

Permit Reviews

City of Waukesha

Permit Number: 16-02259

Description: Garage

Applied: 10/24/2016

Approved:

Issued:

Finalized:

Site Address: 120 RANDALL ST

City, State Zip Code: WAUKESHA, WI 53188

Status: IN PROGRESS

Applicant: K MATTHEW E FORBES & NICOLE KIND

Parent Permit:

Owner: <NONE>

Parent Project:

Contractor: GRIFFITHS, J - BUILDING-RESIDENTIAL

Details:

DESCRIPTION - Garage

COMMENTS - owner - 920-242-4138 CELL

tschmidt@jgriffiths.com.
forbesm@kmsd.edu.

LIST OF REVIEWS

SENT DATE	RETURNED DATE	DUE DATE	TYPE	CONTACT	STATUS	REMARKS
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Review Group:

10/24/2016	11/4/2016	10/24/2016	BUILDING DEPARTMENT REVIEW	Angie Grover	CONDITIONALLY APPROVED	
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Notes:

Your recent application for building permit has been CONDITIONALLY APPROVED subject to the following limitations and/or requirements listed below. The owner, as defined in Chapter 101.01(10), Wisconsin Statutes is responsible for compliance with all code requirements.

From the tables that you provided you can use a 2 x 6, 16 OC but again this would be a select grade of lumber. You also can use 2x8, 24 OC but you are limited to using the Hem Fir species. You will have to provide a grade stamp at the time of inspection.

- All work in accordance with the City of Waukesha MCO chapter 16.19 and chapter 22.
- Call in advance to schedule footing, rough, and final inspections. All conditions of approval shall be satisfied before or during construction.
- UDC code available at: https://docs.legis.wisconsin.gov/code/admin_code/sps/safety_and_buildings_and_environment/320_325/321.pdf

This conditional approval does not constitute a guarantee or endorsement that the construction documents are free of design defects or omissions



Table 9.1

SNOW REGION, LIGHT ROOF COVERING, DRYWALL, NO ATTIC SPACE, 30 PSF LIVE, 10 PSF DEAD

Rafters

Maximum Allowable Horizontal Span (ft.-in.)

Species	Spacing (in.)	2 x 6			2 x 8			2 x 10			2 x 12		
		Sel.	No. 1/	No. 2	Sel.	No. 1/	No. 2	Sel.	No. 1/	No. 2	Sel.	No. 1/	No. 2
Spruce-Pine-Fir	12	13-3	12-11	10-5	17-5	17-0	13-2	22-3	21-4	16-1	27-1	24-8	18-8
	16	12-0	11-9	9-0	15-10	15-1	11-5	20-2	18-5	13-11	24-7	21-5	16-2
	19.2	11-4	10-11	8-3	14-11	13-9	10-5	19-0	16-10	12-9	23-1	19-6	14-9
	24	10-6	9-9	7-4	13-10	12-4	9-4	17-8	15-1	11-5	20-11	17-6	13-2
D.Fir-L(N)	12	14-4	13-6	10-2	18-10	17-2	12-10	24-1	21-0	15-8	29-3	24-4	18-2
	16	13-0	11-9	8-9	17-2	14-11	11-2	21-10	18-2	13-7	26-7	21-1	15-9
	19.2	12-3	10-9	8-0	16-1	13-7	10-2	20-7	16-7	12-5	24-3	19-3	14-5
	24	11-4	9-7	7-2	15-0	12-2	9-1	18-9	14-10	11-1	21-8	17-3	12-10
Hem-Fir(N)	12	13-9	13-6	11-2	18-2	17-10	14-2	23-2	22-9	17-3	28-2	26-5	20-0
	16	12-6	12-3	9-8	16-6	16-2	12-3	21-1	19-9	14-11	25-7	22-10	17-4
	19.2	11-9	11-7	8-10	15-6	14-9	11-2	19-10	18-0	13-8	23-10	20-11	15-10
	24	10-11	10-5	7-11	14-5	13-2	10-0	18-4	16-1	12-3	21-3	18-8	14-2
Northern Species	12	11-11	11-5	8-9	15-9	14-5	11-0	20-1	17-8	13-6	24-5	20-5	15-7
	16	10-10	9-10	7-7	14-3	12-6	9-7	18-3	15-3	11-8	22-2	17-9	13-6
	19.2	10-2	9-0	6-11	13-5	11-5	8-9	17-2	13-11	10-8	20-10	16-2	12-4
	24	9-6	8-1	6-2	12-6	10-3	7-10	15-11	12-6	9-6	18-8	14-6	11-1

Table 9.2

SNOW REGION, LIGHT ROOF COVERING, DRYWALL, NO ATTIC SPACE, 30 PSF LIVE, 10 PSF DEAD

Rafters

Maximum Allowable Horizontal Span (ft.-in.)

