



**Addendum No. 1**  
**May 1, 2024**

**Wilke Pole Building**  
**Washington State University**  
**Davenport, WA**

Project No. 1931-2023  
Washington State University  
Facilities Services, Capital

**Addendum No. 1  
05/01/2024**

**Wilke Pole Building  
Washington State University  
Davenport, WA**

**Bid Date: 05/09/2024**

1. This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated April 11, 2024, and any prior addenda, as noted below.
2. Please acknowledge receipt of this addendum on the Form of Proposal.

This Addendum consists of thirteen total pages including the following Attachments:

|                                               |
|-----------------------------------------------|
| Pre-Bid Meeting 04/25/2024: Meeting Minutes   |
| Pre-Bid Meeting 04/25/2024: List of Attendees |
| WSU Wilke. 17074 Reference Drawings 1-4       |
|                                               |
|                                               |

**Changes to prior Addenda:**

None

**Changes to Bidding Requirements:**

None

**Changes to Specifications:**

SP 1-1. SECTION 03 30 00 – Cast-In-Place Concrete

- Item 1. 1.5 A.1. – Concrete Strength – Interior Concrete  
Replace “Interior Concrete: 3000 psi minimum.”

Make Read *“Interior Concrete: 4000 psi minimum.”*

SP 1-2. SECTION 13 34 19 – Pole Building

- Item 1. 1.05 B - Warranty

A. Clarification – Bidders are reminded of the following warranty requirements that are applicable and included in the Project Manual: “Special Weathertightness Warranty for Metal Roof

Panels: Manufacturer's standard form in which manufacturer agrees to repair or replace metal roof panel assemblies that leak or otherwise fail to remain weathertight within specified warranty period.

1. Warranty Period: 20 years from date of Substantial Completion.”

**Approved Substitution Requests:**

None

**Changes to Drawings:**

DWG 1-1. Sheet A0.00 – Site Plan, Legend, Sheet Index

- Item 1. Make Index of Drawings Read:
- General
    - A0.00 Cover Sheet/Index
    - A0.01 Abbreviations and Symbols
    - A1.01 Code Analysis
  - Demolition
    - AD2.01 Floor Plan – Demolition
  - Architectural
    - A2.01 Floor Plan
    - A3.01 Exterior Elevations
    - A4.01 Building Sections
  - Reference Drawings
    - Wilke 17074 1 of 4
    - Wilke 17074 2 of 4
    - Wilke 17074 3 of 4
    - Wilke 17074 4 of 4

- Items 2. Reference Drawings Included:
- The Original Construction Plans titled 50' x 100'x 20' Post Frame Building for WSU Wilke Farm are attached for reference. The Plan Set consisting of four sheets from Wambeke Engineering are dated July 16, 2017.

DWG 1-2. Sheet A2.01 – Floor Plan

- Item 1. General Notes:
- Add the following:
- 3. Contractor to provide 40 cubic yards (CY) of crushed surfacing top course material meeting the requirements of WSDOT Standard Specification 9-03.9(3). Material shall be placed inside the building addition over the existing subgrade material to match

the elevation of the floor in the existing structure. Material shall also be placed around the perimeter of the addition a distance of 4-feet to transition from the floor elevation down to the existing ground. Material shall be graded and compacted with a minimum compaction equivalent to a 26-inch walk behind double drum vibrator roller creating a smooth level surface. Excess material shall be stockpiled at a location onsite as directed by the Owner.

Item 2.           Detail 1 – Nyloplast 12' Inspection Port

1.     Vapor Barrier is not required.
2.     Crushed Surface Top Course may be utilized in lieu of Crushed Surfacing Base Course.
3.     The width of the Crushed Surfacing shall match the width of the concrete.
4.     Delete Note associated with "Traffic Loads..." and replace with "Install No. 4 Rebar at 12-inches, On Center, Each Way".
5.     Delete Note "The backfill materials shall be Crushed Surfacing Top Course or other Granular Material."

Item 3.           Detail 2 – Conc. Floor Assembly

1.     Delete all references to "SEE STRUCTURAL
2.     Crushed Surfacing Top Course may be utilized in place of Base Course under the slab.
3.     Contractor shall install No. 4 Rebar at 16-inches, On Center, Each Way, in the Concrete Slab.
4.     Add the following Note: Subgrade material shall be compacted to 92% of a modified proctor (ASTM D1557) with crushed surfacing being compacted to 95% of a modified proctor (ASTM D1557)

DWG 1-3.     Sheet A4.01- Detail 1 Building Section

- Item 1.           Exhaust Vent shall be extended vertically on the interior of the existing building. Vent shall penetrate through the translucent wall panel and be terminated with a steel black powder coated wall vent. Vent shall be constructed to 23-gauge steel and have screening covering the opening. (Broan 843BL or equal). Penetrations through the roof are not allowed. Provide supports as needed for the vertical piping and the wall penetration.

END OF ADDENDUM No. 1



## Pre-Bid Meeting

### WSU Project:

|               |                 |                   |                                     |
|---------------|-----------------|-------------------|-------------------------------------|
| Facility:     | Wilke Pole Barn | Project No:       | 1931-2023                           |
| Meeting Date: | April 25, 2024  | Physical Address: | 39440 St Highway 2<br>Davenport, WA |
| Recorded by:  | Eric Smith      |                   |                                     |

1. Introductions:
  - a. WSU Project Manager: Eric Smith      eric.smith2@wsu.edu
  - b. WSU Construction Manager: Eric Smith      eric.smith2@wsu.edu
  - c. WSU Occupant/Customer:  
Aaron Esser, College of Agricultural, Human and Natural Resource Sciences (CAHNRS)
  - d. Design Team: Architects West
  - e. Attendance at the pre-bid meeting is suggested.
  - f. The Owner's meeting minutes will be routed to project plan holders as part of the first addendum.
  - g. Send all questions regarding this project to the WSU Project Manager:
    - i. **All questions must be received no later than May 2<sup>nd</sup>.**
    - ii. All requests for substitutions must be received seven (7) days prior to the bid opening.
  - h. Addenda will be forwarded to all plan holders. Addenda will be issued no later than seven (7) days prior to the bid opening. May 2<sup>nd</sup>
  - i. This is an active agricultural facility. There are students, faculty and visitors who either will not be aware of construction or will be distracted. Contractors must routinely work around the pedestrian population on the facility as well as control noise and other construction related activities to minimize the effect on the facility. WSU is committed to a completely accessible facility. This means that when construction activities interfere with accessible pathways, that the General Contractor is responsible for putting in place temporary facilities (ramps, pathways, etc.,) to assure that all pathways are available.
2. Project Description:  
Scope of work: The Wilke Pole Barn project includes the development of a 16-foot by 100-ft (16,000 square feet) addition to the existing pole barn. Work also includes the installation of several man doors, a roll up door and concrete flat work



## Pre-Bid Meeting

a. Alternates:

- Alternate 1 - Widen the pole barn addition from 16-feet to 20-feet.
- Alternate 2 - Expand the existing concrete floor inside the main structure (Approximately 75-feet by 50-feet).
- Alternate 3 - Provide a 20-foot by 66-foot exterior concrete slab in the east end of the existing structure.

b. Unit Prices: Not applicable.

c. Allowances: Not applicable.

d. Owner-Furnished materials: Not applicable.

e. Expected work by Owner: Not applicable.

f. Location: Davenport, WA

g. Access & Haul Routes: As needed.

h. Occupied Area: Existing shop is active and in use. Facility utilization by CAHNRS will need to be maintained during construction.

i. Existing Hazards: Agricultural equipment.

j. Schedule Constraints: None noted.

k. Parking: Not applicable.

3. Estimated Base Bid, not including sales tax, is approximately: \$80,000 - \$140,000

4. Anticipated Notice to Proceed date: Early June.

5. Estimated project duration after Notice to Proceed: Substantial Completion must be completed within 90 days from Notice to Proceed.

