b>
Other _____			
Total _____			Name _____
			Date _____
			Certification No. _____

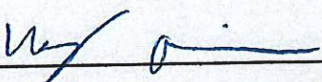


### Scope of Work

Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

Item	Cost
Remove existing deck	entire project: \$13,250
Dispose of all old materials	
Reconfigure underside support to account for existing damage and additional support for composite decking.	
Install composite decking	
Install railing on west edge.	

Total Cost \$13,250

Signature 

Date 4-6-2020

### Requested Changes at time of work

Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

Item	Cost

Total Cost \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_











# Shop Trex®

HOME / DECKING / TREX SELECT / PEBBLE GREY



4.6 ★★★★★  
Google  
Customer Reviews





12 inch Composite Deck Board Sample

Add to compare list

SKU: PGS90000

Free shipping

Price: \$5.00

QTY:

ADD TO CART

Overview

Specifications

### COLOR STORY

Pebble Grey is a light heather grey with an easy-to-maintain, wood-like grain pattern, making it the simple choice.

- The perfect pairing of price and minimal maintenance
- Made of affordable high-performance composite; won't rot, warp or splinter
- Protective outer shell for durability; resists fading and staining
- Quality low-maintenance material; cleans easily with soap and water
- Solid profile for traditional lumber-like appearance \
- Made of 95% recycled materials, with a low carbon footprint
- Backed by 25-year Limited Residential and Fade & Stain warranties
- Available in grooved-edge boards for our hidden deck fasteners or square-edge for traditional installation
- Made in USA

### SPECIFICATIONS

1 INCH x 6 INCHES x 12 INCHES

Customers who bought this item also bought

4.6 ★★★★★

Google

Customer Reviews





# Project Proposal

Date 2/29/2020

Property Address 8835 N. Temysan Dr

Zoning \_\_\_\_\_

- |  |  |
|--|--|
| <input type="checkbox"/> Accessory Structures/Generators<br><input type="checkbox"/> Additions/Remodel<br><input type="checkbox"/> Bluff Management<br><input type="checkbox"/> Commercial Signage<br><input type="checkbox"/> Decks/Patios<br><input checked="" type="checkbox"/> Fence<br><input type="checkbox"/> Fire Pits<br><input type="checkbox"/> Landscaping requiring Impervious Surface/Fill/Excavation Permit | <input type="checkbox"/> New Construction<br><input type="checkbox"/> Play Structures<br><input type="checkbox"/> Recreational Facilities/Courts<br><input type="checkbox"/> Roofs<br><input type="checkbox"/> Solar Panels/Skylights<br><input type="checkbox"/> Swimming Pools<br><input type="checkbox"/> Windows/Doors-change exceeds 25% of opening<br><input type="checkbox"/> Other |
|--|--|

Proposed project details (type of work, size, materials, etc.):

wood picket 6' privacy fence on south side on backyard - 100'  
wood picket 3.5' open picket fence on west & north side backyard

\*\*\*\*\* For Office Use Only \*\*\*\*\*

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Color photographs showing project location, elevations and surrounding views
<input type="checkbox"/>	<input type="checkbox"/>	Two (2) complete sets of building plans (including elevations and grading)
<input type="checkbox"/>	<input type="checkbox"/>	Survey
<input type="checkbox"/>	<input type="checkbox"/>	Samples or brochures showing materials, colors and designs
<input type="checkbox"/>	<input type="checkbox"/>	Application Fee
<input type="checkbox"/>	<input type="checkbox"/>	Parcel Number
<input type="checkbox"/>	<input type="checkbox"/>	ARC Agenda Date:
<input type="checkbox"/>	<input type="checkbox"/>	Building Permit
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fill Permit
<input type="checkbox"/>	<input type="checkbox"/>	Impervious Surface Permit
<input type="checkbox"/>	<input type="checkbox"/>	Plan Commission/Conditional Use Permit
<input type="checkbox"/>	<input type="checkbox"/>	Tax Key Number
<input type="checkbox"/>	<input type="checkbox"/>	Right-of-Way/Excavation Permit
<input type="checkbox"/>	<input type="checkbox"/>	Variance Required

4/19/2020

Attention:  
Village of Bayside, WI  
Architecture Review Committee

<p>PROJECT/SITE OWNER: Donna Miller</p> <p>PROJECT ADDRESS: 8835 N Tennyson</p>	<p>PROJECT SUMMARY: 6 ft wood privacy fence south backyard (100 ft - replacing existing privacy fence). 3.5 ft wood picket fence west and north side of backyard.</p>
---	---

## **VILLAGE CODE REVIEW**

### **LENGTH**

Per Village Code Sec. 104-125 (i) – Fence Type: *No solid fence may be constructed with a total horizontal linear length in excess of fifteen percent of the total linear feet of the perimeter of the property except as screening along an adjacent railroad, state highway, interstate highway, county highway, or commercial parking lot property.*

Property total perimeter length per recorded dimensions on Plat of Survey:  
200.29'(north) + 121.06'(east) + 213.43'(south) + 120'(west) = 654.78' total

Proposed solid fence length = 98'  
Allowable solid fence length = 98.21' (15% of 510.26')

### **PROPOSED LENGTH COMPLIES**

### **TYPE**

Picket fence is to have at least 25 percent open design  
Per Village Code Sec. 104-125 (i) – Fence Type: *All other permitted fences (picket fence) shall be constructed with at least 25 percent open design.*

### **FENCE TYPE IS TO COMPLY**

### **MATERIAL / FINISH**

Per Village Code Sec. 104-125 (i) – Fence Type: *Wood fences shall be unfinished or stained or oiled and allowed to weather naturally to help them blend into the landscape.*

Proposed fence is not to be painted and have natural finish.

### **PROPOSED MATERIAL / FINISH COMPLIES**

### **HEIGHT**

Per Village Code Sec. 104-125 (k) – Fence Height: *Fences constructed behind the rear elevation of the home shall not exceed six feet in height except when adjacent to an active railroad property, state or county highway, or commercial parking lot property, in which case it shall not exceed eight feet. Fences constructed within the side yards of a home but behind the forward most point of the adjacent structures shall not exceed six feet in height.*

Proposed 6ft fence is in the back yard of house, behind the forward most point of the house.

### **PROPOSED HEIGHT COMPLIES**

## **FOOTINGS**

Per Village Code Sec. 104-125 (m) –Footings: *All new fences are required to have a minimum of four-foot footings. Fence replacement or repair projects of existing fences are not required to incorporate footings unless 50 percent or more of the fence is being replaced or repaired.*

## **FOOTING COMPLIES**

**Dan Povolo, PE**

Plans Examiner

608-208-2516

[dpovolo@safebuilt.com](mailto:dpovolo@safebuilt.com)

## Fence Project

Donna Miller  
8835 N Tennyson Drive

### Proposal Clarifications

1. Length
  - a. Proposed length is 98 feet. Along the south side of backyard
2. Type
  - a. Pressure-treated wood with cedar-toned finish
  - b. Design



3. Footings
  - a. Four-foot footings will be used



Miller 8835  
N Tennyson

# Southwest view from back door

↓ 1136 E Brown Deer.



FENCE →

South view from back door



← FENCE







### Scope of Work

Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

Item	Cost
13 6x8' posts <del>\$40</del> = \$20	≈ \$700
18 posts x \$14 = 196	

Total Cost \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

### Requested Changes at time of work

Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

Item	Cost
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Total Cost \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

# Project Proposal

Date 3-20-2020  
 Property Address 1434 E Brown Deer Rd  
 Zoning A

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Accessory Structures/Generators<br><input type="checkbox"/> Additions/Remodel<br><input type="checkbox"/> Bluff Management<br><input type="checkbox"/> Commercial Signage<br><input type="checkbox"/> Decks/Patios<br><input checked="" type="checkbox"/> Fence<br><input type="checkbox"/> Fire Pits<br><input type="checkbox"/> Landscaping requiring Impervious Surface/Fill/Excavation Permit | <input type="checkbox"/> New Construction<br><input type="checkbox"/> Play Structures<br><input type="checkbox"/> Recreational Facilities/Courts<br><input type="checkbox"/> Roofs<br><input type="checkbox"/> Solar Panels/Skylights<br><input type="checkbox"/> Swimming Pools<br><input type="checkbox"/> Windows/Doors-change exceeds 25% of opening<br><input type="checkbox"/> Other |
|---|--|

Proposed project details (type of work, size, materials, etc.):

3' Fenced area at side yard, Pergola (Redwood) over Spa on Concrete pad/Redwood deck.

\*\*\*\*\* For Office Use Only \*\*\*\*\*

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Color photographs showing project location, elevations and surrounding views
<input type="checkbox"/>	<input type="checkbox"/>	Two (2) complete sets of building plans (including elevations and grading)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Survey
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Samples or brochures showing materials, colors and designs
<input type="checkbox"/>	<input type="checkbox"/>	Application Fee
<input type="checkbox"/>	<input type="checkbox"/>	Parcel Number
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ARC Agenda Date:
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Building Permit
<input type="checkbox"/>	<input type="checkbox"/>	Fill Permit
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Impervious Surface Permit
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Plan Commission/Conditional Use Permit
<input type="checkbox"/>	<input type="checkbox"/>	Tax Key Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Right-of-Way/Excavation Permit
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Variance Required



4/4/2019

Attention:  
Village of Bayside, WI  
Architecture Review Committee

<p>PROJECT/SITE OWNER: Kathryn Kamm</p> <p>PROJECT ADDRESS: 1434 E. Brown Deer Road</p>	<p>PROJECT SUMMARY: 3' Fenced area at side yard, pergola (redwood) over spa on concrete pad/redwood deck.</p>
---	---

## VILLAGE CODE REVIEW

### **MATERIAL/FINISH**

Village code section 104-125 (C): *Certain fences prohibited.* No barbed wire, wire mesh, above-ground electrically charged fence, or chainlink (cyclone) fences shall be allowed except in the case of chainlink fences to enclose tennis courts, sports fields, school yards, or municipal properties; and in the case of wire mesh fencing in the "G" nature center district. Photos provided indicate a wire mesh fence.

**PROPOSED MATERIAL/FINISH DOES NOT COMPLY**

### **FENCE HEIGHT**

Village code section 104-125 (K): Fences constructed within the front yard of a home shall not exceed three feet in height.

**PROPOSED HEIGHT COMPLIES**

### **FENCE LENGTH**

Village code section 104-125 (I): *Fence type.* Solid fences may be constructed with a total horizontal linear length not to exceed 15 percent of the total linear feet of the perimeter of the property except as screening along an adjacent railroad, state highway, interstate highway, county highway, or commercial parking lot property. A solid fence may have at least a 25 percent open design within the fence height. All other permitted fences shall be constructed with at least a 25 percent open design. When proposing a new fence adjacent to a property that already has a fence, the applicant should consider (and the architectural review committee may encourage) matching that fence to achieve a harmonious look. Wood fences shall be unfinished, stained, or oiled and allowed to weather naturally to help them blend into the landscape. Other finishes may be acceptable but are subject to review and approval. The side of the fence facing neighboring properties shall always be a finished and not structural side of the fence. If a fence style contains posts on one side and a more finished side on the other, the more finished side shall face the neighboring property.

**PROPOSED LENGTH COMPLIES**

### **Dan Povolo**

Plans Examiner  
608-208-2516  
dpovolo@safebuilt.com

# WI UNIFORM PERMIT APPLICATION

hartfordinspections@safebuilt.com

Inspections need to be called in by 4 pm for next business day inspections

PERMIT NO.

TAXKEY# 020-9982-000

## ISSUING MUNICIPALITY

TOWN  VILLAGE  CITY

OF Bayside

COUNTY: \_\_\_\_\_

## PROJECT LOCATION

(Building Address)

1434 E. Brown Deer Rd.

## PROJECT DESCRIPTION

COMMERCIAL  ONE & TWO FAMILY

Owner's Name: Kathryn Kamm Mailing Address - Include City & Zip: 1434 E. Brown Deer Rd. Telephone - Include Area Code: 414-617-5146

Construction Contractor (DCLC Lic. No.): Dwelling Renovations Mailing Address - Include City & Zip: 1545 Woodland Dr. Grouton, WI Telephone - Include Area Code: 262-302-0060

Dwelling Contractor Qualifier (DCC Lic. No.): \_\_\_\_\_ Dwelling Contractor Qualifier shall be an owner, CEO, COB, or employee of Dwelling Contractor Telephone - Include Area Code: \_\_\_\_\_

Plumbing Contractor (Lic. No.): N/A Mailing Address - Include City & Zip: \_\_\_\_\_ Telephone - Include Area Code: \_\_\_\_\_

Electrical Contractor (Lic. No.): N/A Mailing Address - Include City & Zip: \_\_\_\_\_ Telephone - Include Area Code: \_\_\_\_\_

HVAC Contractor (Lic. No.): N/A Mailing Address - Include City & Zip: \_\_\_\_\_ Telephone - Include Area Code: \_\_\_\_\_

## PROJECT INFORMATION

Subdivision Name: \_\_\_\_\_ Lot No.: \_\_\_\_\_ Block No.: \_\_\_\_\_

Zoning District	Lot Area	Sq. Ft.	N.S.E.W. Setbacks	Front	Rear	Left	Right
				FL	FL	FL	FL

<b>1a. PROJECT</b>	<b>3. TYPE</b>	<b>6. STORIES</b>	<b>9. HVAC EQUIPMENT</b>	<b>12. ENERGY SOURCE</b>																												
<input type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Raze <input type="checkbox"/> Alteration <input type="checkbox"/> Repair <input type="checkbox"/> Move <input checked="" type="checkbox"/> Other <u>Pergola + fence</u>	<input checked="" type="checkbox"/> Single Family <input type="checkbox"/> Two Family <input type="checkbox"/> Multi <input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> 1-Story <input type="checkbox"/> 2-Story <input type="checkbox"/> Other	<input type="checkbox"/> Forced Air Furnace <input type="checkbox"/> Radiant Baseboard or Panel <input type="checkbox"/> Heat Pump <input type="checkbox"/> Boiler <input type="checkbox"/> Central Air Conditioning <input type="checkbox"/> Other <u>N/A</u>	<table border="1"> <tr> <th>Fuel</th> <th>Nat. Gas</th> <th>LP.</th> <th>Oil</th> <th>Elec.</th> <th>Solid</th> <th>Solar</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Space Htg</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Water Htg</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	Fuel	Nat. Gas	LP.	Oil	Elec.	Solid	Solar								Space Htg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water Htg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuel	Nat. Gas	LP.	Oil	Elec.	Solid	Solar																										
Space Htg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																										
Water Htg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																										

<b>1b. GARAGE</b>	<b>4. CONST. TYPE</b>	<b>7. FOUNDATION</b>	<b>10. PLUMBING</b>
<input type="checkbox"/> Attached <input type="checkbox"/> Detached	<input checked="" type="checkbox"/> Site Constructed <input type="checkbox"/> Mfd. UDC <input type="checkbox"/> Mfd. HUD	<input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Masonry <input type="checkbox"/> Treated Wood <input type="checkbox"/> ICF <input type="checkbox"/> Other	<input type="checkbox"/> Municipal <input type="checkbox"/> Septic No. _____

<b>2. AREA</b>	<b>5. ELECTRICAL</b>	<b>8. USE</b>	<b>11. WATER</b>	<b>13. HEAT LOSS (Calculated)</b>	<b>14. ESTIMATED COST</b>
Basement _____ Sq. Ft. Living Area _____ Sq. Ft. Garage _____ Sq. Ft. Other _____ Sq. Ft. TOTAL <u>120 SF.</u>	Entrance Panel Size: _____ amp Service: <input type="checkbox"/> New <input type="checkbox"/> Rewire _____ Phase _____ Volts <input type="checkbox"/> Underground <input type="checkbox"/> Overhead Power Company: _____	<input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Other	<input type="checkbox"/> Municipal Utility <input type="checkbox"/> Private On-Site Well	Total _____ BTU/HR	<u>\$ 9,000 -</u>

I understand that I am subject to all applicable codes, laws, statutes and ordinances, including those described on the Notice to Permit Applicants form; am subject to any conditions of this permit; understand that the issuance of this permit creates no legal liability, express or implied, on the state or municipality; and certify that all the above information is accurate. If one acre or more of soil will be disturbed, I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and the owner shall sign the statement on the Notice to Permit Applicants form. I expressly grant the building inspector, or the inspector's authorized agent, permission to enter the premises for which this permit is sought at all reasonable hours and for any proper purpose to inspect the work which is being done.

I vouch that I am or will be an owner-occupant of this dwelling for which I am applying for an erosion control or construction permit without a Dwelling Contractor Certification and have read the cautionary statement regarding contractor responsibility on the Notice to Permit Applicants form.

APPLICANT (PRINT): ~~\_\_\_\_\_~~ Kathryn Kamm 03/20/2020

SAFEbuilt, Inc.

