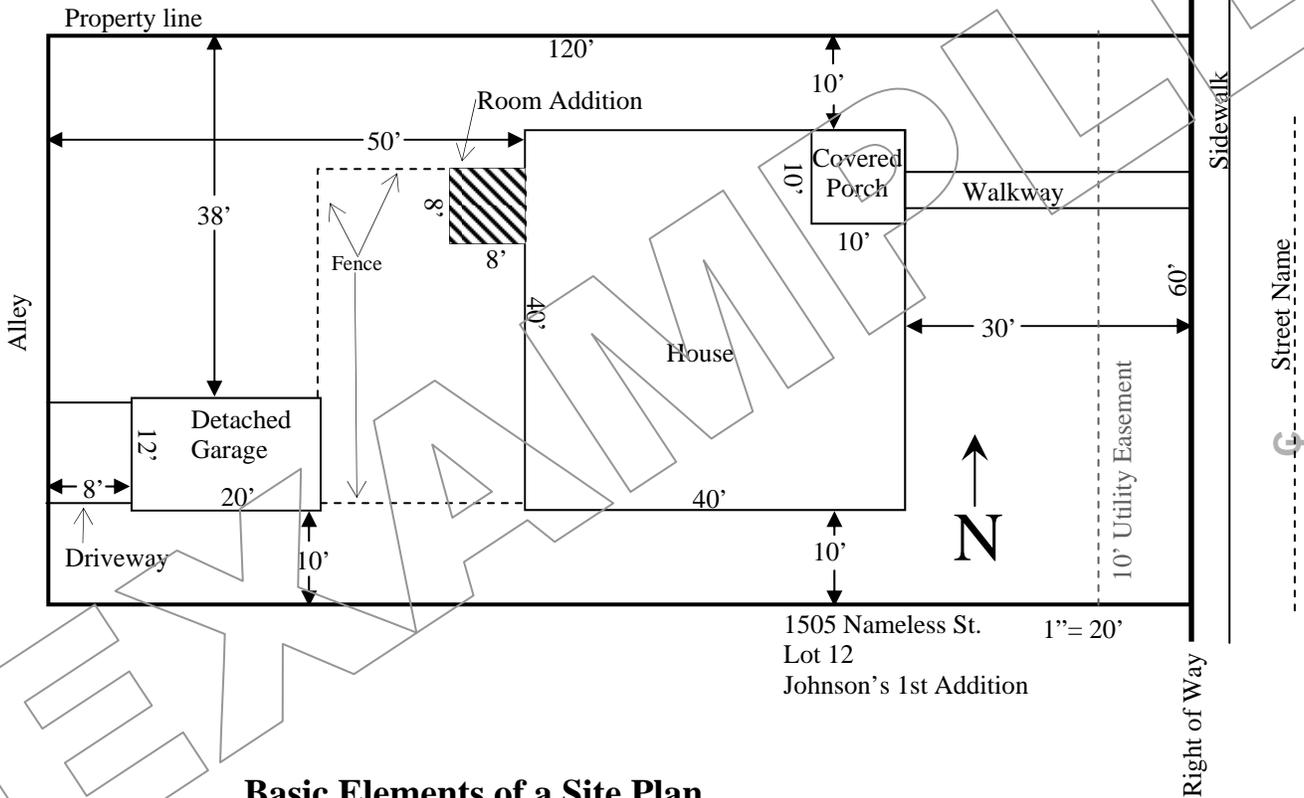


Example Plans: Residential Addition

(Not For Construction)

Site Plan



Basic Elements of a Site Plan

1. North Arrow
2. Scale that plan is drawn to
3. Address of the property
4. Lot/Parcel Number
5. Property boundaries with dimensions
6. Locations of any easements, right of ways, & setbacks
7. Centerline of adjoining streets
8. Outline of all improvements and structures (existing & proposed) with dimensions and the distances to nearest boundaries. Examples include: septic systems, fences, pools, wells, decks, driveways, sidewalks, sheds, parking areas, water features, and utility locations.

Note:

Sidewalks, utility poles, alleys, fences, internet maps, and other features are not reliable means of determining the location of property boundaries. Please reference your property deed, plat map, or prior survey of the property.

