

PROPOSED PROJECT FOR:

**DK HOMES, LLC**

PROJECT DATA

PROJECT ADDRESS: PARCEL 1, SE RAYMOND AVE, PORTLAND, OR  
 ENERGY CODE DATA:  
 ALL CONSTRUCTION SHALL CONFORM TO 2011 OREGON RESIDENTIAL SPECIALTY CODE AND 2010 OREGON ENERGY EFFICIENCY SPECIALTY CODE.

TABLE N1101.1(1)  
 PRESCRIPTIVE ENVELOPE REQUIREMENTS

BUILDING COMPONENT	REQUIRED PERFORMANCE	EQUIV. VALUE
WALL INSULATION-ABOVE GRADE	U-0.060	R-21
WALL INSULATION-BELOW GRADE	F-0.565	R-15
FLAT CEILING	U-0.031	R-38
VAULTED CEILING	U-0.042	R-38
UNDERFLOORS	U-0.028	R-30
SLAB EDGE PERIMETER	F-0.520	R-15
HEATED SLAB INTERIOR	N/A	R-10
WINDOWS	U-0.35	U-0.35
WINDOW AREA LIMITATION	N/A	N/A
SKYLIGHTS	U-0.60	U-0.60
EXTERIOR DOORS	U-0.20	U-0.20
EXTERIOR DOORS W/ MORE THAN 2.5 SF. GLAZING	U-0.40	U-0.40
FORCED AIR DUCT INSULATION	N/A	R-8

NOTES: REF. TO GENERAL NOTES FOR FOOTNOTES

TABLE N1101.1(2)  
 ADDITIONAL MEASURES

ENVELOPE ENHANCEMENT MEASURE:  
 MEASURE: 2  
 HIGH EFFICIENCY ENVELOPE:  
 EXTERIOR WALLS - U-0.058/R-21 INTERMEDIATE FRAMING, AND  
 AVAULTED CEILINGS - U-0.33/R-30, AND  
 FLAT CEILING - U-0.025/R-49, AND 4\*  
 FRAMED FLOORS - U-0.025/R-38, AND  
 WINDOWS - U-0.30, AND  
 DOORS - ALL DOORS U-0.20, OR  
 ADDITIONAL 15% OF PERMANENTLY INSTALLED LIGHTING FIXTURES AS  
 HIGH-EFFICACY LAMPS OR CONSERVATION MEASURE D AND E

NOTES: REF. TO GENERAL NOTES FOR FOOTNOTES

CONSERVATION MEASURE:  
 MEASURE: A

HIGH EFFICIENCY HVAC SYSTEM:  
 -GAS-FIRED FURNACE OR BOILER WITH MINIMUM AFUE OF 90% A,  
 OR AIR-SOURCE HEAT PUMP WITH MINIMUM HSPF OF 8.5 OR  
 -CLOSED-LOOP GROUND SOURCE HEAT PUMP WITH MINIMUM COP OF 3.0

FLOOR PLAN INFORMATION:

FIRST FLOOR LIVING AREA:	860 SF
2ND FLOOR LIVING AREA:	1,120 SF
GARAGE:	248 SF
<b>TOTAL LIVING AREA:</b>	<b>1,980 SF</b>

GENERAL NOTES

- GENERAL CONTRACTOR SHALL REVIEW ALL SITE CONDITIONS AND CONSTRUCTION DOCUMENTS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES IN THE PROPOSED WORK TO THE CONCEPT DESIGN & ASSOCIATES, OWNER/BUILDER IMMEDIATELY. PROCEED ONLY AFTER WRITTEN CLARIFICATIONS ARE SUBMITTED.
- PROVIDE HVAC TO MEET BLDG. & MECH. CODES. HVAC SYSTEM DESIGN, DRAWINGS, CALCULATIONS AND PERMIT TO BE PROVIDED BY LICENSED MECHANICAL CONTRACTOR.
- PROVIDE ELECTRICAL WIRING, OUTLETS AND DEVICES TO MEET BLDG. & ELEC. CODES. ELECTRICAL DESIGN, DRAWINGS, CALCULATIONS AND PERMIT TO BE PROVIDED BY LICENSED ELECTRICAL CONTRACTOR.
- DRAWINGS, CALCULATIONS AND PERMIT TO BE PROVIDED BY LICENSED PLUMBING CONTRACTOR.
- THIS IS PERMIT SET FOR ONE (1) SITE ADDRESS ABOVE ONLY. A COPY OF THESE CONSTRUCTION DRAWING FOR ANY FORM OF PRODUCTION WITHOUT AUTHORIZED BY CONCEPT DESIGN & ASSOCIATES IS PROHIBITIT

General Notes & Supplemental Information  
 The attached 8 1/2 x 11 sheets are part of this plan approval. Plans are considered null and void without this information attached to the approved set of plans.

SEPARATE SEWER CONNECTION PERMIT REQUIRED. CONNECTION IS IN THE PUBLIC RIGHT OF WAY.

BES STORMWATER FACILITY INSPECTION REQUIRED AT TIME OF CONSTRUCTION. SEE GREEN BES INSPECTION CARD. To schedule, contact the automated inspection request (IVR) system at 503-823-7000 and request inspection #487 BES Onsite Stormwater Facility Eval - OR you may contact our office directly at 503-823-2059

BDS COMBINATION INSPECTOR APPROVAL REQUIRED FOR DOWNSPOUTS AND PRIVATE STORMWATER PIPING OUTSIDE OF STORM FACILITIES.

'ELEVATION IS AN ARCHITECTURAL RENDERING NOT INTENDED TO REPRESENT ACTUAL CONDITIONS OR MATERIAL DISPLAYED. FINAL ELEVATION AND CHOICE OF MATERIALS ARE SUBJECT TO LOCAL JURISDICTION REQUIREMENTS AND BUILDER'S DISCRETION'



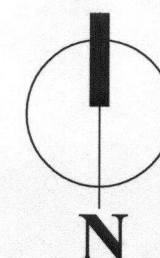
ELEVATION

APPROVED Urban Forestry

VICINITY MAP



SITE LOCATION



SITE PLAN (AND EROSION CONTROL PLAN)

SCALE: 1" = 10'-0"

PROJECT ADDRESS:  
 PARCEL 1, SE RAYMOND ST  
 PORTLAND, OR  
 PROJECT LEGAL:  
 TAX ID: R214023  
 STATE ID:  
 TAX ROLL:  
 LOT: PARCEL 1  
 BLOCK: 3

FLATWORK AREA:  
 CONCRETE DRIVEWAY & SIDE WALK 222 SF  
 LOT COVERAGE:  
 LOT AREA: 2,810 SF  
 BUILDING AREA (NOT INCLUDING EAVES): 1,208 SF  
 MAX BUILDING COVERAGE ALLOWABLE: 1,405 SF  
 IMPERVIOUS AREA:  
 ROOF AREA INCLUDING OVERHANGS: 1,560 SF  
 ZONING:  
 R2 - OVERLAY: NA

CONTACT INFO. INDEX OF SHEETS

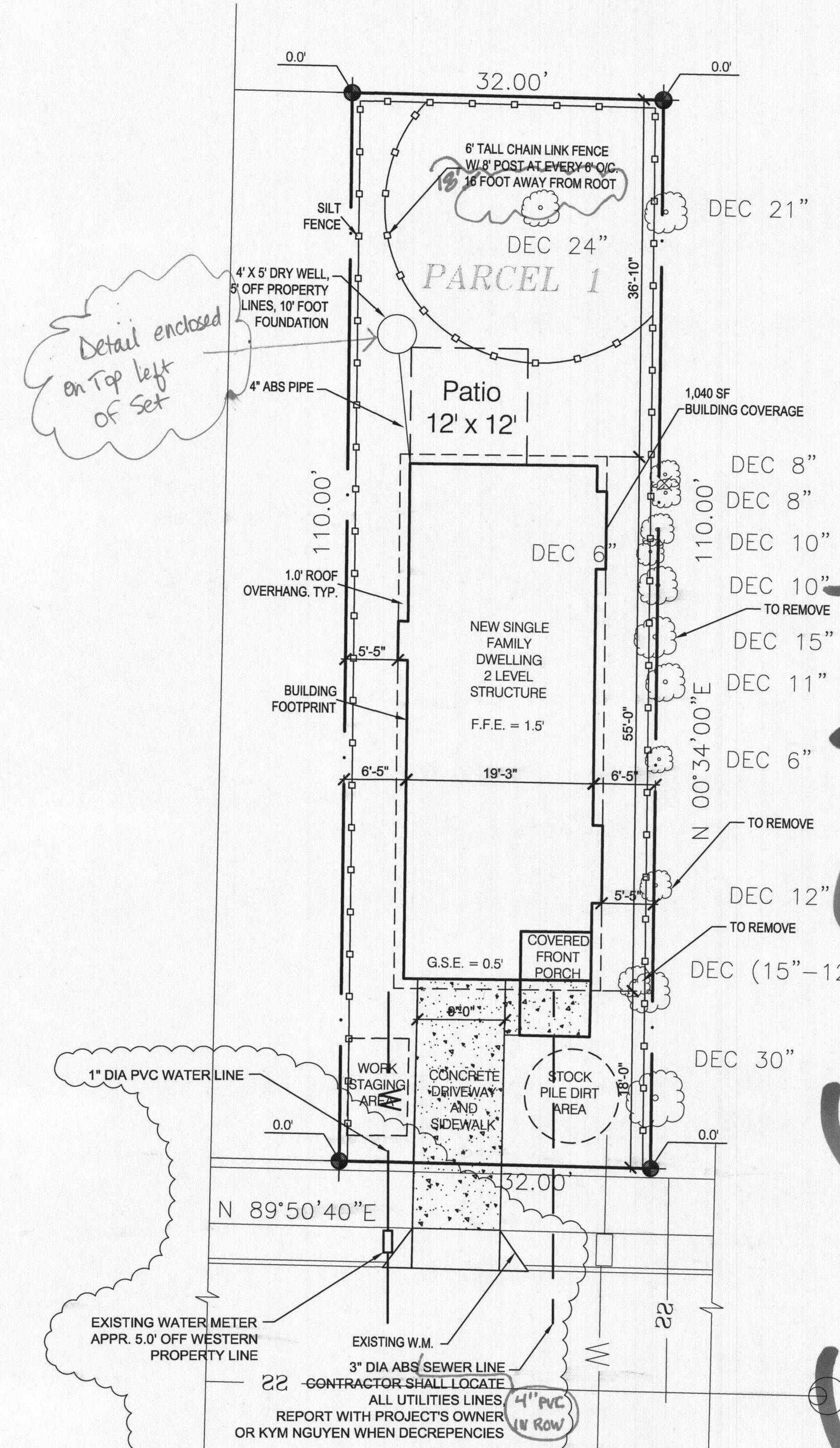
RESIDENTIAL DESIGN:  
 CONCEPT DESIGN & ASSOCIATES

P.O. BOX 8464  
 PORTLAND, OR 97207  
 PH: (503) 515-7418  
 kymcad@gmail.com  
 contact: Kym Nguyen

BUILDER & DEVELOPER:

DK HOMES LLC  
 P.O. BOX 90277  
 PORTLAND, OR 97290  
 PH: (503) 380-5959  
 Fax: (503) 762-1996  
 CCB#: 159237

PAGE #	DESCRIPTION
AO	SITE PLAN
CS	COVER SHEET
A1	EXTERIOR BUILDING ELEVATIONS
A2	FIRST FLOOR PLAN/2ND FLOOR FRAMING
A3	PLAN & SECOND FLOOR PLAN
A4	FOUNDATION PLAN, ROOF PLAN
D1	CROSS SECTION A & B
	INTERIOR STAIR DETAIL, FOOTING DETAIL
	POST & BEAM DETAIL, ALTERNATE BRACING
	FOR 1ST & 2ND FLOOR DETAIL & PORTAL
	FRAME DETAIL
G	GENERAL NOTES & SPECIFICATION
1.	DOCUMENT FOR GRAVITY ANALYSIS
2.	MANUFACTURE ROOF TRUSS (BY OTHER)



S.E. RAYMOND ST.  
 (60.00' WIDTH)

City of Portland  
 Bureau of  
 Development Services  
 Approved by  
 Planning and Zoning Review

City of Portland  
 REVIEWED FOR CODE  
 COMPLIANCE  
 APR 26 2018

RECEIVED  
 MAR 16 2018  
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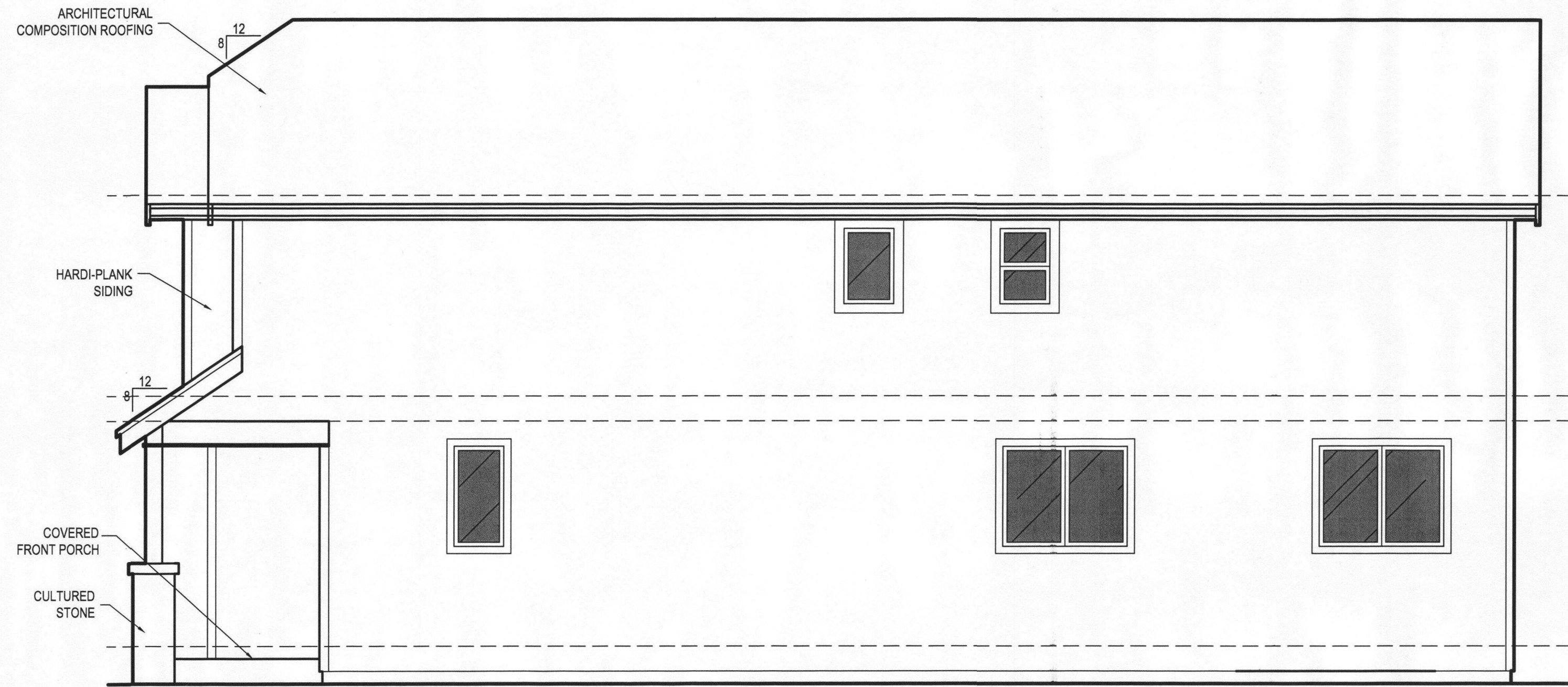
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 Design & Associates  
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 PHONE: 503-515-7418  
 www.knstudiopdx.com

COVER SHEET  
 17-188547-RS  
 RS CS  
 47

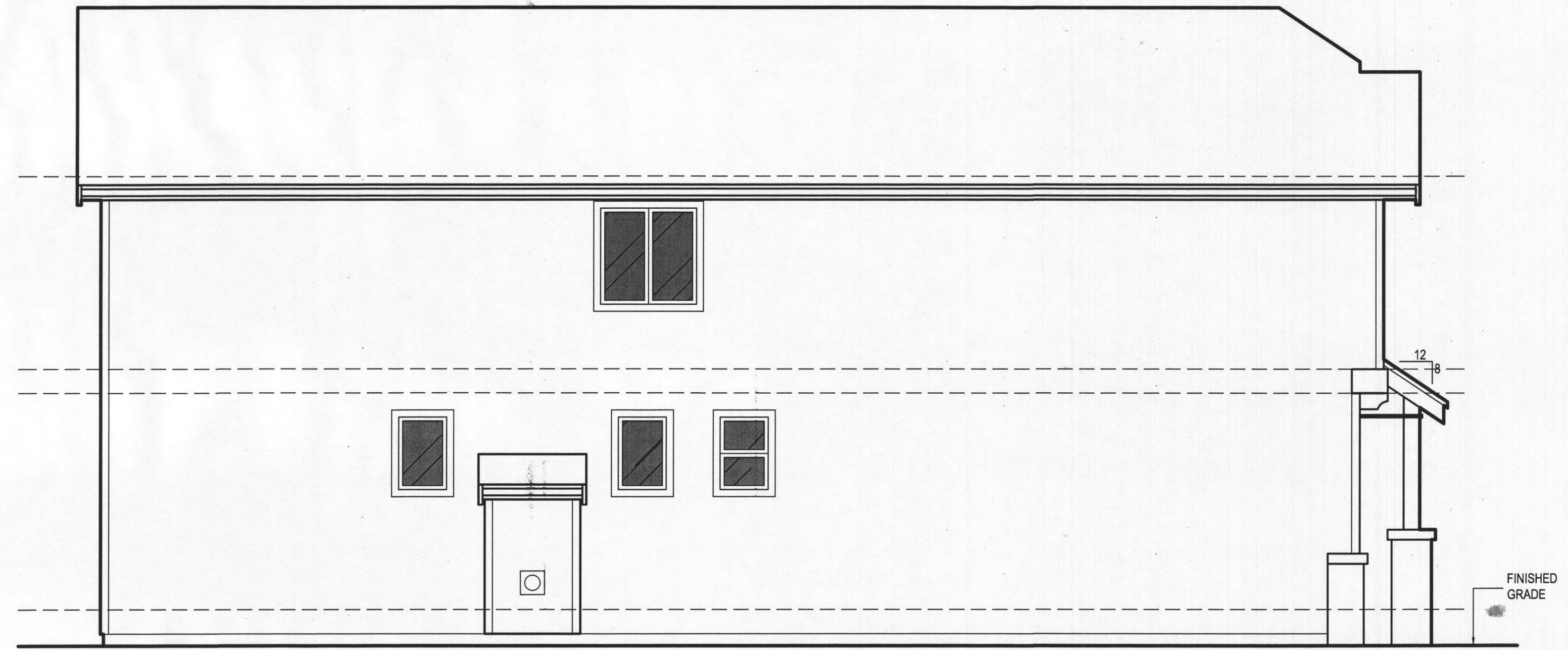
PLAN NUMBER:  
 P-1980  
 PROJECT NAME:  
 SINGLE DWELLING  
 PROJECT ADDRESS:  
 SE Raymond Ave  
 Portland, Or.  
 OWNER:  
 DK Homes LLC