INSPECTIONS NEEDED Building  Footing  Foundation  Rough  Insulation  Bsmt. Fl.  Final

Electric  Rough  Service  Final Plumbing  Rough  Underfloor  Final HVAC  Rough  Final

<b>FEES</b>	<b>PERMIT(S) ISSUED</b>	<b>SEAL NO.</b> _____	<b>Municipality No.</b> _____
Building Fee <u>185</u> Zoning Fee _____ WI Seal _____ Electric Fee _____ Plumbing Fee _____ HVAC Fee _____ Adm. Fee _____ Other <u>APC</u> <u>60</u> Total _____	Bldg. # At top of form _____ Zoning # _____ Elec. # _____ Plmb. # _____ HVAC # _____	<b>RECEIPT</b> CK # _____ Amount \$ _____ Date _____ From _____ Rec. By _____	<b>PERMIT EXPIRATION:</b> Permit expires two years from date issued unless municipal ordinance is more restrictive.
<b>PERMIT ISSUED BY MUNICIPAL AGENT:</b>		Name _____	
		Date _____	
		Certification No. _____	

### Scope of Work

Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

Item	Cost
3' Cedar + black wire fence	\$10,000 -
Redwood Pergola	\$9,000 -

Total Cost \$19,000

Signature 

Date 20 - MAR. 2020

### Requested Changes at time of work

Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

Item	Cost

Total Cost \_\_\_\_\_

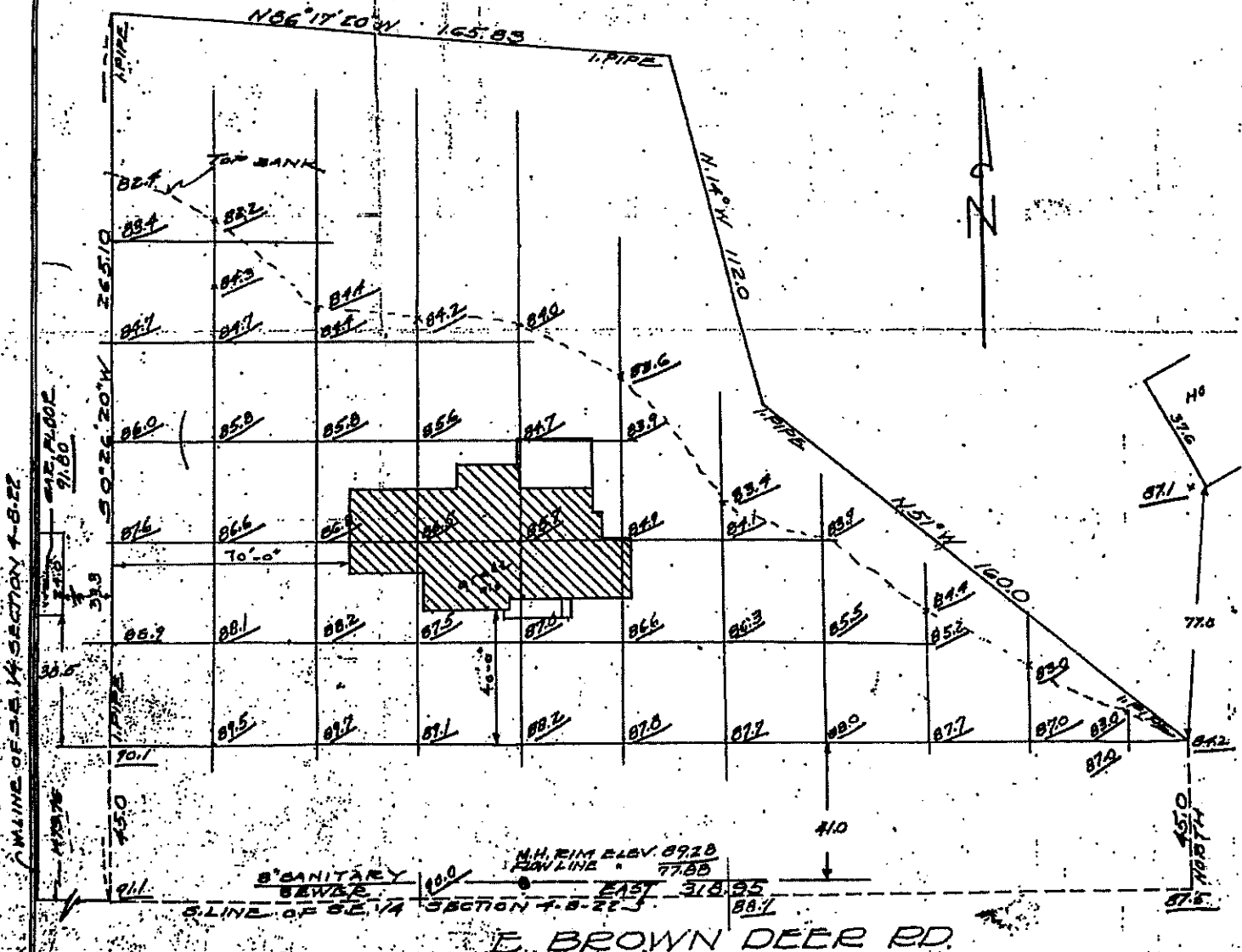
Plan No. 02 18-2-9

# PLAT OF SURVEY

OF PROPERTY OF Farm Schlay (for owner)

described as follows: That part of the NE 1/4 of Section 4, Town 8 North, Range 5 East in the Town of Milwaukee, Milwaukee County, Wisconsin, bounded and described as follows: to-wit: Commence at a point in the South line of said Section, 1472.76 ft. East of the Southwest corner of said Section, running thence East along the South line of said Section, 318.95 ft. to a point; thence North 45.0 ft. to a point; thence N. 51° W. 180.0 ft. to a point; thence N. 14° W. 112.0 ft. to a point; thence N. 86° 17' 20" W., 185.83 ft. to a point; thence S. 0° 25' 20" W. 285.10 ft. to the place of commencement. Reserving the South 45.0 ft. for public street purposes.

1166  
APPROVED  
VILLAGE OF BAYSIDE  
BUILDING COMMITTEE  
DATE: March 20 - 54



W. LINE OF S.E. 1/4 SECTION 4-B-22

SCALE 1" = 30 FT.

**H. C. WEBSTER & SON**  
 720 NORTH BURNS STREET MILWAUKEE, WIS.  
 DONALD W. WEBSTER  
 REGISTERED CIVIL ENGINEER  
 ASSOCIATE  
 ROY J. CHARMOCK

AFFIDAVIT  
 I hereby certify that I have made a survey on  
 ..... 195..... and that the location  
 of the..... Building on above described  
 property is correctly shown on the above plat.

STATE OF WISCONSIN  
 COUNTY OF MILWAUKEE  
 I, D. W. WEBSTER, Surveyor, do hereby certify that I  
 have made a survey of the above described property and that  
 the above plat is a true representation of said survey.  
 Milwaukee, Wis. Feb 16 1956  
D. Webster

FENCE

GARAGE MAN-DOOR

GATE WIDTH TO ACCOMMODATE RIDING MOWER

EXISTING BENCH

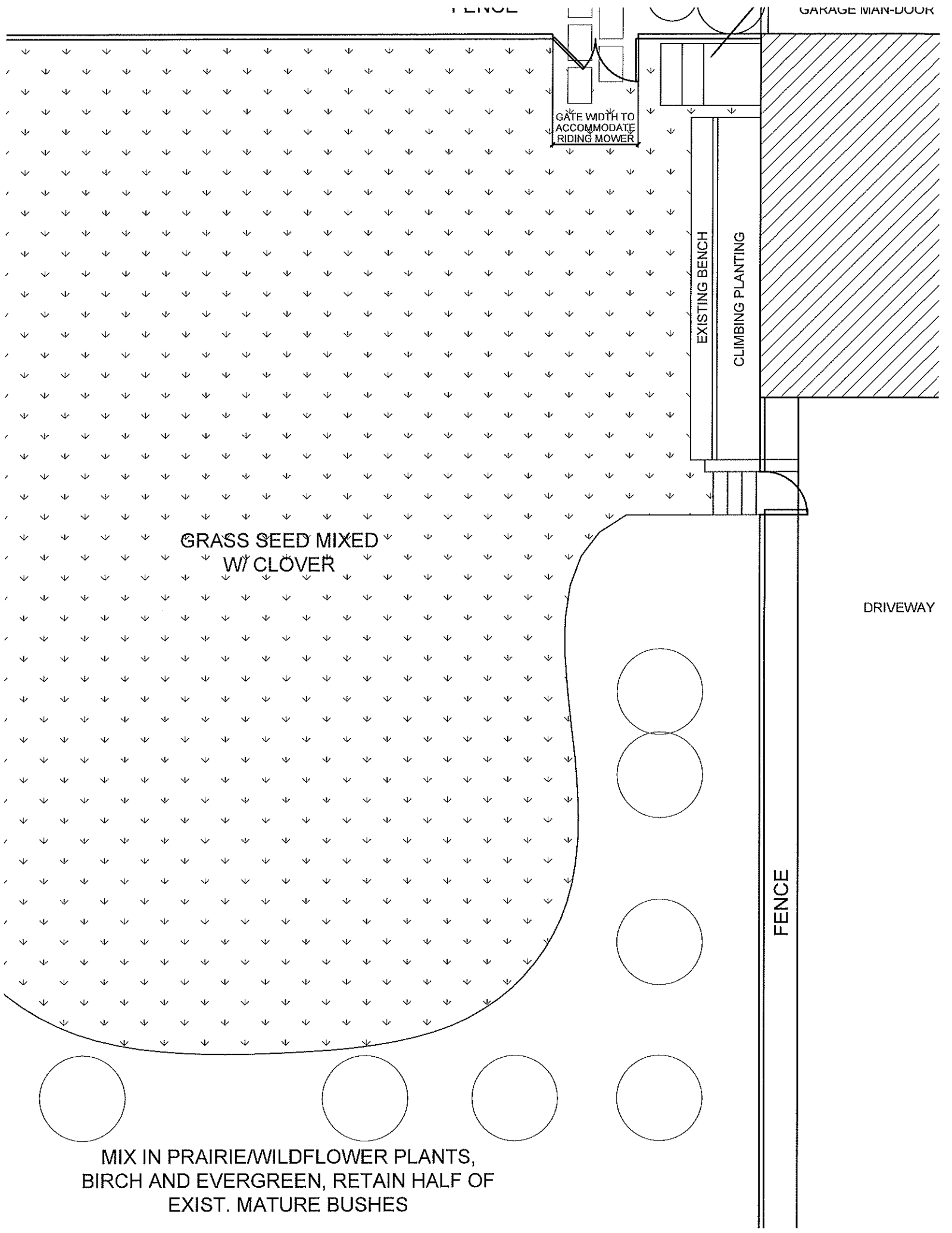
CLIMBING PLANTING

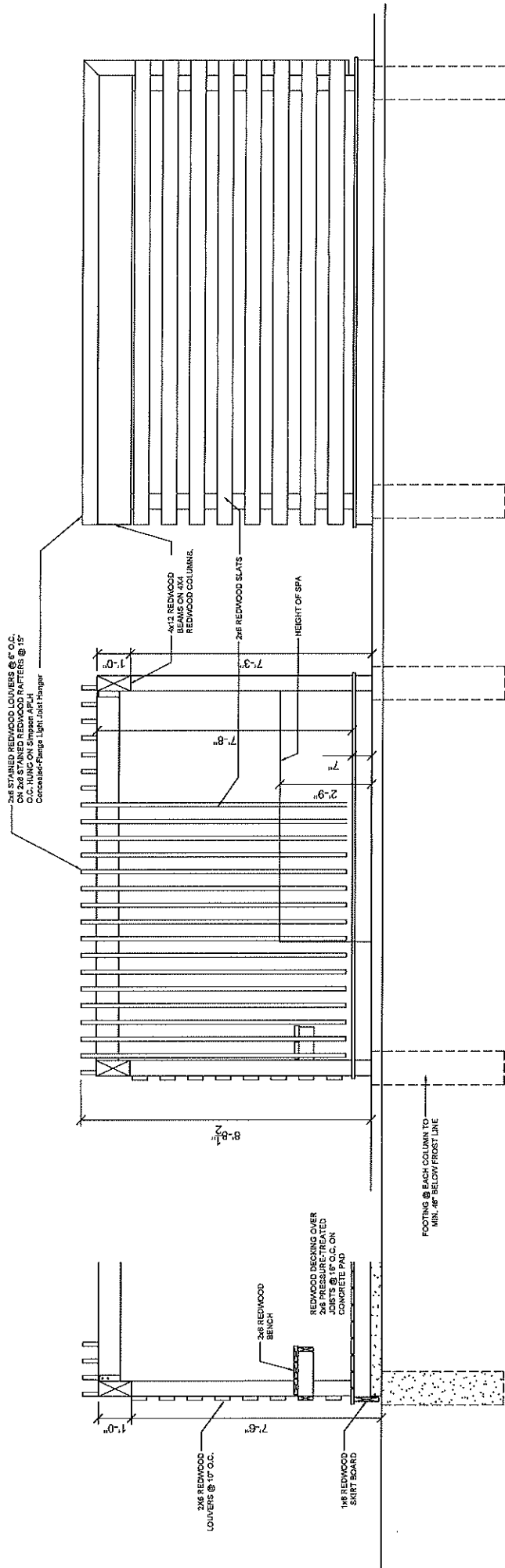
GRASS SEED MIXED W/ CLOVER

DRIVEWAY

FENCE

MIX IN PRAIRIE/WILDFLOWER PLANTS, BIRCH AND EVERGREEN, RETAIN HALF OF EXIST. MATURE BUSHES



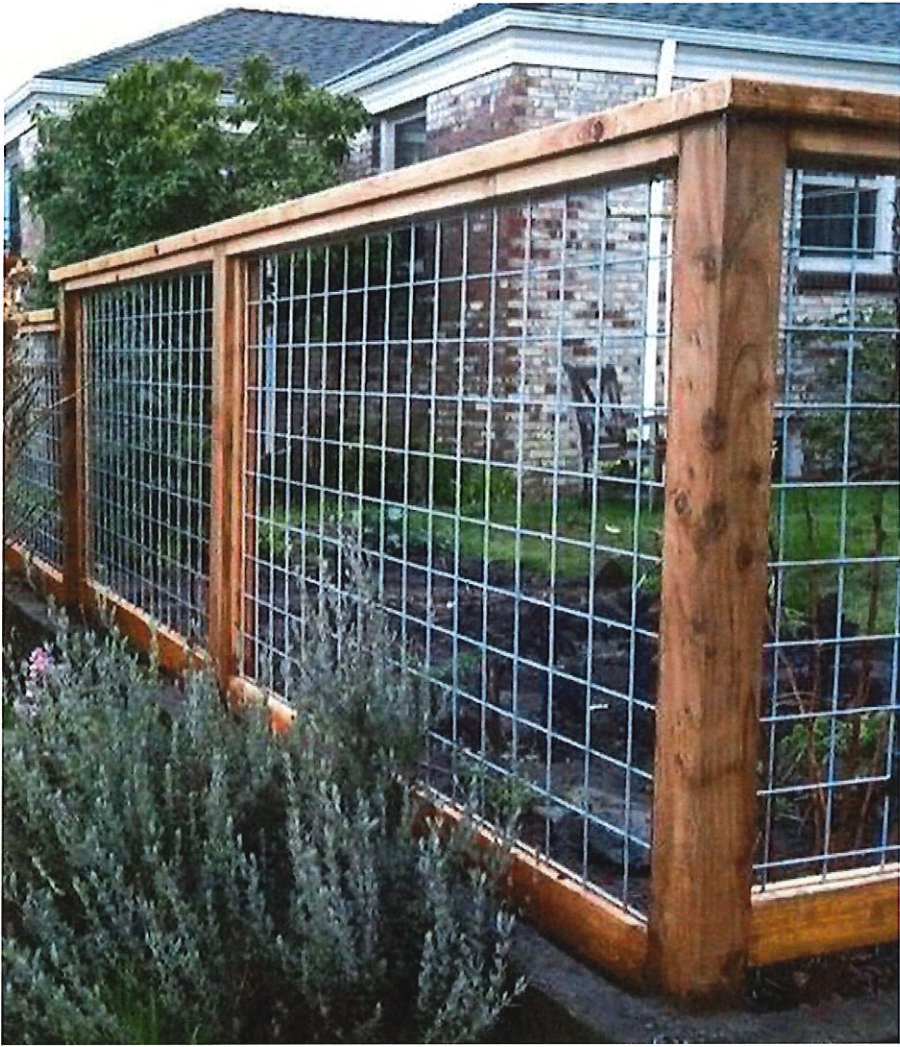


S-1 PERGOLA - DETAIL SECTION  
SCALE 1/2" = 1'-0"

E-2 PERGOLA - SOUTH ELEVATION  
SCALE 1/2" = 1'-0"

E-1 PERGOLA - WEST ELEVATION  
SCALE 1/2" = 1'-0"

















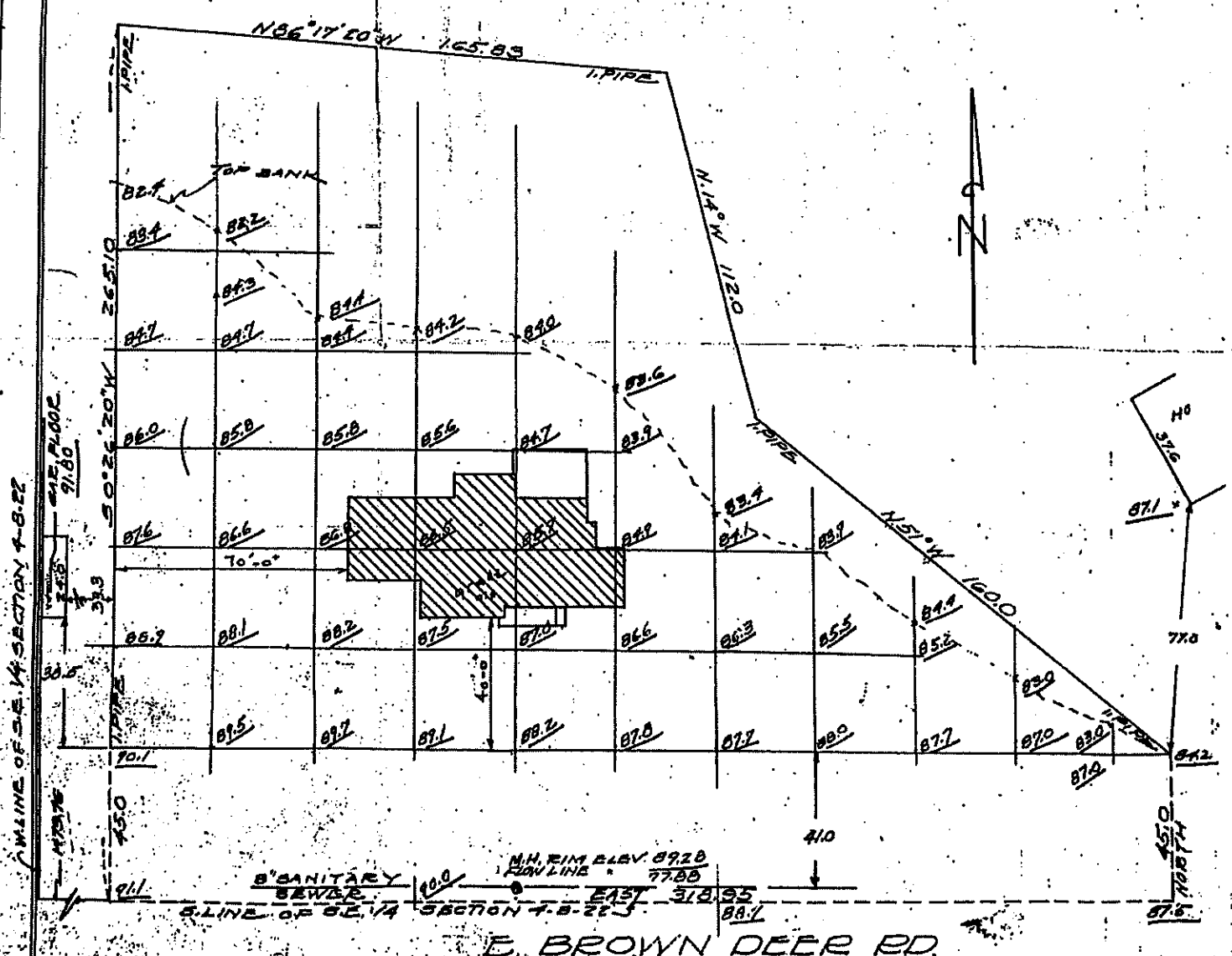
Plat No. 22-18-2-2

# PLAT OF SURVEY

OF PROPERTY OF Farms Schley (for owner)

described as follows: That part of the NE<sup>1</sup>/<sub>4</sub> of Section 4, Town 8 North, Range 11 East, in the Town of Dayside, Milwaukee County, Wisconsin, bounded and described as follows: Commence at a point in the South line of said Section, 1478.76 ft. East of the Southwest corner of said Section, running thence East along the South line of said Section, 318.88 ft. to a point; thence North 45.0 ft. to a point; thence N. 66° 17' 20" W., 166.83 ft. to a point; thence S. 0° 26' 20" W., 265.10 ft. to the place of commencement. Reserving the South 45.0 ft. for public street purposes.

1166  
APPROVED  
VILLAGE OF DAYSIDE  
BUILDING COMMITTEE  
DATE: March 20, 1926



LINE OF S.E. 1/4 SECTION 4-B-22

SCALE 1" = 30 FT.

