

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
TOTAL LIVING AREA:	1,980 SF

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

'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'

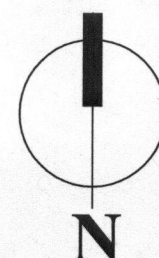


APPROVED
 Urban Forestry

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

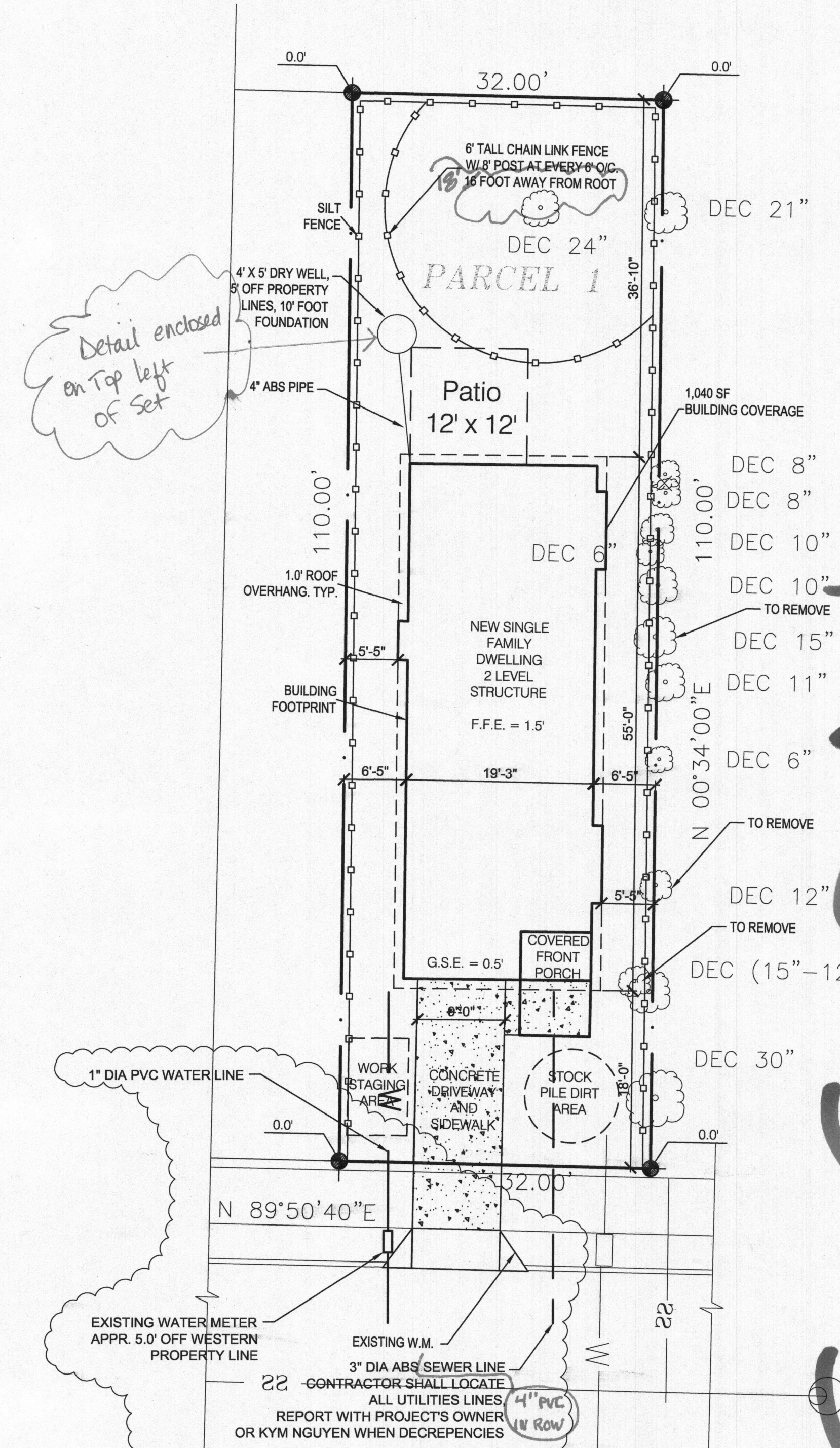
PAGE #	DESCRIPTION
AO	SITE PLAN
CS	COVER SHEET
A1	EXTERIOR BUILDING ELEVATIONS
A2	FIRST FLOOR PLAN/2ND FLOOR FRAMING
A3	PLAN & SECOND FLOOR PLAN
A4	FOUNDATION PLAN, ROOF PLAN
D1	CROSS SECTION A & B
	INTERIOR STAIR DETAIL, FOOTING DETAIL
	POST & BEAM DETAIL, ALTERNATE BRACING
	FOR 1ST & 2ND FLOOR DETAIL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