Revisions  
 REV: 03-10-2017  
 PER CITY  
 REV: 03-13-2018  
 PER BES

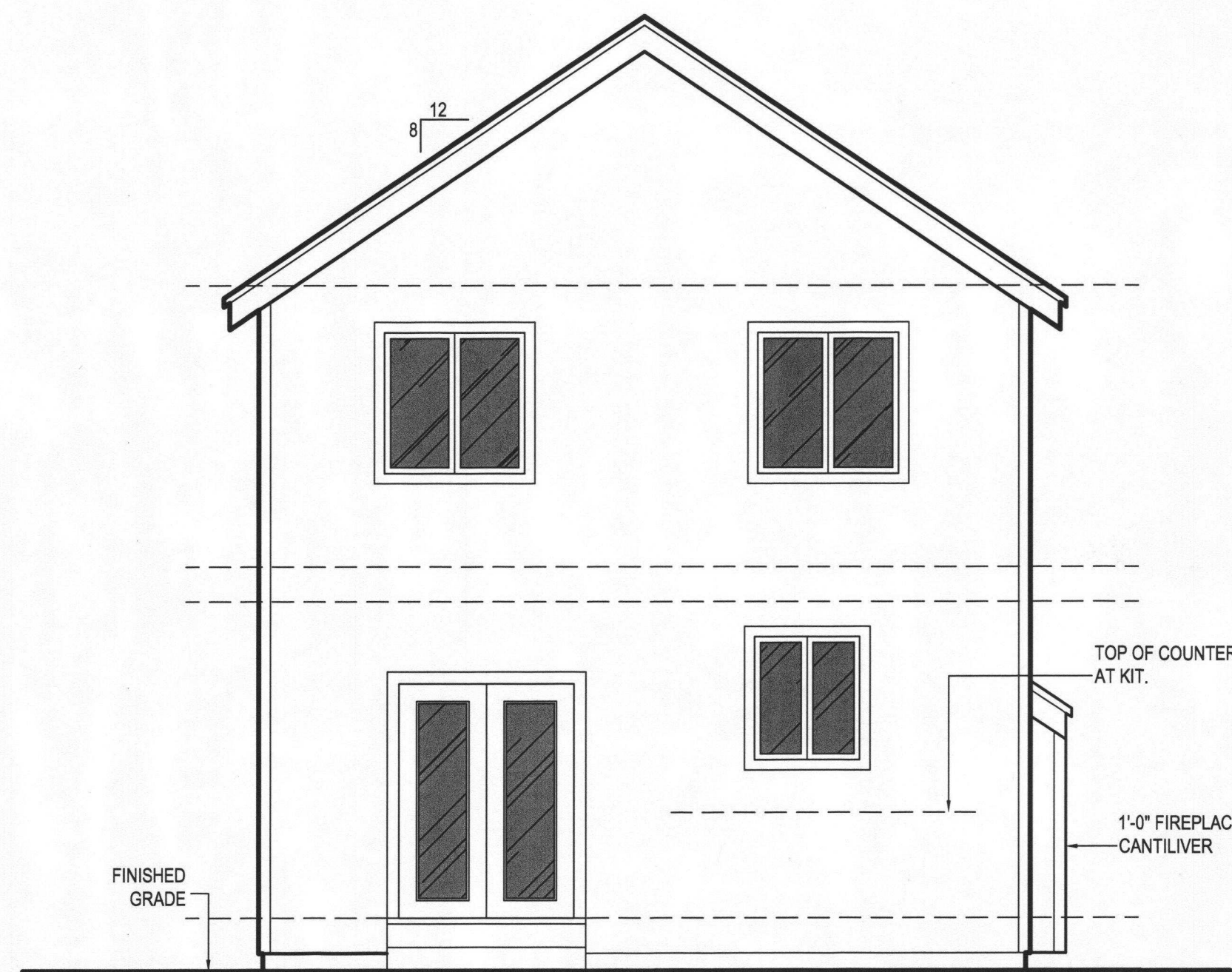
Drawn & Checked By: KN  
 Project Number: 17-190  
 Issue Date: 6-13-2017  
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 Sheet Number:



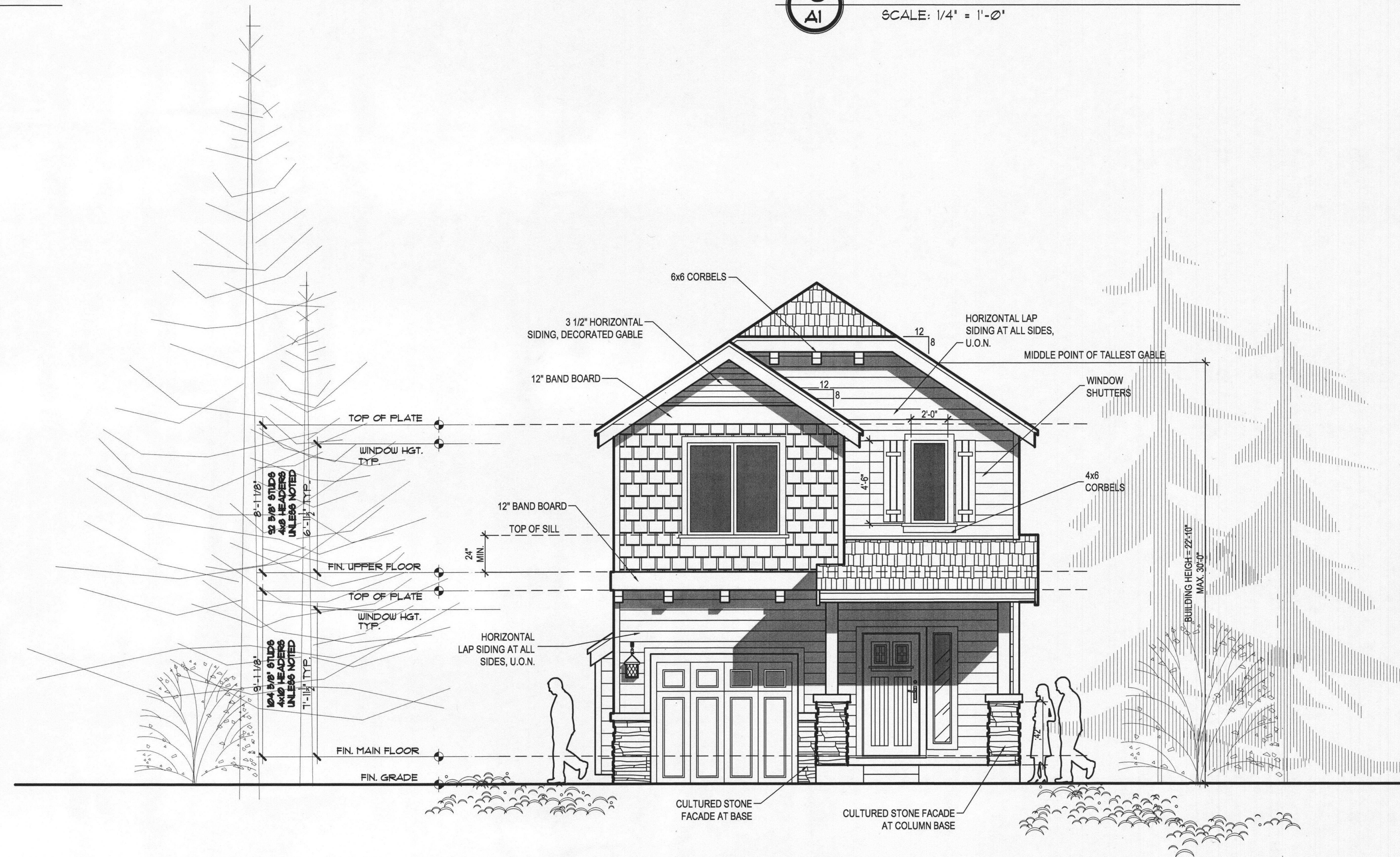
**4**  
AI  
**Right Side Elevation**  
SCALE: 1/4" = 1'-0"



**3**  
AI  
**Left Side Elevation**  
SCALE: 1/4" = 1'-0"



**2**  
AI  
**Rear Elevation**  
SCALE: 1/4" = 1'-0"



**1**  
AI  
**Front Elevation**  
SCALE: 1/4" = 1'-0"

**CITY OF PORTLAND  
BASE ZONE DESIGN  
STANDARD.**  
**STREET-FACING  
FACADE:**  
16'-00" Sq. Ft. Window &  
Door Area of Street  
Facing divided by  
44.000' Sq. Ft. Area of  
street facing facade =  
1123 % Window and  
Door Area of Street  
Facing Facade (16% 11%)

City of Portland  
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City of Portland  
Bureau of  
Development Services  
By *L. Watkins* Date *4/25/18*  
Approved by  
Planning and Zoning Review

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P-1980  
PROJECT NAME:  
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PROJECT ADDRESS:  
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Portland, Or.  
OWNER:  
DK Homes LLC

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KN

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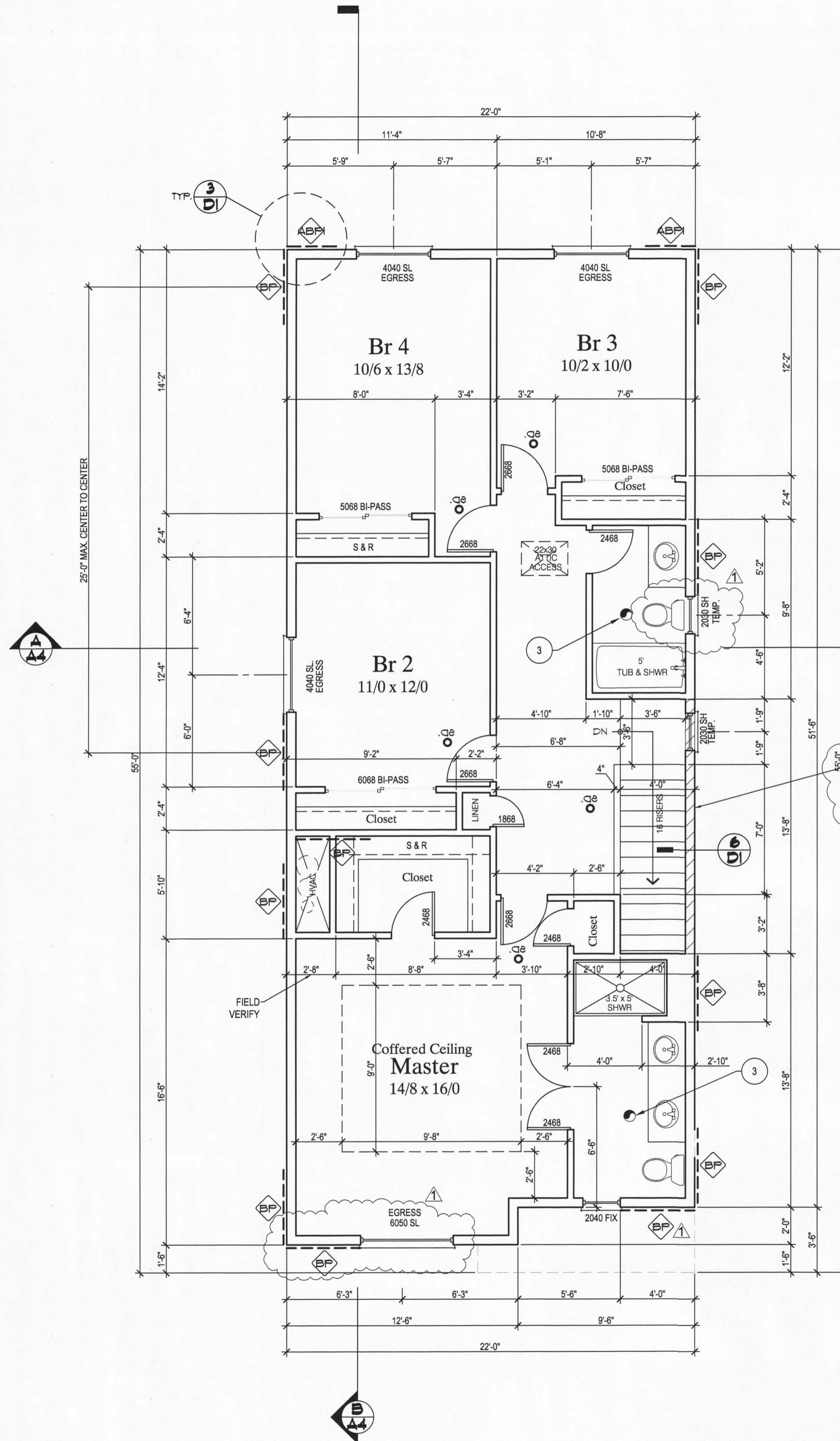
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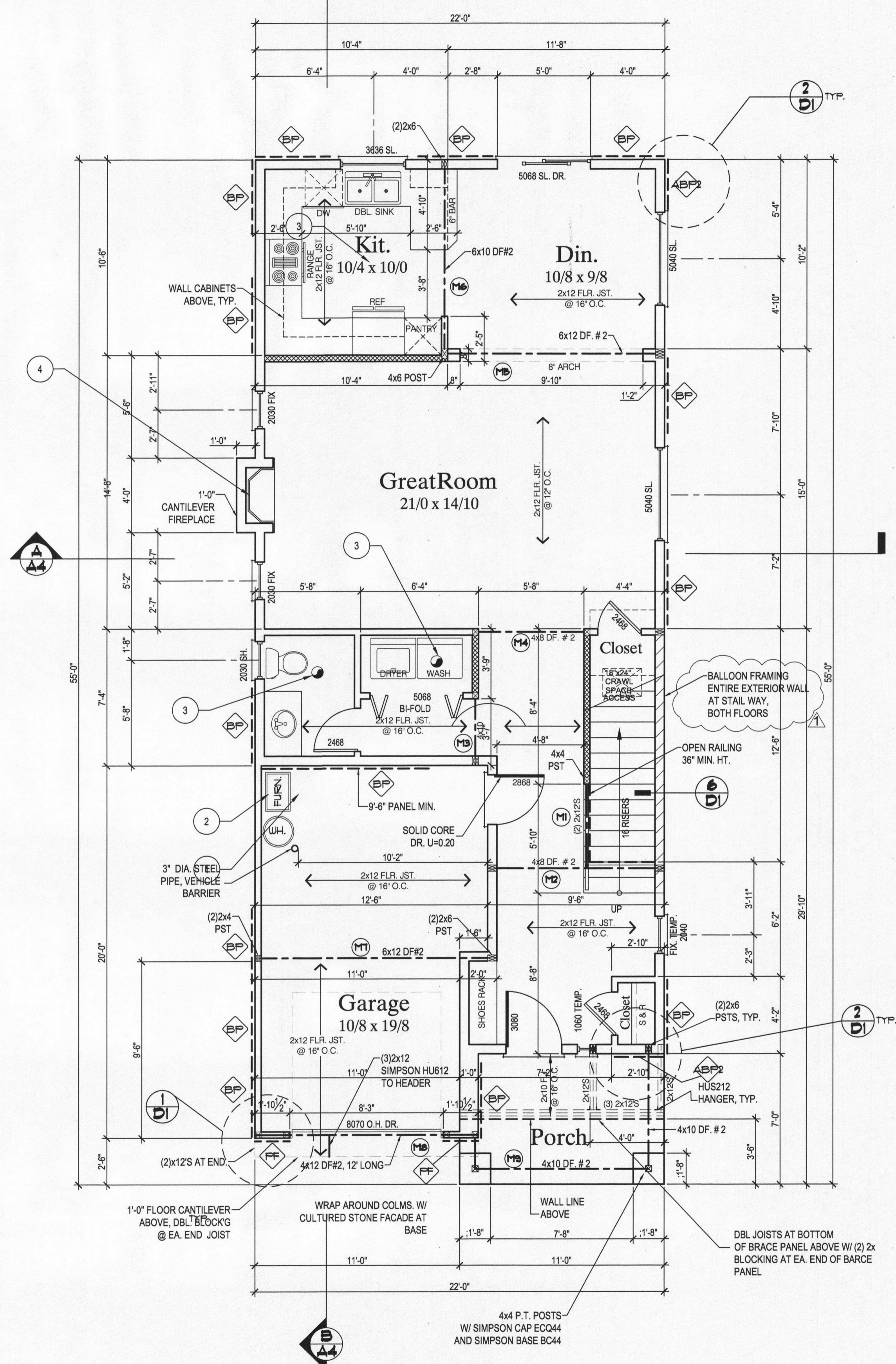
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BUILDING ELEVATIONS

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**2**  
A2  
**2ND FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



**1**  
A2  
**2ND FLOOR FRAMING PLAN  
1ST FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**LEGEND**

- INTERIOR BEARING WALL (SUPPORTING STRUCTURE ABOVE)
- POINT LOAD FROM ABOVE
- BEARING POINT LOCATION AT WALL PROVIDE SOLID BEARING, MIN. OF MEMBER WIDTH, UNLESS NOTED
- 120V SMOKE/HEAT DETECTOR W/ BATTERY BACKUP-INNER CONNECT
- CARBON MONOXIDE ALARM SHALL BE INSTALLED IN EACH SLEEPING ROOM OR WITHIN 15 FEET OUTSIDE EACH SLEEPING ROOM DOOR. CO ALARMS MAY BE HARD-WIRED OR BATTERY-POWERED. CO ALARMS MAY BE COMBINATION SMOKE/CO ALARMS WHEN INSTALLED AS REQUIRED FOR SMOKE ALARM.

