



NEW FREESTANDING GREENHOUSE

SPECIFICATIONS:

Description: Elongated octagonal free-standing self-supporting greenhouse on a stone kneewall.

Included equipment summary: interior motorized shading, HAF fan, IPE benches, misting system, Procom computer controller with Growlink PC interface, two independently operated motorized ridge vents.

Glass: $\frac{1}{4}$ " clear tempered over $\frac{1}{4}$ " clear tempered lites, 1" O.A., low-E and argon filled.

Metal: WSD aluminum thermally broken greenhouse extrusions with white painted finish.

Door & Hardware: 2 new commercial glass entrance doors (one pair and one single) and hardware, narrow stile aluminum and insulated glass as described above, 1 pair standard pivots, lockset, thumbturn, cylinder, closer push-pull, weatherstrip, and sweep.

Windows: 12 operable casement vent windows, commercial quality, roto-crank operating hardware and screens.

NOTE:

Computer equipment drawings will be issued at a later date.

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- 14-Mech/elec plan

DRAWING APPROVAL: We have reviewed these drawings and approve their use for construction of the greenhouse. Any comments or suggestions have been added to the drawings.

Authorization by owners:

signature:_____ date_____

signature:_____ date_____

INSERT MAP TO SITE



North

Manufacturer/Installer:
WISCONSIN SOLAR DESIGN
6349 Briarcliff Ln., Middleton, WI 53562

Job site address:

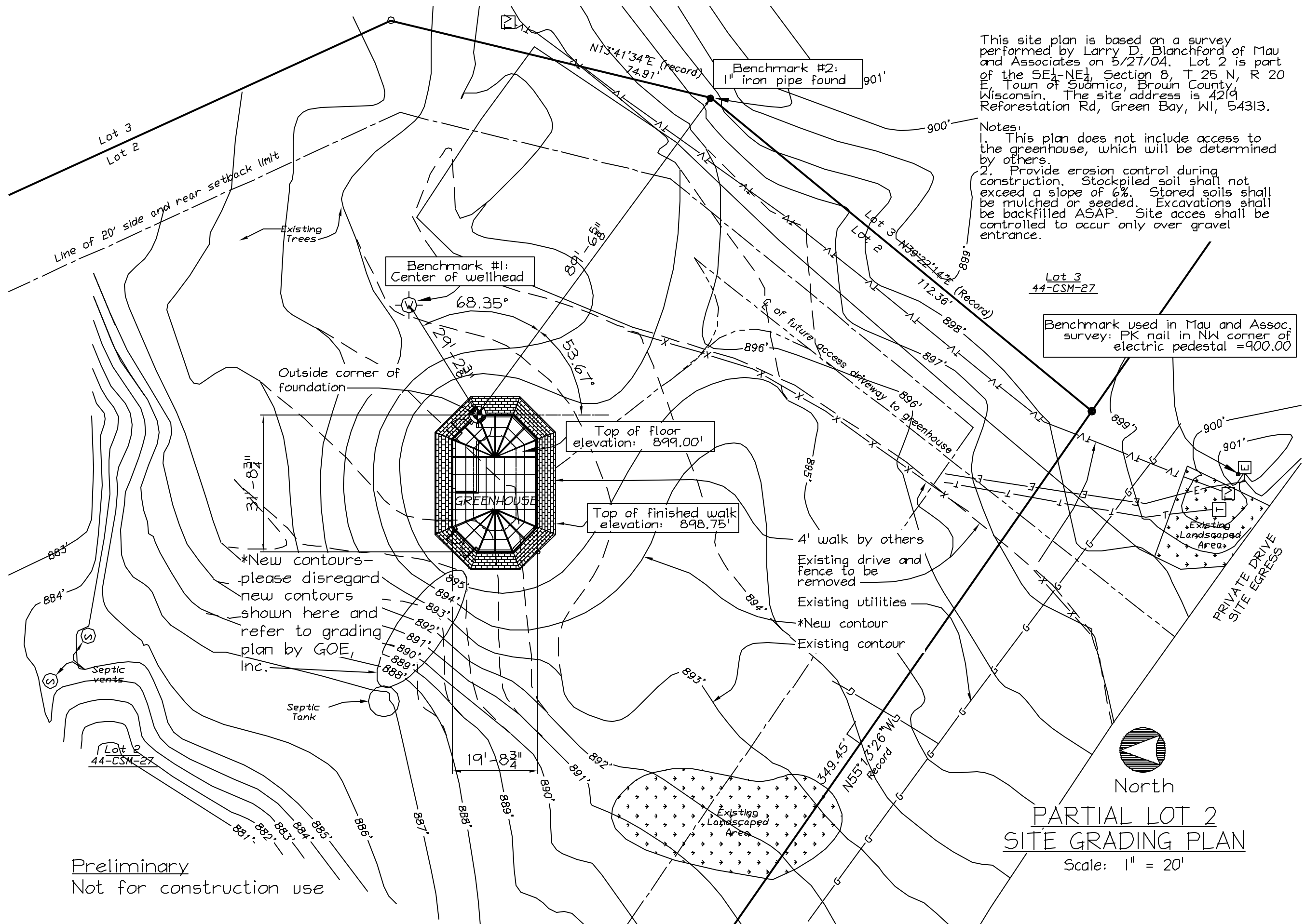
4229 Reforestation Road
Green Bay, WI 54313

Project:

Greenhouse for
Drs. David and Connie
Stampfl

1 of 4

Issued:
10/18/04



This site plan is based on a survey performed by Larry D. Blanchford of Mau and Associates on 5/27/04. Lot 2 is part of the SE $\frac{1}{4}$ -NE $\frac{1}{4}$, Section 8, T 25 N, R 20 E, Town of Sudamico, Brown County, Wisconsin. The site address is 4229 Reforestation Rd, Green Bay, WI, 54313.

- Notes:
1. This plan does not include access to the greenhouse, which will be determined by others.
 2. Provide erosion control during construction. Stockpiled soil shall not exceed a slope of 6%. Stored soils shall be mulched or seeded. Excavations shall be backfilled ASAP. Site access shall be controlled to occur only over gravel entrance.

Lot 3
44-CSM-27

Benchmark used in Mau and Assoc. survey: PK nail in NW corner of electric pedestal = 900.00

Preliminary
Not for construction use

PARTIAL LOT 2
SITE GRADING PLAN
Scale: 1" = 20'

Manufacturer/Installer:

WISCONSIN SOLAR DESIGN

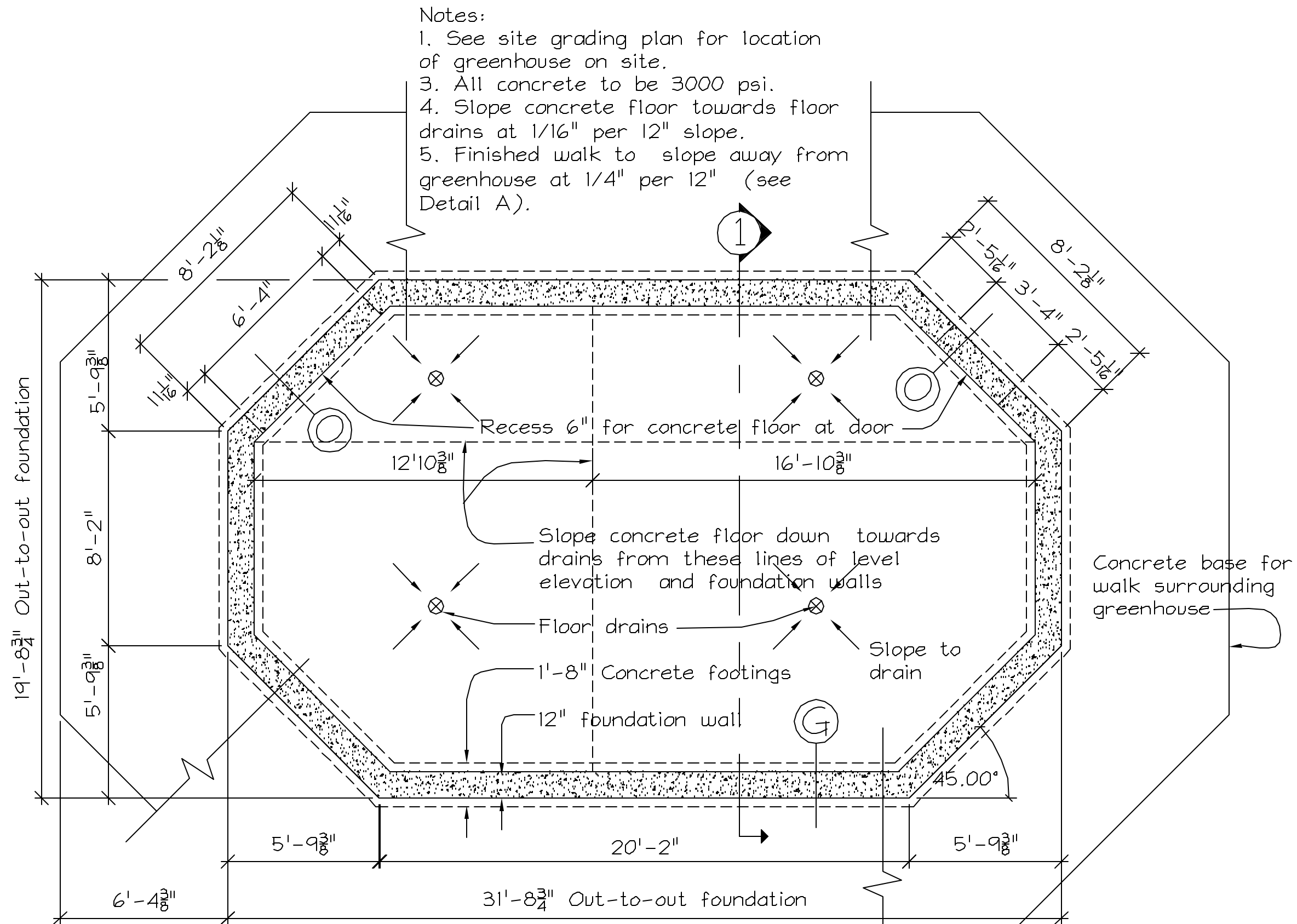
Job site address:

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Greenhouse for
Drs. David and Connie Stampf

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10/18/04



Project North

FOUNDATION PLAN

Scale: $1/4" = 1'-0"$

Manufacturer/Installer:

WISCONSIN SOLAR DESIGN

Job site address:

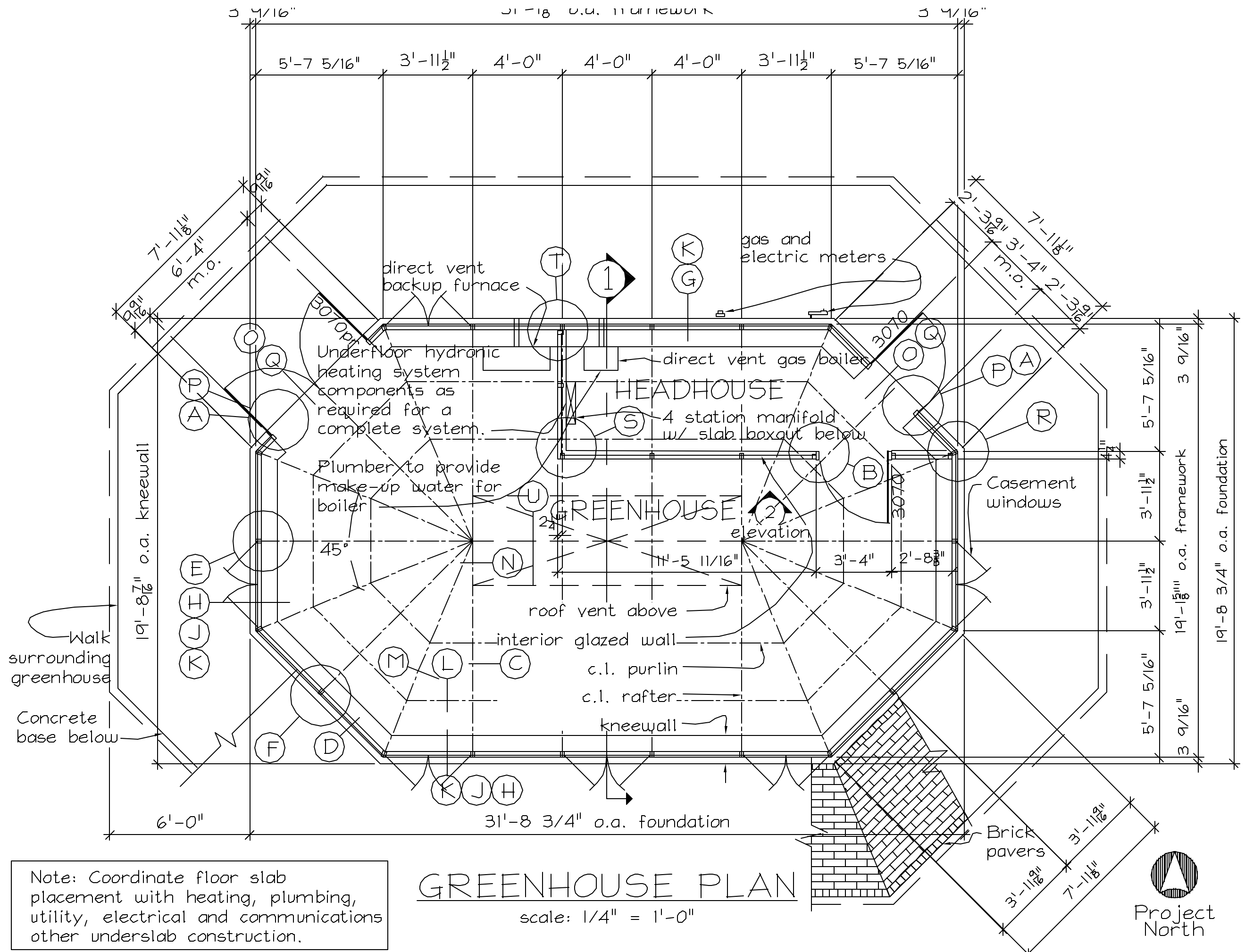
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Green Bay, WI 54313

Project:

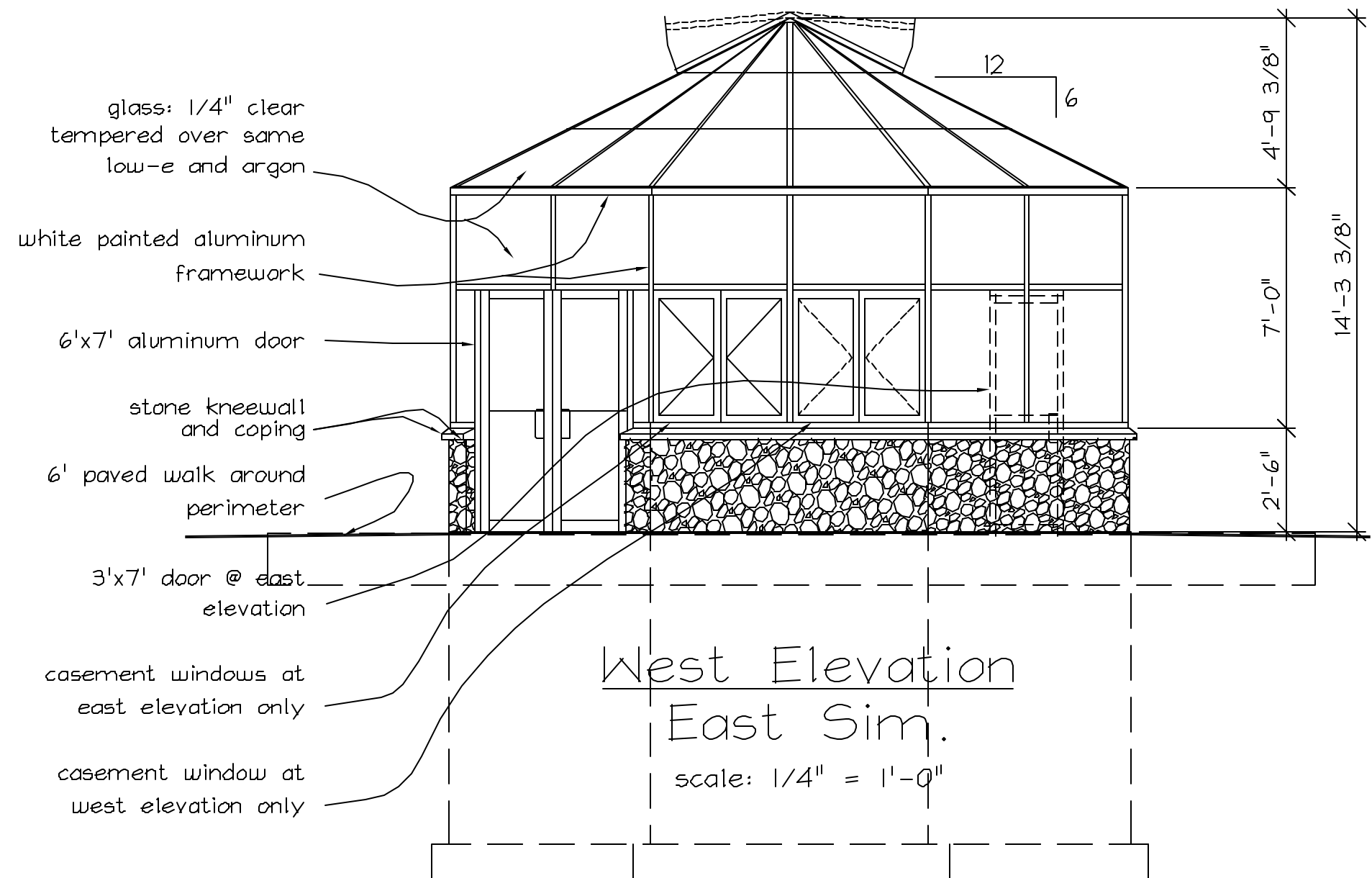
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Note: Coordinate floor slab placement with heating, plumbing, utility, electrical and communications other underslab construction.