Species	Spacing (in.)	2 x 6			2 x 8			2 x 10			2 x 12		
		2400f	2250f	2100f	2400f	2250f	2100f	2400f	2250f	2100f	2400f	2250f	2100f
MSR Lumber	12	14-7	14-4	14-1	19-2	18-10	18-6	24-6	24-1	23-8	29-9	29-3	28-9
	16	13-3	13-0	12-9	17-5	17-2	16-10	22-3	21-10	21-6	27-1	26-7	26-1
	19.2	12-5	12-3	12-0	16-5	16-1	15-10	20-11	20-7	20-2	25-5	25-0	24-7
	24	11-7	11-4	11-2	15-3	15-0	14-8	19-5	19-1	18-9	23-7	23-3	22-10
Species	Spacing (in.)	1950f			1800f			1650f			1500f		
		17E	16E	15E	17E	16E	15E	17E	16E	15E	17E	16E	15E
MSR Lumber	12	13-9	13-6	13-3	18-2	17-10	17-5	23-2	22-9	22-3	28-2	27-8	27-1
	16	12-6	12-3	12-0	16-6	16-2	15-10	21-1	20-8	20-2	25-7	25-1	24-7
	19.2	11-9	11-7	11-4	15-6	15-3	14-11	19-10	19-5	19-0	24-1	23-7	23-1
	24	10-11	10-9	10-6	14-5	14-2	13-10	18-5	18-0	17-8	22-5	21-11	21-6

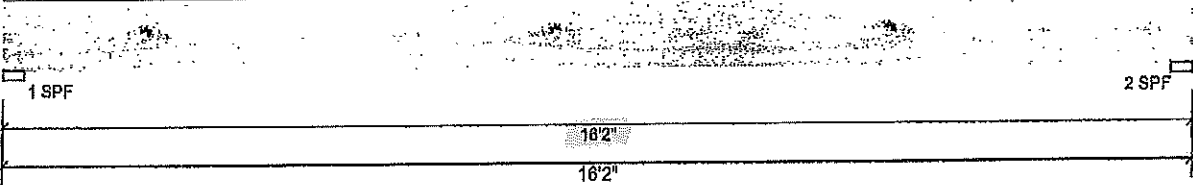
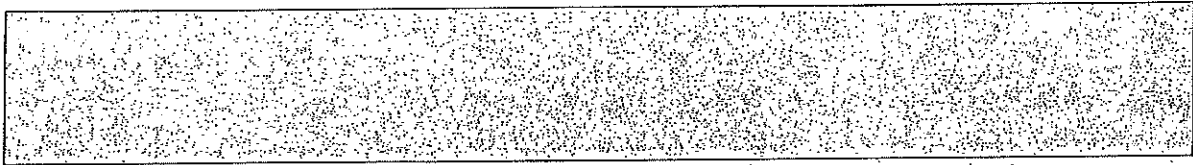
Rafters

MSR 1650
Maximum

12'0" Horizontal
Span 16" O.C.
Spacing

The availability of sizes and grades should be confirmed before specifying.

Project Name:		Job#:		Client	Shipping
J D Griffith		D FIR-L #2		Quantity 1 (2pcs.)	Description: o h door headers
2.000" X 12.000"		2-Ply - PASSED			



Type:	Girder	Application:	Roof
Piles:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	ASD
Deflection LL:	480	Building Code:	IBC/IRC 2012
Deflection TL:	240	Load Sharing:	No
Importance:	Normal	Deck:	Not Checked
Temperature:	Temp <= 100°F	Vibration:	Not Checked

Reactions					
Brg	Live	Dead	Snow	Wind	Const
1	0	808	0	0	0
2	0	808	0	0	0

Bearings					
Bearing	Input Length	In Analysis	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	3.500"	1.500"	42%	808 / 0	808 Uniform D
2 - SPF	3.500"	1.500"	42%	808 / 0	808 Uniform D

Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case
Moment	3084 ft-lb	8'1"	4271 ft-lb	0.722 (72%)	D	Uniform
Unbraced	3084 ft-lb	8'1"	4158 ft-lb	0.742 (74%)	D	Uniform
Shear	692 lb	1'2"	3645 lb	0.190 (19%)	D	Uniform
LL Defl Inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl Inch	0.241 (L/784)	8'1 1/16"	0.785 (L/240)	0.310 (31%)	D	Uniform

Design OK.

