

## MORTON BUILDINGS GENERAL SPECIFICATIONS

LAMINATED COLUMNS - NO. 1 OR BETTER SOUTHERN YELLOW PINE NAIL LAMINATED 3 MEMBER S4S COLUMNS NAILED 8" O.C. STAGGERED ON EACH SIDE WITH 4" NAILS.

ANCHORED ON CONCRETE - COLUMNS ARE ATTACHED TO CONCRETE BY USE OF 1/4" H.R. STEEL COLUMN SOCKETS. EACH SOCKET IS FASTENED TO THE CONCRETE BY TWO 1/2" DIA. X 10" PLATED ANCHOR BOLTS AND COLUMN IS FASTENED TO SOCKET BY (4) 1/2"X6" M. BOLTS & (8)20d R.S. NAILS.

TREATED LUMBER -- PRESSURE PRESERVATIVE TREATED LUMBER OTHER THAN LAMINATED COLUMNS ARE NO. 1 OR BETTER SOUTHERN YELLOW PINE AND CENTER MATCHED OR NOTCHED AND GROOVED OR S4S. PRESSURE TREATMENT TO GROUND CONTACT RETENTION WITH PRESERVATIVE TREATMENT COMPLYING WITH USE CATEGORY UC4B (AWPA OR ICC-ES) AND IN COMPLIANCE WITH USEPA GUIDELINES AND STANDARDS.

FRAMING LUMBER - SIDING NAILERS ARE 2x4 S4S OR 2x6 SPF NO. 2 OR BETTER SPACED APPROXIMATELY 36" O.C. WITH ALL JOINTS STAGGERED AT ATTACHMENT TO COLUMNS. ROOF PURLINS ARE 2x4 S4S NO. 2 OR BETTER ON EDGE SPACED APPROXIMATELY 24" O.C. ALL OTHER FRAMING LUMBER IS NO. 2 OR BETTER.

ROOF TRUSSES - FACTORY ASSEMBLED WITH 18 OR 20 GAUGE GALVANIZED STEEL TRUSS PLATES AS REQUIRED AND KILN DRIED LUMBER AS SPECIFIED, IN-PLANT QUALITY CONTROL INSPECTION IS CONDUCTED UNDER THE AUSPICES OF THE TPI INSPECTION BUREAU. TRUSSES ARE DESIGNED IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS FOR THE STATED LOADING.

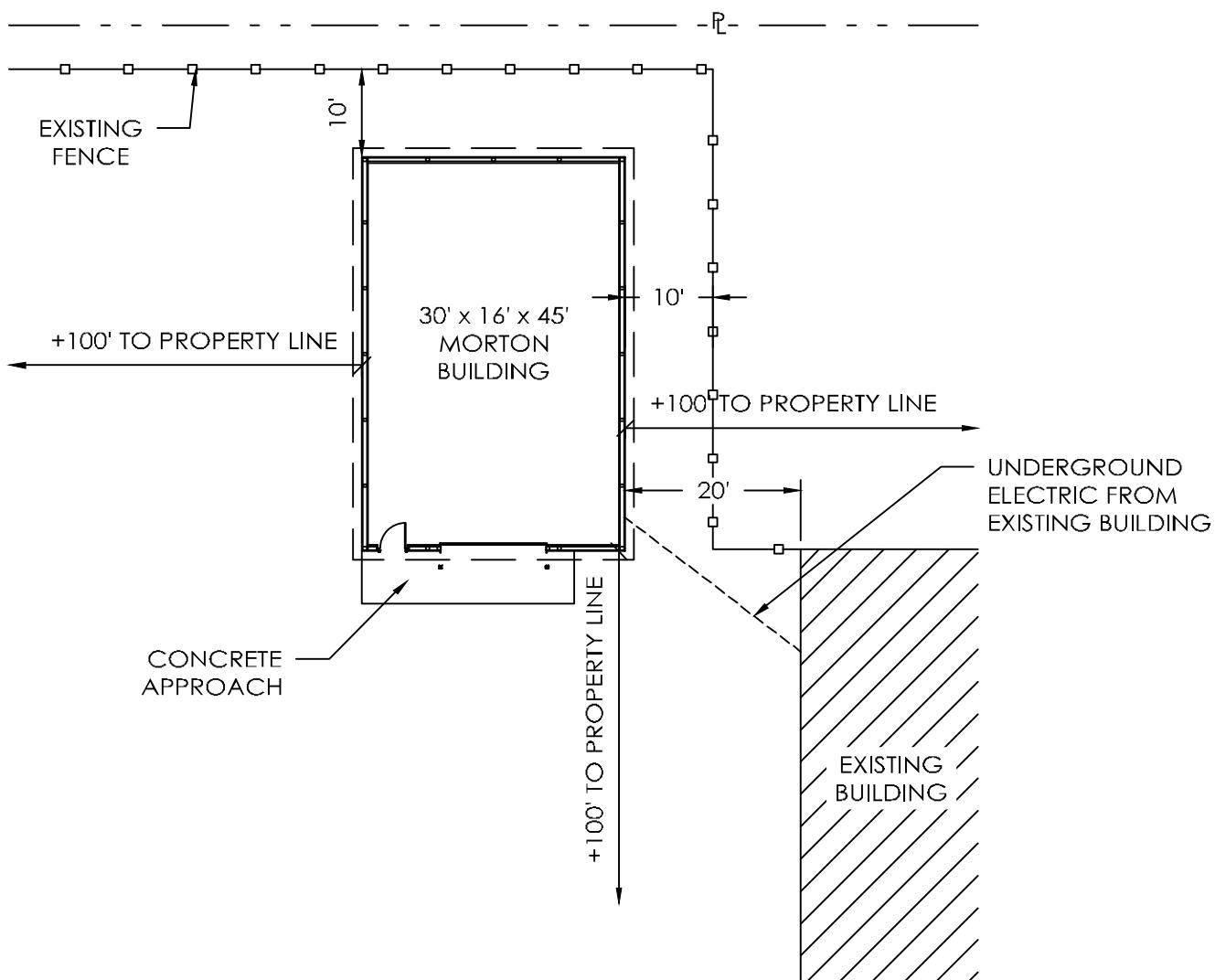
SIDING PANELS & ROOFING (FLUOROFLEX 1000™) - 0.019" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL WITH AN ADDITIONAL BAKED-ON 70% PVDF FINISH WITH A NOMINAL 1 MIL. PAINT THICKNESS ON EXTERIOR.

TRIM - DIE-FORMED TRIM OF 0.017" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL ON GABLES, RIDGES, CORNERS, BASE WINDOWS, AND DOORS WITH SAME FINISH AS ROOFING OR SIDING PANELS.

GUTTERS - 5" K-STYLE, .030 HIGH TENSILE ALUMINUM GUTTER, 70% PVDF FINISH TO MATCH TRIM, ON BOTH SIDES OF THE BUILDING.  
2x4WF1F1 02/12

## DESIGN AND EXPLANATORY NOTES

- 1.) ALL PLOT PLANS AND RELATED DETAILS SHALL BE PROVIDED BY OWNER UNLESS INCORPORATED AS PART OF THESE DRAWINGS.
- 2.) MORTON BUILDINGS GENERAL SPECIFICATIONS APPLY UNLESS INDICATED DIFFERENTLY ON SPECIFIC JOB DRAWINGS OR SUPPLEMENTAL INFORMATION.
- 3.) MINIMUM LIVE ROOF LOAD DESIGNS FOR CONSTRUCTION, MAINTENANCE, REPAIR, AND OTHER TEMPORARY LOADS PER SECTION 1607.11.2
  - a.) ROOF PURLINS AND OTHER SECONDARY STRUCTURAL MEMBERS = 20 PSF
  - b.) ROOF TRUSSES, HEADERS, COLUMNS AND OTHER PRIMARY STRUCTURAL MEMBER = 20 PSF
  - c.) FOOTINGS = 14 PSF (DESIGNED FOR ROOF SNOW LOAD AND OTHER NON-TEMPORARY LOADS W/ APPROVAL FROM BUILDING OFFICIAL).
- 4.) NO ONE MAY ALTER ANY ENGINEERING ITEM UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT.
- 5.) ARCHITECTURAL PLANS ARE NOT PROVIDED BY ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C. AND ARE THE OWNERS RESPONSIBILITY.
- 6.) ♦ THE PRECEDING SYMBOL IDENTIFIES ITEMS THROUGHOUT THE PLANS THAT ARE NOT PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS' SUBCONTRACTORS AND ARE THE OWNER'S RESPONSIBILITY.



BUILDING LOCATION PLAN

SCALE: 5' 20'  
2.5' 10' 40'  
N

BUILDING DESIGN CRITERIA		
USE GROUP	S-1	
CONSTRUCTION TYPE	VB	
MIN. LIVE ROOF LOAD DESIGN	SEE NOTE #3	
ROOF SNOW LOAD *	14 PSF	
WIND SPEED (V <sub>3s</sub> )	90 MPH (EXP. C)	
FLOOR LOAD	125 PSF	
BUILDING AREA	1350 SQ. FT.	
GROUND SNOW LOAD	20 PSF	

### \*ROOF SNOW LOAD CALCULATIONS

$P_s = 0.7 \times C_e \times I \times P_g \times C_t \times C_s$   
 $C_e = \text{SNOW EXPOSURE FACTOR} = 1.0$   
 $I = \text{IMPORTANCE FACTOR} = 1.0$   
 $P_g = \text{GROUND SNOW LOAD} = 20 \text{ PSF}$   
 $C_t = \text{THERMAL FACTOR} = 1.1$   
 $C_s = \text{ROOF SLOPE FACTOR} = 0.86$   
 $P_s = 0.7 \times 1.0 \times 1.0 \times 20 \times 1.1 \times 0.86 = 13.24 \text{ PSF}$

SHEET INDEX	
SHEET #	DESCRIPTION
G1 OF G1	SPECIFICATIONS, BUILDING LOCATION PLAN & SHEET INDEX
SF1 OF SF2	FOUNDATION PLAN, FOUNDATION SECTION A & RAMP SECTION B
SF2 OF SF2	CONTAINMENT PIT SECTION C & WALL/FLOOR JOINT DETAILS
S1 OF S6	COLUMN PLAN
S2 OF S6	TRUSS/BRACING PLAN, TRUSS DRAWING, & END CONNECTION DETAILS
S3 OF S6	ELEVATIONS
S4 OF S6	SIDEWALL SECTION A, ENDWALL SECTION B & TRUSS HEEL DETAIL
S5 OF S6	OHD HEADER SECTION C & SHEARWALL DETAILS
S6 OF S6	PURLIN DETAILS & PURLIN LAYOUT

CURRENT LUMBER SPECIFICATIONS (06-01-2013)		
SIZE	DESCRIPTION	BENDING VALUE F <sub>b</sub>
2x4	NO. 2 SPF	1313 PSI
2x4	NO. 1 SYP	1500 PSI
2x4	2100f MSR SPF	2100 PSI
2x6	NO. 2 SPF	1138 PSI
2x6	NO. 1 SYP	1350 PSI
2x6	2100f MSR SPF	2100 PSI
2x6	2400 MSR SYP	2400 PSI
2x8	NO. 1 SYP	1250 PSI
2x8	2400 MSR SYP	2400 PSI
2x10	NO. 1 SYP	1050 PSI
2x10	2400 MSR SYP	2400 PSI
2x12	NO. 1 SYP	1000 PSI
2x12	2250f MSR SYP	2250 PSI
1 1/2"X16"	LAMINATED VENEER LUMBER	2800 PSI
3 1/2"X15"	GLU-LAM	1650 PSI
5 1/4"X16 1/2"	GLU-LAM	2400 PSI
5 1/4"X19 1/2"	GLU-LAM	2400 PSI

OFFICE:  
WATSEKA, IL  
JOB NO.  
023-053718



309-263-7474

EON CLIMATE & RENEWABLES, N.A.