City of Portland
 Bureau of
 Development Services
 By: *Duckawa* Date: 4/25/18
 Approved by
 Planning and Zoning Review

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

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RS CS
 47



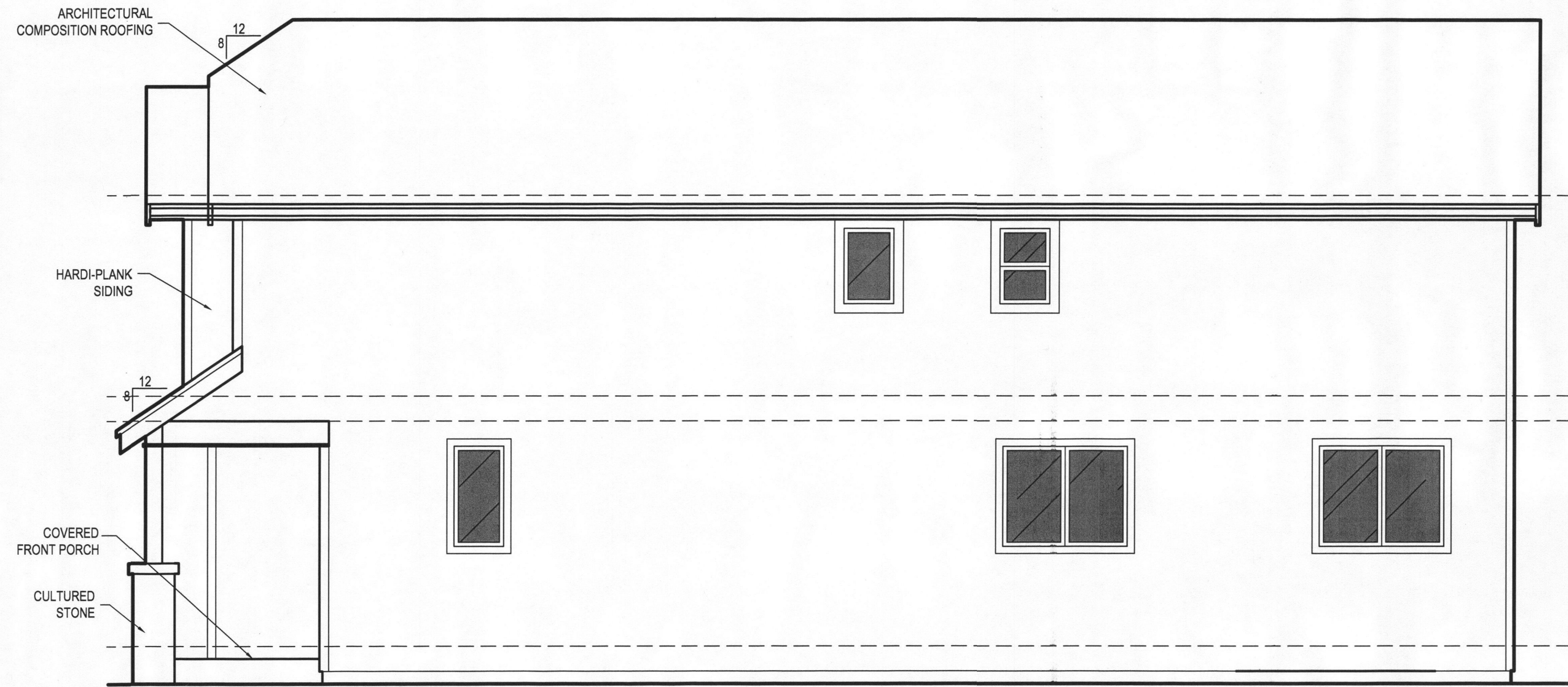
CONCEPT
 Design & Associates
 PO BOX 8464 - PORTLAND - OREGON 97207
 PHONE: 503-515-7418
 www.knstudiopdx.com

