



GREEN LAKE COUNTY

571 County Road A, Green Lake, WI 54941

Original Post Date: 09/25/19

Amended Post Date: 09/26/19

Amended Post Date: 9/30/19

The following documents are included in the packet for the Highway Committee on 10/01/19:

- 1) Amended Agenda
- 2) Minutes of 09/11/19
- 3) ***Bid Results – Shop 2 Storage Building**
- 4) ***Request for Quote for replacement of Domestic Waste Water Tank -Shop 2**
- 5) Storage Building Plans
- 6) 2020 Budget Summary
- 7) 6 Year (2020-2025) Highway Improvement Plan

**** Added domestic waste water tank quotes from Egbert and Kinas.**

****Corrected Page 5 and 6 of Highway Improvement Plan**



GREEN LAKE COUNTY HIGHWAY DEPARTMENT

Office: 920-294-4060
FAX: 920-294-4066

Highway Committee Meeting Notice

***Date: October 01, 2019 Time: 4:00 pm
Green Lake County Government Center, County Board Room
571 County Rd A, Green Lake WI***

***AMENDED AGENDA**

Committee Members

*David Abendroth
Vicki Bernhagen
Dennis Mulder
Robert Schweder
Charlie Wielgosh*

*Becky Pence,
Secretary*

1. Call to Order
2. Certification of Open Meeting Law
3. Pledge of Allegiance
4. Public Comment, 3 minute limit
5. Approval of Minutes 09/11/19
6. Appearances
 - Cardinal Construction may appear regarding bid opening for construction of Highway Storage Building-Shop 2
 - Modern Pole may appear regarding bid opening for construction of Highway Storage Building-Shop 2
7. Highway Storage Building – Shop 2, Bid Results
8. *Request for Quote for replacement of Domestic Waste Water Tank - Shop 2
9. 2020 Budget
10. 6 Year (2020-2025) Highway Improvement Plan
11. Future Meeting Date
 - Regular Meeting November 13, 2019
12. Future Agenda items for action & discussion
13. Adjourn

Kindly arrange to be present, if unable to do so, please notify our office. Sincerely, Becky Pence

Please note: Meeting area is accessible to the physically disabled. Anyone planning to attend who needs visual or Audio assistance, should contact the Highway Office, 920-294-4060 not later than 3 days before date of the meeting.

HIGHWAY COMMITTEE MEETING September 11, 2019

The meeting of the Highway Committee was called to order by Chair Dennis Mulder at 4:00 PM on Wednesday September 11, 2019 in the County Board Room, Green Lake County Government Center, Green Lake, WI. The requirements of the open meeting law were certified as being met. The Pledge of Allegiance was recited.

Present: Dennis Mulder
David Abendroth
Bob Schweder
Charlie Wielgosh

Absent: Vicki Bernhagen

Other County Employees Present: Barry Mashuda, Highway Commissioner; Becky Pence, Administrative Assistant; Cathy Schmit, County Administrator; Harley Reabe, County Board Chair; Dawn Klockow Corporation Counsel; Jason Franke, Highway Superintendent.

Approval of Minutes

Motion/second (Abendroth/Schweder) to approve the minutes of 08/15/19. All ayes. Motion Carried.

Public Comment – None

Driveway Variance, CTH GG Salemville Cheese Cooperative

Commissioner Mashuda explained the purpose and intent of obtaining a driveway variance in order to avoid/reduce accidents. The horizontal distance between the access points is less than 500 feet per §159-16 Spacing and Frequency. Corporate Counsel Klockow explained the statutory requirements of the Highway Committee and the proper procedure to follow prior to approving/disapproving a variance.

Motion/second (Wielgosh/Abendroth) to approve granting the driveway variance on CTH GG in accordance with §159-22. All ayes, Motion Carried.

Financial Reports

The financial reports were reviewed and questions answered.

Update Committee Members on Shop 2 Building Progress

Commissioner Mashuda updated committee members on the progress of the Shop 2 building plans.

Change October Committee Meeting Date from October 9, 2019 to October 1, 2019

Motion/second (Abendroth/Schweder) to approve changing the October committee meeting to October 1, 2019. The time will remain at 4:00. All Ayes. Motion Carried.

2020 Budget

The 2020 Budget was reviewed and questions answered.

Commissioner's Report

The Commissioner's Report was reviewed.

Committee Discussion

Future Committee Meeting Date October 1, 2019

Future Agenda items for discussion and/or action

Adjournment: 4:45 PM

Submitted by,

Becky Pence.
Highway Committee Secretary



REQUEST FOR PURCHASE APPROVAL

Item To Be Purchased:

Department:

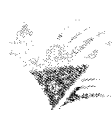
Account Number:

Governing Committee:

Governing Committee Approval Date:

P&I Approval Date:

Reason for Purchase:



CARDINAL
CONSTRUCTION CO., INC.

1183 INDUSTRIAL PARKWAY
FOND DU LAC, WI 54937
PHONE: (920) 922-4446
FAX: (920) 922-1455

General Contractor (Commercial & Industrial) - ESTABLISHED 1980

1183 INDUSTRIAL PARKWAY
FOND DU LAC, WI 54937
PHONE: (920) 922-4446
FAX: (920) 922-1455

September 25, 2019

REVISED BID PROPOSAL

Attn: Barry Mashuda
Green Lake County Highway Commission
570 South Street
Green Lake, WI 54941

RE: Highway Storage Bldg. - Manchester

Dear Barry,

Cardinal Construction Co., Inc. will provide necessary labor, materials, and equipment to perform concrete and building construction work for the highway storage building located N1906 STH 73, Manchester, WI. (per MM Engineering Services drawings dated 5/2/19)

Scope Of Work

Excavation

- Excavate for foundation footings and walls
- Backfill
- Place gravel and compact for building floors and approach slabs

Concrete and Carpentry

- Frame and pour foundation footings
- Frame and pour foundation frost walls
- Install all required reinforcing steel
- Install foam insulation
- Frame and pour exterior concrete approaches
- Frame and pour interior concrete slab
- Finish, sawcut and seal all concrete
- Provide labor and equipment to erect building structure (building materials to be furnished by Green Lake County)

Overhead Doors

- Supply and install (3) 18' x 14' EZ Therm sectional doors
- Supply and install (2) 12' x 14' EZ Therm sectional doors
- Supply and install (5) Liftmaster T50 Trolley operators
- Install (3) button wall stations and photo eyes

TEAMWORK

Divides the Task - Doubles the Success

Overhead Door Clarification

- All material and labor is included in this proposal for overhead doors. Doors will be under warranty.
- Overhead door company will not install another manufacture's doors and operators due to warranty issues

Schedule Clarification

- Excavation in concrete foundations to be completed mid October/November, 2019. Building construction to begin December 16, 2019, due to back log. If this schedule does not work for Green Lake County, consider this proposal VOID.

TOTAL PRICE – complete in accordance with above specifications.....\$162,368.00
(including Wisconsin State and County taxes, F.O.B. job site)

Option #1

- Remove sales tax from concrete and rebar materials..... **DEDUCT: <\$1,348.00>**

Option #2

- Remove excavation, backfill and gravel materials..... **DEDUCT: <\$20,500.00>**

Option #3

- Remove overhead doors, operators and install labor..... **DEDUCT: <\$15,450.00>**

Option #4

- Add Tyvek or equal building wrap to the outside walls, 8” fiberglass batt insulation, 4-mil vapor barrier to the inside of the wall, R-25..... **ADD: \$4,400.00**

Option #5

- Add 14” of blown fiberglass insulation and 4-mil vapor barrier for the ceilings, R-40..... **ADD: \$5,200.00**

Payment Terms are Net 30 Days. Accounts **PAST DUE** shall be subject to interest charge of 1-1/2% per month equal to the ANNUAL INTEREST RATE of 18% per year. Cardinal Construction Co., Inc. may, on three (3) days written notice to Owner, terminate this Contract before completion if:

- A. Owner is default on any payment for a period of ten (10) days of more; or,
- B. The work is stopped by the Order of the Owner, Owner’s architect or engineer, or any court or public authority.

On such termination, Cardinal Construction Co., Inc. may recover payment for all work completed and for any loss sustained for materials, equipment, tools, labor or machinery to the extent of actual loss thereon plus reasonable profit. Cardinal Construction Co., Inc. shall have the right to collect amounts due hereunder pursuant to all remedies available by law. To the extent not prohibited by law, Owner shall pay all reasonable costs and expenses of collection, including attorney’s fees and other legal expenses, incurred by Cardinal Construction Co., Inc. in the enforcement of this contract.

TEAMWORK
Divides the Task – Doubles the Success

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from the above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents, or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers' Compensation Insurance. This proposal is valid for 30 days. Thereafter, it is subject to change due to market fluctuation.

If this proposal is accepted, the parties agree to execute a construction contract that will incorporate the terms of this proposal prior to any work on the project.


Clerical errors subject to correction.

*****CONSTRUCTION LIEN LAW NOTICE – PRIME CONTRACTOR*****

AS REQUIRED BY THE WISCONSIN CONSTRUCTION LIEN LAW, BUILDER HEREBY NOTIFIES OWNER THAT PERSONS OR COMPANIES FURNISHING LABOR OR MATERIALS FOR THE CONSTRUCTION OF OWNER'S LAND MAY HAVE LIEN RIGHTS ON OWNER'S LAND AND BUILDINGS IF NOT PAID. THOSE ENTITLED TO LIEN RIGHTS, IN ADDITION TO THE UNDERSIGNED BUILDER, ARE THOSE WHO CONTRACT DIRECTLY WITH THE OWNER OR THOSE WHO GIVE THE OWNER NOTICE WITHIN **60 DAYS** AFTER THEY FIRST FURNISH LABOR OR MATERIALS FOR THE CONSTRUCTION. ACCORDINGLY, OWNER PROBABLY WILL RECEIVE NOTICES FROM THOSE WHOM FURNISH LABOR OR MATERIALS OR THE CONSTRUCTION, AND SHOULD GIVE A COPY OF EACH NOTICE RECEIVED TO HIS MORTGAGE LENDER, IF ANY. BUILDER AGREES TO COOPERATE WITH THE OWNER AND HIS LENDER, IF ANY, TO SEE THAT ALL POTENTIAL LIEN CLAIMANTS ARE DULY PAID.

Thank you for allowing us to quote.

Respectfully Submitted by,



Robert Ketter
Project Manager/Estimator
Contractor's License #: 6459

Accepted by,

Barry Mashuda
Green Lake County Highway
Dated: _____



BUILDING CONTRACTOR REGISTRATION

2013 Wisconsin Act 20 ended the authority of the Department of Safety and Professional Services to require a Building Contractor Registration effective July 2, 2013.

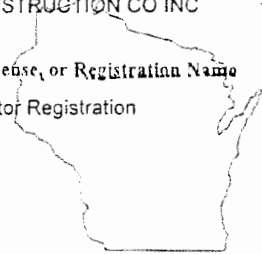
For information regarding Dwelling Contractors, see links below:

- [Dwelling Contractor](#)
- [Dwelling Contractor Restricted](#)
- [Dwelling Contractor Qualifier](#)

ID: 6459

CARDINAL CONSTRUCTION CO INC

Certification, License, or Registration Name	Expires
Building Contractor Registration	05/12/17



Wisconsin Department of Commerce

Signature: *[Handwritten Signature]*



M.P.B. Builders, Inc.

654 E. Oshkosh Street
Ripon, WI 54971
Phone # (920) 748-2601
Toll Free # (800) 782-9632
tom@mpbuilders.com
www.mpbuilders.com

September 18, 2019

Barry Mashuda, Commissioner
Green Lake County Highway Department
570 South Street
Green Lake, WI 54941

Subject: 50' x 81' Heated Storage Building at Shop 2, Manchester, WI

Dear Barry,

It is my privilege to submit for your approval the following proposal. M.P.B. Builders, Inc. will supply labor and equipment to construct the following building on your site at: N1906 State Highway 73, Manchester, WI:

1 – Storage Building – Post-Frame

- a) Labor to construct a building 50 ft wide by 81 ft in length building with an inside clearance of 18'-0".
- b) This building is to be constructed with posts on top of a 3-foot poured concrete wall. This wall will be part of a frost wall with footing for the building foundation. All concrete work to be performed to the plan dated August 2, 2019.
- c) This is a Menards building package and it will be constructed as close to the plans as possible.

2 - Doors and Windows

- a) Three (3) walk doors will be install – included in the package.
- b) Openings for five (5) overhead doors and framing for door openers to be include. At this time, after discussion with Mr. Mashuda, no doors are included in the package.
 - a. Three (3) 18 ft wide by 14 ft high
 - b. Two (2) 12 ft wide by 14 ft high

3- Ventilation/Insulation/Interior Surfaces

- a) Install 81 linear feet of Profile ridge venting.
- b) Install supplied 2-inch condensation barrier insulation supplied with the Menards package. **Please note:** Menards calls this a R=8 insulation value but our supplier says it's closer to R=5.
- c) **See Options below for a more energy efficient building.**

4 – Misc. Building Work

- a) None listed

5 – Excavation / Site Prep Work

- a) To be Completed by Green Lake County Highway Department.

6- Concrete Work ---- SEE CONCRETE NOTES BELOW THIS PROPOSAL

7 – Electrical Construction

- a) All electrical construction is by Green Lake County at this time.

8 – Plumbing Construction

- b) All plumbing construction is by Green Lake County at this time.

9 – HVAC Construction

- c) All HVAC construction is by Green Lake County at this time.

10 – Waste Disposal and Sanitary Facilities

- a) **Site and building clean up by M.P.B. Builders, Subcontractors, and Erection Crew.**
- b) **Cost of Disposal – Disposal of waste will be by Green Lake County. Wood and paper/cardboard wastes on one pile and steel wastes on another pile. If Green lake county prefers our crews will put wasted ion dumpster supplied by Green Lake County.**
- c) **Restroom facilities are to be supplied by Green Lake County.**

11 - Owner Responsibilities

- a) Utility extensions and temporary power (usage fees) to be paid for by the owner.
- b) Surveying, water run-off studies, soil designs and testing, and required permits for such are the responsibility of the owner unless specified in this proposal.
- c) Any and all not listed mechanicals – electrical, plumbing, HVAC, etc.
- d) Driveways, parking lots, landscaping, lawn seeding, and shrubbery/trees are by the owner unless specified in this proposal.
- e) **Owner is responsible for building insurance from the moment materials are delivered to the site until completion of the building for fire, “Acts of Nature”, theft, and general site liability.**
- f) Owner is responsible for liability of persons on site not employed by MPB Builders, Inc. or its erection crew and subcontractors.

12 - General Information

- a) All engineering has been done by Midwest Manufacturing engineering department.
- b) Any alterations, additions, deletions, or the executing of an option shall be done in writing before they are added, or their construction is started.
- c) All freight and taxes included on any MPB Builders supplied materials.
- d) **Local permits by the Owner.**
- e) All travel and mobilization of equipment and personal by MPB Builders is included.
- f) All work to be completed in a professional manner according to industry practices with competent on-site supervision throughout construction.
- g) MPB Builders, Inc carries General Liability Insurance and Workmen’s Compensation insurance on their employees. Proof of Insurance is available upon request.
- h) Proposal price good for **ten (10) days** due to the volatility in lumber and steel prices.

BUILDING CONSTRUCTION TIMETABLE

- Concrete construction to be completed before December 1st, 2019
 - Building construction to be completed on or before January 31, 2020
- Our construction schedule is out to the end of December at this time.

Total Labor Price: \$ 32, 393.60

Payment to be made as follows: 25% down payment - balance upon competition.

6- Concrete Work

- a) Concrete work to be contracted through MPB Builders and be completed by Duel Concrete Construction.
- b) Work to be done:
 - a. Footing and wall system per the plan dated Aug. 2, 2019.
 - b. Poured floor per the plan dated Aug. 2, 2019. Price does include setting the floor trench drain because we don't know type and style of floor drain is being supplied. This will be a time and material charge in addition to the concrete charges.
 - c. Exterior apron poured as per the plan dated Aug. 2, 2019.

Concrete construction cost ---- \$69, 642.58 paid directly to the Concrete Contractor

Payment to be made as follows: 25% down payment - balance upon competition.

Items below will be direct purchases from MPB Builders – cost includes labor & material.
Options to make the building a HEATED energy efficient building:

- 1) Add Tyvek or equal building wrap to the outside walls, 8-inch fiberglass batt insulation, and 4-mil vapor barrier to the inside of the wall. R=25 ----- Add \$ 5, 3760.00
 - 2) Add 14-inches of blown fiberglass insulation and 4-mil vapor barrier for the ceiling. R=40 -----
----- Add \$ 4, 657.50
- NOTE: If you install the insulation package above, you will have to lap the ceiling steel 9-inches to carry the added load. Therefore requiring 25% more ceiling steel.**
- 3) 24" tail additions for a vented eave soffit overhang ----- Add \$ 570.00
 - 4) 24" vented aluminum soffit panels and related trims for the soffit ----- Add \$ 1, 824.00
 - 5) Soffit insulation stop ----- Add \$ 240.00

Options to make the building more structurally sound – added internal bracing:

- 1) 2 x 6 plated brace frames for the sidewalls – 4 frames ----- Add \$ 400.00
 - 2) 2 x 6 plated brace frames for the end walls – 2 frames ----- Add \$ 200.00
- These will only be required if Menards has not included any bracing for the walls.
- 3) 2 x 4/6 plated roof brace frame – one end – This not include in Maenads package – Add \$ 250.00

Barry Mashuda, Commissioner
Green Lake County Highway Department
Green Lake, WI
Page 4

Option to make the building attic ventilate more efficiently. These ridge vents would replace Menards Profile ridge venting. These vents do a better job and will not plug up with leaves or dirt.

a) Four (4) 10-foot MWi RA35 ridge vents color matched to the roof ----- Add \$ 1, 240.00

If all options are provided and installed it would add \$ 14, 757.50 to the price.

This building is for commercial use by the owner and the owner's business. It meets all requirements as a commercial building for use by the public.

MPB Builders strives to provide the highest quality building at a reasonable price. If you find a building priced for less than ours, please let me know. I may be able to explain why it is different.

Remember, if you find a deal that seems to be better elsewhere, you will more than likely find that some of the features of our building are missing or of lesser quality. Our service and reputation are superior to most other builders. We have been in business since 1961 and plan on being here for many years to come.

Thank you for giving me the opportunity of providing you with the above proposal. If you have any questions, need further information, or want to change the size, doors, or configuration of the building please do not hesitate to contact me.

Very truly yours,



Tom Schwarz
Project Manager

Owner's Initials _____ Date: _____

Project Manager Initials _____

Tom's Proposal Worksheet

Name: **G.L. CTY SHOP 2** Project: **50' x 81' x 1-3 -- LABOR ONLY** Date: **Sept 12, 2019**

Building Item:	Unit	No. of:	Cost per	Total Cost	Hrs
50'-0" x 81'-0" x 13'-0" on top of concrete walls	Base	1		\$0.00	116.0
Additional Building Bays	Bays	5		\$0.00	65.0
BUILDING PACKAGE SUPPLIED BY OWNER				\$0.00	0.0
Engineeering & State Approval by MM Engineering				\$0.00	0.0
Building to be constructed on 36" wall - post ontop				\$0.00	0.0
Total				\$0.00	0.0
Price Book Adjustment	%			\$0.00	30.0
BASE TOTAL				\$0.00	211.0
REQUIRED COMPONENTS					
ceiling load truss supplied by owner	included			\$0.00	0.0
Truss reinforcement per plans -- 10 trusses	truss set	10		\$0.00	10.0
				\$0.00	0.0
Install snow bar 3 section of 20 ft	per	1		\$0.00	3.0
Install 3068 walk doors - supplied by owner	per door	3		\$0.00	9.0
Install (3) sidewall door headers	per door	3		\$0.00	9.0
Install (2) endwall door headers	per door	2		\$0.00	6.0
Install framing for door openers	per door	5		\$0.00	5.0
Install Attic access doors	per door	2		\$0.00	3.0
Install supplied Profile ridge vent	per 81 ft	1		\$0.00	4.0
				\$0.00	0.0
Install 2" roof insulation & steel ceiling supplied	per sq ft	4050		\$0.00	64.0
Install 2" wall insulation & interior steel wall panels	per sq ft	3072		\$0.00	45.0
Install code required attic smoke stop	per	1		\$0.00	2.0
				\$0.00	0.0
				\$0.00	0.0
Errors & Omissions	%	0.03%	383.00	\$0.00	12.0
				\$0.00	172.0
PROPOSED TOTAL HOURS				\$0.00	383.0
Total Labor Charges by MPB	per hr	383	\$70.00	\$26,810.00	
Equipment Charges	per job	1	\$1,750.00	\$1,750.00	
Crane and Man to set Trusses	per job	1	\$1,000.00	\$1,000.00	
Porject Manager Fee (Tom)	per job	1	\$1,000.00	\$1,000.00	
				\$0.00	
Overhead and Commisions	%	6.00%	\$30,560.00	\$1,833.60	
MPB TOTAL BUILDING LABOR JOB COST				\$32,393.60	

Tom's Proposal Worksheet

CONCRETE CONSTRUCTION: Provided by MPB

-- P & P 260 ln ft of 28" x 12" reinforced footing	incl				\$0.00
-- P & P 260 ln ft reinforced wall per plan	incl				\$0.00
-- P & P 260 ln ft of 4-inch floor ledge place (3) row of #4 rebar at	incl				\$0.00
-- All reinfocing - 4600 ln ft of 1/2" per plan	incl				\$0.00
-- P & P 65 sheets of 2-inch styrofoam insulation per plan	incl				\$0.00
-- 2 loads clear stone	incl				\$0.00
-- conveyor charges	incl				\$0.00

Total Footing and Wall Cost

\$31,354.90

P & P 4000 sq ft 8" concrete floor - 4000 psi-6bag mix	incl				\$0.00
P & P 4000 sq ft of 6-mil vapor barrier	incl				\$0.00
P & P 4500 sq ft of 6x6x10 wire mesh reinforcing	incl				\$0.00
P & P 700 ft of 1/2" hook rebar drilled into walls	incl				\$0.00
Cut and seal floor	incl				\$0.00

Note setting your floor drain will be charged at Time and Material

\$0.00

Total Floor Cost

\$30,405.60

P & P 936 sq ft of 8" exterior aprons - 4500 psi - 6 bag mix	incl				
P & P 936 sq ft 6x6x10 wire mesh reinforcing	incl				
Cut and seal floor	incl				
interior and exterior expansion joint material installed	incl				

Total Exterior Apron Cost

\$7,882.08

COST IF PAID DIRECT TO CONCRETE CONTRACTOR

\$69,642.58

Options below will be direct payment to MPB Builders for Labor (Included) & Materials

OPTIONS: To make the building a heated energy efficient building

-- 8" fiberglass batt insulation, Tyveck building wrap, and 4-mil vapor barrier to make the exterior walls an R=25	per sq ft	3072	\$1.75	\$5,376.00	37.0
-- 14" blown fiberglass and 4-mil vapor barrier R=40	per sq ft	4050	\$1.15	\$4,657.50	32.0
-- 24" tail additions for vented eave soffit overhang	per pc	20	\$28.50	\$570.00	5.0
-- 24' vented soffit panels and related trims	per ln ft	192	\$9.50	\$1,824.00	13.0
-- Soffit insulation stop	per ln ft	192	\$1.25	\$240.00	4.0

Depending on what bracing Menards sent and I will not know until we review the materials sent - the items below may or may not be needed

-- 2 x 6 plate brace frames for the side walls	per brace	4	\$100.00	\$400.00	6.0
-- 2 x 6 plate brace frames for the end walls	per brace	2	\$100.00	\$200.00	3.0
-- 2 x 4/6 plated roof brace frame - I know THIS is not included	per brace	1	\$250.00	\$250.00	4.0

The Vent below will replace the profile vent from Menards - they do a better job of ventilating and do not plug up with dirt and leaves.