Manufacturer/Installer:

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Job site address:

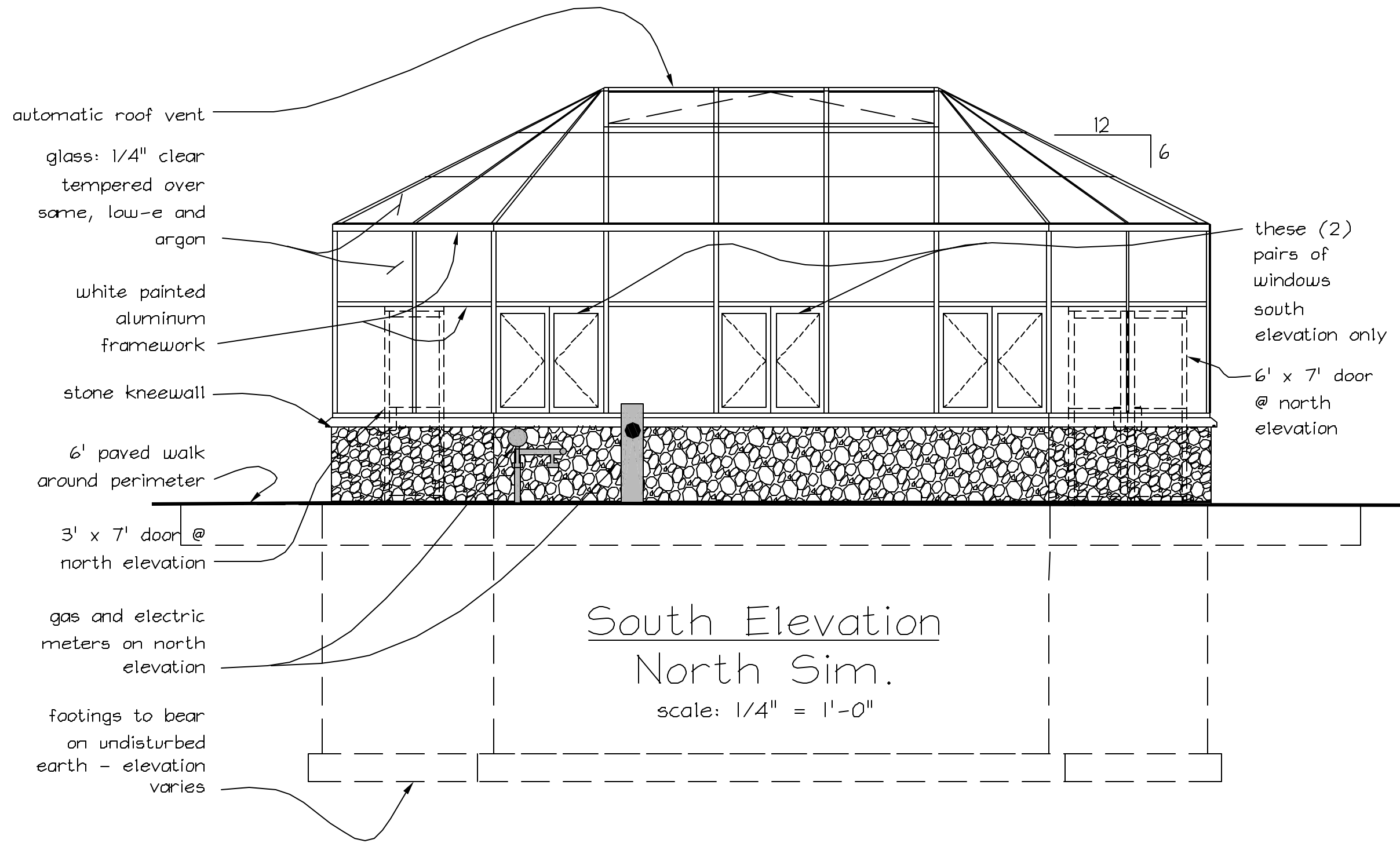
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Green Bay, WI 54313

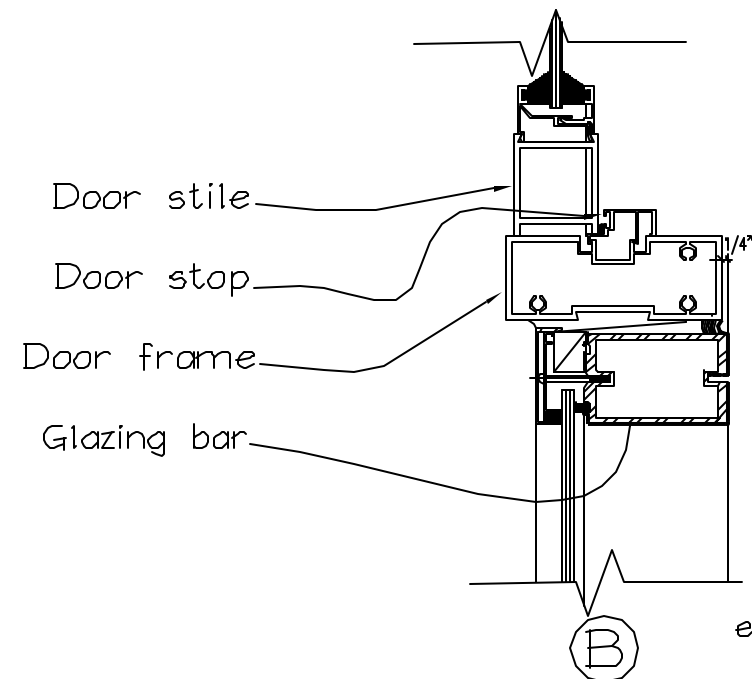
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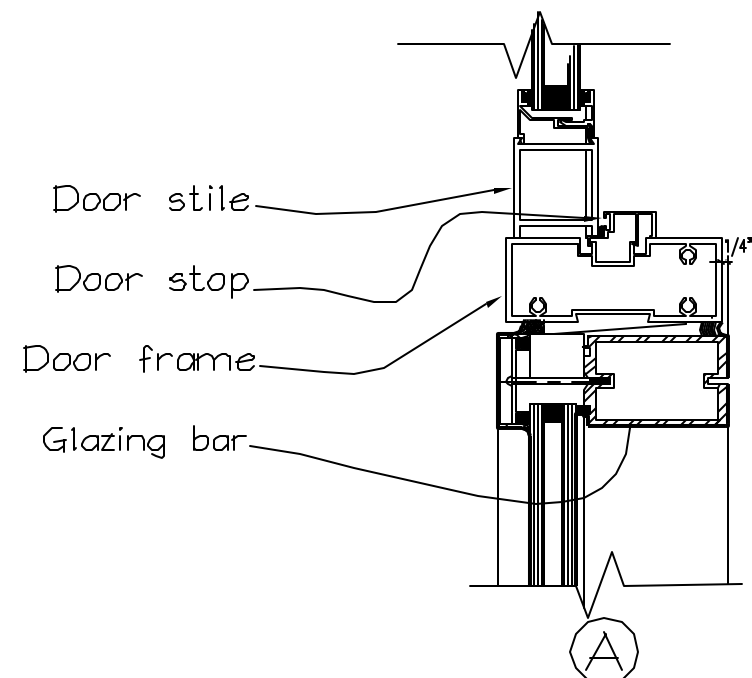
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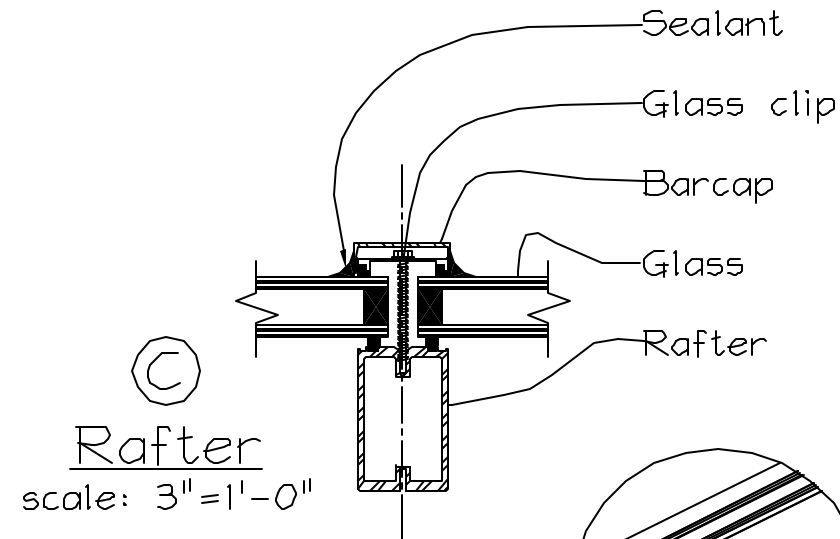




Door Jamb
scale: 3" = 1'-0"

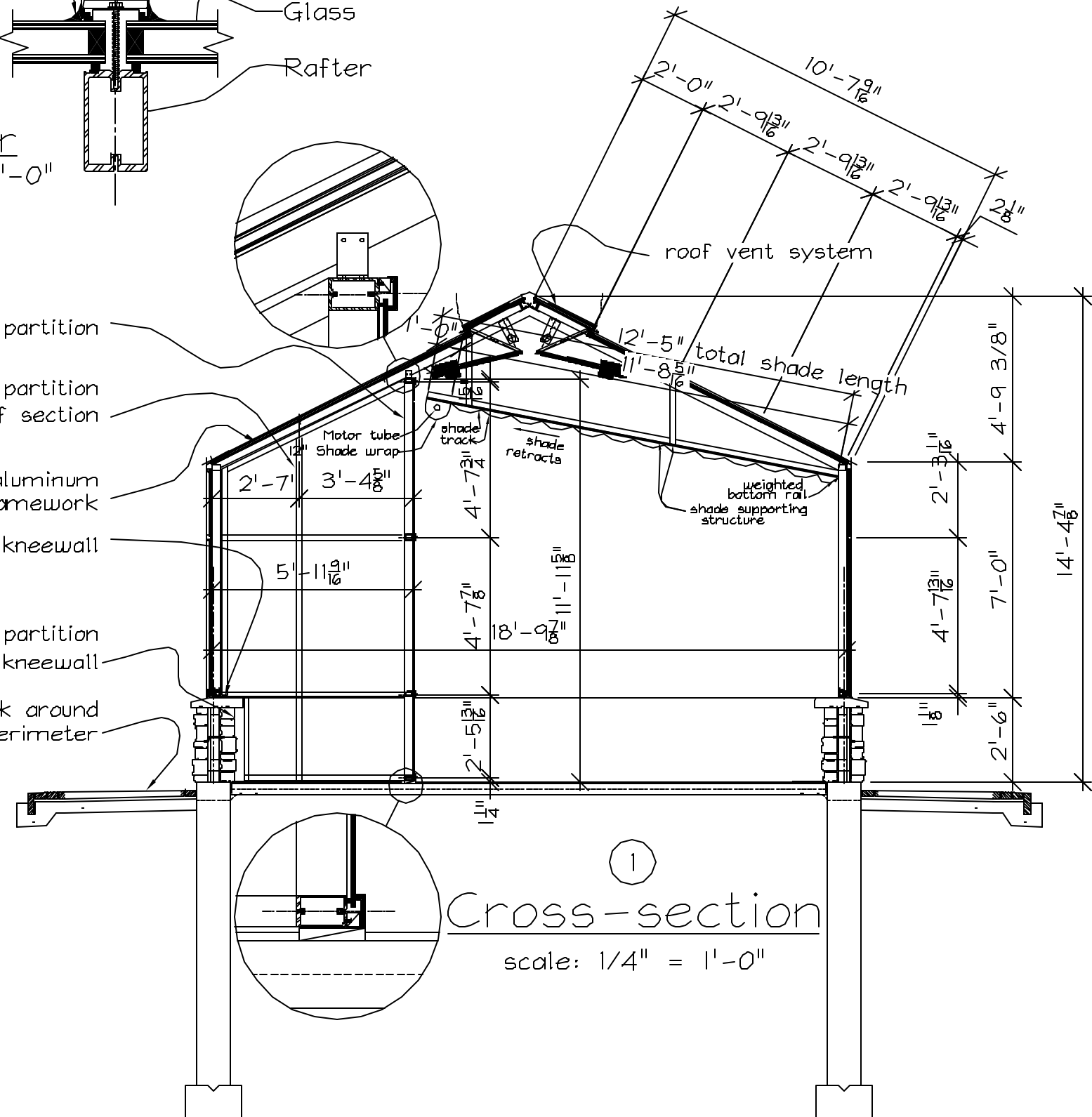


Door Jamb
scale: 3" = 1'-0"