COVER SHEET
 17-188547-RS
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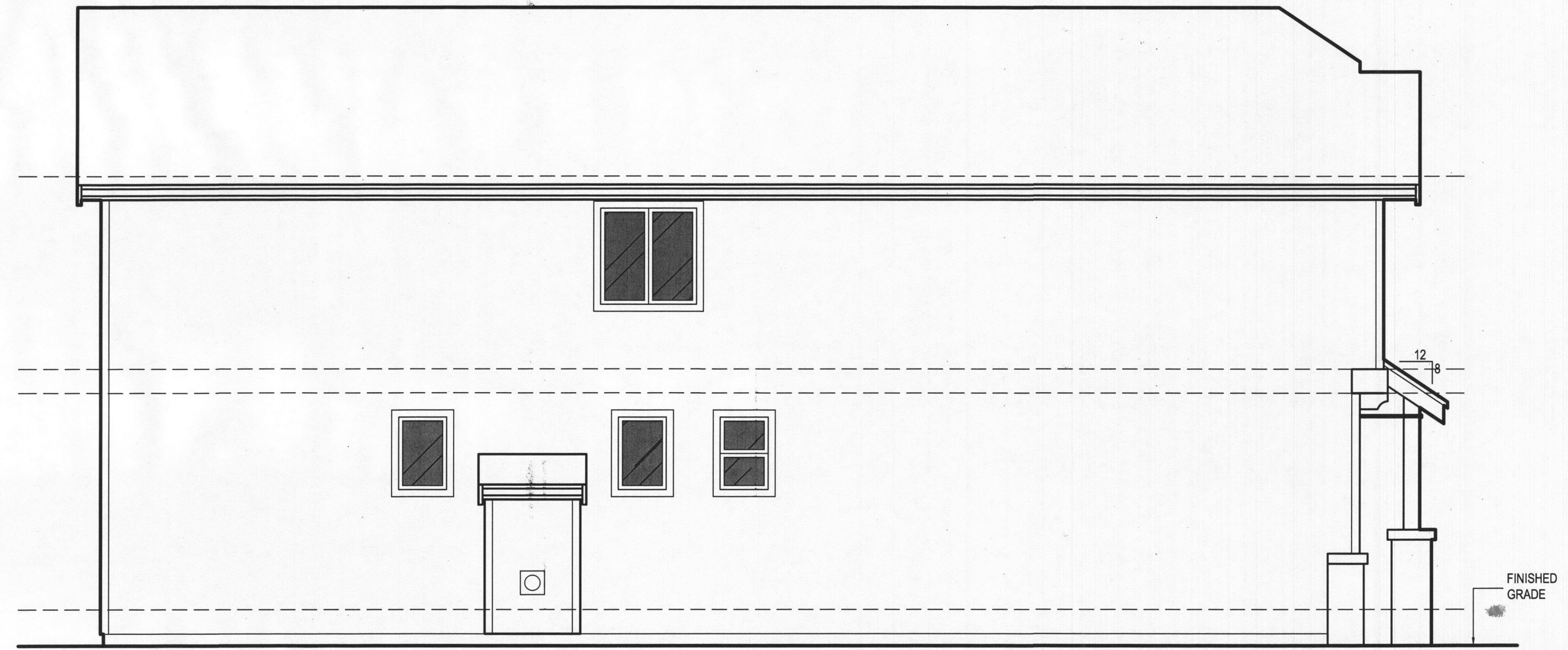
PLAN NUMBER:
 P-1980
 PROJECT NAME:
 SINGLE DWELLING
 PROJECT ADDRESS:
 SE Raymond Ave
 Portland, Or.
 OWNER:
 DK Homes LLC