SHELDON, IL

MORTON, IL 61550-0399



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DATE:	9/29/2015
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DATE:	10/6/2015
REVISED DATE:	11/4/2015
REVISED DATE:	3/3/2016
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AS-BUILT PLANS

SCALE: AS NOTED  
SHEET NO.  
G1 OF G1



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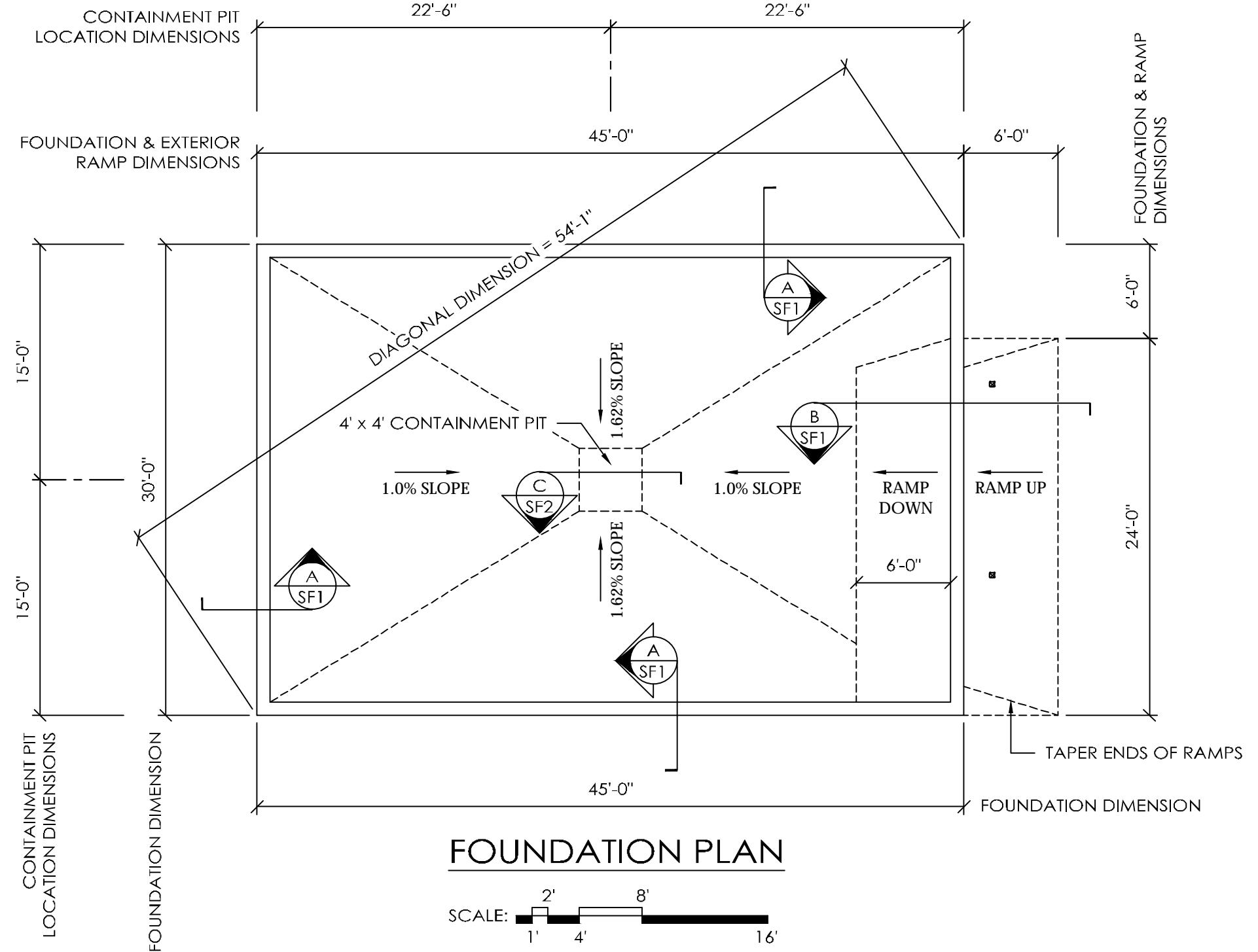
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**AS-BUILT PLANS****DESIGN AND EXPLANATORY NOTES**

1.) FOOTINGS ARE DESIGNED FOR A 2000 PSF SOIL BEARING CAPACITY. LOCAL CONDITIONS MAY REQUIRE MODIFICATIONS.

## 2.) CONCRETE FLOOR NOTES:

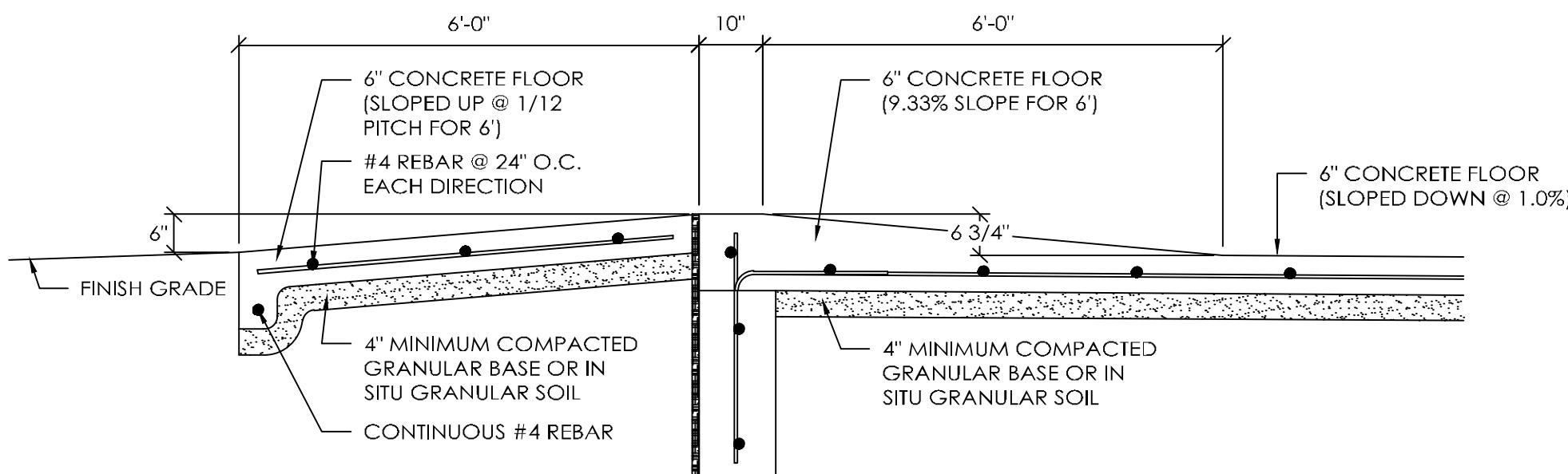
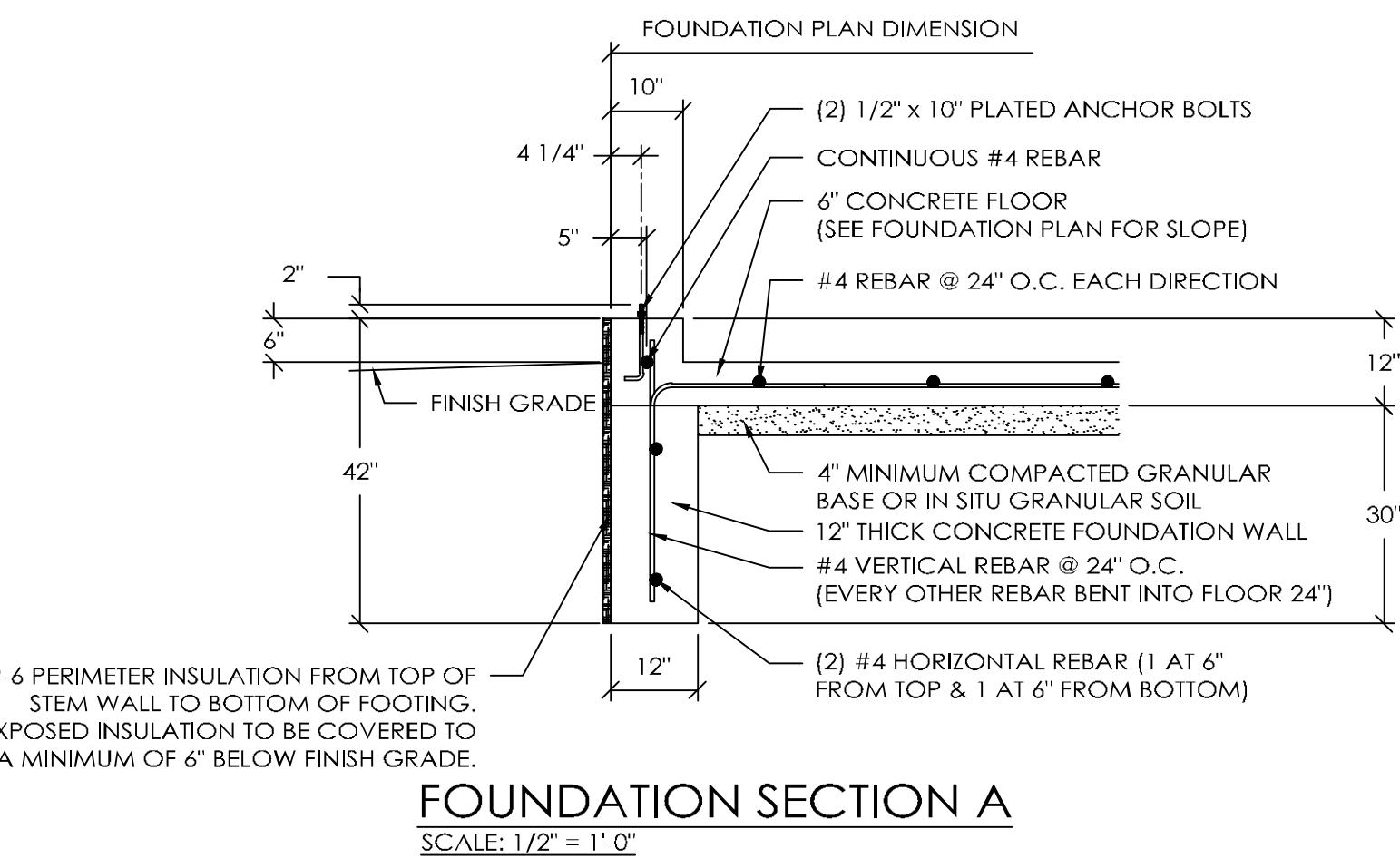
- a. 4000 PSI, 5 1/2 BAG MIX CONCRETE
- b. SLOPE GRADE AWAY FROM BUILDING @ 1" PER FOOT FOR A MINIMUM DISTANCE OF 10' PLUS OVERHANG WIDTH
- c. PLACE A MINIMUM 6 MIL POLYETHYLENE VAPOR RETARDER OVER A COMPACTED GRANULAR BASE AND DIRECTLY BELOW THE CONCRETE FLOOR
- d. CONTRACTION JOINTS UNIFORMLY SPACED 18' O.C. OR LESS