6. Bidders should review the complete version of the bid instructions in the Contract Documents and in any forthcoming addenda. Especially note the following:

a. Bids shall be made upon the form of proposal in the Contract Documents.

b. Only all information requested on the bid form shall be filled out completely and entirely to include:

- i. Base Bid amount
- ii. Alternate amount(s) as required – Three Alternatives
- iii. Unit Price amount(s) as required – Not Applicable
- iv. Acknowledgement of each addendum received

c. *The bid shall include a bid security bond.*



## Pre-Bid Meeting

- d. Bid proposal format can be found in Section 00 42 13 Form of the Proposal. Bids can be emailed to [Contracts@wsu.edu](mailto:Contracts@wsu.edu) or a hardcopy may be delivered to McCluskey Services Building, 2425 East Grimes Way, Pullman WA 99164.
  - e. The bidder is responsible for getting the bid prior to the bid date and time in the Contract Documents. **The bid form must be received prior to 2:00 pm on May 9, 2024.**
  - f. Bids shall be opened and read aloud **via Zoom at 2:30pm on May 9, 2024**
  - g. Attendance in person at the Bid Open is not allowed.
  - h. Bidder Responsibility Mandatory Criteria: It is the intent of the Owner to award a contract to the low responsible bidder. Prior to awarding a contract, the apparent responsive low bidder must submit documentation demonstrating compliance as per Section 00 21 13, Part 1.17 – Low Responsible Bidder. Be prepared to submit the required documentation within 48 hours of receipt of request.
7. Summary of Construction Administration Requirements:
- a. For complete project administrative requirements refer to Division 1, including the Agreement between Owner and Contractor and any Addenda.
  - b. Prior to starting work; the contractor will be required to submit a schedule of values and a construction progress schedule for review and approval.
  - c. Regular progress meetings will be conducted during the course of the project. Meetings are anticipated to occur bi-weekly.
  - d. Material information and/or shop drawings shall be submitted to the Owner for approval. The construction progress schedule shall include time for the submittal review and distribution process.
  - e. O&M Manuals and Record drawings shall be submitted prior to Substantial Completion and the final application for payment and shall be identified as activities on the construction progress schedule.
8. A job-site visit was made during the course of the meeting.
9. Discussion/Remarks/Concerns:

The following items were discussed during the Pre Bid Tour and will be formally addressed in an Addendum:

- As a reminder, in accordance with Specification Section 01 41 00 1.03 G – Contractor is responsible for having a licensed engineer complete structural plans for the building addition in accordance with building permit requirements.



## **Pre-Bid Meeting**

- The bathroom ventilation duct that is currently shown in the construction plans on Section 1 on Sheet A4.01 to be extended vertically up through the new roof, will be modified such that the duct piping extends up vertically in the interior of the building and then penetrates through the translucent wall panel.
- Crushed Surfacing Top Course (CSTC) will be required to supplement the existing gravel that is within the proposed footprint for the building addition. CSTC will also be extended outwards 4-feet around the perimeter of the addition to transition from the finish grade down to the existing grade. A quantity will be specified and the Contractor will be required to spread, level and compact the material.
- Rebar and rebar spacing will be specified for placement in the concrete slabs.
- The requirement for a Weathertight Warranty on the metal panels will be addressed in the Addendum.

End of Meeting



## Pre-Bid Meeting Attendance Record

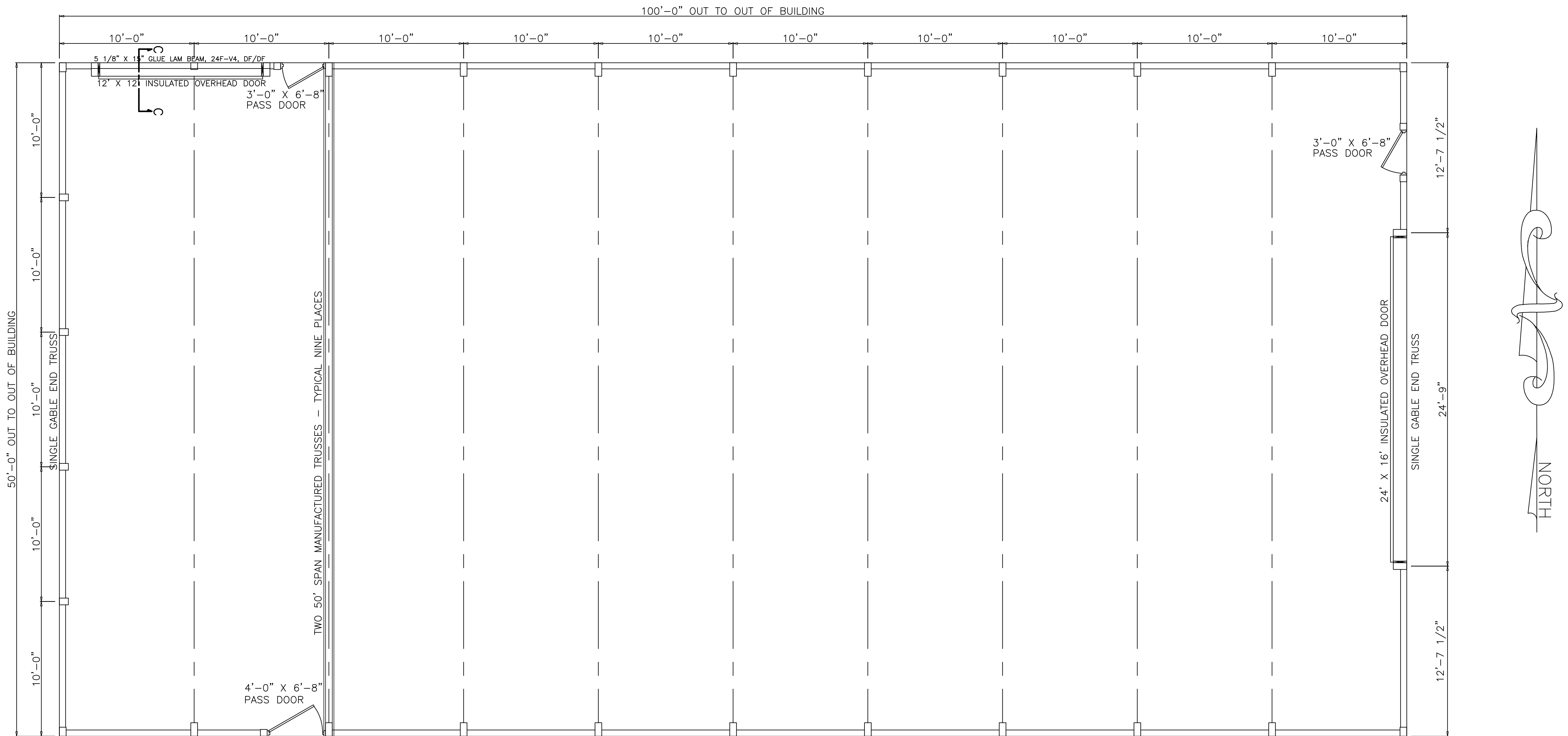
### WSU Project:

Facility: Wilke Pole Barn  
Meeting Date: April 25, 2024

Project No: 1931-2023  
Physical Address: 39440 St Highway 2  
Davenport, WA

***Please make sure your name is legible.***

| Name           | Company                   | Phone           | Email                           |
|----------------|---------------------------|-----------------|---------------------------------|
| Leif Rosenlund | Halme Builders            | 509-725<br>1200 | dan@halmebuilders.com           |
| Greg Unruh     | Princeton Building<br>Co. | 208-596<br>9643 | greg@princeton<br>buildings.net |
|                |                           |                 |                                 |
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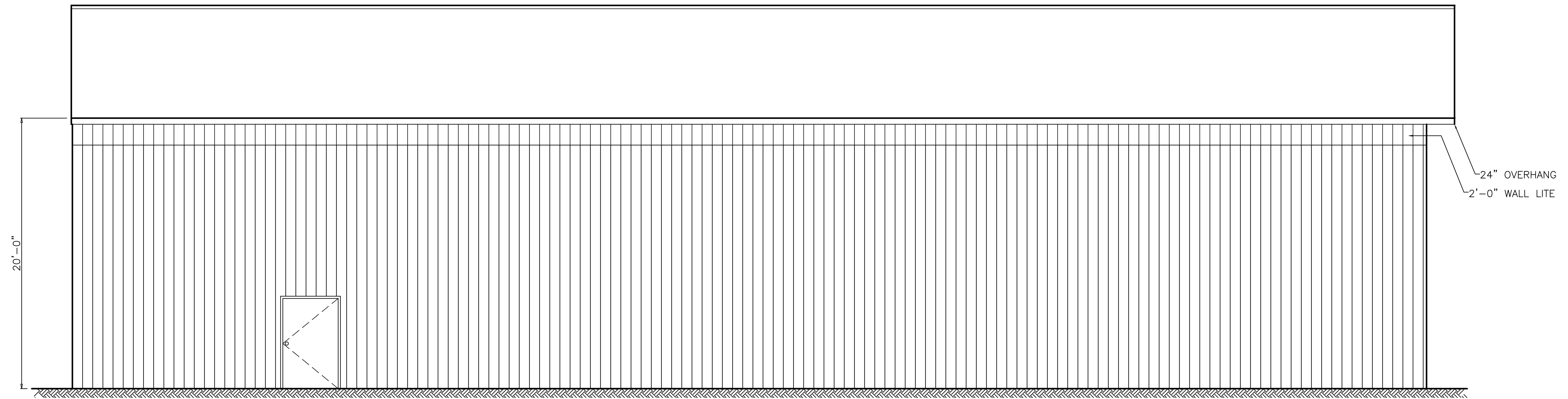