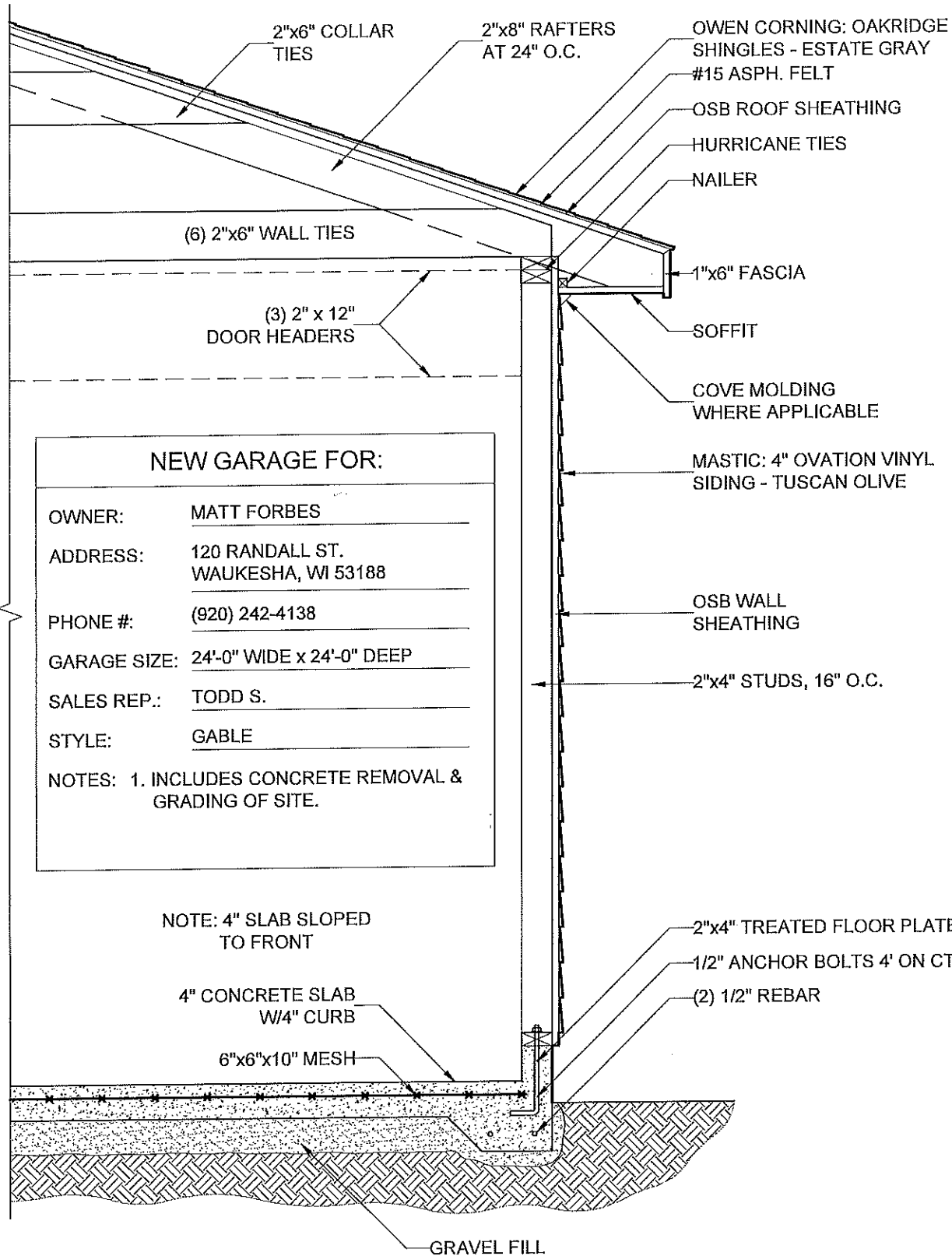
Design Notes

- Girders are designed to be supported on the bottom edge only.
- Multiple piles must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all piles.
- Top unbraced.
- Bottom unbraced.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		1-0-0	Top	100 PSF	0 PSF	0 PSF	0 PSF	0 PSF	