**H. C. WEBSTER & SON**  
 728 NORTH SECOND STREET MILWAUKEE, WIS.  
 DONALD W. WEBSTER  
 REGISTERED CIVIL ENGINEER  
 ASSOCIATE  
 ROY J. CHARMOCK

AFFIDAVIT:  
 I hereby certify that I have made a survey on ..... 1926, and that the location of the ..... Building on above described property is correctly shown on the above plat.

STATE OF WISCONSIN  
 COUNTY OF MILWAUKEE  
 I, D. W. WEBSTER, Surveyor, do hereby certify that I have made a survey of the above described property and that the above plat is a true representation of said survey.  
 Milwaukee, Wis. Feb 26 1926  
D. W. Webster  
 SVE







## Project Proposal

Date 4-14-2020

Property Address \_\_\_\_\_

Zoning \_\_\_\_\_

- |   |   |
|---|---|
| <input type="checkbox"/> Accessory Structures/Generators<br><input type="checkbox"/> Additions/Remodel<br><input type="checkbox"/> Bluff Management<br><input type="checkbox"/> Commercial Signage<br><input type="checkbox"/> Decks/Patios<br><input type="checkbox"/> Fence<br><input type="checkbox"/> Fire Pits<br><input type="checkbox"/> Landscaping requiring Impervious Surface/Fill/Excavation Permit | <input type="checkbox"/> New Construction<br><input type="checkbox"/> Play Structures<br><input type="checkbox"/> Recreational Facilities/Courts<br><input type="checkbox"/> Roofs<br><input type="checkbox"/> Solar Panels/Skylights<br><input type="checkbox"/> Swimming Pools<br><input type="checkbox"/> Windows/Doors-change exceeds 25% of opening<br><input checked="" type="checkbox"/> Other <u>UTILITY BUILDING</u> |
|---|---|

Proposed project details (type of work, size, materials, etc.):

NEW CONTROL BUILDING FOR SANITARY  
SEWER LIFT STATION TO REPLACE  
EXISTING LIFT STATION

\*\*\*\*\* For Office Use Only \*\*\*\*\*

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Color photographs showing project location, elevations and surrounding views
<input type="checkbox"/>	<input type="checkbox"/>	Two (2) complete sets of building plans (including elevations and grading)
<input type="checkbox"/>	<input type="checkbox"/>	Survey
<input type="checkbox"/>	<input type="checkbox"/>	Samples or brochures showing materials, colors and designs
<input type="checkbox"/>	<input type="checkbox"/>	Application Fee
<input type="checkbox"/>	<input type="checkbox"/>	Parcel Number
<input type="checkbox"/>	<input type="checkbox"/>	ARC Agenda Date:
<input type="checkbox"/>	<input type="checkbox"/>	Building Permit
<input type="checkbox"/>	<input type="checkbox"/>	Fill Permit
<input type="checkbox"/>	<input type="checkbox"/>	Impervious Surface Permit
<input type="checkbox"/>	<input type="checkbox"/>	Plan Commission/Conditional Use Permit
<input type="checkbox"/>	<input type="checkbox"/>	Tax Key Number
<input type="checkbox"/>	<input type="checkbox"/>	Right-of-Way/Excavation Permit
<input type="checkbox"/>	<input type="checkbox"/>	Variance Required



VA2d

**HERMITAGE AND  
BAYPOINT LIFT  
STATION CONDITION  
ASSESSMENT REPORT**

**Village of Bayside  
Wisconsin**

**Prepared for:**

**Village of Bayside  
9075 North Regent Road  
Bayside, WI 53217**

**Prepared By:**

**Kapur & Associates, Inc.  
Consulting Engineers  
7711 N. Port Washington Rd.  
Milwaukee, Wisconsin 53217  
Phone: (414) 751-7200**

**February 2019**







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DATE: 1/18/2019

TO: Village of Bayside – Shane Albers, Andy Pederson

FROM: Kapur & Associates, Inc.

SUBJECT: Hermitage and Baypoint Lift Station Condition Assessment Report

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## 1. EXECUTIVE SUMMARY

Kapur & Associates, Inc. has been retained by the Village of Bayside to inspect and prepare a condition assessment for two aging lift stations: Hermitage and Baypoint. This assessment will be used in the planning of the anticipated lift station improvements. In general, the scope of services for the condition assessment is to perform a site inspection and lift station analysis to determine future improvements to the system.

Based on the site inspection and lift station analysis, Kapur recommends that pressure transducers be installed in both wet wells, a SCADA system installed at each lift station and the electrical controls be upgraded for both lift stations. Inverted “J” tubes are not required but recommended for both lift station valve vaults to supply fresh air to the structure. Standpipes should be installed at the wet well and valve vault to allow bypass pumping in the event of an emergency. The city owned portable pump can utilize these connections.

Additional recommendations for the lift stations include replacing the backup generator at the Baypoint Lift Station with a new generator and moving the existing Baypoint Lift Station generator to the Hermitage Lift Station to replace the existing generator. A new control building to house the new generator and new controls should be built at the Baypoint Lift Station. A new control building to only house the controls should be constructed at the Hermitage Lift Station. An infiltration and inflow (I&I) study should be conducted in both service areas to identify locations of I&I into the system.

## 2. SITE INVESTIGATION AND RECOMMENDATIONS

Site investigations were conducted by Kapur & Associates, Inc. on December 4, 2018 from 9:00 am to 10:00 am at the Hermitage and Baypoint Lift Stations.

- Hermitage lift station is located at 1440 E. Hermitage Rd.
- Baypoint lift station is located at 1460 E. Bay Point Rd.

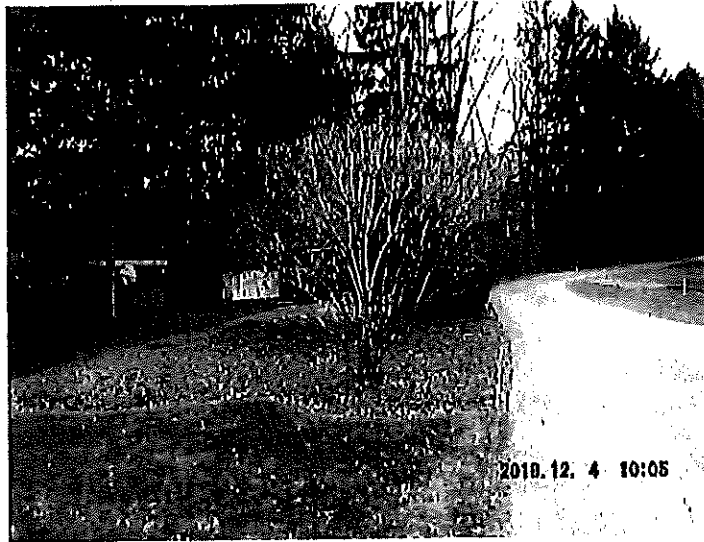
## 2.1 Hermitage Lift Station

Hermitage Lift Station Condition Assessment			
Lift Station Components		Condition (Good or Poor)	Comments
Site Components	Parking for Maintenance Vehicles	Good	Shared driveway
	Site Drainage Away from Structure	Good	No known issues at this site
	Surrounding Follage (Trees, bushes, shrubs)	Good	No obstructs to access equipment
	Site and Structure Security	Poor	Install unlawful entry alarm
	By-Pass Availability	None	By pass is not required
Structural Components	Condition of Valve Vault	Good	Permanent concrete structure should last over 60 years
	Condition of Wet Well	Good	Permanent concrete structure should last over 60 years
	Valve Vault Ventilation	None	Ventilation is not required, inverted "J" tube is recommended
	Pump Removal	Good	Structure has a hatch for pump maintenance
Mechanical Components	Pump Condition	Good	Repairs on an as needed basis
	Motor Condition	Good	Repairs on an as needed basis
	Valve Condition	Good	Repairs on an as needed basis
	Pipe Condition	Good	Repairs on an as needed basis
Electrical Components	On-Site Generator	Poor	Recommended to be replaced because of age
	Motor Starters	Good	No known issues
	Controls	Poor	Recommend Updating Controls
	SCADA System	Poor	Recommend new system
	Exterior Conduits	Good	No known issues
	Interior Conduits	Good	No known issues
	Flow Meter	None	Not recommended for small lift stations
	Level Sensor	Poor	Recommend replacing floats with pressure transducers



### *Site Components*

Parking at Hermitage Lift Station consists of a residential driveway to reach the lift station easement (Figure 1). Maintenance vehicles have an adequate amount of space to park at this location. There were no signs of drainage issues at the site and access to the valve vault, wet well, control building and generator are not blocked by dense foliage. The control building is kept locked when not in use. Additional site security, such as an entry alarm, is recommended.



*Figure 1: Hermitage Lift Station Site*

### *Structural Components*

The Hermitage Lift Station was constructed in 1992. The concrete valve vault and wet well at the Hermitage Lift Station are in good condition. The concrete wet well and valve vaults are permanent structures and should last over 60 years. A hatch is available for pump removal. The wet well has an inverted "J" tube for ventilation. Valve vaults can be vented with a portable ventilator when maintenance is required. An inverted "J" tube is not required for this type of structure, but one is recommended to provide continuous fresh air.

### *Mechanical Components*

The mechanical components in the wet well includes two 80 gallons per minute (gpm) Flygt pumps with 2.7 HP motors. The pumps provide a TDH (total dynamic head) of 26 feet. Kapur does not recommend replacing the pumps as they are still working as designed.

The mechanical components in the valve vault includes four plug valves, two swing check valves and ductile iron piping. The piping and valves are in good condition and replacement is not recommended.

It is unknown if there is excessive infiltration and inflow (I&I) entering the lift station. Kapur recommends an I&I investigation at this location to identify if I&I is entering the system.

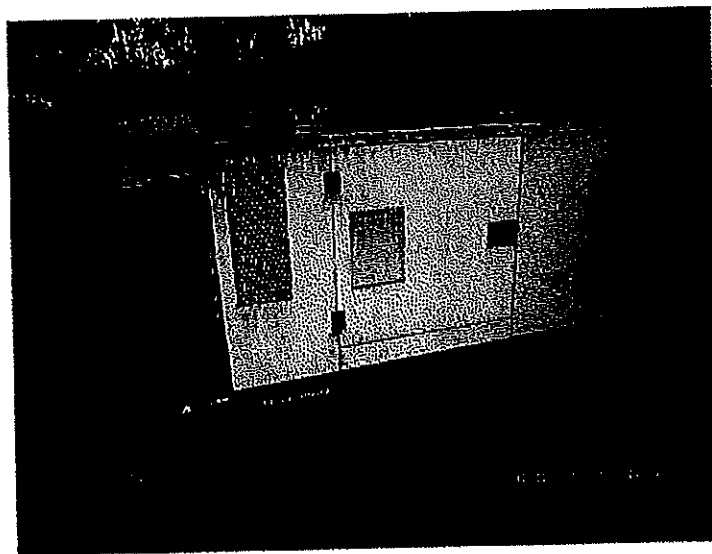
A pump bypass is not available for this lift station and is not required. Kapur recommends that standpipes should be installed and connected to the wet well to provide a bypass if the pumps were out of service for an extended length of time. When the pumps are not working in an emergency, stand pipes will allow for easy and fast connections to the city owned portable pump. The nearest manhole for discharge to with a hose is about 360 feet away. Discharging to this manhole with a hose is not recommended.

### *Electrical Components*

The existing control operating system has reached the end of its useful life. Kapur recommends that the control system should be updated. New controls will provide a screen that will display the condition of the lift station in real time. A new SCADA monitoring system should be installed with the new controls. The SCADA system will record and store operational information about the lift station that can be accessed by the owner on a secure website. The system would also provide immediate alarm notification via text and email. Kapur recommends an Antx Aquavx Scout cellular alarm dialer as a cost-effective system.

Floats are currently being used in the wet well as a level sensor. Kapur recommends replacement of the floats with a pressure transducer. Pressure transducers provide an accurate reading and are easy to install. The floats can be used as a backup system for a high-level alarm.

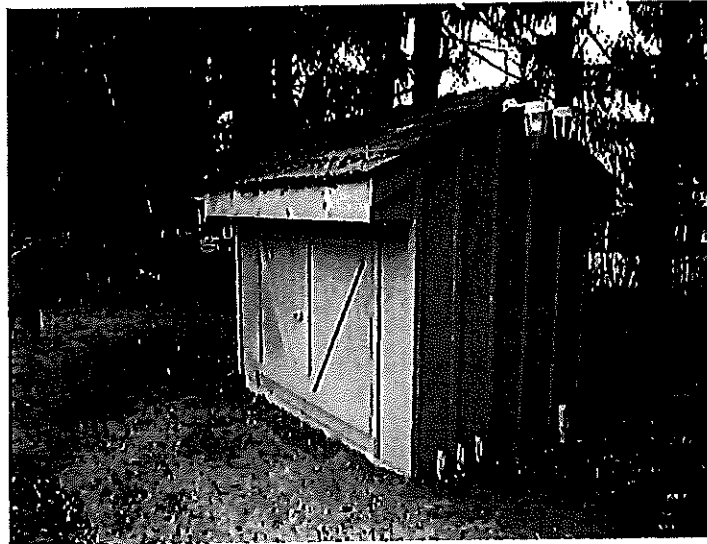
The generator at the Hermitage Lift Station is 25 years old and has reached the end of its useful life (Figure 2). Kapur recommends that the generator should be replaced. The generator located at the Baypoint Lift Station is in good condition and should be moved to this site to save replacement costs.



*Figure 2: Hermitage Lift Station Generator*

Kapur recommends that the existing control building (Figure 3) be replaced with a similar structure that is easier to access for maintenance. The existing entry to the control building is short and requires operators to crouch to enter the control building. The roof on the existing structure also needs repairs. Significant upgrades to the relocated generator would be required to store it in the

control building. Since the recommended control building does not need to house the generator, the building would have a similar footprint as the existing.



*Figure 3: Hermitage Lift Station Control Building*

Generators should continue to be run weekly. During discussions with the operators, it was brought to Kapur's attention that, during backup generator testing when the pumps are running, the pumps do not turn on after the testing is complete. This causes the high-level alarm to activate at the lift station. With new controls and a new generator, this issue will be alleviated.



## 2.2 Baypoint Lift Station

<b>Baypoint Lift Station Condition Assessment</b>			
<b>Lift Station Components</b>		<b>Condition (Good or Poor)</b>	<b>Comments</b>
<b>Site Components</b>	Parking for Maintenance Vehicles	Good	Shared driveway
	Site Drainage Away from Structure	Poor	Control building has been known to flood during heavy rain events
	Surrounding Foliage (Trees, bushes, shrubs)	Good	No obstructs to access equipment
	Site and Structure Security	Poor	Install unlawful entry alarm
	By-Pass Available	None	By pass is not required
<b>Structural Components</b>	Condition of Valve Vault	Good	Permanent concrete structure should last over 60 years
	Condition of Wet Well	Good	Permanent concrete structure should last over 60 years
	Valve Vault Ventilation	None	Ventilation is not required, inverted "J" tube is recommended
	Pump Removal	Good	Structure has a hatch for pump maintenance
<b>Mechanical Components</b>	Pump Condition	Good	Repairs on an as needed basis
	Motor Condition	Good	Repairs on an as needed basis
	Valve Condition	Good	Repairs on an as needed basis
	Pipe Condition	Good	Repairs on an as needed basis
<b>Electrical Components</b>	On-Site Generator	Good	Recommend relocating and constructing new enclosed structure for a new generator
	Motor Starters	Good	No known issues
	Controls	Poor	Recommend updating controls
	SCADA System	Poor	Recommend new system
	Exterior Conduits	Good	No known issues
	Interior Conduits	Good	No known issues
	Flow Meter	None	Not recommended for small lift stations
Level Sensor	Poor	Recommend replacing floats with pressure transducers	

### *Site Components*

Parking at Baypoint Lift Station consists of a street parking to reach the lift station easement (Figure 4). Maintenance vehicles have an adequate amount of space to park at this location. The control building has been known to flood at this location. Access to the valve vault, wet well, control building and generator are not blocked by dense foliage. The control building is kept locked when not in use. Additional site security, such as an entry alarm, is recommended.



*Figure 4: Baypoint Lift Station Site*

### *Structural Components*

The Baypoint Lift Station was constructed in 1992. The concrete valve vault and wet well at the Baypoint Lift Station are in good condition. The concrete wet well and valve vaults are permanent structures and should last over 60 years. A hatch is available for pump removal. The wet well has an inverted "J" tube for ventilation. Valve vaults can be vented with a portable ventilator when maintenance is required. An inverted "J" tube is not required for this type of structure, but one is recommended to provide continuous fresh air.

### *Mechanical Components*

The mechanical components in the wet well includes two 80 gallons per minute (gpm) Flygt pumps with 2.7 HP motors. The pumps provide a TDH (total dynamic head) of 22.5 feet. Kapur does not recommend replacing the pumps as they are still working as designed.

The mechanical components in the valve vault includes four plug valves, two swing check valves and ductile iron piping. The piping and valves are in good condition and replacement is not recommended.

Infiltration and Inflow (I&I) is expected to be a major cause of large flows at this lift station. During the beginning of rainfall events, flows at the lift station tend to increase drastically. Kapur recommends an I&I investigation at this location to identify how I&I is entering the system.

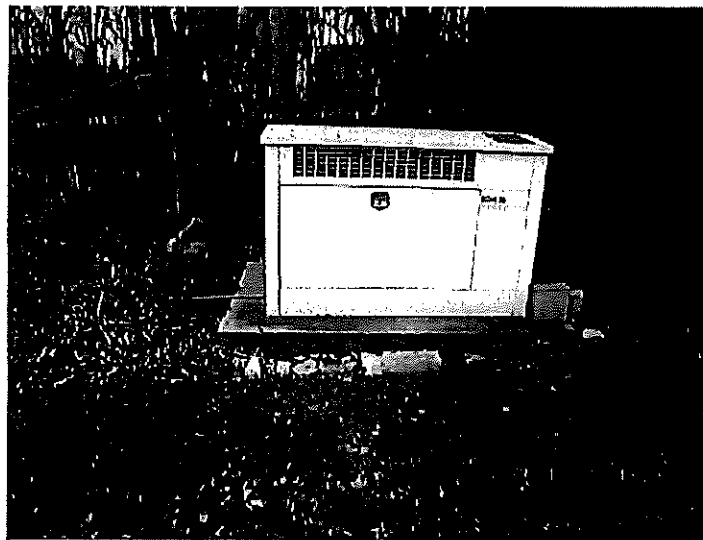
A pump bypass is not available for this lift station and is not required. Kapur recommends that standpipes should be installed and connected to the wet well to provide a bypass if the pumps were out of service for an extended length of time. When the pumps are not working in an emergency, stand pipes will allow for easy and fast connections to the city owned portable pump. The nearest manhole for discharge to with a hose is about 880 feet away. Discharging to this manhole with a hose is not recommended.

### *Electrical Components*

The existing control operating system has reached the end of its useful life. Kapur recommends that the control system should be updated. New controls will provide a screen that will display the condition of the lift station in real time. A new SCADA monitoring system should be installed with the new controls. The SCADA system will record and store operational information about the lift station that can be accessed by the owner on a secure website. The system would also provide immediate alarm notification via text and email. Kapur recommends an Antx Aquavx Scout cellular alarm dialer as a cost-effective system.

Floats are currently being used in the wet well as a level sensor. Kapur recommends replacement of the floats with a pressure transducer. Pressure transducers provide an accurate reading and are easy to install. The floats can be used as a backup system for high level alarm.