**LATERAL BRACING LEGEND:**

- INDICATED REQUIRED BRACE PANEL, 48" WIDTH w/ 8d # 6" O/C EDGES 12" O/C FIELD 3/8" MIN. SHEATHING UNLESS OTHERWISE NOTED
- NOTE: \* LOCATION OF ABP, 2" AT FIRST LEVEL, 1" AT SECOND LEVEL. ALTERNATE BRACE PANEL, 3" MIN. LENGTH, UNLESS OTHERWISE NOTED
- INDICATED PORTAL FRAME LOCATION, 22 1/2" MIN. WIDTH.
- NOTE:**  
PER TABLE R602.10.3(1)  
1ST STORY 45% BRACING REQUIRED  
2ND STORY 20% BRACING REQUIRED  
THE CENTER-TO-CENTER MAX. 25 FEET AT EACH BRACE PANEL

**KEY NOTES**

- 1 HIGH EFFICIENCY HVAC SYSTEM: GAS-FIRED FURNACE BOILER WITH MINIMUM AFUE OF 90%  
NOTE:  
a. FURNACE LOCATED WITHIN THE BUILDING ENVELOPE SHALL HAVE SEALED COMBUSTION AIR INSTALLED. COMBUSTION AIR SHALL BE DUCTED DIRECTLY FROM THE OUTDOORS.
- 2 WATER HEATER SHALL ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT CAUSED BY EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF WATERHEATER TANK'S VERTICAL DIMENSIONS. STRAPPING SHALL MAINTAIN A MIN. DISTANCE OF 4 INCHES AT THE LOWER POINT. PROVIDE 18" HIGH PLATFORM. INSTALLATION PER MANUFACTURER TO MEET BLDG & PLUMBING CODES.
- 3 VENT BATHS, RANGE HOOD W/ 150 CFM, UTILITY FANS TO OUTSIDE
- 4 BATHROOM FAN W/ MIN. 80 CFM ON TIMER OR HUMIDISTAT, TYP.
- 5 METAL GAS FIREPLACE TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS, PROVIDE OUTSIDE COMBUSTIBLE AIR.
- 6 TOP OF FINISHED SILL @ 24" MIN. TO FINISHED FLOOR AT 2ND LEVEL, TYP.
- 7 PROVIDE STEPS TO FINISHED GRADE, FINISHED PATIO, EQ TREAD W/ MIN. 10" & EQ RISER W/ MAX 7 3/4"
- 8 DOUBLE JOISTS AT END OF BRACE PANEL, TYP.

City of Portland  
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By *L. Perkins* Date *4/25/18*  
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Revisions	
1	REV: 03-23-2018 Per City
Drawn & Checked By	KN
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Sheet Number	

FIRST FLOOR LIVING AREA:	860 SF
2ND FLOOR LIVING AREA:	1,120 SF
GARAGE:	248 SF
<b>TOTAL LIVING AREA:</b>	<b>1,980 SF</b>

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**1ST FLOOR PLAN/UPPER  
FRAMING PLAN AND 2ND  
FLOOR PLAN**

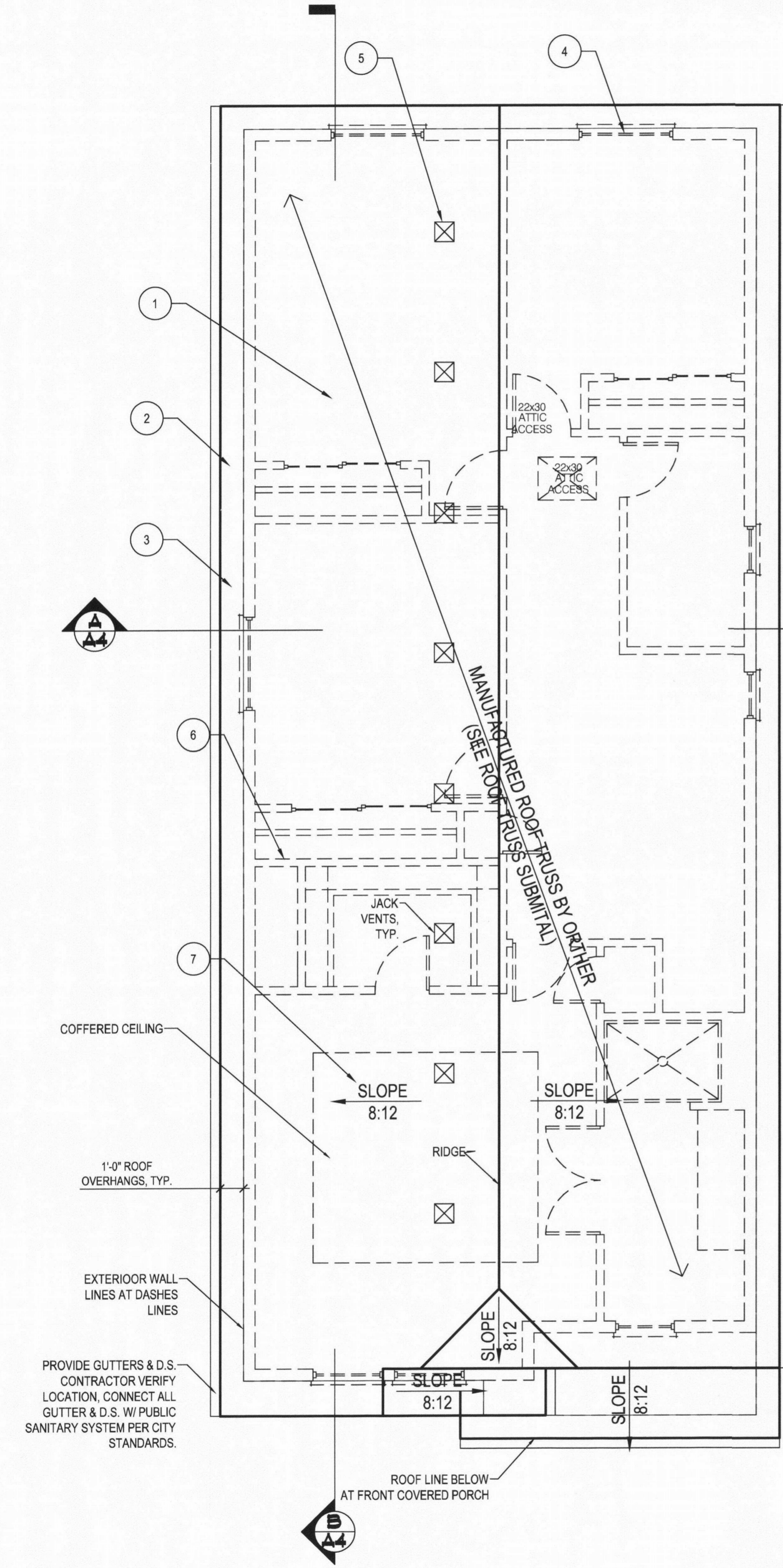
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**ROOF NOTES & LEGEND:**

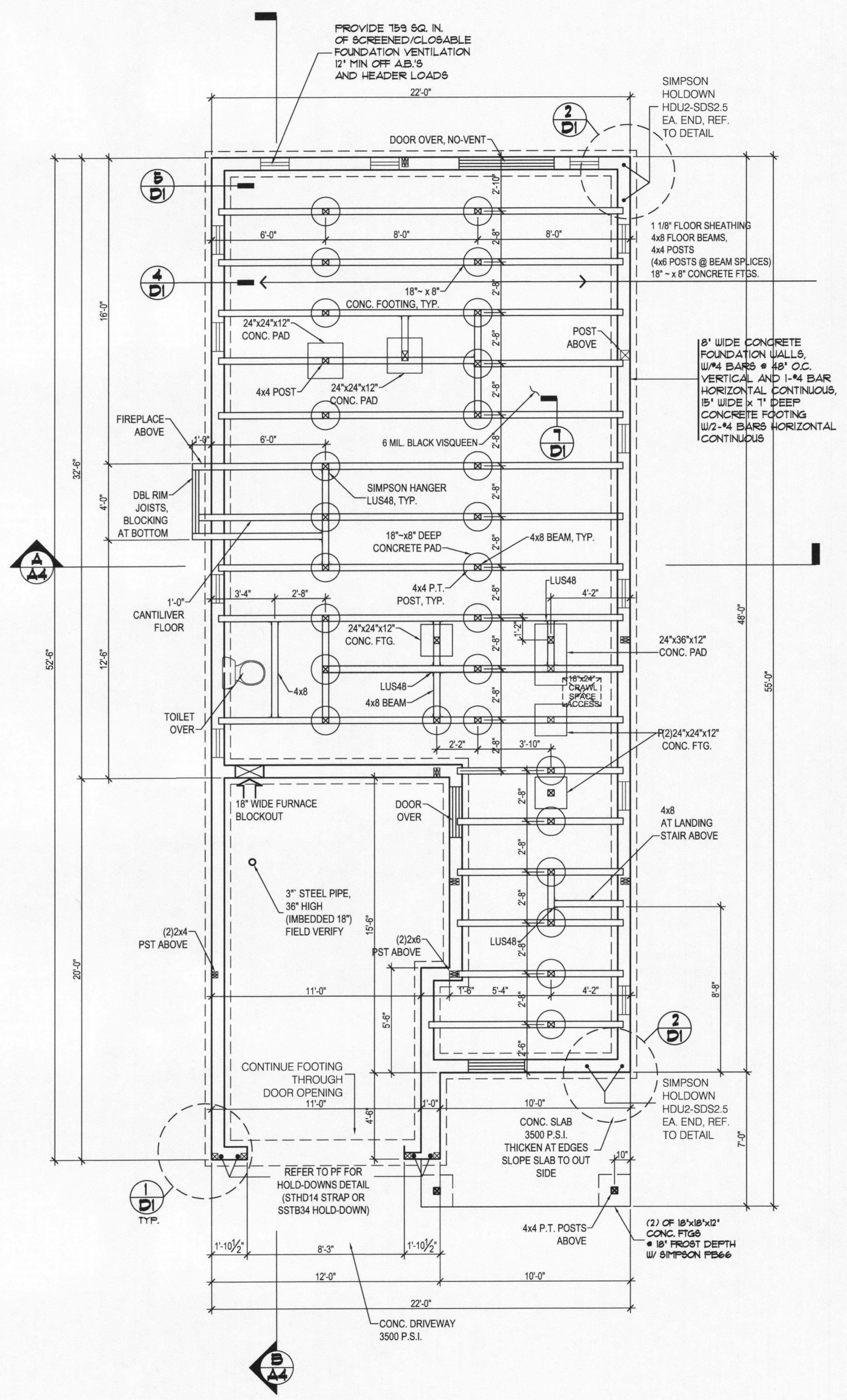
- 1 ARCHITECTURAL COMPOSITION ROOFING, OVER 1 LAYER OF 15# FELT, UNLESS NOTED. 1/2" ROOF SHEATHING
- 2 GALVANIZED GUTTER SYSTEM. (CONSTRUCTION TO SPECIFY & LOCATE DOWNSPOUTS)
- 3 ROOF OVERHANGS: 1'-0" TYP. U.O.N. ROOF PITCH: VARIES, REF. TO ROOF PLAN. BARGE RAFTER: 2x8, U.O.N.
- 4 4x8 WINDOW AND DOOR HDR. U.O.N.
- 5 PROVIDE ROOF VENTILATION MIN 200 SQ. IN. VENTILATION. CONTRACTOR TO SPECIFY & LOCATE ALL ROOF VENTS.
- 6 USE HURRICANE TIES H2.5A TYP. AT ROOF RAFTER TO TOP PLATES CONNECTIONS.
- 7 COFFERED CEILING. MANUFACTURED SC1650R TRUSSES @ 24" O.C.

**FOUNDATION NOTES:**

NOTE: 'SIMPSON' PRODUCTS TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS. SEE CURRENT 'SIMPSON' CATALOG FOR MORE INFORMATION.



**2**  
**ROOF PLAN**  
SCALE: 1/4" = 1'-0"



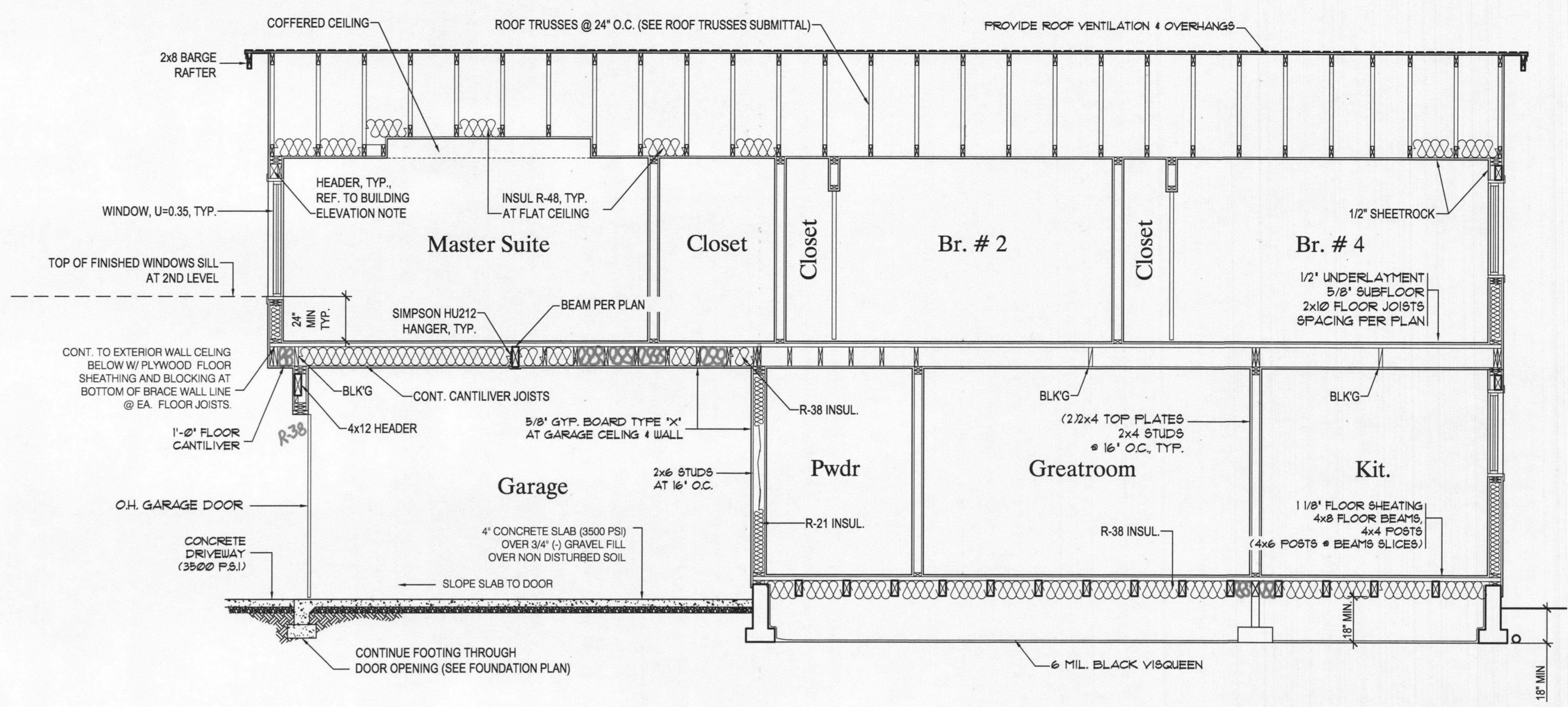
**1**  
**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