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

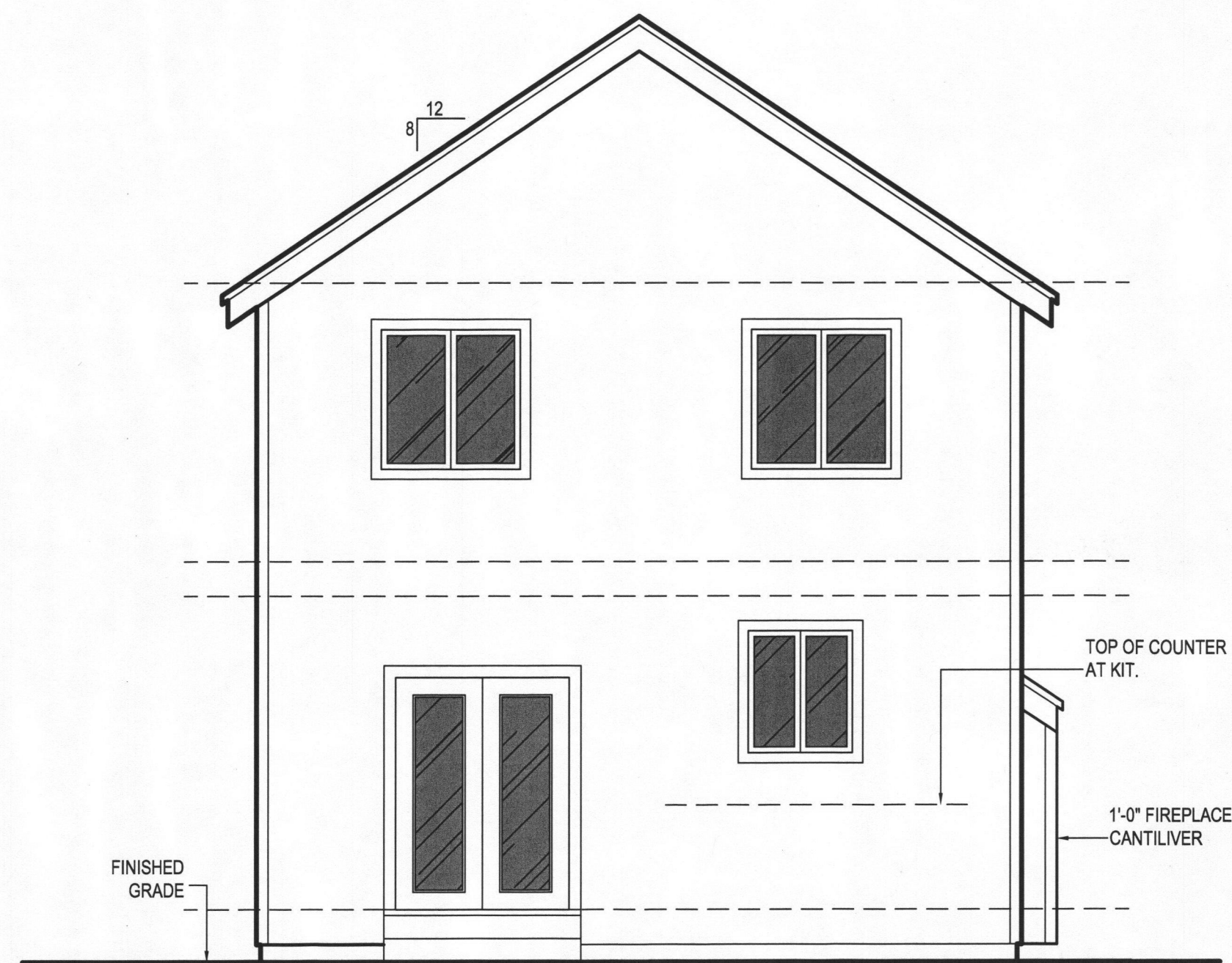
Drawn & Checked By: **KN**
 Project Number: **17-190**
 Issue Date: **6-13-2017**
 Drawing File Name: **P1980PLAN.DWG**
 Sheet Number:



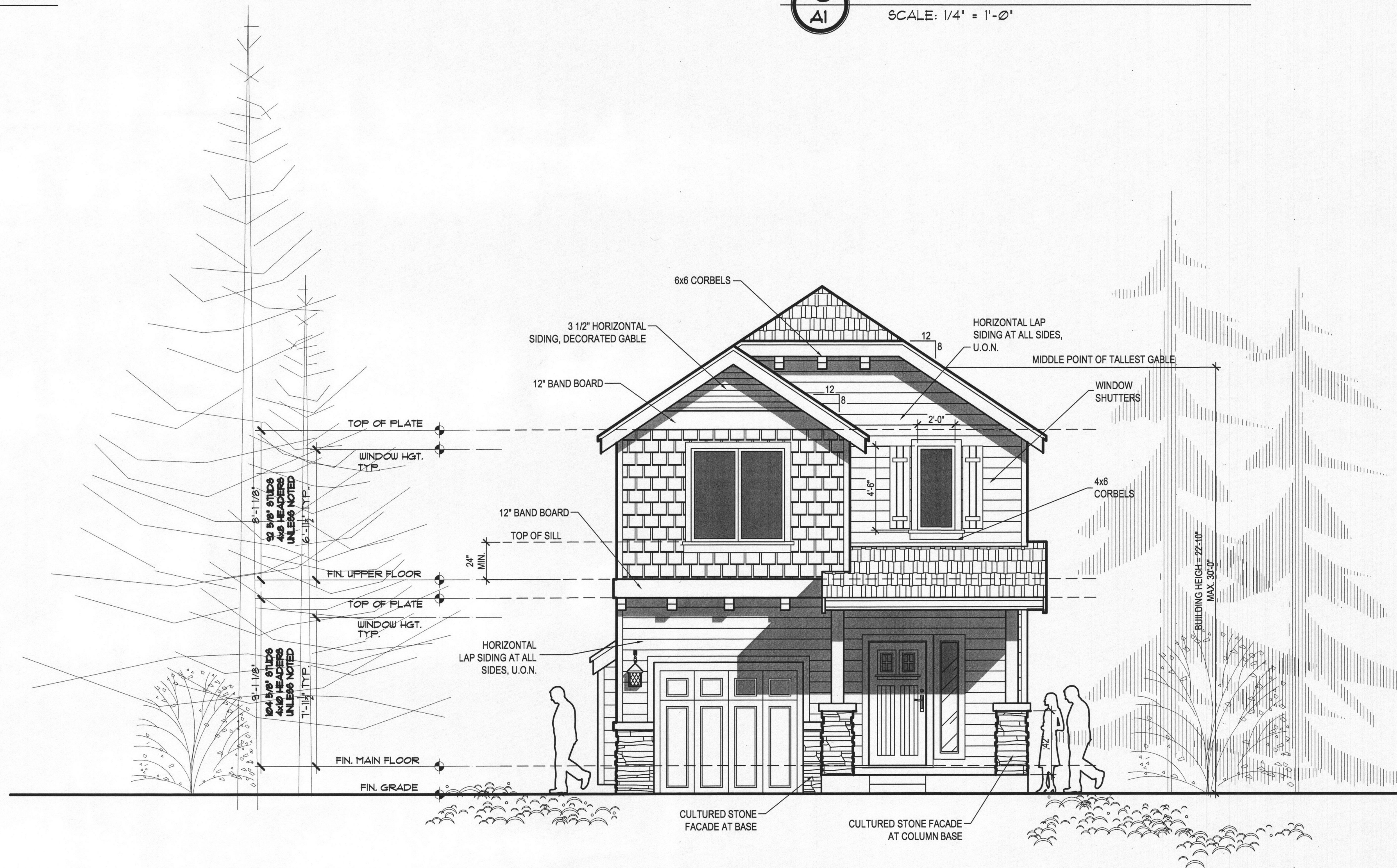
4
AI **Right Side Elevation**
SCALE: 1/4" = 1'-0"