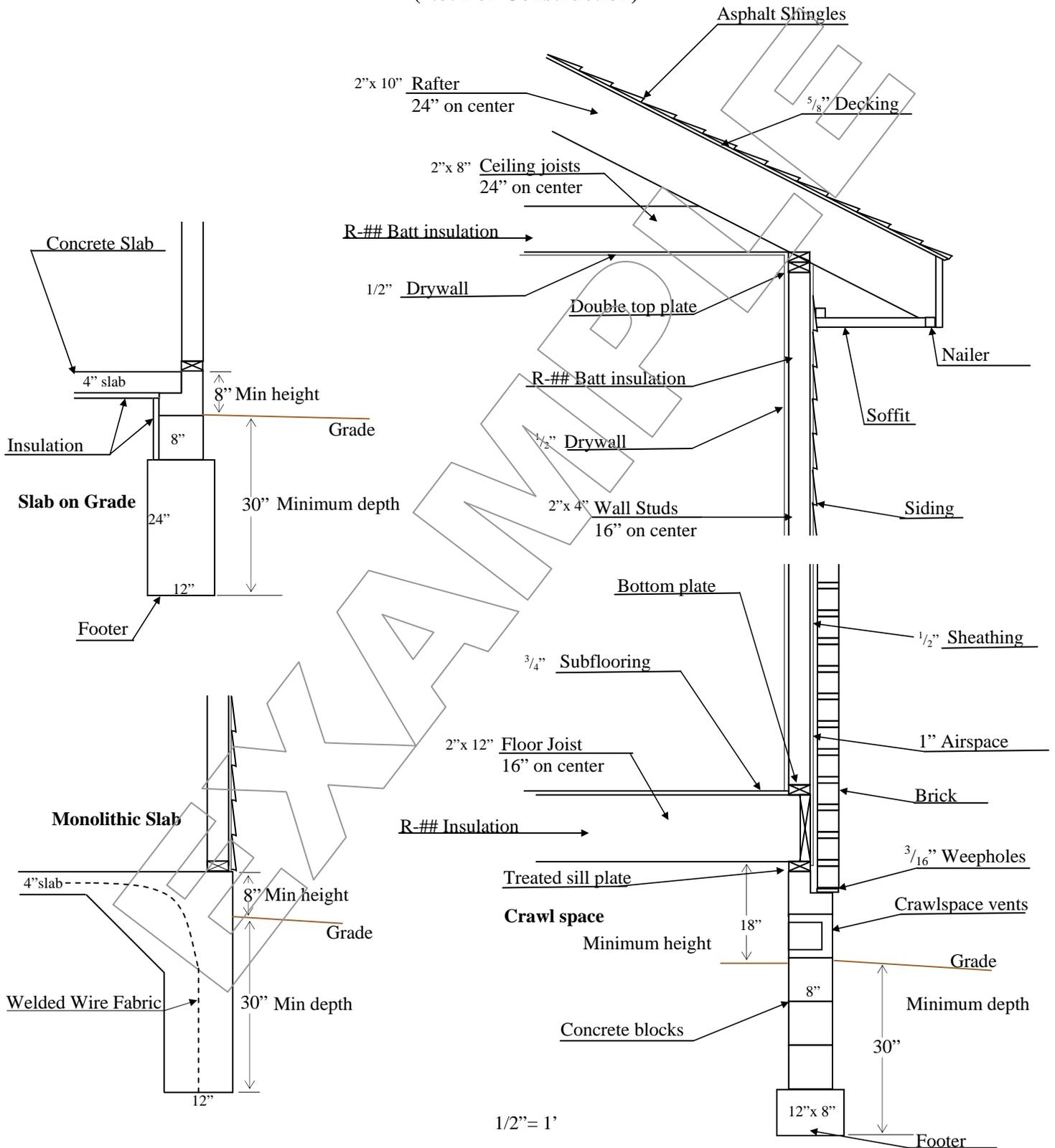
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Example Wall Section (Not For Construction)



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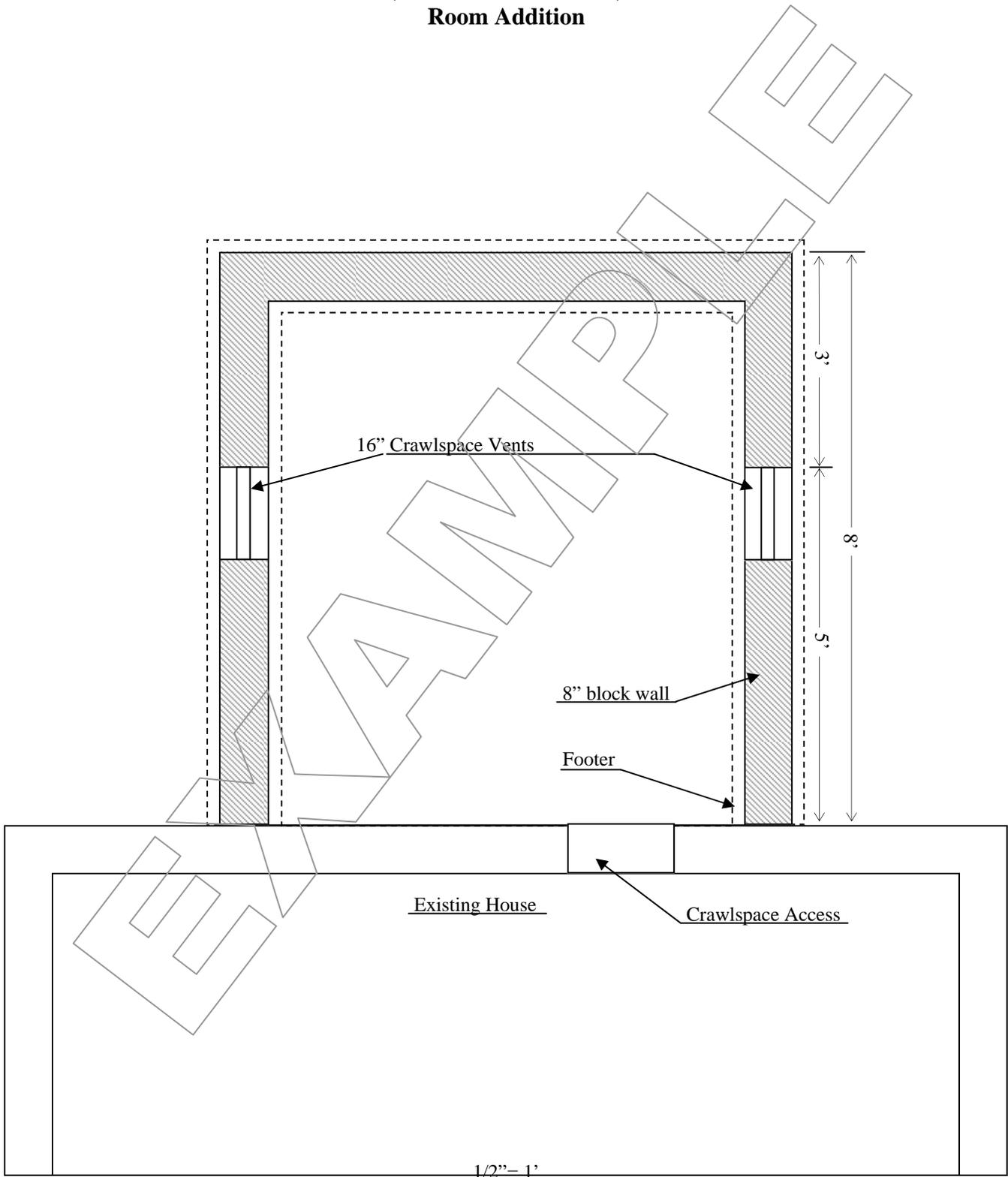
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Example Foundation Plan