PLAN VIEW

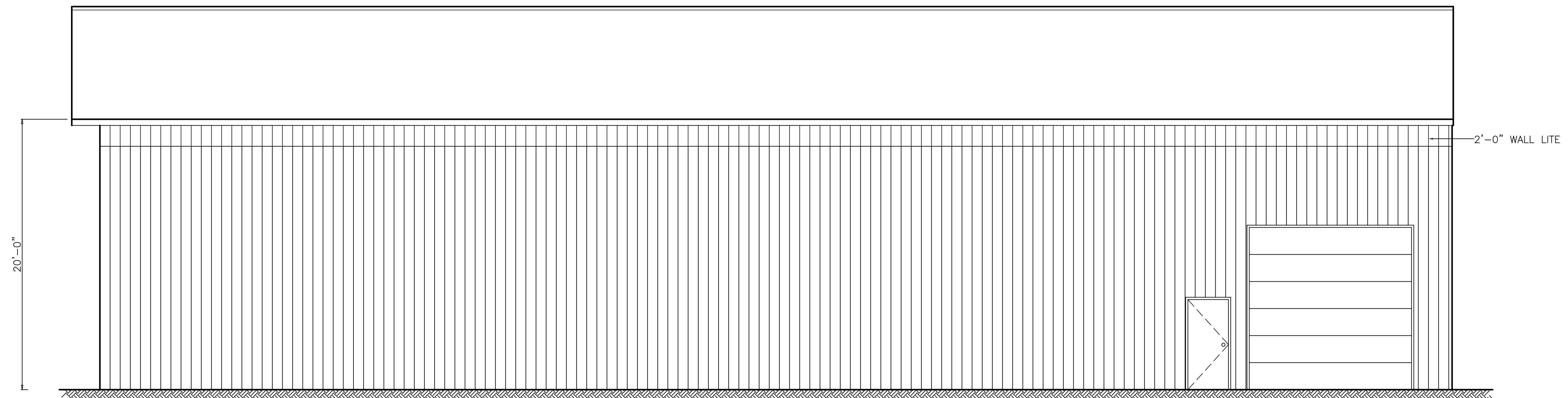
- 6" X 8" ROUGH CUT HEM-FIR #2 TREATED CORNER POSTS EMBEDDED IN 24"Ø X 3'-8" DEEP CONCRETE FOOTING
- 6" X 12" ROUGH CUT HEM-FIR #2 TREATED SIDEWALL POSTS EMBEDDED IN 34"Ø X 4'-2" DEEP CONCRETE FOOTING
- 6" X 8" ROUGH CUT HEM-FIR #2 TREATED ENDWALL POSTS EMBEDDED IN 24"Ø X 4'-6" DEEP CONCRETE FOOTING
- 6" X 12" ROUGH CUT HEM-FIR #2 TREATED DOOR ENDWALL POSTS EMBEDDED IN 30"Ø X 4'-6" DEEP CONCRETE FOOTING

NOTCH CORNER POSTS  
1 1/2" FOR TRUSS SEAT

|     |     |      |                       |                                                                                                                                       |         |                 |                 |
|-----|-----|------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----------------|
|     |     |      |                       | WAMBEKE ENGINEERING                                                                                                                   |         |                 |                 |
|     |     |      |                       | Daniel Wambeke, P. E.<br>2913 E. 61st Court<br>Spokane, WA 99223<br>Telephone: 509-443-6186 Fax: 509-448-6582 e-mail dwambeke@msn.com |         |                 |                 |
|     |     |      |                       | 50' X 100' X 20' POST FRAME BUILDING FOR<br>WSU WILKE FARM, 39442 STATE ROUTE 2 EAST<br>DAVENPORT, WASHINGTON                         |         |                 |                 |
|     |     |      |                       | BISHOP CONTRACTING LLC<br>8645 146TH LANE S.W.<br>OLYMPIA, WASHINGTON 98512                                                           |         |                 |                 |
|     |     |      |                       | BY                                                                                                                                    | DATE    | DRAWING NO.:    | REV.            |
|     |     |      |                       | WAMBEKE                                                                                                                               | 7-16-17 | WSU WILKE.17074 | A               |
| A   | DLW | 8-08 | CHANGED FOOTINGS      | DRAWN                                                                                                                                 | WAMBEKE | 7-16-17         | WSU WILKE.17074 |
| REV | BY  | DATE | DESCRIPTION OF CHANGE | CHECKED                                                                                                                               |         | PROJECT NO.     | 17074           |
|     |     |      |                       | SCALE: 1/4" = 1'-0" SHEET: 1 OF 4                                                                                                     |         |                 |                 |