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'-0" Sq. Ft. Window &
Door Area of Street
Facing divided by
44.00% 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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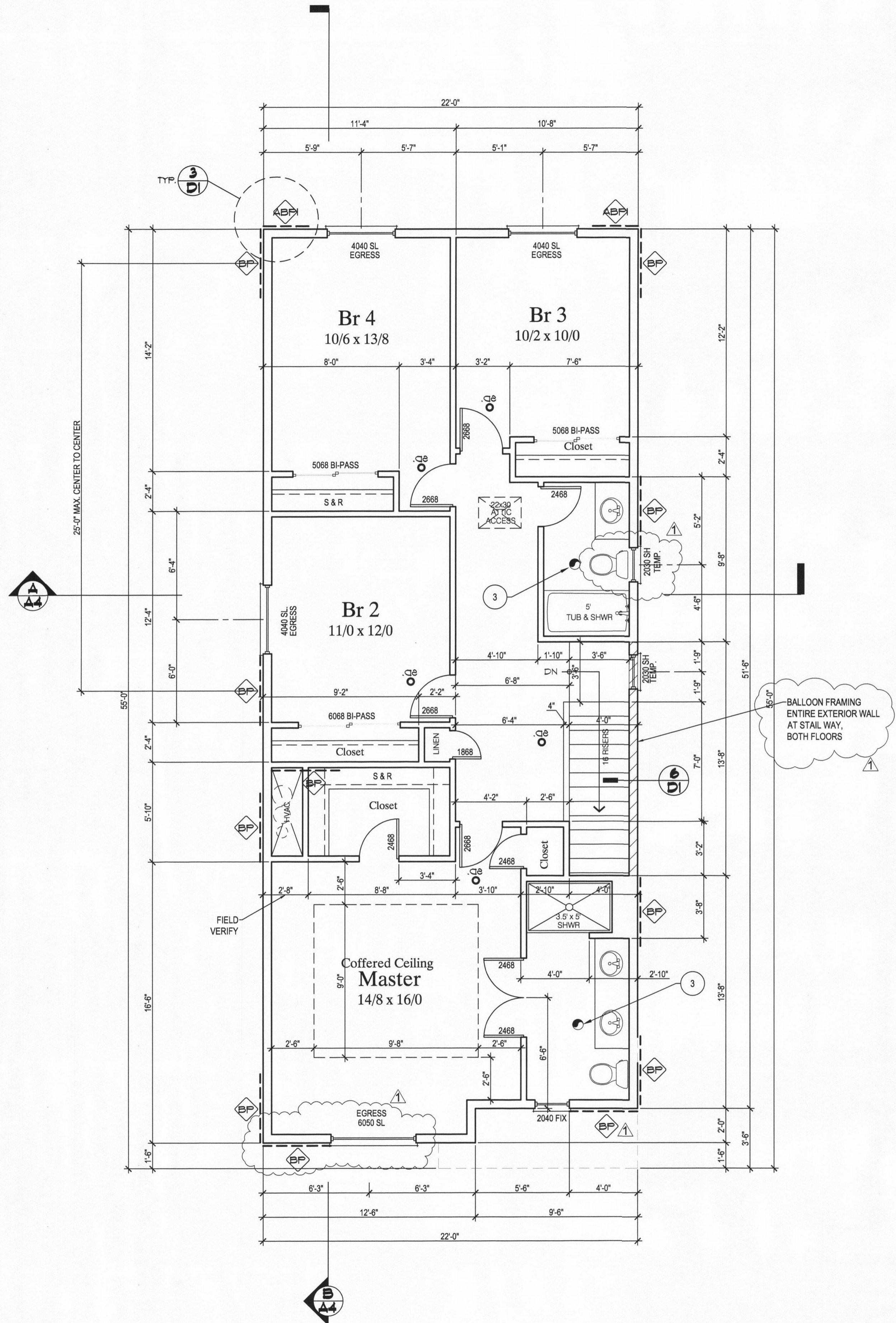
City of Portland
Bureau of
Development Services
By *L. Watkins* Date *4/25/18*
Approved by
Planning and Zoning Review