Wisconsin Building Supply
W232 N 5700 HWY 74, WI
US
53089

L & Ana Files
W232 N 5700 HWY 74
W232 N 5700 HWY 74
53089



NEW GARAGE FOR:

OWNER: MATT FORBES

ADDRESS: 120 RANDALL ST.
WAUKESHA, WI 53188

PHONE #: (920) 242-4138

GARAGE SIZE: 24'-0" WIDE x 24'-0" DEEP

SALES REP.: TODD S.

STYLE: GABLE

NOTES: 1. INCLUDES CONCRETE REMOVAL & GRADING OF SITE.

MATT FORBES RESIDENCE

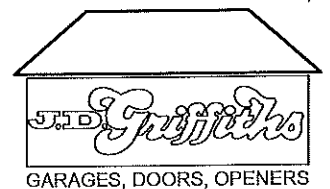
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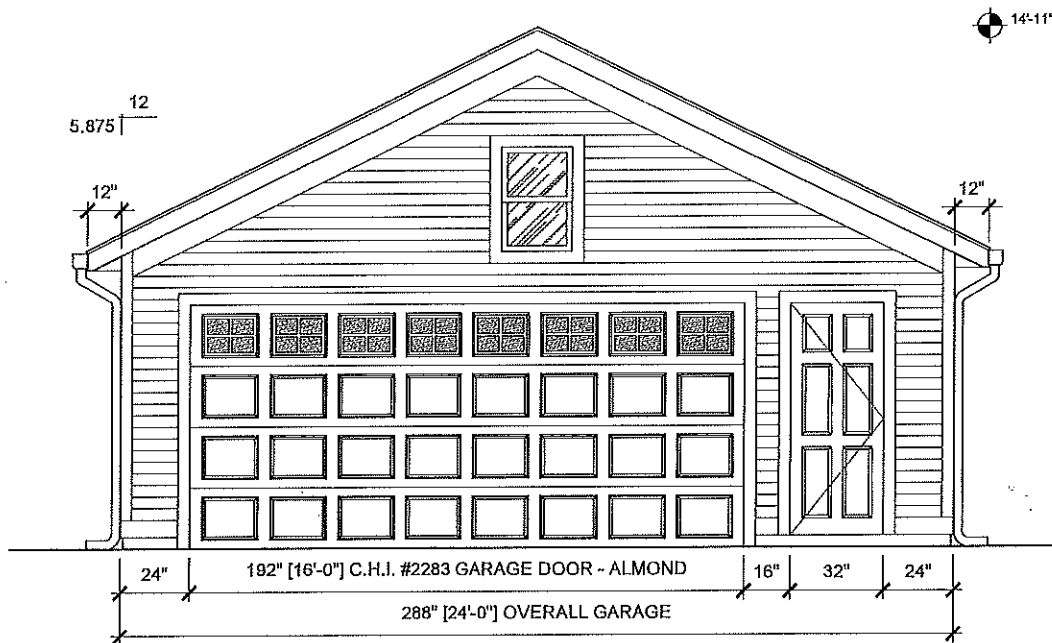
SCALE: 3/4"=1'-0"