-- 10 ft MWi RA35 ridge vents color matched to the roof	per pc	4	\$310.00	\$1,240.00	4.0
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PROPOSED TOTAL OF OPTIONS W/ LABOR HOURS

\$14,757.50 108.0



M.P.B. Builders, Inc.

654 E. Oshkosh Street
Ripon, WI 54971
Phone # (920) 748-2601
Toll Free # (800) 782-9632
Fax # (920) 748-4829
www.mpbuilders.com

Federal Employer Identification Number	39-1078433
Dwelling Contractors Certification Number	346087
Dwelling Contractors Qualifier – Leo Souder	667416

Project Manager



M.P.B. Builders, Inc.

654 E. Oshkosh St.
Ripon, WI 54971

Tom Schwarz
Project Manager/Sales

tom@mpbuilders.com
www.mpbuilders.com



Phone: (920) 748-2601
Toll Free: (800) 782-9632
Cell: (920) 229-7139
Fax: (920) 748-5283



ID: 667416

LEO J SOUDER

Certification, License, or Registration Name	Expires
Dwelling Contractor Qualifier Certification	02/18/20



Wisconsin Department of Safety and Professional Services
Signature:

Division of Professional Credential
Processing
4822 Madison Yards Way
Madison, WI 53705
Phone: (608) 266-2112
Fax: (608) 267-0592
Email: dspscredtrades@wi.gov
Website: www.dsps.wi.gov

Certification, License, or Registration Card

Below you will find your certification, license or registration card. This card serves as an additional piece of documentation of licensure that may be carried on person. To view details about your credential or continuing education, log into the eSLA portal where you can view your credential status or use the public lookup to verify the status of your CE. To access the eSLA portal, navigate to www.eSLA.wi.gov.

Wisconsin Department of Safety and Professional Services

MPB BUILDERS INC

Credential ID: DC-069900009

Customer ID: 346087

Certification, License, or Registration Name	Expires:
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Dwelling Contractor

2020-02-02

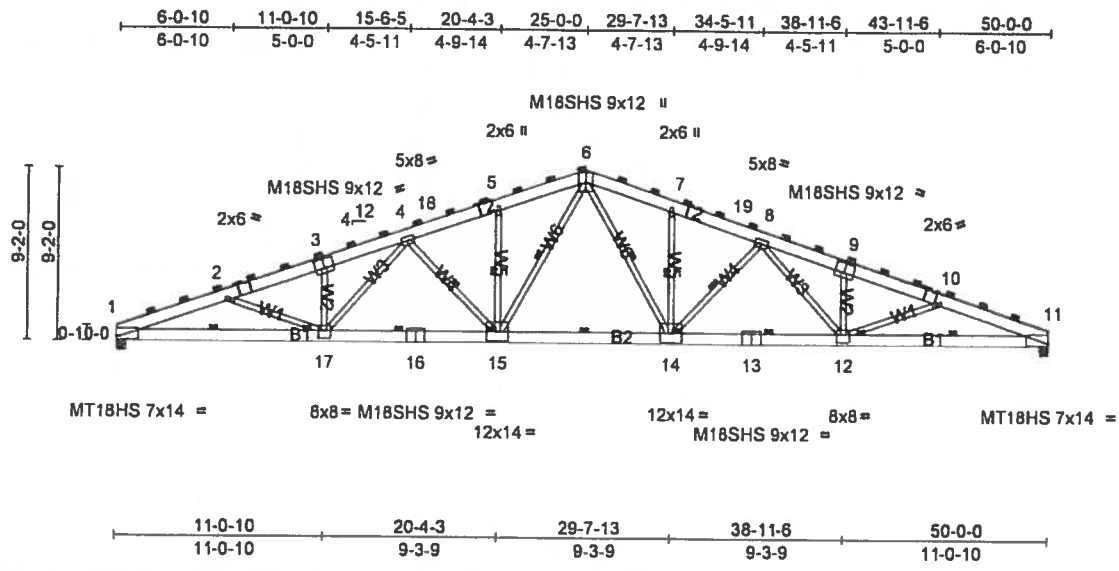
Signature:

Please review the information on the card. If errors or discrepancies are found, you may contact the Department at 608-266-2112 or email DSpscRedTrades@wi.gov, and provide your ID number printed on the card. The Department should be notified of changes in addresses as they occur. Notification of address changes is the responsibility of the credential holder. A renewal notice will be emailed to the email address on file 30 and 60 days before expiration. Before the expiration date of each credential indicated on the card. Renewals are contingent upon compliance with the requirements specified in Wisconsin Administrative Code SPS 305.

Job QTREC0598465	Truss P1	Truss Type COMMON	Qty 8	Ply 1	Job Reference (optional)
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Midwest Manufacturing, Eau Claire, WI

Run: 8:23 S Aug 28 2018 Print: 8:230 S Aug 28 2018 MiTek Industries, Inc. Tue Jul 09 14 27 28 Page 1
ID: Wl02oH12BfqYu3l?CbMDbyzmlE-zgsPdCBCpE0dzw_ccXPLUPE?dGsaNKTWdUCNxbymhT



Scale = 1:111.1

Plate Offsets (X, Y): [1:Edge,0-1-5], [3:0-6-0,0-6-0], [9:0-6-0,0-6-0], [11:Edge,0-1-5], [12:0-2-8,0-5-0], [17:0-2-0,0-5-0]

Loading	(psf)	Spacing	9-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.79	14-15	>754	240	MT18HS	244/190
Snow (Ps/Pg)	20.8/35.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-1.15	14-15	>518	180	M18SHS	244/190
TCDL	4.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.36	11	n/a	n/a	MT20	197/144
BCLL	0.0	Code	IBC2015/TPI2014	Matrx-R								
BCDL	5.0											Weight: 403 lb FT = 15%

LUMBER		BRACING	
TOP CHORD	2x8 SP 2400F 2.0E	TOP CHORD	2-0-0 oc purlins (2-1-7 max.)
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	5-6-0 oc bracing
WEBS	2x4 SPF Stud *Except* W6 2x4 SPF 1650F 1.5E	WEBS	1 Row at midpt

REACTIONS (lb/size) 1=6654/0-5-8, (min 0-5-8), 11=6654/0-5-8, (min. 0-5-8)
Max Horiz 1=402 (LC 15)
Max Uplift 1=-1736 (LC 8), 11=-1736 (LC 9)

FORCES (lb) - Max Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-16158/4272, 2-3=-15369/3928, 3-4=-15312/4132, 4-18=-12214/3190, 5-18=-12005/3219, 5-6=-12052/3396, 6-7=-12052/3395, 7-19=-12005/3220, 8-19=-12214/3190, 8-9=-15312/4131, 9-10=-15369/3928, 10-11=-16158/4279
BOT CHORD 1-17=-4088/14840, 16-17=-3190/13074, 15-16=-3190/13074, 14-15=-1981/9753, 13-14=-2913/13074, 12-13=-2913/13074, 11-12=-3818/14840
WEBS 8-15=-1132/4533, 8-14=-1130/4533, 2-17=-700/535, 3-17=-1054/591, 4-17=-653/2211, 4-15=-2735/1018, 5-15=-1507/470, 7-14=-1507/467, 8-14=-2735/1021, 8-12=-650/2211, 9-12=-1054/586, 10-12=-700/547

JOINT STRESS INDEX
1 = 0.97, 2 = 0.40, 3 = 0.69, 4 = 0.89, 5 = 0.42, 6 = 0.59, 7 = 0.42, 8 = 0.69, 9 = 0.89, 10 = 0.40, 11 = 0.97, 12 = 0.80, 13 = 0.69, 14 = 0.72, 15 = 0.72, 16 = 0.69 and 17 = 0.80

- NOTES (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph, TCDL=2.4psf, BCDL=3.0psf; h=25ft, Cat. II, Exp C; Enclosed, MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15), Pg=35.0 psf (ground snow), Ps=20.8 psf (roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II, Exp C; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1736 lb uplift at joint 1 and 1736 lb uplift at joint 11.
 - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Plate Approval Numbers: ESR-1988 and ESR-1352.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
QTREC0598465	P1SE	COMMON	2	1	

Midwest Manufacturing, Eau Claire, WI

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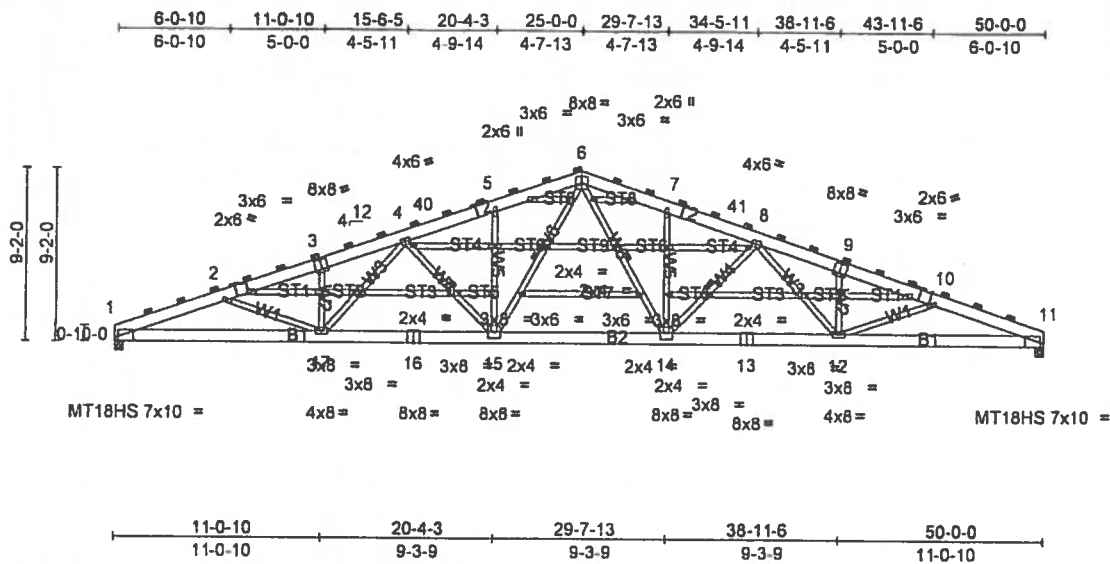


Plate Offsets (X, Y): [1 0-2-1,Edge], [3 0-4-0,0-6-0], [9 0-4-0,0-6-0], [11 0-2-1,Edge]

Loading	(psf)	Spacing	4-6-0	CSI	0.77	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.49	14-15	>999	240	MT18HS	197/144
Snow (Ps/Pg)	20 8/35.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.71	14-15	>842	180	MT20	244/190
TCDL	4.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.18	11	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-R								
BCDL	5.0											
Weight: 427 lb FT = 15%												

LUMBER

TOP CHORD 2x8 SPF No 2
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SPF Stud *Except* W6 2x4 SPF No.2
 OTHERS 2x4 SPF Stud

BRACING

TOP CHORD 2-0-0 oc purlins (2-4-8 max.)
 BOT CHORD Rigid ceiling directly applied or 6-2-14 oc bracing.
 WEBS 1 Row at midpt 6-15, 6-14, 4-15, 8-14

REACTIONS (lb/size)

1=3327/0-5-8, (min. 0-2-12), 11=3327/0-5-8, (min. 0-2-12)
 Max Horiz 1=339 (LC 16)
 Max Uplift 1=1470 (LC 8), 11=1470 (LC 9)

FORCES

(lb) - Max Comp/Max Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=8093/3583, 2-3=7878/3307, 3-4=7643/3450, 4-40=8110/2654, 5-40=8008/2669, 5-6=6038/2797, 6-7=6038/2797, 7-41=8008/2669, 8-41=8110/2654, 8-9=7643/3449, 9-10=7676/3307, 10-11=8093/3588
 BOT CHORD 1-17=3473/7436, 16-17=2739/6535, 15-16=2739/6535, 14-15=1733/4869, 13-14=2491/6535, 12-13=2491/6535, 11-12=3229/7436
 WEBS 8-15=979/2294, 8-14=978/2294, 2-17=370/411, 3-17=512/436, 4-17=569/1100, 4-15=1353/817, 5-15=785/363, 7-14=785/361, 8-14=1353/819, 8-12=587/1100, 9-12=512/432, 10-12=370/419

JOINT STRESS INDEX

1 = 0.83, 2 = 0.26, 3 = 0.88, 4 = 0.58, 5 = 0.26, 6 = 0.80, 7 = 0.26, 8 = 0.58, 9 = 0.88, 10 = 0.26, 11 = 0.83, 12 = 0.80, 13 = 0.94, 14 = 0.71, 15 = 0.71, 16 = 0.94, 17 = 0.80, 18 = 0.25, 19 = 0.17, 20 = 0.42, 21 = 0.45, 22 = 0.38, 23 = 0.38, 24 = 0.38, 25 = 0.38, 26 = 0.45, 27 = 0.42, 28 = 0.17, 29 = 0.25, 30 = 0.25, 31 = 0.38, 32 = 0.66, 33 = 0.66, 34 = 0.38, 35 = 0.25, 36 = 0.38, 37 = 0.17, 38 = 0.17 and 39 = 0.38

NOTES (14)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=2.4psf; BCDL=3.0psf; h=25ft, Cat. II, Exp C; Enclosed, MWFRS (envelope) exterior zone, cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load). Lumber DOL=1.15 Plate DOL=1.15; Pg=35.0 psf (ground snow); Ps=20.8 psf (roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II, Exp C; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Horizontal gable studs spaced at 2-6-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1470 lb uplift at joint 1 and 1470 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Plate Approval Numbers: ESR-1988 and ESR-1352.

LOAD CASE(S) Standard

EAGLE METAL

12360 Ford Rd, Suite 110
Dallas, Texas 75234

eaglemetal.com

The truss modification drawings referenced below have been prepared by me or under my direct supervision based on the modified truss design criteria and requirements ("modified criteria") provided by Midwest Manufacturing.

Each truss modification drawing relies solely upon information provided by others. We have made no investigation of job site conditions or factors that have necessitated the modifications or may affect the truss. Any variance from the information provided will render the affected truss modification drawing inapplicable.

Listed below are the truss designs included in this package and covered by this seal:

Job: FOND REPAIR - 1110554
p50new, p50newRR

Any location identification is for file reference only. No determination of the appropriateness of modified criteria for any specific project has been made in preparing the truss modification drawings.

Please refer to (1) individual truss modification drawings for specific modified criteria and (2) the original individual truss design drawings for information not shown on the truss modification drawings.

Original Job: FOND REPAIR



Matt Vinson (WI, 39115)

My license renewal date for the state of WI is 07/31/2020.

IMPORTANT NOTE: The responsibility of the engineer sealing this package, as a Truss Engineer, is solely for the design of the modification of the individual trusses as individual building components to alter their original design based upon the modified design criteria provided by others and set forth in the modified truss drawings. The modified truss design criteria for the components have not been verified as appropriate for any particular building, project or use. Adequacy and suitability of design criteria and requirements for the truss designs for any specific project are the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

DESIGN NOTES

- The Truss Design Drawing(s) provided with these General Notes have been prepared under and are subject to ANSI/TPI1. Capitalized terms have the meanings provided in ANSI/TPI1.
- Copies of each Truss Design Drawing shall be furnished to the installation contractor, Building Designer, Owner and all persons fabricating, handling, installing, bracing, or erecting the trusses.

DESIGN LIMITATIONS

- The Truss Design Drawing is based upon specifications provided by the Building Designer in accordance with ANSI/TPI1. Neither the Truss Designer, Eagle, nor an engineer who seals this design (if any) assumes any responsibility for the adequacy or accuracy of specifications provided by the Building Designer.
- The Building Designer is solely responsible for the suitability based upon the Truss Design Drawing and shall be responsible for reviewing and verifying that the information shown is in general conformance with the design of the Building.
- Each Truss Design Drawing is for the individual building component (a truss). A seal on the Truss Design Drawing indicates acceptance of professional engineering responsibility solely for the individual truss.
- Each Truss Design Drawing assumes trusses will be suitably protected from the environment.

HANDLING, INSTALLING, & BRACING

- Refer to BCSI for handling, installing, restraining and bracing trusses. Copies can be obtained from the Truss Plate Institute (TPI), 218 N Lee Street, Suite 312, Alexandria, VA 22314, www.tpinst.org or SBCA, 6308 Enterprise Lane, Madison, WI 53719, www.sbindustry.com.
- Bracing shown on each Truss Design Drawing is for lateral support of individual truss components only to reduce buckling lengths. All temporary and permanent bracing, including lateral load and diagonal or cross bracing, are the responsibility, respectively, of the erector and Building Designer.
- Eagle is not responsible for improper truss fabrication, handling, erection or bracing.
- Compression chords shall be laterally braced by the roof or floor sheathing directly attached, or have purlins provided at spacing shown, unless noted otherwise.

- Bottom chord required bracing shall be at 10ft spacing or less, if no structural rated ceiling is installed, unless noted otherwise.
- Strongbacking shall be installed on all parallel chord trusses including flooring systems, to limit deflection and reduce vibration. Refer to BCSI-97.
- Never exceed the design loading shown and never stack building or other materials on inadequately braced truss. Refer to BCSI.
- Concentration of construction loads greater than the design loads shall not be applied to the trusses at any time. Refer to BCSI.
- Trusses shall be handled with care prior to erection to avoid damage. Refer to BCSI for recommended truss handling and erection.

MATERIALS & FABRICATION

- Lumber moisture content shall be 19% or less at the time of fabricate unless noted otherwise.
 - Lumber used shall be of the species and size, and in all respects equal to or better than that specified.
 - Unless expressly noted, the truss designs are not applicable for use with fire retardant or preservative treated lumber.
 - Plates shall be applied on both faces of truss at each joint and embedded fully. Knots and wane at joint locations shall be regulated in accordance with ANSI/TPI1.
 - For a specified plate gauge and grade, the specified size is a minimum.
 - Connections not shown are the responsibility of others.
 - Adequate support shall be provided to resist gravity, lateral, uplift loads.
 - For 4x2 truss orientation, locate plates 0' 1/16" from outside the edge of the truss.
 - Fabrication of truss shall be in accordance with ANSI/TPI1.
- ### OTHER NOTES
- Garther is a non-structural consideration and is the responsibility of truss fabricator.
 - Do not cut or alter any truss member or plate without prior approval from a professional engineer.
 - Lumber design values are in accordance with ANSI/TPI1, lumber design values are by others.
 - Install specified hangers per manufacturer's recommendations.

SYMBOLS

PLATE SIZE

1X4 - The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

→, ↑, ↓, ←, indicates required direction of slots. Reference "Joint Details" for more information.

20 Ga Gr40 connectors required
1X10 - 20HS - 20 Ga Gr60 connectors required
RX10-18HS - 18 Ga Gr60 connectors required

LATERAL BRACING

When this symbol shown, continuous lateral bracing is required on the web of the truss.

BEARING

Indicates location where bearings (supports) occur.

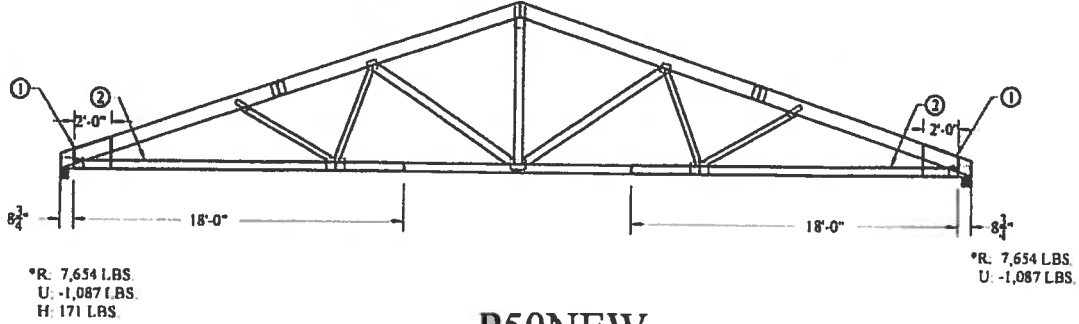
PLATE LOCATION & ORIENTATION

The plate shall be centered on joint and/or placed in accordance with the design drawing/QC full scale details.

REFERENCES

- ANSI/TPI1: National Design Standard for Metal Plate Connected Wood Trusses
- BCSI: Building Component & Safety Information Guide to Good Practice for Handling, Installing, Restraining, & Bracing of Metal Plate Connected Wood Trusses
- NDS: National Design Specification for Wood Construction
- ESR-1092 furnished by the International Code Council, www.iccs.org

*NEW REACTIONS



P50NEW

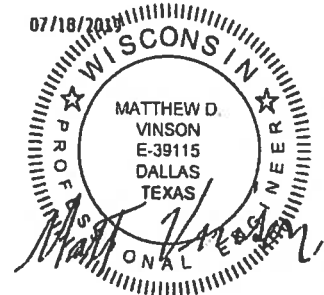
PROBLEM:

P50NEW REQUIRES NEW LOADING INPUT AS FOLLOWS:

- * SPACING UPDATED FROM 8' TP 9' O.C.
- * TCLL UPDATED FROM 30 PSF TO 24.8 PSF
- * BCDL UPDATED FROM 1 PSF TO 5 PSF
- * USING IBC 2015
- * UPDATED FROM CATEGORY I TO CATEGORY II
- * EXPOSURE C
- * SLIPPERY SURFACE USED FOR SNOW INPUT
- * 115 MPH WIND USED FOR WIND INPUT
- * GROUND SNOW LOAD UPDATED FROM 50 TO 35 PSF

SOLUTION:

- 1) ATTACH (2) 3/4" PLYWOOD TO TRUSS WITH CONSTRUCTION GRADE WATERPROOF GLUE (PL400 OR BETTER) & (2) STAGGERED ROWS OF 12d COMMON NAILS, OR EQUIVALENT, AT 4" O.C TO EVERY CONTACT MEMBER, STAGGER ROWS ON OPPOSING SIDES, ONE EACH SIDE.
- 2) ATTACH (1) 2 x 6 SYP 2400/2.0 SCAB TO TRUSS WITH CONSTRUCTION GRADE WATERPROOF GLUE (PL400 OR BETTER) AND (2) STAGGERED ROWS OF 12d COMMON NAILS, OR EQUIVALENT, AT 4" O.C ATTACH PLYWOOD FILLER BETWEEN THE CHORD/WEBS OF THE TRUSS AND THE SCAB, IF NEEDED. INSTALL PLYWOOD PER STEP 1. INSTALL AFTER THE PLYWOOD GUSSETS ARE APPLIED.



SEE ORIGINAL TRUSS DESIGN DRAWING FOR INFORMATION NOT SHOWN

ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ASSURED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST.