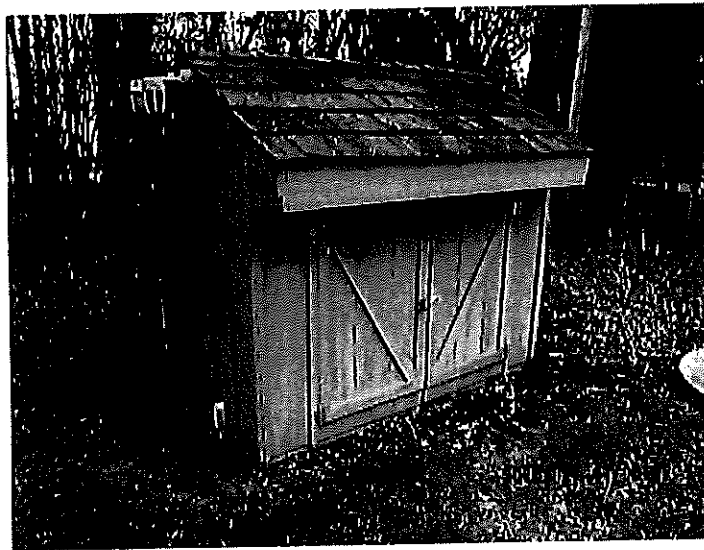
The generator at the Baypoint Lift Station is 10-12 years old and continues to run as intended (Figure 5). Outside generators typically last around 20 years before they should be replaced. The Baypoint generator has an estimated 8-10 years left before replacement would be recommended. Kapur recommends that this generator should be moved to the Hermitage Lift Station and a new indoor generator be purchased for this site. A new control building is recommended at this site and a newly purchased generator should be put in this new building. Generators should continue to be run weekly.



*Figure 5: Baypoint Lift Station Generator*



Kapur recommends that a new heated control building should be constructed to replace the existing structure (Figure 6). The new building would house the control equipment and the new generator, like the Lake Drive Lift Station. The enclosed structure will extend the life of the generator by providing protection from the elements. The structure will be located above the floodplain to prevent flooding in the control building. This has been a problem at the site in the past. Existing easements will need to be analyzed during design to ensure adequate space is available for a new structure. If space is not available, easement discussion with local property owners would be required to increase the size of the existing easement for a new building. The control building will be designed to be above flood level to eliminate the existing flooding issue at this location.



*Figure 6: Baypoint Lift Station Control Building*

### 3. CONCLUSION

Possible recommendations for the Bayside lift stations are listed in Table 1. Costs per recommendation are provided.

*Table 1: Possible Recommendations for Bayside Lift Stations*

Recommendation	Cost
New control building (to house controls and generator)	\$85,000
New control building (to house controls only)	\$45,000
Replace generator	\$35,000
New controls with pressure transducers	\$25,000
New SCADA	\$6,000
I&I investigation	\$6,000
Relocated generator	\$5,000
New standpipe	\$5,000
Inverted "J" tube for ventilation	\$800

Hermitage Lift Station:

Kapur recommendations are listed in Table 2 for the Hermitage Lift Station. The lift station does not require a new generator if the Bay Point Lift Station is relocated to this site. A new control building is recommended for the new controls but is not required to house the generator. These options alleviate the most issues and increase the life of the new equipment while decreasing maintenance costs to the equipment. An I&I investigation at this location should be conducted to identify how I&I is entering the system.

*Table 2: Hermitage Lift Station Recommendations*

Recommendation	Cost
New control building (to house controls only)	\$45,000
New controls with pressure transducers	\$25,000
New SCADA	\$6,000
I&I investigation	\$6,000
Relocated generator	\$5,000
New standpipe	\$5,000
Inverted "J" tube for ventilation	\$800
<b>Total:</b>	<b>\$92,800</b>

Bay Point Lift Station:

Kapur recommendations are listed in Table 3 for the Baypoint Lift Station. The current generator at this site should be relocated to the Hermitage Lift Station site and a new generator purchased. The generator and new controls should be housed in a new control building to be constructed at this site. These options alleviate the most issues and increase the life of the new equipment while decreasing maintenance costs to the equipment. An I&I investigation at this location should be conducted to identify how I&I is entering the system.

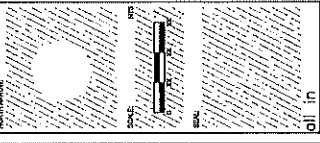
*Table 3: Baypoint Lift Station Recommendations*

Recommendation	Cost
New control building (to house controls and generator)	\$85,000
Replace generator	\$35,000
New controls with pressure transducers	\$25,000
New SCADA	\$6,000
I&I investigation	\$6,000
New standpipe	\$5,000
Inverted "J" tube for ventilation	\$800
<b>Total:</b>	<b>\$162,800</b>





NO.	DATE	DESCRIPTION



### ABBREVIATIONS

A	AIR (PLANT UTILITY)
AL	ALUMINUM
BRG.EL	BEARING ELEVATION
CHWR	CHILLED WATER RETURN CHILLED WATER SUPPLY
CHWS	CHEMICAL WATER SUPPLY
CL	CLEAN OUT
CO	CONCRETE
CCONC.	CONTROL JOINT
CJ	CORRUGATED METAL PIPE
CMP	COLD WATER
CMV	CONCRETE MASONRY UNIT
CMU	CONCRETE MASONRY UNIT
D	DEBRIT
DCT	DUCTILE IRON
DIL	DUCTILE IRON PIPE SIZE
DS	DIGESTED SLUDGE
EL	ELEVATION
ELEC	ELECTRICAL
E.S.	EACH SIDE
EXIST	EXISTING
E.W.	EACH WAY
F.F.EL	FINISHED FLOOR ELEVATION
FM	FORCE MAIN
G	NATURAL GAS
GALV.	GALVANIZED
HV	HOT WATER
HVR	HEATING WATER RETURN
HVS	HEATING WATER SUPPLY
INSUL	INSULATION
OC	ON CENTER
PD	PLANT DRAIN
PL	PLATE
RD	ROOF DRAIN
RDR	REDUCER
R.O.	ROUGH OPENING
SAN	SANITARY
SE	SECONDARY EFFLUENT
SS	STAINLESS STEEL
SST	STORM SEWER
T.O.F	TOP OF FOOTING
T.O.W	TOP OF WALL
V.I.F	VERIFY IN THE FIELD
V	VENT
WAS	WASTE ACTIVATED SLUDGE
WMM	WELDED WIRE MESH
Ø	DIAMETER

### SECTION DESIGNATION

INDICATES LETTER NUMBER DESIGNATION OF SECTION

INDICATES DRAWING WHERE SECTION DETAIL IS TAKEN (ON SAME DRAWING)

INDICATES DRAWING WHERE SECTION IS SHOWN (ON SAME DRAWING)

INDICATES DIRECTION OF SECTION CUT

INDICATES LETTER DESIGNATION OF SECTION

INDICATES DIRECTION OF SECTION CUT

INDICATES LETTER NUMBER DESIGNATION OF SECTION DETAIL

INDICATES DRAWING WHERE SECTION DETAIL IS TAKEN (ON SAME DRAWING)

INDICATES DRAWING WHERE SECTION IS SHOWN (ON SAME DRAWING)

INDICATES DIRECTION OF SECTION CUT

INDICATES LETTER DESIGNATION OF SECTION

INDICATES DIRECTION OF SECTION CUT

### PIPE IDENTIFICATION

PF	FIRE PROTECTION
PW	POTABLE WATER
XN	SANITARY
YS	SERVICE WATER
XW	WASTE WATER
SS	STORM SEWER
FM	FORCE MAIN
S	SANITARY SEWER
W	WATER MAIN
+	WETLAND
+	REMOVAL

NOTES:

- THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE USED ON THE PLANS.
- EXISTING PIPING, EQUIPMENT, STRUCTURE, AND TOPOGRAPHY ARE SHOWN SCREENED AND/OR LIGHT LINED. NEW PIPING, EQUIPMENT, STRUCTURE, AND FINISHED GRADE ARE SHOWN HEAVY LINED.

### CIVIL LEGEND

	BITUMINOUS CONCRETE PAVEMENT
	GRAVEL SHOULDER
	CONCRETE WALK
	CONTROL POINT
	BENCHMARK
	EXISTING GRADE
	ESTABLISHED GRADE
	RAILROAD TRACKS
	SIGN
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	EASEMENT LINE
	BASELINE
	SURVEY REFERENCE LINE
	CHAIN-LINK RAILING
	POST OR GUARD POST
	TREE REMOVAL
	WOODED AREA
	RESTORATION TOPSOIL W/ SEED
	ABANDONED PIPES
	PIPES TO BE ABANDONED
	BORING LOCATION
	PROPOSED SILT FENCE

### PROJECT DETAIL NUMBERING DESIGNATION

100 THRU 199	CIVIL
200 THRU 299	STRUCTURAL
300 THRU 399	MECHANICAL
400 THRU 499	HVAC
500 THRU 599	PLUMBING
600 THRU 699	ELECTRICAL
700 THRU 799	

SEE DETAIL (200) ON DRAWING WHERE DETAIL IS TAKEN

PROJECT DETAIL DESIGNATION (311) ON DRAWING WHERE DETAIL IS SHOWN

### PIPE IDENTIFICATION

PF	FIRE PROTECTION
PW	POTABLE WATER
XN	SANITARY
YS	SERVICE WATER
XW	WASTE WATER
SS	STORM SEWER
FM	FORCE MAIN
S	SANITARY SEWER
W	WATER MAIN
+	WETLAND
+	REMOVAL

CURVE DATA

R = RADIUS L = LENGTH

Δ = DELTA ST = SEMITANGENT

### CIVIL LEGEND

	FORCE MAIN
	SANITARY SEWER AND MANHOLE
	WATER MAIN, HYDRANT AND VALVE
	GAS MAIN
	UNDERGROUND TELEPHONE CABLE
	UNDERGROUND ELECTRIC CABLE
	EDGE OF CONCRETE
	EDGE OF BITUMINOUS PAVEMENT
	CONTOUR LINE
	STATIONING
	ROAD
	CULVERT
	STORMWATER INLET
	ELECTRICAL MANHOLE
	ELECTRICAL HANDHOLE
	AREA-LIGHTING BASE
	DRAINAGE WAY OR DITCH
	MATCH LINE AND BREAK LINE
	ALUMINUM HANDRAIL
	STRUCTURE
	FENCE
	POWER POLE WITH GUY SUPPORT

### CIVIL LEGEND

	BITUMINOUS CONCRETE PAVEMENT
	GRAVEL SHOULDER
	CONCRETE WALK
	CONTROL POINT
	BENCHMARK
	EXISTING GRADE
	ESTABLISHED GRADE
	RAILROAD TRACKS
	SIGN
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	EASEMENT LINE
	BASELINE
	SURVEY REFERENCE LINE
	CHAIN-LINK RAILING
	POST OR GUARD POST
	TREE REMOVAL
	WOODED AREA
	RESTORATION TOPSOIL W/ SEED
	ABANDONED PIPES
	PIPES TO BE ABANDONED
	BORING LOCATION
	PROPOSED SILT FENCE

### CIVIL LEGEND

	FORCE MAIN
	SANITARY SEWER AND MANHOLE
	WATER MAIN, HYDRANT AND VALVE
	GAS MAIN
	UNDERGROUND TELEPHONE CABLE
	UNDERGROUND ELECTRIC CABLE
	EDGE OF CONCRETE
	EDGE OF BITUMINOUS PAVEMENT
	CONTOUR LINE
	STATIONING
	ROAD
	CULVERT
	STORMWATER INLET
	ELECTRICAL MANHOLE
	ELECTRICAL HANDHOLE
	AREA-LIGHTING BASE
	DRAINAGE WAY OR DITCH
	MATCH LINE AND BREAK LINE
	ALUMINUM HANDRAIL
	STRUCTURE
	FENCE
	POWER POLE WITH GUY SUPPORT

CURVE DATA

R = RADIUS L = LENGTH

Δ = DELTA ST = SEMITANGENT

**PLUMBING LINE SCHEDULE**

LINE TYPE	DESCRIPTION	ABBREVIATION
—	COLD WATER	CW
—	HOT WATER	HW
—	SOFT WATER	SW
—	HOT WATER RETURN	HWR
—	VENT	V
—	DRAIN (SANITARY SEWER)	D
—	STORM SEWER	SS
—	NATURAL GAS	G
—	POTABLE WATER	CW
—	NON-POTABLE WATER	W2
—	PLANT WATER (FINAL EFFLUENT)	FE
—	PROCESS PIPING	PS

**MATERIAL LEGEND**

SYMBOL	LEGEND
	CONCRETE
	CMU PLAN
	CMU SECTION
	METAL STUD WALL PLAN
	RIGID INSULATION
	BATT INSULATION
	PLYWOOD
	STEEL
	MASONRY VENEER
	WOOD, ROUGH NON-CONTINUOUS
	WOOD, FINISHED
	GROUND SURFACE
	COMPACTED STRUCTURAL FILL
	CONCERT FILL
	DRAIN FILL
	FIRE EXTINGUISHER "x" = No. IN SPECS
	INDICATES 1 HOUR FIRE RATED CONST.
	INDICATES 2 HOUR FIRE RATED CONST.

**HEATING, VENTILATING, AND AIR CONDITIONING SYMBOLS**

SYMBOL	DESCRIPTION
	HIGH TEMPERATURE HEATING WATER SUPPLY
	LOW TEMPERATURE HEATING WATER RETURN
	NATURAL GAS
	CONDENSATE DRAIN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	DUCT RISE THRU PLANE OF VIEW
	SUPPLY DUCT DROP
	EXHAUST/RETURN DUCT RISE THRU PLANE OF VIEW
	EXHAUST/RETURN DUCT DROP
	RETURN GRILLE (TYPE, QTY, SIZE, CFM)
	ROUND SUPPLY DIFFUSER (TYPE, QTY, SIZE, CFM)
	RECTANGULAR SUPPLY DIFFUSER (TYPE, QTY, SIZE PATTERN, CFM)
	DOOR GRILLE (TYPE, SIZE, CFM)
	BACKDRAFT DAMPER
	FIRE DAMPER
	HORIZONTAL POS.
	VERTICAL POS.
	SMOKE DAMPER
	ACCESS DOOR
	CEILING DIFFUSER IN FIRE RATED CEILING
	ELBOW WITH TURNING VANES
	FLEXIBLE DUCT CONNECTION
	TERMINAL UNIT, VAV
	BOOSTER COIL WITH ACCESS DOORS
	RECTANGULAR DUCT
	ROUND DUCT
	ACOUSTICALLY LINED DUCT
	DUCT SECTION, SUPPLY
	DUCT SECTION, EXHAUST/RETURN
	RISER (R) OR DROP (D) IN DIRECTION OF FLOW

**HERITAGE AND BAY POINTS GENERATORS**

HERITAGE AND BAY POINTS GENERATORS
VILLAGE OF BAYSIDE



**BID AND CONSTRUCTION**

NO.	DATE	DESCRIPTION



**ARCHITECTURAL LEGEND**

DOOR	
WINDOW	
PROJECT NO.	
DRAWING NO.	
SHEET NUMBER	3

**GENERAL NOTES**

- UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- "FIRST FLOOR EL" REFERS TO TOP OF CONCRETE SLABS, FINISH FLOORING IS INSTALLED ABOVE THE FLOOR LINE FOR DEPRESSED FLOORS AND CURBS. SEE STRUCTURAL DRAWINGS.
- REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- WHERE DOORS IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE INCHES FROM FACE OF MASONRY (WALL) AND 2" FROM FACE OF METAL STUD WALL TO FACE OF ROUGH OPENING.
- AT SOUND INSULATED WALLS, FULL HEIGHT PARTITIONS SHALL BE SEALED BOTH SIDES WITH ACOUSTIC SEALANT; TOP, BOTTOM, INTERSECTIONS, DOOR FRAMES, GLAZED OPENING FRAMES, AND OTHER PENETRATIONS.
- LINE OF EXISTING GRADES, AS SHOWN ON THE BUILDING ELEVATIONS AND DETAILS, IS APPROXIMATE. THEY ARE AT THE BUILDING FACE, OR ON THE SECTION END EXCEPT AS NOTED.
- VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CATEGORIES OF DRAWINGS FOR ADDITIONAL NOTES.
- VERIFY SIZE AND LOCATION OF AND PROVIDE ALL OPENINGS THROUGH FLOORS AND WALLS, ACCESS DOORS, FLOORING, CURBS, ANCHORS AND INSERTS, PROVIDE ALL BASES, BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT.









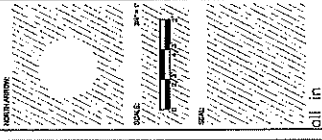






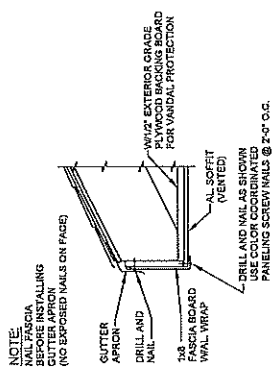


NO.	DATE	DESCRIPTION



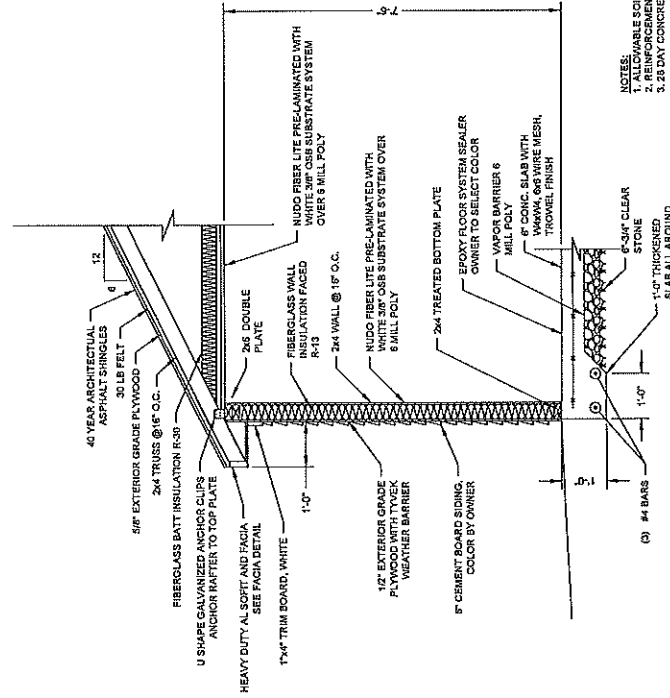
PROJECT: HERITAGE LS WALL SECTION

DESIGNED BY:	JLB
DRAWN BY:	
CHECKED BY:	
PROJECT NO.:	18-027014
DRAWING NO.:	LSH-A-3



NOTE: OWNER TO SELECT COLOR OF AL TRIM.