**ROOF PLAN & FOUNDATION PLAN**

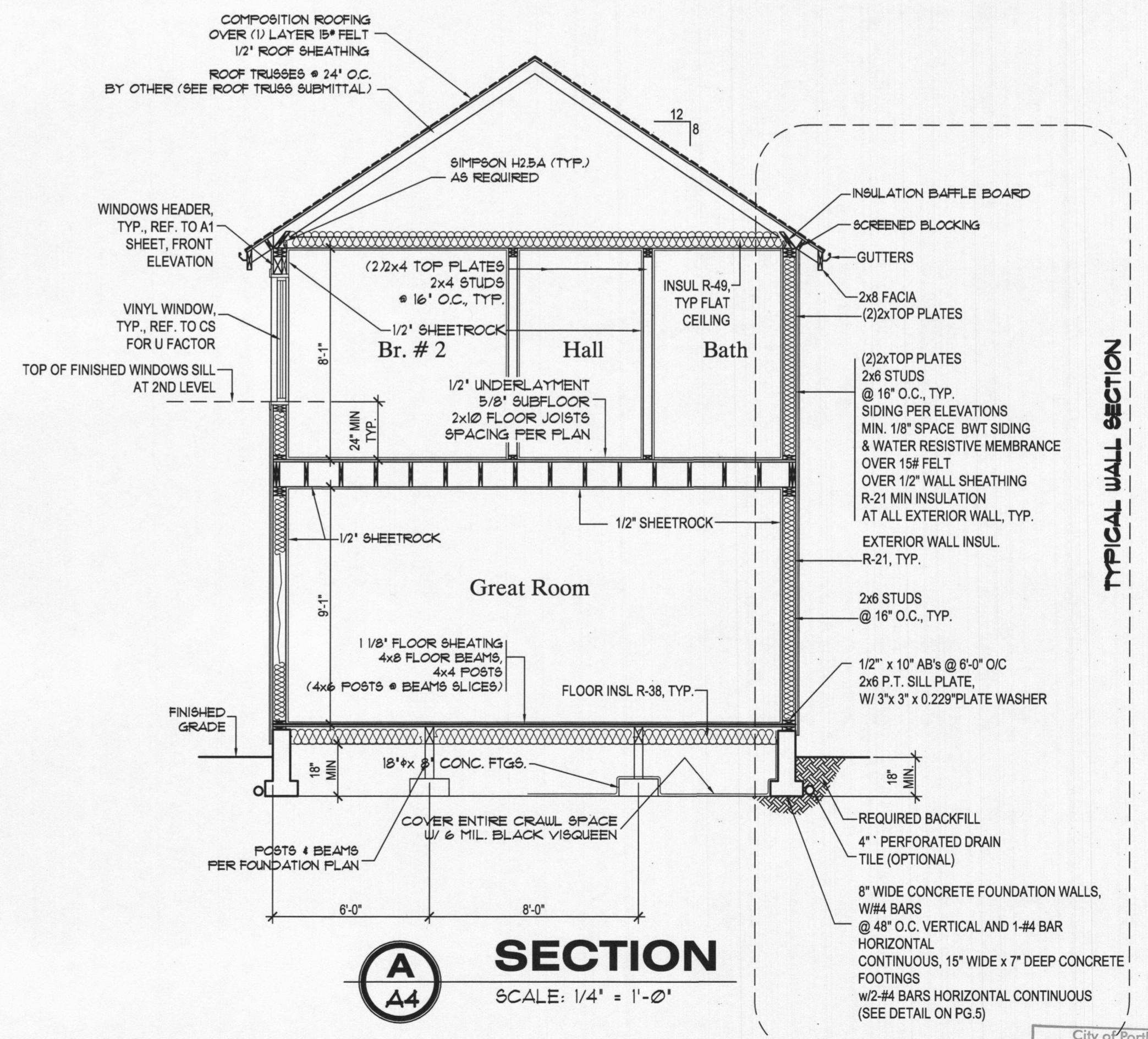
PLAN NUMBER: P-1980  
PROJECT NAME: SINGLE DWELLING  
PROJECT ADDRESS: SE Raymond Ave  
Portland, Or.  
OWNER: DK Homes LLC

Revisions	

City of Portland  
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APR 26 2018  
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**B**  
**A4** SECTION  
SCALE: 1/4" = 1'-0"



**A**  
**A4** SECTION  
SCALE: 1/4" = 1'-0"

BUILDING CROSS SECTIONS

PLAN NUMBER:  
P-1980  
PROJECT NAME:  
SINGLE DWELLING  
PROJECT ADDRESS:  
SE Raymond Ave  
Portland, Or.  
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DK Homes LLC

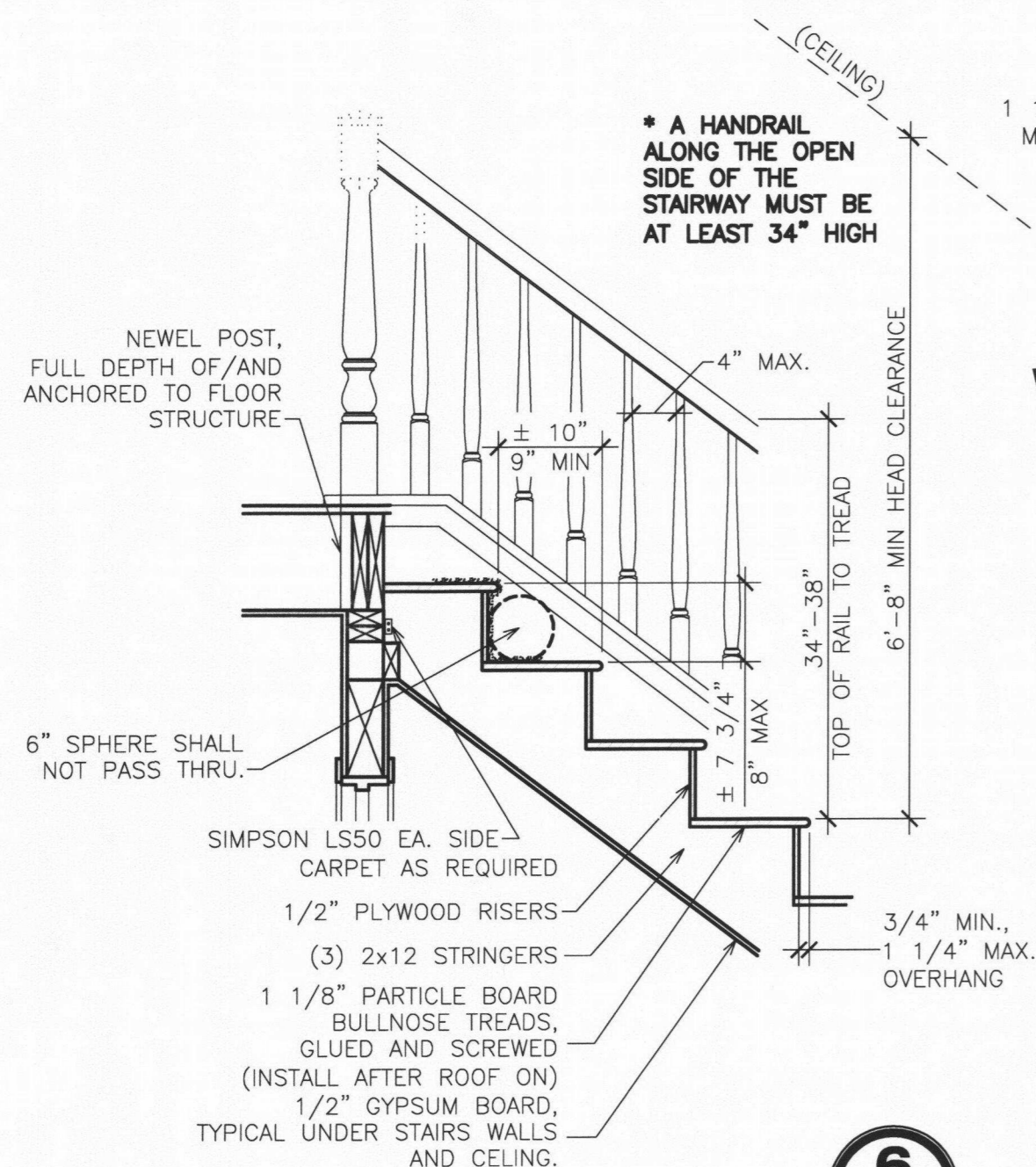
Revisions  
REV: 03-23-2018  
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**KN**  
Project Number  
**17-190**  
Issue Date  
**6-13-2017**  
Drawing File Name  
**P1980PLAN.DWG**  
Sheet Number

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**A4**

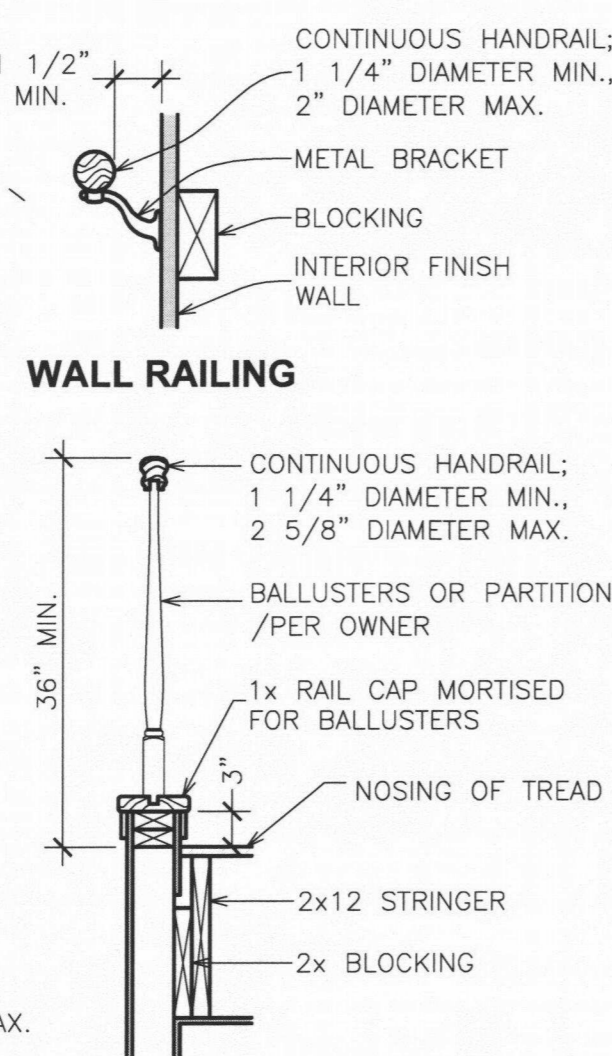
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**6**  
DI

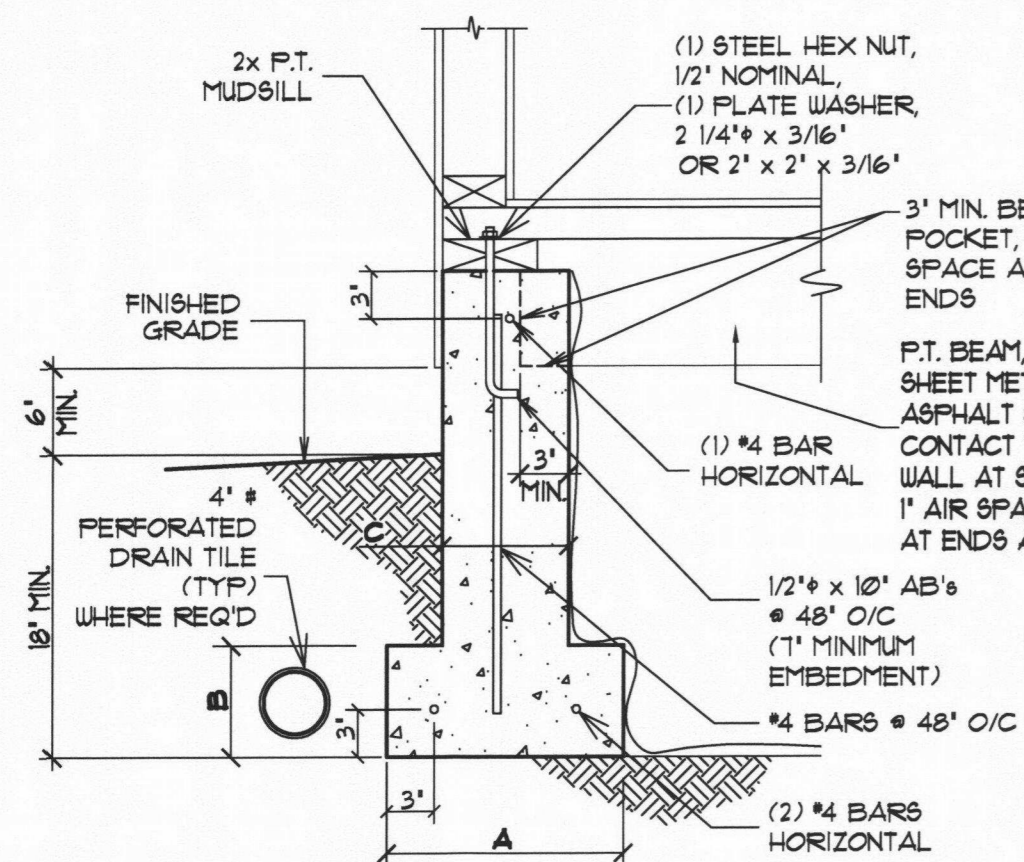
**TYPICAL INTERIOR STAIR DETAIL**

NTS



**TYPICAL INTERIOR STAIR DETAIL**

NTS



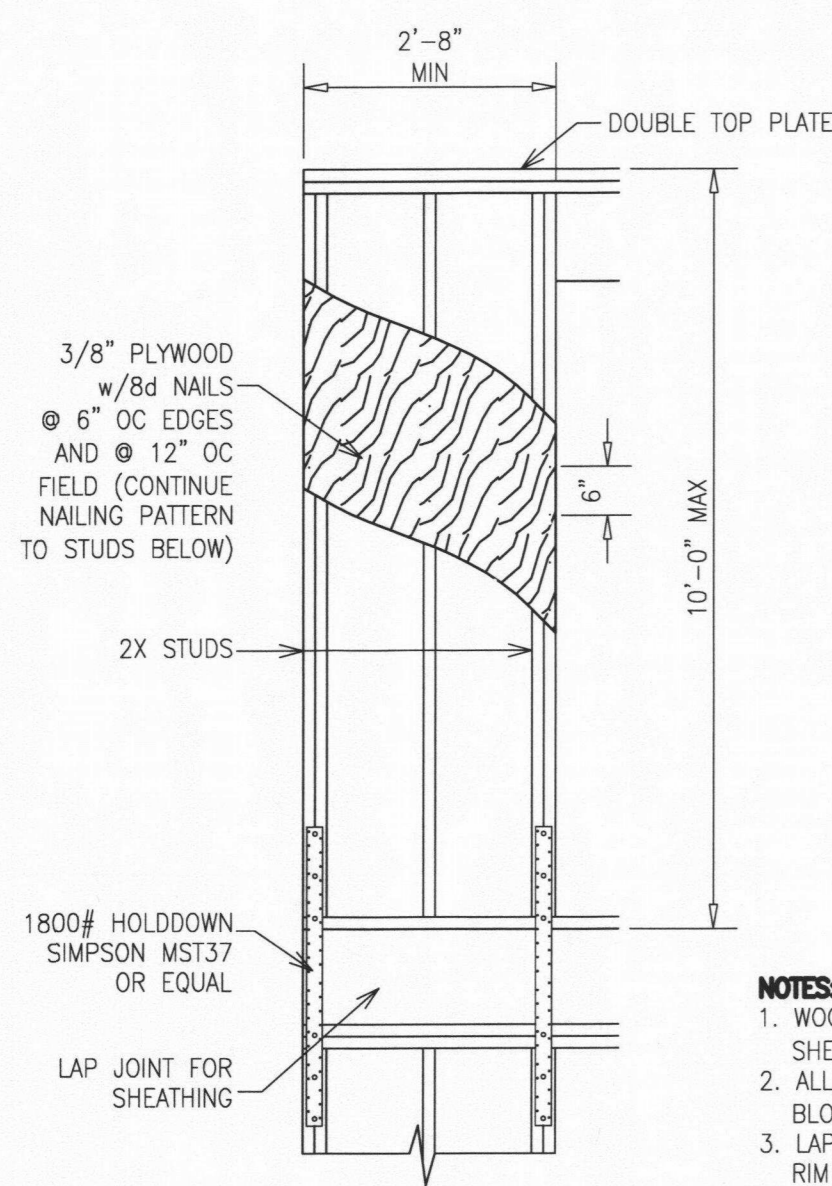
MIN. FOUNDATION DIMENSIONS	A	B	C
1 STORY:	12'	6'	6'
2 STORY:	15'	7'	8'
3 STORY:	18'	8'	10'

NOTE: SEE FOUNDATION PLAN FOR STEM WALL AND FOOTING SIZES.

**5**  
DI

**TYPICAL FOOTING REINFORCEMENT**

NTS



FRONT VIEW

**ABP - 1 ALTERNATE BRACE PANEL 2ND STORY OF TWO STORY**

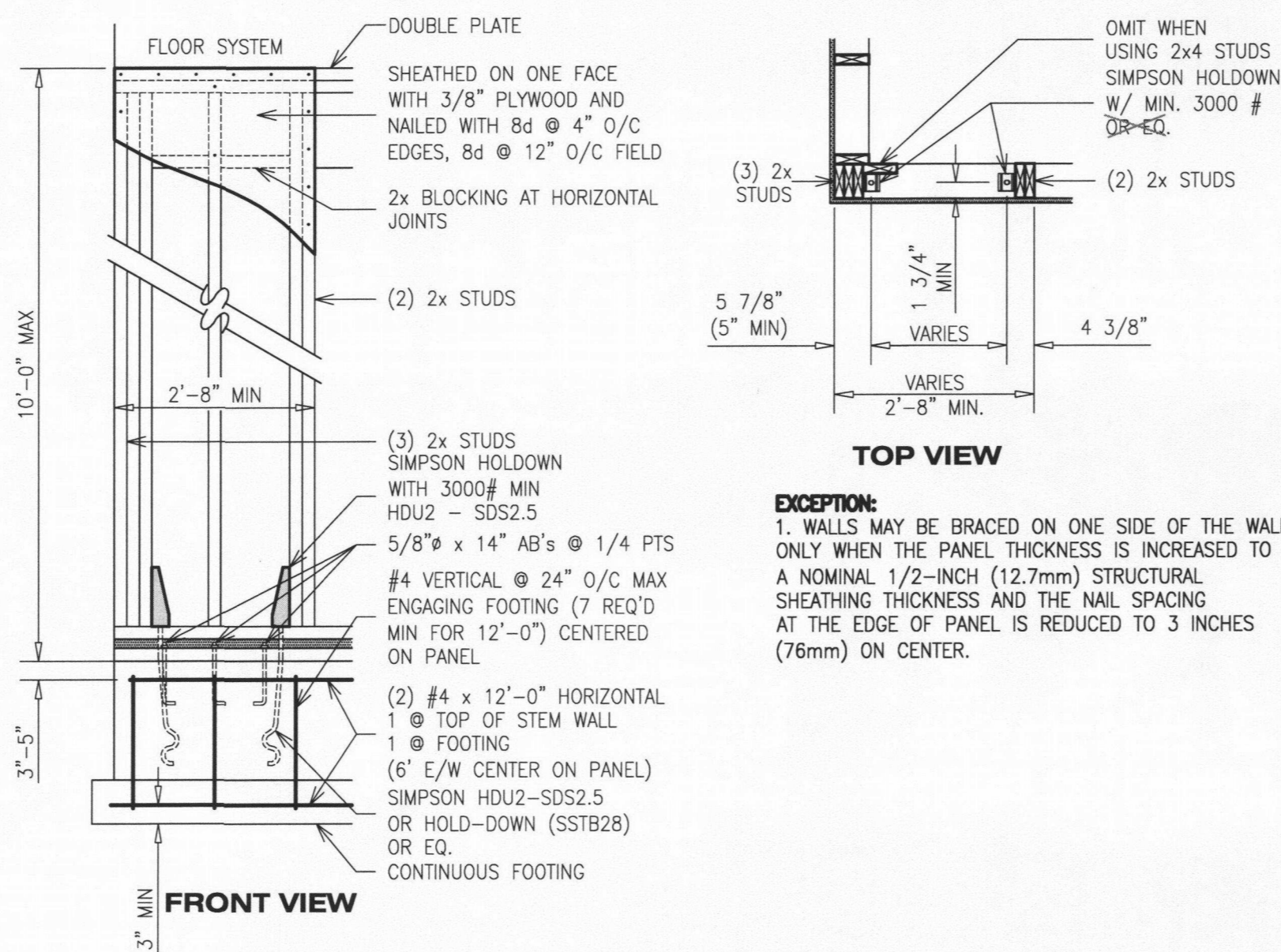
NOTES:  
1. WOOD STRUCTURAL PANEL SHEATHING (NOT SIDING) REQUIRED.  
2. ALL HORIZONTAL JOINTS TO BE BLOCKED w/FLAT 2x STOCK.  
3. LAP SHEATHING TO MIDDLE OF RIM JOIST AT BASE AND OVER DOUBLE TOP PLATE FULLY AT TOP.