TrueBuild® Software
 Eagle Metal Products

BUILDING SPECIFICATIONS AND GENERAL NOTES

OWNERS INFORMATION:
 - NAME: GREEN LAKE COUNTY
 - ADDRESS: 570 SOUTH ST.
 - CITY: GREEN LAKE
 - STATE: WI
 - ZIP: 53941

BUILDING DESIGN INFORMATION:
 - DESIGN CODE: 2018 WI COMM BLDG CODE
 - USE OF BUILDING: STORAGE
 - OCCUPANCY CLASSIFICATION: GROUP (S-1)
 - CONSTRUCTION TYPE: SB
 - RISK CATEGORY: 2
 - FIRE SUPPRESSION SYSTEM: NO

BUILDING AREA:
 - AREA OF WORK: 4050 SQFT
 - EXISTING BUILDING AREA: 0 SQFT
 - TOTAL BUILDING AREA: 4050 SQFT

ALLOWABLE AREA:
 - TABLE AREA: 9000 SQFT
 - PERIMETER INCREASE: 0 SQFT
 - SPRINKLER INCREASE: 0 SQFT
 - TOTAL ALLOWABLE AREA: 9000 SQFT

LOADS	SNOW	WIND	SEISMIC	TRUSS DEAD LOADS
(Pg)	= 35.0 PSF	B.W.S. = 115 MPH	- SEISMIC IMPORTANCE FACTOR: 1.00	DLTC = 4 PSF
(Ca)	= 0.80	EXPOSURE = C	- SPECTRA RESPONSE COEFFICIENT SDS: 0.062	DLBC = 8 PSF
(h)	= 1.00		- SPECTRA RESPONSE COEFFICIENT SD1: 0.065	
(Cs)	= 1.60		- SITE CLASSIFICATION: A	
(P)	= 26.50 PSF			
(Ca)	= 0.84			
(Ps)	= 25.80 PSF			
(L)	= 20.00 PSF			

*WITH UNBALANCED LOADS AS REQUIRED

MAJOR STRUCTURAL COMPONENTS:

COLUMNS: - ALL LAMINATED COLUMNS SHALL BE MIDWEST MANUFACTURING'S, RIVET CLINCHED, WITH STEEL REINFORCED JOINTS UNLESS SPECIFIED OTHERWISE.

TRUSSES: - DESIGNED IN ACCORDANCE TO 2018 WI COMM BLDG CODE (TP) APPROVED THIRD PARTY INSPECTED
 - MIDWEST MANUFACTURING TRUSS QUOTE NUMBER: PSONEW (SKU#: 187-7999)
 - LATERAL BRACING IS REQUIRED. SEE TRUSS SPECIFICATION SHEET(S) FOR LATERAL BRACE LOCATIONS.

STEEL PANEL: - MIDWEST MANUFACTURING PRO-RIB STEEL PANEL
 .0142" MINIMUM THICKNESS BEFORE PAINTING
 .0165" NOMINAL THICKNESS AFTER PAINTING
 G90 GALVANIZED COATING PLUS ZINC PHOSPHATE
 40 YEAR PAINT WARRANTY
 STRUCTURAL STRENGTH ASTM-A553 GRADE 80 (FULL HARD STEEL)
 82000 PSI MINIMUM TENSILE STRENGTH

PLEASE NOTE:

- DESIGNER LIABILITY LIMITED TO THE PREPARATION OF THE DRAWINGS WITH THE PARAMETER CONTRACTED AND ASCERTAINING TO CODE COMPLIANCE.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE RECEIVED FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, & DIMENSIONS BEFORE PROCEEDING WITH ANY WORK.
- NO CHANGES, MODIFICATIONS, OR DEVIATIONS SHALL BE MADE FROM THESE DRAWINGS OR SPECIFICATIONS WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE ENGINEER.
- WHERE LACK OF INFORMATION, OR ANY DISCREPANCY SHOULD APPEAR IN THE DRAWINGS OR SPECIFICATIONS, REQUEST WRITTEN INTERPRETATION FROM THE ENGINEER BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- IMPORTANTLY THIS BUILDING IS DESIGNED USING THE ROOF AS A DIAPHRAGM (DEEP TRIM BEAM) TO TRANSFER SIDEWALL AND ROOF WIND LOADS TO THE ENDWALL SHEAR WALLS. STEEL PANELS ARE AN INTEGRAL PART OF THE BUILDING STRUCTURE AND ANY FUTURE FIELD MODIFICATIONS MADE MAY BE DETRIMENTAL TO THE BUILDING'S STRUCTURAL PERFORMANCE.

SOIL:

- SOIL BASED ON ASABE EP486.2 (TABLE 1)
- PRESUMPTIVE SOIL TYPE: SILTY OR CLAYEY FINE TO COARSE SAND (CLASS OF MATERIAL: SW, SP, SM, AND SO).
- SOIL CONSISTENCY: MEDIUM TO DENSE
- A SOIL BEARING VALUE ASSUMED AT A MINIMUM 2000 PSF.
- ALL FOOTINGS AND SLAB TO BEAR ON UNDISTURBED INORGANIC SOIL OR SOIL COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- ALL SOILS BELOW CONCRETE SHALL BE A NON-FROST SUSCEPTIBLE SOIL AS REQUIRED IN ASCE 32.
- OWNER RESPONSIBLE FOR VERIFYING SITE SOIL CONDITIONS. ALL SOILS TO MEET OR EXCEED REQUIREMENTS AS REFERENCED IN THE GENERAL NOTES. CONSULT GEOTECHNICAL ENGINEER IF NECESSARY.
- FOOTINGS TO BE ABOVE THE WATER TABLE

CONCRETE:

- CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- ALL REBAR SHALL MEET A615 GRADE 40 OR BETTER.

LUMBER:

- ALL WOOD CONSTRUCTION SHALL BE OF MATERIALS SHOWN AND WORKMANSHIP SHALL BE IN ACCORDANCE TO THE NATIONAL FOREST PRODUCTS ASSOCIATION SPECIFICATIONS FOR WOOD CONSTRUCTION.
- ALL LUMBER IN CONTACT WITH CONCRETE OR SOIL ABOVE GRADE SHALL BE TREATED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE AWPA U1 UC3B REQUIREMENTS OR BETTER.
- ALL LUMBER BELOW GRADE SHALL BE TREATED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE AWPA U1 UC4B REQUIREMENTS OR BETTER.

STEEL TRIMS: - COLOR MATCHED STEEL TRIMS
 OSRAM-4-STAR 1050 PAINT SYSTEM

FRAMING FASTENERS: - GALVANIZED THREADED HARDENED STEEL RINGSHANK NAILS, UNLESS NOTED OTHERWISE.

PANEL FASTENERS: - COLOR MATCHED GALVANIZED WOODGRIP SCREWS, #10 DIAMETER, 1/4" HEX HEAD.

HANDLING AND STORING: - ALL STEEL PANELS AND TRUSS PRODUCTS SHOULD BE HANDLED AND STORED PER MANUFACTURER SPECIFICATIONS.

GRADE: - ALL FINISHED GRADES TO SLOPE AWAY FROM BUILDING AT A MIN. 5% GRADE FOR PROPER DRAINAGE (2% FOR IMPERVIOUS) (IBC 1804)

CONSTRUCTION BRACING: - TEMPORARY BRACING DURING CONSTRUCTION SHALL BE CONTRACTORS' RESPONSIBILITY. REFER TO BCSI-B1 AND/OR B10 SUMMARY SHEET "GUIDE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF TRUSSES", BY THE TRUSS PLATE INSTITUTE (TP) AND THE WOOD TRUSS COUNCIL OF AMERICA (WTCA).

HVAC: - HEATING, VENTING, AND AIR CONDITIONING REQUIREMENTS WERE NOT ADDRESSED ON THE DRAWING AND SHOULD BE APPROVED BY LOCAL OFFICIALS

PLUMBING: - PLUMBING REQUIREMENTS WERE NOT ADDRESSED ON THE DRAWING AND SHOULD BE INSTALLED IN ACCORDANCE WITH REQUIRED BUILDING CODES.

ELECTRICAL: - ELECTRICAL REQUIREMENTS WERE NOT ADDRESSED ON THE DRAWING AND SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY LOCAL CODES.

EXIT LIGHTS: - EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH THE ICC ELECTRICAL CODE.

ACCESSIBLE PARKING: - SHALL COMPLY WITH ICC/ANSI A117.1 CHAPTER 5.

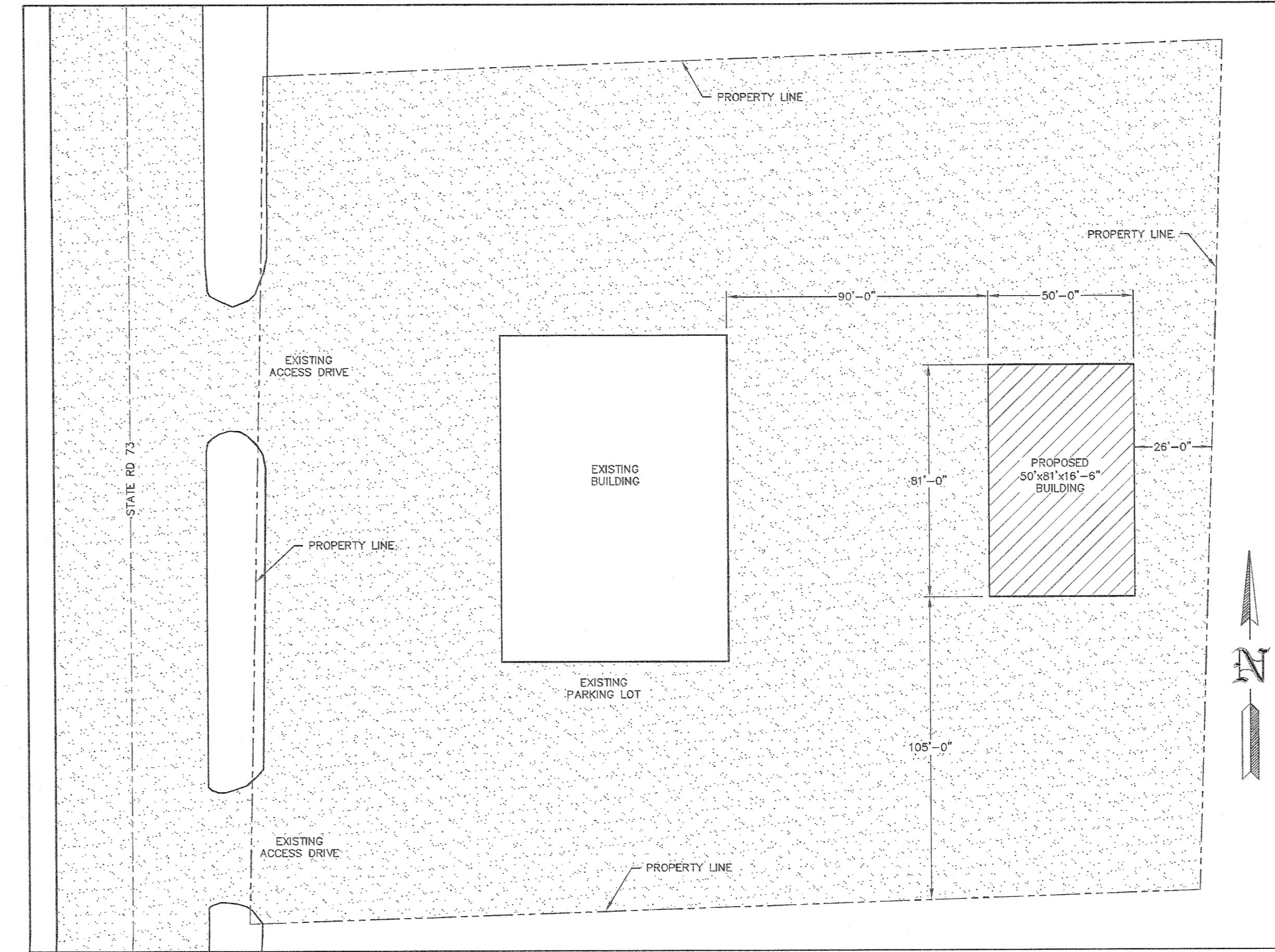
ACCESSIBLE ROUTE: - SHALL COMPLY WITH ICC/ANSI A117.1 CHAPTER 4.

ACCESSIBLE DOOR HARDWARE: - SHALL COMPLY WITH ICC/ANSI A117.1 CHAPTER 3 SECTION 309. HANDLES, PULLS, LATCHES, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, FIGHT PULLING, OR TWISTING OF THE WRIST TO OPERATE. LEVER OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPENED, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" (1220 MM) ABOVE FINISHED FLOOR THE THRESHOLD OF SERVICE DOORS MAY NOT EXCEED 1/2" ON EITHER SIDE OF THE DOOR WITH 1:2 SLOPE IF GREATER THAN 1/4".

FIRE EXTINGUISHERS: - SHALL BE INSTALLED, PROVIDED, AND MAINTAINED AS SPECIFIED IN NFPA NO. 10 (BY OTHERS).

SHOP II STORAGE BUILDING

MANCHESTER, WI



SITE PLAN
 SCALE: 1"=30'

BUILDING INFORMATION:
 NAME: SHOP II STORAGE BUILDING
 ADDRESS: N1306 STATE RD 73
 CITY: MANCHESTER
 STATE: WI
 ZIP: 53946
 COUNTY: GREEN LAKE

SHEET INDEX	
SHEET #	SHEET DESCRIPTION
S1	GENERAL NOTES AND SITE PLAN
S2	ELEVATIONS
S3	FOUNDATION PLAN
S4	FLOOR PLAN AND COLUMN & FOOTING SCHEDULE
S5	ROOF TRUSS PLAN AND STUD COLUMN SCHEDULE
S6	SIDEWALL SECTION AND SECTION DETAILS
S7	ENDWALL SECTION AND SECTION DETAILS
S8	OVERHEAD DOOR DETAILS
S9	STEEL APPLICATION DETAILS

NOTE: OWNER/CONTRACTOR SHALL VERIFY ALL SETBACKS WITH LOCAL BUILDING OFFICIAL AT TIME OF CONSTRUCTION.

NOTE: PARKING LOT REQUIRES HANDICAP ACCESSIBLE PARKING STALLS. (ANSI 502) FOR NUMBER OF STALLS REQUIRED, SEE WISCONSIN CODE SECTION 1108.

NOTE: CURB RAMPS COMPLYING W/ ICC/ANSI A117.1.408 ARE REQUIRED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.

NOTE: THE OWNER SHALL PROVIDE AN ALL WEATHER HARD SURFACE AREA 30 FEET OR MORE IN WIDTH EXTENDING AT LEAST 50% OF THE LENGTH OF ONE SIDE OF THE PROPOSED STRUCTURE AND MUST BE ACCESSIBLE TO FIRE FIGHTING EQUIPMENT.

NOTE: THE OWNER SHALL PROVIDE DESIGNATED SPACE WITHIN OR ADJACENT TO STRUCTURE FOR THE COLLECTION OF RECYCLABLE MATERIALS AS PER SPS 362.0400(2).

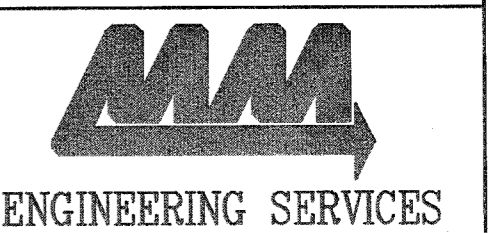
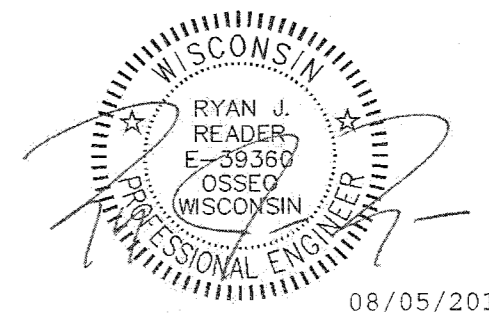
NOTE: IF MORE THAN ONE ACRE OF LAND IS DISTURBED BY BUILDING ERECTION AND/OR PARKING AND ACCESS DRIVE SURFACE, THEN THE OWNER/CONTRACTOR SHALL SUBMIT A WATER RESOURCES APPLICATION FOR PROJECT PERMITS (WRAPP) AS PER NR 216.

Building & Roof Truss
 CONDITIONALLY
 APPROVED
 DEPT. OF SAFETY AND
 PROFESSIONAL SERVICES
 DIVISION OF INDUSTRY SERVICES

JOHN P. PEARSE

SEE CORRESPONDENCE

Transaction: 3266567
 New Construction
 Building & Roof Truss
 8/8/19



ENGINEERING SERVICES
 8211 KANE RD. EAST CLARE, WI 54703 (715) 878-8005

FOR QUESTIONS PLEASE CONTACT BUILDING DESIGNER AT THE FOLLOWING:
 ENGINEERING@MIDWESTMANUFACTURING.COM

PROJECT TITLE:
 SHOP II STORAGE BUILDING

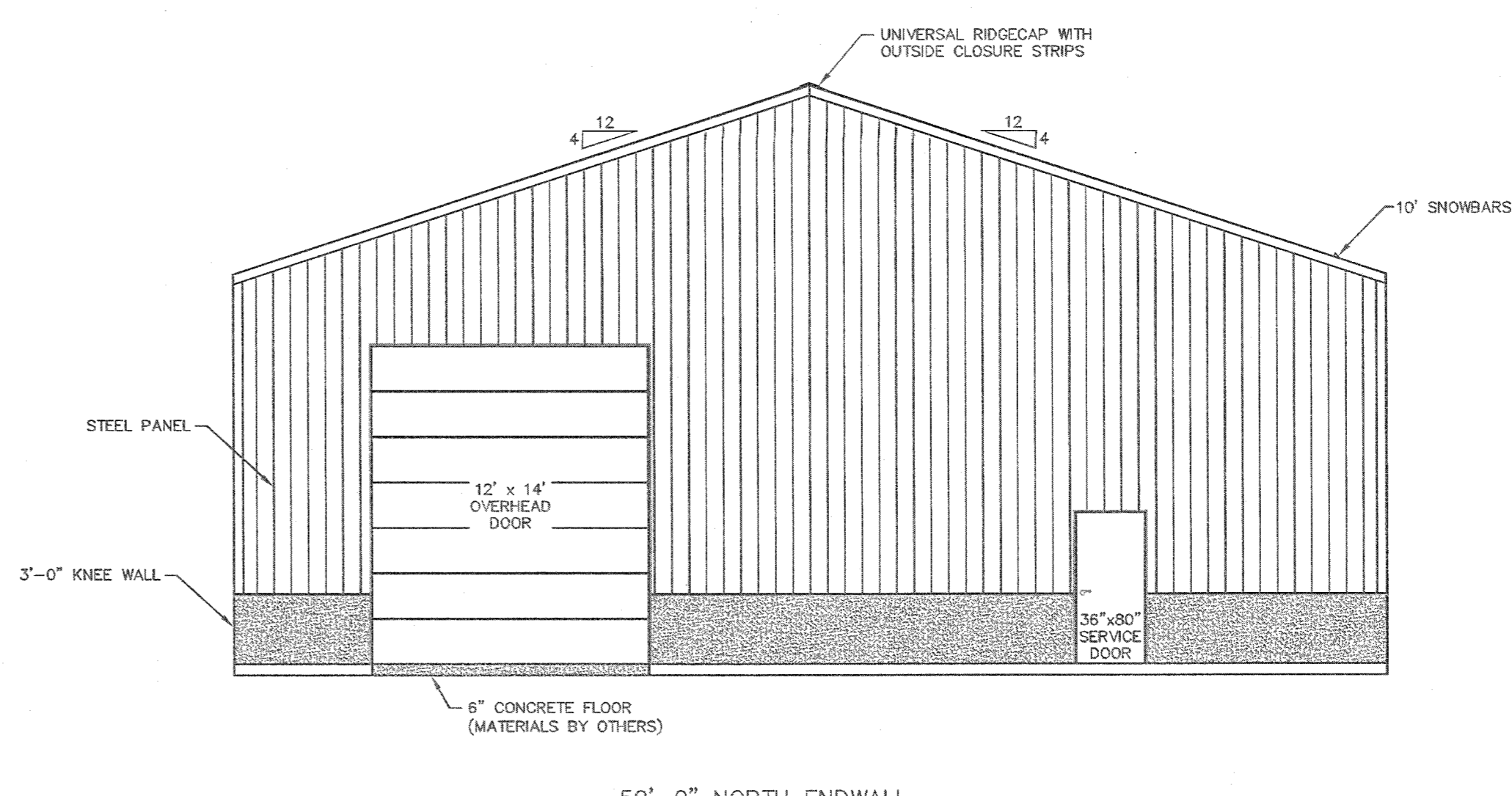
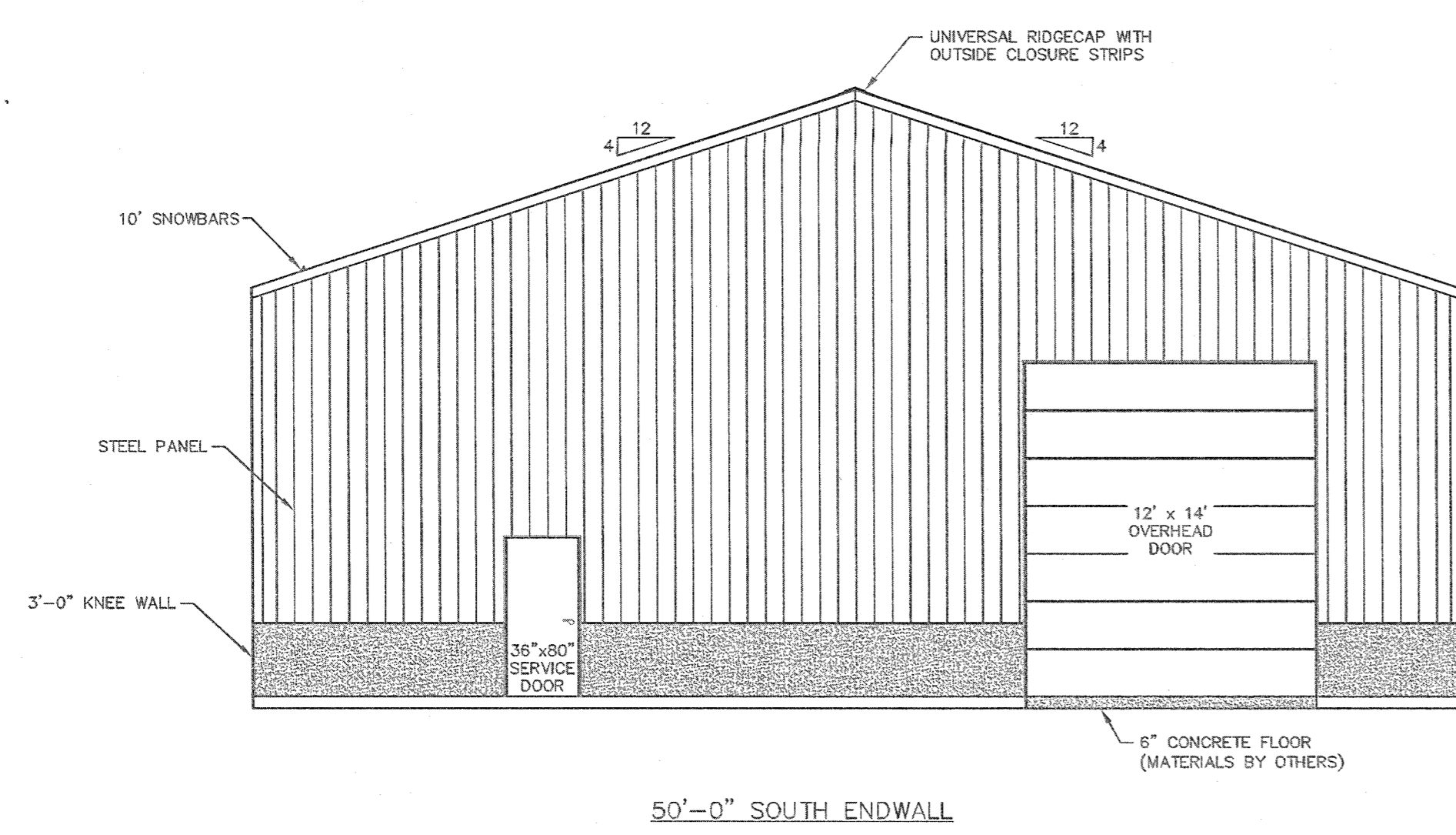
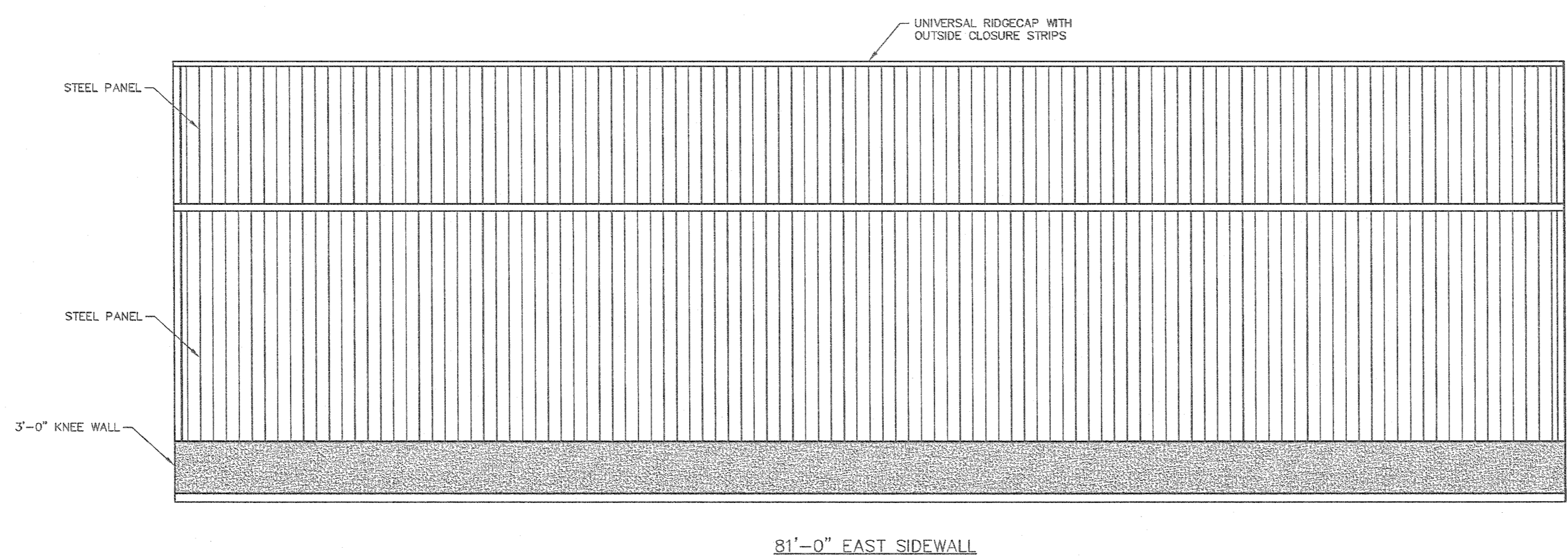
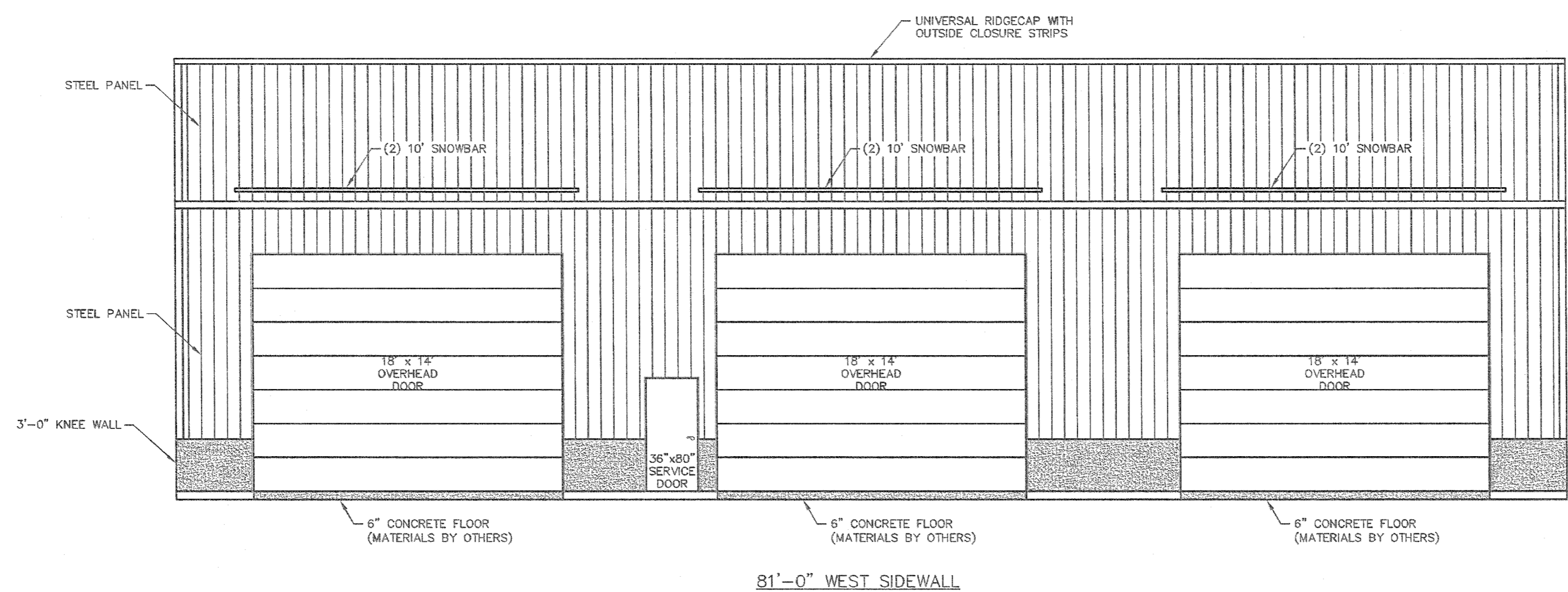
MANCHESTER, WI
 PROF. ENGINEER: RYAN READER
 PLAN DESIGNER: RYAN READER
 DRAWN BY: JMS
 DATE: 8/2/2019
 SCALE: AS NOTED