**FASCIA WALL WRAP**  
 N.T.S.



- NOTES:
1. ALLOWABLE SOIL BEARING PRESSURE = 1800 PSF
  2. REINFORCEMENT STEEL YIELD STRENGTH  $f_y$  = 80,000 PS
  3. 28 DAY CONCRETE COMPRESSIVE STRENGTH  $f_c$  = 4000 PSI

TYPICAL WALL SECTION  
 SCALE: 3/4" = 1'-0"











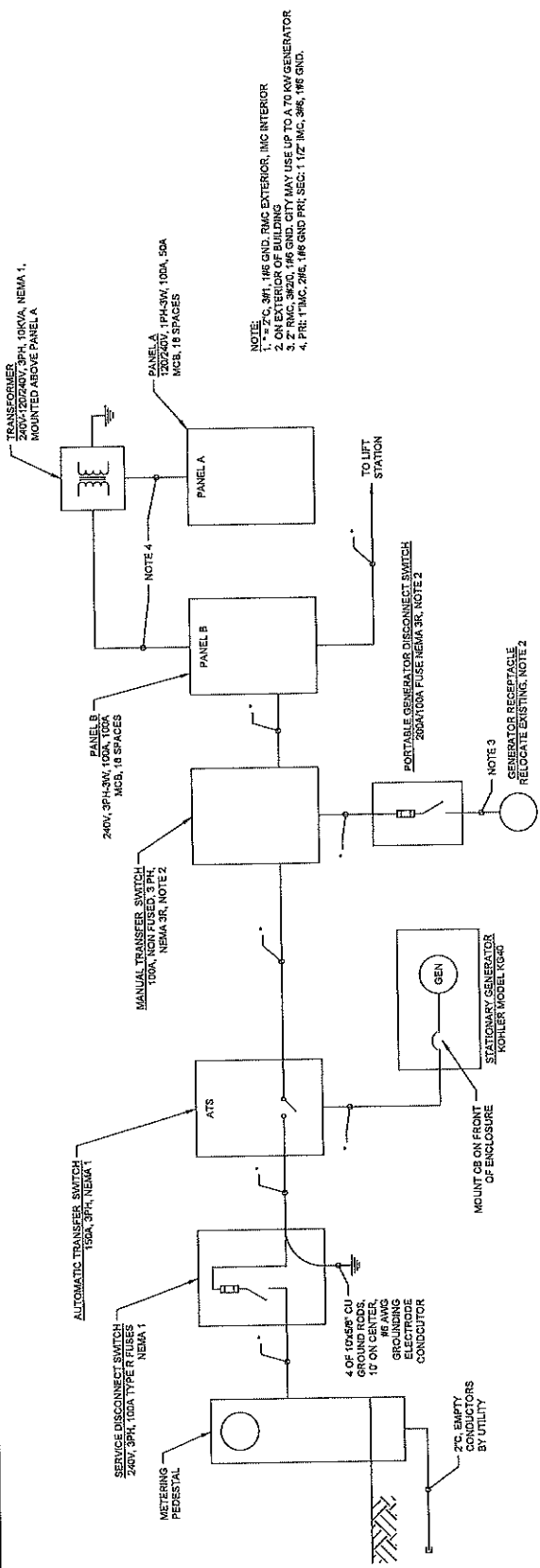








PROJECT: HERITAGE AND BAY POINT LS GENERATORS	LOCATION: VILLAGE OF BAYSIDE	OWNER: SEASIDE	INSTALL: BID AND CONSTRUCTION
DATE: 10/11/10	DESIGNER: JLD	DRAWN: JLD	CHECKED: JLD
PROJECT NO.: 16.0270.01	DRAWING NO.: E-1		



PANEL	CIRCUIT DESCRIPTION	BUS AMPS 100	VOLTAGE 240	PHASE 3	WIRE 3	MAIN BREAKER	MOUNTING SURFACE	REMARKS
A	MAIN BREAKER	50/2						
	BATTERY CHARGER	20/1						20/1 BLOCK HEATER
	BUILDING VENTILATION FAN	20/1						20/1 RECEPTACLE EXTERIOR LIGHTING
	SMOKE DETECTOR	15/1						8, 20/1 RECEPTACLE (LST RECEPT IS GR)
	SPACE							8, 20/1 GENERATOR LOWERS
	SPACE							10
	SPACE							11
	SPACE							12
	SPACE							14
	SPACE							15
SPACE							16	
SPACE							17	
SPACE							18	

SQUARE D MODEL NQ16L1C

PANEL	CIRCUIT DESCRIPTION	BUS AMPS 100	VOLTAGE 240	PHASE 3	WIRE 3	MAIN BREAKER	MOUNTING SURFACE	REMARKS
B	MAIN BREAKER	50/2						
	10 KVA TRANSFORMER	50/2						20/3 SUBFEED TO LIFT STA
	SPACE							2
	SPACE							3
	SPACE							4
	SPACE							5
	SPACE							6
	SPACE							7
	SPACE							10
	SPACE							12
SPACE							13	
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SPACE							18	

SQUARE D MODEL NQ16L1C

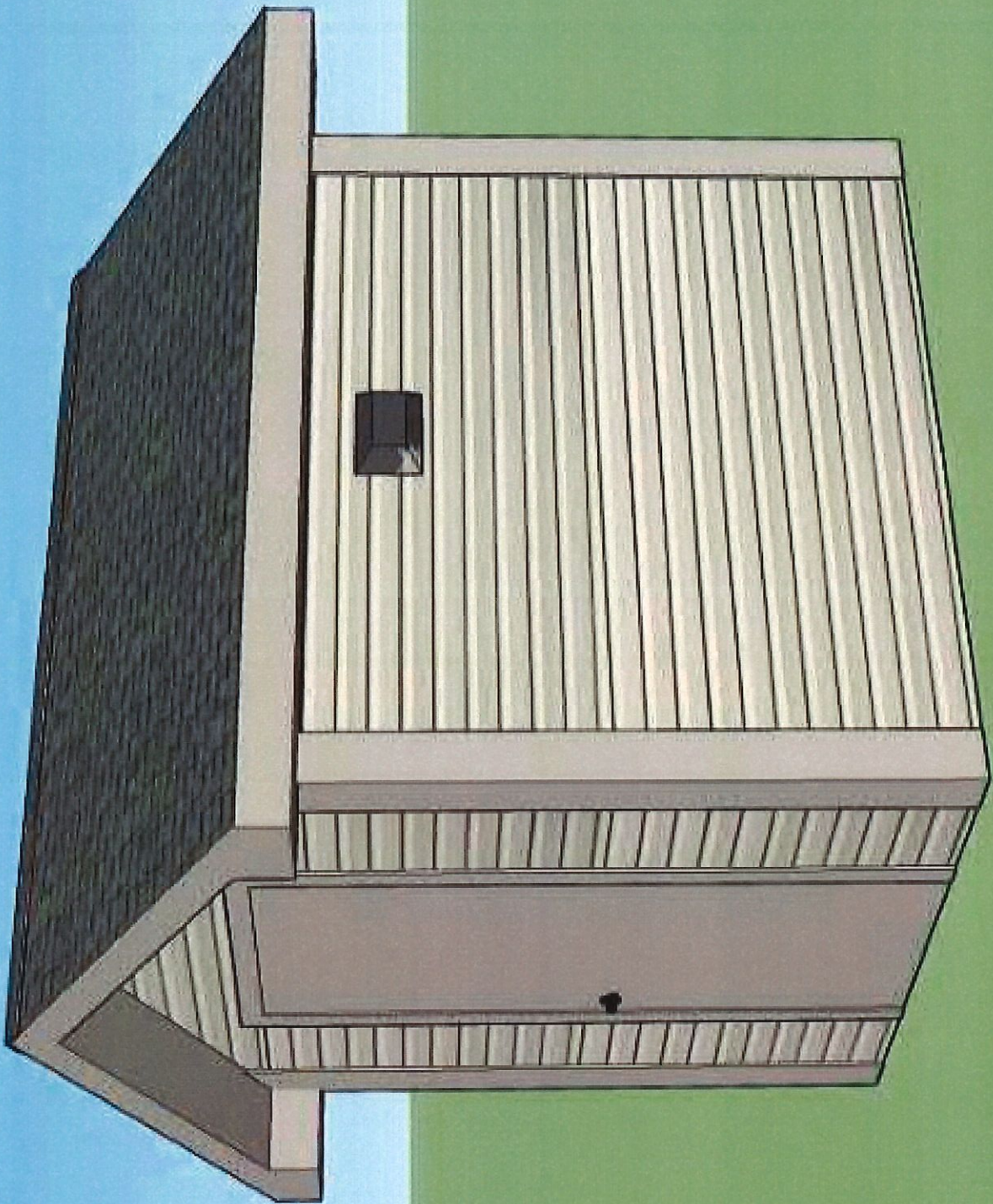
**ONE-LINE DIAGRAM**

Description	From	To	Conduit & Cable	Remarks
Lighting	Panel A	2 Lights	3/4" C, 2#12, 1#12 GND	Switch by door
Vent Fan	Panel A	Vent Fan	3/4" C, 2#12, 1#12 GND	1-Start on opposite side of room. Reverse facility: START
Block Heater	Vent Fan	Block Heater	1/2" C, 2#14, 1#14 GND	Route via floor slab.
Battery Charger	Panel A	Battery Charger	3/4" C, 2#12, 1#12 GND	Route via floor slab.
Receptacle	Panel A	Receptacles	3/4" C, 2#12, 1#12 GND	8/2, 2 receptacles
SCADA	Generator	SCADA in Lift Sta. See Note	1-1/2" C, 10 #14	Signals (unpower contacts except M) 1. Generator fail (fan) 2. Generator fall in building 3. Smoke fire in building 4. Rear Alarm Light from Lift Sta. 5. SP216
Smoke Detector	Panel A	JB for SCADA signals	1/2" C, 2#14	See signal list above SCADA list above.
Alarm Light	Panel A	Alarm Light	3/4" C, 2#14, 1#14 GND	Power
Smoke Detector	Panel A	Smoke Detector	3/4" C, 2#14, 1#14 GND	Contacts at Gen to control, 4th floor slab
Gen Lowers	Generator	Gen Lowers	3/4" C, 2#12, 1#12 GND	To both buvers MOD1
Room Heater	Panel A	Inlet & Exhaust Louvers	3/4" C, 2#12, 1#12 GND	Intrigal T-STAT
Exterior Light	Panel A	LED Wall Pre Light	3/4" C, 2#12, 1#12 GND	Wall switch to do disable, PE on lights.

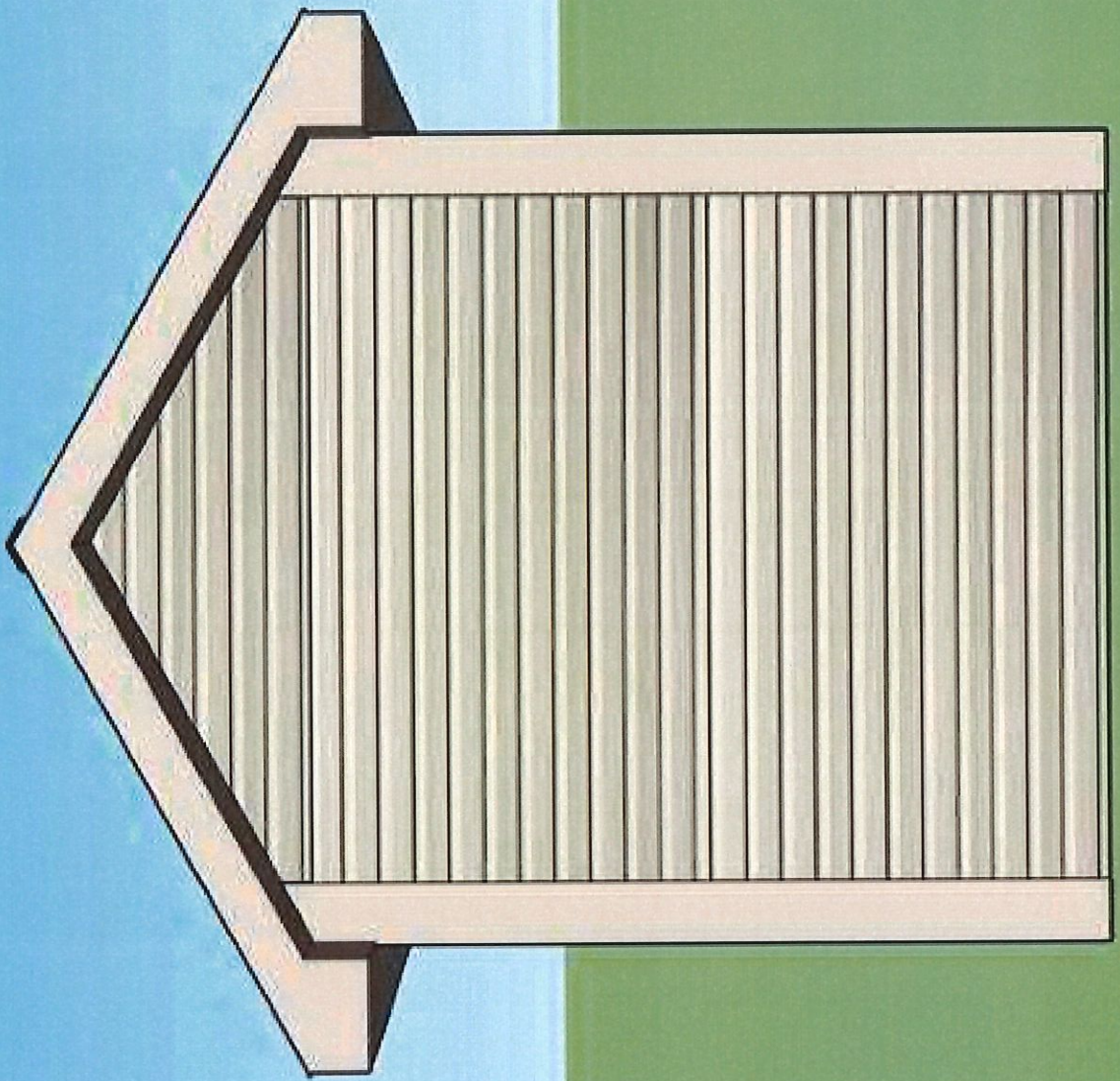
**MISCELLANEOUS WIRING REQUIREMENTS**

NOTE: ROUTE FROM BUILDING TO LOWER LEVEL IN LIFT STATION. PROVIDE JB ADJACENT TO SCADA IN LIFT STATION. SCADA CONNECTION BY OTHERS. ID WIRING. TERMINATE SPARE IN JB IN BUILDING AND JB AT SCADA. APPROXIMATE 4" OF CONDUIT AND WIRING IN LIFT STATION. ROUTE PARALLEL TO EXISTING CONDUIT IN LIFT STATION.