DATE:
10.18.2016

REVISED:
10.28.2016

PAGE: 6 OF 6

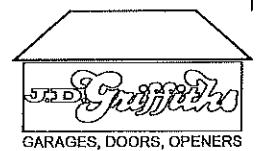


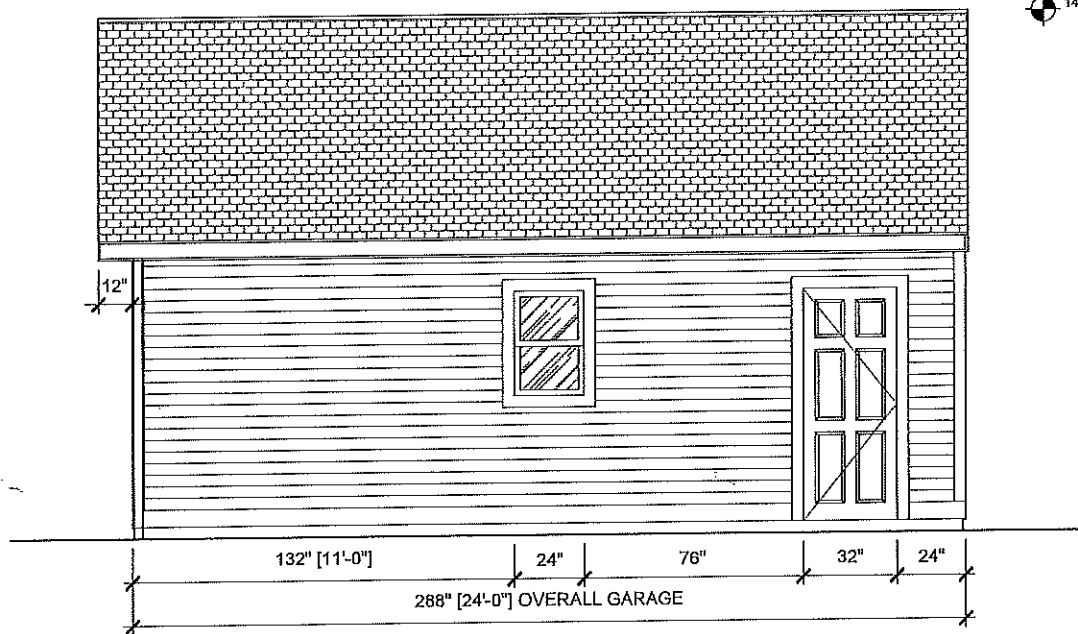


MATT FORBES RESIDENCE

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

DATE: 10.18.2016	REVISED: 10.28.2016
PAGE: 2 OF 6	





14'-11" ELE.

MATT FORBES RESIDENCE

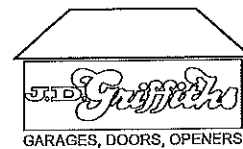
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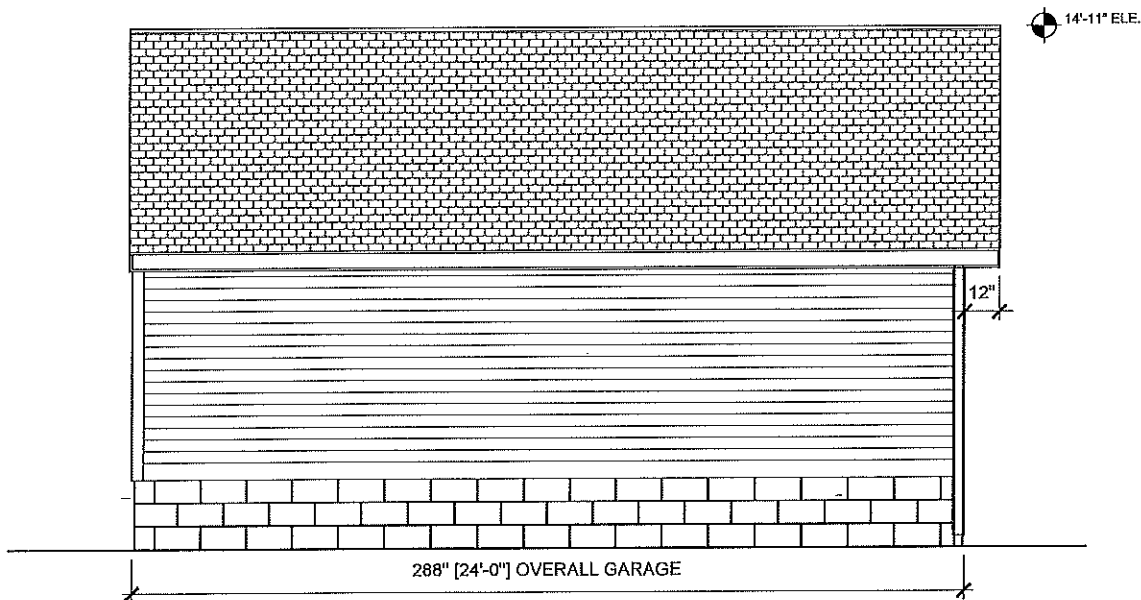
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DATE:
10.18.2016