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		


SHEET TITLE:
 GENERAL NOTES AND SITE PLAN

FILE NAME: S16419W
 SHEET NO.

S1



ELEVATIONS
SCALE: 3/16"=1'-0"



ENGINEERING SERVICES
6011 KANE RD. EAST CLARENCE, WI 54730 (715) 870-3555

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ENGINEERING@MIDWESTMANUFACTURING.COM

PROJECT TITLE:
SHOP II STORAGE BUILDING

MANCHESTER, WI

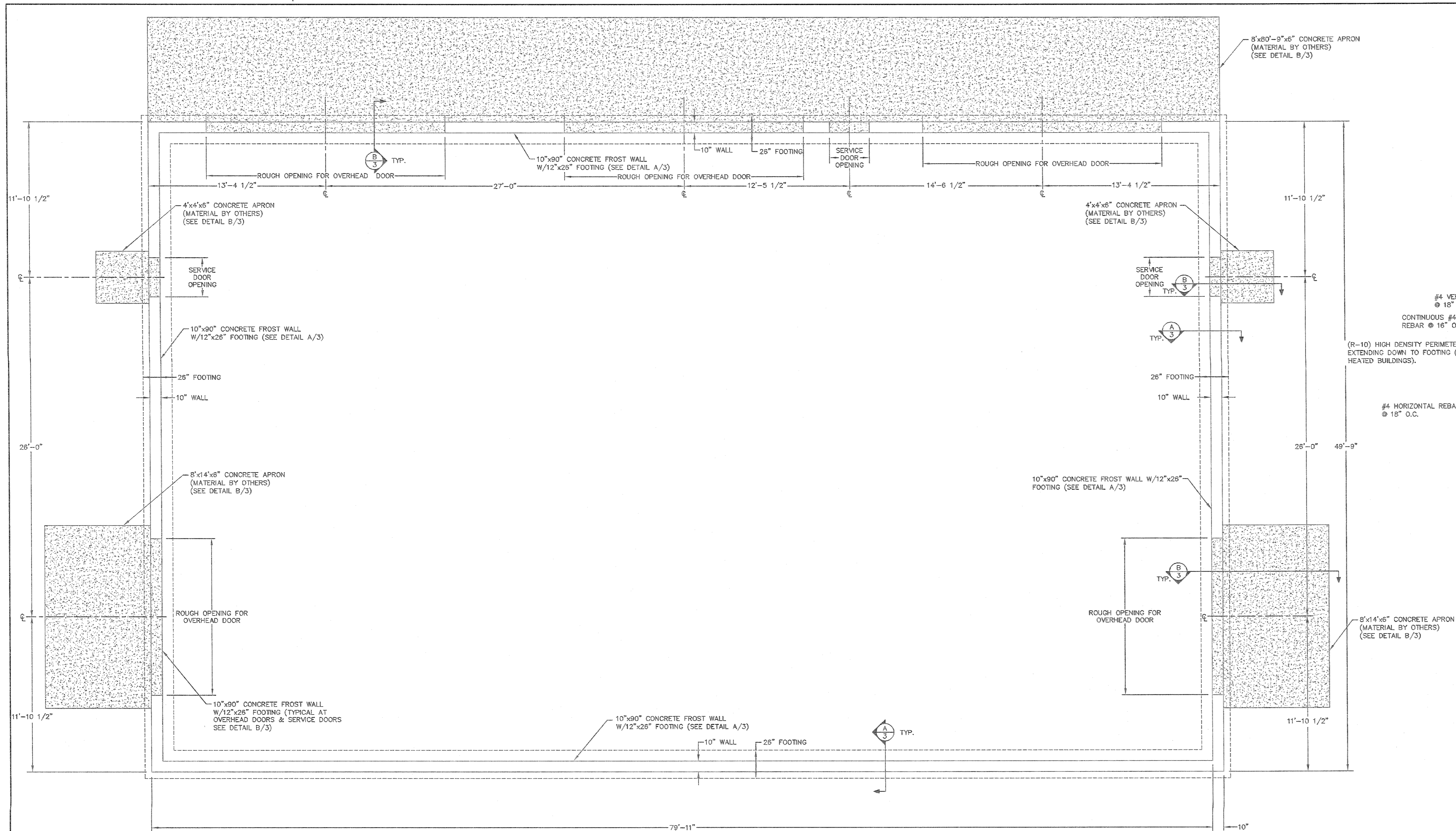
PROF. ENGINEER: RYAN READER
PLAN DESIGNER: RYAN READER
DRAWN BY: JMS
DATE: 8/2/2019
SCALE: AS NOTED

REVISIONS

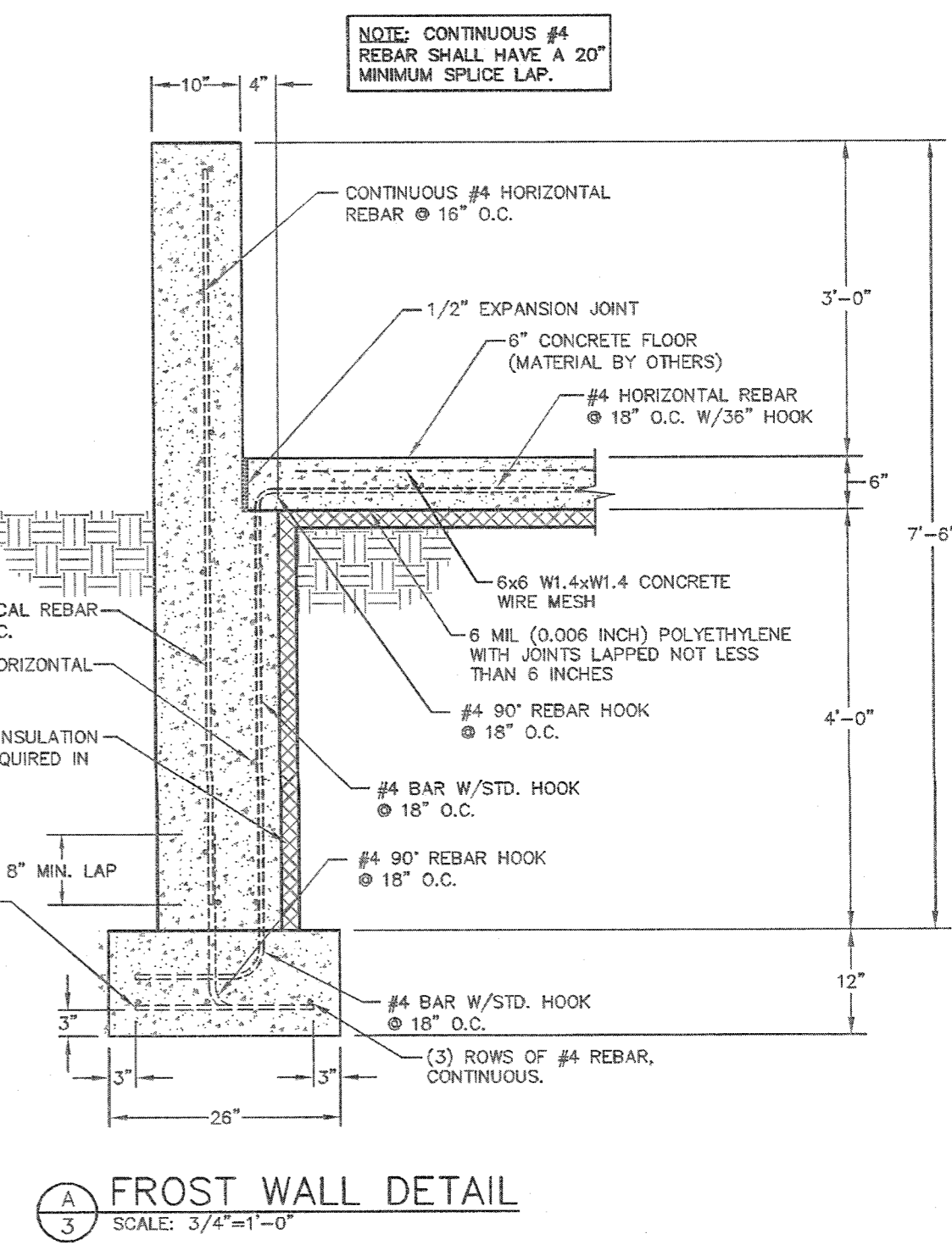
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SHEET TITLE:
ELEVATIONS

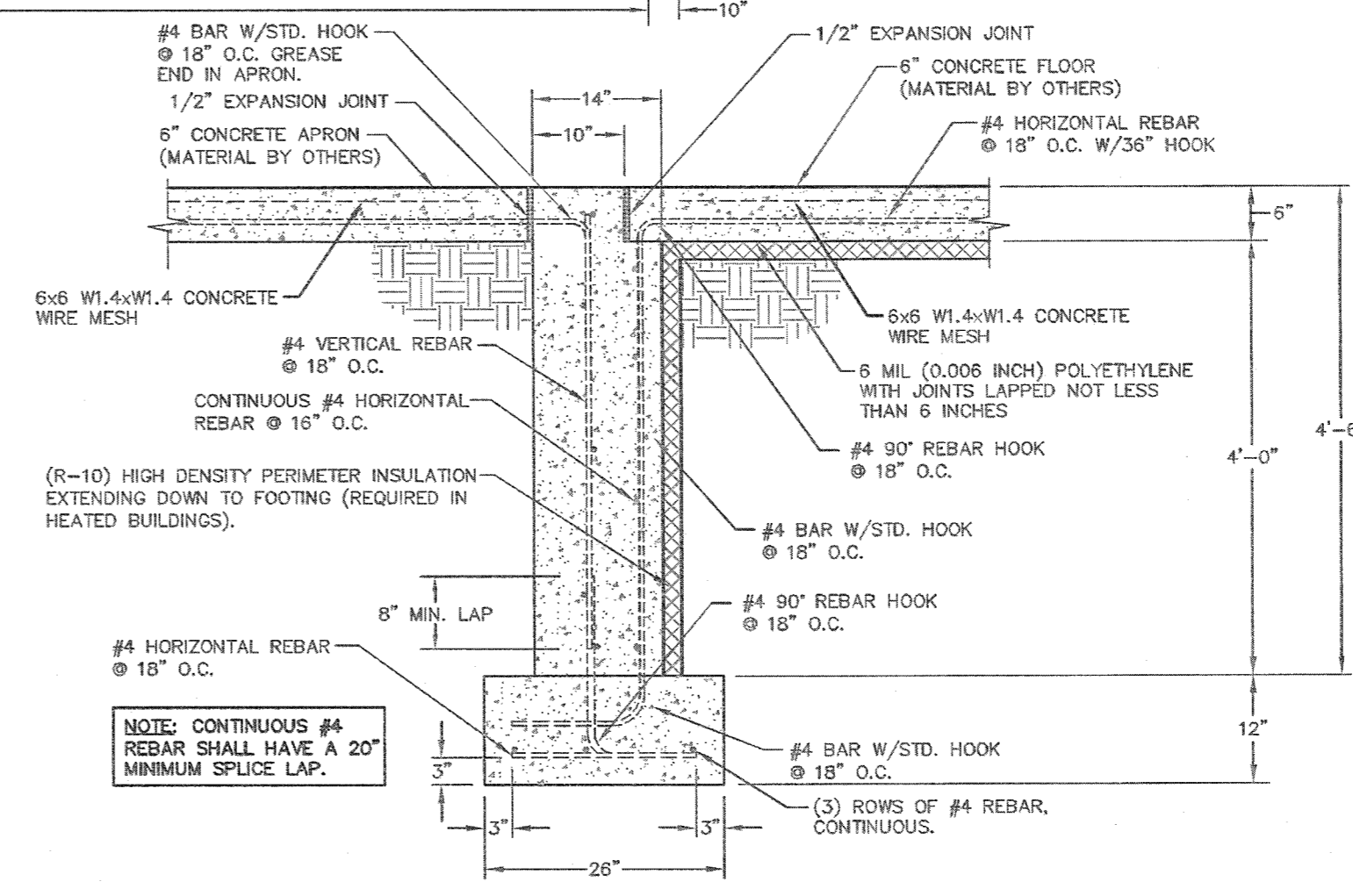
FILE NAME: S16419WI
SHEET NO.
S2



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



FROST WALL DETAIL
SCALE: 3/4"=1'-0"



FROST WALL @ OVERHEAD DOORS AND SERVICE DOORS
SCALE: 3/4"=1'-0"



ENGINEERING SERVICES
5311 KANE RD. SAU CLAIR, WI 54703 (715) 875-9555
FOR QUESTIONS PLEASE CONTACT BUILDING DESIGNER AT THE FOLLOWING:
ENGINEERING@MIDWESTMANUFACTURING.COM

PROJECT TITLE:
SHOP II STORAGE BUILDING

MANCHESTER, WI
PROF. ENGINEER: RYAN READER
PLAN DESIGNER: RYAN READER
DRAWN BY: JMS
DATE: 8/2/2019
SCALE: AS NOTED

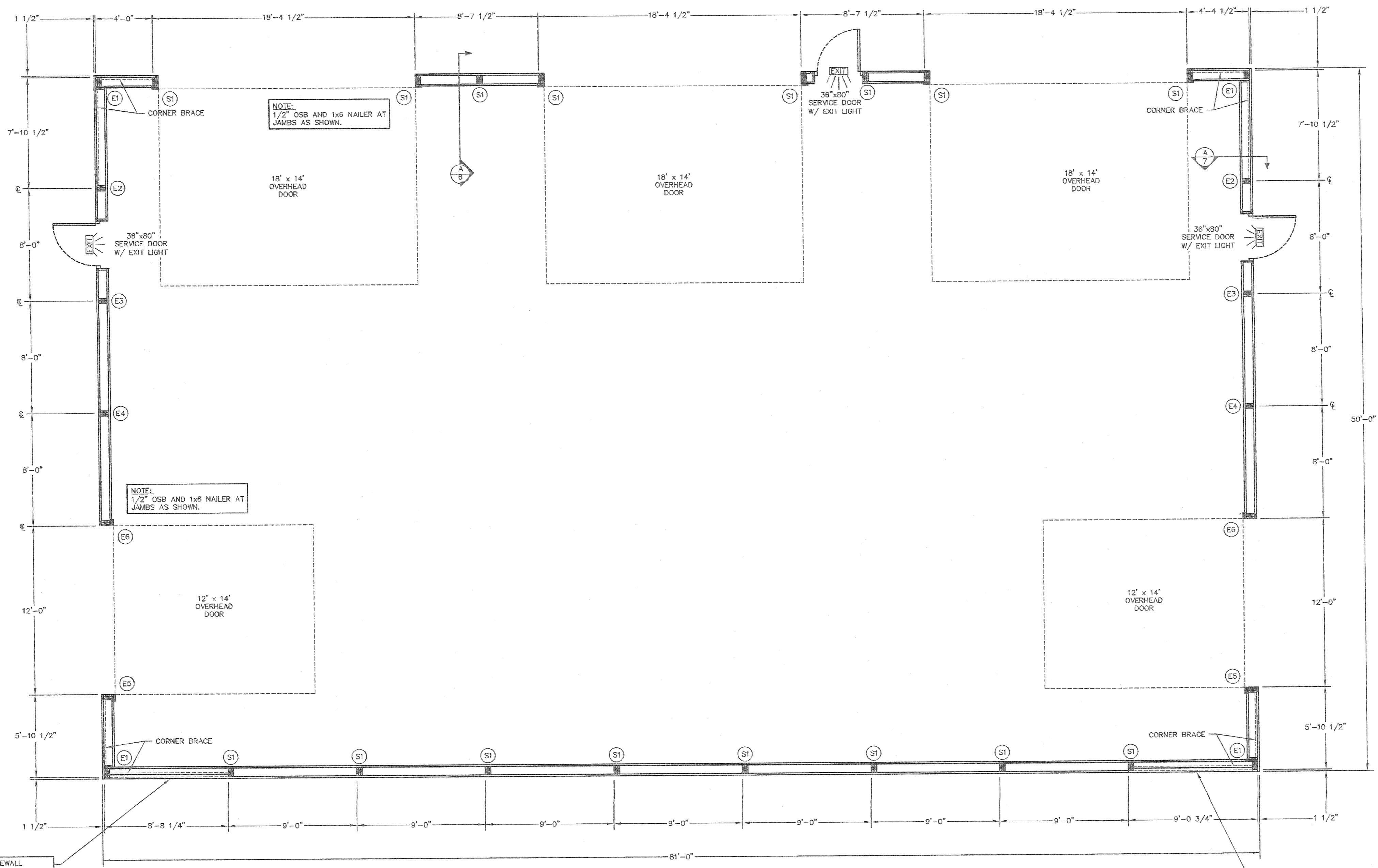
REVISIONS

NO	DATE	DESCRIPTION	BY
1			
2			

SHEET TITLE:
FOUNDATION PLAN

FILE NAME: S16419WI
SHEET NO.