(Not For Construction)
Room Addition



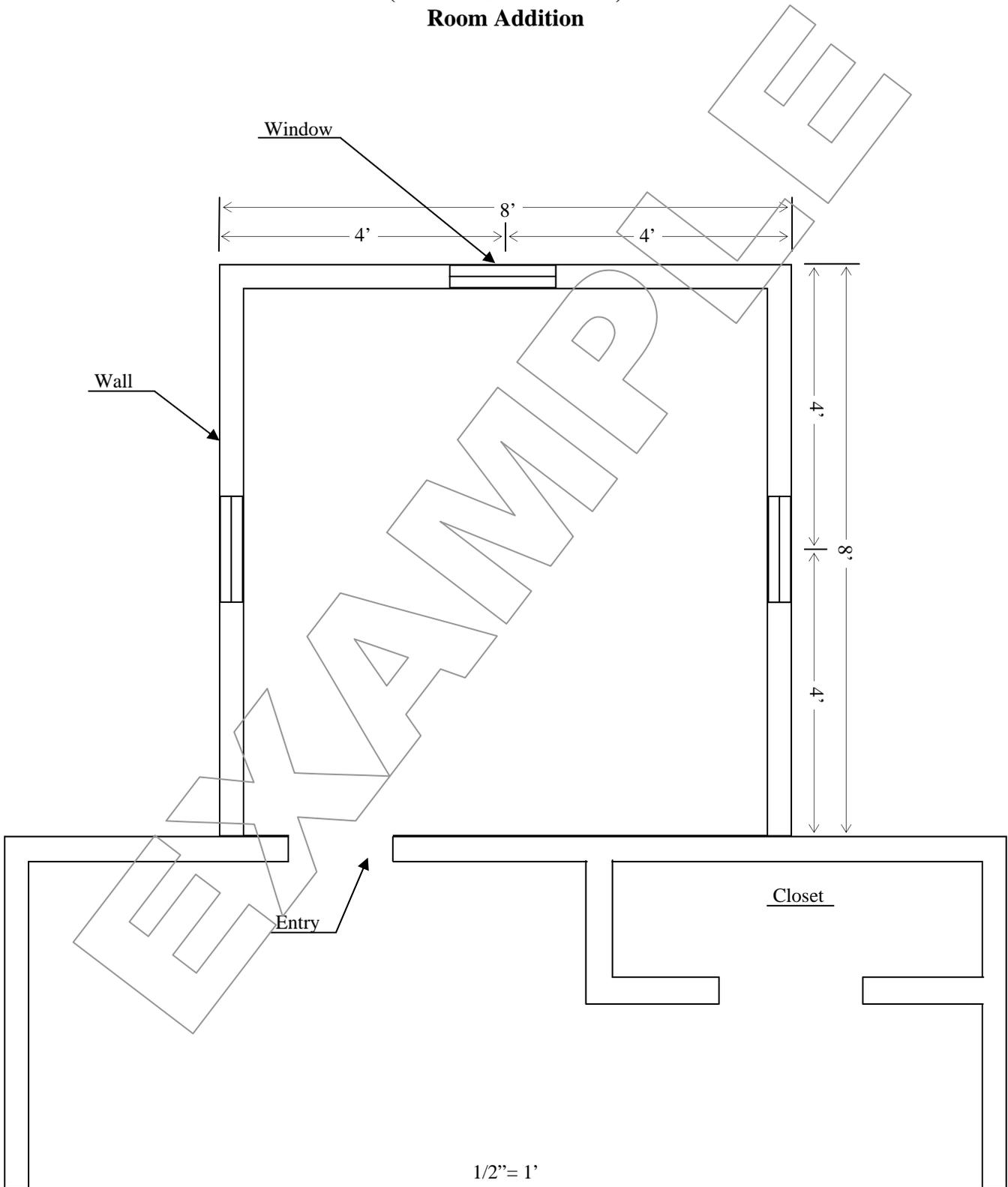
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Example
1st Floor Plan
(Not For Construction)
Room Addition