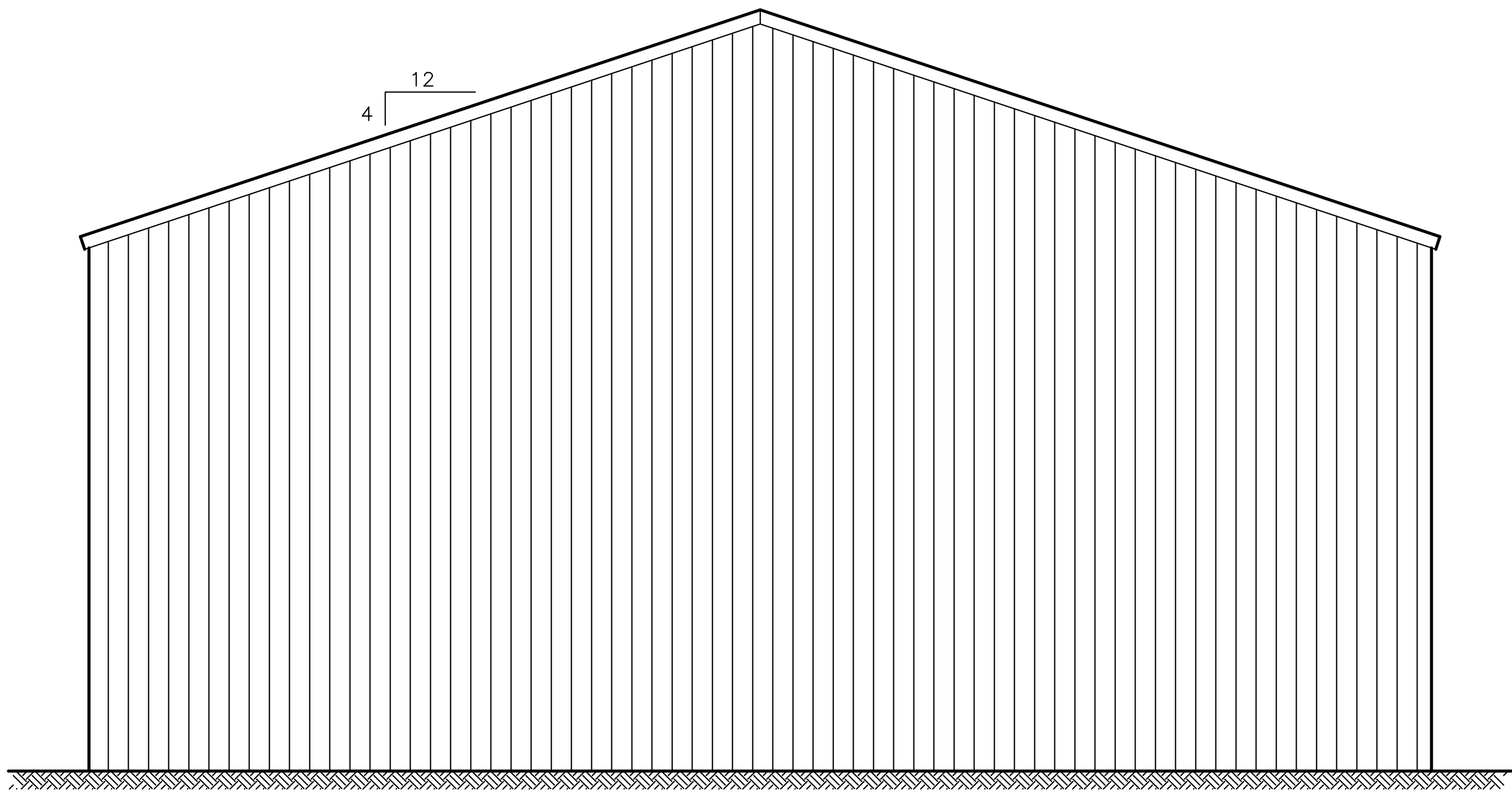


SOUTH ENDWALL ELEVATION

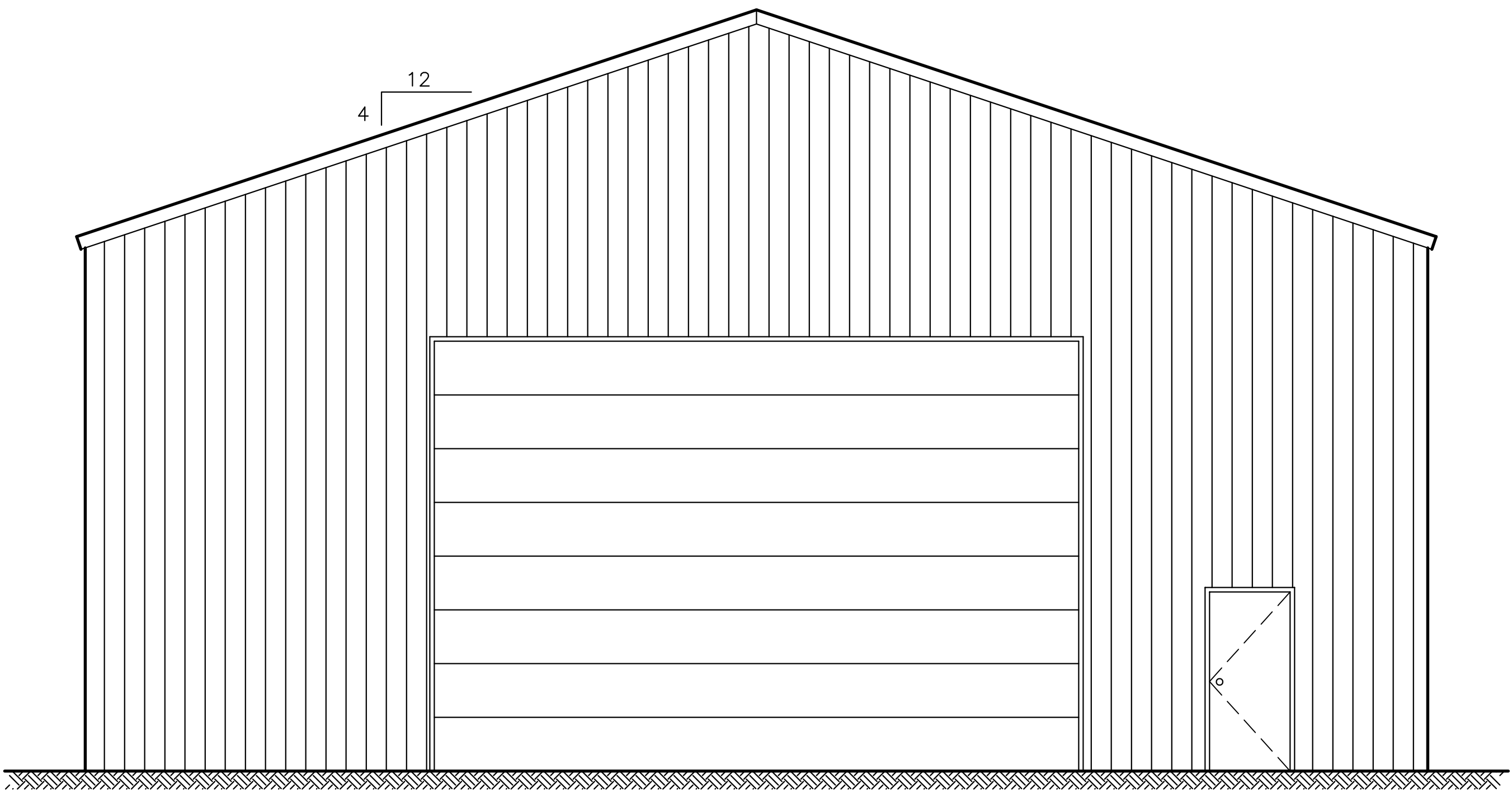


NORTH ENDWALL ELEVATION

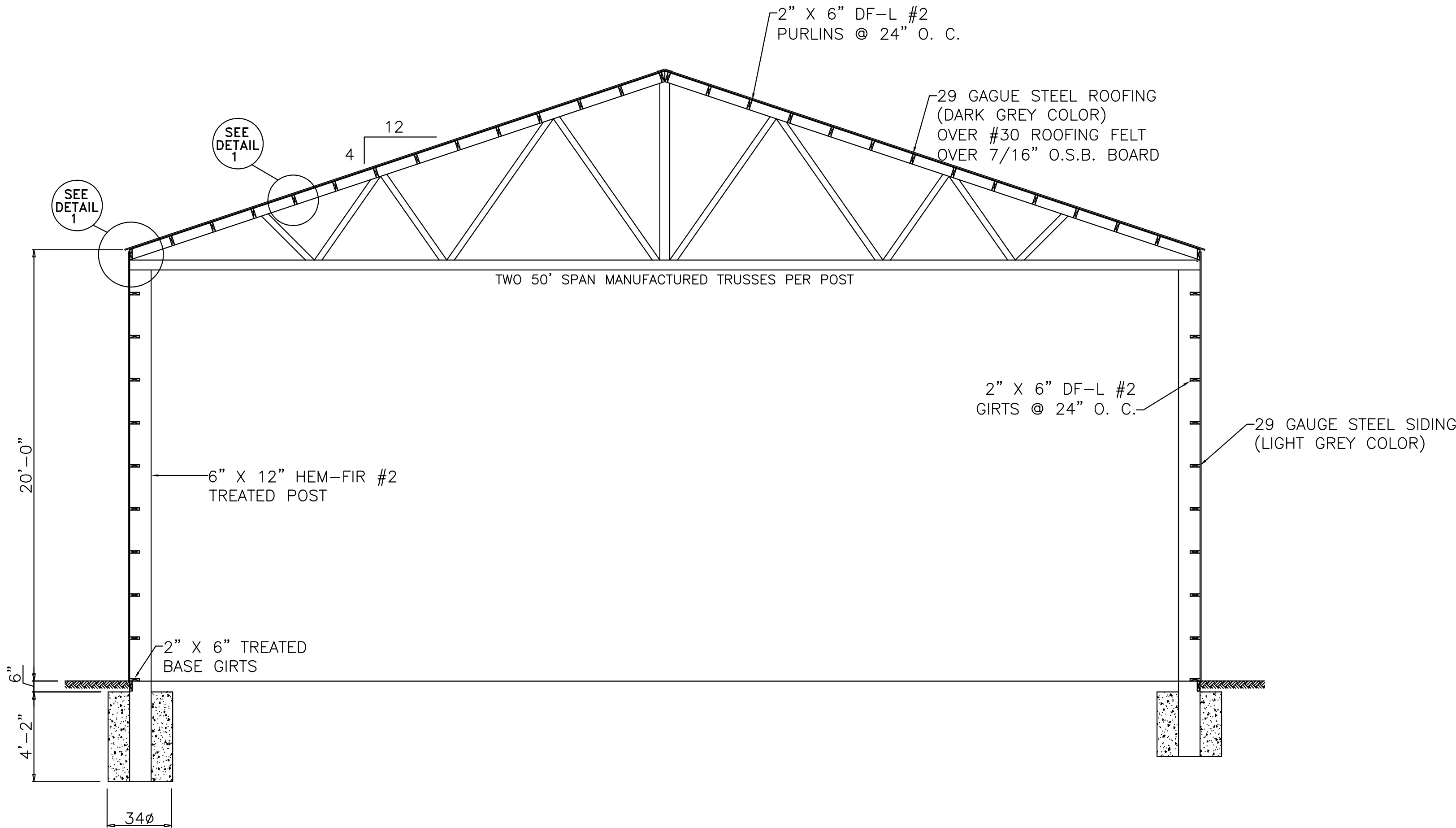
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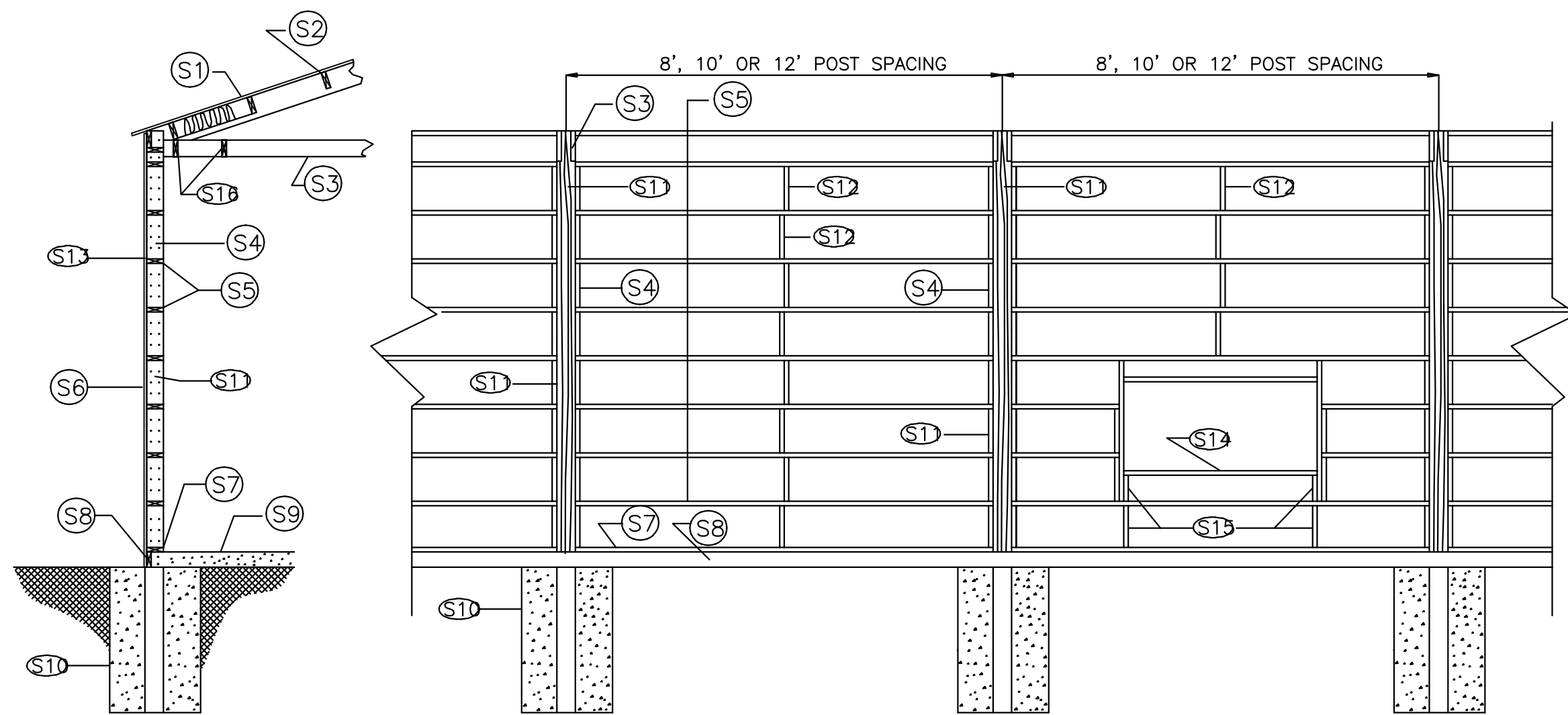
WEST ENDWALL ELEVATION