## 3.) CONCRETE FOUNDATION NOTES:

- a. CONCRETE & REINFORCING BAR SPECIFICATIONS:
  - 4000 PSI, 5 1/2 BAG MIX
  - GRADE 60, DEFORMED REINFORCING BARS
- b. VERTICAL REINFORCING:
  - HOOK VERTICAL REINFORCING 8" MINIMUM IN FOOTING
  - SPLICE LENGTH SHALL BE 12" MINIMUM
  - COVER SHALL BE 2 1/2" MINIMUM
- c. HORIZONTAL REINFORCING:
  - HORIZONTAL REINFORCING SHALL BE CONTINUOUS OR PROPERLY SPLICE AROUND ALL CORNERS
  - SPLICE LENGTH SHALL BE 12" MINIMUM
  - COVER SHALL BE 3" MINIMUM

## 4.) CONTROL JOINT NOTES:

- a. SAW-CUT CONTROL JOINTS IN SLAB-ON-GRADE TO A DEPTH OF 1 1/2" WITHIN 6 HOURS AFTER PLACING THE CONCRETE, OR AS SOON AS EQUIPMENT CAN BE SUPPORTED, BEFORE UNCONTROLLED CRACKING OCCURS.
- b. SAW-CUT JOINTS ARE TO BE CLEANED OF DEBRIS AND RESIDUE AFTER EACH SAWING AND PRIOR TO APPLYING ANY CONCRETE SEALANTS.
- c. CRACK CONTROL JOINTS IN CONCRETE TRANSFER PAD SHALL BE SEALED WITH SILKAFLEX 2C-SL JOINT MATERIAL, OR EQUAL.
- d. CONSTRUCTION JOINTS ARE AN ACCEPTABLE ALTERNATIVE TO CONTROL JOINTS.



SCALE: AS NOTED  
SHEET NO.  
SF1 OF SF2



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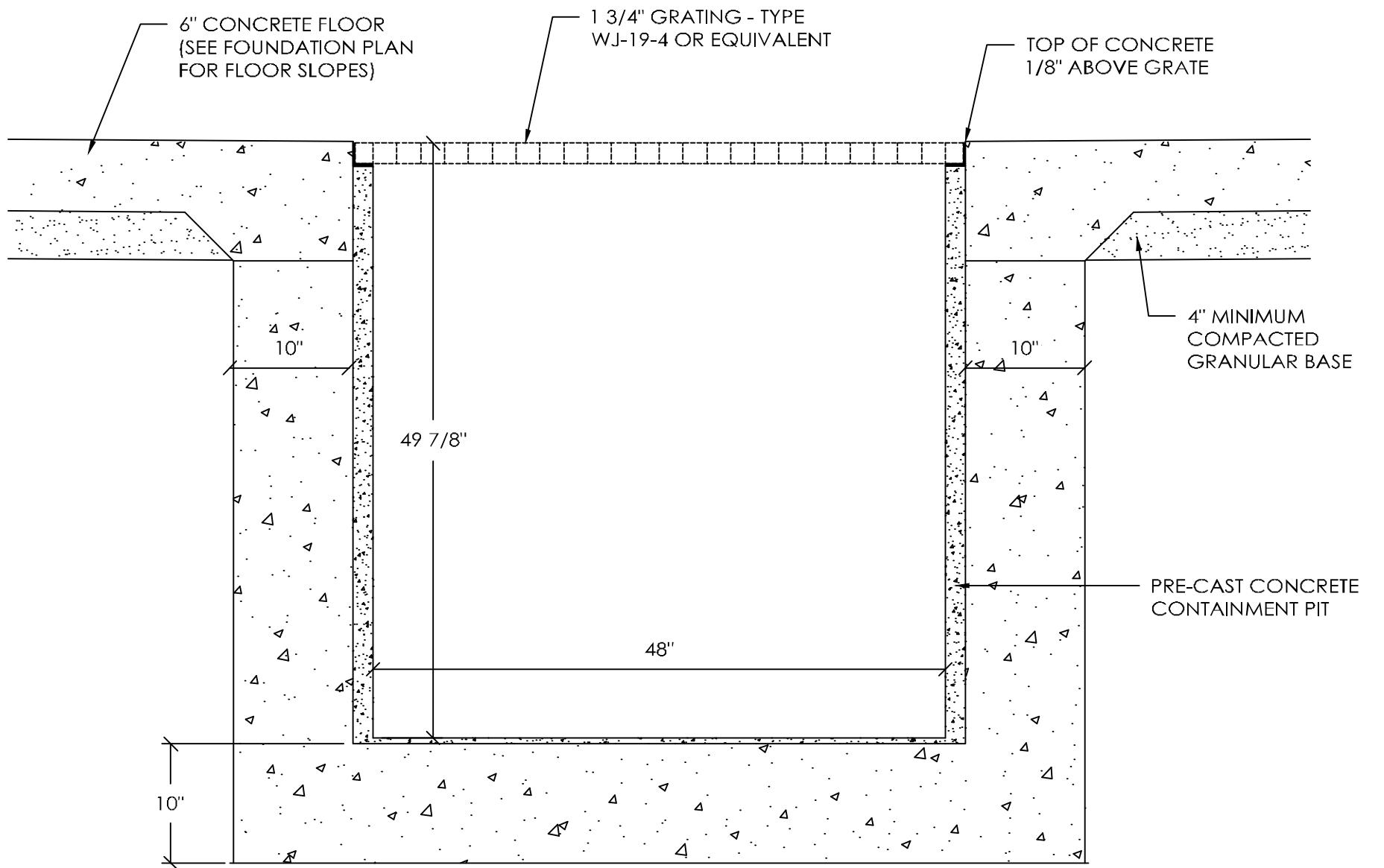
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AS-BUILT  
PLANS



CONTAINMENT PIT SECTION C

SCALE: 1" = 1'-0"

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SCALE: AS NOTED  
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SF2 OF SF2



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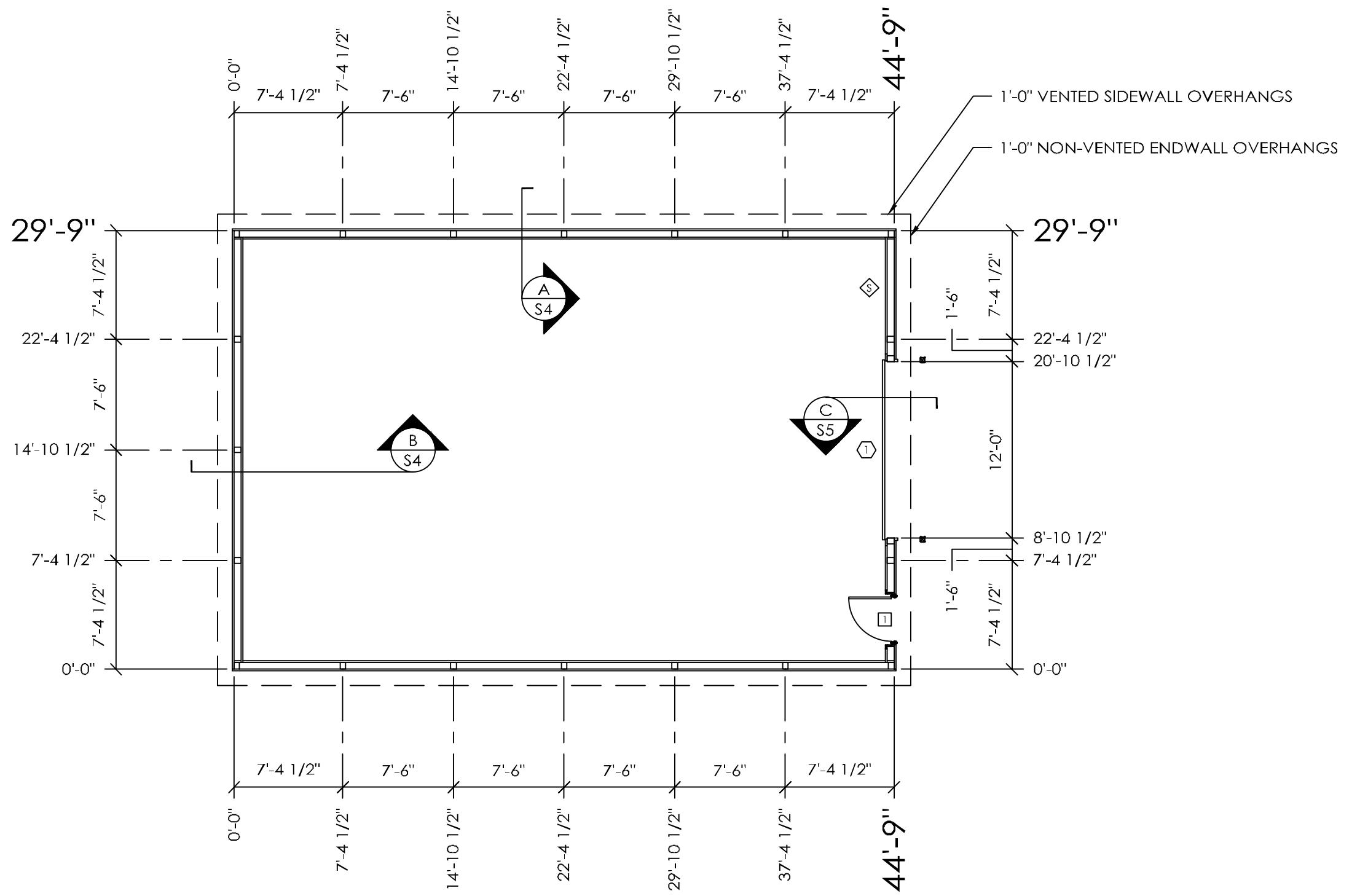
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AS-BUILT  
PLANS