Rafter
scale: 3" = 1'-0"

interior partition
interior glass partition
elevation in front of section
white painted aluminum
framework
stone kneewall
interior partition
open at stone kneewall
6' paved walk around
perimeter



Cross-section
scale: 1/4" = 1'-0"

Manufacturer/Installer:

WISCONSIN SOLAR DESIGN

Job site address:

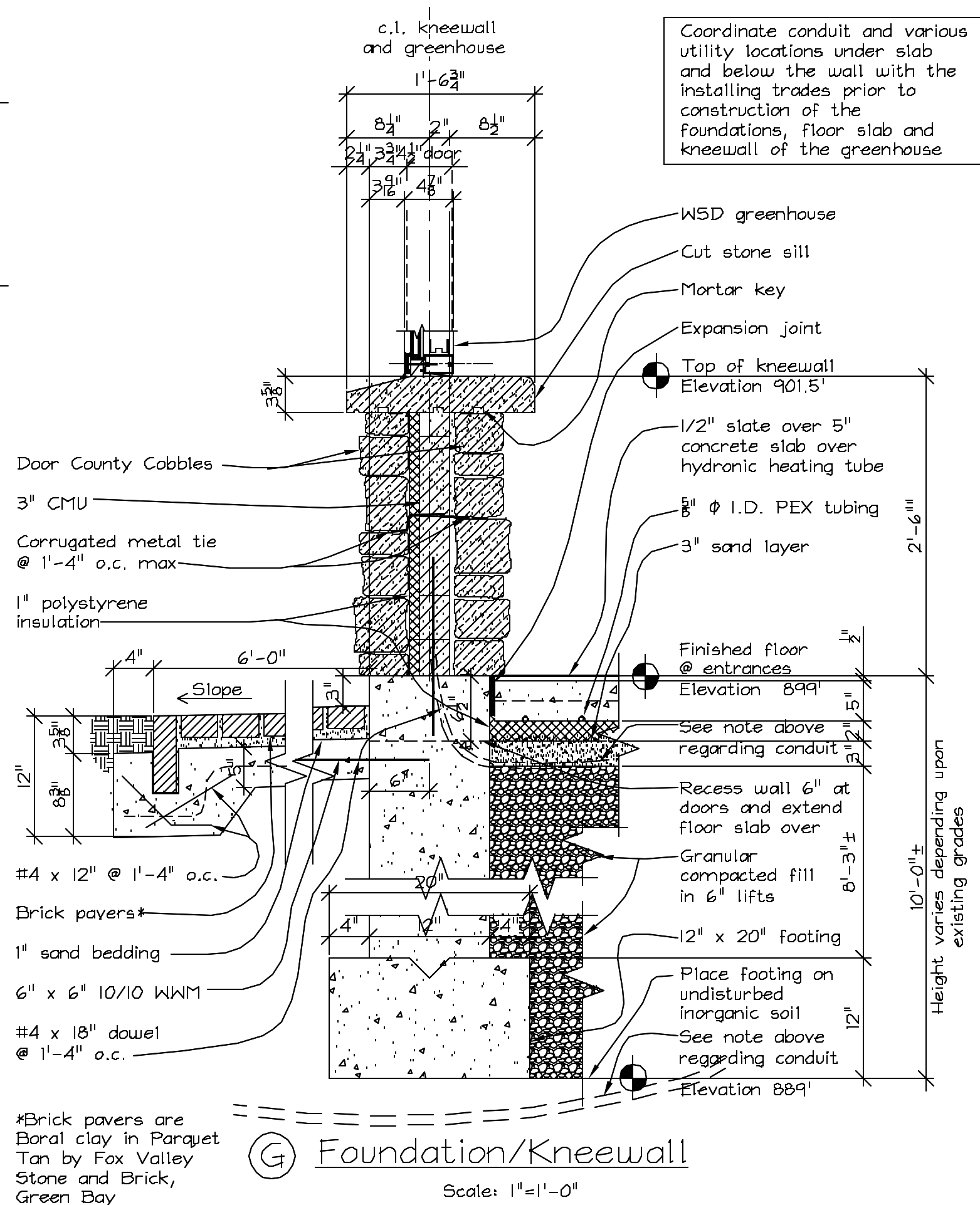
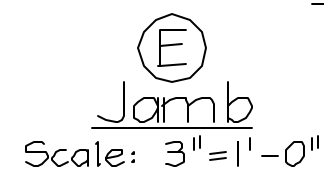
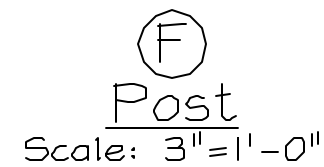
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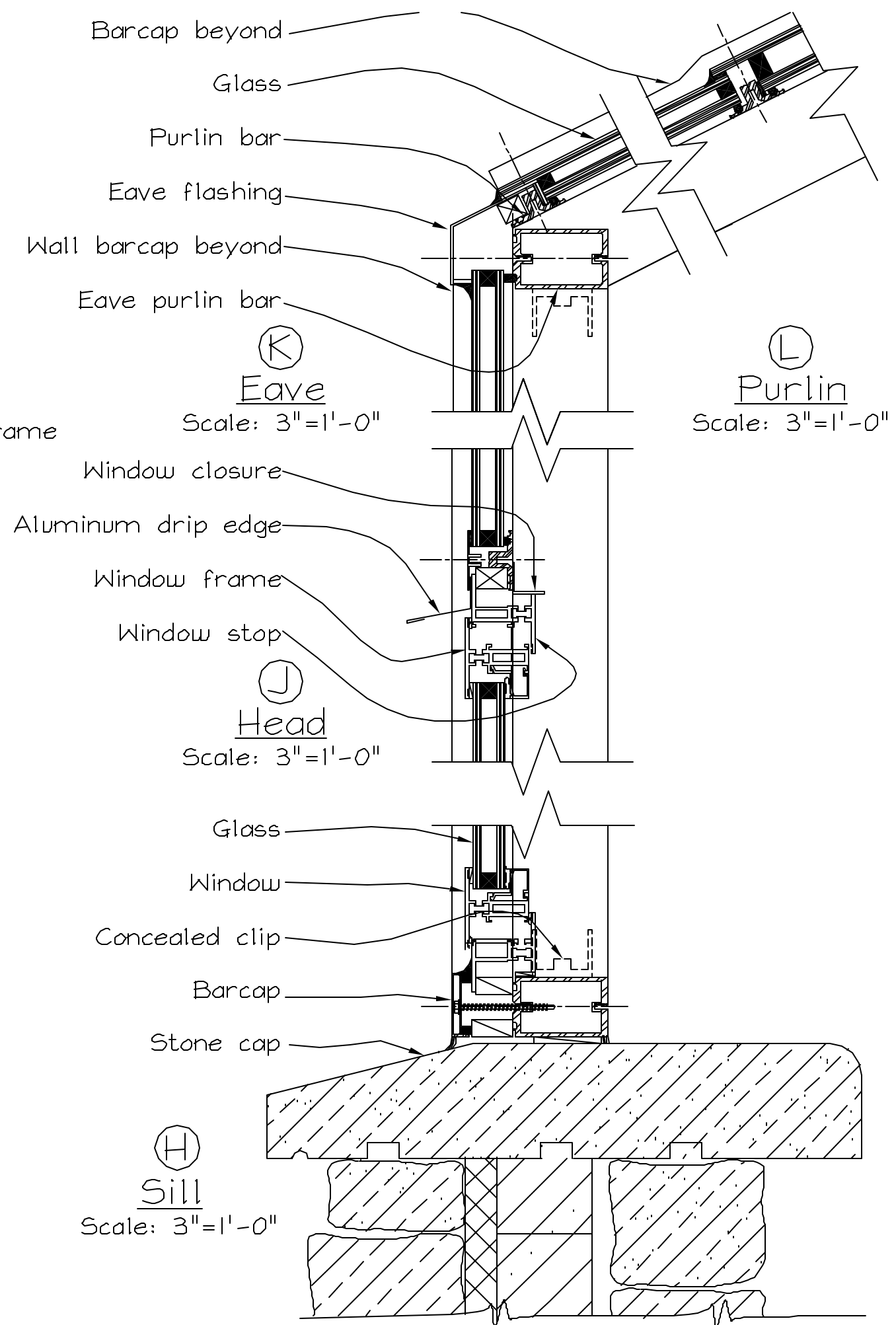
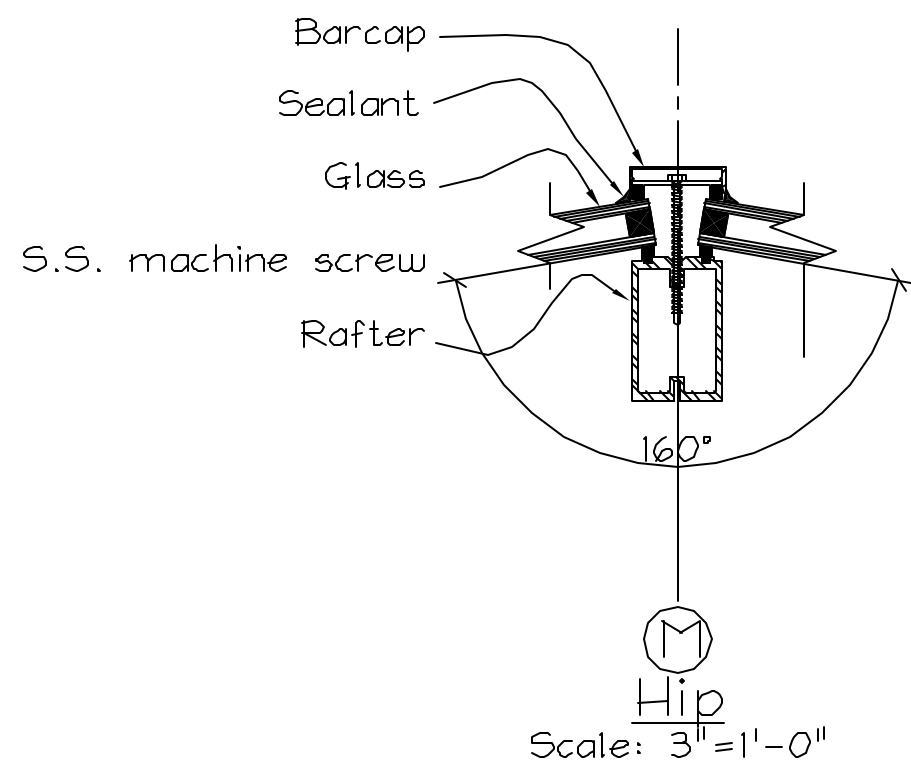
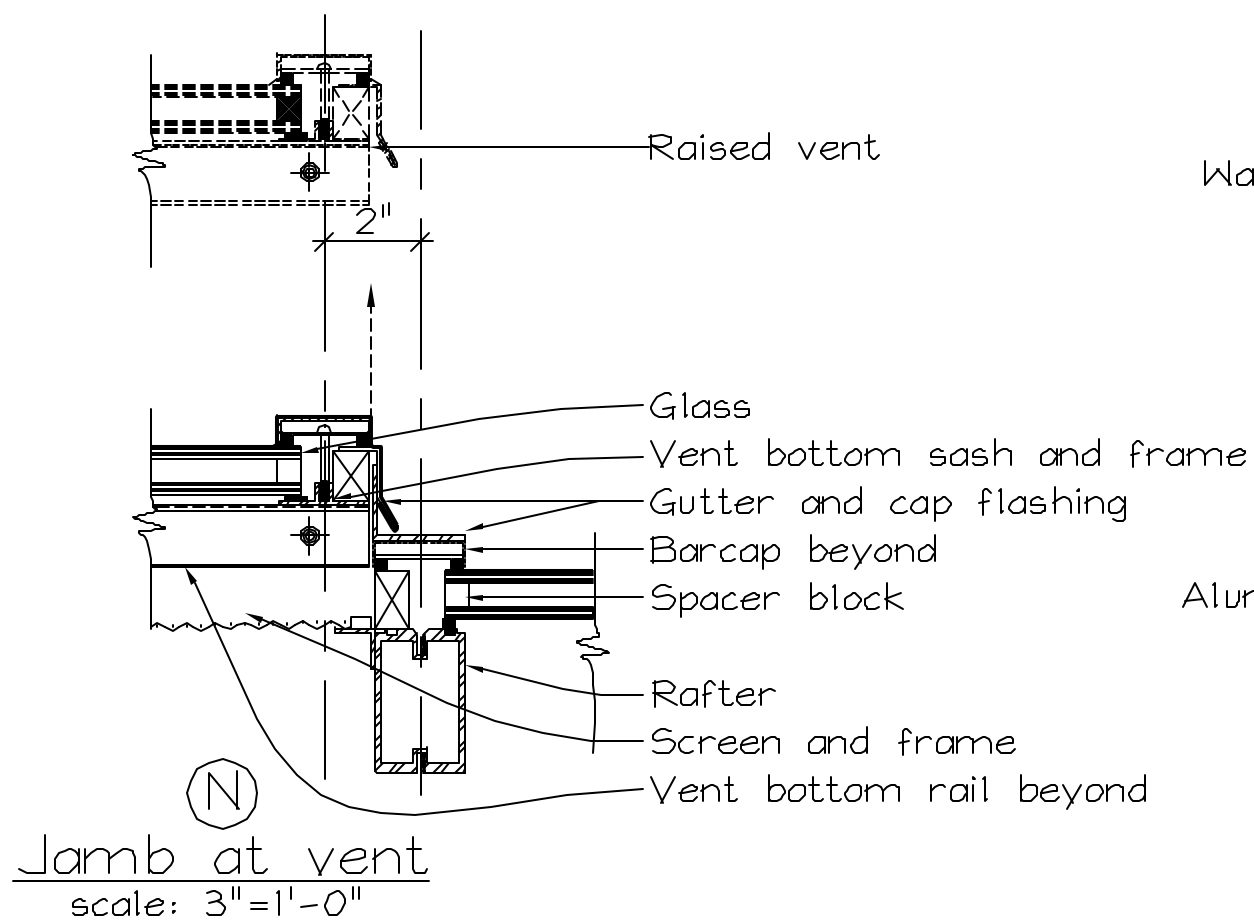