EAST ENDWALL ELEVATION



TYPICAL CROSS SECTION AT TRUSSES



WALL SECTION

WALL FRAMING PLAN

SPECIFICATION NOTES FOR COMMERCIAL WALL FRAMING

- (S1) METAL ROOFING OVER METAL BUILDING INSULATION

(S2) 2" X 6" OR 2" X 8" PURLINS @ 24" O.C.

(S3) MANUFACTURED TRUSSES

(S4) 2" X 6" OR 2" X 8" BLOCKING BETWEEN GIRTS. NAIL BLOCKING TO POSTS W/ (6) 16d NAILS.

(S5) 2" X 6" OR 2" X 8" GIRTS @ 24" O.C. TOENAIL TO POSTS AND BLOCKING W/ (3) 16d NAILS.

(S6) METAL SIDING.

(S7) PRESSURE TREATED 2" X 6" OR 2" X 8" BASE GIRT

(S8) PRESSURE TREATED 2" X 4" BASE GIRT.
- (S9) 4" THICK CONCRETE SLAB.

(S10) CONCRETE POST FOOTING

(S11) PRESSURE TREATED POST

(S12) 2" X 6" OR 2" X 8" STAGGERED BLOCKING @ MIDSPAN OF GIRTS. END NAIL TO GIRTS W/ (2) 16d NAILS.

(S13) 2 X 6 OR 2 X 8 WINDOW SILL

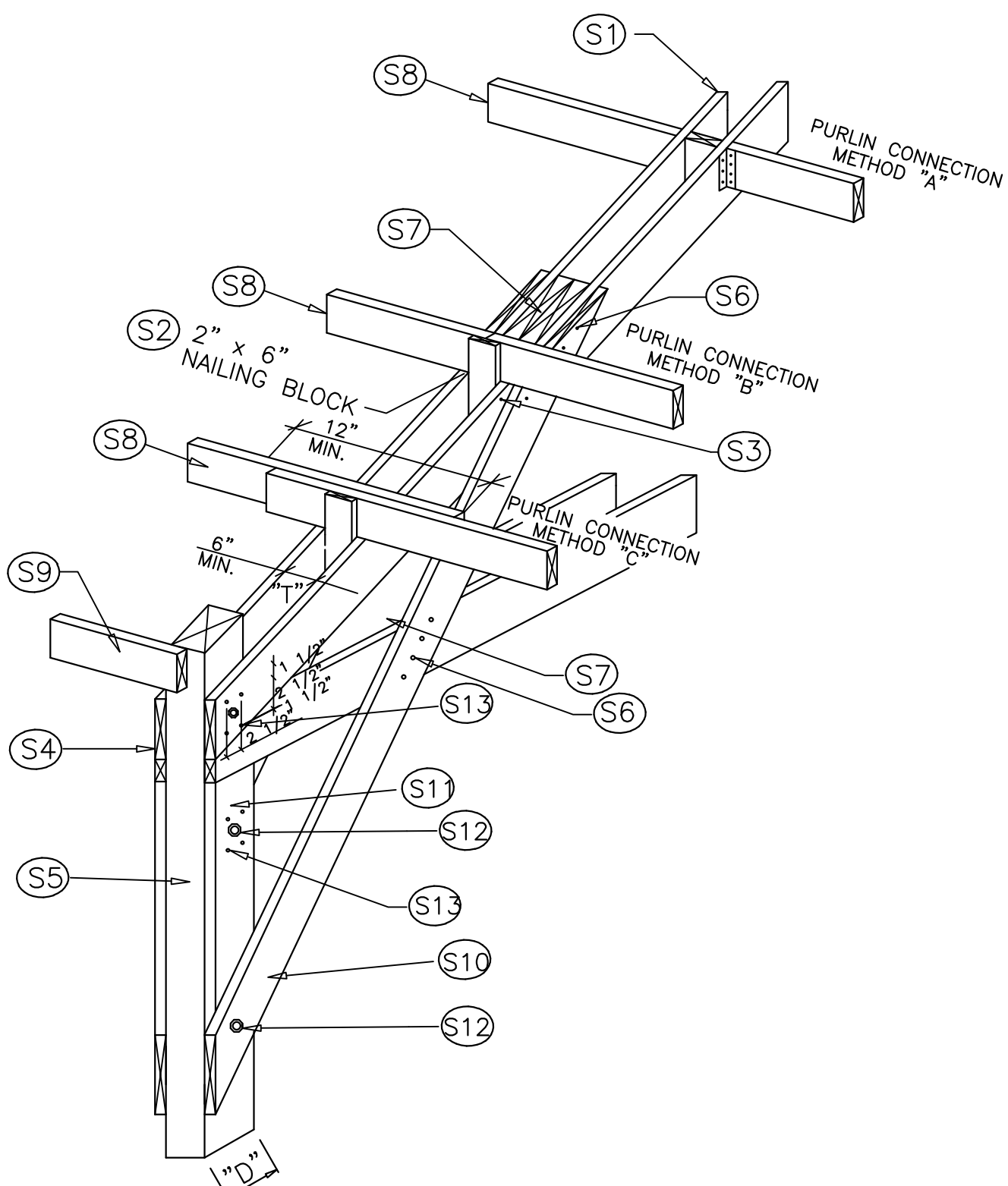
(S14) 2 X 6 OR 2 X 8 BLOCKING BELOW EACH SIDE OF WINDOW

(S15) 2 X 6 CEILING JOISTS - INSTALL WITH JOIST HANGERS - OPTIONAL

NOTES:

1. BUILDING SPECIFICATIONS ON BASIC POST FRAME BUILDING PLANS APPLY TO THIS ADDENDUM.
2. 2" X 8" GIRTS MAY BE SUBSTITUTED FOR 2" X 6" GIRTS TO OBTAIN THE DESIRED WALL THICKNESS, BUT ARE NOT REQUIRED FOR STRUCTURAL INTEGRITY.

|     |  |             |       |                                                                                                                                       |  |               |  |
|-----|--|-------------|-------|---------------------------------------------------------------------------------------------------------------------------------------|--|---------------|--|
|     |  |             |       | WAMBEKE ENGINEERING                                                                                                                   |  |               |  |
|     |  |             |       | Daniel Wambeke, P. E.<br>2913 E. 61st Court<br>Spokane, WA 99223<br>Telephone: 509-443-6186 Fax: 509-448-6582 e-mail dwambeke@msn.com |  |               |  |
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|     |  |             |       | BISHOP CONTRACTING LLC<br>8645 146TH LANE S.W.<br>OLYMPIA, WASHINGTON 98512                                                           |  |               |  |
|     |  | BY          | DATE  | DRAWING NO.:                                                                                                                          |  | REV.          |  |
| A   |  | DLW         | 8-08  | CHANGED FOOTINGS                                                                                                                      |  | A             |  |
| REV |  | BY          | DATE  | DESCRIPTION OF CHANGE                                                                                                                 |  |               |  |
|     |  | CHECKED     |       |                                                                                                                                       |  |               |  |
|     |  | PROJECT NO. | 17074 | SCALE: 1/4" = 1'-0"                                                                                                                   |  | SHEET: 3 OF 4 |  |