53



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

NOTE: 9' CORNER BAYS ON EAST SIDEWALL REQUIRE 2x4 BOOKSHELF GIRTS @ 20" O.C. SECURED TO 2x6 FLAT GIRTS W/10d T.H.S. NAILS @ 12" O.C.

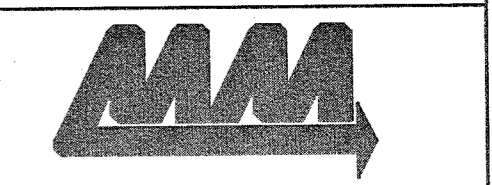
NOTE: 9' CORNER BAYS ON EAST SIDEWALL REQUIRE 2x4 BOOKSHELF GIRTS @ 20" O.C. SECURED TO 2x6 FLAT GIRTS W/10d T.H.S. NAILS @ 12" O.C.

PRO-ANCHOR (PA) BRACKET DESIGNATION

PA60 = 6" UNIVERSAL BRACKET
PA80 = 8" UNIVERSAL BRACKET
PA46 = 4x6 POST BRACKET
PA66 = 6x6 POST BRACKET
PA65 = 3-PLY 2x6 COLUMN BRACKET
PA64 = 4-PLY 2x6 COLUMN BRACKET
PA83 = 3-PLY 2x6 COLUMN BRACKET
PA84 = 4-PLY 2x6 COLUMN BRACKET

COLUMN LOCATION	COLUMN DESCRIPTION	EMBEDMENT	NUMBER OF COLUMNS	FOOTING DESCRIPTION	BRACKET DESCRIPTION	BRACKET(S) PER COLUMN	BRACKET TO COLUMN	BRACKET TO CONCRETE (PER COLUMN)
SI	3-PLY (16") 2x8 2400F MSR SYP LAMINATED COLUMN	-	16	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA83	1	(2)-1/2"x6" BOLTS, (6)-1/4"x3" WOOD SCREWS	(2)-5/8"x6" WEDGE BOLTS, 5 3/4" MIN. EMBEDMENT
E1	3-PLY (16") 2x8 2400F MSR SYP LAMINATED COLUMN	-	4	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA80	1	(2)-1/2"x4" LAG SCREWS, (4)-1/4"x3" WOOD SCREWS	(1)-5/8"x6" WEDGE BOLT, 5 3/4" MIN. EMBEDMENT
E2	3-PLY (18") 2x8 2400F MSR SYP LAMINATED COLUMN	-	2	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA83	1	(2)-1/2"x6" BOLTS, (6)-1/4"x3" WOOD SCREWS	(2)-5/8"x6" WEDGE BOLTS, 5 3/4" MIN. EMBEDMENT
E3	3-PLY (20") 2x8 2400F MSR SYP LAMINATED COLUMN	-	2	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA83	1	(2)-1/2"x6" BOLTS, (6)-1/4"x3" WOOD SCREWS	(2)-5/8"x6" WEDGE BOLTS, 5 3/4" MIN. EMBEDMENT
E4	3-PLY (24") 2x8 2400F MSR SYP LAMINATED COLUMN	-	2	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA83	1	(2)-1/2"x6" BOLTS, (6)-1/4"x3" WOOD SCREWS	(2)-5/8"x6" WEDGE BOLTS, 5 3/4" MIN. EMBEDMENT
E5	3-PLY (16") 2x8 2400F MSR SYP LAMINATED COLUMN	-	2	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA80	1	(2)-1/2"x4" LAG SCREWS, (4)-1/4"x3" WOOD SCREWS	(1)-5/8"x6" WEDGE BOLT, 5 3/4" MIN. EMBEDMENT
E6	3-PLY (22") 2x8 2400F MSR SYP LAMINATED COLUMN	-	2	10" CONCRETE FROST WALL (SEE DETAIL A/3)	PA80	1	(2)-1/2"x4" LAG SCREWS, (4)-1/4"x3" WOOD SCREWS	(1)-5/8"x6" WEDGE BOLT, 5 3/4" MIN. EMBEDMENT

NOTE: CORNER BRACE SHALL BE A 2x6 #2 SPF EXTENDING FROM THE GRADEBOARD AT THE INTERIOR COLUMN TO THE TOP OF THE CORNER COLUMN. CORNER BRACE SHALL BE SECURED TO THE GRADEBOARD W/(3)-10d THREADED HARDENED STEEL NAILS AND TO THE SOFFIT NAILER/TOP GIRT W/(3)-10d THREADED HARDENED STEEL NAILS. EACH BRACE TO GIRT LOCATION SHALL BE SECURED W/(1)-10d THREADED HARDENED STEEL NAIL.



ENGINEERING SERVICES
1011 KANE RD. EAST CLARENCE, WI 54703 (715) 876-5555

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PROJECT TITLE:
SHOP II STORAGE BUILDING

MANCHESTER, WI

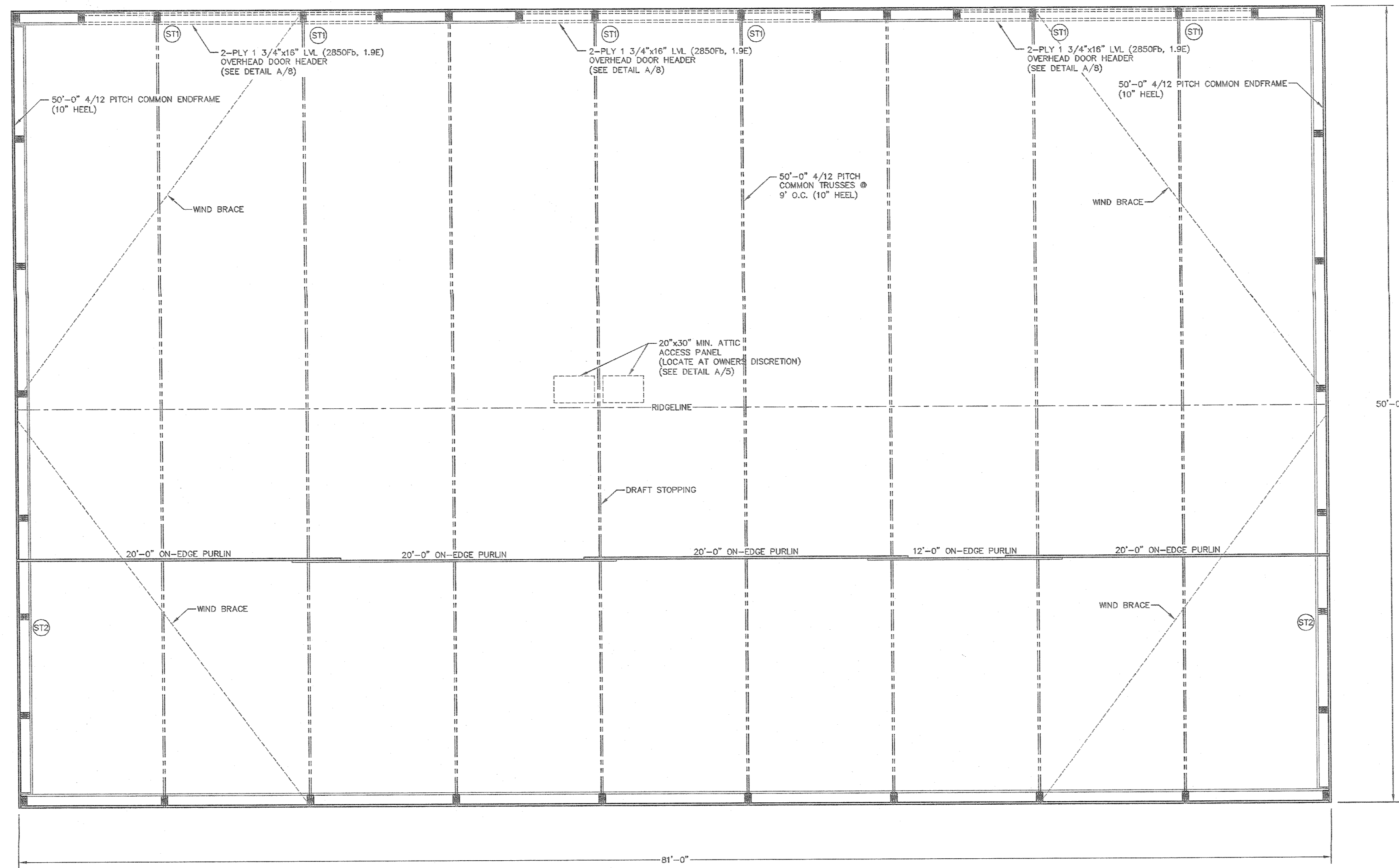
PROF. ENGINEER: RYAN READER
PLAN DESIGNER: RYAN READER
DRAWN BY: JMS
DATE: 8/2/2019
SCALE: AS NOTED

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		

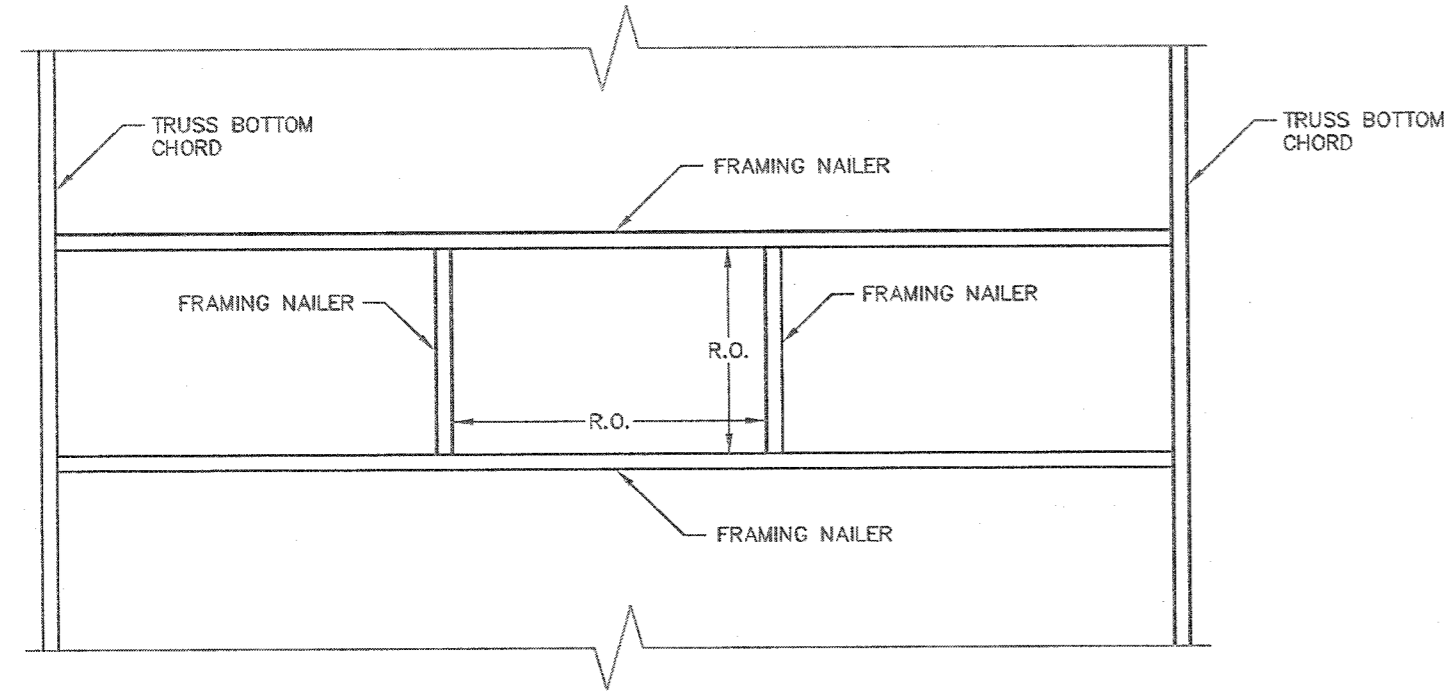
SHEET TITLE:
FLOOR PLAN AND COLUMN & FOOTING SCHEDULE

FILE NAME: S16419W
SHEET NO.

S4



ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



ATTIC ACCESS FRAMING DETAIL
SCALE: 3/4"=1'-0"

NOTE: ATTIC AREA SHALL BE COMPARTMENTALIZED INTO AREAS NOT GREATER THAN 3000 SQ. FT. BY FIRE STOPPING AS SPECIFIED IN IBC 718.4.3. EVERY ATTIC COMPARTMENT SHALL BE PROVIDED WITH A 20'x30' ACCESS PANEL FROM LOWER AREA OR ACCESS PANELS IN COMPARTMENT WALLS SHALL BE PROVIDED WITH SELF-CLOSING DEVICES. (INCLUDES OVERHANGS)

STUB COLUMN SCHEDULE		
COLUMN LOCATION	COLUMN DESCRIPTION	NUMBER OF COLUMNS
ST1	3-PLY 2x8-(4') #2 SPF STUB COLUMN (CUT TO FIT)	6
ST2	3-PLY 2x8-(8') #2 SPF STUB COLUMN (CUT TO FIT)	2

NOTE:
2x4 2100F MSR SPF ROOF PURLINS (ON-EDGE). THE FIRST (5) ROWS OF PURLINS AFTER THE PEAK PURLIN SHALL BE AT 22' O.C. WITH THE BALANCE AT 24' O.C. ROOF PURLINS ARE TO BE SECURED TO THE TRUSS W/(1)-604 THREADED HARDENED STEEL NAIL AT EACH PURLIN TO TRUSS LOCATION. FOR PURLIN OVERLAP SEE DETAIL D/B

NOTE:
WIND BRACE SHALL BE A 2x4 #2 SPF PLACED ON THE UNDERSIDE OF THE ROOF PURLINS. WIND BRACE SHALL BE SECURED W/(2)-504 THREADED HARDENED STEEL NAILS AT EACH END AND W/(1)-104 THREADED HARDENED STEEL NAIL AT EACH BRACE TO PURLIN LOCATION.

NOTE:
LATERAL BRACING IS REQUIRED. SEE TRUSS SPECIFICATION SHEET(S) FOR LATERAL BRACE LOCATIONS.

ENGINEERING SERVICES
8011 KATIE RD. BLDG CLARENCE, NY 14709 (716) 676-3500

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ENGINEERING@MIDWESTMANUFACTURING.COM

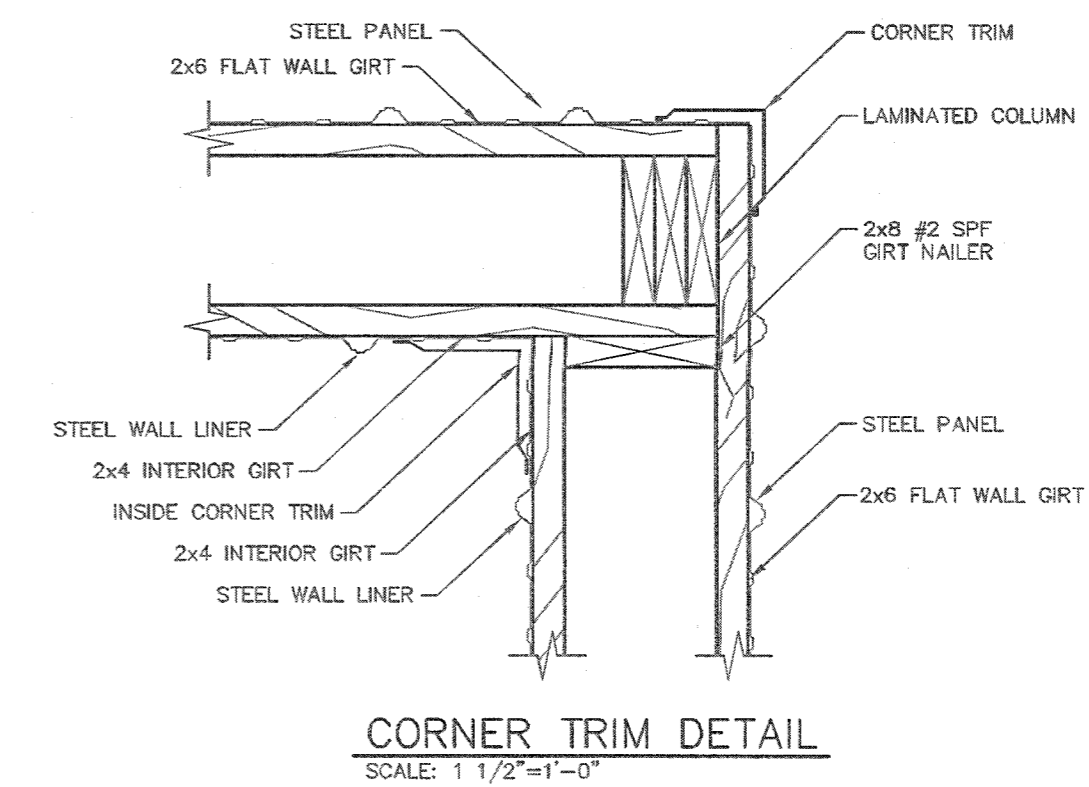
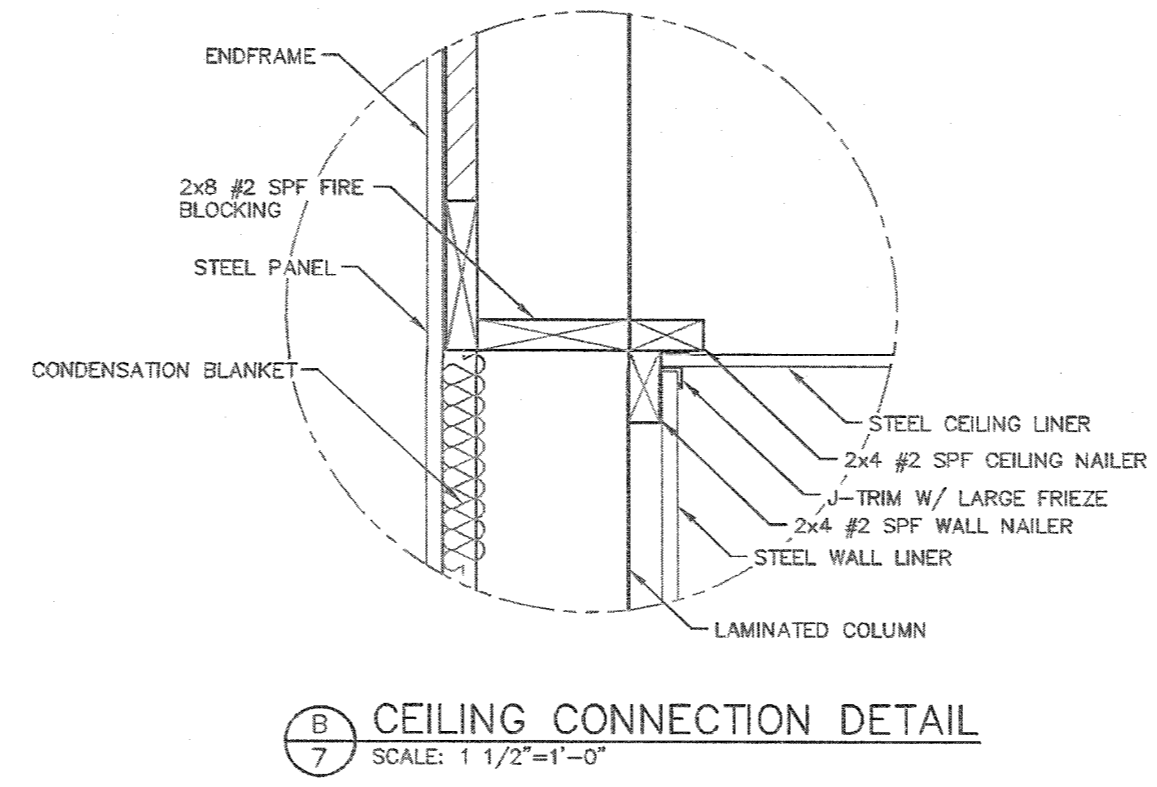
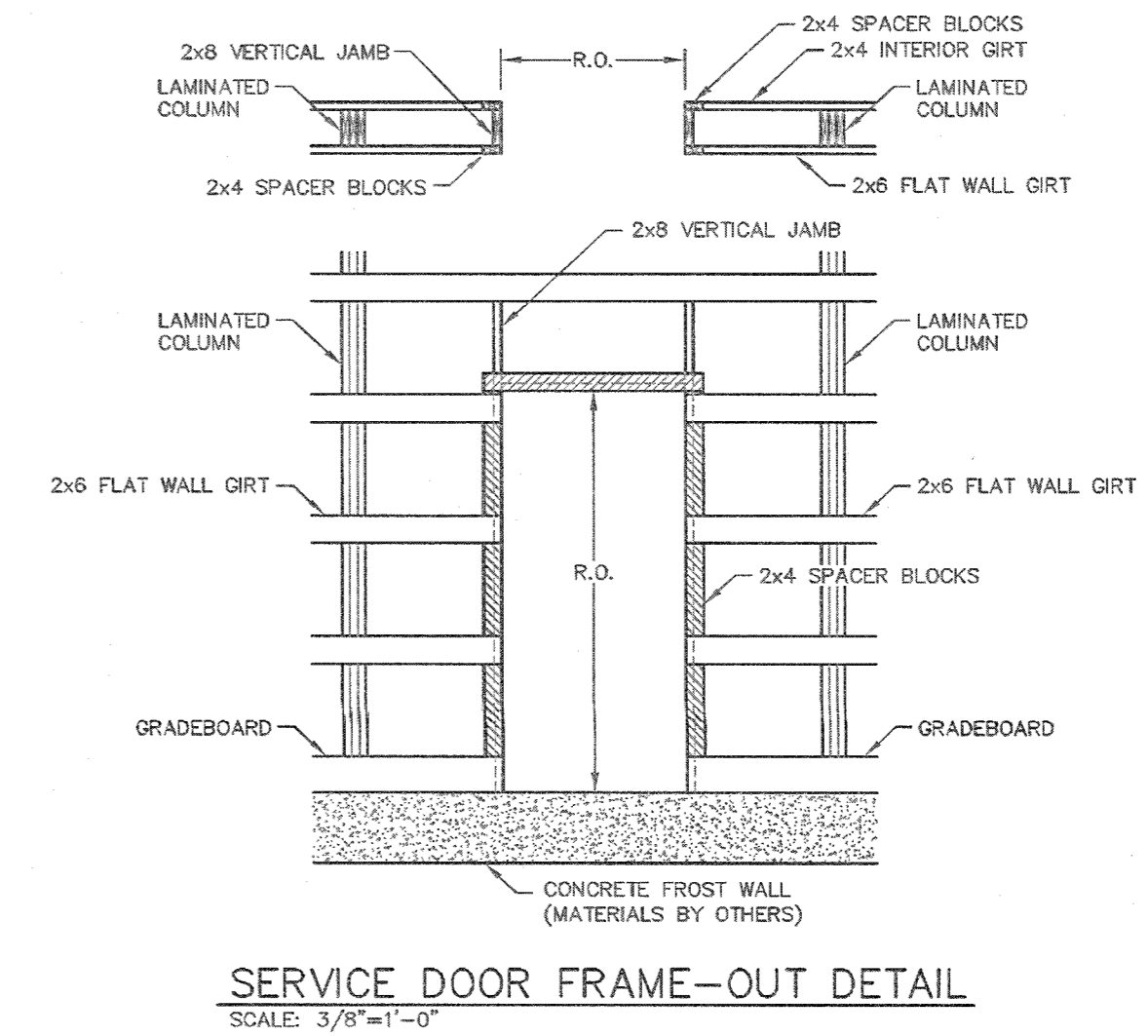
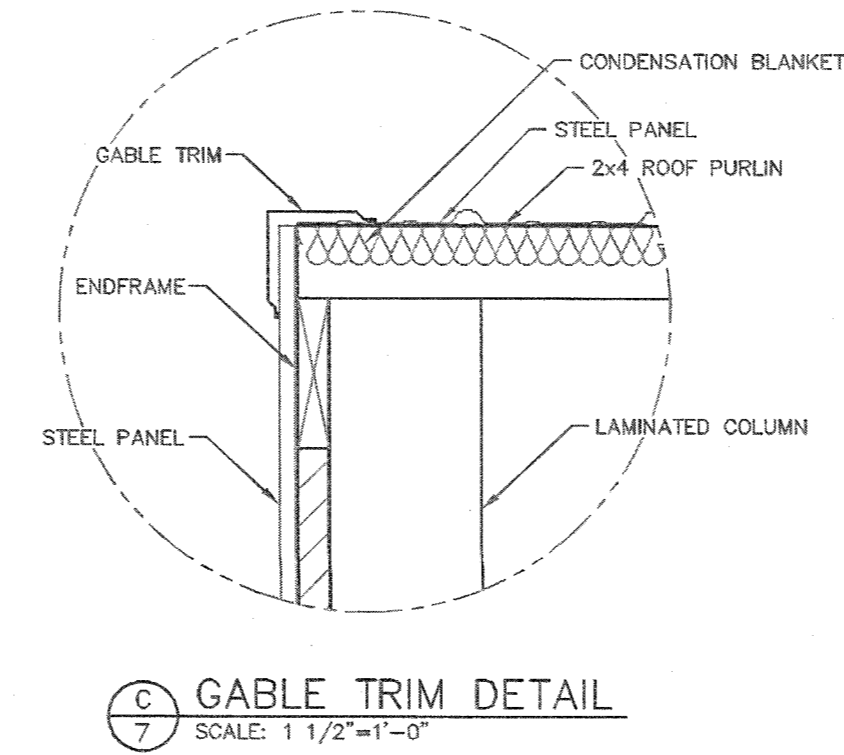
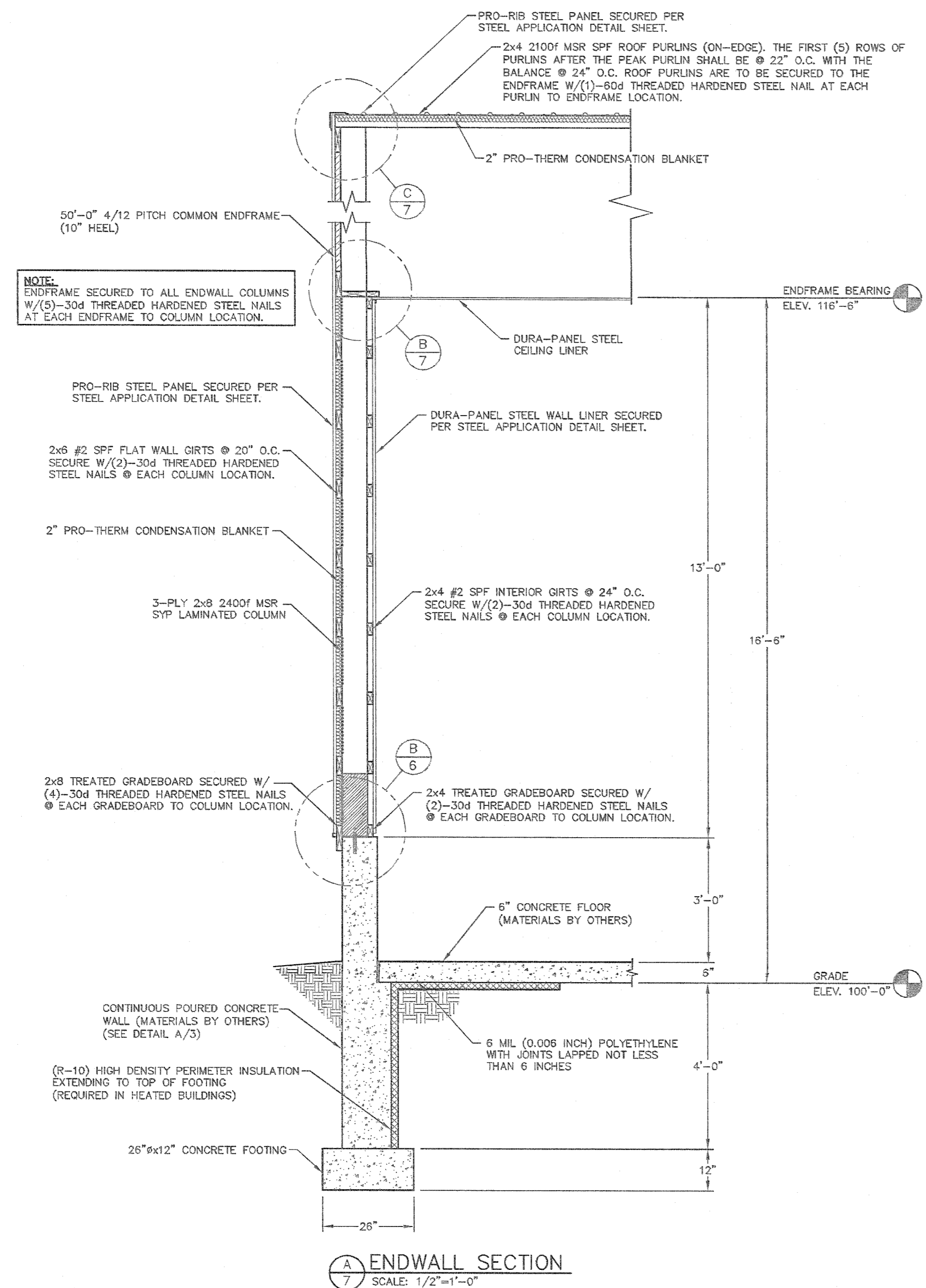
PROJECT TITLE:
SHOP II STORAGE BUILDING
MANCHESTER, WI