SCALE: AS NOTED  
SHEET NO.  
S1 OF S6



COLUMN PLAN

SCALE: 2' 8'  
1' 4' 16'



COLUMN PLAN LEGEND

- - 3-2x6 LAMINATED COLUMN LOCATION
- - 3068 9-LITE TEMPERED GLASS IN PLAIN FLAT LEAF FIBERSTEEL WALKDOOR, IN SWING, LEFT HINGE WITH INTERCONNECTED LEVER LOCKSET & DEADBOLT
- - 12'-2" x 14'-1" OVERHEAD DOOR(S) WITH 4' x 4" JAMB PROTECTORS
  - 30" x 30" ATTIC ACCESS PANEL (VERIFY LOCATION)
  - ALL EXTERIOR STEEL FASTENED WITH STAINLESS STEEL SCREWS
- ◊ - 7/16" OSB SHEARWALL LOCATION (SEE DETAILS ON SHEET S5 OF S6)

ROUGH OPENING SCHEDULE

UNIT SYMBOL FROM LEGEND	WIDTH	HEIGHT
□	38 1/4"	81"

SCALE: AS NOTED  
SHEET NO.  
S1 OF S6



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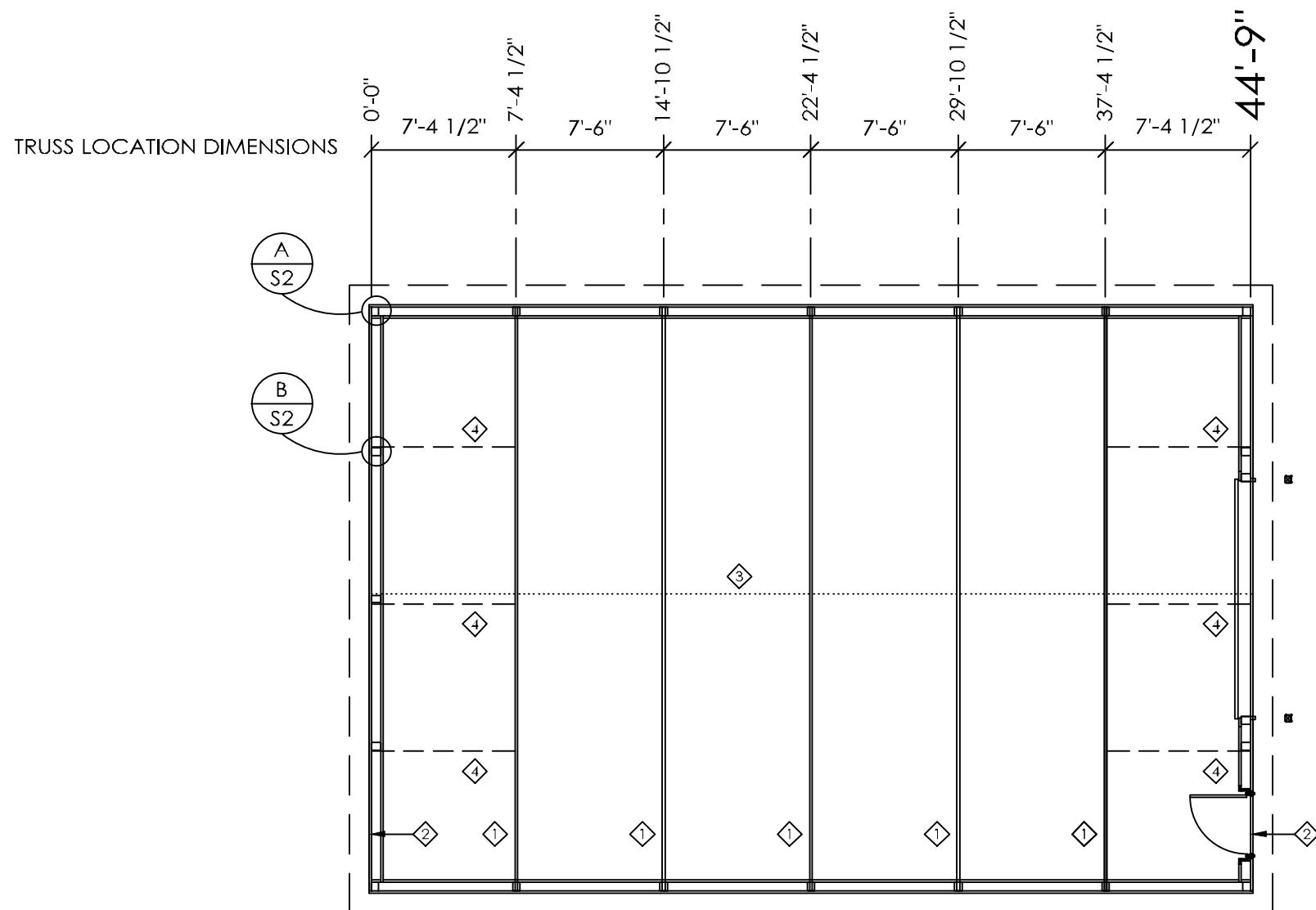
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AS-BUILT  
PLANS



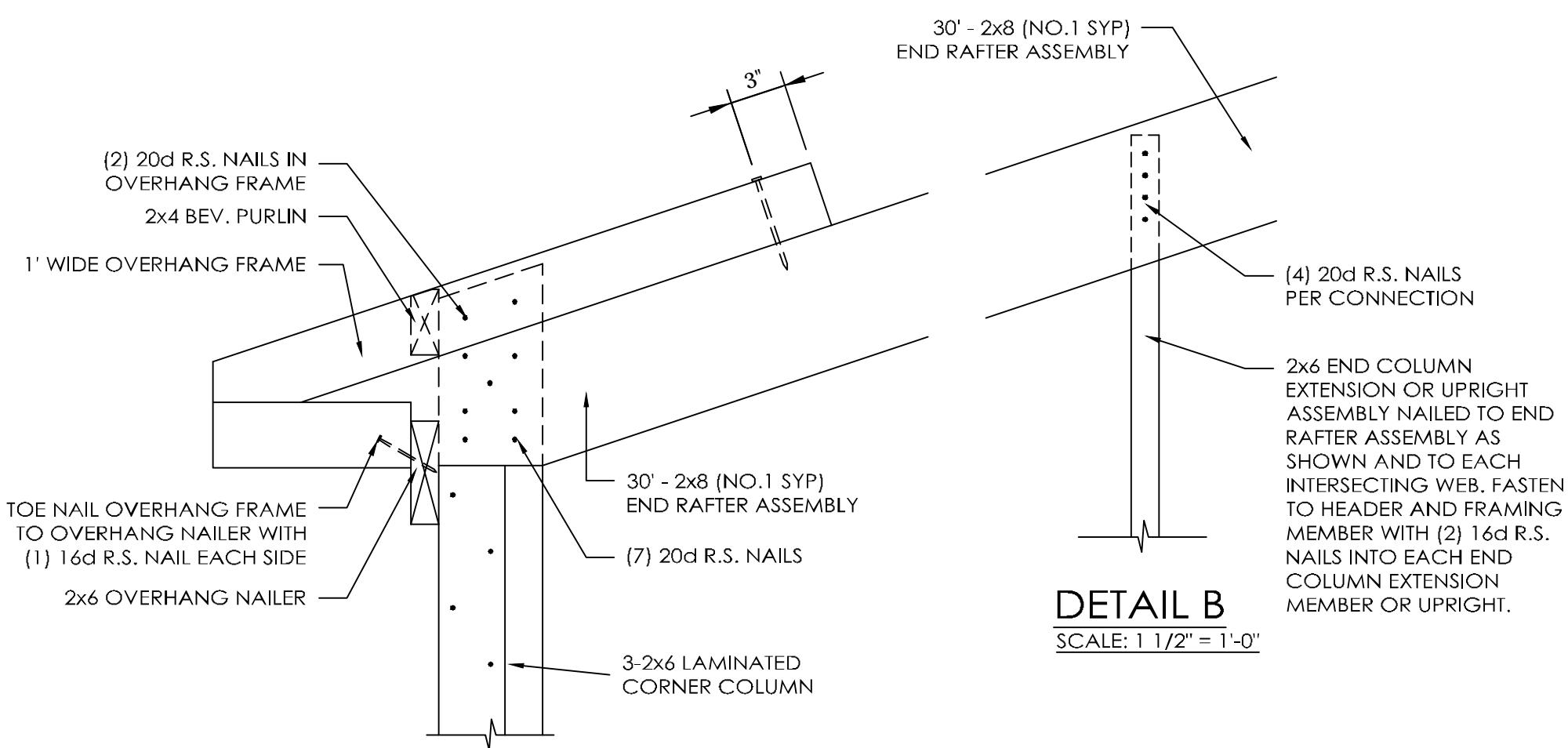
TRUSS/BRACING PLAN

SCALE: 2' 8'  
1' 4' 16'