REVISED:
10.28.2016

PAGE: 3 OF 6





MATT FORBES RESIDENCE

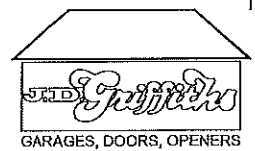
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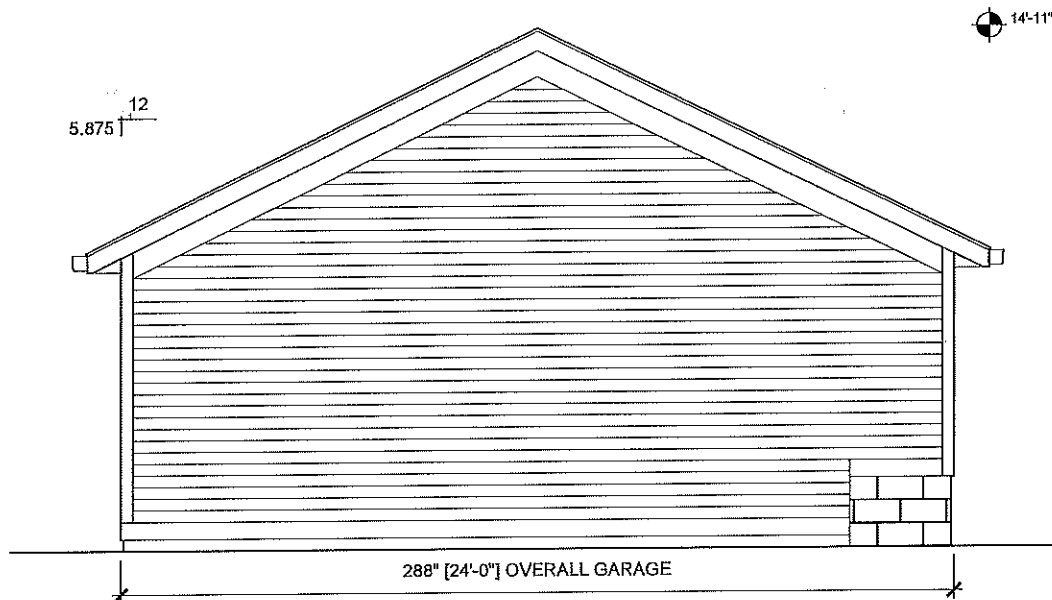
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REVISED:
10.28.2016

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

PAGE: 5 OF 6





MATT FORBES RESIDENCE

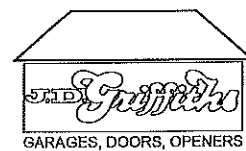
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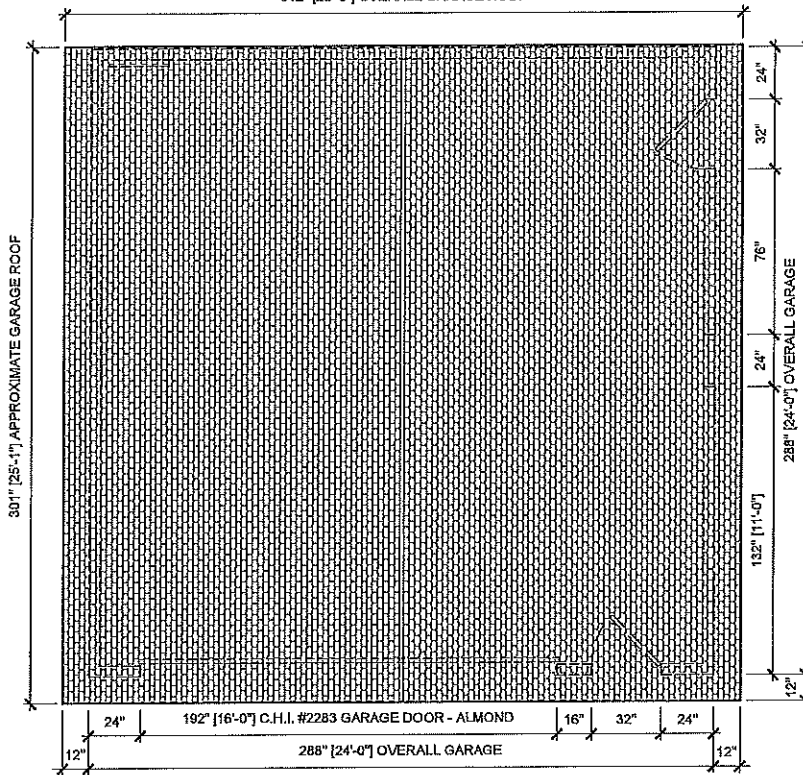
REVISED:
10.28.2016