PROF. ENGINEER: RYAN READER
PLAN DESIGNER: RYAN READER
DRAWN BY: JMS
DATE: 8/2/2019
SCALE: AS NOTED

REVISIONS			
NO	DATE	DESCRIPTION	BY
1			
2			

SHEET TITLE:
ROOF FRAMING PLAN AND STUB COLUMN SCHEDULE

FILE NAME: S16419WI
SHEET NO. **S5**



AAA
ENGINEERING SERVICES
8701 STATE RD. SAJID CLARK WY 54703 (716) 876-5566

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PROJECT TITLE:
SHOP II STORAGE BUILDING

MANCHESTER, WI

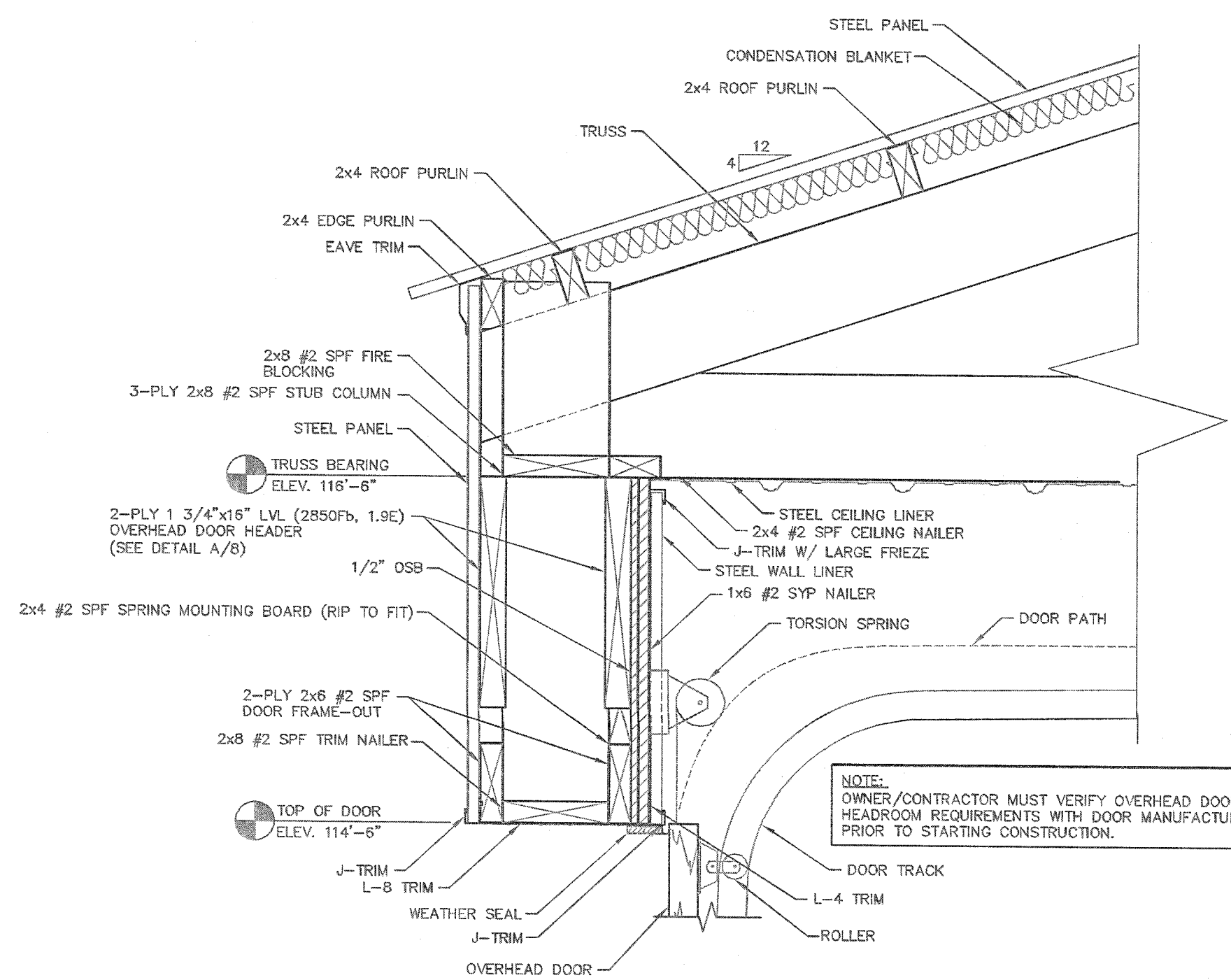
PROF. ENGINEER: RYAN READER
PLAN DESIGNER: RYAN READER
DRAWN BY: JMS
DATE: 8/2/2019
SCALE: AS NOTED

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		

SHEET TITLE:
ENDWALL SECTION AND SECTION DETAILS

FILE NAME: S16419WI
SHEET NO.

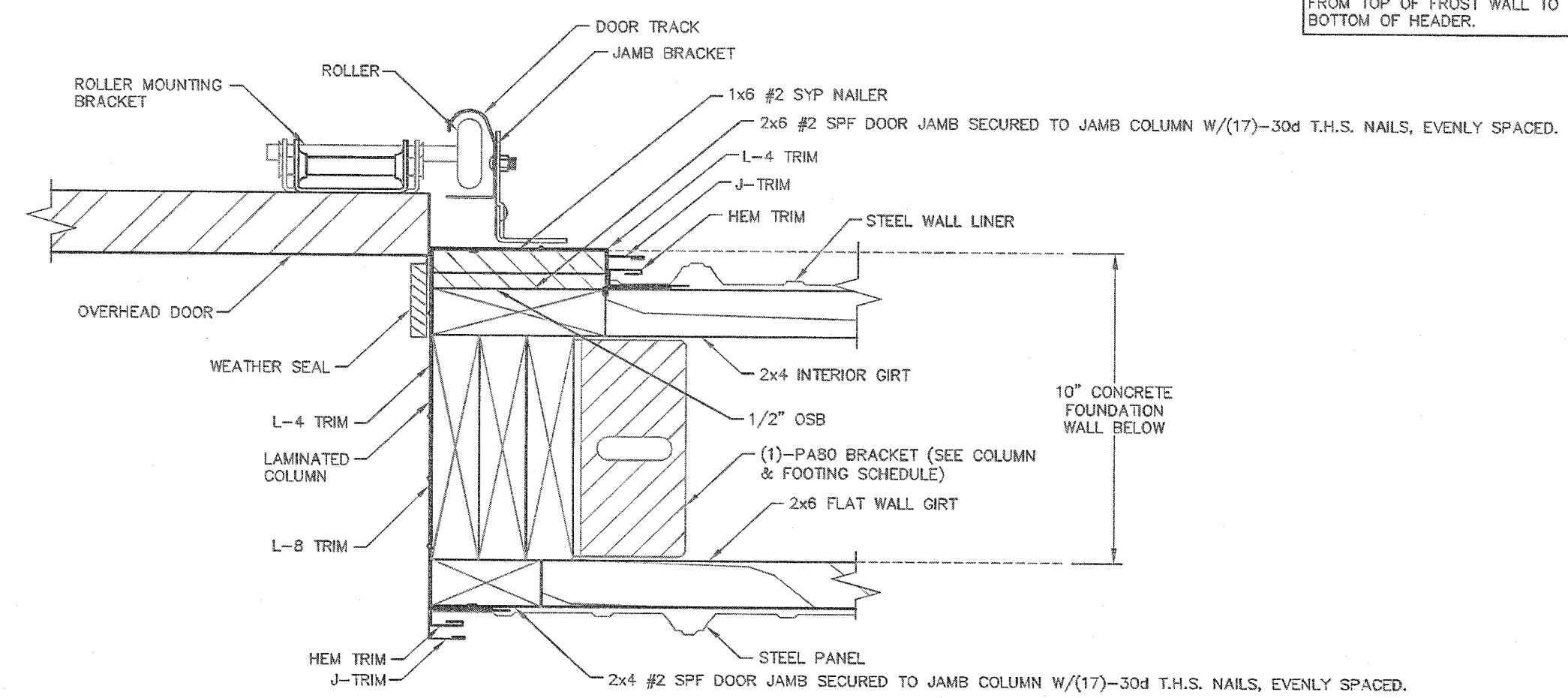
S7



SIDEWALL OVERHEAD DOOR FRAME-OUT DETAIL
SCALE: 1 1/2"=1'-0"

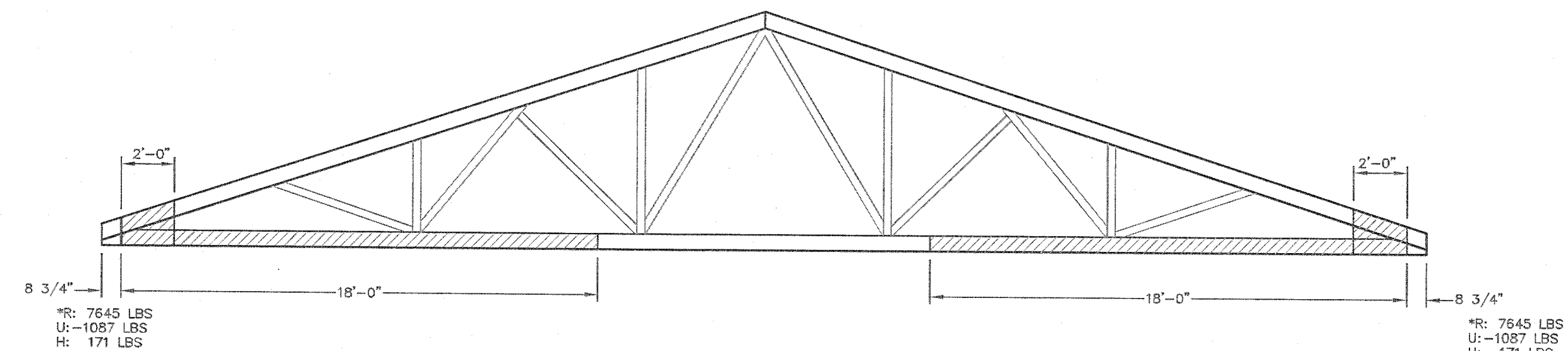
NOTE:
1/2" OSB x 5 1/2" FURRING STRIPS @ JAMBS.

NOTE:
OWNER/CONTRACTOR MUST VERIFY OVERHEAD DOOR HEADROOM REQUIREMENTS WITH DOOR MANUFACTURER PRIOR TO STARTING CONSTRUCTION.



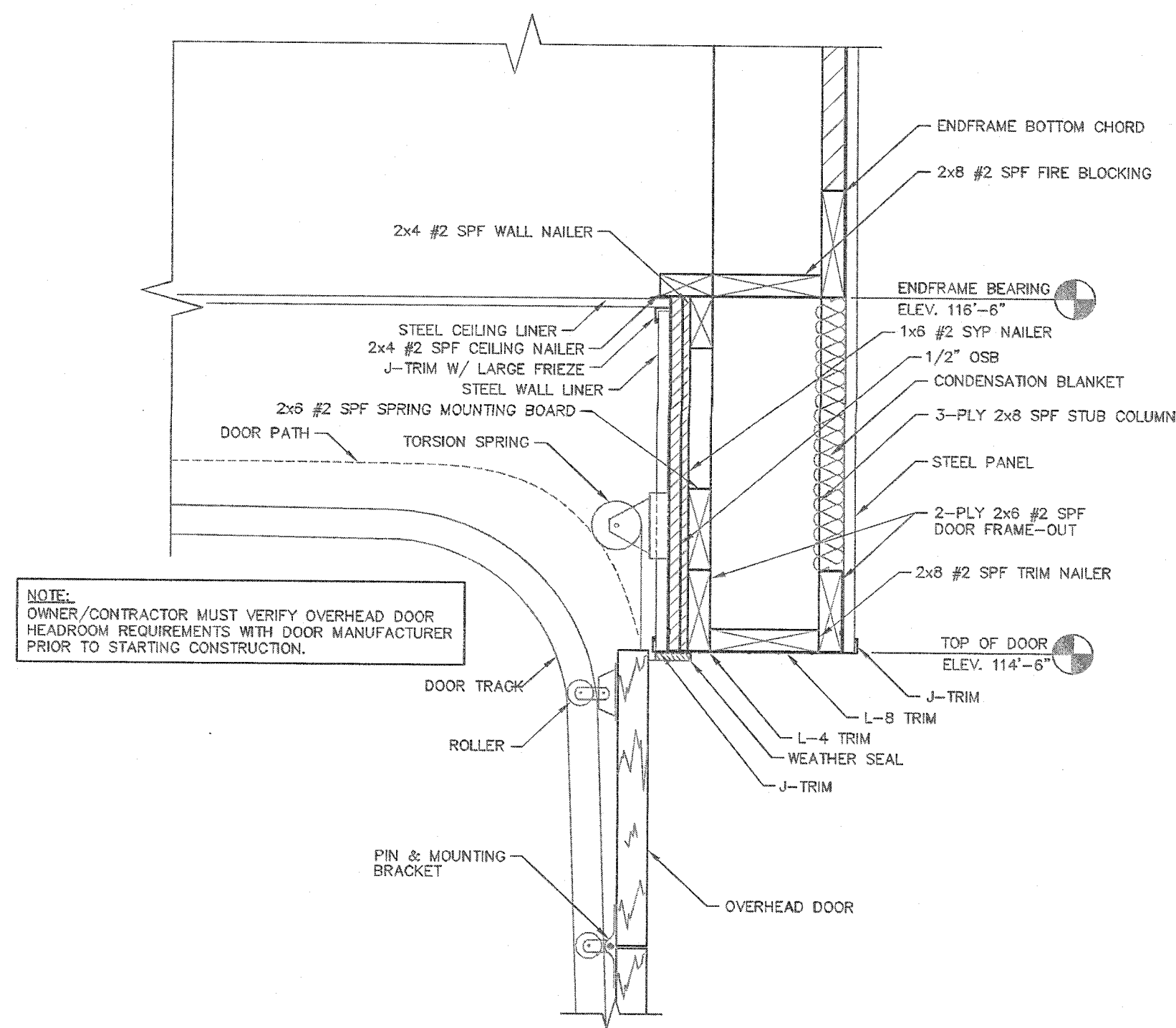
OVERHEAD DOOR JAMB DETAIL
SCALE: 3"=1'-0"

NOTE: DOOR JAMBS TO EXTEND FROM TOP OF FROST WALL TO BOTTOM OF HEADER.



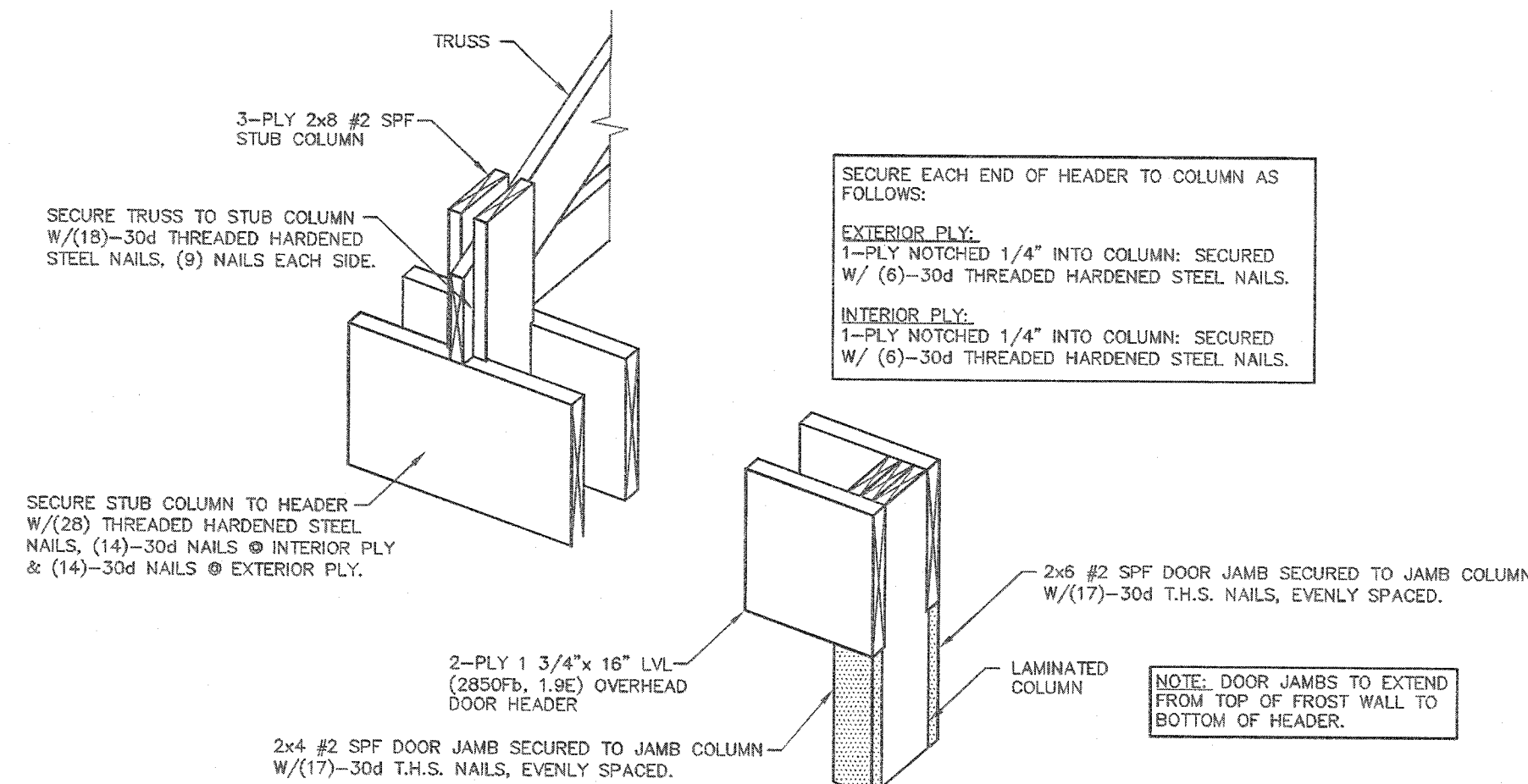
P50 TRUSS REINFORCEMENT DETAIL
SCALE: 1/4"=1'-0"

- 1) ATTACH (2) 3/4" PLYWOOD TO TRUSS WITH CONSTRUCTION GRADE WATERPROOF GLUE (PL400 OR BETTER) & (2) STAGGERED ROWS OF 12d COMMON NAILS OR EQUIVALENT, AT 4" O.C. TO EVERY CONTACT MEMBER; STAGGER ROWS ON OPPOSING SIDES, (1) PLYWOOD ON EACH SIDE OF TRUSS.
- 2) ATTACH (1) 2x6 2400f MSR SYP/2.0E SCAB TO TRUSS WITH CONSTRUCTION GRADE WATERPROOF GLUE (PL400 OR BETTER) AND (2) STAGGERED ROWS OF 12d COMMON NAILS, OR EQUIVALENT, AT 4" O.C. ATTACH PLYWOOD FILLER BETWEEN THE CHORD OF THE TRUSS AND SCAB, AS NEEDED. INSTALL PLYWOOD PER STEP 1. INSTALL AFTER PLYWOOD GUSSETS ARE APPLIED.