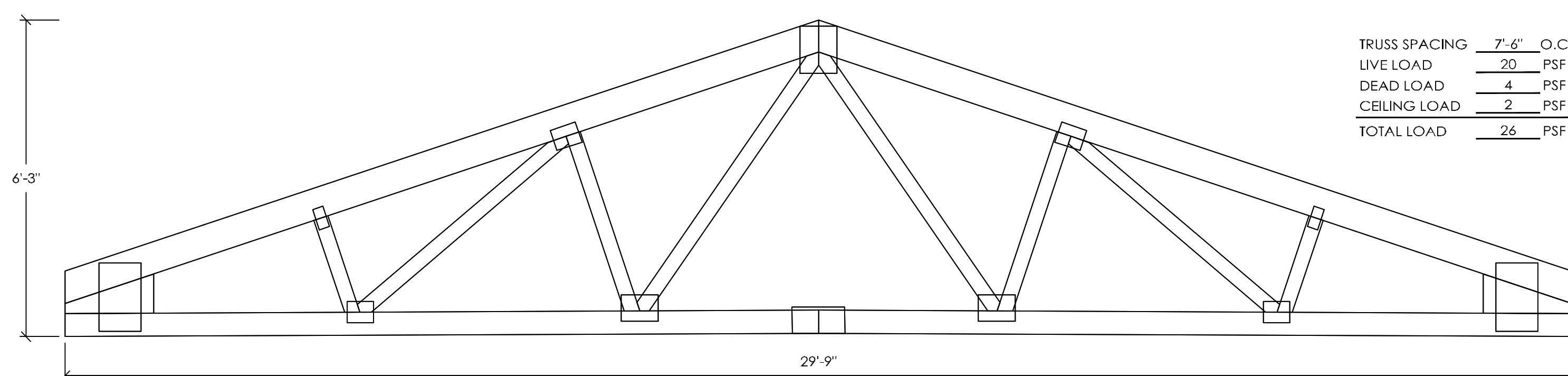
TRUSS/BRACING PLAN LEGEND

- ◇ - 30' 2090 S.C. TRUSSES @ 7'-6" O.C.
- ◇ - 30' END RAFTER ASSEMBLY
- ◇ - 2x6 FLAT TRUSS TIE CENTERED IN BUILDING
- ◇ - 2x6 DIAGONAL END BRACES



DETAIL A

SCALE: 1 1/2" = 1'-0"



SCALE: AS NOTED  
SHEET NO.  
S2 OF S6

## DESIGN AND EXPLANATORY NOTES

1.) EXTERIOR DOOR AND WINDOW LOCATIONS ARE TAKEN FROM THE EXTERIOR FACE OF THE NAILERS AND ARE TO THE CENTER OF THE DOOR AND WINDOW UNITS. VERIFY ALL DOOR, WINDOW, SKYLIGHT AND SIDELIGHT LOCATIONS WITH THE OWNER.

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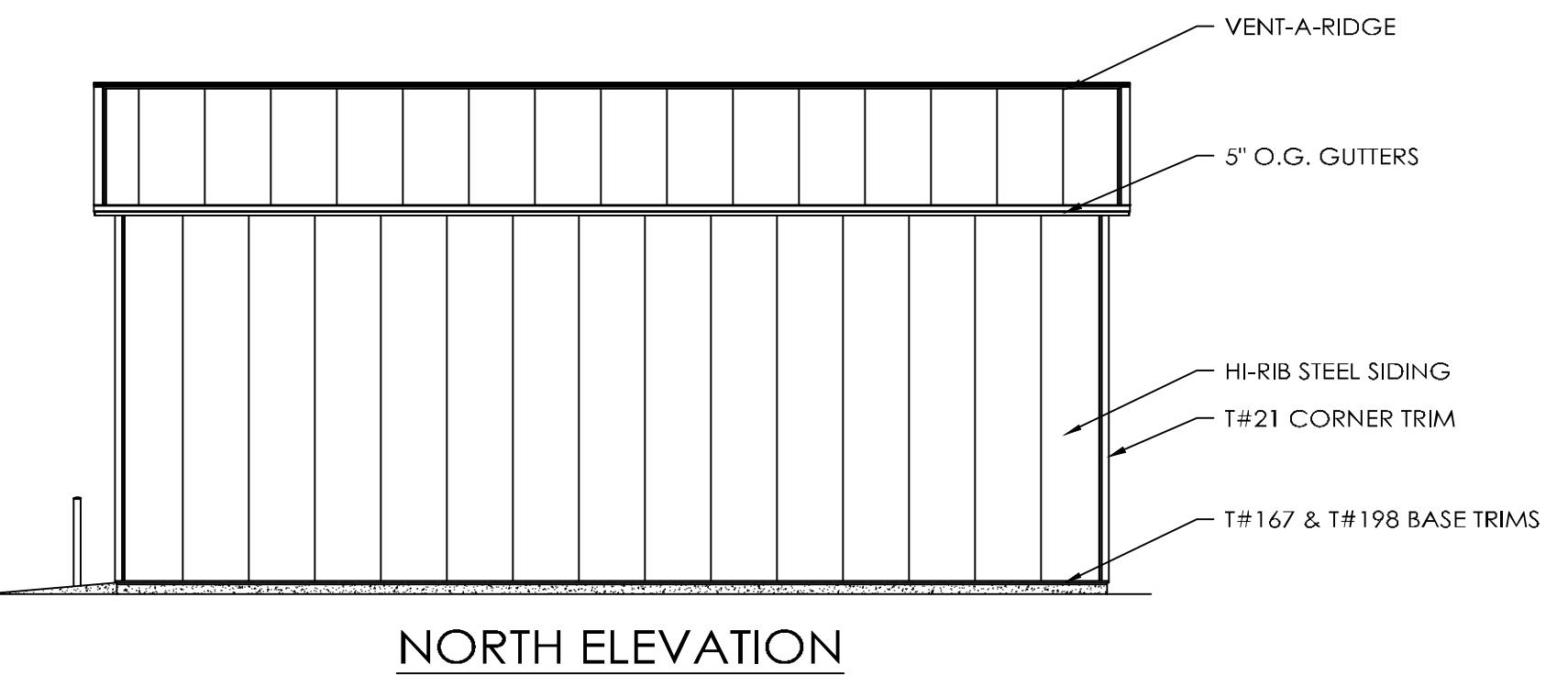
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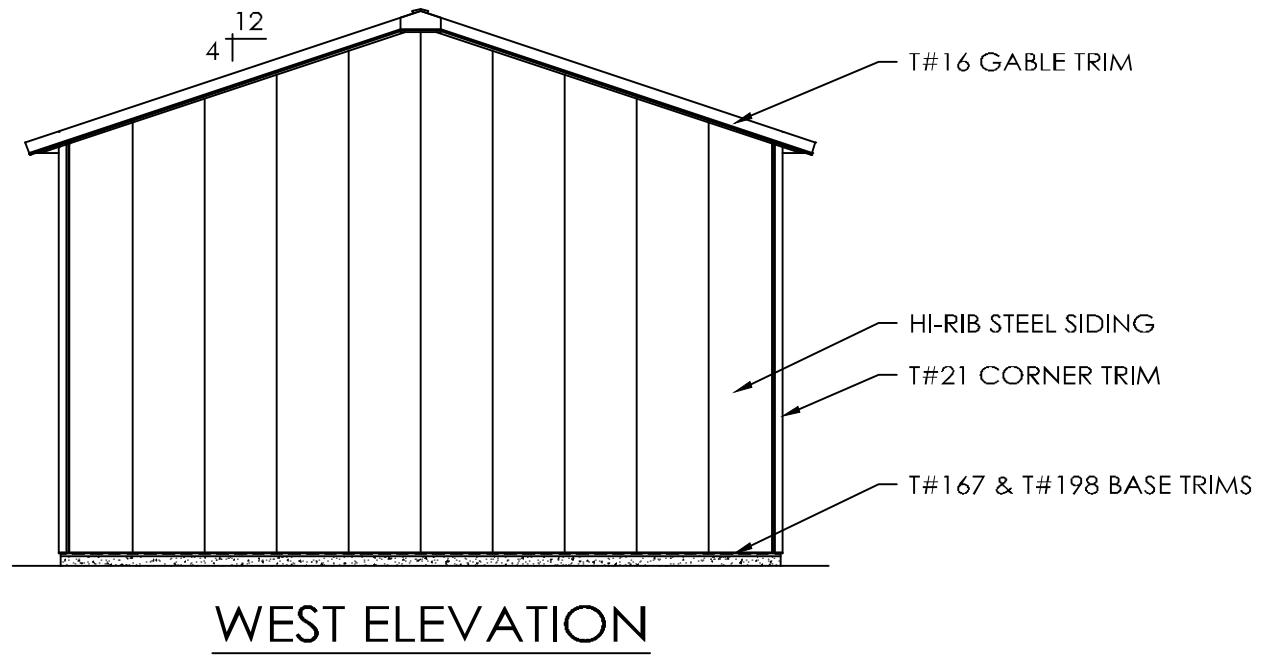
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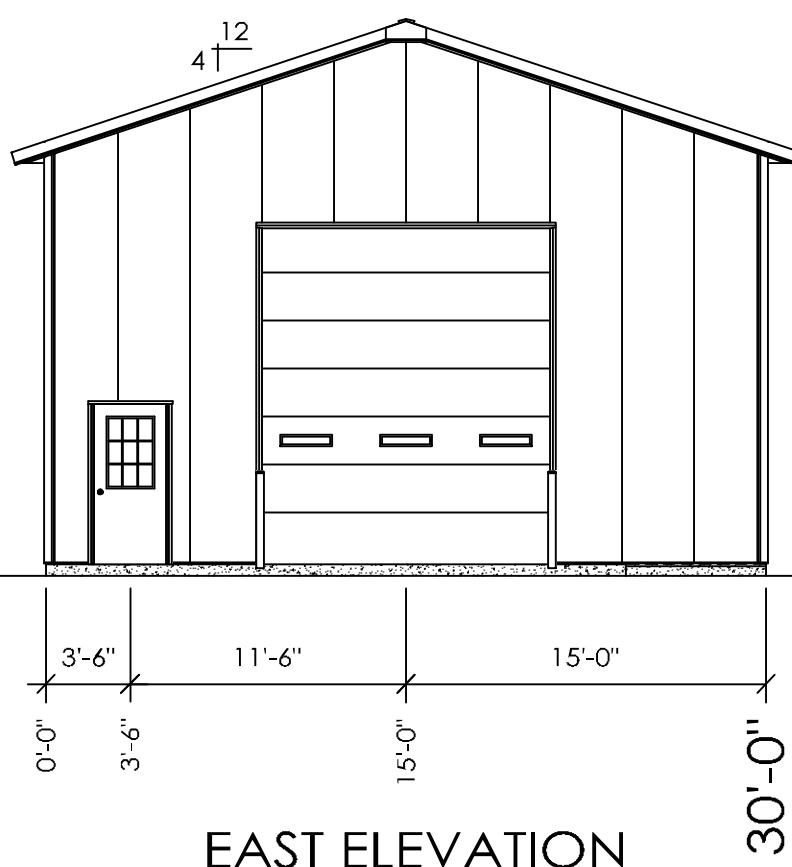
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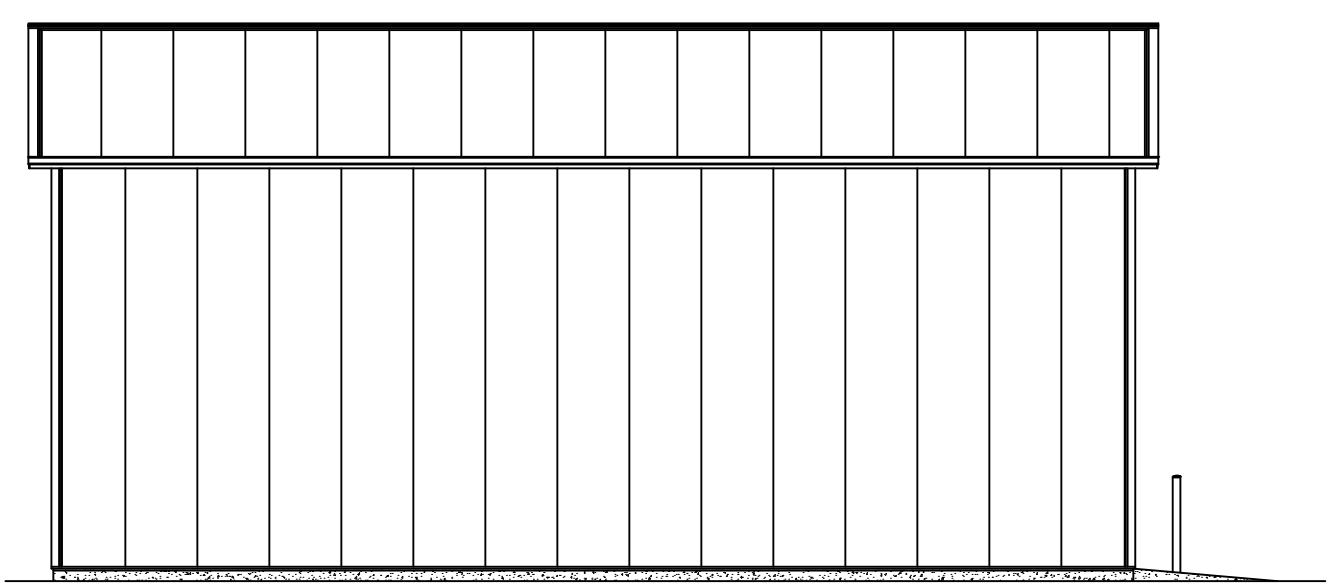
NORTH ELEVATION