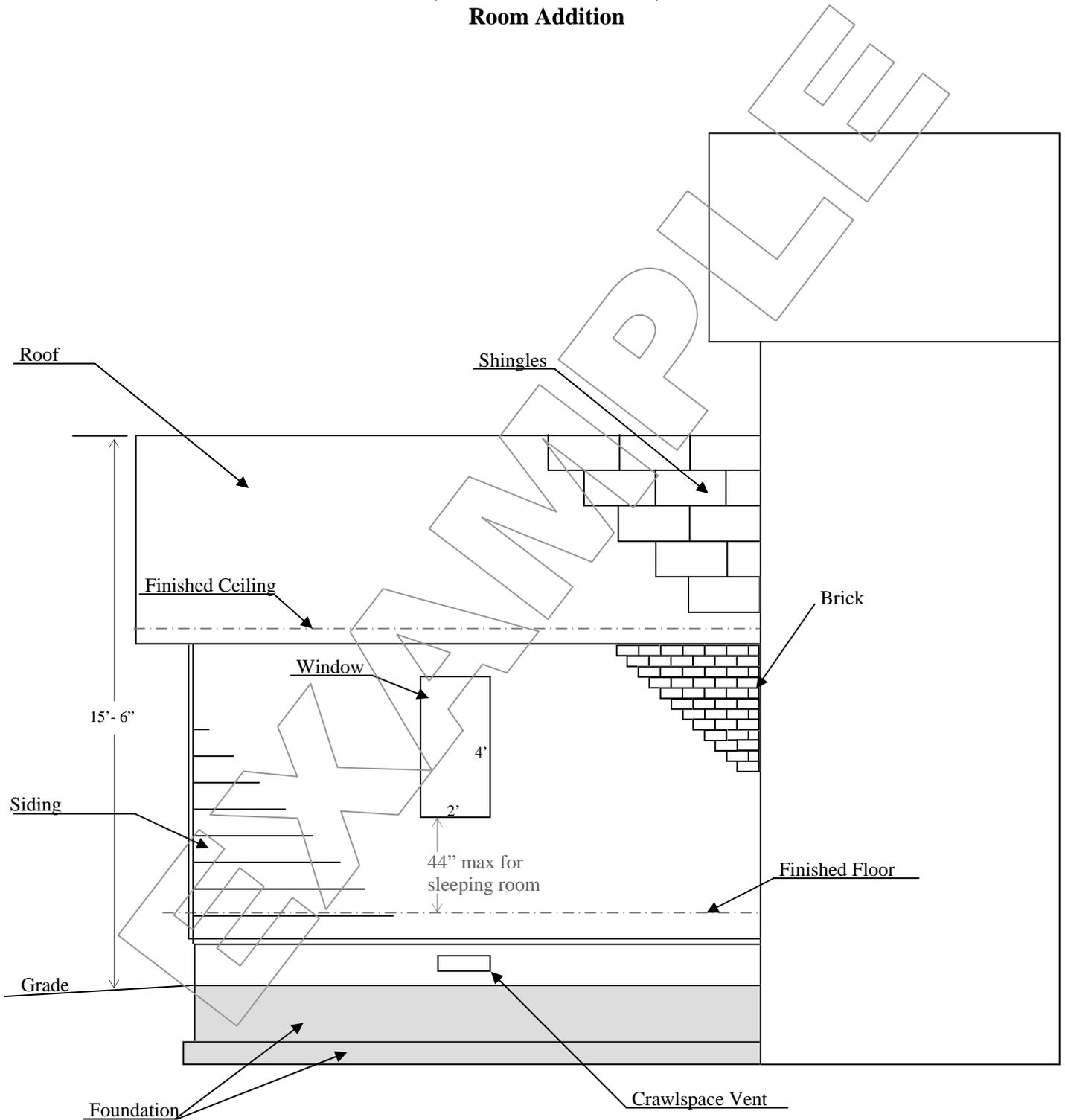
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Example Side View/Elevation (Not For Construction) Room Addition



1/4" = 1'

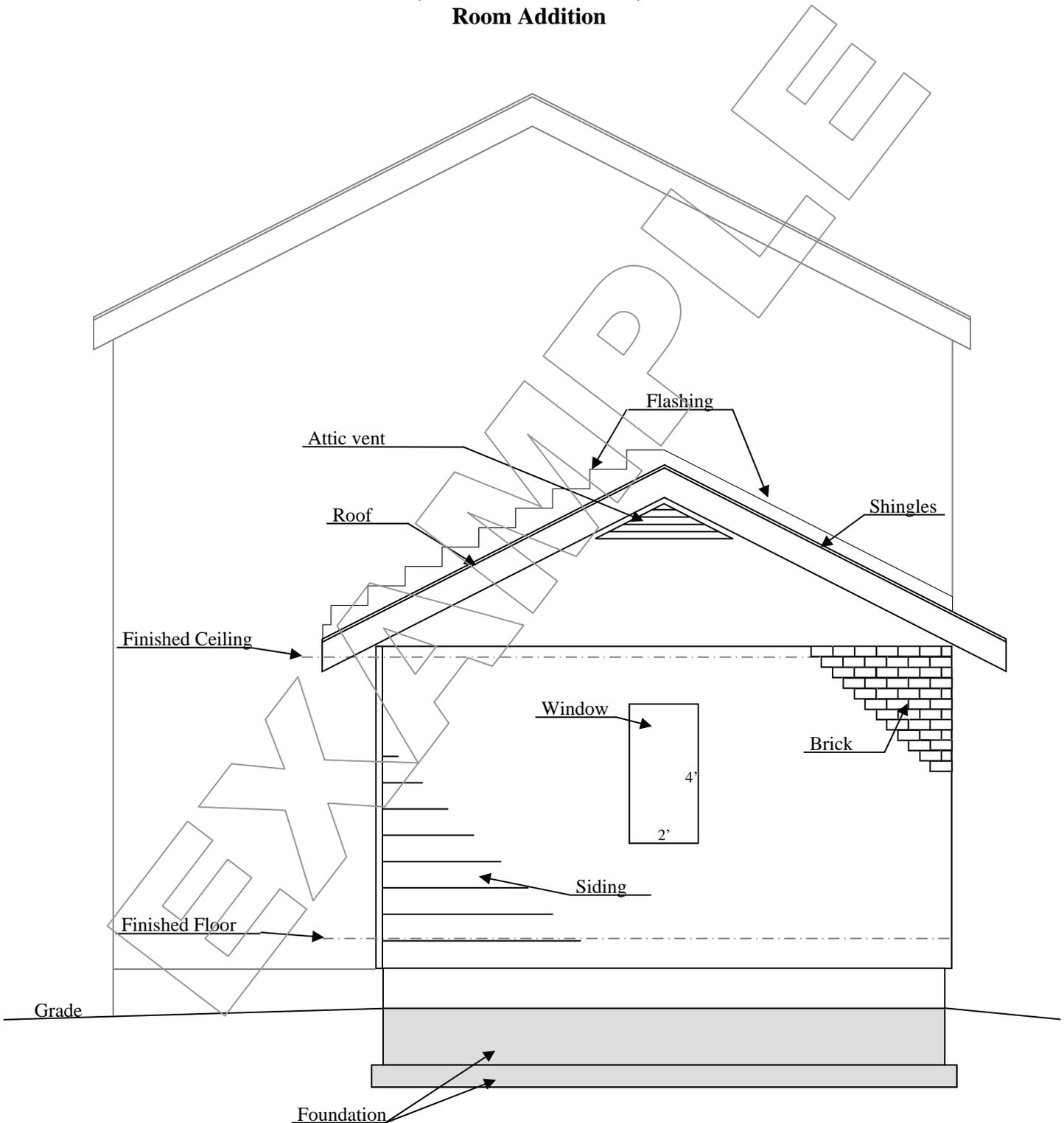
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Example Rear View/Elevation (Not For Construction) Room Addition