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

PAGE: 4 OF 8



312" [26'-0"] OVERALL GARAGE ROOF



NOTE: SEE SECTION ON PAGE 6
FOR TYPICAL DETAILS

MATT FORBES RESIDENCE

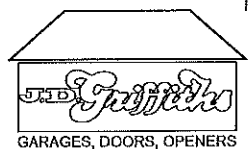
PLAN VIEW

DATE:
10.18.2016

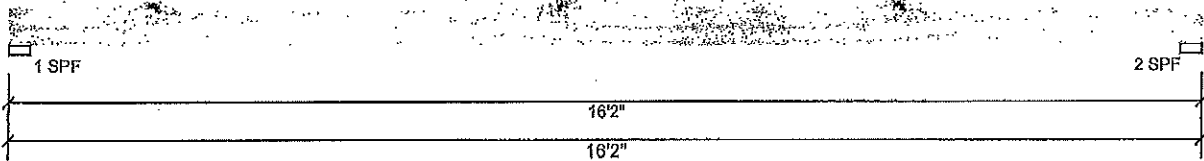
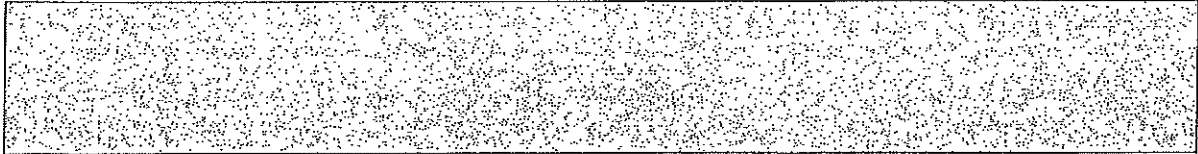
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10.28.2016

SCALE: N.T.S.

PAGE: 1 OF 6



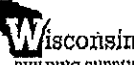
Project Name:		Client		Shipping	
Job#:		Quantity 1 (3pcs.)		Description: a h door headers	
J D Griffith		D FIR-L #2 2.000" X 12.000" 3-Ply - PASSED			



Type:	Glrder	Application:	Roof	Reactions					
Piles:	3	Slope:	0/12	Brg	Live	Dead	Snow	Wind	Const
Moisture Condition:	Dry	Design Method:	ASD	1	0	808	0	0	0
Deflection LL:	480	Building Code:	IBC/RC 2012	2	0	808	0	0	0
Deflection TL:	240	Load Sharing:	Yes	Bearings					
Importance:	Normal	Deck:	Not Checked	Bearing Input	In	Cap. React	D/L lb	Total	Ld. Case
Temperature:	Temp <= 100°F	Vibration:	Not Checked	Length	Analysis				Ld. Comb.
Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case			
Moment	3084 ft-lb	8'1"	7368 ft-lb	0.419 (42%)	D	Uniform	1 - SPF 3,500"	1,500"	28%
Unbraced	3084 ft-lb	8'1"	7287 ft-lb	0.423 (42%)	D	Uniform	2 - SPF 3,500"	1,500"	28%
Shear	692 lb	15'	5468 lb	0.127 (13%)	D	Uniform	808 / 0	808	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)			808 / 0	808	Uniform
TL Defl inch	0.160 (L/1175)	8'1 1/16"	0.785 (L/240)	0.200 (20%)	D	Uniform			
Design OK.									
Design Notes									
1 Glrders are designed to be supported on the bottom edge only.									
2 Multiple piles must be fastened together as per manufacturer's details.									
3 Top loads must be supported equally by all piles.									
4 Top unbraced.									
5 Bottom unbraced.									