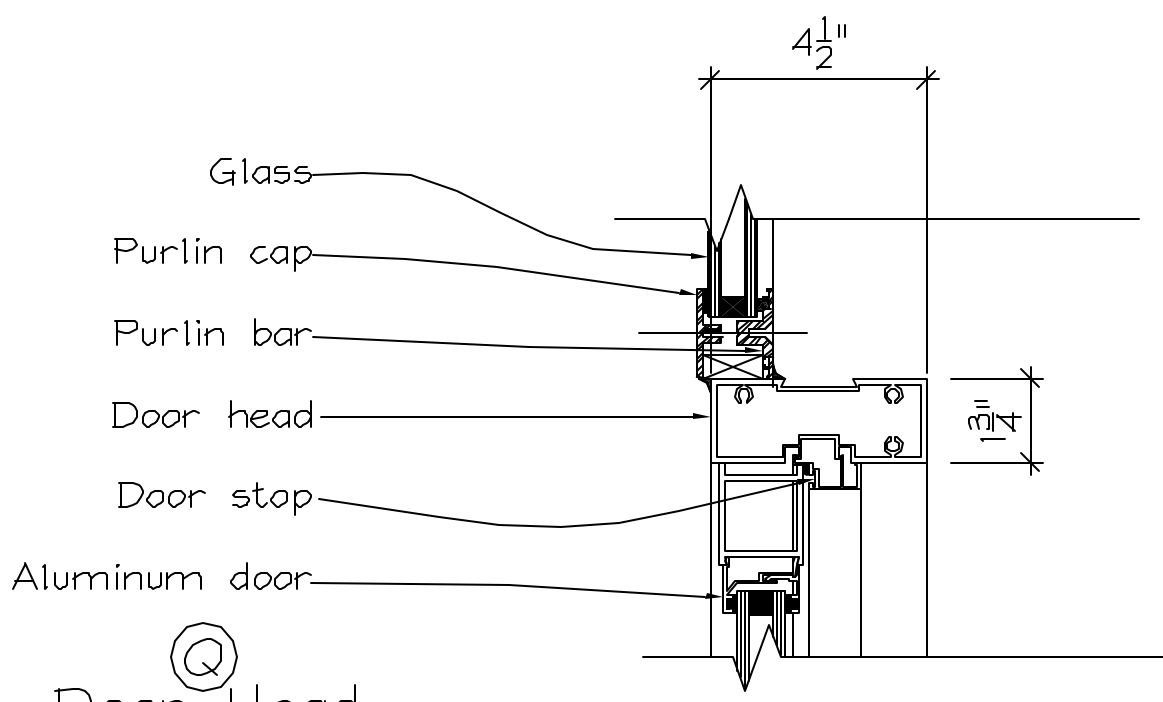
WISCONSIN SOLAR DESIGN

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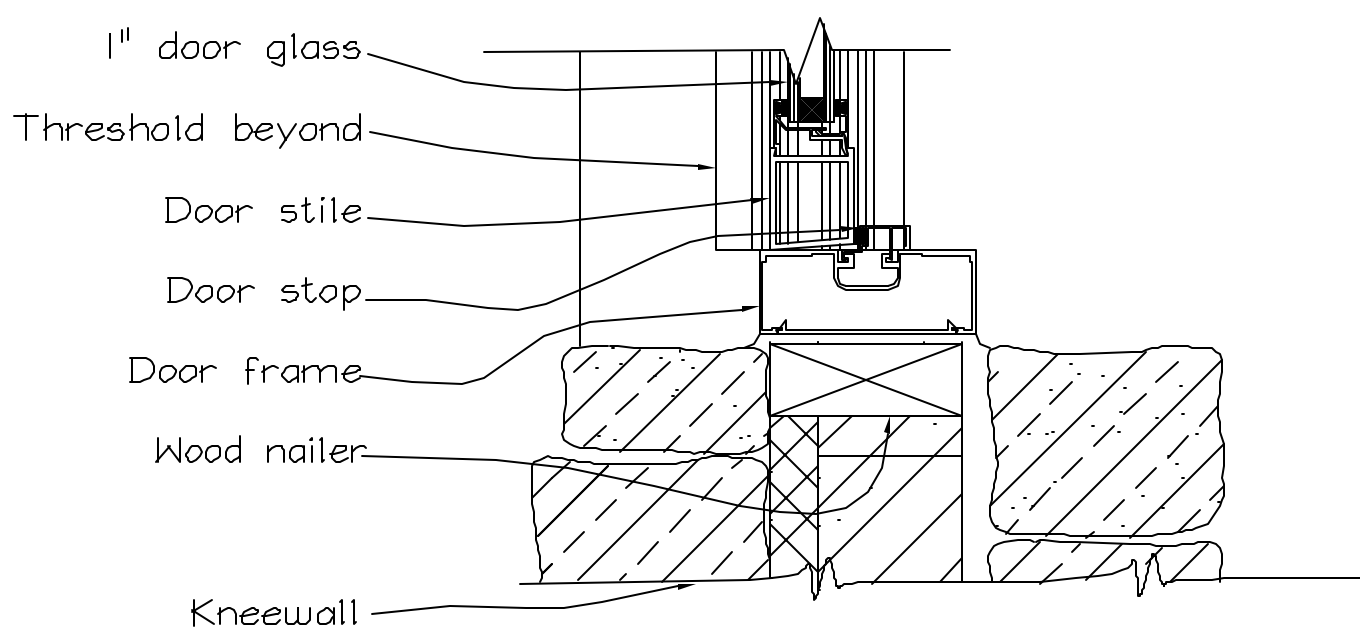
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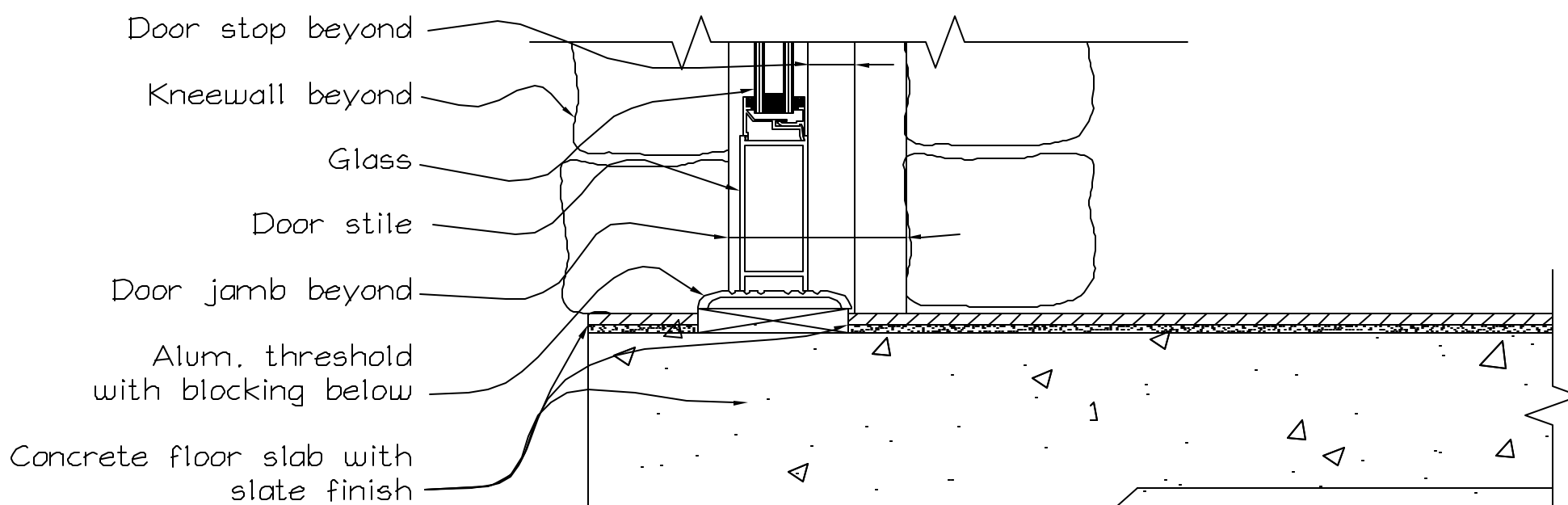




Ⓚ
Door Head
 Scale: 3" = 1'-0"



Ⓟ
Door Jamb
 Scale: 3" = 1'-0"

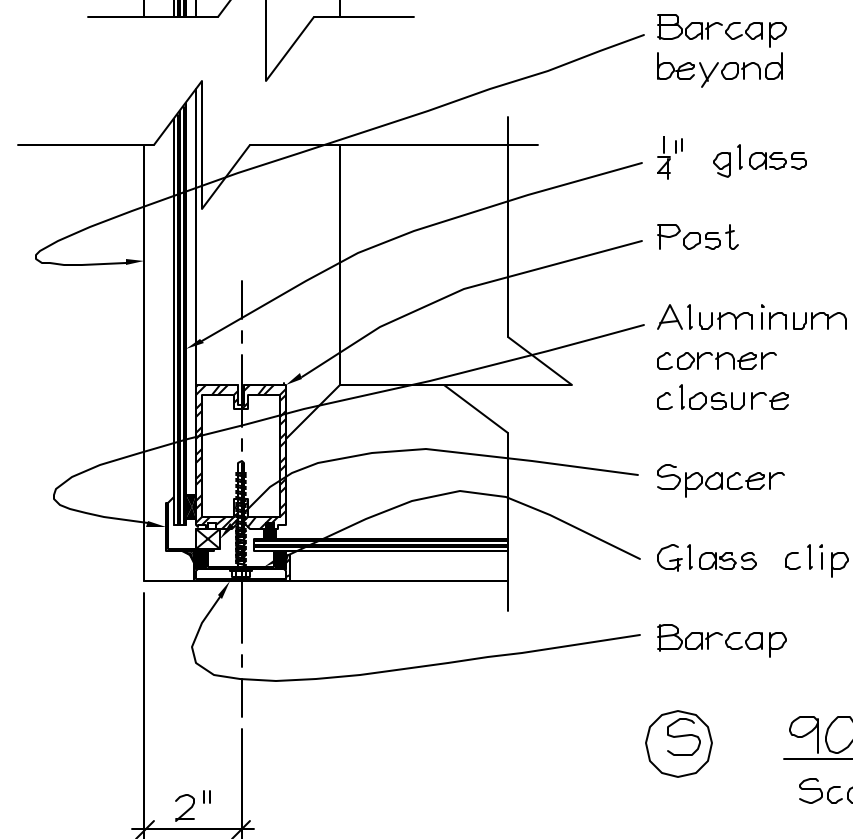
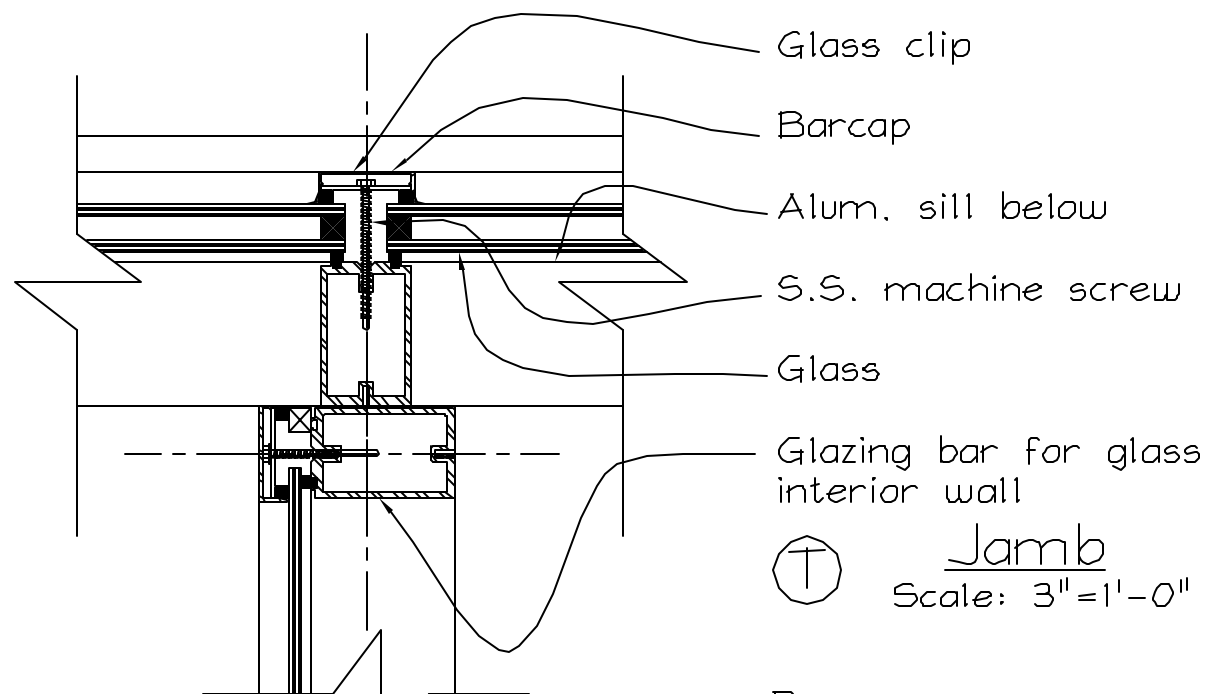


Ⓞ
Door Sill
 Scale: 3" = 1'-0"