1/4" = 1'

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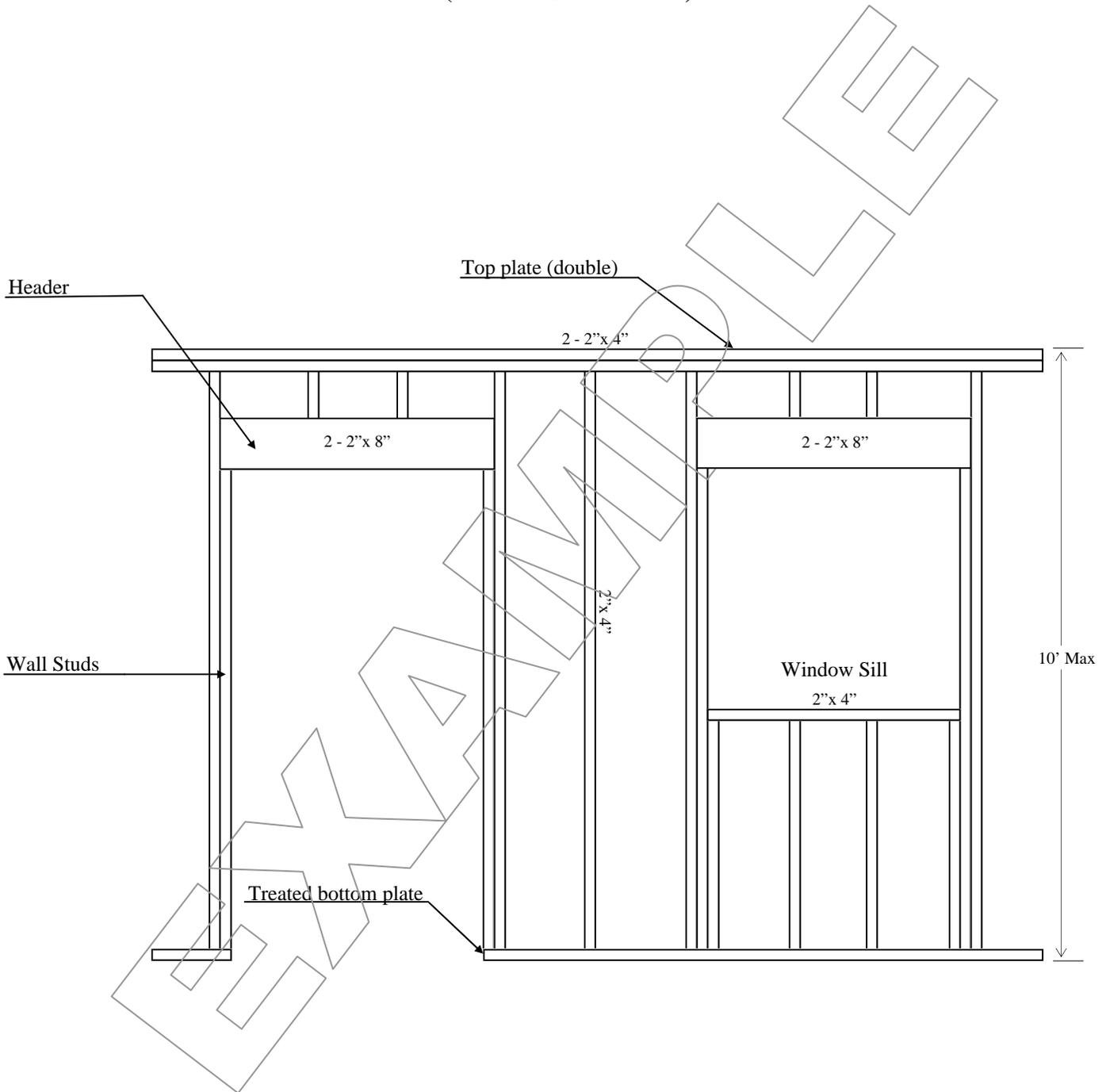
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Example Window & Door Framing Detail

(Not For Construction)



1/2" = 1'