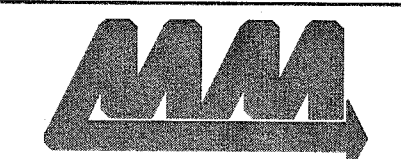


ENDWALL OVERHEAD DOOR FRAME-OUT DETAIL
SCALE: 1 1/2"=1'-0"

NOTE:
OWNER/CONTRACTOR MUST VERIFY OVERHEAD DOOR HEADROOM REQUIREMENTS WITH DOOR MANUFACTURER PRIOR TO STARTING CONSTRUCTION.



SIDEWALL OVERHEAD DOOR HEADER INSTALLATION DETAIL
SCALE: NOT TO SCALE



ENGINEERING SERVICES

5001 N. STATE ST. SUITE 200, WEST MILWAUKEE, WI 53091 (414) 870-8000

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PROJECT TITLE:

SHOP II STORAGE BUILDING

MANCHESTER, WI

PROF. ENGINEER: RYAN READER

PLAN DESIGNER: RYAN READER

DRAWN BY: JMS

DATE: 8/2/2019

SCALE: AS NOTED

REVISIONS

NO	DATE	DESCRIPTION	BY
1			
2			

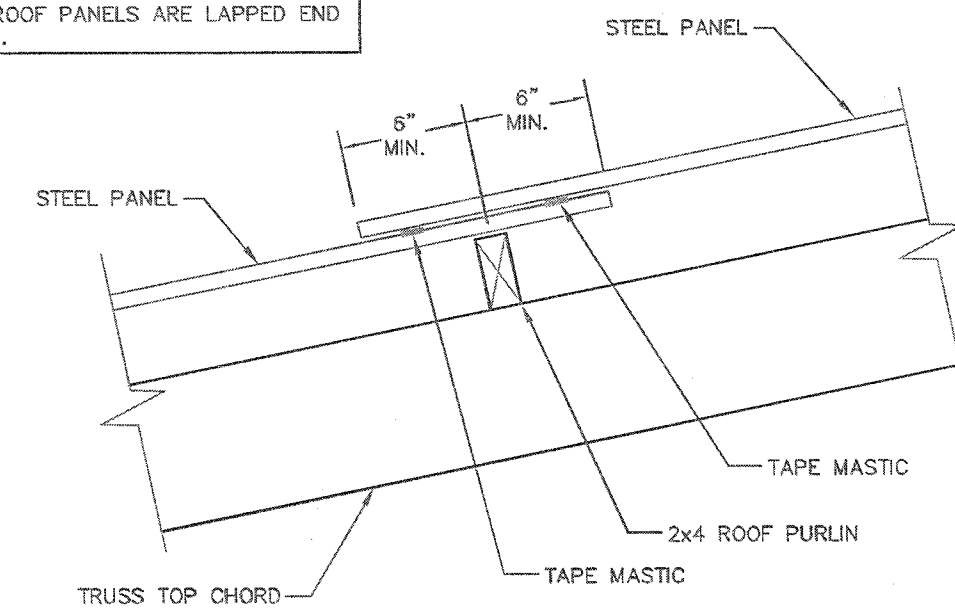
SHEET TITLE:
OVERHEAD DOOR DETAILS

FILE NAME: S16419W

SHEET NO.

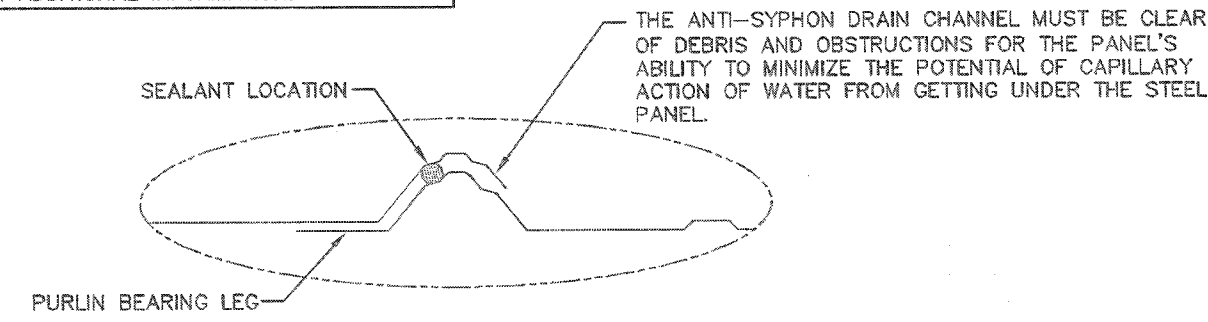
S8

NOTE: TAPE MASTIC IS ONLY REQUIRED WHEN ROOF PANELS ARE LAPPED END TO END.

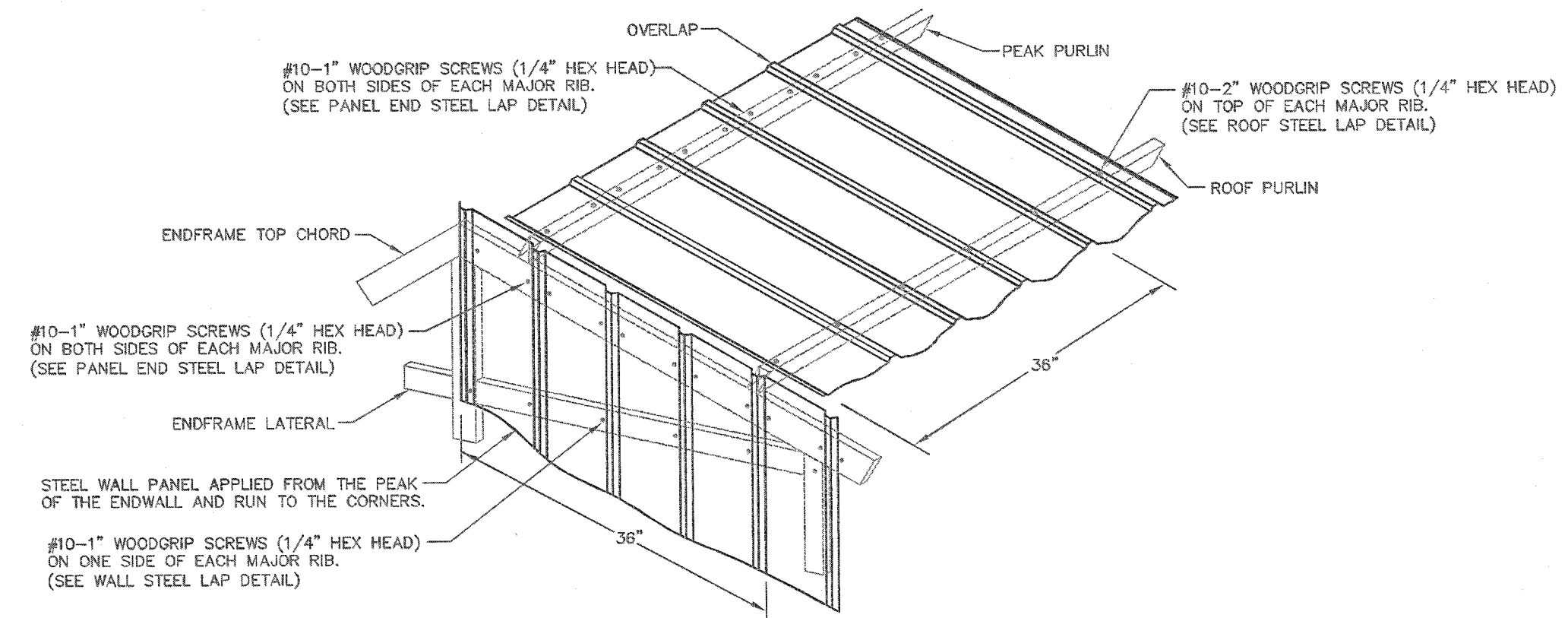


TAPE MASTIC DETAIL
SCALE: 1 1/2" = 1'-0"

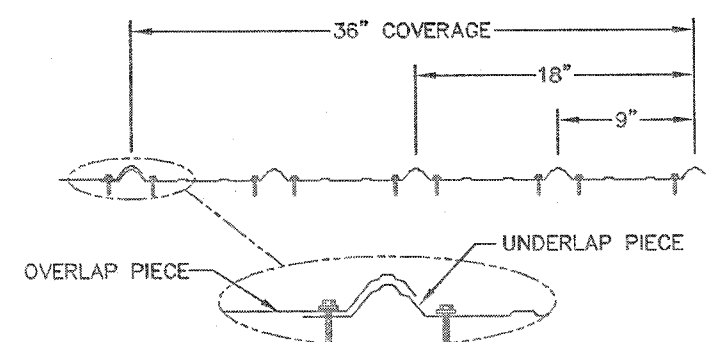
NOTE: BEAD MASTIC IS REQUIRED FOR LOW SLOPED ROOFS ONLY. SEE IBC CHAPTER 15 FOR ADDITIONAL INFORMATION.



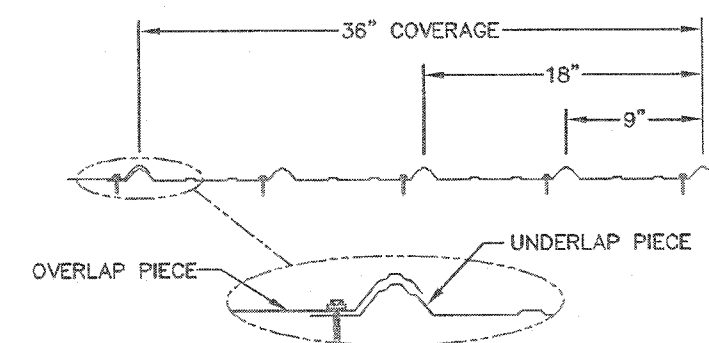
BEAD MASTIC DETAIL
NOT TO SCALE



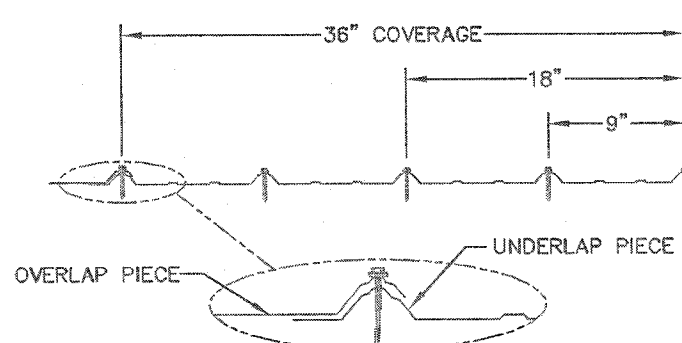
ROOF & ENDWALL STEEL APPLICATION @ GABLE PEAK & INTERMEDIATE



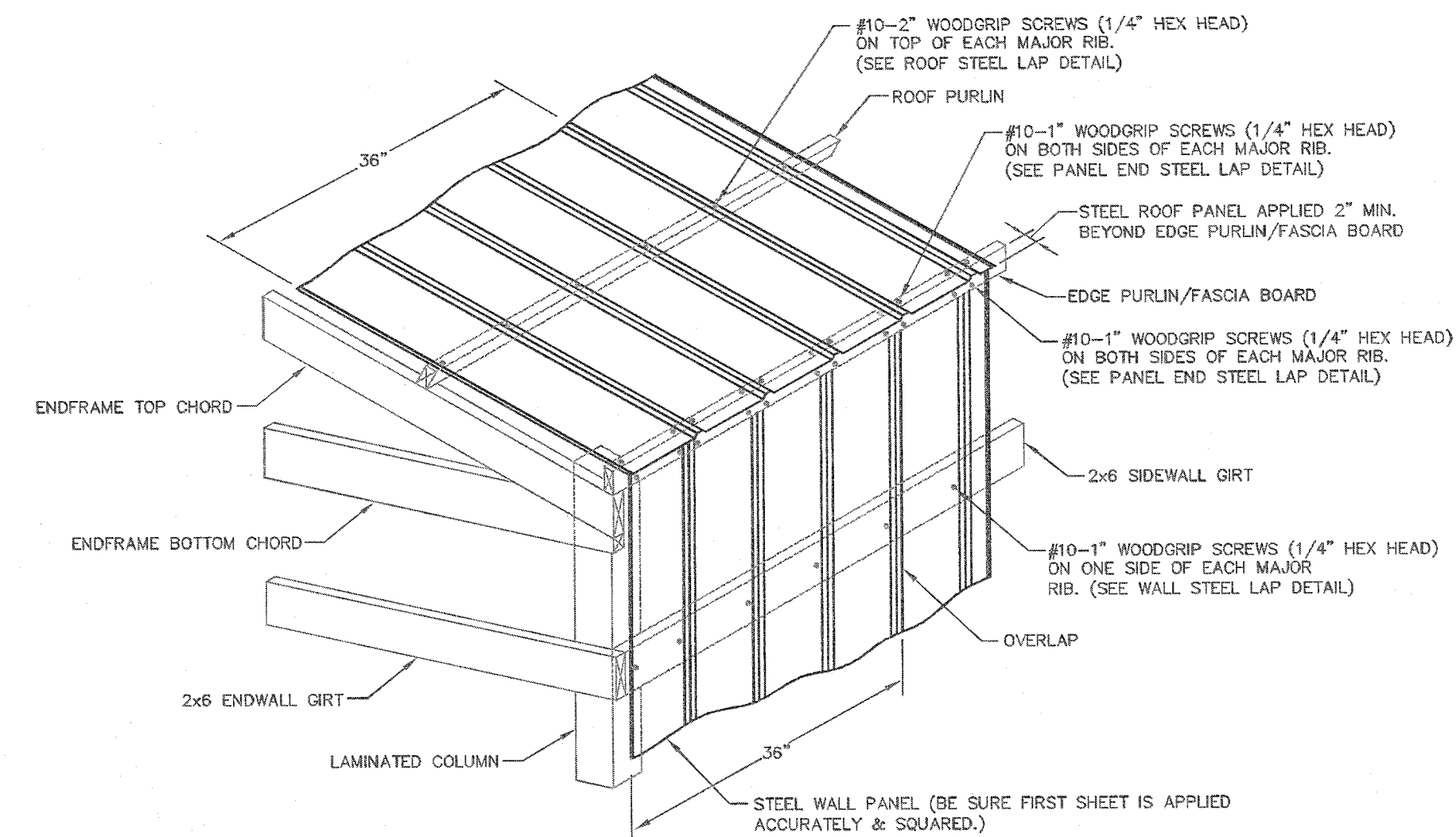
PANEL END STEEL LAP DETAIL
NOT TO SCALE



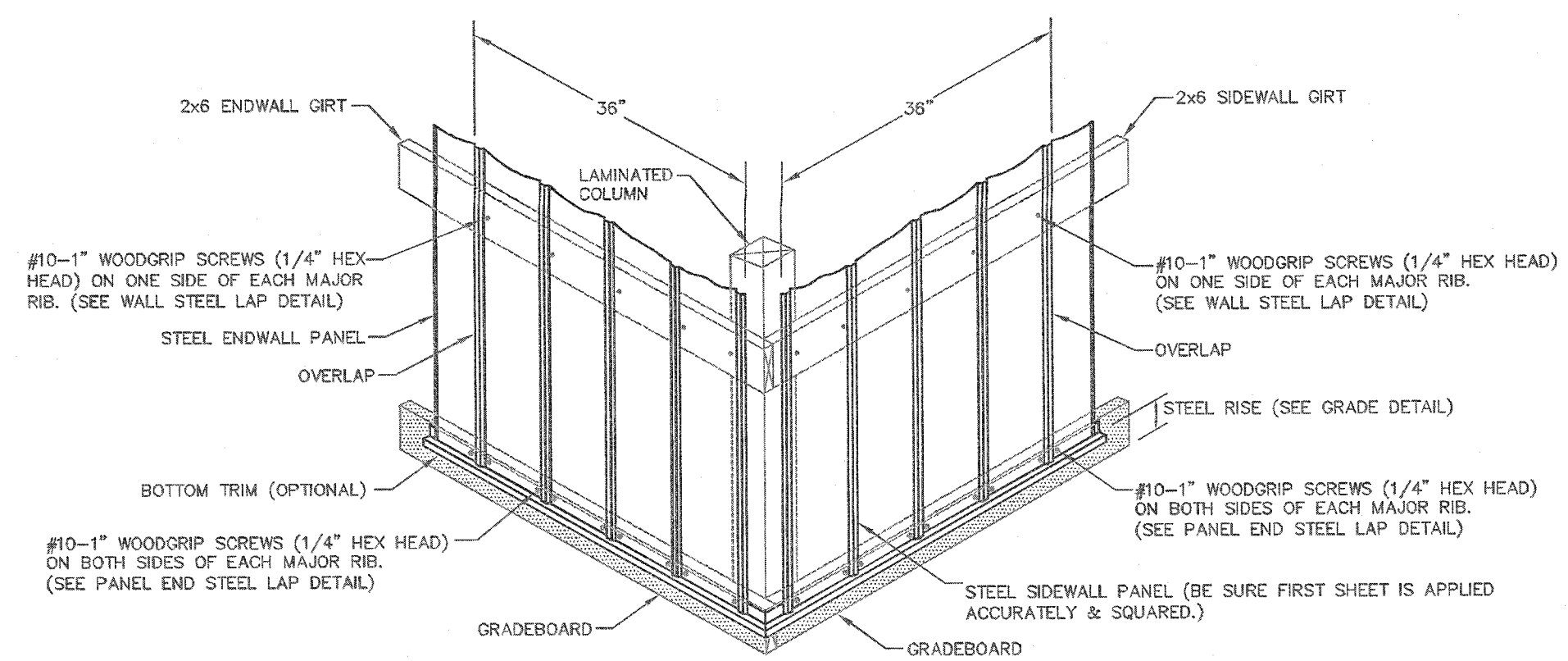
WALL STEEL LAP DETAIL
NOT TO SCALE



ROOF STEEL LAP DETAIL
NOT TO SCALE

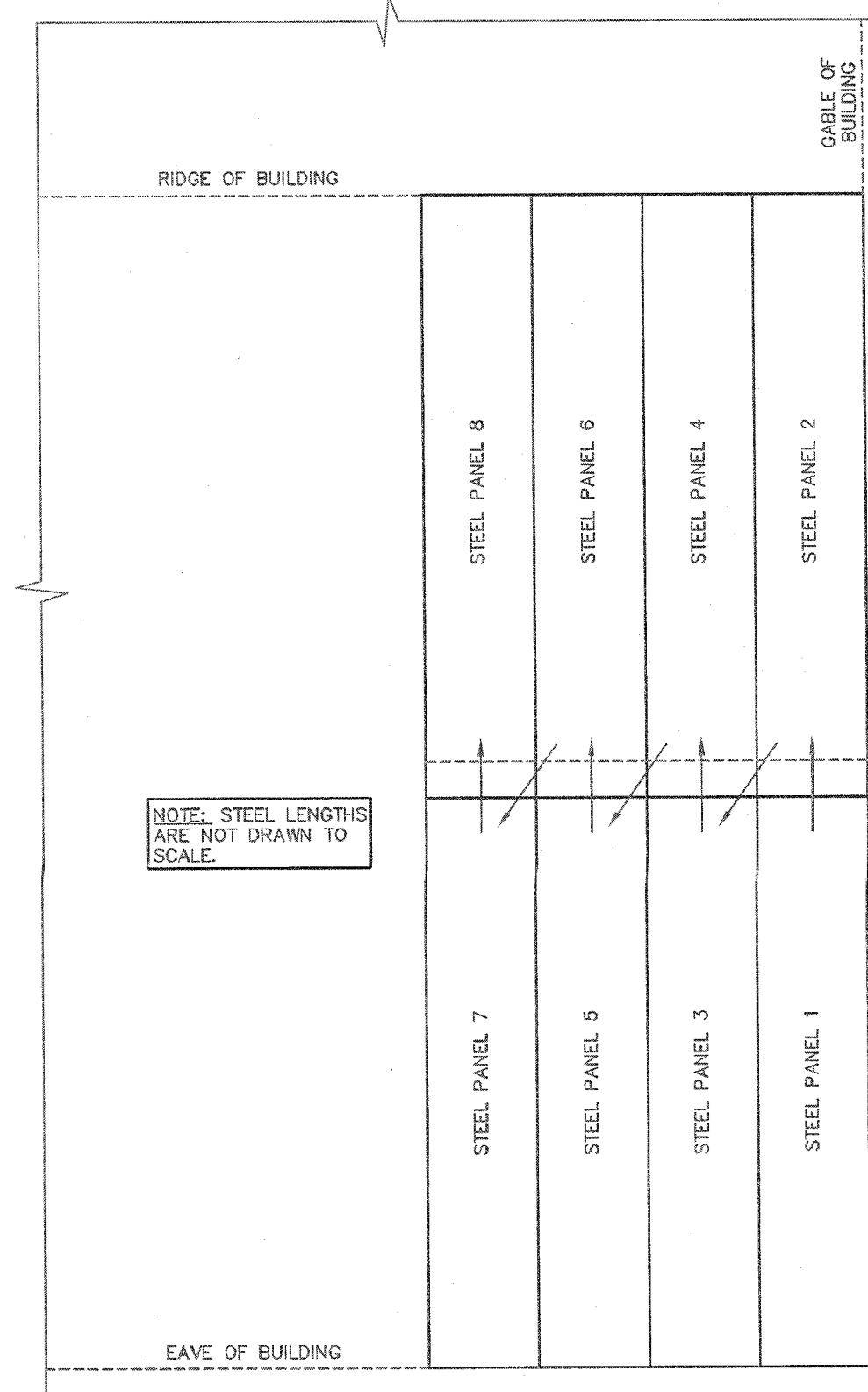


ROOF & SIDEWALL STEEL APPLICATION @ EAVE



WALL STEEL APPLICATION @ GRADEBOARD

STEEL APPLICATION DETAILS



ROOF STEEL APPLICATION SEQUENCE
NOT TO SCALE

STEEL PANEL INSTALLATION GENERAL NOTES:

- 1) PROPER LAPPING OF STEEL PANEL IS VERY IMPORTANT IN THE PANEL'S ABILITY TO PREVENT LEAKING. OVERSEATING AND UNDERSEATING OF LAP IS NOT PERMITTED.
- 2) FASTENER TIGHTNESS IS CRITICAL IN THE LONGEVITY OF THE FASTENER'S ABILITY TO HELP PREVENT LEAKS AND STRUCTURAL LOAD CARRYING CAPACITY. OVER-TORQUING OF SCREWS WILL REDUCE THE SCREWS WITHDRAWAL CAPACITY, REGARDLESS OF THE CONSTRUCTION MATERIALS INVOLVED. UNDER-TORQUING OF SCREWS WILL INCREASE THE POTENTIAL OF ROOF LEAKS.
- 3) FASTENER LOCATION IS CRITICAL FOR INSTALLERS TO MINIMIZE THE POTENTIAL OF OIL CANNING, DIMPLES, AND OTHER APPEARANCE RELATED ISSUES.
- 4) THE ANTI-SYPHON DRAIN CHANNEL MUST BE CLEAR OF DEBRIS AND OBSTRUCTIONS FOR THE PANEL'S ABILITY TO MINIMIZE THE POTENTIAL OF CAPILLARY ACTION OF WATER FROM GETTING UNDER THE STEEL PANEL.