**3**  
DI

**ABP1 DETAIL**

NTS

**ABP - 2 ALTERNATE BRACE PANEL 1ST STORY OF TWO STORY**



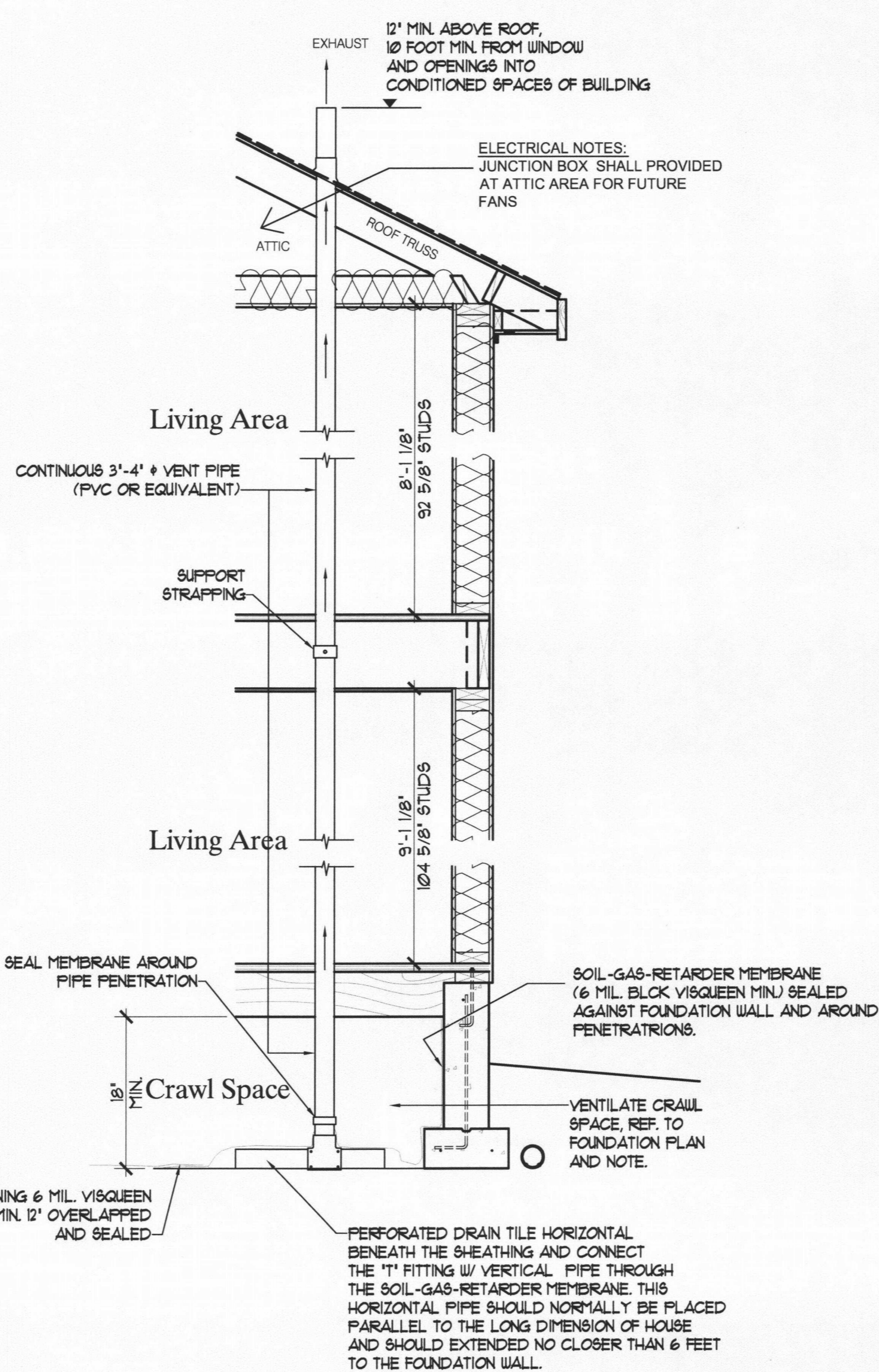
TOP VIEW

EXCEPTION:  
1. WALLS MAY BE BRACED ON ONE SIDE OF THE WALL ONLY WHEN THE PANEL THICKNESS IS INCREASED TO A NOMINAL 1/2-INCH (12.7mm) STRUCTURAL SHEATHING THICKNESS AND THE NAIL SPACING AT THE EDGE OF PANEL IS REDUCED TO 3 INCHES (76mm) ON CENTER.

**2**  
DI

**ABP2 DETAIL**

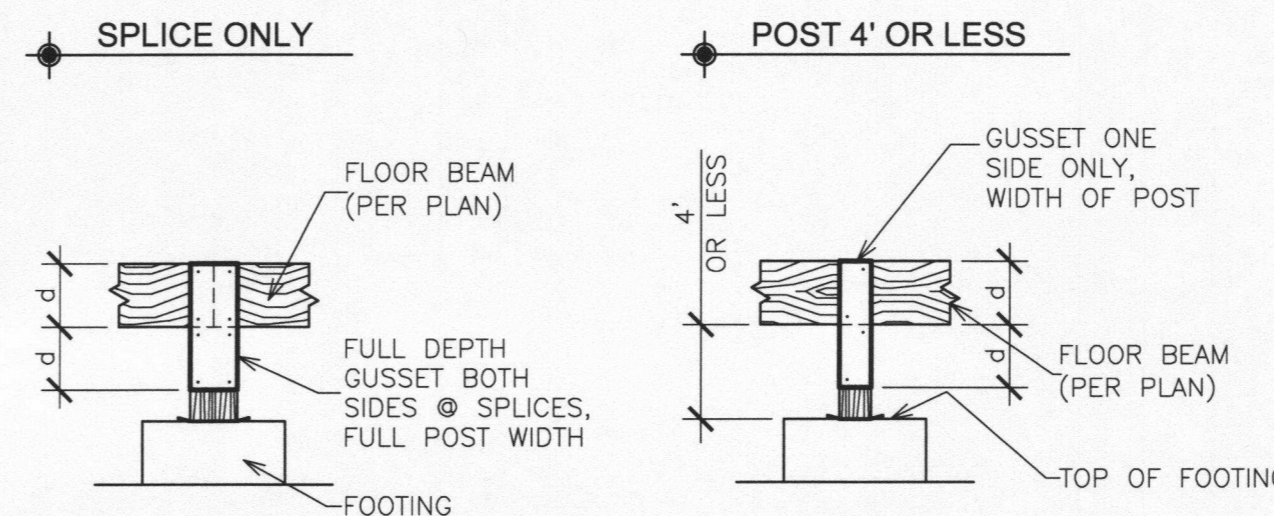
NTS



**4**  
DI

**RADON CONTROL DETAIL**

NTS



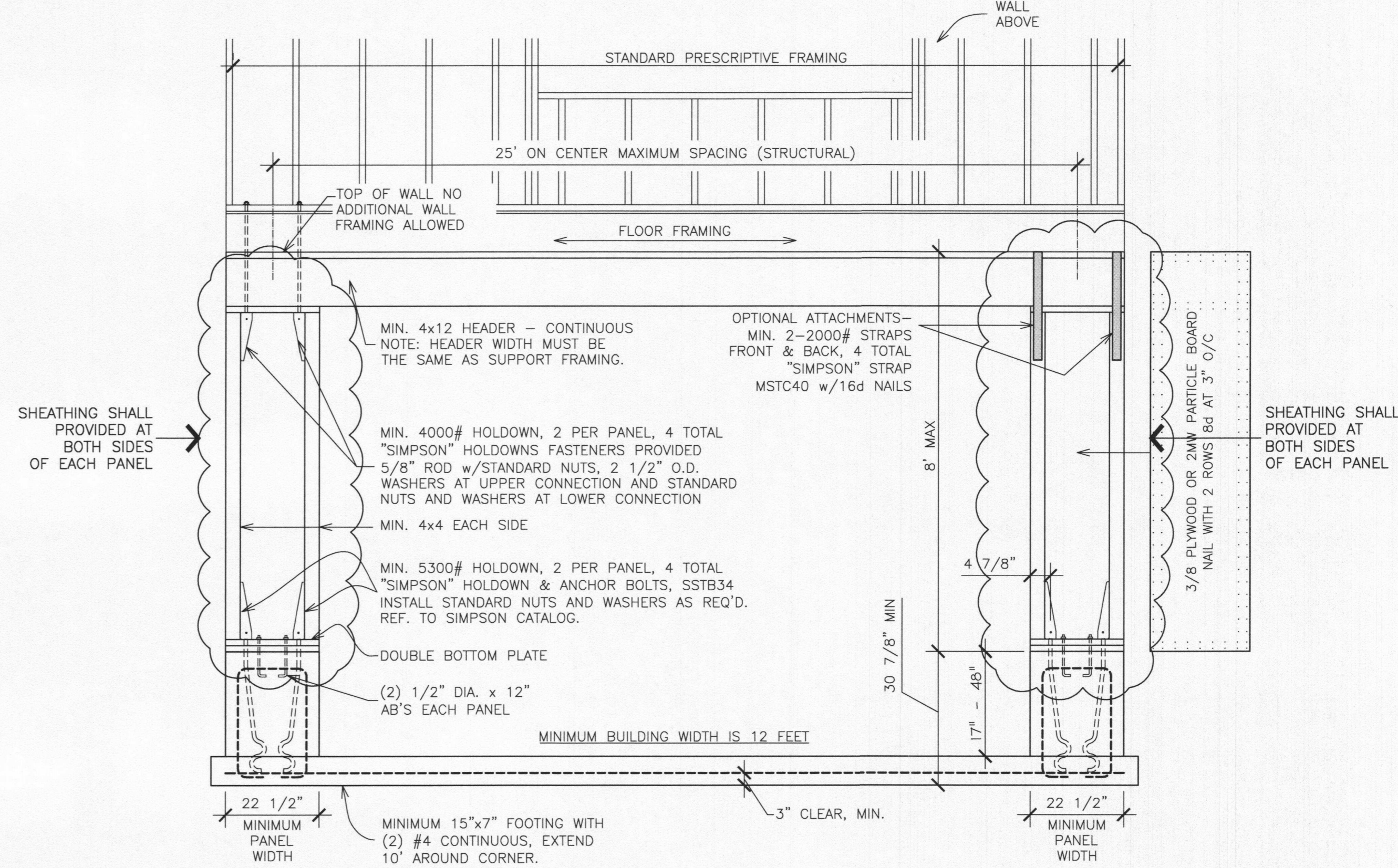
**7**  
DI

**Post & Beam Connections At Crawl Space**

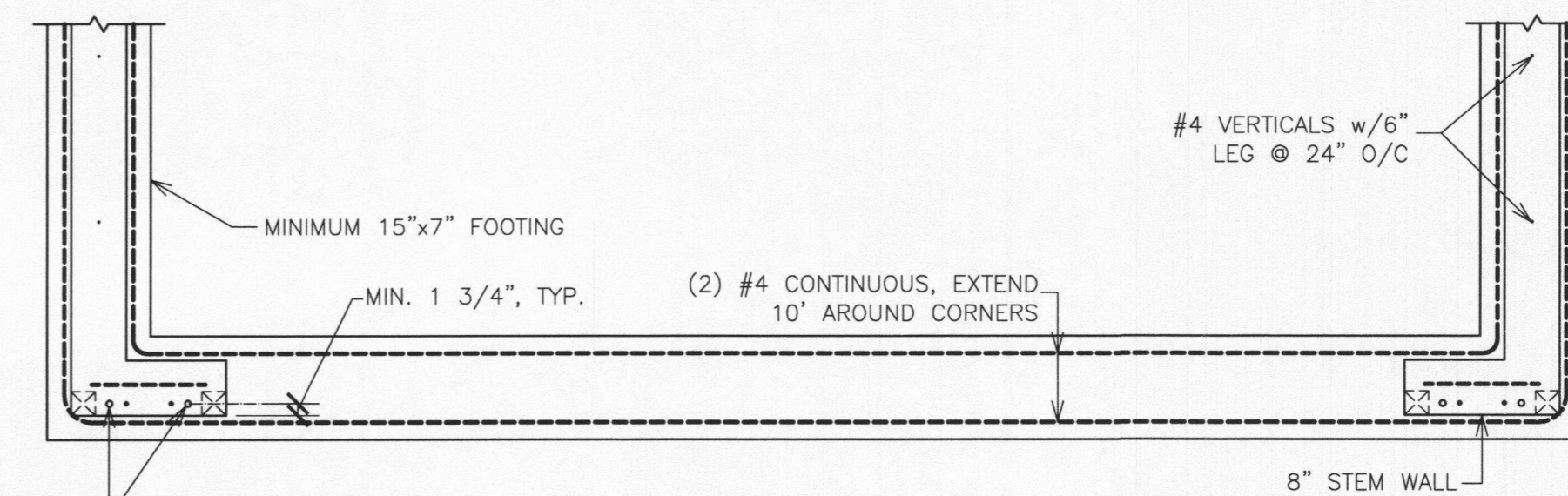
(OTHER EQUIVALENT METHODS OK)

NTS

- CONNECTORS:**
- QUANTITY AS SHOWN ON DETAILS.
  - GUSSET PLATE: 1/2" STRUCTURAL SHEATHING OR 1x4" NOMINAL WOOD LUMBER MIN. OR 18 GAUGE (0.0598") STEEL SHEETING MIN.
  - NAILS: 8d FOR 1/2" STRUCTURAL SHEATHING OR 1x (VARIES) NOMINAL MATERIAL, 10d FOR 2x (VARIES) NOMINAL MATERIAL & LARGER
  - WOOD SCREWS & STAPLES ARE AN ACCEPTABLE ALTERNATE.
- | NAIL AND SCREW PENETRATION     | END OR EDGE DISTANCE |
|--------------------------------|----------------------|
| 8d NAILS, #8 SCREWS = 1 1/2"   | 3/4"                 |
| 10d NAILS, #10 SCREWS = 1 5/8" | 13/16"               |



FRONT VIEW - FRAMING DETAIL



TOP VIEW - FOUNDATION DETAIL

- NOTES:
- VERTICAL DOWELS ARE #4 WITH 6" LEG
  - HORIZONTAL WALL REINF. MIN. (1) #4 OR PER HOLD-DOWN REQUIREMENT WHICH EVER IS MORE RESTRICTIVE.
  - ANCHOR BOLTS ARE (2) 1/2" x 12" MIN./PANEL
  - ROOF IS TO BE SHEATHED WITH A.P.A. RATED STRUCTURAL USE PANELS.
  - NO ADDITIONAL WALL FRAMING ALLOWED.

\* THE PANELS AT THE END OF EACH PORTAL FRAME MUST BE EQUAL WIDTH AND HEIGHT

**1**  
DI

**Portal Frame 2 Story Structure**

NTS

PLAN NUMBER: P-1995-A  
PROJECT NAME: SINGLE DWELLING  
PROJECT ADDRESS: SE Raymond Ave  
Portland, Or.  
OWNER: DK Homes LLC

Revisions

Drawn & Checked By: KN  
Project Number: 17-190  
Issue Date: 5-21-2017  
Drawing File Name: P1995AxPLAN.DWG  
Sheet Number

City of Portland  
REVIEWED FOR CODE COMPLIANCE  
APR 26 2018  
Permit Number

D1





**MiTek USA, Inc.**

250 Klug Circle  
Corona, CA 92880  
951-245-9525

Re: B1701644  
DK Homes

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by ProBuild West - Beaverton, OR.

Pages or sheets covered by this seal: K3247589 thru K3247599

My license renewal date for the state of Oregon is December 31, 2017.