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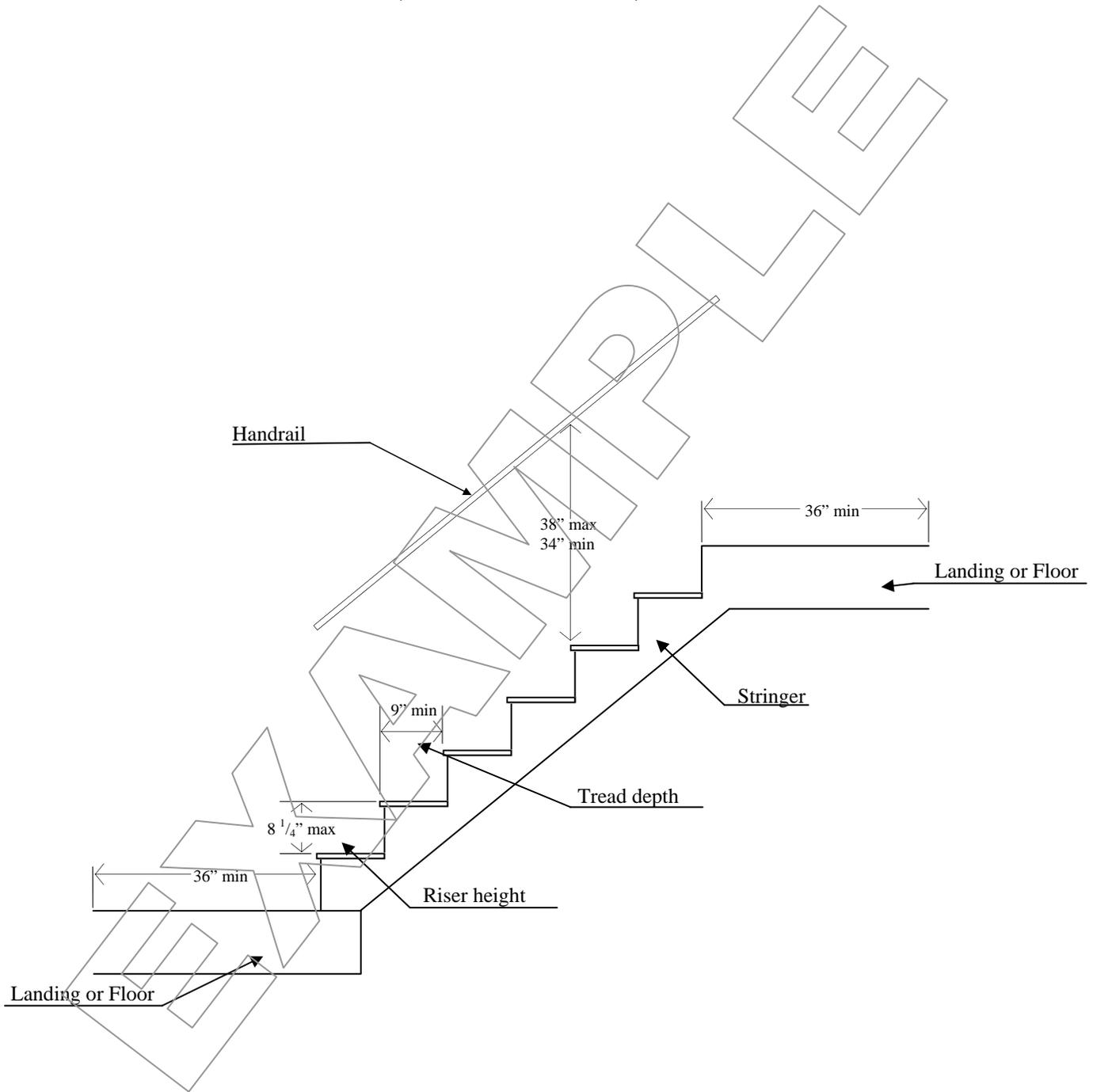
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Example Stair Detail

(Not For Construction)



1/2" = 1'

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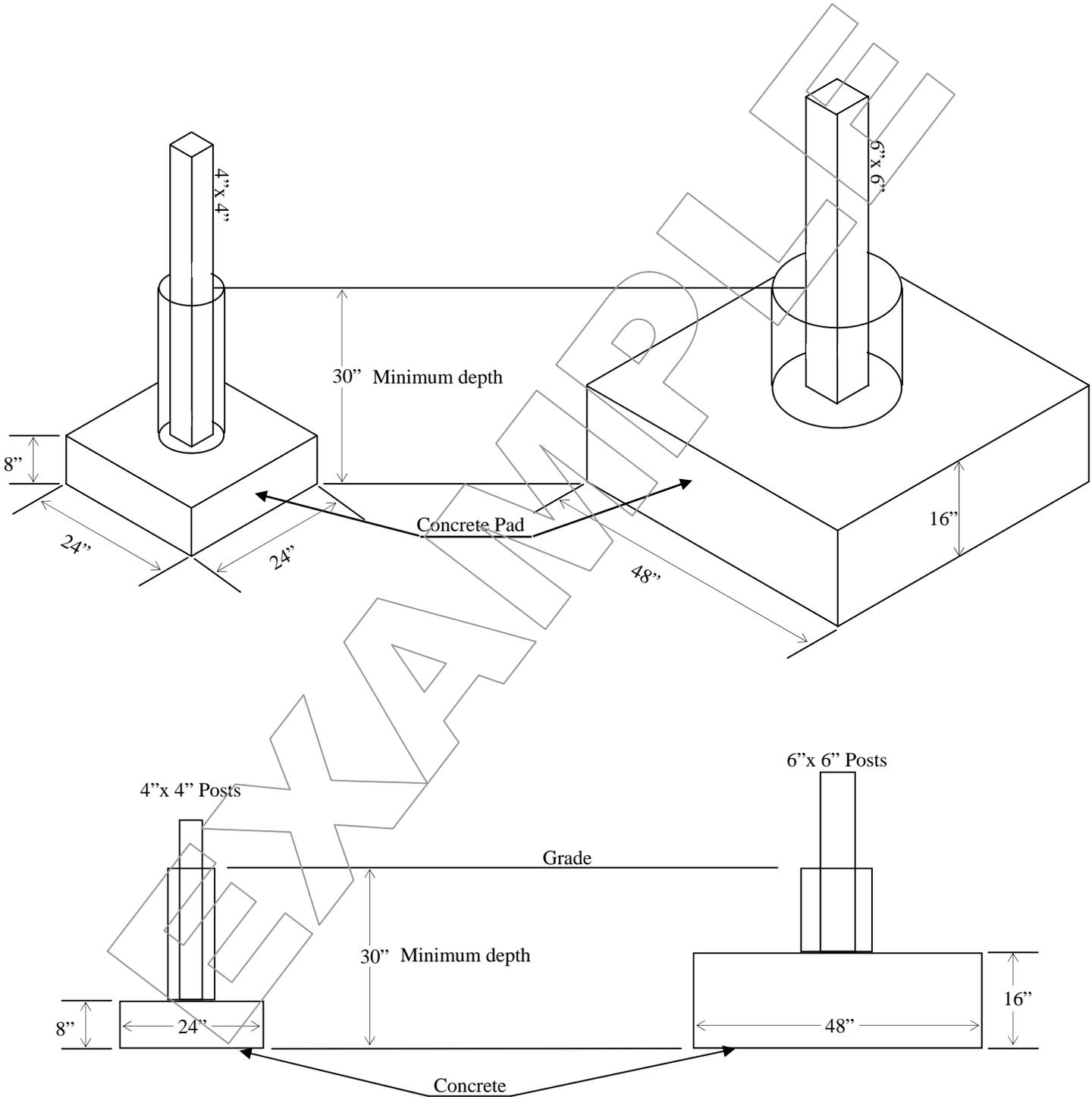
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Example