ENGINEERING SERVICES
STEEL FABRICATION, ROOF CLADDING, W/ 64703 (761) 476-8568

FOR QUESTIONS PLEASE CONTACT BUILDING DESIGNER AT THE FOLLOWING:
ENGINEERING@MIDWESTMANUFACTURING.COM

PROJECT TITLE:
SHOP II STORAGE BUILDING

MANCHESTER, WI

PROF. ENGINEER: RYAN READER
PLAN DESIGNER: RYAN READER
DRAWN BY: JMS
DATE: 8/2/2019
SCALE: AS NOTED

REVISIONS

NO.	DATE	DESCRIPTION	BY
1			
2			

SHEET TITLE:
STEEL APPLICATION DETAILS

FILE NAME: S16419WI
SHEET NO.

S9



REQUEST FOR PURCHASE APPROVAL

Item To Be Purchased:

Holding Tank for domestic Wastewater - Shop 2 Facility

Department: Highway

Account Number: 19-701-29-53270-245-000

Governing Committee: Highway

Governing Committee Approval Date:

P&I Approval Date:

Reason for Purchase:

The current septic system has failed and needs replaced.

Quotes Received From: Egbert Excavating \$6480.00

Kinas Excavating \$7065.00

Jason Pollesch Not Received

EGBERT EXCAVATING, INC.

Proposal

W1302 North Lawson Drive, P.O. Box 462, Green Lake, Wisconsin 54941

Phone 920-294-6668, Fax 920-294-3055

egbertexc@centurytel.net

Proposal Submitted to	Phone	Date
Green Lake County	920-229-5116	9-26-19
Highway Department	bpence@co.green-lake.wi.us	
Attn: Barry Mashuda	bmashuda@co.green-lake.wi.us	
Street	Job Name	
570 South Street	Shop II - Holding Tank	
City, State and Zip Code	Job Location	
Green Lake, WI 54941	N1906 State Road 73- Manchester	

1. Provide county permit and system design
2. Pump and remove old system
3. Install new 2500 gallon concrete holding tank with warning alarm and locking cover

TOTAL \$6,480.00

NOTE: Tank and piping to be backfill with clean gravel

We Propose hereby to furnish material and labor complete in accordance with above specifications, for the sum of: **Six Thousand Four Hundred Eighty Dollars and 0/100-----(\$6,480.00).**

Please provide us with verification of method of payment. If payment in full is not received within fifteen (15) days from the date of completed work, EGBERT EXCAVATING, INC. intends to file a claim for lien on your property.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon witness orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Authorized Signature: Daniel L. Egbert
DANIEL L. EGBERT

Note: This proposal may be withdrawn by us if not accepted within _____ days.

ACCEPTANCE OF PROPOSAL- The above prices, specifications and conditions are satisfactory and are hereby accepted. You are do the work as specified. Payment will be made as outlined above.
of Acceptance: _____
of Acceptance: _____

Signature: _____ authorized to

Signature: _____ Date

Kinas Excavating, Inc.

Basements • Driveways • Septic systems - all types • Mound Systems
 Site Preparation • Land Clearing • Demolition • Topsoil • Trucking • Hazardous Waste Removal
 Soil and Site Evaluation • Sewer & Water - mains, laterals, repairs • Small Ponds • Rip-rapping • Ditch Cleaning
N6205 Lawson Drive, Green Lake WI 54941
Green Lake (920) 294-3879 • Markesan (920) 398-3431 • Fax (920) 294-3455

COMPANY Green Lake County Highway Dept.	CELL: 920-229-5116	DATE 9/26/19
PROPOSAL SUBMITTED TO Attn: Barry Mashuda	PHONE 920-294-4060	FAX
STREET 570 South St.	JOB LOCATION Shop #2 Markesan	
CITY, STATE, AND ZIP CODE Green Lake, WI 54941	JOB NAME	

We hereby submit specifications and estimates for:

Proposal for installation of a Holding Tank to include:

- A. Dig out and remove old septic tank. (Pumping to be done by owner)
 - B. Install (1) 2500 gallon precast concrete holding tank with 6" pump out port and plastic resin riser. (This will make a leak proof sealed tank)
 - C. Reconnect to existing 4" line from building.
 - D. Install high water warning device. (We will need a 110 volt power supply brought to outer wall of shop building.)
 - E. Backfill tank and relevel to rough finish grade.
- (A-E) \$6,360.00
- F. Plot & Layout and System Design (\$250.00), County Permit (\$455.00) ARE NOT included in this proposal and will be billed separately.
- Grand Total \$7,065.00

Option: Install Zypex additive to concrete mix add \$1,500.00 to proposal. (This will give tank a 20 year warranty) I would highly recommend doing this.

Note: Holding Tank for floor drains on rear of shop would be an additional \$600.00. (Green Lake County permit would not be required but a DNR permit would.)

Note: Any private utilities not marked by digger's hotline will be the home owner's responsibility.

Note: It is owners' responsibility to make sure all lot lines are clearly marked and accurate.

***Note: Kinas Excavating, Inc. will not be responsible for settling that may occur.**

Please, call if you have any questions regarding this proposal or any extra work that is not spelled out in this Proposal.

Please, call if you have any questions regarding this proposal or any extra work that is not spelled out in this Proposal. If this proposal is acceptable please sign, date and return so we may schedule. Thanks.

We Propose hereby to furnish material and labor - complete in accordance with the above specifications, for the sum of:

Please See Above.

Payment to be made as follows:

Please provide us with verification of method of payment. If payment in full is not received within thirty (30) days from the date of completed work, Kinas Excavating, Inc. intends to file a claim for lien on your property. You are hereby notified that persons or companies furnishing labor or materials for the construction on your property located at: Shop #2 Markesan may have lien rights on your land and buildings if they are not paid. Those entitled to lien rights, in addition to the undersigned prime contractor, are those who contract directly with you or those who give you identification notice within sixty (60) days after they first furnish labor or materials for the construction. You probably will receive notices from those who furnish labor and materials for the construction. You should give a copy of each notice you receive to your mortgage lender, if any. The undersigned prime contractor agrees to cooperate with you and your lender, if any, to see that all potential lien claimants are duly paid. A finance charge of 1.5% (18% per annum) will be charged on the unpaid balance after 30 days.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be in addition to proposal amount. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized
 Signature Bill Kinas /Bill Kinas

Note: This proposal may be
 withdrawn by us if not accepted within 30 Days

Acceptance of Proposal - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature _____

Signature _____

Date of Acceptance: _____

GREEN LAKE COUNTY 2020 BUDGET

Rev 1 - 09/17/19

	----- 12/31/2017 -----	----- 12/31/2018 -----	----- ACTUAL 6/30/2019 -----	----- 2019 REVISED -----	----- 2020 PROPOSED -----	Difference
COUNTY ROADS & BRIDGES						
20-211-29-53309-000-000 COUNTY SUPERVISION	284	29,778	77,592	118,778	130,859	12,080.93
20-211-29-53310-000-000 GENERAL MAINTENANCE - CTH'S	709,874	989,121	440,760	1,046,237	1,001,260	(44,976.71)
20-211-29-53311-000-000 WINTER MAINTENANCE - CTH'S	659,097	632,185	661,516	700,526	751,260	50,734.46
20-211-29-53312-000-000 BRIDGE MAINTENANCE & INSPECTIONS - CTH'S	7,571	15,920	-	10,497	13,485	2,988.10
20-211-29-53313-000-000 RECONSTRUCTION - CTH'S	1,110,166	945,904	120,466	1,255,372	2,073,362	817,990.06
20-211-29-53314-000-000 OVERLAY	521,077	307,741	-	-	-	
20-211-29-53315-219-000 CHIP SEAL COAT	244,165	225,118	834	247,734	240,598	(7,136.21)
20-211-29-53316-219-000 RUBBER CRACK FILLING	150,850	248	-	-	-	
20-211-29-53317-000-000 BRIDGE CONSTRUCTION - CTH'S	5,626	401	14,211	83,804	87,193	3,388.58
20-211-29-53380-000-000 FAIR	9,215	-	-	-	-	
20-211-29-53591-000-000 RAILROAD	25,000	25,000	25,000	25,000	25,000	0.00
20-211-29-57100-532-000 CAPITAL OUTLAY BUILDING	-	-	-	-	-	
TOTAL EXPENDITURES	3,442,923	3,171,416	1,340,379	3,487,948	4,323,017	835,069.22

FINANCING PROPOSAL

20-211-29-41110-000-000 GENERAL PROPERTY TAXES	2,579,047	2,667,691	2,682,751	2,682,751	2,682,751	
20-211-29-43531-000-000 CTH'S REVENUE FROM STATE	719,800	807,360	250,822	805,197	802,510	
20-211-29-49210-000-000 ????? TRANSFER FROM ????	250,000	-	-	-	500,000	
20-211-29-ROAD/BRIDGE FUND UNRESTRICTED					337,756	
TOTAL REVENUES	3,548,847	3,475,051	2,933,573	3,487,948	3,985,261	

COUNTY APPROPRIATION

2,682,751

GREEN LAKE COUNTY 2020 BUDGET

HIGHWAY SUMMARY	----- 12/31/2017 -----	----- 12/31/2018 -----	----- ACTUAL 6/30/2019 -----	----- 2019 REVISED -----	----- 2020 PROPOSED -----	Difference
53110						
HIGHWAY ADMINISTRATION	278,154	240,295	111,733	238,808	257,965	19,157.00
53309						
COUNTY SUPERVISION	271	28,455	73,796	113,598	125,152	11,554.00
53191						
SUPERVISION	123,625	130,335	62,556	120,833	121,199	366.00
53192						
RADIO EXPENSES	5,991	5,223	2,058	4,604	3,699	(905.00)
53193						
INSURANCE	28,485	20,484	-	21,563	21,880	317.00
53240						
MACHINERY OPERATIONS	(130,220)	(22,468)	(336,210)	-	-	
53281						
CAPITAL EQUIPMENT	-	-	87,324	340,569	298,181	(42,388.00)
53310						
GENERAL MAINTENANCE CTH'S	678,703	945,171	366,662	1,000,609	957,594	(43,015.00)
53311						
WINTER MAINTENANCE CTH'S	630,896	604,094	634,629	669,975	718,497	48,522.00
53312						
BRIDGE MAINTENANCE & INSPECTION	7,247	15,212	-	10,039	12,897	2,858.00
53313						
RECONSTRUCTION - CTH'S	1,062,665	903,874	114,437	1,200,624	1,982,940	782,316.00
53314						
OVERLAY	498,781	294,067	-	-	-	
53315						
CHIP SEAL COAT	233,718	215,115	798	236,930	230,105	(6,825.00)
53316						
RUBBER CRACK FILLING	144,396	237	-	-	-	
53317						
BRIDGE CONSTRUCTION - CTH'S	5,385	383	103,161	80,149	83,390	3,241.00
53321						
ROUTINE MAINTENANCE STATE	517,944	566,417	258,296	460,359	480,030	19,671.00
53333						
CITIES, TOWNS, VILLAGES	400,343	445,788	247,006	435,786	442,833	7,047.00
53334						
INTERDEPARTMENT CHARGES	105,109	99,709	31,935	90,000	85,577	(4,423.00)
TOTAL EXPENDITURES	4,591,493	4,492,392	1,758,181	5,024,446	5,821,939	797,493.00

	----- 12/31/2017 -----	----- 12/31/2018 -----	----- ACTUAL 6/30/2019 -----	----- 2019 REVISED -----	----- 2020 PROPOSED -----	
FINANCING PROPOSAL						
19-701-29-43531-001-000 CHIP PROGRAM	346,577	-	-	2,163	-	(2,163.00)
19-701-29-44201-000-000 UTILITY PERMITS	1,900	3,775	975	2,200	2,200	0.00
19-701-29-44202-000-000 BORINGS	1,200	-	-	-	-	
19-701-29-44203-000-000 OPEN CUT	325	-	-	-	-	
19-701-29-44204-000-000 AFTER THE FACT PERMIT	550	-	-	-	-	
19-701-29-44205-000-000 DRIVEWAY/ ROW PERMITS	750	1,600	200	2,000	1,500	(500.00)
19-701-29-44206-000-000 DRIVEWAY ALTERATION	400	-	-	-	-	
19-701-29-44260-000-000 OVERSIZE/OVERWEIGHT PERMITS	1,425	1,125	425	800	1,000	200.00
19-701-29-44261-000-000 MULTI-TRIP PERMITS	2,225	1,900	1,500	2,000	1,800	(200.00)
19-701-29-47000-000-000 INTERGOVERNMENTAL CHARGES	-	-	-	-	-	
19-701-29-47230-000-000 STATE PBM	99,545	160,300	-	-	-	
19-701-29-47231-000-000 ROUTINE MAINTENANCE	436,346	415,563	228,293	440,282	480,030	39,748.00
19-701-29-47239-000-000 OTHER-SUP R&R-RADIO-GPL ETC	98,434	101,835	61,790	97,191	101,702	4,511.00
19-701-29-47292-000-000 STATE - ADMIN	23,626	23,776	11,486	24,293	26,310	2,017.00
19-701-29-47300-000-000 CITIES, VILLAGES, TOWNS, CTY	351,696	422,506	186,588	416,781	442,833	26,052.00
19-701-29-47392-000-000 LOCAL - ADMIN CHARGES	14,245	19,035	8,015	19,005	20,193	1,188.18
19-701-29-47410-000-000 INTERDEPARTMENTAL INVOICING	98,843	110,942	24,338	90,000	85,577	(4,423.00)
19-701-29-47430-000-000 CHARGES FOR SERVICES - CTH'S	3,283,176	3,063,196	1,258,028	3,330,587	4,110,575	779,988.00

	----- 12/31/2017 -----	----- 12/31/2018 -----	----- ACTUAL 6/30/2019 -----	----- 2019 REVISED -----	----- 2020 PROPOSED -----	
19-701-29-47492-000-000						
CTH'S ADMIN	146,335	139,803	57,792	151,875	187,442	35,567.00
19-701-29-48000-000-000						
MISCELLANEOUS REVENUES	1,946	6,389	48,268	83,481	96,536	13,055.00
19-701-29-48330-000-000						
SALE OF MATERIALS & SUPPLIES	-	-	119	3,500	1,000	(2,500.00)
19-701-29-48400-000-000						
INSURANCE RECOVERIES	1,216	1,919	1,667	1,600	2,000	400.00
19-701-29-48440-000-000						
REVENUE FROM COST OF SALES	12,831	22,160	12,954	14,000	24,000	10,000.00
NEW ACCOUNT						
FUND BALANCE APPLIED - EQUIPMENT				-	-	
FUND BALANCE APPLIED - UNRESERVED					237,241	237,241.00
TOTAL REVENUES	4,923,591	4,495,825	1,902,438	4,681,758	5,821,939	1,140,181.18

Green Lake County
6 Year - (2020-2025)
Highway Improvement Plan

2020					
Reconstruction:			Project Limits	Location	IMPROVEMENT ESTIMATE
CTH I	3.31 Miles		STH 44 - CTH A	Town of Mackford	\$1,165,583.00
CTH U	2.275 Miles		STH 73- CTH I	Town of Mackford	\$795,745.00
CTH D	0.75 Miles		STH 23 - N City of Princeton STP (60/40)	City of Princeton	\$12,483.00
TOTAL	6.335				\$1,973,811.00
Surface					
	TOTAL	0 Miles			\$0.00
Overlay					
	TOTAL	0 Miles			\$0.00
Chip Seal:					
CTH B	2.7 Miles		CTH O - STH 73		\$42,120.00
CTH I	2.5 Miles		STH 73/44 - CTH H		\$39,000.00
CTH N	1 Miles		STH 44 - CTH B		\$15,600.00
CTH O	3.21 Miles		Lovers Lane - CTH AW		\$50,076.00
CTH K	2 Miles		CTH H - Fond du Lac County Line		\$31,200.00
CTH KK	1 Miles		CTH H - CTH B		\$15,600.00
CTH B	2.34 Miles		CTH H/KK - STH 44		\$36,504.00
TOTAL	14.75				\$230,100.00
					Total
					\$2,203,911.00

**Green Lake County
6 Year - (2020-2025)
Highway Improvement Plan**

2021				
Reconstruction:		Project Limits	Location	IMPROVEMENT ESTIMATE
CTH D	2.25 Miles	City of Princeton–White River Rd(CHID) 15498	Town of St. Marie	\$725,000.00 -\$101,082.00
				<u>\$623,918.00</u>
CTH D	0.75 Miles	STH 23 – N. City of Princeton (STP 60/40)	City of Princeton	\$150,516.00
CTH Q	5 Miles	CTH S - CTH AW (CHIPD) 15862	Town of Mackford	\$1,025,500.00 -\$256,357.00
				<u>\$769,143.00</u>
TOTAL	<u>8</u>			\$1,543,577.00
 Surface				
CTH D	1.2 Miles	White River Road - Wollitz	Town of St. Marie	\$264,600.00
TOTAL	<u>1.2</u>			<u>\$264,600.00</u>
 Overlay				
TOTAL	0			\$0.00
 Chip Seal:				
CTH K	6 Miles	CTH N - STH 73		\$96,408.00
CTH V	5 Miles	CTH A - Fond du Lac County Line		\$80,340.00
CTH F	5 Miles	Oak Dr - Fond du Lac County Line		\$80,340.00
TOTAL	16			<u>\$257,088.00</u>
Total				<u><u>\$2,065,265.00</u></u>

**Green Lake County
6 Year - (2020-2025)
Highway Improvement Plan**

2022

Reconstruction:			Project Limits	Location	IMPROVEMENT ESTIMATE
CTH F	4.2		N Hunter - County Line (STP???) 80/20	Town of Seneca	\$3,600,000.00
	<u>4.2 Miles</u>				-\$2,880,000.00
					<u>\$720,000.00</u>
Surface					
CTH E	7.12 Miles		CTH F - CTH Z	Town of Seneca	\$1,648,458.00
	<u>7.12</u>				
Overlay					
TOTAL	0				\$0.00
Chip Seal:					
CTH H	1.7 Miles		Puchyan Road - Town Line		\$28,135.00
CTH B	4 Miles		STH 73 - CTH H		\$66,200.00
CTH M	3.5 Miles		County Line - CTH X		\$57,925.00
CTH DD	2 Miles		CTH D - Marquette County		\$33,100.00
CTH Y	1 Miles		STH 73 - Black Creek		\$16,550.00
CTH Q	2.5 Miles		STH 44 - CTH S		\$41,375.00
TOTAL	14.7				<u>\$243,285.30</u>
				Total	<u><u>\$2,611,743.30</u></u>

**Green Lake County
6 Year - (2020-2025)
Highway Improvement Plan**

2023

Reconstruction:			Project Limits	Location	IMPROVEMENT ESTIMATE
	TOTAL	0			\$0.00
Surface					
	CTH J	9.48 Miles	STH 49 - City of Princeton	Town of St. Marie	\$2,085,600.00
		9.48			
Overlay					
	TOTAL	0			\$0.00
Chip Seal:					
	CTH AW	3.5 Miles	STH 73 - County Line		\$59,664.50
	CTH O	1.5 Miles	Lovers Lane - Bridge Street		\$25,570.50
	CTH CC	3.75 Miles	CTH J - CTH J		\$63,926.25
	CTH S	2.17 Miles	CTH A - CTH Q		\$36,991.99
	CTH M	3.5 Miles	CTH X - County Line		\$59,664.50
	TOTAL	14.42			\$245,817.74
				Total	\$2,331,417.74

**Green Lake County
6 Year - (2020-2025)
Highway Improvement Plan**

2024

Reconstruction:		Project Limits	Location	IMPROVEMENT ESTIMATE
CTH Y	1.3 Miles	Black Creek - STH 73	Town of St. Marie	\$443,083.33
CTH A	1 Miles	CTH V - CTH AA	Town of Berlin	\$340,833.33
CTH JJ	1.2 Miles	CTH A - County Line	Town of Green Lake	\$409,000.00
TOTAL	3.5 Miles			\$1,192,916.66
Surface				
CTN N	2.34 Miles	CTH K - CTH B	Town of Green Lake	\$514,800.00
CTH T	2.11 Miles	Princeton - Bend Road	Town of Princeton	\$464,200.00
CTH TT	1.5 Miles	STH 23 - CTH T	Town of Princeton	\$330,000.00
CTH O	1.75 Miles	CTH K - CTH B	Town of Green Lake	\$385,000.00
	4.45			\$1,694,000.00
Overlay				
TOTAL	0			\$0.00
Chip Seal:				
CTH J	9.48 Miles	Princeton - STH 49		\$166,449.84
CTH H	2 Miles	Puchyan Road - Indian Mound Road		\$35,116.00
TOTAL	11.48			\$201,565.84
Total				\$3,088,482.50

**Green Lake County
6 Year - (2020-2025)
Highway Improvement Plan**

2025

Reconstruction:			Project Limits	Location	IMPROVEMENT ESTIMATE
	TOTAL	0 Miles			\$0.00
Surface					
	CTH D	6.4 Miles	CTH F - White River Bridge	Town of St. Marie	\$1,478,400.00
	CTH D	5.17 Miles	STH 23/73 - STH 73	Town of Princeton	\$1,139,985.00
	CTH A	4 Miles	CTH I - CTH AW	Town of Mackford	\$924,000.00
		<u>15.57</u>			<u>\$3,542,385.00</u>
Overlay					
	TOTAL	0			\$0.00
Chip Seal:					
	CTH D	2.88 Miles	City of Princeton - Wollitz	Town of Marquette	\$52,084.80
	CTH D	5.17 Miles	STH 23/73 - STH 73	Town of Green Lake/Marquette	\$93,499.45
	TOTAL	8.05			<u>\$145,583.80</u>
				Total	<u><u>\$3,687,968.80</u></u>