WEST ELEVATION



EAST ELEVATION

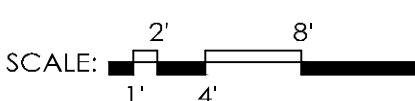


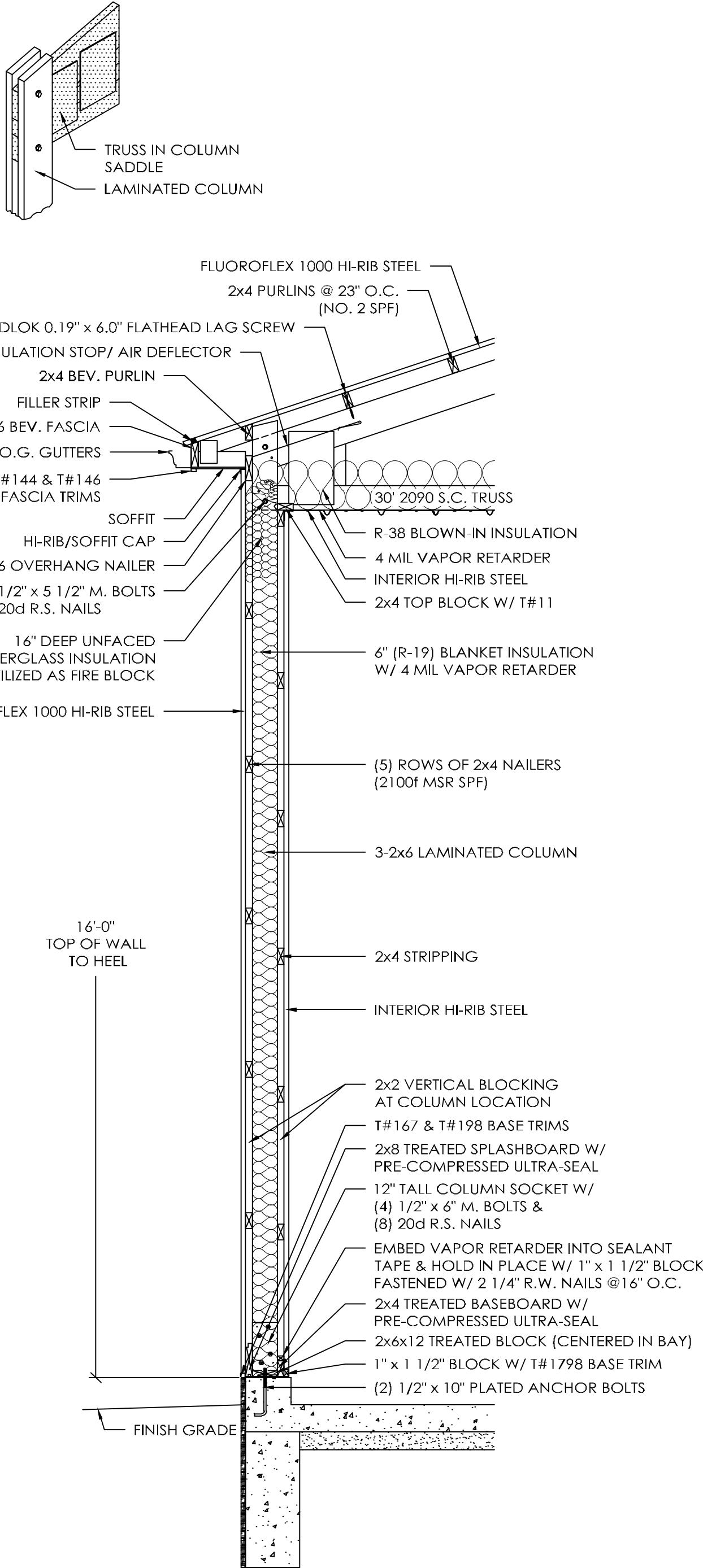
SOUTH ELEVATION

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AS-BUILT  
PLANS

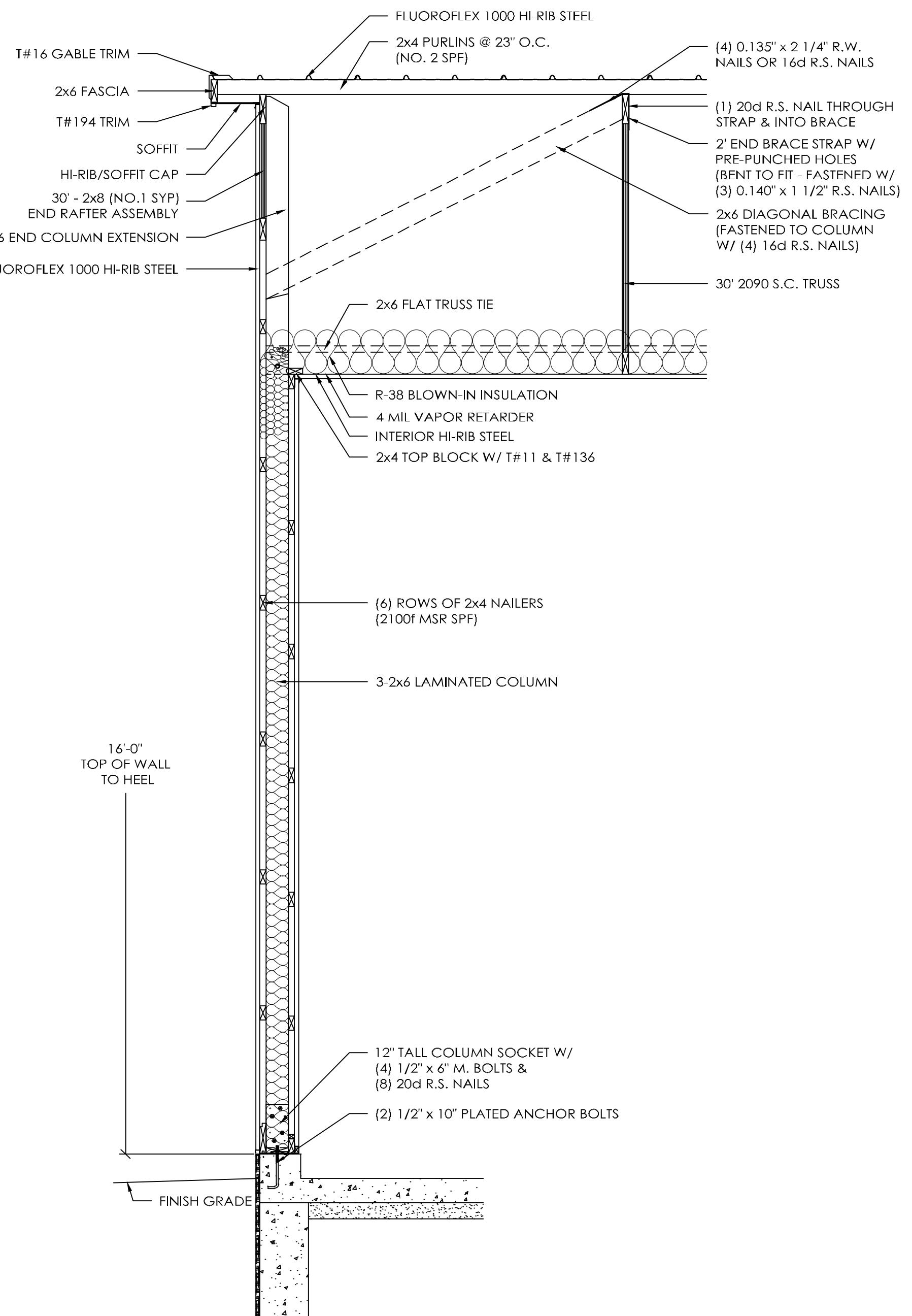
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SHEET NO.  
S3 OF S6