Residential Post & Beam Footing Detail

(Not For Construction)



1/2" = 1'

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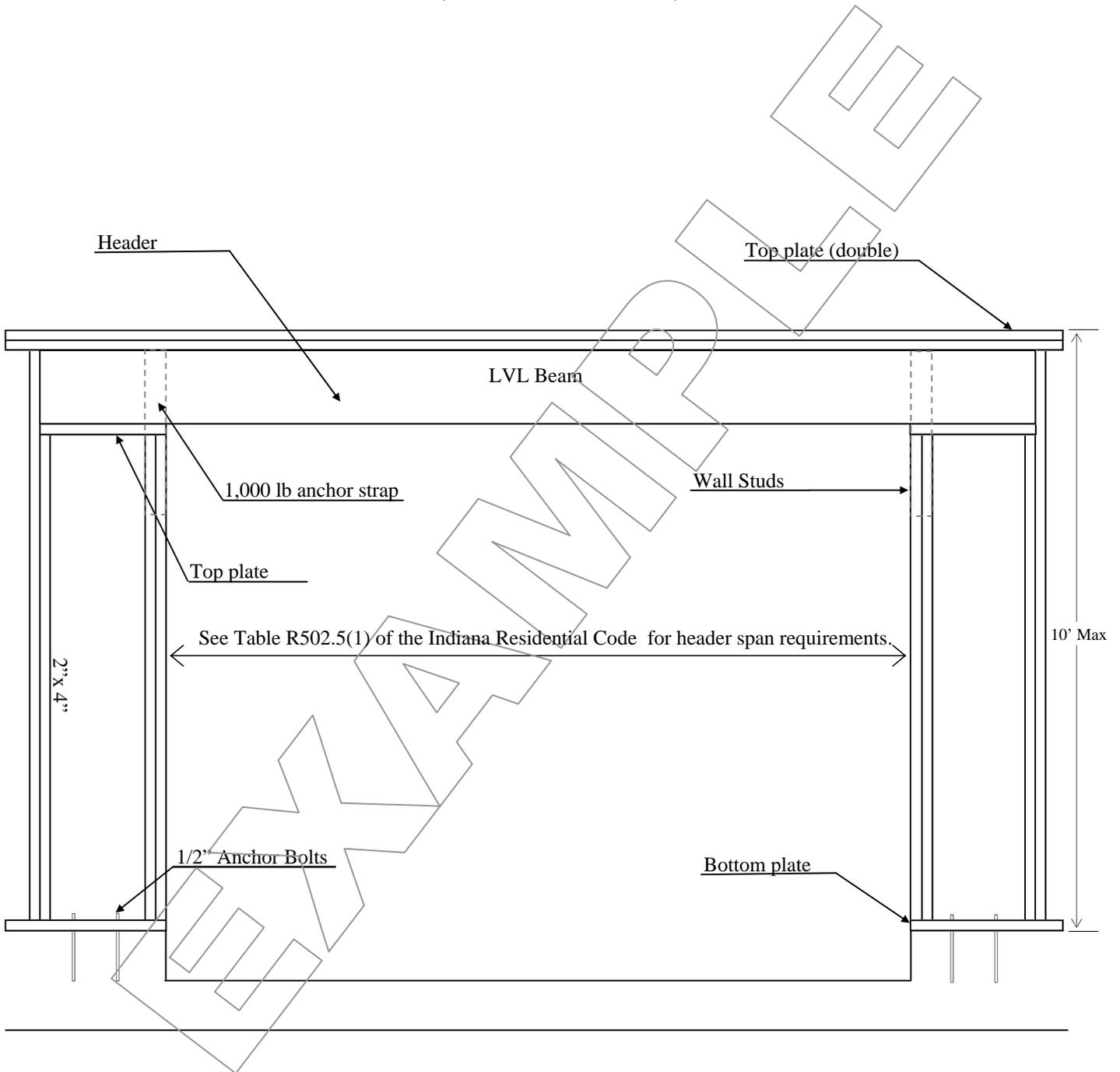
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Example Garage Door Framing Detail

(Not For Construction)



Note:

1. Laminated Veneer Lumber is required to be designed and tested according to approved standards. The amount of supporting jack studs and attachment will be dependant on that approved design.
2. Please refer to table R502.5 for applications where standard lumber is suitable.