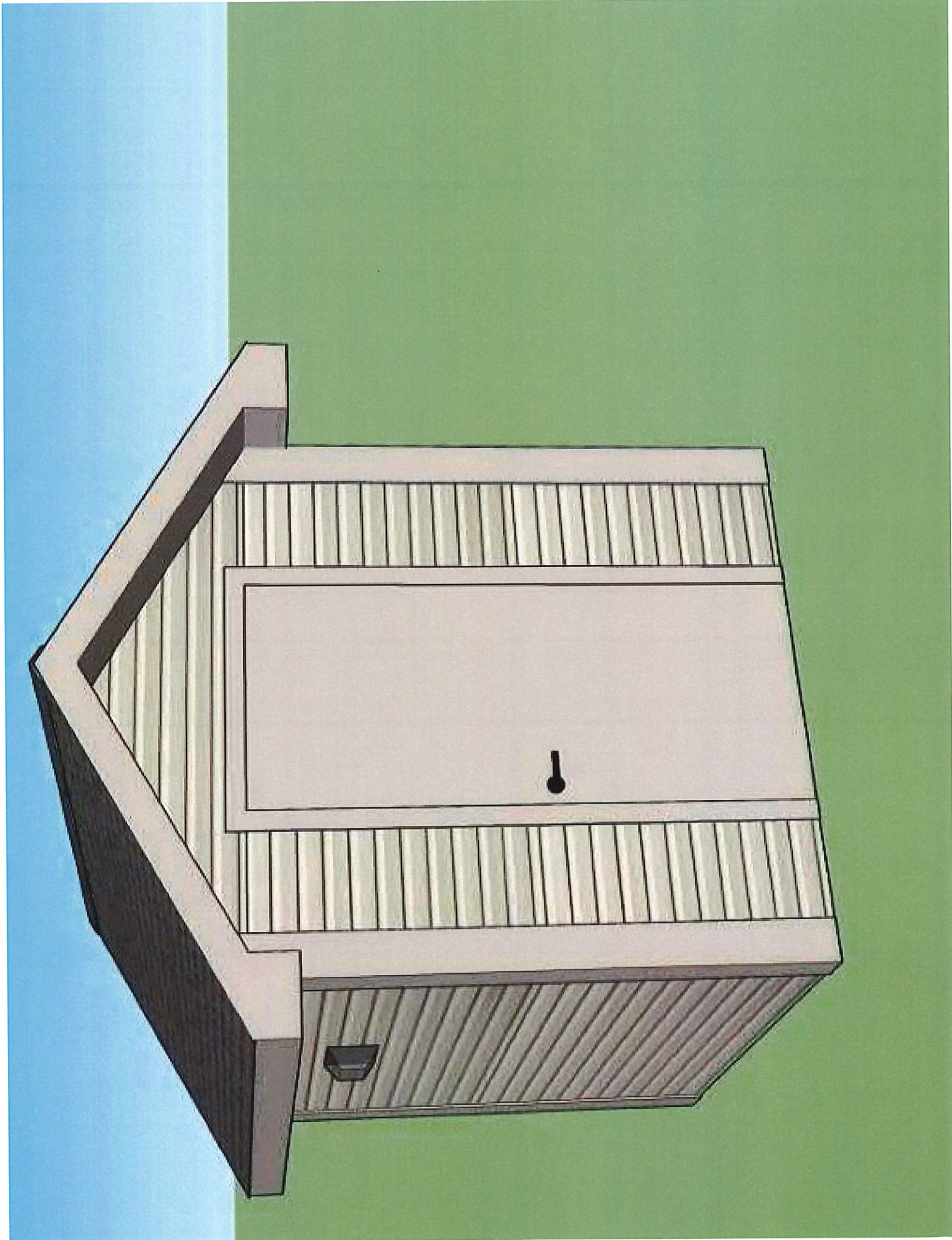




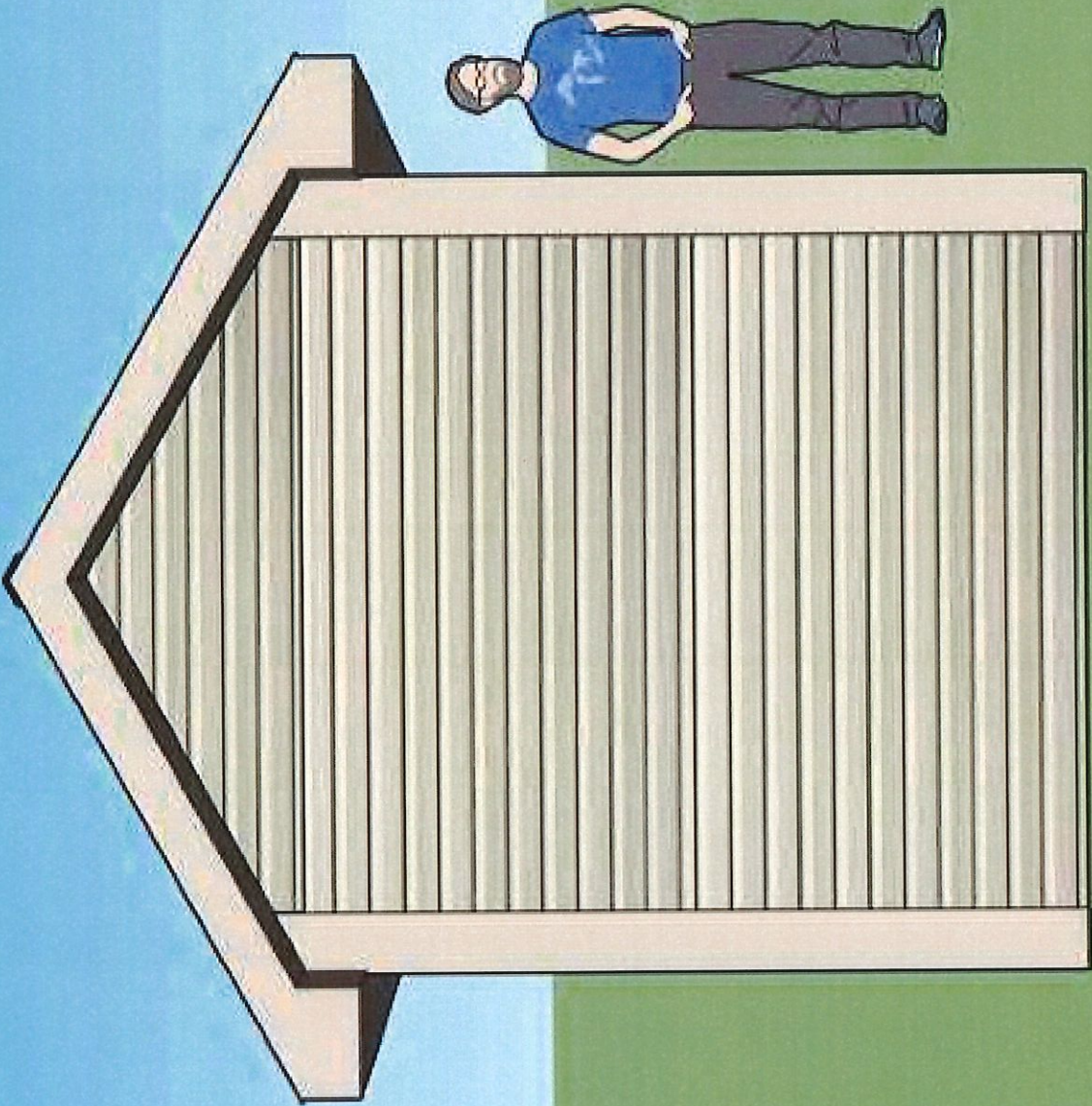




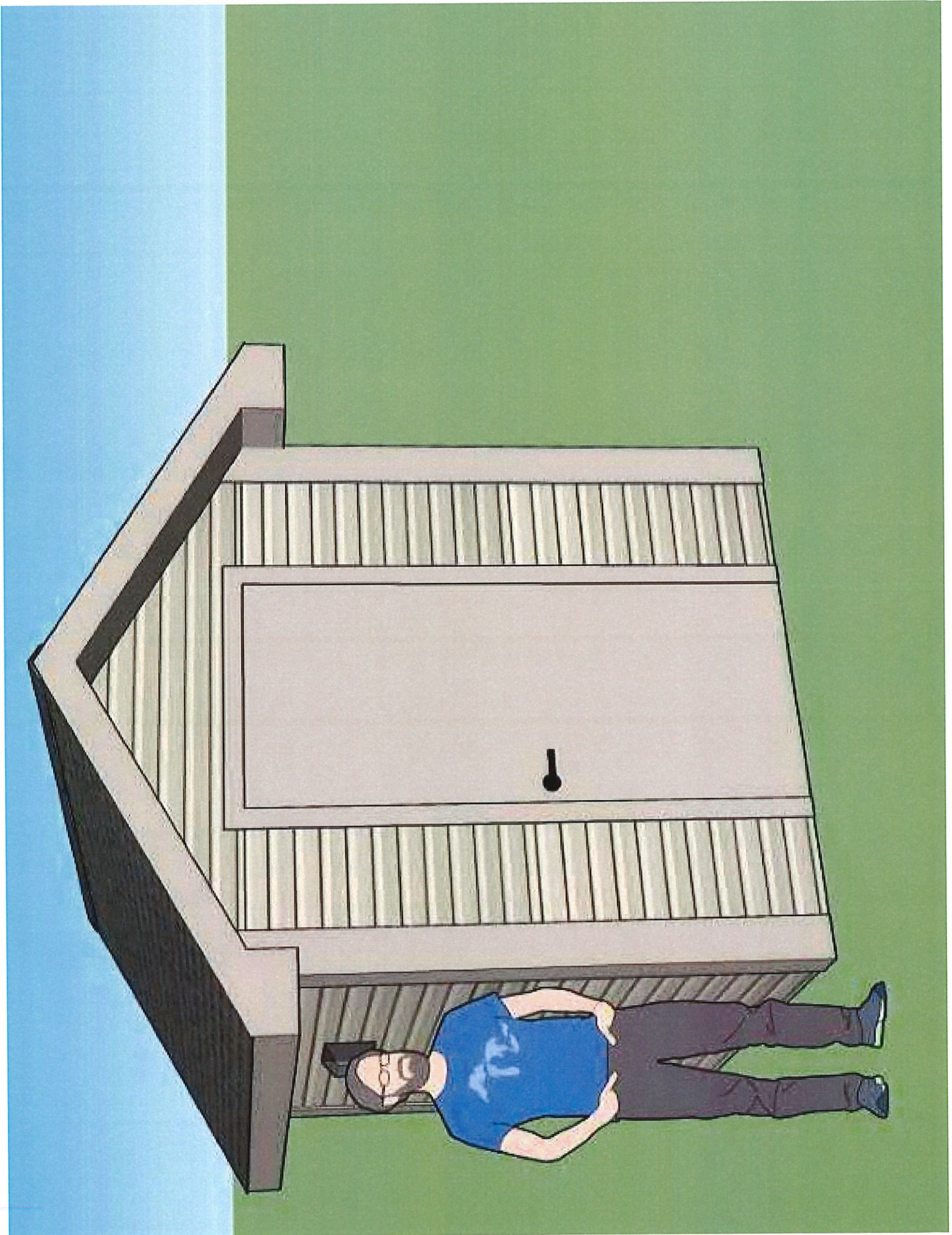




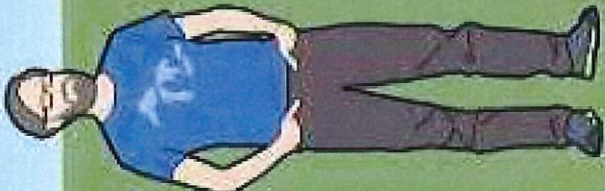
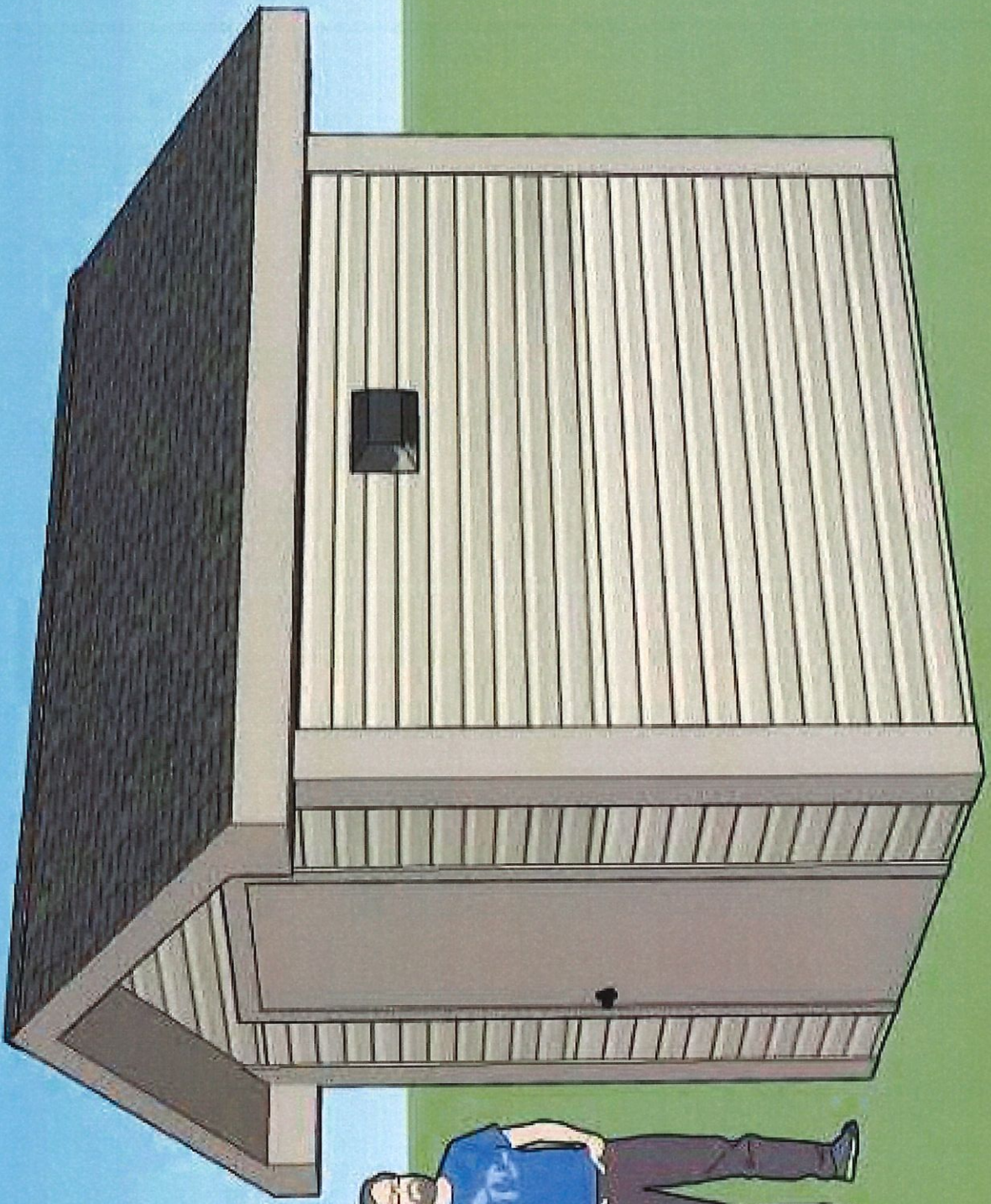














## Project Proposal

Date 4-14-2020

Property Address \_\_\_\_\_

Zoning \_\_\_\_\_

- |   |   |
|---|---|
| <input type="checkbox"/> Accessory Structures/Generators<br><input type="checkbox"/> Additions/Remodel<br><input type="checkbox"/> Bluff Management<br><input type="checkbox"/> Commercial Signage<br><input type="checkbox"/> Decks/Patios<br><input type="checkbox"/> Fence<br><input type="checkbox"/> Fire Pits<br><input type="checkbox"/> Landscaping requiring Impervious Surface/Fill/Excavation Permit | <input type="checkbox"/> New Construction<br><input type="checkbox"/> Play Structures<br><input type="checkbox"/> Recreational Facilities/Courts<br><input type="checkbox"/> Roofs<br><input type="checkbox"/> Solar Panels/Skylights<br><input type="checkbox"/> Swimming Pools<br><input type="checkbox"/> Windows/Doors-change exceeds 25% of opening<br><input checked="" type="checkbox"/> Other <b>UTILITY BUILDING</b> |
|---|---|

Proposed project details (type of work, size, materials, etc.):

NEW CONTROL BUILDING FOR SANITARY SEWER  
LIFT STATION TO REPLACE EXISTING  
LIFT STATION.

\*\*\*\*\* For Office Use Only \*\*\*\*\*

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Color photographs showing project location, elevations and surrounding views
<input type="checkbox"/>	<input type="checkbox"/>	Two (2) complete sets of building plans (including elevations and grading)
<input type="checkbox"/>	<input type="checkbox"/>	Survey
<input type="checkbox"/>	<input type="checkbox"/>	Samples or brochures showing materials, colors and designs
<input type="checkbox"/>	<input type="checkbox"/>	Application Fee
<input type="checkbox"/>	<input type="checkbox"/>	Parcel Number
<input type="checkbox"/>	<input type="checkbox"/>	ARC Agenda Date:
<input type="checkbox"/>	<input type="checkbox"/>	Building Permit
<input type="checkbox"/>	<input type="checkbox"/>	Fill Permit
<input type="checkbox"/>	<input type="checkbox"/>	Impervious Surface Permit
<input type="checkbox"/>	<input type="checkbox"/>	Plan Commission/Conditional Use Permit
<input type="checkbox"/>	<input type="checkbox"/>	Tax Key Number
<input type="checkbox"/>	<input type="checkbox"/>	Right-of-Way/Excavation Permit
<input type="checkbox"/>	<input type="checkbox"/>	Variance Required





VA2d

**HERMITAGE AND  
BAYPOINT LIFT  
STATION CONDITION  
ASSESSMENT REPORT**

**Village of Bayside  
Wisconsin**

**Prepared for:**

**Village of Bayside  
9075 North Regent Road  
Bayside, WI 53217**

**Prepared By:**

**Kapur & Associates, Inc.  
Consulting Engineers  
7711 N. Port Washington Rd.  
Milwaukee, Wisconsin 53217  
Phone: (414) 751-7200**

**February 2019**





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DATE: 1/18/2019

TO: Village of Bayside – Shane Albers, Andy Pederson

FROM: Kapur & Associates, Inc.

SUBJECT: Hermitage and Baypoint Lift Station Condition Assessment Report

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## 1. EXECUTIVE SUMMARY

Kapur & Associates, Inc. has been retained by the Village of Bayside to inspect and prepare a condition assessment for two aging lift stations: Hermitage and Baypoint. This assessment will be used in the planning of the anticipated lift station improvements. In general, the scope of services for the condition assessment is to perform a site inspection and lift station analysis to determine future improvements to the system.

Based on the site inspection and lift station analysis, Kapur recommends that pressure transducers be installed in both wet wells, a SCADA system installed at each lift station and the electrical controls be upgraded for both lift stations. Inverted “J” tubes are not required but recommended for both lift station valve vaults to supply fresh air to the structure. Standpipes should be installed at the wet well and valve vault to allow bypass pumping in the event of an emergency. The city owned portable pump can utilize these connections.

Additional recommendations for the lift stations include replacing the backup generator at the Baypoint Lift Station with a new generator and moving the existing Baypoint Lift Station generator to the Hermitage Lift Station to replace the existing generator. A new control building to house the new generator and new controls should be built at the Baypoint Lift Station. A new control building to only house the controls should be constructed at the Hermitage Lift Station. An infiltration and inflow (I&I) study should be conducted in both service areas to identify locations of I&I into the system.

## 2. SITE INVESTIGATION AND RECOMMENDATIONS

Site investigations were conducted by Kapur & Associates, Inc. on December 4, 2018 from 9:00 am to 10:00 am at the Hermitage and Baypoint Lift Stations.

- Hermitage lift station is located at 1440 E. Hermitage Rd.
- Baypoint lift station is located at 1460 E. Bay Point Rd.



## 2.1 Hermitage Lift Station

Hermitage Lift Station Condition Assessment			
Lift Station Components		Condition (Good or Poor)	Comments
Site Components	Parking for Maintenance Vehicles	Good	Shared driveway
	Site Drainage Away from Structure	Good	No known issues at this site
	Surrounding Foliage (Trees, bushes, shrubs)	Good	No obstructs to access equipment
	Site and Structure Security	Poor	Install unlawful entry alarm
	By-Pass Availability	None	By pass is not required
Structural Components	Condition of Valve Vault	Good	Permanent concrete structure should last over 60 years
	Condition of Wet Well	Good	Permanent concrete structure should last over 60 years
	Valve Vault Ventilation	None	Ventilation is not required, inverted "J" tube is recommended
	Pump Removal	Good	Structure has a hatch for pump maintenance
Mechanical Components	Pump Condition	Good	Repairs on an as needed basis
	Motor Condition	Good	Repairs on an as needed basis
	Valve Condition	Good	Repairs on an as needed basis
	Pipe Condition	Good	Repairs on an as needed basis
Electrical Components	On-Site Generator	Poor	Recommended to be replaced because of age
	Motor Starters	Good	No known issues
	Controls	Poor	Recommend Updating Controls
	SCADA System	Poor	Recommend new system
	Exterior Conduits	Good	No known issues
	Interior Conduits	Good	No known issues
	Flow Meter	None	Not recommended for small lift stations
	Level Sensor	Poor	Recommend replacing floats with pressure transducers

### *Site Components*

Parking at Hermitage Lift Station consists of a residential driveway to reach the lift station easement (Figure 1). Maintenance vehicles have an adequate amount of space to park at this location. There were no signs of drainage issues at the site and access to the valve vault, wet well, control building and generator are not blocked by dense foliage. The control building is kept locked when not in use. Additional site security, such as an entry alarm, is recommended.



*Figure 1: Hermitage Lift Station Site*

### *Structural Components*

The Hermitage Lift Station was constructed in 1992. The concrete valve vault and wet well at the Hermitage Lift Station are in good condition. The concrete wet well and valve vaults are permanent structures and should last over 60 years. A hatch is available for pump removal. The wet well has an inverted "J" tube for ventilation. Valve vaults can be vented with a portable ventilator when maintenance is required. An inverted "J" tube is not required for this type of structure, but one is recommended to provide continuous fresh air.

### *Mechanical Components*

The mechanical components in the wet well includes two 80 gallons per minute (gpm) Flygt pumps with 2.7 HP motors. The pumps provide a TDH (total dynamic head) of 26 feet. Kapur does not recommend replacing the pumps as they are still working as designed.

The mechanical components in the valve vault includes four plug valves, two swing check valves and ductile iron piping. The piping and valves are in good condition and replacement is not recommended.

It is unknown if there is excessive infiltration and inflow (I&I) entering the lift station. Kapur recommends an I&I investigation at this location to identify if I&I is entering the system.

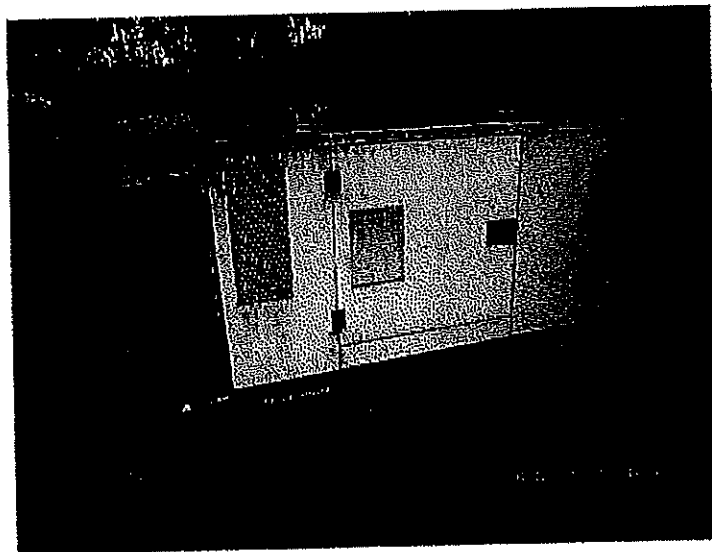
A pump bypass is not available for this lift station and is not required. Kapur recommends that standpipes should be installed and connected to the wet well to provide a bypass if the pumps were out of service for an extended length of time. When the pumps are not working in an emergency, stand pipes will allow for easy and fast connections to the city owned portable pump. The nearest manhole for discharge to with a hose is about 360 feet away. Discharging to this manhole with a hose is not recommended.