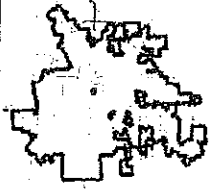
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		1-0-0	Top	100 PSF	0 PSF	0 PSF	0 PSF	0 PSF	

Wisconsin Building Supply
 W232 N 5700 HWY 74, WI
 US
 53089


 LE Ann Price
 W232 N 5700 HWY 74
 SUITE 101
 53089-1011

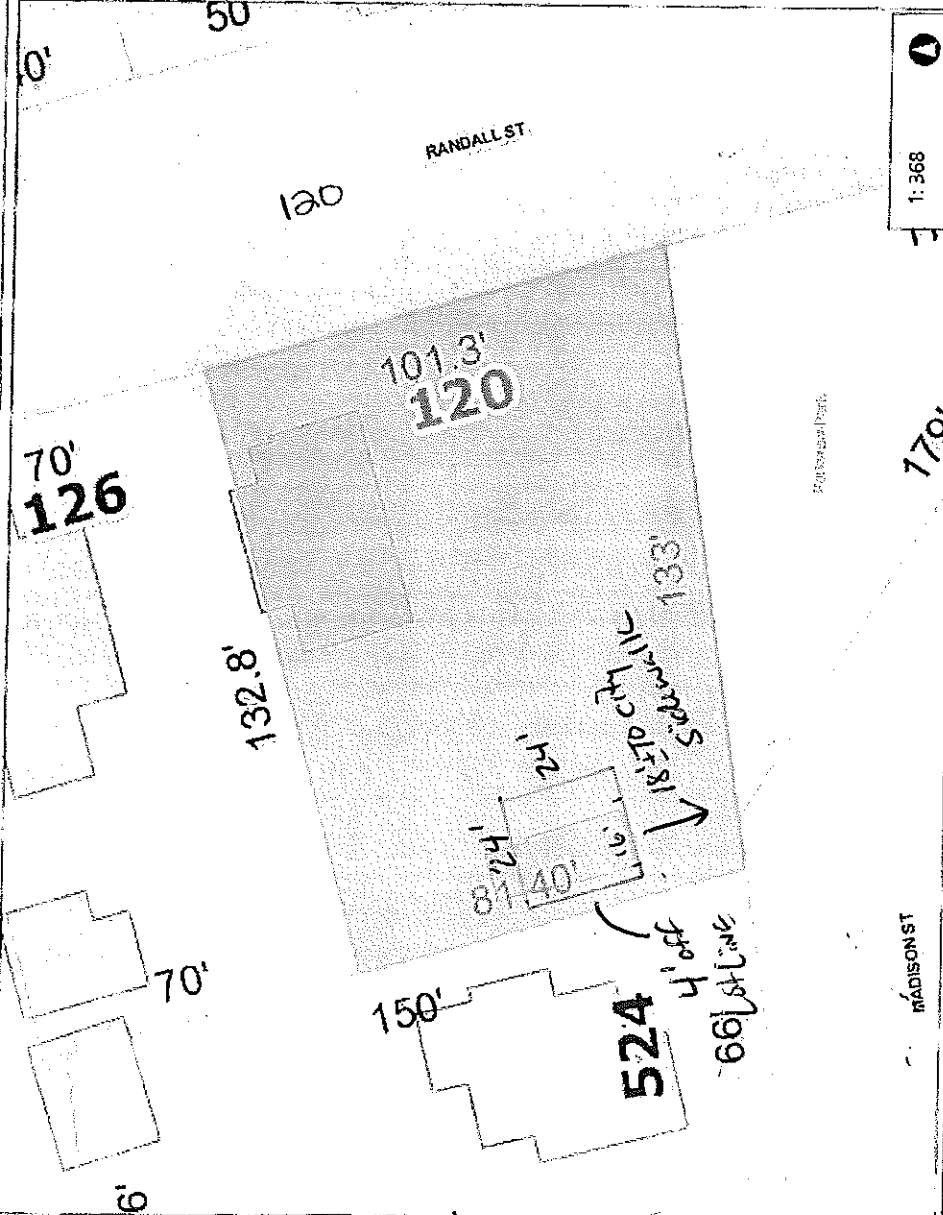
BUILDING SUPPLY

City of Waukesha Property Map



- Legend**
- Parcels
 - City Limits
 - Railroads
 - Buildings
 - Water Bodies
 - Landmarks
 - Cemetery
 - County
 - Municipal
 - Hospital
 - Parks
 - School
 - State/Federal

Notes:



This map is a user generated static output from an internet mapping site and is for reference only. The data found on this site is considered to be correct, but should not be used for engineering or survey applications without verifying the information from officially recorded sources.

Print Date: 9/30/2015
City of Waukesha GIS

1" = 40'