1/2" = 1'

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Example Truss Diagram (Not For Construction)

Job SV2247	Truss A	Truss Type MOD. QUEEN	Qty 11	Ply 1	Morgan	E3450871
Truss Manufacturing Co., Westfield, Indiana 46074			Job Reference (optional) 6.200 s Oct 18 2005 Metal Industries, Inc. Tue Aug 22 15:35:02 2006 Page 1			

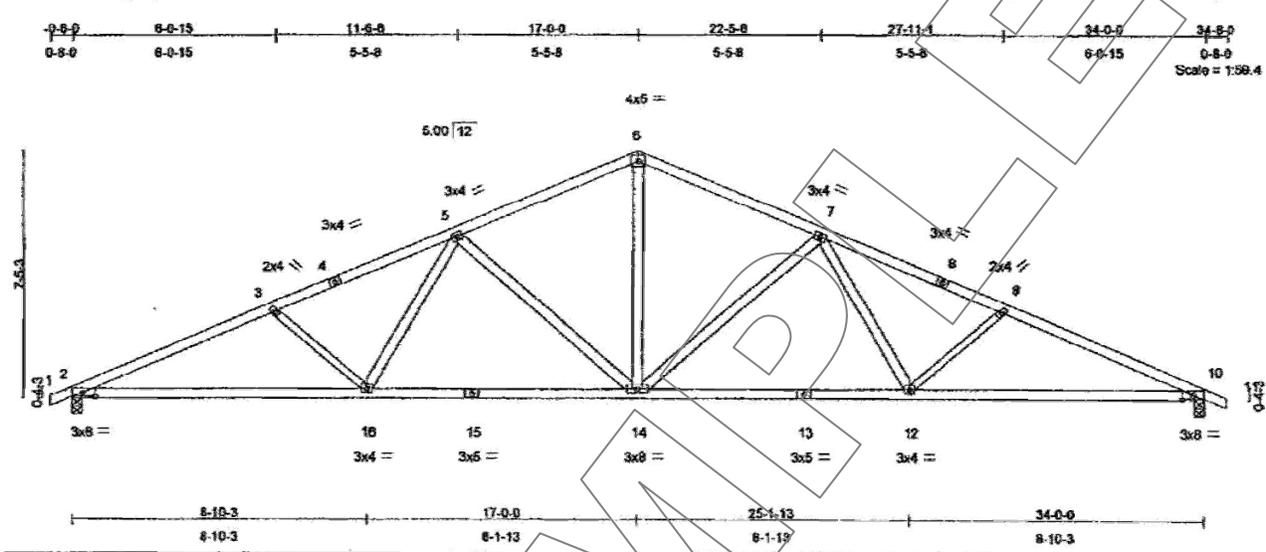


Plate Offsets (X,Y): [2:0-4-4,0-1-8], [10:0-4-4,0-1-8]							
LOADING (psf)	SPACING	CSI	DEFL	in (loc)	t/defl	L/d	PLATES
TCLL 20.0	Plates Increase 1.15	TC 0.48	Vert(LL) -0.17	14	>999	240	MT20
TCDL 10.0	Lumber Increase 1.15	BC 0.80	Vert(TL) -0.51	10-12	>796	180	GRIP
BCLL 0.0	Rep Stress Incr YES	WB 0.74	Herz(TL) 0.16	10	n/a	n/a	197/144
BCDL 10.0	Code IRC2003/TP12002	(Matrix)					Weight: 125 lb

LUMBER
 TOP CHORD 2 X 4 SPF No.1 or SPF No.2
 BOT CHORD 2 X 4 SPF No.1 or SPF No.2
 WEBS 2 X 4 SPF Stud "Except"
 3-16 2 X 3 SPF No.3, 9-12 2 X 3 SPF No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 2-11-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=1362/0-3-8, 10=1362/0-3-8
 Max Horz 2=73(load case 8)
 Max Uplift 2=95(load case 7), 10=95(load case 8)
 Max Grav 2=1397(load case 2), 10=1397(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/17, 2-3=2874/403, 3-4=2802/338, 4-5=2535/361, 5-6=1824/319, 6-7=1824/319, 7-8=2535/361,
 8-9=2602/338, 9-10=2874/403, 10-11=0/17
 BOT CHORD 2-16=300/2595, 15-16=183/2112, 14-15=183/2112, 13-14=183/2112, 12-13=183/2112, 10-12=300/2595
 WEBS 3-16=344/155, 5-16=0/505, 5-14=667/158, 6-14=115/1017, 7-14=667/158, 7-12=0/505, 9-12=344/155

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-02; 90mph; h=23ft; TCDF=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 - 3) TCLL: ASCE 7-02; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=19.0 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.1; IBC 1607.11.2 minimum roof live load applied where required.
 - 4) This truss has been checked for uniform snow load only, except as noted.
 - 5) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2 and 95 lb uplift at joint 10.
 - 9) This truss is designed in accordance with the 2003 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 23, 2006

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Common Mistakes / Insufficiencies

- Using incorrect building standards - Indiana Residential Code
(2003 International Residential Code with the 2005 Indiana Amendments)
- Smoke detectors not being placed correctly (R313)
- Incorrect crawlspace venting (R408.1)
Regulation published in Indiana Register October 2007
- Insufficient emergency escapes (310)
 - Windows for sleeping rooms (R310.1)
 - Window wells (R310.2)
 - Ladders & steps (R310.2.1)
- Incorrect garage door headers (R602.10.5(2))
- Not having engineered Truss diagrams available (R106.1)
- Not providing the design specifications for TJI's or LVL's
(Truss I-Joists & Laminated Veneer Lumber members)
- Stairs not being built to correct standards (R311.5)
- Rafters/joists insufficient for spans
(rafters R802.5, ceiling joists R802.4, floor joists R502.3)
- Headers insufficient for span (R502.5)
- Not having plans on site available for review
- Proposed plans not drawn to scale
- Not filling out the Certificate of Completion & Compliance and returning upon completion of the project.

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