### *Electrical Components*

The existing control operating system has reached the end of its useful life. Kapur recommends that the control system should be updated. New controls will provide a screen that will display the condition of the lift station in real time. A new SCADA monitoring system should be installed with the new controls. The SCADA system will record and store operational information about the lift station that can be accessed by the owner on a secure website. The system would also provide immediate alarm notification via text and email. Kapur recommends an Antx Aquavx Scout cellular alarm dialer as a cost-effective system.

Floats are currently being used in the wet well as a level sensor. Kapur recommends replacement of the floats with a pressure transducer. Pressure transducers provide an accurate reading and are easy to install. The floats can be used as a backup system for a high-level alarm.

The generator at the Hermitage Lift Station is 25 years old and has reached the end of its useful life (Figure 2). Kapur recommends that the generator should be replaced. The generator located at the Baypoint Lift Station is in good condition and should be moved to this site to save replacement costs.

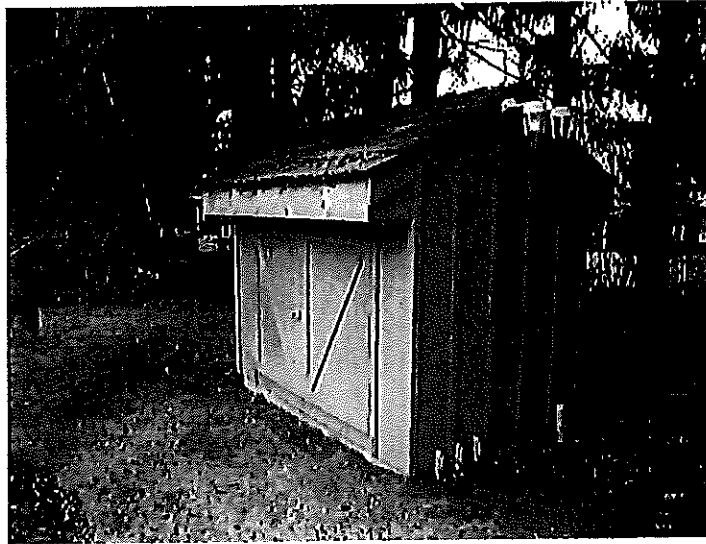


*Figure 2: Hermitage Lift Station Generator*

Kapur recommends that the existing control building (Figure 3) be replaced with a similar structure that is easier to access for maintenance. The existing entry to the control building is short and requires operators to crouch to enter the control building. The roof on the existing structure also needs repairs. Significant upgrades to the relocated generator would be required to store it in the



control building. Since the recommended control building does not need to house the generator, the building would have a similar footprint as the existing.



*Figure 3: Hermitage Lift Station Control Building*

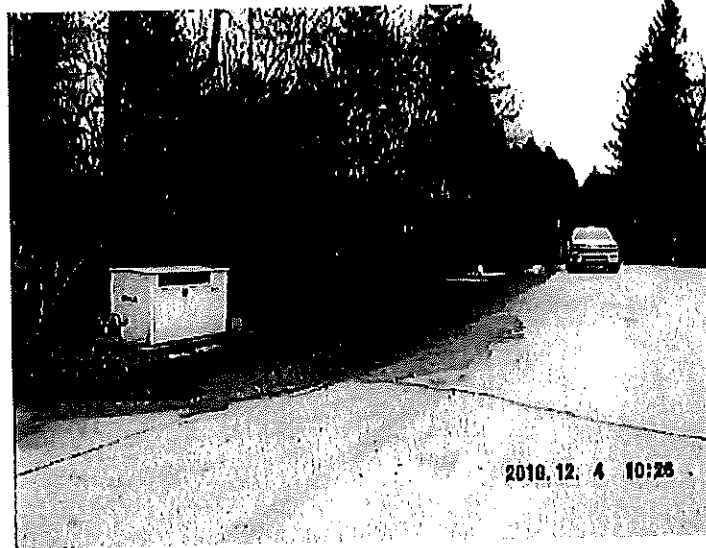
Generators should continue to be run weekly. During discussions with the operators, it was brought to Kapur's attention that, during backup generator testing when the pumps are running, the pumps do not turn on after the testing is complete. This causes the high-level alarm to activate at the lift station. With new controls and a new generator, this issue will be alleviated.

## 2.2 Baypoint Lift Station

<b>Baypoint Lift Station Condition Assessment</b>			
<b>Lift Station Components</b>		<b>Condition (Good or Poor)</b>	<b>Comments</b>
<b>Site Components</b>	Parking for Maintenance Vehicles	Good	Shared driveway
	Site Drainage Away from Structure	Poor	Control building has been known to flood during heavy rain events
	Surrounding Foliage (Trees, bushes, shrubs)	Good	No obstructs to access equipment
	Site and Structure Security	Poor	Install unlawful entry alarm
	By-Pass Available	None	By pass is not required
<b>Structural Components</b>	Condition of Valve Vault	Good	Permanent concrete structure should last over 60 years
	Condition of Wet Well	Good	Permanent concrete structure should last over 60 years
	Valve Vault Ventilation	None	Ventilation is not required, inverted "J" tube is recommended
	Pump Removal	Good	Structure has a hatch for pump maintenance
<b>Mechanical Components</b>	Pump Condition	Good	Repairs on an as needed basis
	Motor Condition	Good	Repairs on an as needed basis
	Valve Condition	Good	Repairs on an as needed basis
	Pipe Condition	Good	Repairs on an as needed basis
<b>Electrical Components</b>	On-Site Generator	Good	Recommend relocating and constructing new enclosed structure for a new generator
	Motor Starters	Good	No known issues
	Controls	Poor	Recommend updating controls
	SCADA System	Poor	Recommend new system
	Exterior Conduits	Good	No known issues
	Interior Conduits	Good	No known issues
	Flow Meter	None	Not recommended for small lift stations
Level Sensor	Poor	Recommend replacing floats with pressure transducers	

### *Site Components*

Parking at Baypoint Lift Station consists of a street parking to reach the lift station easement (Figure 4). Maintenance vehicles have an adequate amount of space to park at this location. The control building has been known to flood at this location. Access to the valve vault, wet well, control building and generator are not blocked by dense foliage. The control building is kept locked when not in use. Additional site security, such as an entry alarm, is recommended.



*Figure 4: Baypoint Lift Station Site*

### *Structural Components*

The Baypoint Lift Station was constructed in 1992. The concrete valve vault and wet well at the Baypoint Lift Station are in good condition. The concrete wet well and valve vaults are permanent structures and should last over 60 years. A hatch is available for pump removal. The wet well has an inverted "J" tube for ventilation. Valve vaults can be vented with a portable ventilator when maintenance is required. An inverted "J" tube is not required for this type of structure, but one is recommended to provide continuous fresh air.

### *Mechanical Components*

The mechanical components in the wet well includes two 80 gallons per minute (gpm) Flygt pumps with 2.7 HP motors. The pumps provide a TDH (total dynamic head) of 22.5 feet. Kapur does not recommend replacing the pumps as they are still working as designed.

The mechanical components in the valve vault includes four plug valves, two swing check valves and ductile iron piping. The piping and valves are in good condition and replacement is not recommended.

Infiltration and Inflow (I&I) is expected to be a major cause of large flows at this lift station. During the beginning of rainfall events, flows at the lift station tend to increase drastically. Kapur recommends an I&I investigation at this location to identify how I&I is entering the system.



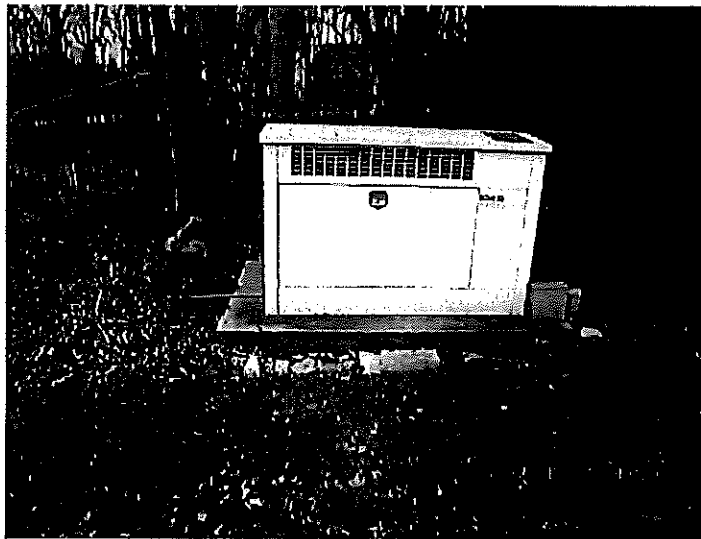
A pump bypass is not available for this lift station and is not required. Kapur recommends that standpipes should be installed and connected to the wet well to provide a bypass if the pumps were out of service for an extended length of time. When the pumps are not working in an emergency, stand pipes will allow for easy and fast connections to the city owned portable pump. The nearest manhole for discharge to with a hose is about 880 feet away. Discharging to this manhole with a hose is not recommended.

### *Electrical Components*

The existing control operating system has reached the end of its useful life. Kapur recommends that the control system should be updated. New controls will provide a screen that will display the condition of the lift station in real time. A new SCADA monitoring system should be installed with the new controls. The SCADA system will record and store operational information about the lift station that can be accessed by the owner on a secure website. The system would also provide immediate alarm notification via text and email. Kapur recommends an Antx Aquavx Scout cellular alarm dialer as a cost-effective system.

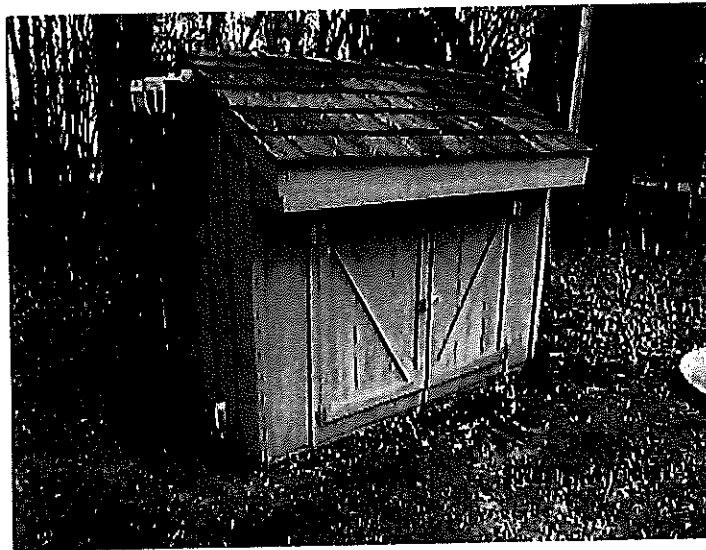
Floats are currently being used in the wet well as a level sensor. Kapur recommends replacement of the floats with a pressure transducer. Pressure transducers provide an accurate reading and are easy to install. The floats can be used as a backup system for high level alarm.

The generator at the Baypoint Lift Station is 10-12 years old and continues to run as intended (Figure 5). Outside generators typically last around 20 years before they should be replaced. The Baypoint generator has an estimated 8-10 years left before replacement would be recommended. Kapur recommends that this generator should be moved to the Hermitage Lift Station and a new indoor generator be purchased for this site. A new control building is recommended at this site and a newly purchased generator should be put in this new building. Generators should continue to be run weekly.



*Figure 5: Baypoint Lift Station Generator*

Kapur recommends that a new heated control building should be constructed to replace the existing structure (Figure 6). The new building would house the control equipment and the new generator, like the Lake Drive Lift Station. The enclosed structure will extend the life of the generator by providing protection from the elements. The structure will be located above the floodplain to prevent flooding in the control building. This has been a problem at the site in the past. Existing easements will need to be analyzed during design to ensure adequate space is available for a new structure. If space is not available, easement discussion with local property owners would be required to increase the size of the existing easement for a new building. The control building will be designed to be above flood level to eliminate the existing flooding issue at this location.



*Figure 6: Baypoint Lift Station Control Building*

### 3. CONCLUSION

Possible recommendations for the Bayside lift stations are listed in Table 1. Costs per recommendation are provided.

*Table 1: Possible Recommendations for Bayside Lift Stations*

<b>Recommendation</b>	<b>Cost</b>
New control building (to house controls and generator)	\$85,000
New control building (to house controls only)	\$45,000
Replace generator	\$35,000
New controls with pressure transducers	\$25,000
New SCADA	\$6,000
I&I investigation	\$6,000
Relocated generator	\$5,000
New standpipe	\$5,000
Inverted "J" tube for ventilation	\$800

Hermitage Lift Station:

Kapur recommendations are listed in Table 2 for the Hermitage Lift Station. The lift station does not require a new generator if the Bay Point Lift Station is relocated to this site. A new control building is recommended for the new controls but is not required to house the generator. These options alleviate the most issues and increase the life of the new equipment while decreasing maintenance costs to the equipment. An I&I investigation at this location should be conducted to identify how I&I is entering the system.

*Table 2: Hermitage Lift Station Recommendations*

<b>Recommendation</b>	<b>Cost</b>
New control building (to house controls only)	\$45,000
New controls with pressure transducers	\$25,000
New SCADA	\$6,000
I&I investigation	\$6,000
Relocated generator	\$5,000
New standpipe	\$5,000
Inverted "J" tube for ventilation	\$800
<b>Total:</b>	<b>\$92,800</b>

Bay Point Lift Station:

Kapur recommendations are listed in Table 3 for the Baypoint Lift Station. The current generator at this site should be relocated to the Hermitage Lift Station site and a new generator purchased. The generator and new controls should be housed in a new control building to be constructed at this site. These options alleviate the most issues and increase the life of the new equipment while decreasing maintenance costs to the equipment. An I&I investigation at this location should be conducted to identify how I&I is entering the system.

*Table 3: Baypoint Lift Station Recommendations*

<b>Recommendation</b>	<b>Cost</b>
New control building (to house controls and generator)	\$85,000
Replace generator	\$35,000
New controls with pressure transducers	\$25,000
New SCADA	\$6,000
I&I investigation	\$6,000
New standpipe	\$5,000
Inverted "J" tube for ventilation	\$800
<b>Total:</b>	<b>\$162,800</b>

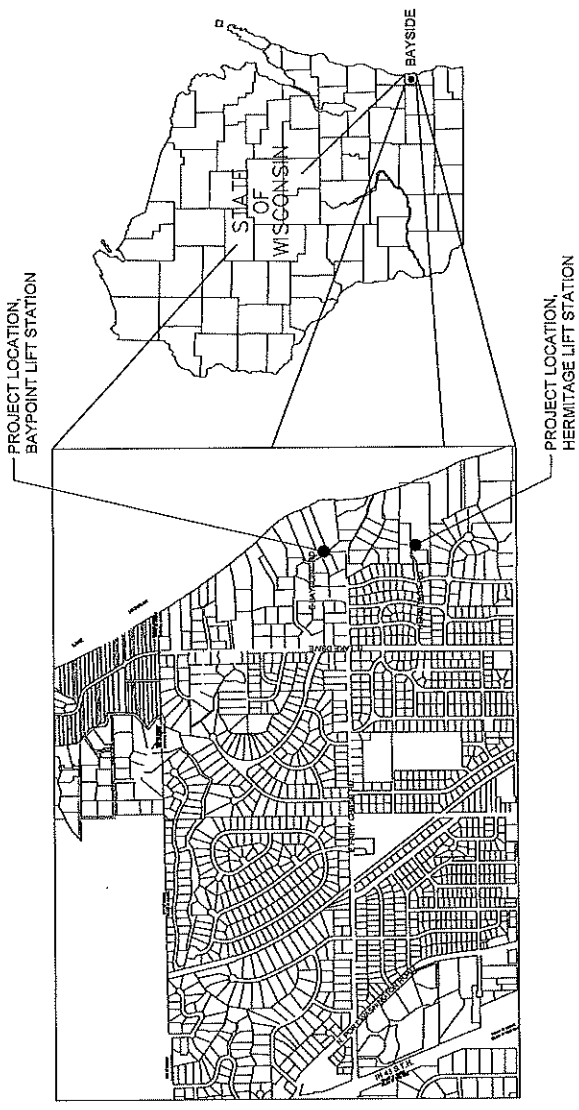


# HERMITAGE AND BAYPOINT LIFT STATION GENERATOR PROJECT

## BAYSIDE, WISCONSIN

### INDEX TO DRAWINGS

SHEET NO.	DRAWING NO.	TITLE
1	G-1	TITLE SHEET
2	G-2	CIVIL LEGEND
3	G-3	ARCHITECTURAL LEGEND
4	G-4	ELECTRICAL LEGEND
5	G-5	GENERAL SHEETS
6	G-6	CIVIL NOTES
<b>HERMITAGE LIFT STATION</b>		
7	LSH-C-1	HERMITAGE SITE PLAN
8	LSH-A-1	HERMITAGE LS EXTERIOR ELEV.
9	LSH-A-2	HERMITAGE LS SCHEDULE
10	LSH-A-3	HERMITAGE LS WALL SECTION
11	LSH-EH-1	HERMITAGE LS LIGHTING & HVAC
<b>BAYPOINT LIFT STATION</b>		
12	LSBP-C-1	BAYPOINT SITE PLAN
13	LSBP-A-1	BAYPOINT LS EXTERIOR ELEV.
14	LSBP-A-2	BAYPOINT LS SCHEDULE
15	LSBP-A-3	BAYPOINT LS WALL SECTION
16	LSBP-EH-1	BAYPOINT LS LIGHTING & HVAC
<b>TYPICAL SHEETS</b>		
17	E-1	ONE-LINE DIAGRAM
18	H-1	HVAC SCHEDULE
<b>DETAILS</b>		
19	D-1	DETAILS



**LOCALITY MAP**

NO.	DATE	DESCRIPTION
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### ABBREVIATIONS

A	AIR (PLANT UTILITY)
AL	ALUMINUM
BRG.EL	BEARING ELEVATION
CHWR	CHILLED WATER RETURN GRILLED
CHWS	CHILLED WATER SUPPLY
CL	CENTER LINE
CO	CLEAN OUT
CONC.	CONCRETE
CONTR. JOINT	CONTROL JOINT
CMP	CORRUGATED METAL PIPE
CHV	COLD WATER
CMU	CONCRETE MASONRY UNIT
D	DECK
DOT	DECK
D.I.	DUCTILE IRON
DPS	DUCTILE IRON PIPE SIZE
DS	DIGESTED SLUDGE
EL	ELEVATION
ELEC.	ELECTRICAL
E.S.	EACH SIDE
EXIST	EXISTING
E.W.	EACH WAY
F.F.E.L	FINISHED FLOOR ELEVATION
FM	FORCE MAIN
G	NATURAL GAS
GALV.	GALVANIZED
HW	HOT WATER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
INSUL.	INSULATION
OC	ON CENTER
PD	PLANT DRAIN
PL	PLATE
RD	ROOF DRAIN
RDCR	REDUCER
R.O.	ROUGH OPENING
SAN	SANITARY
SE	SECONDARY EFFLUENT
SS	STORM SEWER
SST	STAINLESS STEEL
T.O.F	TOP OF FOOTING
T.O.W.	TOP OF WALL
V.I.F	VERIFY IN THE FIELD
V	VENT
WAS	WASTE ACTIVATED SLUDGE
WWM	WELDED WIRE MESH
Ø	DIAMETER