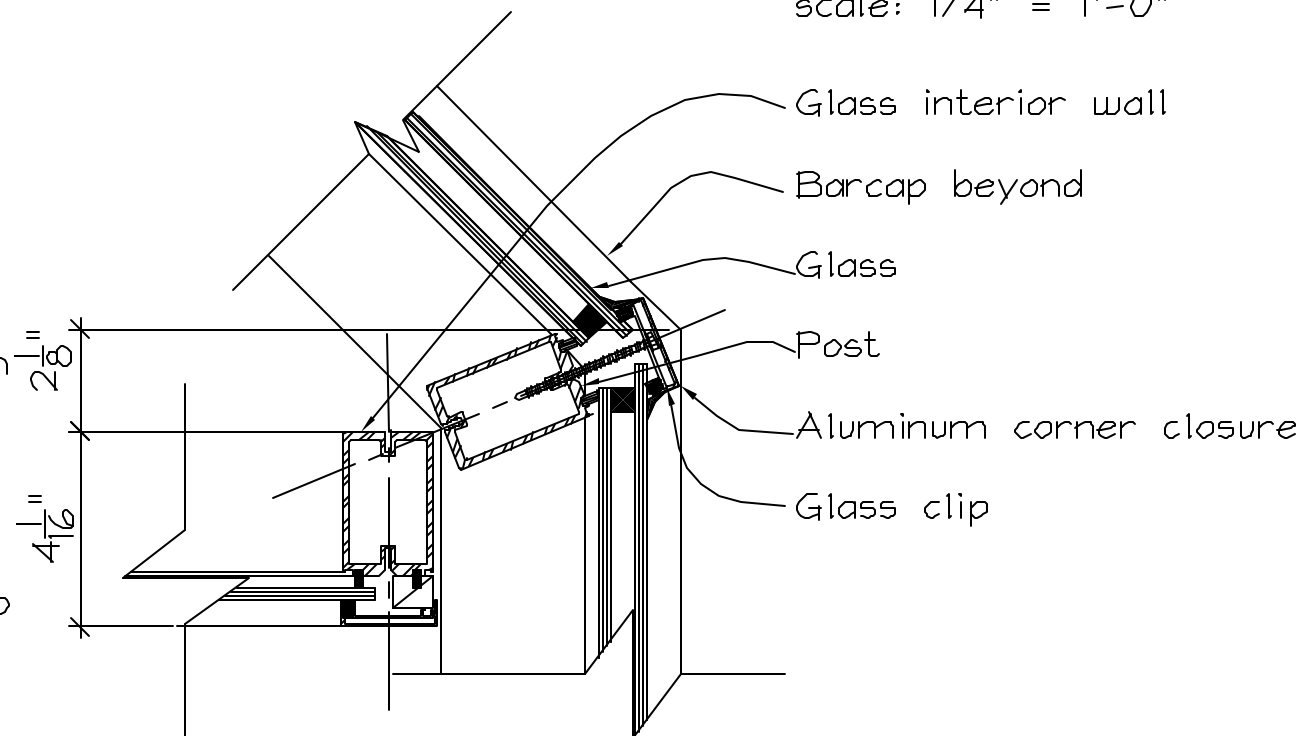
Job site address:
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Manufacturer/Installer:
 Ⓞ **WISCONSIN SOLAR DESIGN**

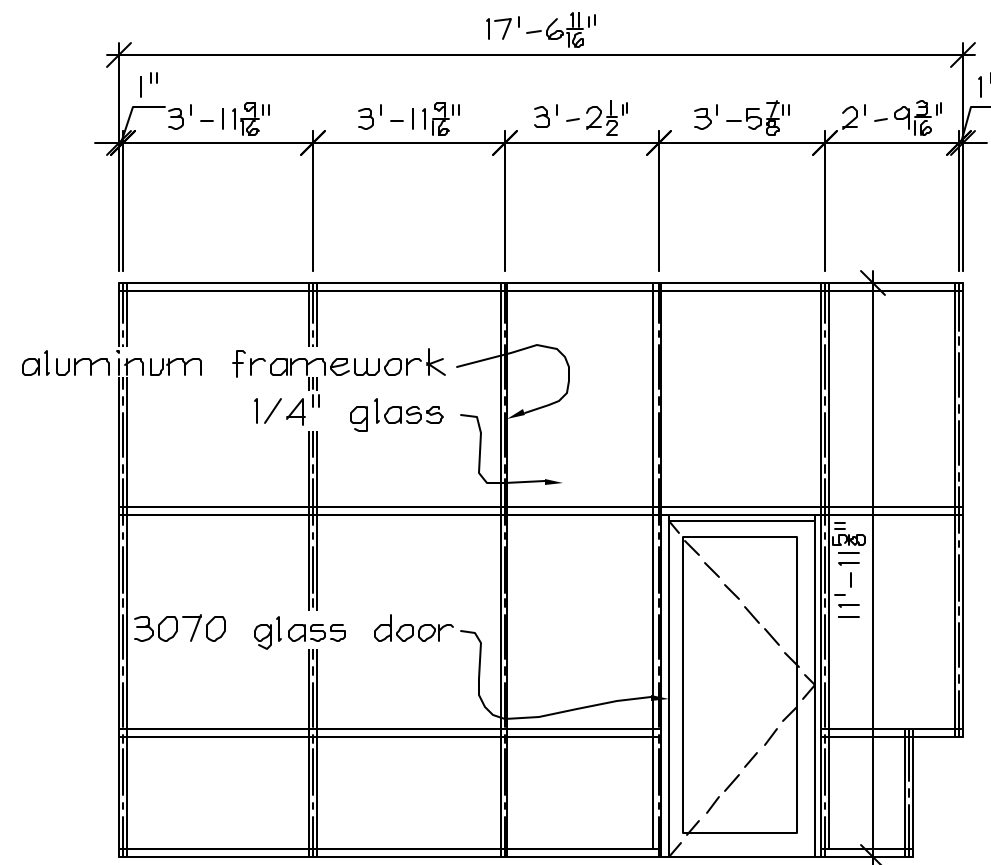
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 Connie Stampfl



⑤ 90° Corner
 Scale: 3"=1'-0"



⑥ 45° Corner
 Scale: 3"=1'-0"



② Elevation
 scale: 1/4" = 1'-0"

Manufacturer/Installer:



Job site address:

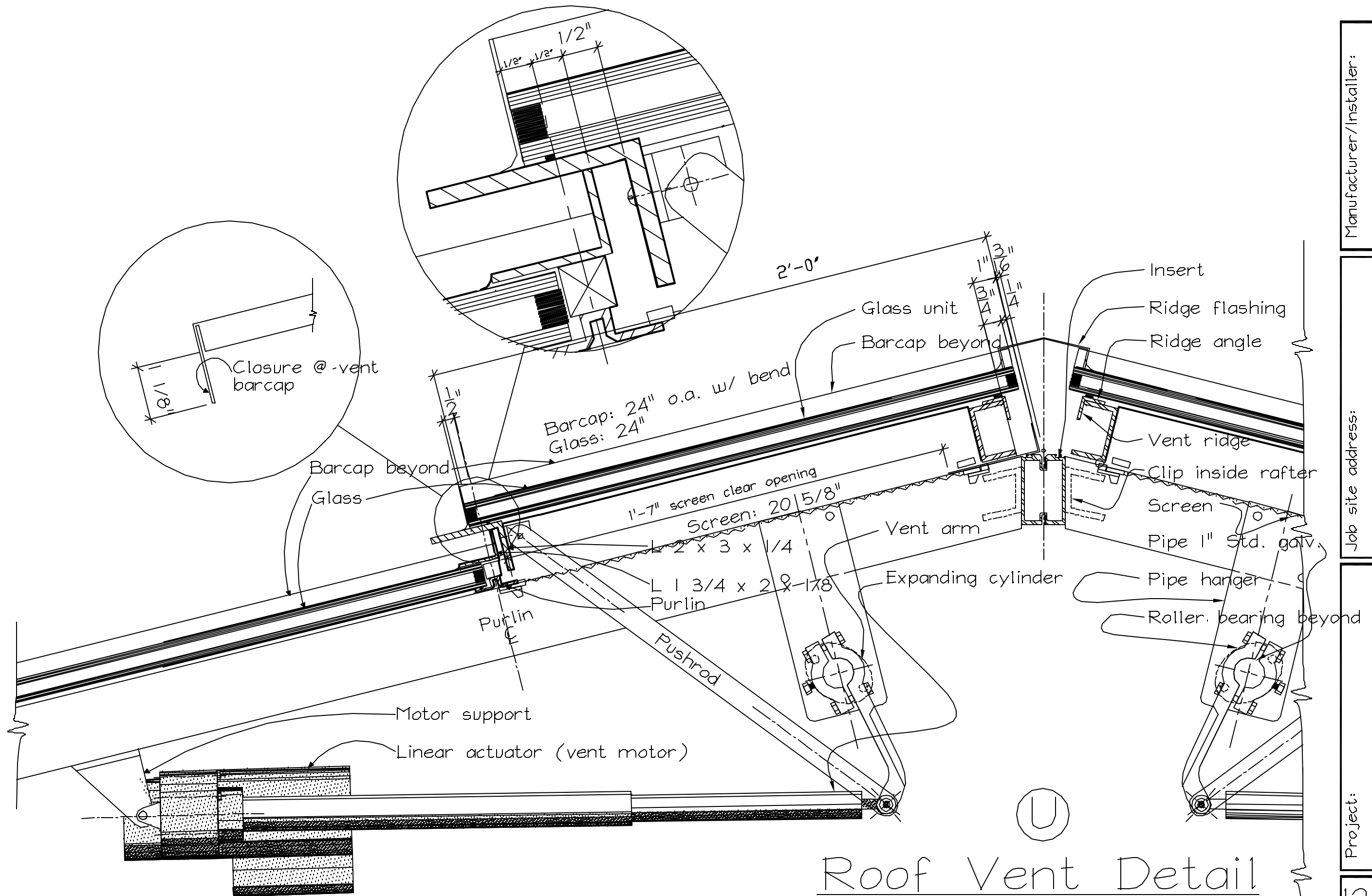
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Project:

Greenhouse for
 Drs. David and Connie Stampf1

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Roof Vent Detail

Scale: 3" = 1'-0"

Manufacturer/Installer:

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Bench Specifications

1. Benches are constructed entirely of solid IPE - *Tabebuia Serratifolia* - a South American hardwood that is 3 times harder than oak. Due to its hardness and natural ability to resist decay, IPE provides superior service when used for greenhouse benches, patios, piers/boat docks, outdoor furniture, walkways and decking.
2. IPE comes from forests that meet the international environmental standards of the Forest Stewardship Council (FSC) for sustainable growth and is sold as a certified product.
3. Benches are sanded and finished with teak oil. End grains are waxed.
4. The table height is 30".
5. Corner posts are constructed of 2 1/2" square (finished size), sides 5 1/2" x 1", tabletop 5 1/2" x 3/4".
6. Bench has feet consisting of 3/8" diameter levelling mounts with nylon glides and t-bolt receptors.
7. Benches are joined with stainless steel cross-dowel recessed corner connectors.
8. Two-shelf bench stand is as shown in the photo below with wet location lamps mounted below the shelves consisting of two-tube fluorescent fixtures with a sealed acrylic lens and reinforced fiberglass body.