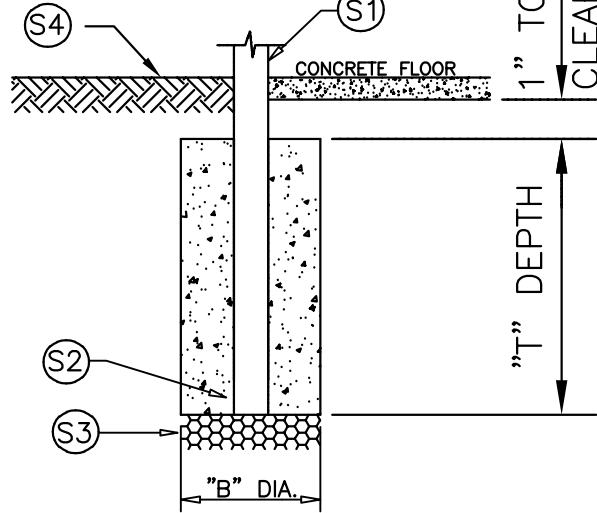


DETAIL 1 - TRUSS COLUMN  
CONNECTION, PURLIN SUPPORT

N.T.S.

NOTES FOR FOOTING DETAIL

- S1 TREATED POSTS AS SIZED PER SCHEDULE  
S2 VIBRATE OR ROD CONCRETE TO OBTAIN FULL BEARING  
S3 UNDISTURBED SOIL  
S4 GRADE



FOOTING DETAIL

N.T.S.

NOTES FOR CONNECTION DETAIL

- S1 MANUFACTURED TRUSS TOP CHORDS  
TRUSS DESIGN BY TRUSS MANUFACTURER  
S2 PURLIN SUPPORT STRUT 2" X 6" X FULL  
DEPTH OF TOP CHORD PLUS PURLIN.  
NAIL PURLINS W/(3) 16d NAILS  
S3 NAIL STRUT TO TOP CHORD W/(3) 16d  
NAILS EACH SIDE.  
S4 MANUFACTURED TRUSS - NAIL TO EACH  
SIDE OF POST WITH 4 - 16d NAILS  
ON TOP NAILING BLOCK  
S5 WOOD POSTS - SEE PLAN VIEW FOR POST SIZES  
S6 4 - 10d NAILS  
S7 SOLID BLOCKING AT CONNECTION POINTS.  
S8 TYP. PURLINS 2" X 6" DF-L #2 @ 24" O. C.  
S9 2" X 6" EAVE GIRT  
S10 KNEE BRACES ARE NOT REQUIRED  
S11 2" X 6" X 24" BLOCK  
S12 1 - 3/4" Ø MACHINE BOLT THRU TRUSS T. CHORD  
4 - 3/4" Ø M. BOLT @ BOLTING BLOCK - 50'  
S13 4 - 16d NAILS

PURLIN CONNECTION METHODS:

- A). PURLINS MAY BE HUNG  
OFF THE TRUSS TOP CHORD  
FACES W/ STD.  
SIMPSON JOIST HANGERS  
OR EQUAL.  
B). PURLINS MAY BE  
BUTTED AND NAILED  
W/(2) 16d NAILS  
INTO EACH PURLIN.  
C). PURLINS MAY BE  
LAPPED AND NAILED  
W/(3) 16dNAILS.

ON CONNECTION METHODS  
"B" AND "C", TOENAIL  
BACK SIDE OF PURLIN  
W/(1) 16d NAIL INTO  
EACH TOP CHORD MEMBER

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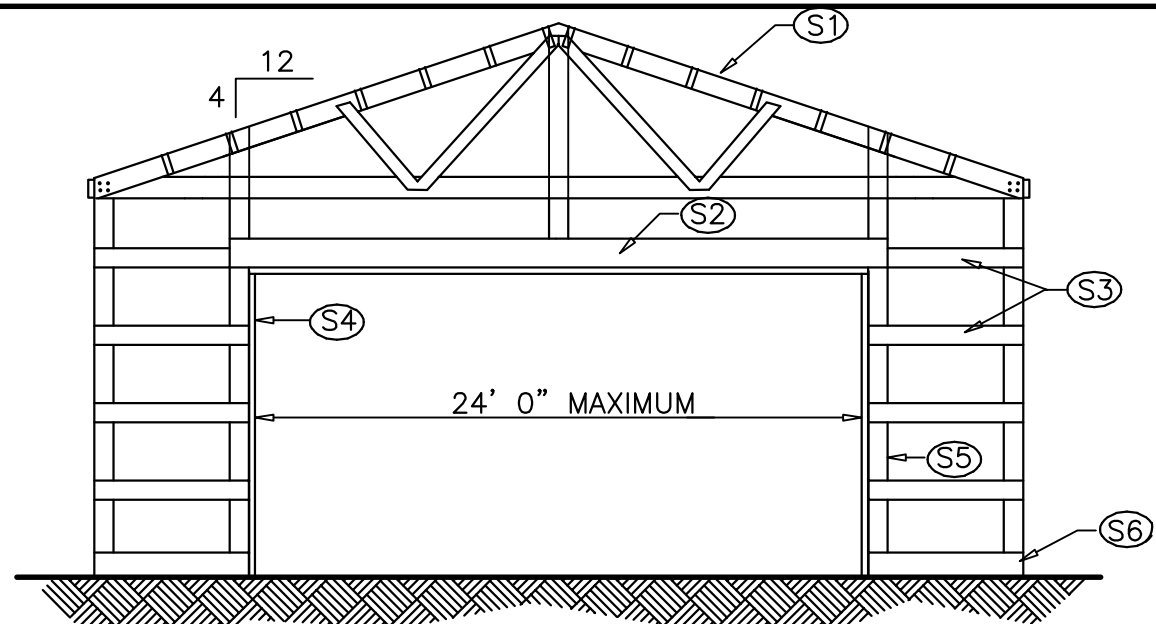
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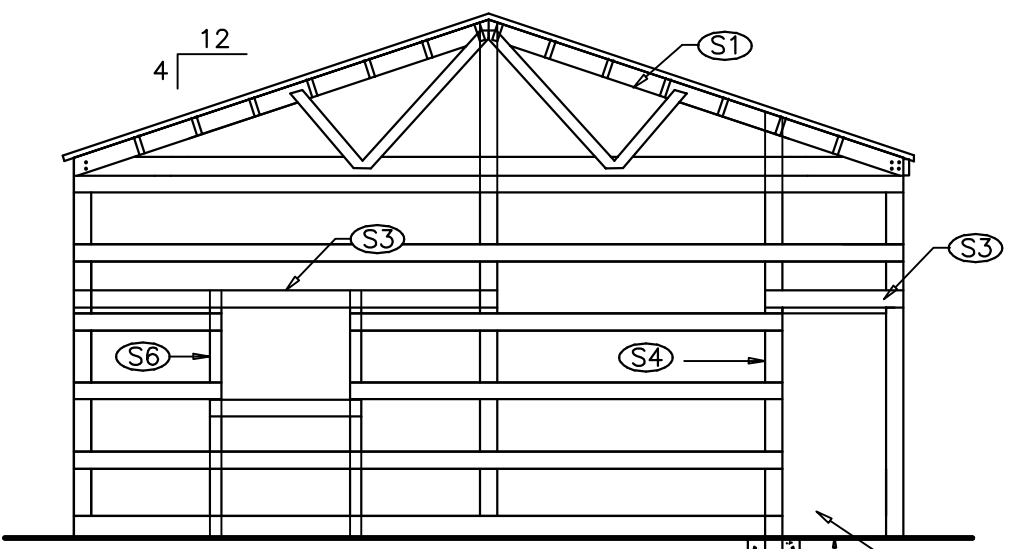
N.T.S.



SINGLE OVERHEAD DOOR OPTION  
FRONT ELEVATION

N.T.S.