17-188547RS



*David Merrill Baxter*  
EXPIRES: 5/14/2014

May 30, 2017

Baxter, David

**IMPORTANT NOTE:** Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.





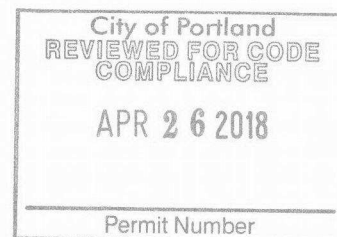
Job B1701644	Truss A01	Truss Type GABLE	Qty 1	Ply 1	DK Homes K3247589
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ProBuild Beaverton Truss, Beaverton, oR 97007

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:52 2017 Page 2  
ID:DjKklw\_csBnsESiNLVN55?zBeiX-BDpIAPEHmfMIW6PfgmELgqjQUNzbU0fHWa0QzBce1

**NOTES-**

- 12) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

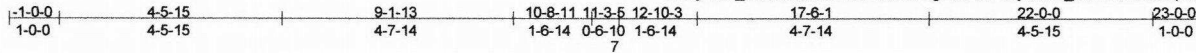


250 Klug Circle  
Corona, CA 92880

Job B1701644	Truss A02	Truss Type California	Qty 1	Ply 1	DK Homes K3247590
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ProBuild Beaverton Truss, Beaverton, oR 97007

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:53 2017 Page 1  
ID:DjKklw\_csBnsESINLVN55?zBeiX-gPN7OIFvXyUb7F\_sDTIaDzM2NqnQ1i9uxG7YtzBce0



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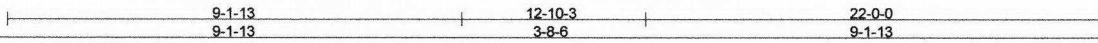
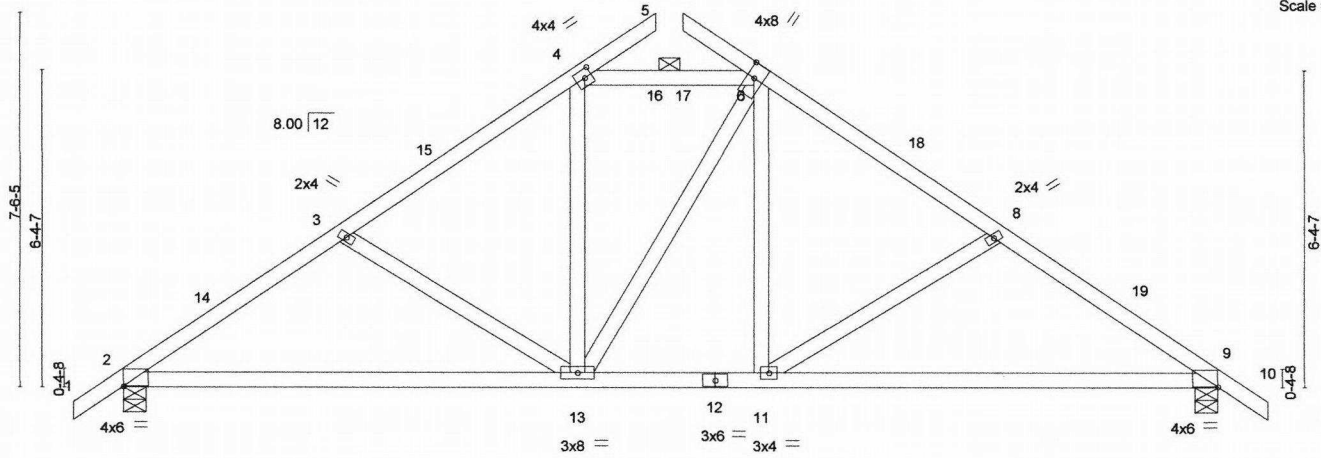


Plate Offsets (X,Y)-- [4.0-1-12,0-2-0], [6.0-3-8,0-1-12]

<b>LOADING</b> (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 7.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2015/TPI2014	<b>CSI.</b> TC 0.27 BC 0.41 WB 0.18 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.13 9-11 >999 240 Vert(CT) -0.39 9-11 >657 180 Horz(CT) 0.04 9 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 220/195  Weight: 115 lb FT = 10%
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**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr G  
BOT CHORD 2x4 DF No.1&Btr G  
WEBS 2x4 DF Std G

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1075/0-5-8, 9=1075/0-5-8  
Max Horz 2=235(LC 7)  
Max Uplift 2=253(LC 10), 9=258(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-14=-1445/605, 3-14=-1395/623, 3-15=-1208/592, 4-15=-1115/606, 4-16=-937/729, 16-17=-937/729, 6-17=-937/729, 6-18=-1115/606, 8-18=-1208/592, 8-19=-1394/624, 9-19=-1445/605  
BOT CHORD 2-13=-389/1146, 12-13=-308/937, 11-12=-308/937, 9-11=-390/1146  
WEBS 3-13=-333/223, 4-13=-55/305, 6-11=-44/304, 8-11=-333/223

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) automatic zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-5-13, Exterior(2) 6-5-13 to 15-6-3, Interior(1) 15-6-3 to 20-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) A plate rating reduction of 20% has been applied for the green lumber members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=253, 9=258.
  - 9) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

City of Portland  
REVIEWED FOR CODE COMPLIANCE  
APR 26 2018  
Permit Number



EXPIRES: 12/31/2017  
May 30, 2017

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

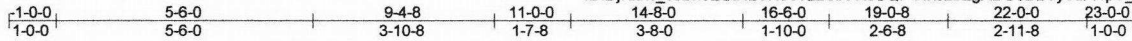


Job B1701644	Truss A03	Truss Type Roof Special	Qty 4	Ply 1	DK Homes	K3247591
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ProBuild Beaverton Truss, Beaverton, oR 97007

7.640 s Nov 10 2015 MiTek Industries, Inc. Mon May 29 16:36:05 2017 Page 1

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Scale: 1/4"=1'

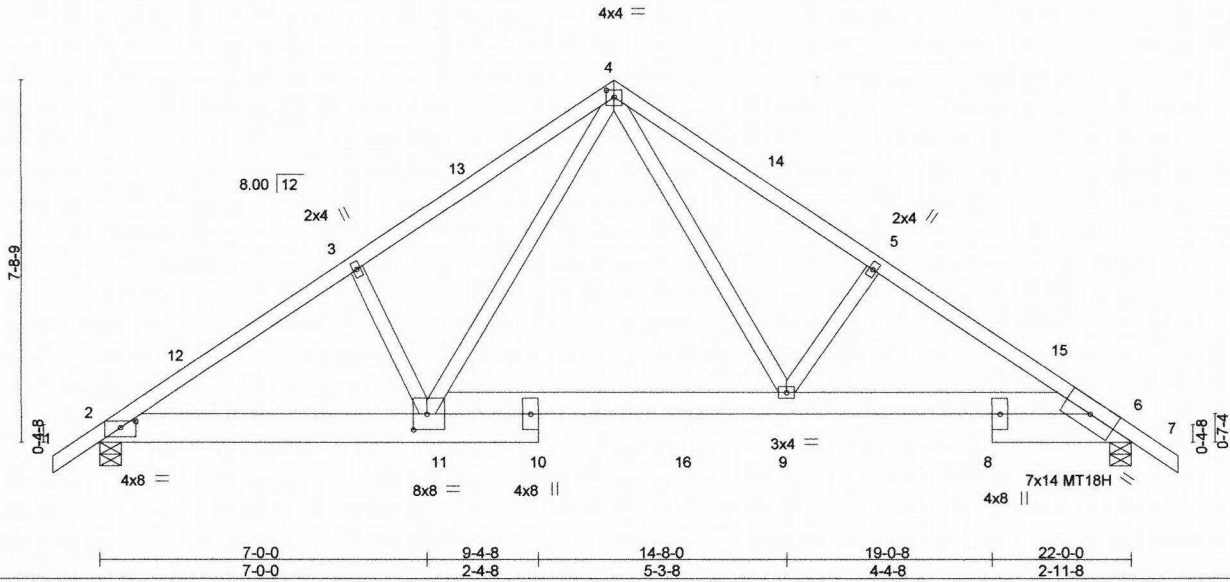


Plate Offsets (X,Y) - [2:0-4-0-0-1-10], [4:0-2-0-0-1-12], [11:0-3-8-0-4-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2015/TPI2014	TC 0.29 BC 0.66 WB 0.29 (Matrix)	in (loc) l/defl L/d Vert(LL) -0.05 9-11 >999 240 Vert(CT) -0.15 6-9 >999 180 Horz(CT) 0.05 6 n/a n/a	MT20 MT18H Weight: 135 lb	220/195 220/195 FT = 10%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr G  
BOT CHORD 2x8 DF SS \*Except\*  
6-11: 2x6 DF No.2  
WEBS 2x4 DF Std G

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

(lb/size) 2=983/0-5-8, 6=983/0-5-8  
Max Horz 2=-229(LC 8)  
Max Uplift 2=-225(LC 10), 6=-225(LC 11)

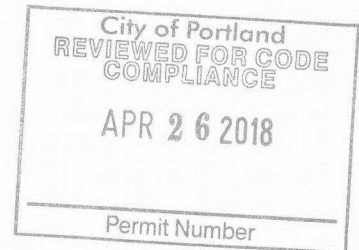
**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-12=-1413/275, 3-12=-1245/291, 3-13=-1250/320, 4-13=-1140/331, 4-14=-1235/345,  
5-14=-1354/334, 5-15=-1366/318, 6-15=-1534/302  
BOT CHORD 2-11=-280/1221, 10-11=-56/748, 10-16=-49/762, 9-16=-49/762, 8-9=-158/1206,  
6-8=-166/1203  
WEBS 4-11=-184/607, 3-11=-347/291, 4-9=-197/726, 5-9=-354/290

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) automatic zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-0-0, Exterior(2) 8-0-0 to 11-0-0, Interior(1) 14-0-0 to 20-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2 and 225 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)** Standard



EXPIRES: 12/31/2017  
May 30, 2017

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



250 Klug Circle  
Corona, CA 92880

Job B1701644	Truss A04	Truss Type Common	Qty 20	Ply 1	DK Homes K3247592
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ProBuild Beaverton Truss, Beaverton, OR 97007 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:54 2017 Page 1  
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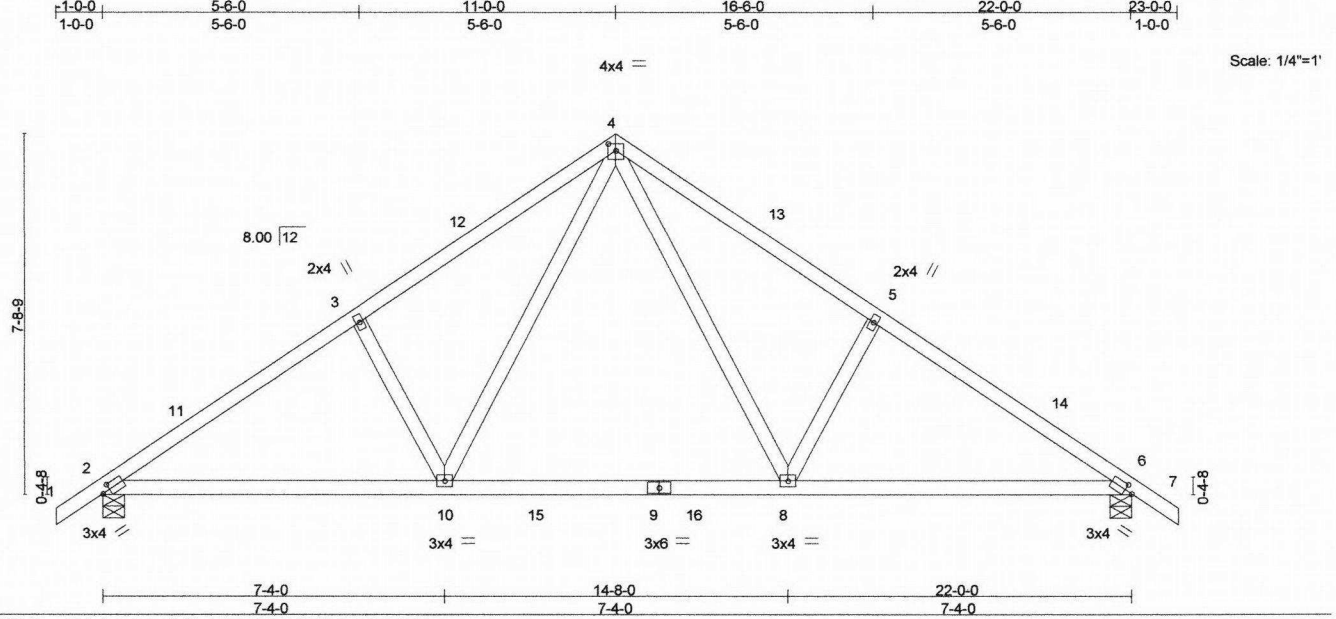


Plate Offsets (X,Y)-- [2:0-2-0,0-1-8], [4:0-2-0,0-1-12], [6:0-2-0,0-1-8]

<b>LOADING</b> (psf) TCLL 25.0 (Roof Snow=25.0) TCCL 7.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2015/TPI2014	<b>CSI.</b> TC 0.29 BC 0.31 WB 0.23 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.10 8-10 >999 240 Vert(CT) -0.19 8-10 >999 180 Horz(CT) 0.03 6 n/a n/a	<b>PLATES</b> MT20  Weight: 103 lb	<b>GRIP</b> 220/195  FT = 10%
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**LUMBER-**  
TOP CHORD 2x4 DF No. 1&Btr G  
BOT CHORD 2x4 DF No. 1&Btr G  
WEBS 2x4 DF Std G

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-7-13 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=983/0-5-8, 6=983/0-5-8  
Max Horz 2=229(LC 9)  
Max Uplift 2=224(LC 10), 6=224(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-11=-1312/267, 3-11=-1140/290, 3-12=-1159/329, 4-12=-1039/340, 4-13=-1039/340, 5-13=-1159/329, 5-14=-1140/290, 6-14=-1312/267  
BOT CHORD 2-10=-267/1117, 10-15=-47/701, 9-15=-47/701, 9-16=-47/701, 8-16=-47/701, 6-8=-130/1010  
WEBS 4-8=-194/581, 5-8=-341/291, 4-10=-194/581, 3-10=-341/291

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) automatic zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-0-0, Exterior(2) 8-0-0 to 11-0-0, Interior(1) 14-0-0 to 20-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) A plate rating reduction of 20% has been applied for the green lumber members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=224, 6=224.
  - 8) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

City of Portland  
REVIEWED FOR CODE COMPLIANCE  
APR 26 2018  
Permit Number

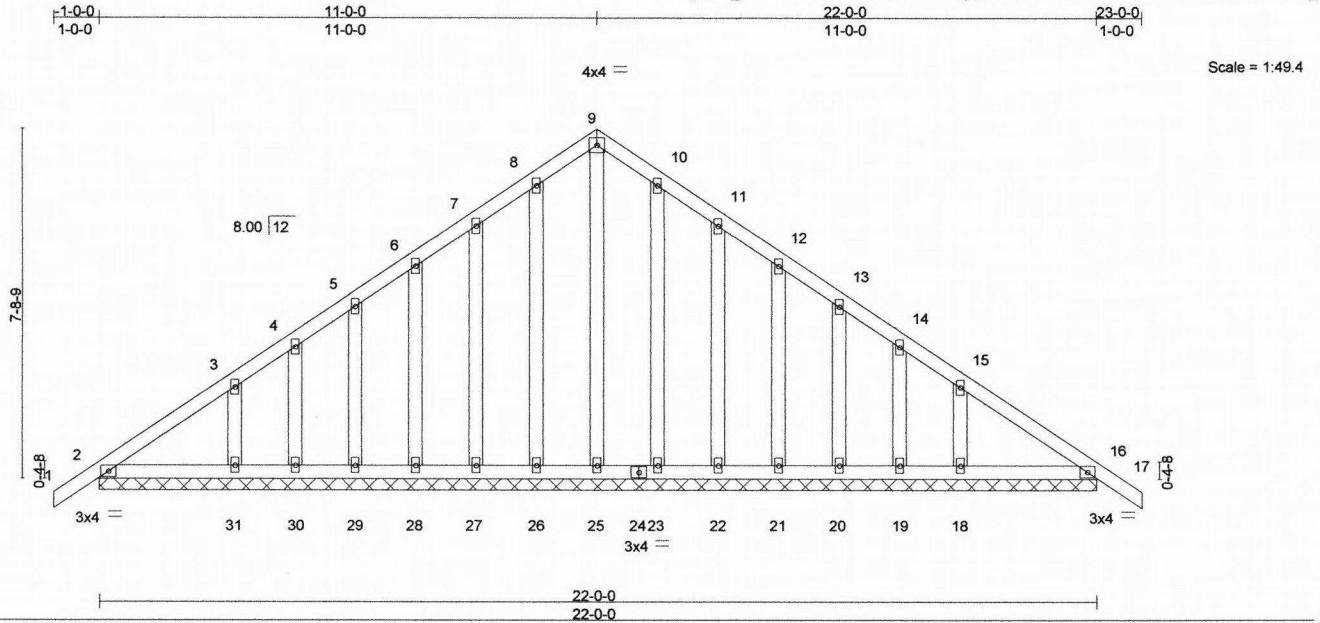


EXPIRES: 12/31/2017  
May 30, 2017

Job B1701644	Truss A05	Truss Type GABLE	Qty 1	Ply 1	DK Homes K3247593
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ProBuild Beaverton Truss, Beaverton, OR 97007

7.640 s Sep 29 2015 MITek Industries, Inc. Mon May 29 13:26:55 2017 Page 1  
ID:DjKklw\_csBnsESINLVN557zBeiX-coVupQG93aIJNZ8ELuo2IOSRseZeAxLSLFIEdlzBce\_



<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.08 BC 0.04 WB 0.17 (Matrix)	in (loc) l/defl L/d Vert(LL) 0.00 16 n/r 90 Vert(CT) 0.00 17 n/r 120 Horz(CT) 0.01 16 n/a n/a	MT20	220/195
TCDL 7.0	Rep Stress Incr YES			Weight: 147 lb	FT = 10%
BCLL 0.0 *	Code IBC2015/TPI2014				
BCDL 10.0					