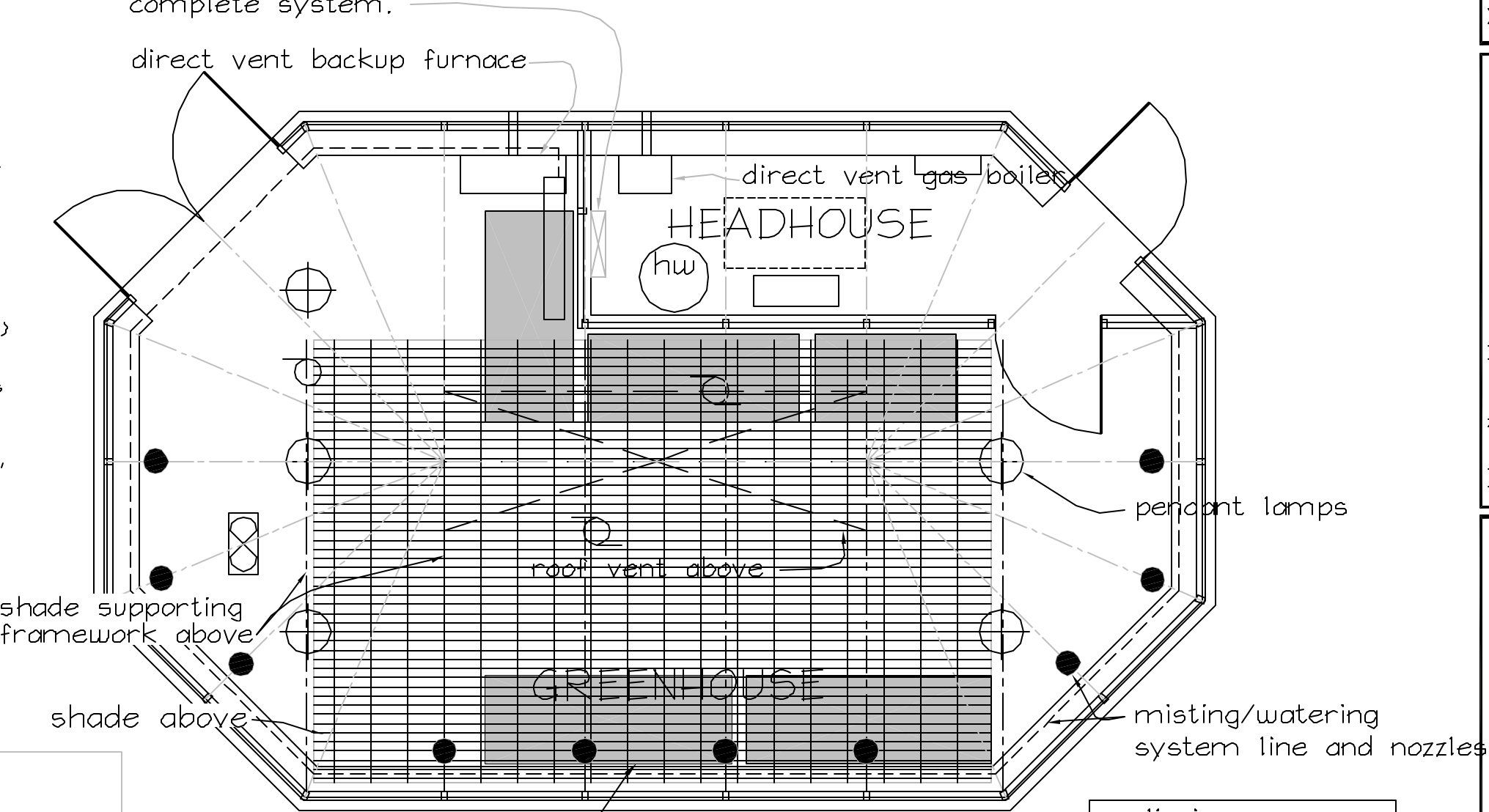


typical bench



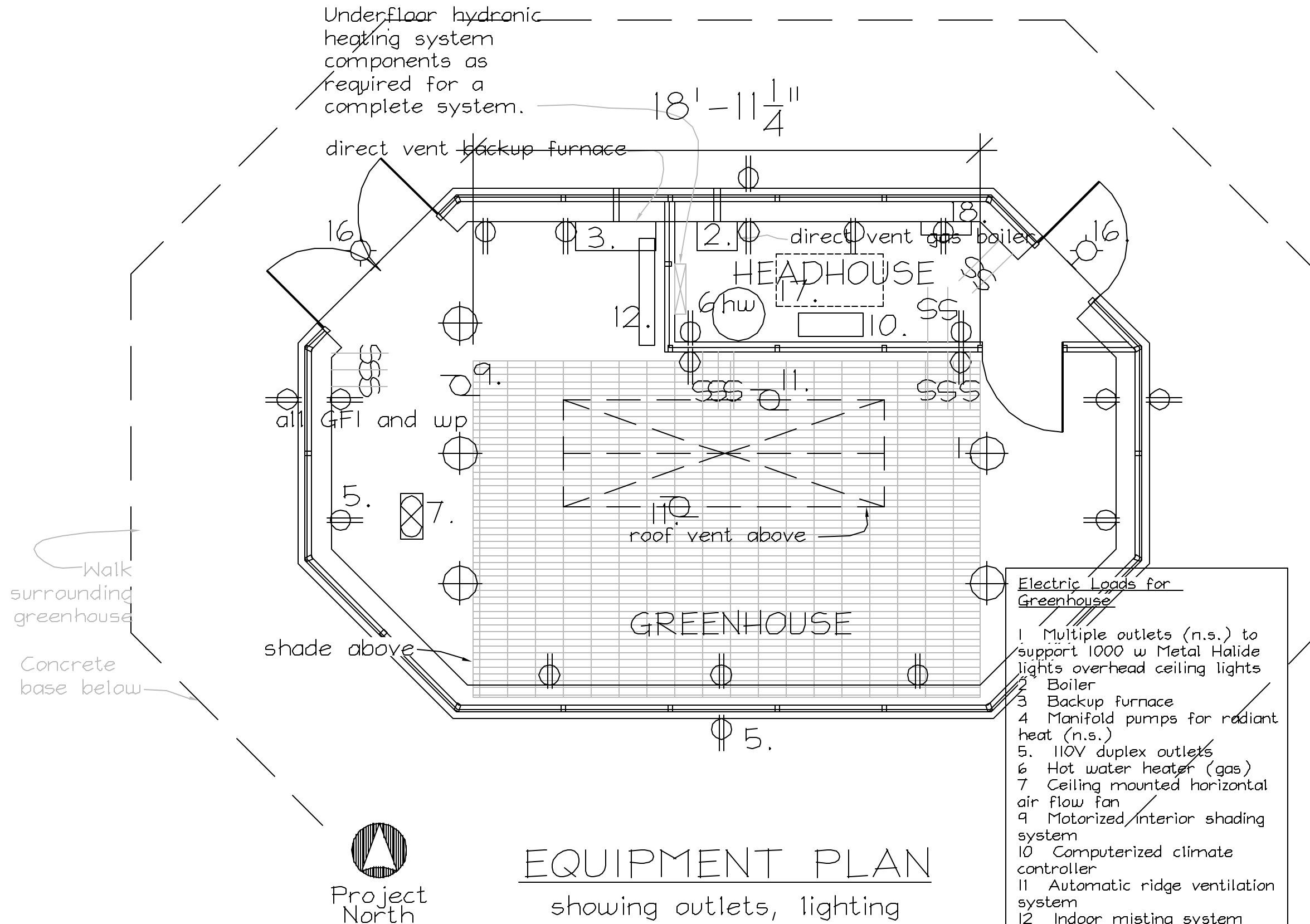
Underfloor hydronic heating system components as required for a complete system.

direct vent backup furnace



GREENHOUSE BENCH
AND SHADING PLAN

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



preliminary: locations of equipment shown subject to change - not for construction use

EQUIPMENT PLAN showing outlets, lighting and selected equipment 1/4" = 1'-0"

- Electric Loads for Greenhouse
- 1 Multiple outlets (n.s.) to support 1000 w Metal Halide lights overhead ceiling lights
 - 2 Boiler
 - 3 Backup furnace
 - 4 Manifold pumps for radiant heat (n.s.)
 - 5 110V duplex outlets
 - 6 Hot water heater (gas)
 - 7 Ceiling mounted horizontal air flow fan
 - 9 Motorized interior shading system
 - 10 Computerized climate controller
 - 11 Automatic ridge ventilation system
 - 12 Indoor misting system
 - 13 Outdoor sprinkler system (n.s.)
 - 14 Landscape lighting lines to north and south (n.s.)
 - 15 Well pump (n.s.)
 - 16 Door light
 - 17 4 tube fluorescent
 - 18 Service panel