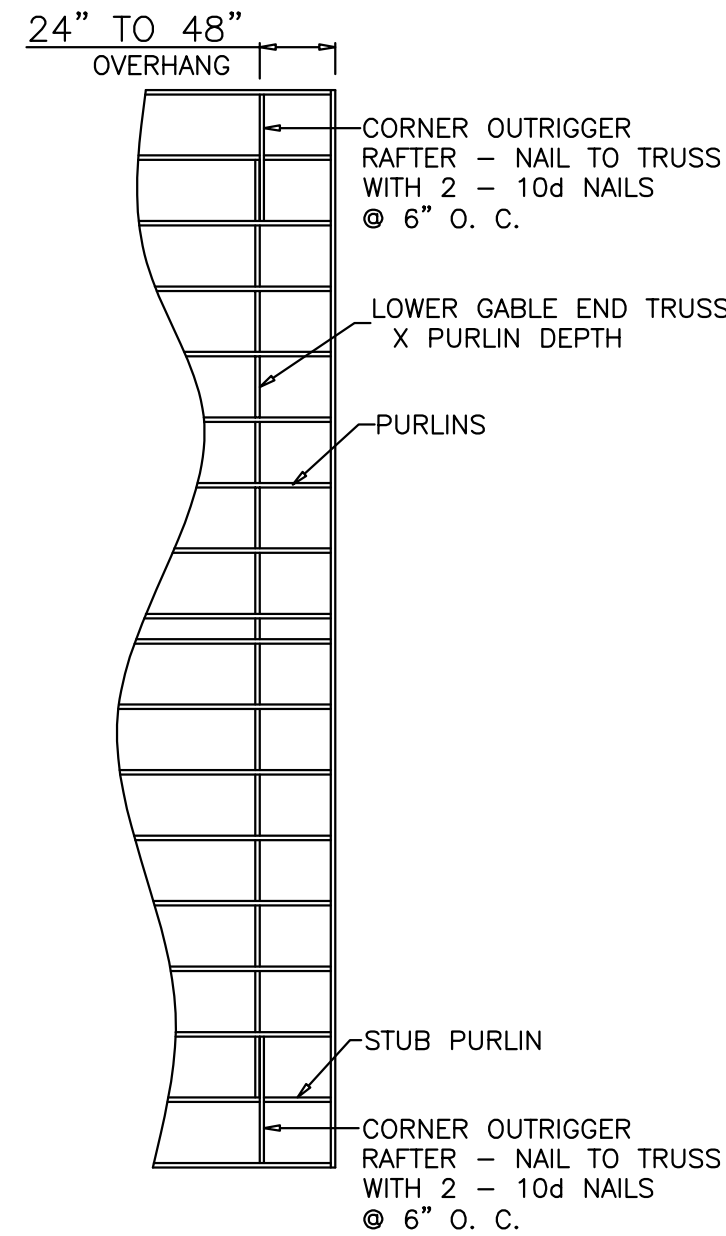
- NOTES FOR FRONT ELEVATION  
S1 GABLE END TRUSS DESIGN BY TRUSS MANUFACTURER  
SUPPORT PURLINS @ END TRUSS W/2" X 6"  
S2 TREATED 2" X 6" BOTTOM GIRT  
S3 DOUBLE 2" X 12" HEADER  
2" X 6" GIRTS @ 24" O.C., 10' BAYS, DF-L #2  
2" X 6" GIRTS @ 24" O.C., 12' BAYS, DF-L #2  
S4 2" X 8" FACIA BOARDS  
S5 TREATED WOOD POSTS, SIZED PER PLAN VIEW  
S6 TREATED 2" X 6" BOTTOM GIRT



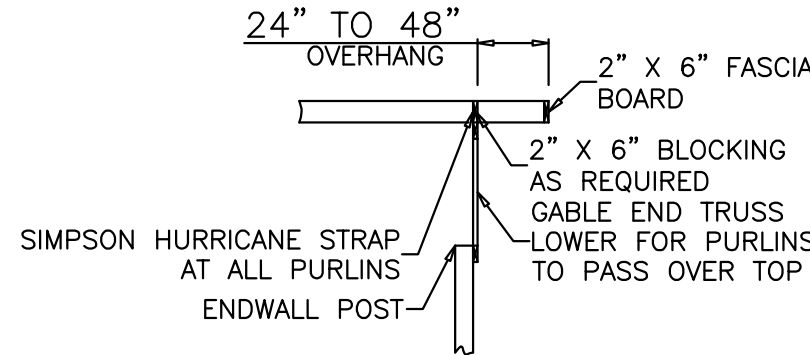
OPTIONAL FRONT ELEVATION

N.T.S.

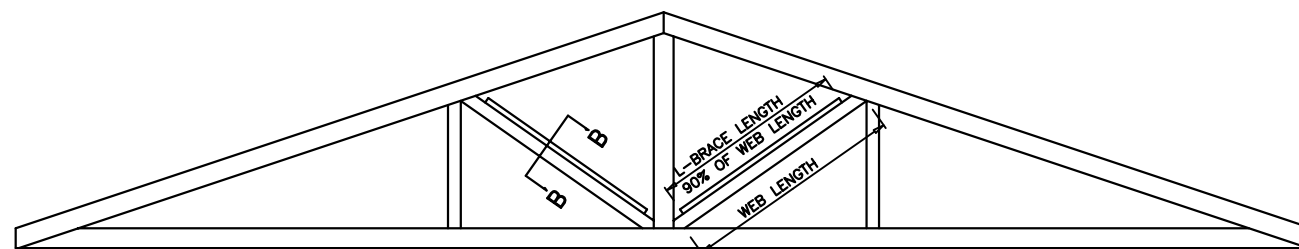
- NOTES FOR OPTIONAL FRONT ELEVATIONS  
S1 GABLE END TRUSS DESIGN BY TRUSS MANUFACTURER  
S2 2" X 10" HEADER UP TO 12' 0" DOORS  
DOUBLE 2" X 12" HEADER UP TO 24' 0" DOORS  
S3 2" X 6" HEADER  
S4 6" X 6" DOOR POST - 16' & 18'  
WALL HEIGHT W/ 2" X 8" FACER.  
S6 2" X 4" WINDOW JAMB



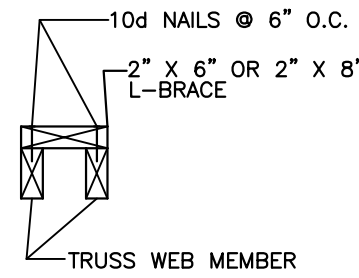
PLAN VIEW  
GABLE END OVERHANG



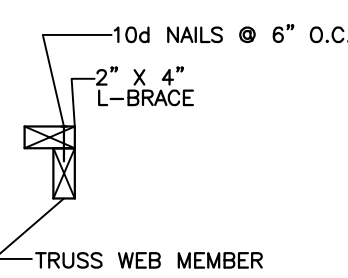
SECTION @ OVERHANG



ALTERNATE TRUSS WEB BRACING SYSTEM  
INTERIOR OR GABLE END TRUSSES



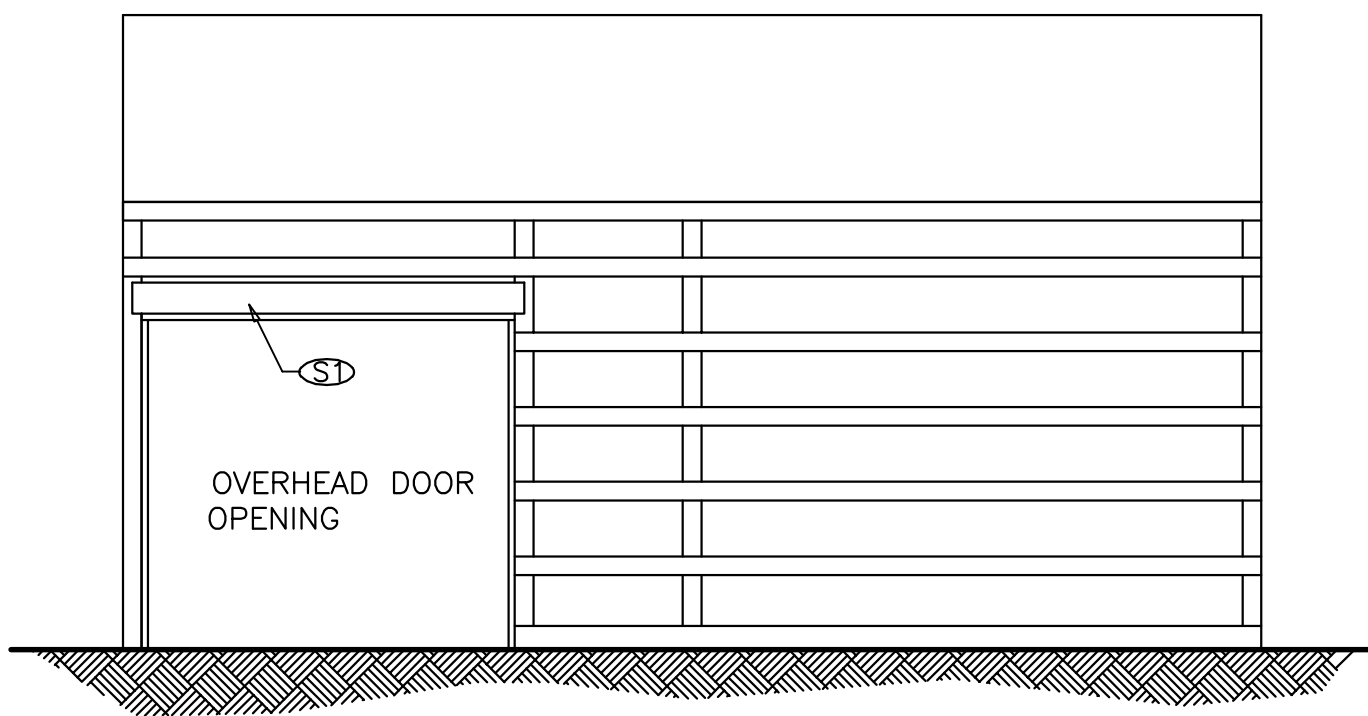
SECTION B-B  
AT INTERIOR TRUSSES



SECTION B-B  
AT GABLE END TRUSS

NOTE:

TRUSS DIAGRAMS WILL OFTEN REQUIRE WEB MEMBER BRACING, WHICH IS SHOWN ON TRUSS DRAWINGS AS . THE METHOD OF TRUSS WEB BRACING SHOWN ABOVE REPLACES 1" X 4" OR 2" X 4" WEB MEMBER BRACING FOLLOW THESE INSTRUCTIONS FOR ALL WEB MEMBER BRACING TO REPLACE "RAT-RUN" WEB

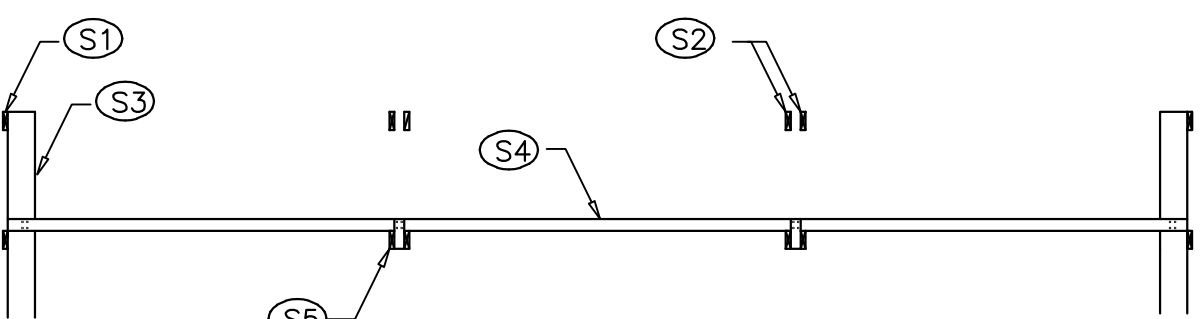


TYPICAL SIDE ELEVATION

N.T.S.

NOTES FOR SIDE ELEVATION

- S1 2" X 8" HEADER  
S2 2" X 10" HEADER FOR 10' & 12' SLIDING DOORS  
2" X 8" HEADER FOR 8' & SMALLER SLIDING DOORS

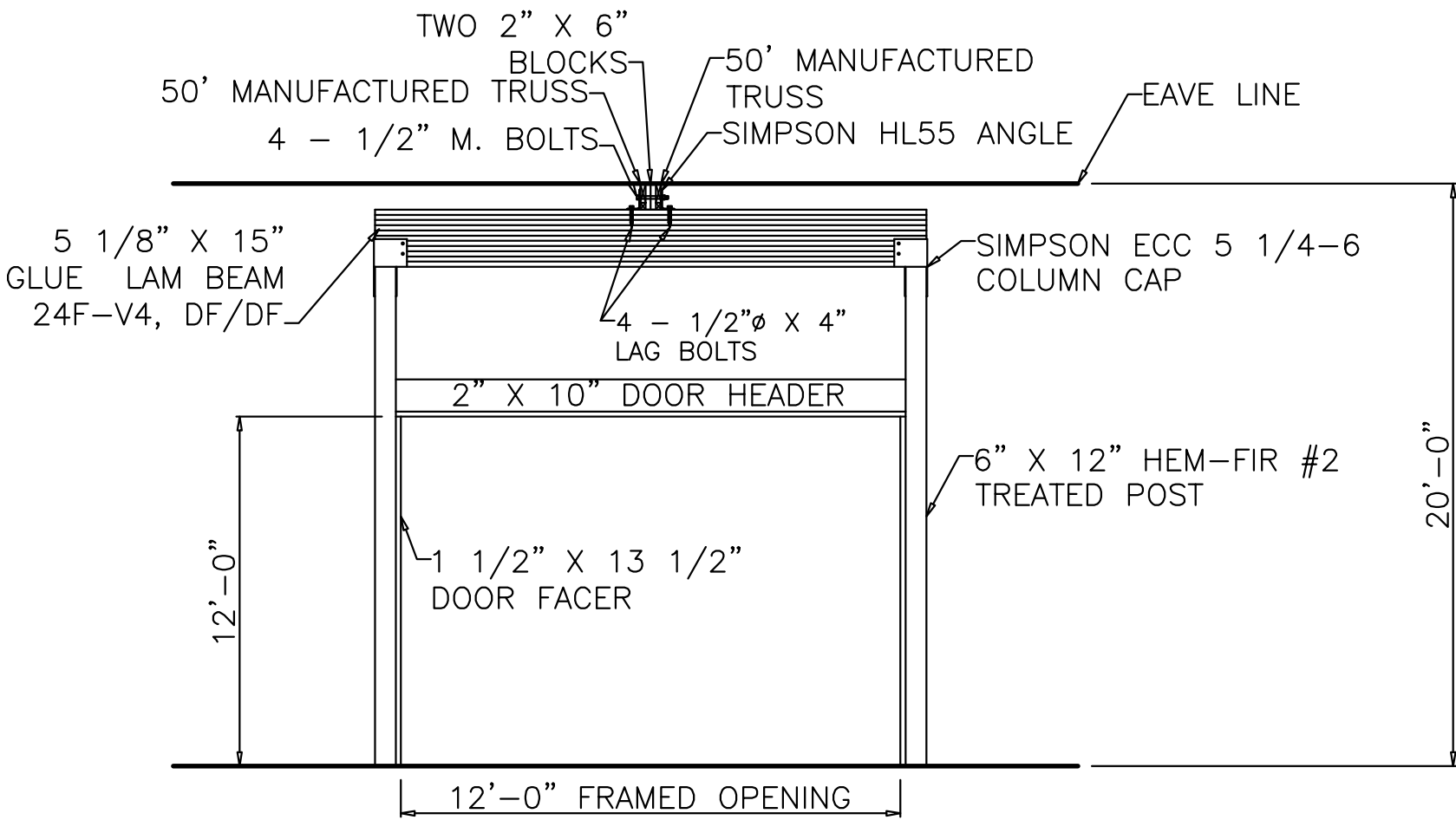


TYPICAL TRUSS BOTTOM CHORD BRACING

N.T.S.

NOTES FOR TRUSS BOTTOM CHORD BRACING

- S1 GABLE END TRUSS  
S2 DOUBLE INTERIOR TRUSSES  
S3 GABLE END POST  
S4 2" X 6" BOTTOM CHORD BRACING @ 10' 0" O.C.  
S5 2" X 3" BLOCK WITH 4 - 10d  
NAILS TO BOTTOM CHORD BRACE



SECTION C-C

|     |    |      |                       |                                                                                                               |         |                                         |               |
|-----|----|------|-----------------------|---------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------|---------------|
|     |    |      |                       | WAMBEKE ENGINEERING                                                                                           |         |                                         |               |
|     |    |      |                       | Daniel Wambeke, P. E.                                                                                         |         | 2913 E. 61st Court<br>Spokane, WA 99223 |               |
|     |    |      |                       | Telephone: 509-443-6186 Fax: 509-448-6582                                                                     |         | e-mail dwambeke@msn.com                 |               |
|     |    |      |                       | 50' X 100' X 20' POST FRAME BUILDING FOR<br>WSU WILKE FARM, 39442 STATE ROUTE 2 EAST<br>DAVENPORT, WASHINGTON |         |                                         |               |
|     |    |      |                       | BISHOP CONTRACTING LLC<br>8645 146TH LANE S.W.<br>OLYMPIA, WASHINGTON 98512                                   |         |                                         |               |
|     |    |      |                       | BY                                                                                                            | DATE    | DRAWING NO.:                            | REV.          |
|     |    |      |                       | WAMBEKE                                                                                                       | 7-16-17 | WSU WILKE.17074                         |               |
|     |    |      |                       | CHECKED                                                                                                       |         |                                         |               |
|     |    |      |                       | PROJECT NO.                                                                                                   | 17074   | SCALE: N.T.S.                           | SHEET: 4 OF 4 |
| REV | BY | DATE | DESCRIPTION OF CHANGE |                                                                                                               |         |                                         |               |