**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr G  
BOT CHORD 2x4 DF No.1&Btr G  
OTHERS 2x4 DF Std G

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 22-0-0.  
(lb) - Max Horz 2--229(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 16 except 31--121(LC 10), 18--121(LC 11)  
Max Grav All reactions 250 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16 except 31=250(LC 18)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) automatic zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 8-0-0, Corner(3) 8-0-0 to 11-0-0, Exterior(2) 14-0-0 to 20-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) 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.
  - 3) TCLL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
  - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 1-4-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) A plate rating reduction of 20% has been applied for the green lumber members.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 16 except (jt=lb) 31=121, 18=121.
  - 12) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

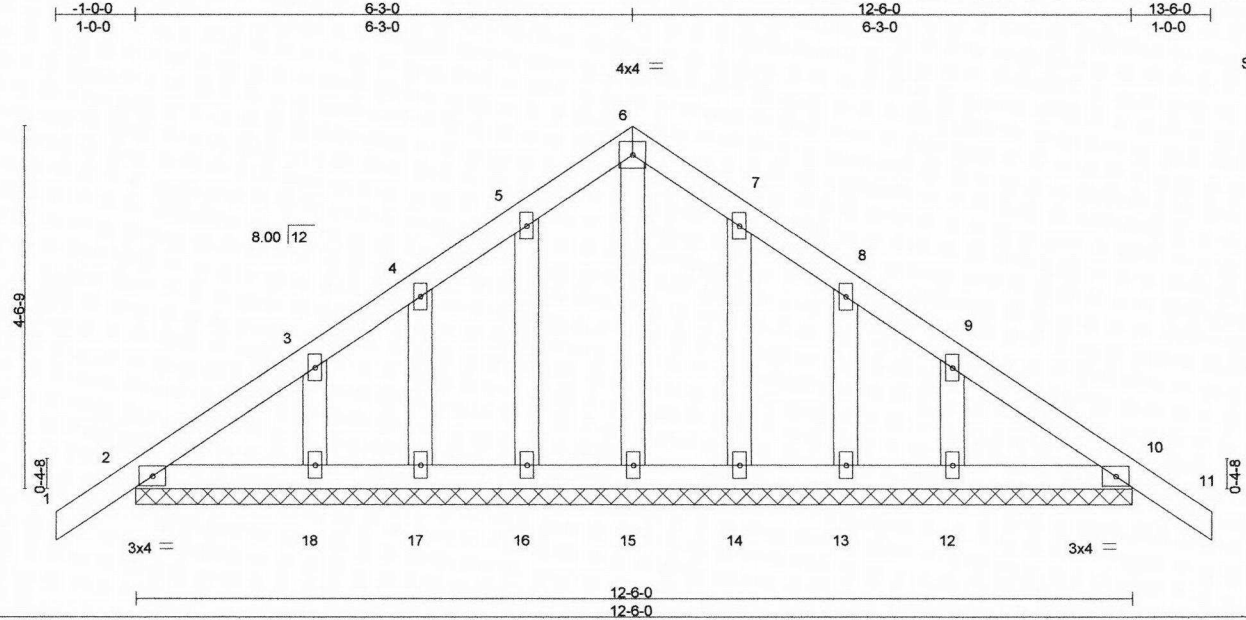
City of Portland  
REVIEWED FOR CODE COMPLIANCE  
APR 26 2018  
Permit Number



EXPIRES: 12/31/2017  
May 30, 2017

Job B1701644	Truss B01	Truss Type GABLE	Qty 1	Ply 1	DK Homes K3247594
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ProBuild Beaverton Truss, Beaverton, OR 97007  
 7 640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:56 2017 Page 1  
 ID:DjKklw\_csBnsESTnLVN55?zBeiX-4\_2G0mHnqtTA\_jjQvcJHrb\_cc1vuvQjCavUo8CzBcdz



<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0 (Roof Snow=25.0) TCDL 7.0 BCLL 0.0 * BCDL 10.0	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2015/TPI2014	TC 0.08 BC 0.04 WB 0.03 (Matrix)	in (loc) l/defl L/d Vert(LL) 0.00 11 n/r 90 Vert(CT) 0.00 11 n/r 120 Horz(CT) 0.00 10 n/a n/a	MT20	220/195
				Weight: 65 lb	FT = 10%

**LUMBER-**  
 TOP CHORD 2x4 DF No.1&Btr G  
 BOT CHORD 2x4 DF No.1&Btr G  
 OTHERS 2x4 DF Std G

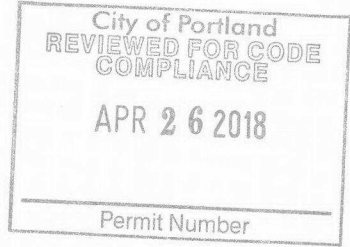
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

**REACTIONS.** All bearings 12-6-0.  
 (lb) - Max Horz 2=139(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12  
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) automatic zone and C-C Corner(3) -1-0-0 to 2-3-0, Exterior(2) 2-3-0 to 3-3-0, Corner(3) 3-3-0 to 6-3-0, Exterior(2) 9-3-0 to 10-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) 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.
  - 3) TCLL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
  - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 1-4-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) A plate rating reduction of 20% has been applied for the green lumber members.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 18, 14, 13, 12.
  - 12) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

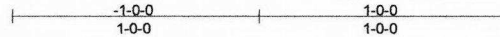


EXPIRES: 12/31/2017  
 May 30, 2017

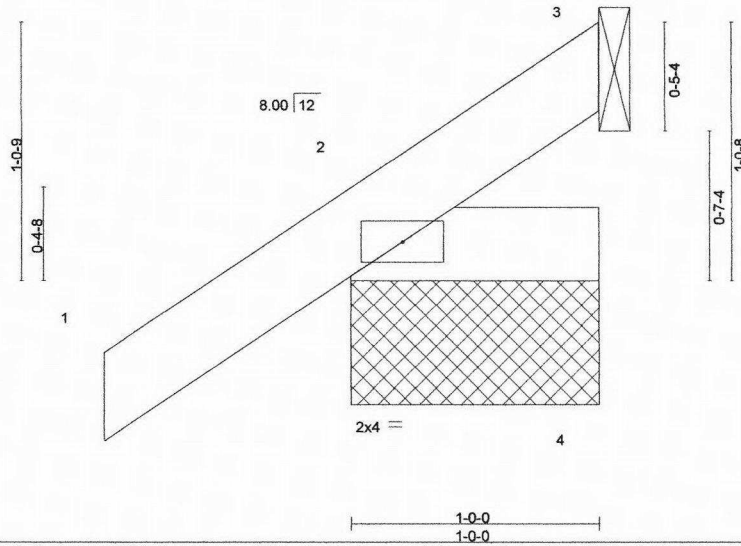
Job B1701644	Truss D01	Truss Type GABLE	Qty 2	Ply 1	DK Homes K3247595
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ProBuild Beaverton Truss, Beaverton, OR 97007

7 640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:57 2017 Page 1  
ID:DjKklw\_csBnsESINLVN557zBeix-YAceD6IPbB71ctldSjQWNpXmRRFetUlpZELgezBody



Scale = 1:9.1



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.14 BC 0.01 WB 0.00 (Matrix)	in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(CT) -0.00 2 >999 180 Horz(CT) -0.00 3 n/a n/a	MT20	220/195
TCDL 7.0	Rep Stress Incr YES			Weight: 5 lb	FT = 10%
BCLL 0.0 *	Code IBC2015/TPI2014				
BCDL 10.0					

**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr G  
BOT CHORD 2x4 DF Std G

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purfins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=200/1-0-0, 4=7/1-0-0, 3=66/Mechanical  
Max Horz 2=55(LC 10)  
Max Uplift 2=82(LC 10), 3=150(LC 16)  
Max Grav 2=318(LC 16), 4=13(LC 3), 3=26(LC 14)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) automatic zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) TCLL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) A plate rating reduction of 20% has been applied for the green lumber members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 3=150.
- 11) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.



EXPIRES: 12/31/2017  
May 30, 2017

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

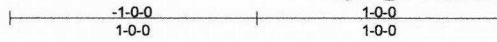


250 Klug Circle  
Corona, CA 92880

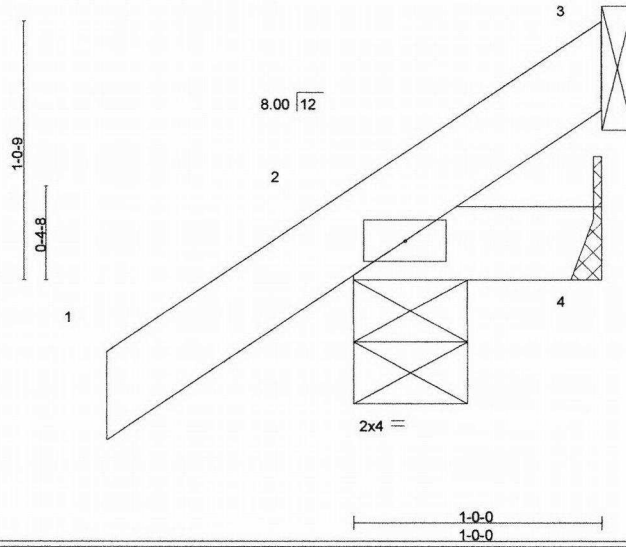
Job B1701644	Truss D02	Truss Type Monopitch	Qty 1	Ply 1	DK Homes Job Reference (optional)	K3247596
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ProBuild Beaverton Truss, Beaverton, oR 97007

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:57 2017 Page 1  
ID:DjKklw\_csBnsESiNLVN55?zBeiX-YAceD6IPbB?1ctldSJqWnpXnFRFXetUlpZELgezBcdy



Scale = 1:9.1



<b>LOADING (psf)</b> TCLL 25.0 (Roof Snow=25.0) TCDL 7.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2015/TPI2014	<b>CSI.</b> TC 0.09 BC 0.02 WB 0.00 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(CT) -0.00 2 >999 180 Horz(CT) -0.00 3 n/a n/a	<b>PLATES GRIP</b> MT20 220/195  Weight: 5 lb FT = 10%
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**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr G  
BOT CHORD 2x4 DF Std G

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

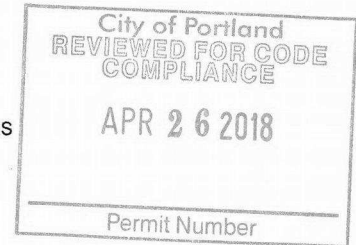
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=144/0-5-8, 4=9/Mechanical, 3=-7/Mechanical  
Max Horz 2=55(LC 10)  
Max Uplift 2=-56(LC 10), 3=-60(LC 16)  
Max Grav 2=201(LC 16), 4=19(LC 3), 3=11(LC 6)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) automatic zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) A plate rating reduction of 20% has been applied for the green lumber members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
- 10) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.



EXPIRES: 12/31/2017  
May 30, 2017

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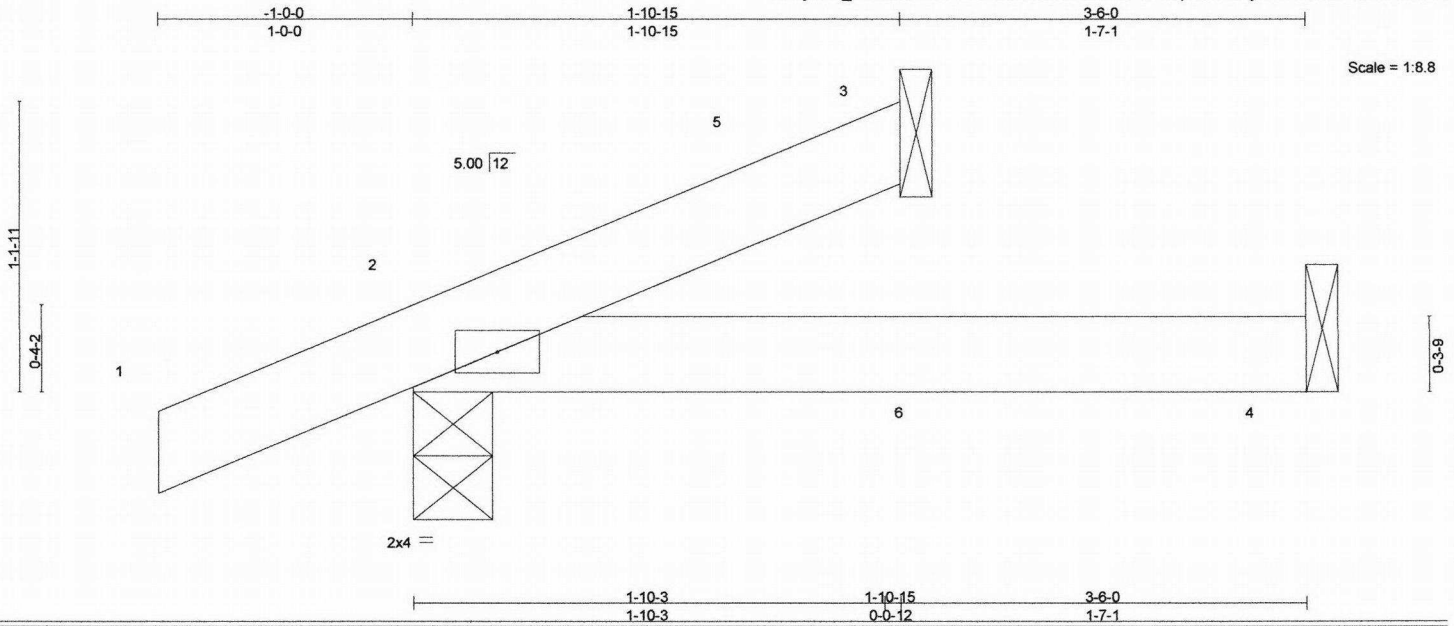




Job	Truss	Truss Type	Qty	Ply	DK Homes	K3247597
B1701644	JC01	Jack-Open Girder	1	1		

ProBuild Beaverton Truss, Beaverton, oR 97007

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:58 2017 Page 1  
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<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.12 BC 0.26 WB 0.00 (Matrix)	in (loc) l/defl L/d Vert(LL) -0.01 2-4 >999 240 Vert(CT) -0.02 2-4 >999 180 Horz(CT) -0.00 3 n/a n/a	MT20	220/195
TCDL 7.0	Rep Stress Incr NO			Weight: 9 lb	FT = 10%
BCLL 0.0 *	Code IBC2015/TPI2014				
BCDL 10.0					

**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr G  
BOT CHORD 2x4 DF Std G

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 3=29/Mechanical, 2=186/0-3-12, 4=42/Mechanical  
Max Horz 2=51(LC 10)  
Max Uplift 3=-33(LC 16), 2=-57(LC 6)  
Max Grav 3=30(LC 17), 2=221(LC 16), 4=85(LC 5)

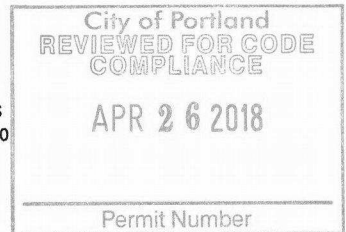
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCCL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 10) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 8 lb down at 2-0-12, and 19 lb down at 3-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-64, 2-4=-20  
Concentrated Loads (lb)  
Vert: 4=-10(B)



EXPIRES: 12/31/2017  
May 30, 2017

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Job B1701644	Truss JC02	Truss Type Monopitch	Qty 3	Ply 1	DK Homes K3247598
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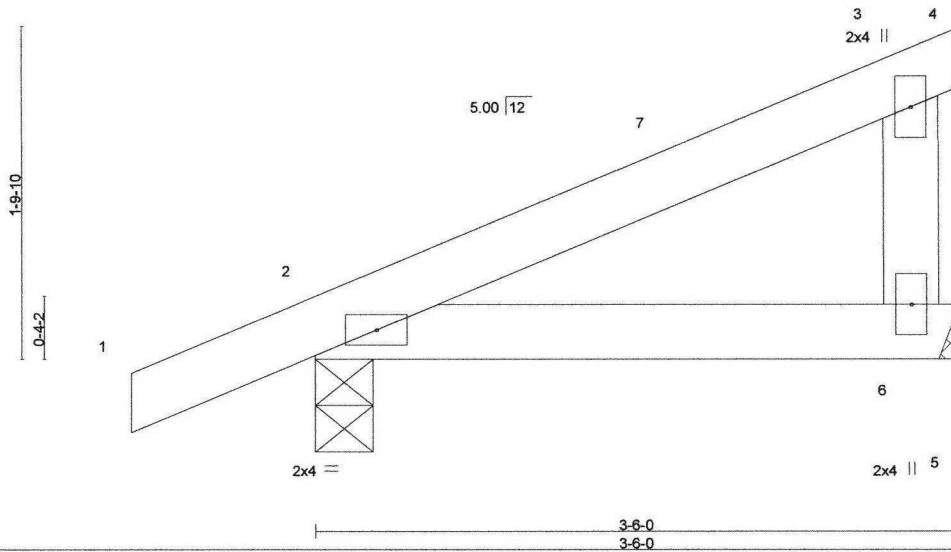
ProBuild Beaverton Truss, Beaverton, oR 97007

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:58 2017 Page 1

ID:DjKklw\_csBnsESiNLVN55?zBeiX-0NA0RSJ1LV7uE1tp00Lw04ytrXrNKHu1DzuD4zBcdx



Scale = 1:12.1



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0 (Roof Snow=25.0)	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.01 2-6 >999 240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.02 2-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014	(Matrix)		Weight: 13 lb	FT = 10%

**LUMBER-**  
 TOP CHORD 2x4 DF No.1&Btr G  
 BOT CHORD 2x4 DF Std G  
 WEBS 2x4 DF Std G

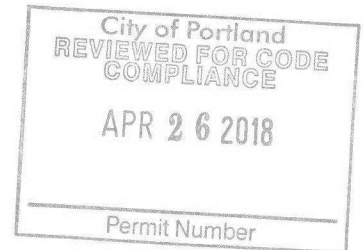
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=216/0-3-12, 6=139/Mechanical  
 Max Horz 2=81(LC 12)  
 Max Uplift 2=-63(LC 12), 6=-51(LC 12)  
 Max Grav 2=218(LC 19), 6=149(LC 19)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) automatic zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCCL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) A plate rating reduction of 20% has been applied for the green lumber members.
  - 8) Refer to girder(s) for truss to truss connections.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
  - 10) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.