SIDEWALL SECTION A

SCALE: 1/2" = 1'-0"



ENDWALL SECTION B

SCALE: 1/2" = 1'-0"

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SCALE: AS NOTED  
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S4 OF S6



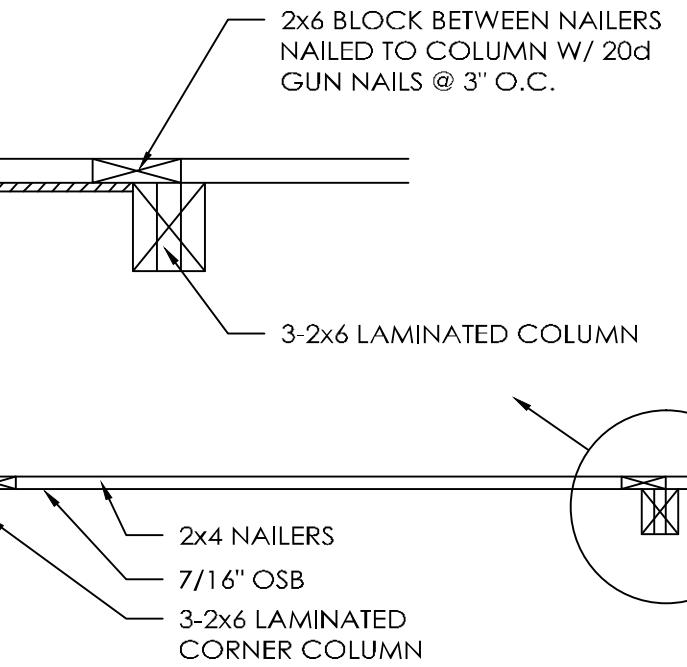
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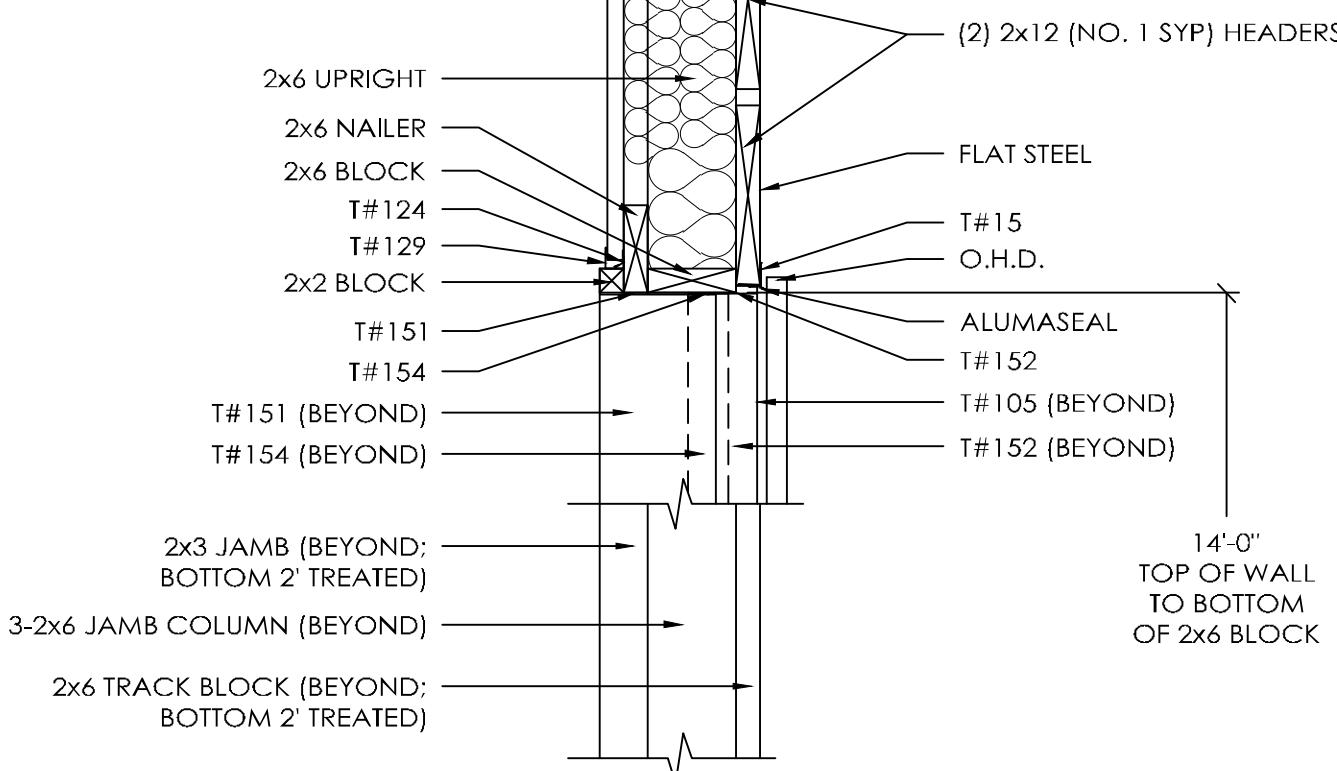
### 7/16" OSB SHEARWALL DETAIL

SCALE: 1/2" = 1'-0"

HEADER NAILING SCHEDULE		
HEADER MEMBER	UPRIGHT	JAMB COLUMN
EA, 2x12	8	8

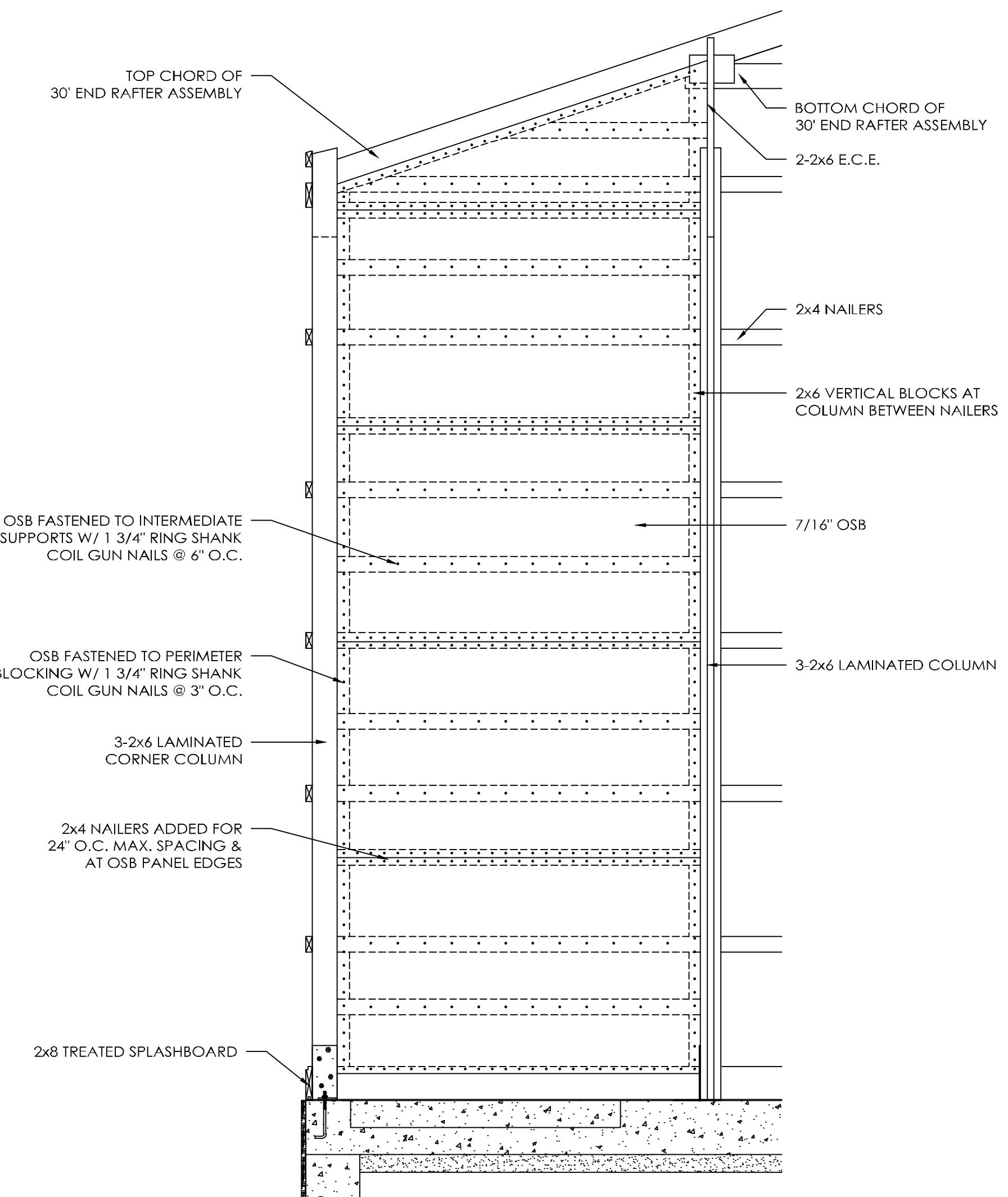
NOTES:

1. NUMBERS ABOVE ARE 20d R.S. NAILS REQUIRED PER CONNECTION.
2. PRE DRILL HEADERS AS REQUIRED TO PREVENT SPLITTING.
3. IF NUMBER OF NAILS REQUIRED FOR HEADER TO JAMB COLUMN CONNECTION IS EXCESSIVE TO CAUSE SPLITTING, THE EXCESS NAILS MAY BE INSTALLED IN HEADER SUPPORT BLOCKING.