### SECTION

INDICATES LETTER AND NUMBER DESIGNATION OF SECTION (SEE DRAWING)

INDICATES DRAWING WHERE SECTION IS TAKEN (ON SAME DRAWING)

INDICATES LETTER DESIGNATION OF SECTION

INDICATES SECTION OF SECTION OUT

### SECTION DESIGNATION

PROJECT DETAIL NUMBERING DESIGNATION

CIVIL	100 THRU 199
MECHANICAL	200 THRU 299
ELECTRICAL	300 THRU 399
MECHANICAL	400 THRU 499
M.E.C.	500 THRU 599
M.E.C.	600 THRU 699
ELECTRICAL	700 THRU 799

ON DRAWING WHERE DETAIL IS TAKEN: (200)

ON DRAWING WHERE DETAIL IS SHOWN: (311)

### PIPE IDENTIFICATION

PF	FIRE PROTECTION
PW	POTABLE WATER
XH	SANITARY
WS	SERVICE WATER
XW	WASTE WATER
SS	STORM SEWER
FM	FORCE MAIN
S	SANITARY SEWER
W	WATER MAIN

WETLAND: + + + + +

REMOVAL: [Cross-hatched box]

CURVE DATA: R = RADIUS, L = LENGTH, Δ = DELTA, ST = SEMITANGENT

### CIVIL LEGEND

EXISTING	PROPOSED	FORCE MAIN	BITUMINOUS CONCRETE PAVEMENT
EXISTING	PROPOSED	SANITARY SEWER AND MANHOLE	GRAVEL SHOULDER
EXISTING	PROPOSED	WATER MAIN, HYDRANT AND VALVE	CONCRETE WALK
EXISTING	PROPOSED	GAS MAIN	CONTROL POINT
EXISTING	PROPOSED	UNDERGROUND TELEPHONE CABLE	BENCHMARK
EXISTING	PROPOSED	UNDERGROUND ELECTRIC CABLE	EXISTING GRADE } IN PROFILE
EXISTING	PROPOSED	EDGE OF CONCRETE	ESTABLISHED GRADE }
EXISTING	PROPOSED	EDGE OF BITUMINOUS PAVEMENT	RAILROAD TRACKS
EXISTING	PROPOSED	CONTOUR LINE	SIGN
EXISTING	PROPOSED	€ STATIONING	PROPERTY LINE
EXISTING	PROPOSED	ROAD	RIGHT-OF-WAY LINE
EXISTING	PROPOSED	CULVERT	EASEMENT LINE
EXISTING	PROPOSED	STORMWATER INLET	BASELINE
EXISTING	PROPOSED	ELECTRICAL MANHOLE	SURVEY REFERENCE LINE
EXISTING	PROPOSED	ELECTRICAL HANDHOLE	CHAIN-LINK RAILING
EXISTING	PROPOSED	AREA-LIGHTING BASE	POST OR GUARD POST
EXISTING	PROPOSED	DRAINAGE WAY OR DITCH	TREE REMOVAL
EXISTING	PROPOSED	MATCH LINE AND BREAK LINE	WOODED AREA
EXISTING	PROPOSED	ALUMINUM HANDRAIL	RESTORATION TOPSOIL W/ SEED
EXISTING	PROPOSED	STRUCTURE	ABANDONED PIPES
EXISTING	PROPOSED	FENCE	PIPES TO BE ABANDONED
EXISTING	PROPOSED	POWER POLE WITH CULY SUPPORT	BORING LOCATION
EXISTING	PROPOSED		PROPOSED SILT FENCE

### NOTES:

- THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE USED ON THE PLANS.
- EXISTING PIPING, EQUIPMENT, STRUCTURE, AND TOPOGRAPHY ARE SHOWN SCREENED AND/OR LIGHT LINED. NEW PIPING, EQUIPMENT, STRUCTURE, AND FINISHED GRADE ARE SHOWN HEAVY-LINED.













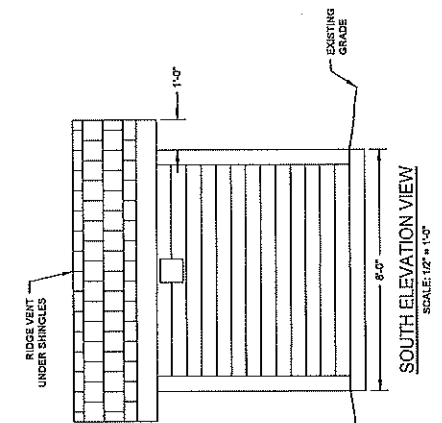
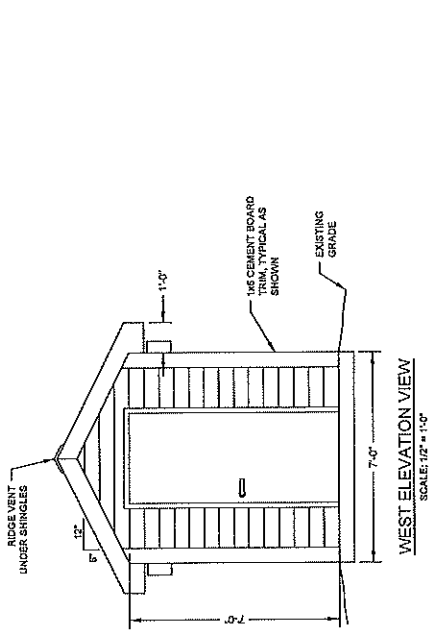
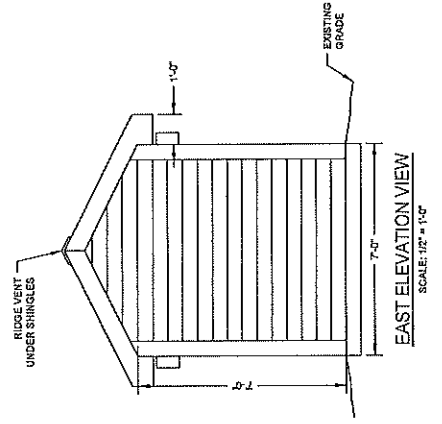
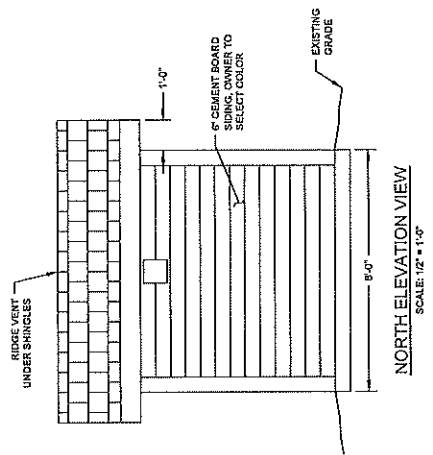


NO.	DATE	DESCRIPTION



SCALE: 1/2" = 1'-0"  
 1/4" = 1'-0"  
 1/8" = 1'-0"  
 1/16" = 1'-0"

OWNER: HERITAGE IS
EXTERIOR ELEV.
DATE: 10/11/11
DESIGNED BY: JAK
DRAWN BY: JAK
CHECKED BY: JAK
PROJECT NO: 10.0210.01
DRAWING NO: LSH-A-1







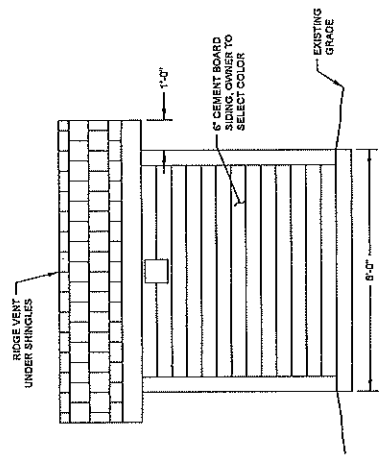




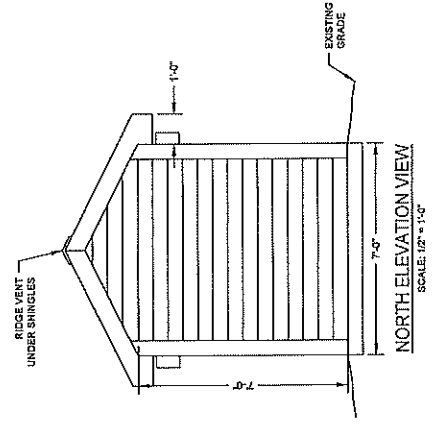




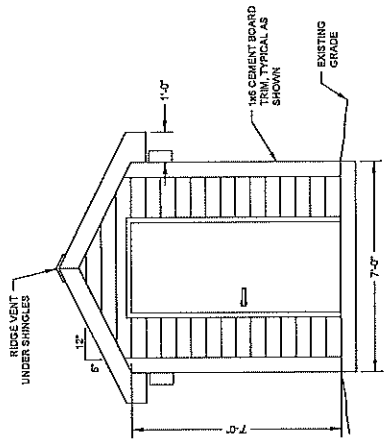
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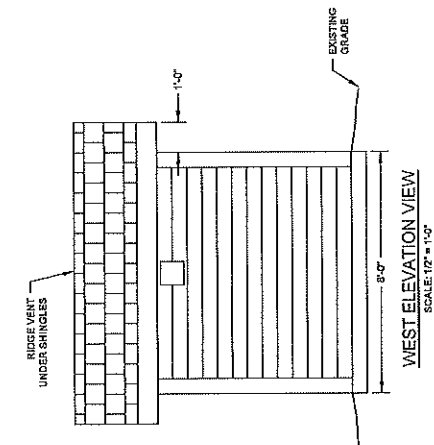
**EAST ELEVATION VIEW**  
 SCALE: 1/2" = 1'-0"



**NORTH ELEVATION VIEW**  
 SCALE: 1/2" = 1'-0"



**SOUTH ELEVATION VIEW**  
 SCALE: 1/2" = 1'-0"



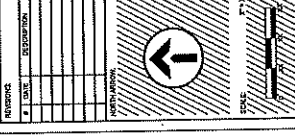
**WEST ELEVATION VIEW**  
 SCALE: 1/2" = 1'-0"







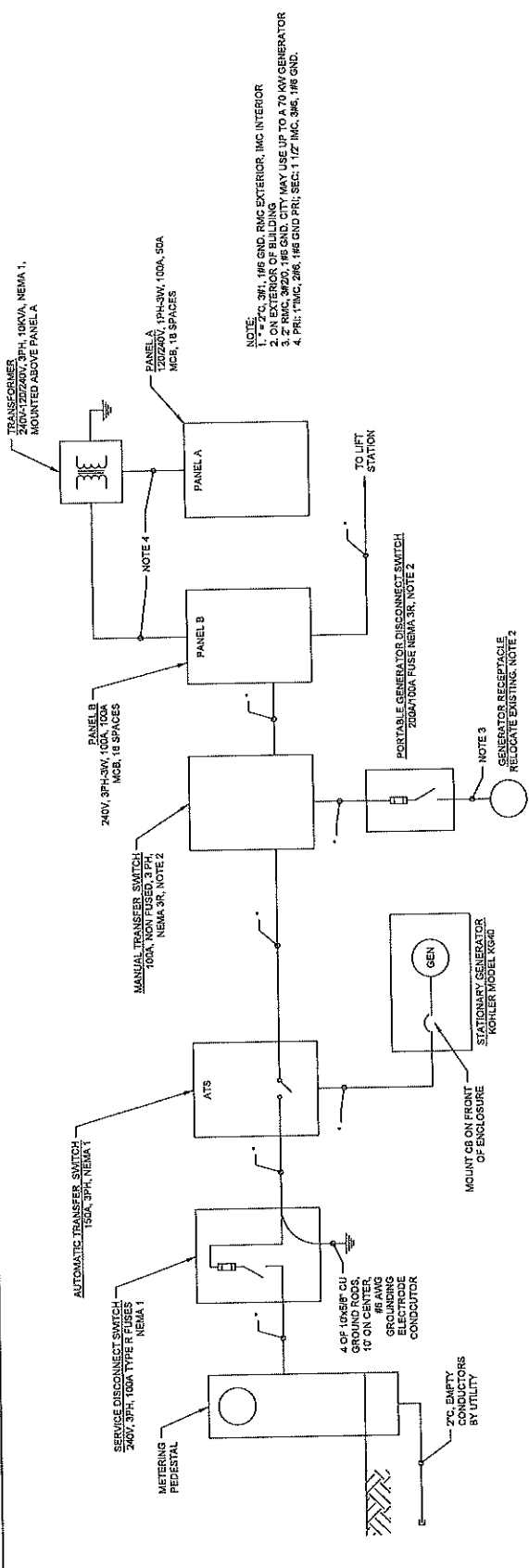




NO.	DATE	REVISION

ONE-LINE DIAGRAM

PROJECT NO: 18.0220.01  
 DRAWING NO: E-1  
 SHEET NUMBER: 17



NOTE:  
 1. \* 27C, 3PH, 196 GND, RMC EXTERIOR, IMC INTERIOR  
 2. ON EXTERIOR OR IMC, ALL WIRING SHALL BE GND. CITY MAY USE UP TO A 70 KW GENERATOR  
 3. ALL WIRING SHALL BE GND. CITY MAY USE UP TO A 70 KW GENERATOR  
 4. PRI: 110V, 200, 196 GND PRI; SEC: 1 1/2" IMC, 3M, 196 GND.

PANEL	CIRCUIT DESCRIPTION	BUS AMPS	100	240	VOLTAGE	120/240	PHASE	T	WIRE	MAIN BREAKER	AMPS	MOUNTING SURFACE	REMARKS
A	MAIN BREAKER	50/2	1	1	1	1	1	1	1	1	1	1	1
A	BATTERY CHARGER	20/1	2	2	2	2	2	2	2	2	2	2	2
A	BUILDING VENTILATION FAN	20/1	3	3	3	3	3	3	3	3	3	3	3
A	SMOKE DETECTOR	15/1	4	4	4	4	4	4	4	4	4	4	4
A	SPACE	---	5	5	5	5	5	5	5	5	5	5	5
A	SPACE	---	6	6	6	6	6	6	6	6	6	6	6
A	SPACE	---	7	7	7	7	7	7	7	7	7	7	7
A	SPACE	---	8	8	8	8	8	8	8	8	8	8	8
A	SPACE	---	9	9	9	9	9	9	9	9	9	9	9
A	SPACE	---	10	10	10	10	10	10	10	10	10	10	10
A	SPACE	---	11	11	11	11	11	11	11	11	11	11	11
A	SPACE	---	12	12	12	12	12	12	12	12	12	12	12
A	SPACE	---	13	13	13	13	13	13	13	13	13	13	13
A	SPACE	---	14	14	14	14	14	14	14	14	14	14	14
A	SPACE	---	15	15	15	15	15	15	15	15	15	15	15
A	SPACE	---	16	16	16	16	16	16	16	16	16	16	16
A	SPACE	---	17	17	17	17	17	17	17	17	17	17	17

ONE-LINE DIAGRAM

From	To	Conduit & Cable	Remarks
Panel A	2 Lights	3/4" C, 2#12, 1#12 GND	Switch by door
Panel A	Vent Fan	3/4" C, 2#12, 1#12 GND	Switch by door
Vent Fan	T-Stat	1/2" C, 2#14, 1#14 GND	T-Stat on opposite side of room. Reverse before T-STAT
Panel A	Block Heater	3/4" C, 2#12, 1#12 GND	Route via floor slab.
Panel A	Battery Charger	3/4" C, 2#12, 1#12 GND	Route via floor slab.
Panel A	Receptacles	3/4" C, 2#12, 1#12 GND	(G) 2 receptacles
Generator	SCADA in Lift Sta. See	1-1/2" C, 10 #14	Signals (unpower contacted recept M) 1. Generator start/fail 2. Generator fail 3. Smoke/Fire in building 4. Red Alarm light from Lift Sta. 5. Spare
Smoke Detector	JB for SCADA Signals	1/2" C, 2#14	See signal list above
Smoke JB in Bluff	Alarm Light	3/4" C, 2#12, 1#12 GND	Power for light via SCADA signal wiring. See SCADA list above.
Panel A	Generator	3/4" C, 2#14, 1#14 GND	POWER
Generator	Inlet & Exhaust Louvers	3/4" C, 2#12, 1#12 GND	Contact at Gen to control, 4th floor slab to both Inlets MDD's
IEH	Panel B	1" C, 3#10, 1#10 GND	Integral T-STAT
Panel A	LED Wall Pre-Light	3/4" C, 2#12, 1#12 GND	Wall switch to be disabled. PE on lights.

NOTE: ROUTE FROM BUILDING TO LOWER LEVEL IN LIFT STATION. PROVIDE JB ADJACENT TO SCADA IN LIFT STATION. SCADA CONNECTION BY OTHERS. ID WIRING. TERMINATE SPARE IN JB IN BUILDING AND JB AT SCADA. APPROXIMATE 40' OF CONDUIT AND WIRING IN LIFT STATION. ROUTE PARALLEL TO EXISTING CONDUIT IN LIFT STATION.

MISCELLANEOUS WIRING REQUIREMENTS

PANEL	BUS AMPS	100	240	VOLTAGE	120/240	PHASE	T	WIRE	MAIN BREAKER	AMPS	MOUNTING SURFACE	REMARKS
B	100/2	1	1	1	1	1	1	1	1	1	1	1
B	100/3	2	2	2	2	2	2	2	2	2	2	2
B	100/4	3	3	3	3	3	3	3	3	3	3	3
B	100/5	4	4	4	4	4	4	4	4	4	4	4
B	100/6	5	5	5	5	5	5	5	5	5	5	5
B	100/7	6	6	6	6	6	6	6	6	6	6	6
B	100/8	7	7	7	7	7	7	7	7	7	7	7
B	100/9	8	8	8	8	8	8	8	8	8	8	8
B	100/10	9	9	9	9	9	9	9	9	9	9	9
B	100/11	10	10	10	10	10	10	10	10	10	10	10
B	100/12	11	11	11	11	11	11	11	11	11	11	11
B	100/13	12	12	12	12	12	12	12	12	12	12	12
B	100/14	13	13	13	13	13	13	13	13	13	13	13
B	100/15	14	14	14	14	14	14	14	14	14	14	14
B	100/16	15	15	15	15	15	15	15	15	15	15	15
B	100/17	16	16	16	16	16	16	16	16	16	16	16
B	100/18	17	17	17	17	17	17	17	17	17	17	17

NOTE: ROUTE FROM BUILDING TO LOWER LEVEL IN LIFT STATION. PROVIDE JB ADJACENT TO SCADA IN LIFT STATION. SCADA CONNECTION BY OTHERS. ID WIRING. TERMINATE SPARE IN JB IN BUILDING AND JB AT SCADA. APPROXIMATE 40' OF CONDUIT AND WIRING IN LIFT STATION. ROUTE PARALLEL TO EXISTING CONDUIT IN LIFT STATION.