EXPIRES: 12/31/2017  
 May 30, 2017

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.**

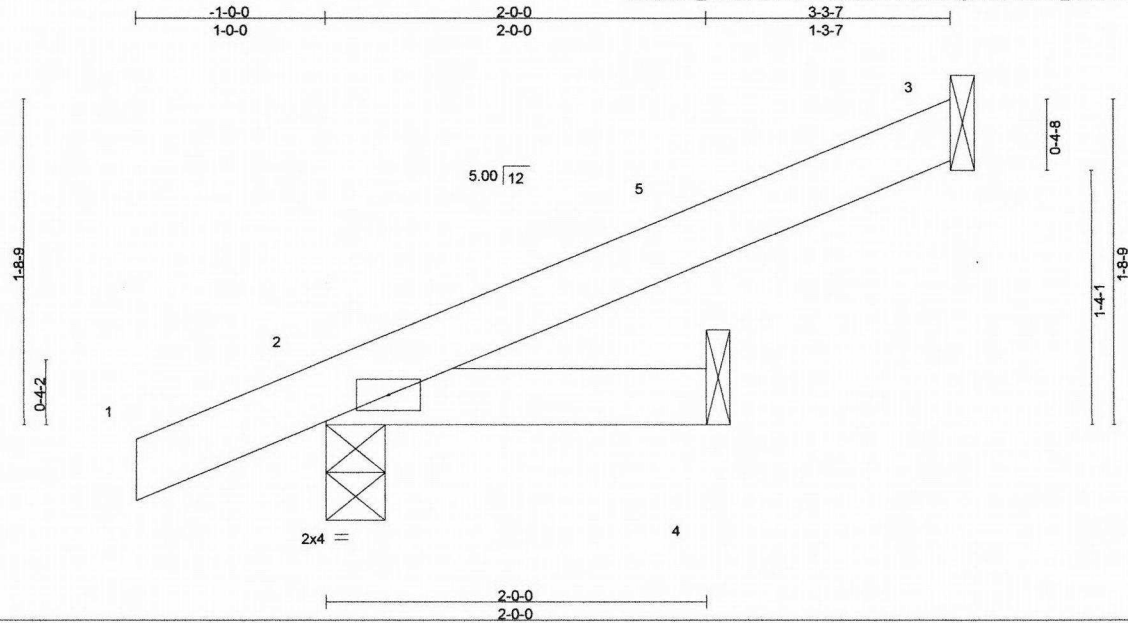
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250 Klug Circle  
 Corona, CA 92880

Job B1701644	Truss SC02	Truss Type Jack-Open	Qty 1	Ply 1	DK Homes K3247599
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ProBuild Beaverton Truss, Beaverton, OR 97007 7,640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:59 2017 Page 1  
 ID:DjKklw\_csBnsESiNLVN55?zBeiX-UzkPeoJg6oFirAS?aks\_SEC7UFv26nz2GtjSIWzBcdw



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	220/195
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.08	Vert(LL) -0.00 2 >999 240		
TCDL 7.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 2-4 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	(Matrix)	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 9 lb	FT = 10%

**LUMBER-**  
 TOP CHORD 2x4 DF No. 1&Btr G  
 BOT CHORD 2x4 DF Std G

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purfins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

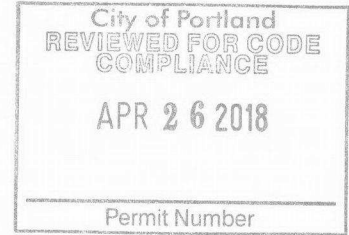
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 3=92/Mechanical, 2=198/0-3-12, 4=20/Mechanical  
 Max Horz 2=76(LC 12)  
 Max Uplift 3=66(LC 12), 2=-70(LC 12)  
 Max Grav 3=99(LC 19), 2=200(LC 19), 4=39(LC 5)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 10) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.



EXPIRES: 12/31/2017  
 May 30, 2017

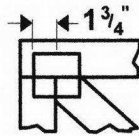
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

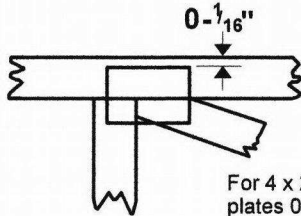


# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

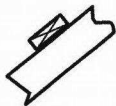
\* Plate location details available in MiTek 20/20 software or upon request.

## PLATE SIZE

4 x 4

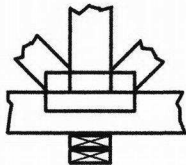
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING

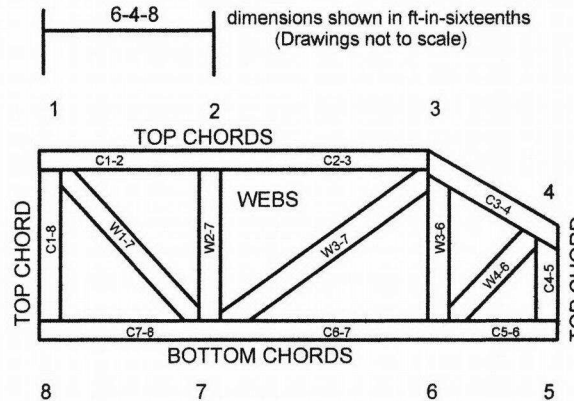


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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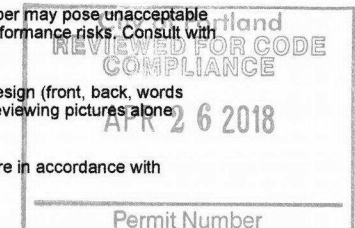


MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

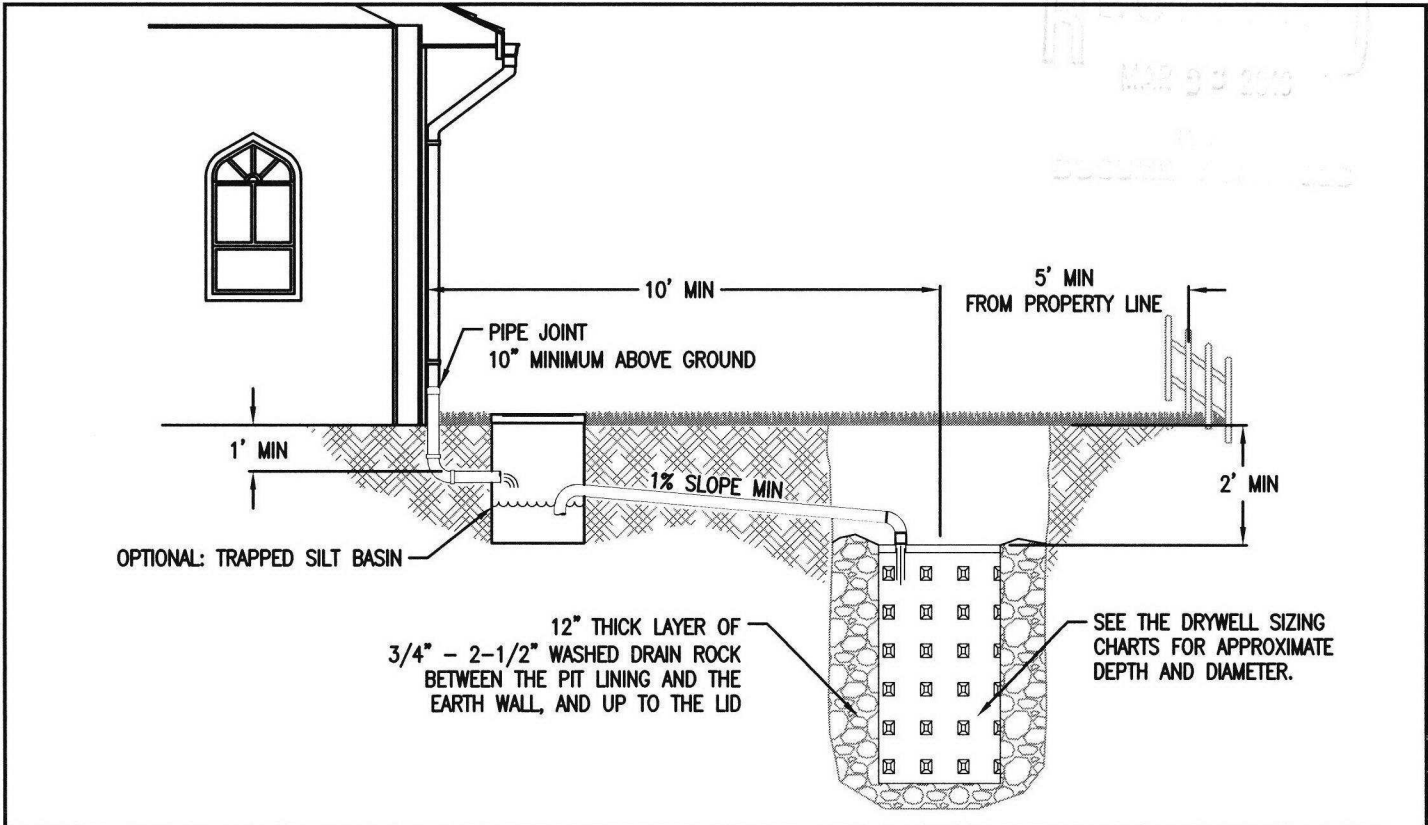
# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.



REVISION  
 MAR 9 2018  
 DRAWING NO. 280



1. Detail intended as an example. Detail must match design report.
2. Provide protection from all vehicle traffic, equipment staging, and foot traffic in proposed infiltration areas prior to, during and after construction.
3. Siting Criteria: Gravelly sand, gravelly loamy sand or other equally porous material must occur in a continuous 5' deep stratum within 12' of the ground surface. Drywell must not be placed where base of facility has less than 5' of separation to water table.
4. Sizing: Exhibit 2-36 is used as guidance to size drywells. Sizing per stormwater report.
5. Top of drywell must be below lowest finished floor.
6. Setbacks: Measured from center of drywell, must be 10' from foundations, 5' from property lines, and 20' from cesspools. Drywells sized using the performance approach that use a significantly sized rock gallery must measure setbacks from the edge of the rock gallery or get approval from geotechnical and structural engineers to place drywell closer to the foundation.
7. Piping: must be ABS Sch.40, cast iron, or PVC Sch.40. 3" pipe required for up to 1,500 sq ft of impervious area, otherwise 4" min. Piping must have 1% grade and follow the Uniform Plumbing Code.

8. Trapped Silt Basin: Optional for roof runoff or pedestrian only paved areas.

City of Portland  
 PERMITS FOR CODE  
 COMPLIANCE  
 APR 26 2018  
 Permit Number

**Exhibit 2-36: Drywell Sizing Table**

Once approval has been given by BES for onsite infiltration of stormwater, the following chart shall be used as a general guide for sizing. Sizing per stormwater report.

IMPERVIOUS Area (sq-ft)	28" Diameter Drywell Depth				48" Diameter Drywell Depth			
	Drywell Depth				Drywell Depth			
	5'	10'	15'	20'	5'	10'	15'	20'
1000								
2000								
3000								
4000								
5000								
6000								
7000								
8000								
9000								
10000								

- DRAWING NOT TO SCALE -

**STORMWATER MANAGEMENT TYPICAL DETAILS**

- Performance Design Approach -  
 Drywell

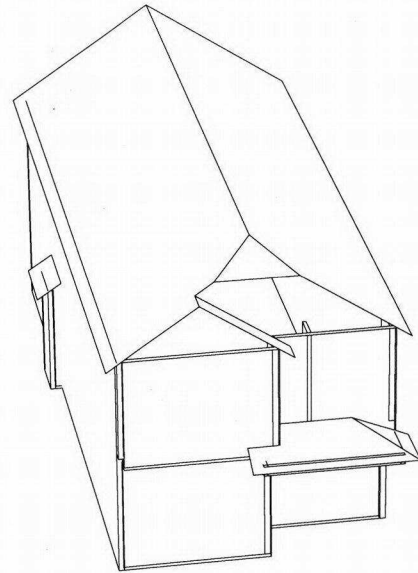


Bureau of Environmental Services



NUMBER  
 SW-280  
 7-1-16

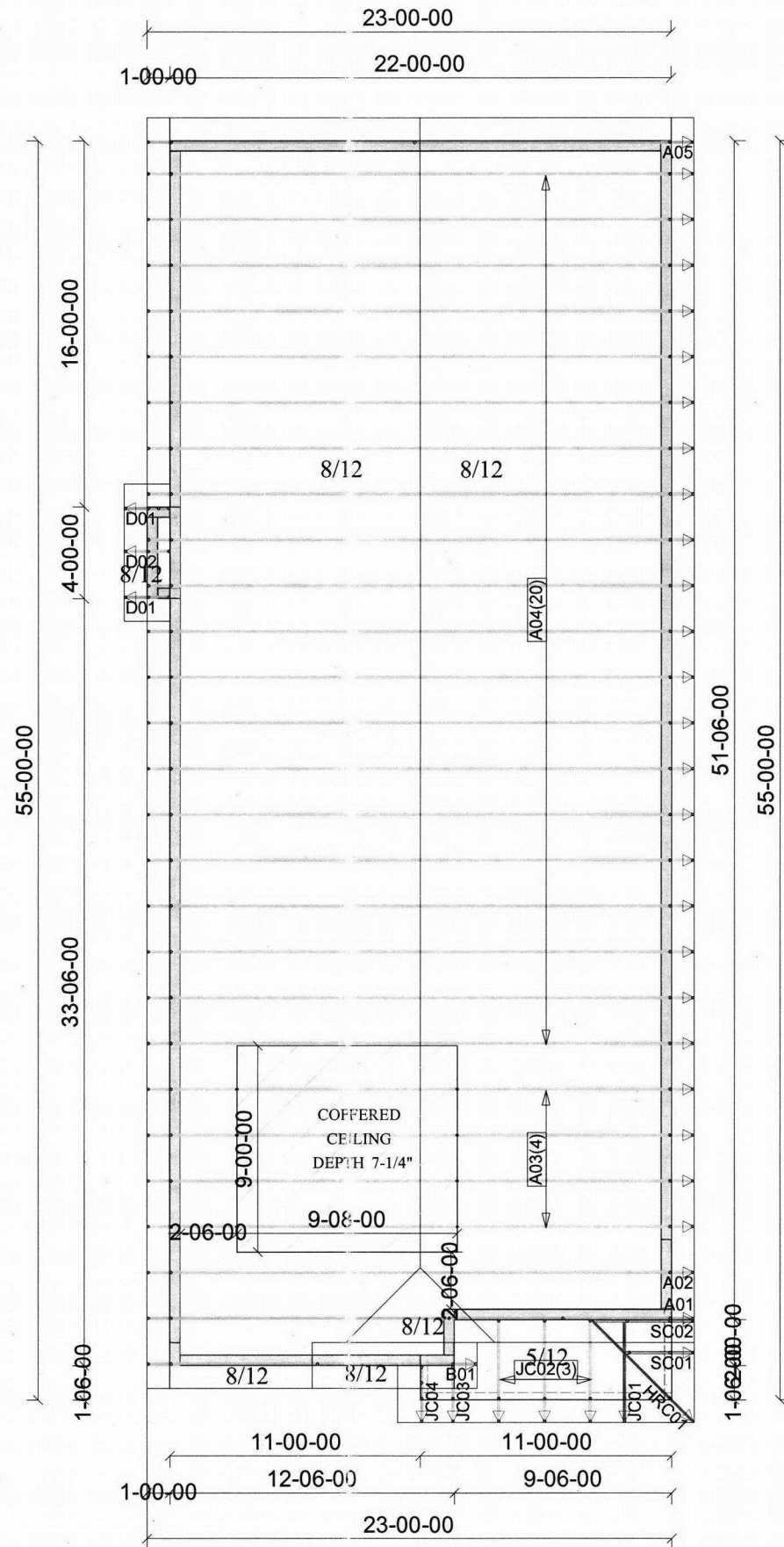
TRIANGLE SHAPE  $\triangle$  INDICATES LEFT END ON LAYOUT AND TRUSS DRAWING ON STAMPED ENGINEERING PAGE



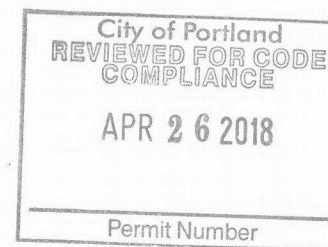
Garage Left

Use LUS24 Hangers UNO

TC LL = 25  
 TC DL = 7  
 BC LL = 0  
 BC DL = 10  
 Total Load = 42  
 Wind Speed = 140 mph  
 Exposure = B  
 Roof pitch = 5/12, 8/12  
 Overhang = 12"



DO NOT CUT, DRILL, NOTCH OR MODIFY TRUSS MEMBERS WITHOUT PRIOR APPROVAL FROM PROBUILD TRUSS



5350 SW 107th Ave  
 Beaverton, OR 97005  
 Phone: 971-371-5971

**PROBUILD** Builders  
 BUILDER: DK Homes  
 PROJECT: P1980  
 ADDRESS: , Portland, OR

DATE: 05/29/2017  
 SCALE: NTS  
 SALESMAN: Jody Platta  
 DESIGNER: Marielka Villegas

QUOTE #: B1701644  
 JOB #:

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See the individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.