### OVERHEAD DOOR HEADER SECTION C

SCALE: 1/2" = 1'-0"



### 7/16" OSB SHEARWALL ELEVATION

SCALE: 1/2" = 1'-0"

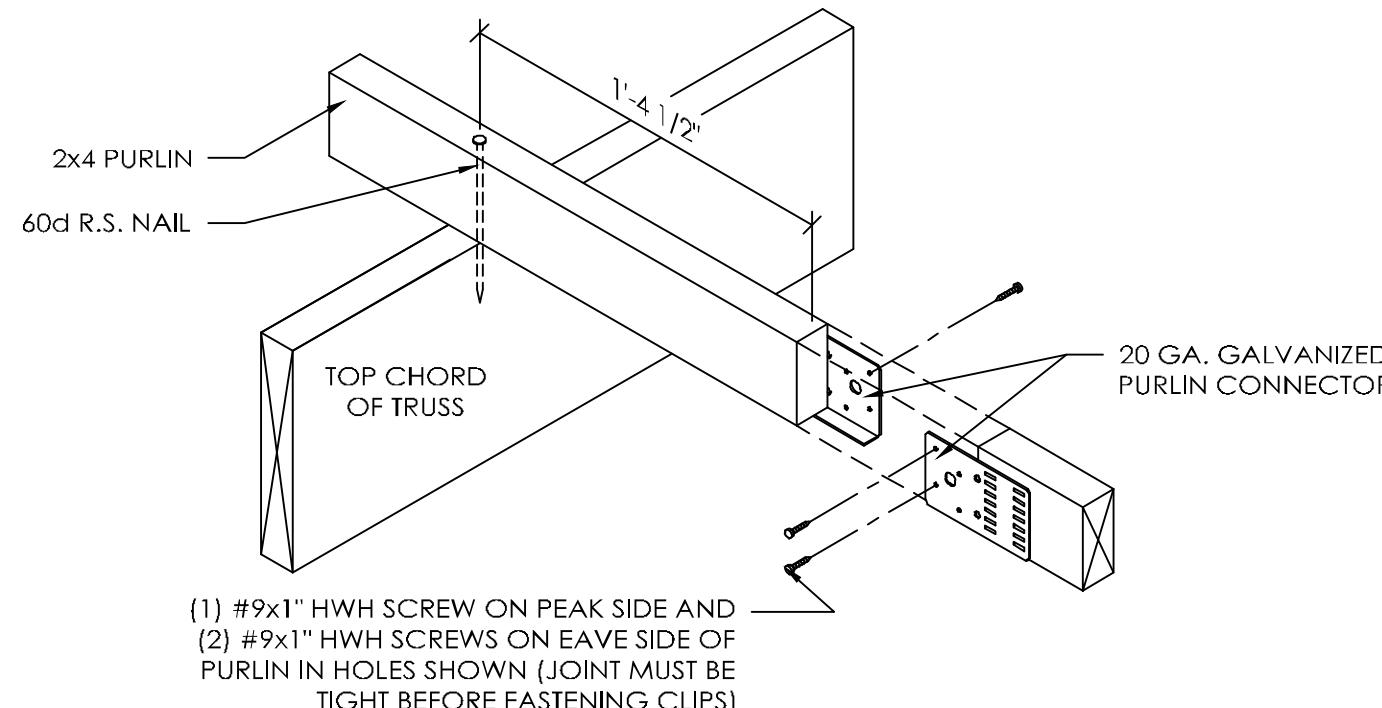


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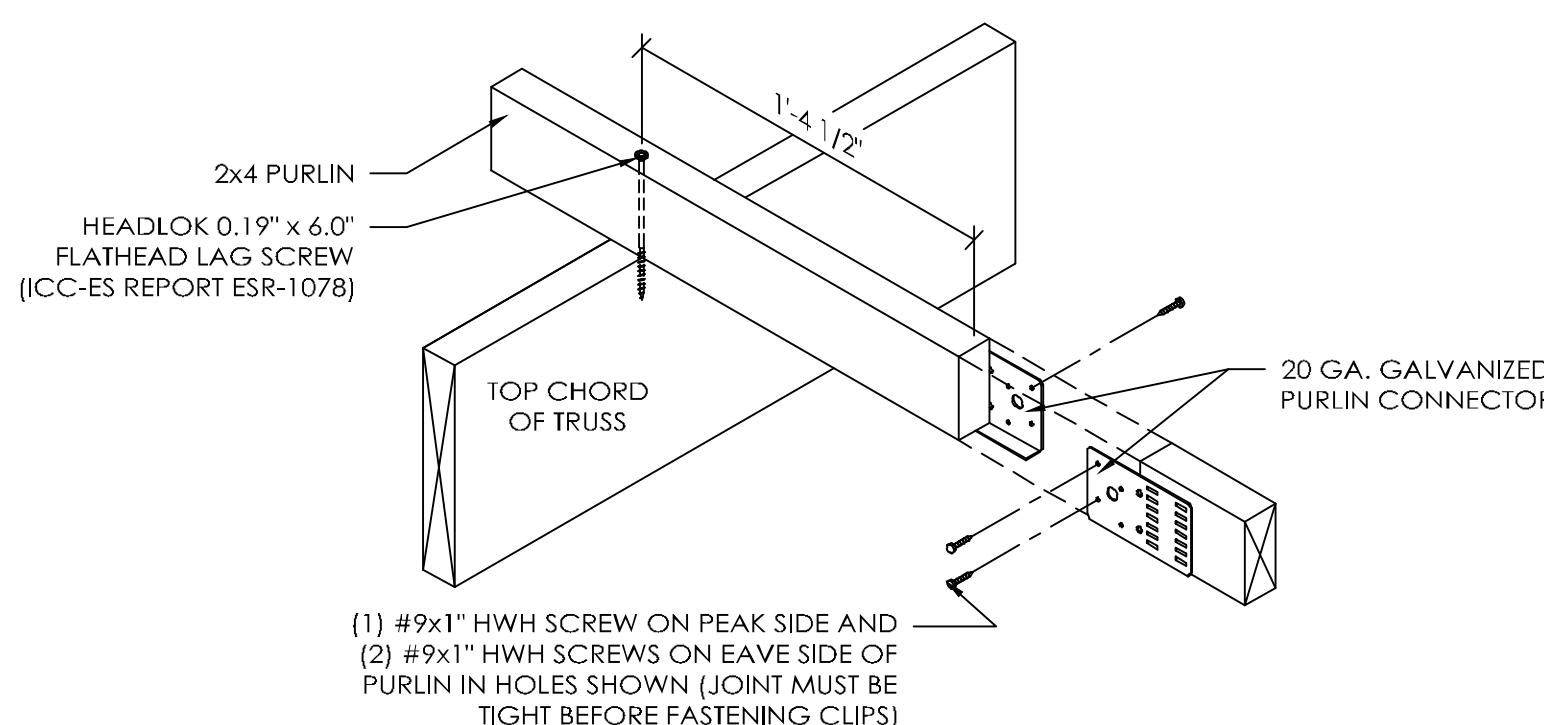
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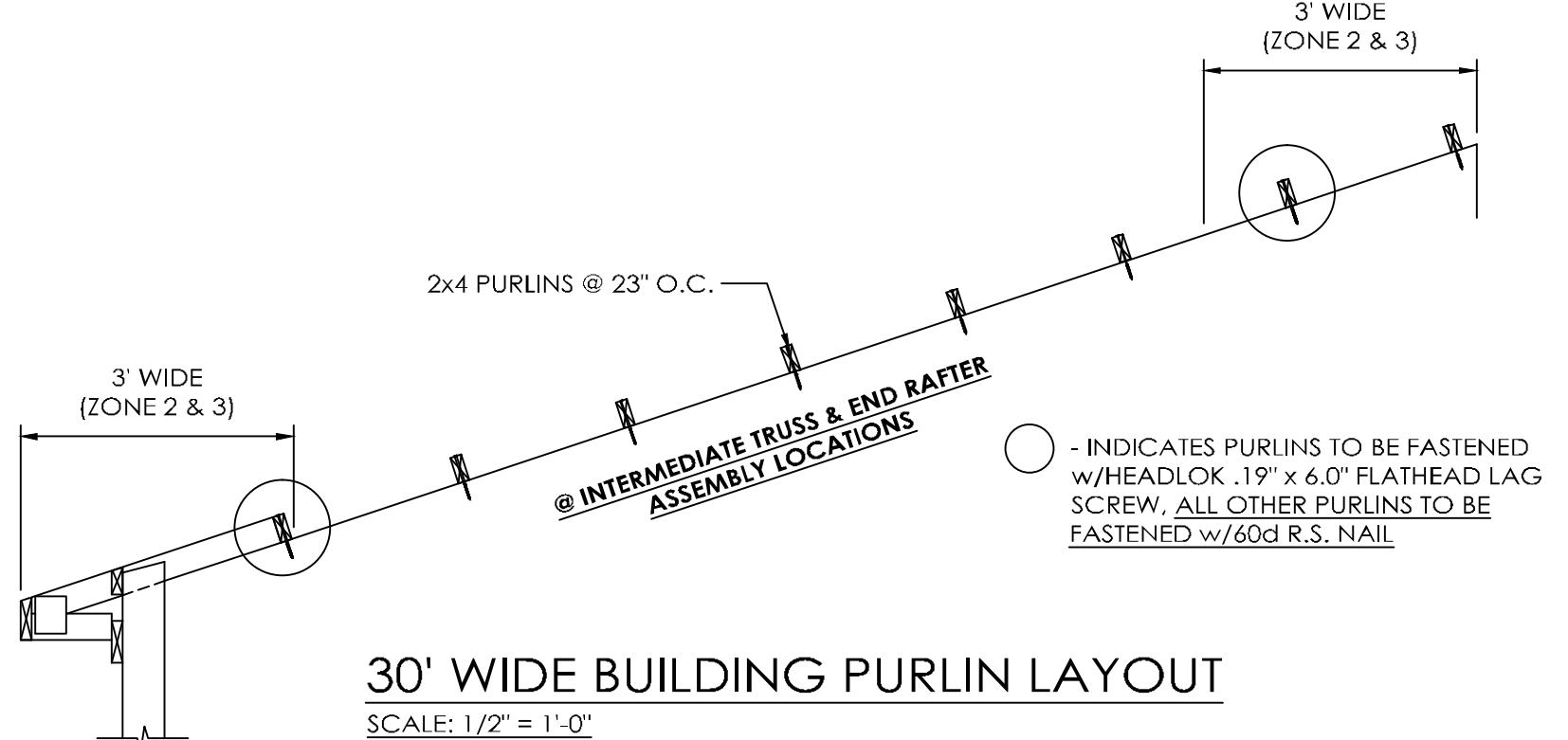
### 2x4 BUTTED PURLIN DETAIL

(PURLIN CONNECTED WITH 60d R.S. NAIL)  
SCALE: 1 1/2" = 1'-0"



### 2x4 BUTTED PURLIN DETAIL

(PURLIN CONNECTED WITH 6" HEADLOK FLATHEAD LAG SCREW)  
SCALE: 1 1/2" = 1'-0"



### 30' WIDE BUILDING PURLIN LAYOUT

SCALE: 1/2" = 1'-0"

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