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

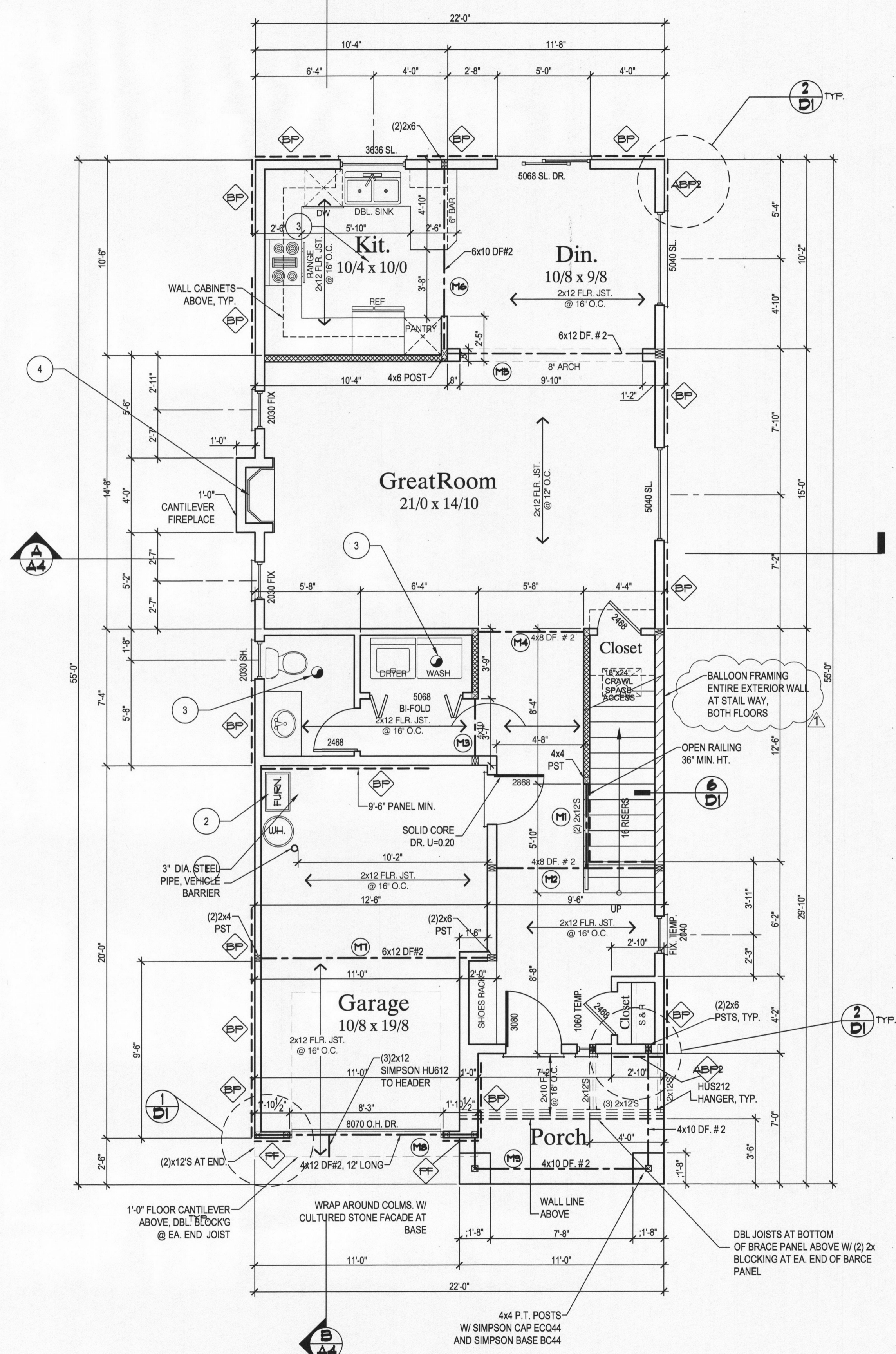
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2
A2
2ND FLOOR PLAN
SCALE: 1/4" = 1'-0"



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
- 110V SMOKE/HEAT DETECTOR W/ BATTERY BACKUP-INNER CONNECT
- CARBON MONOXIDE ALARM SHALL BE INSTALLED IN EACH SLEEPING ROOM OR WITHIN 15 FEET OUT SIDE 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 1 1/2" 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

- HIGH EFFICIENCY HVAC SYSTEM: GAS-FIRED FURNACE BOILER WITH MINIMUM AFUE OF 80%
NOTE: FURNACE LOCATED WITHIN THE BUILDING ENVELOPE SHALL HAVE SEALED COMBUSTION AIR INSTALLED. COMBUSTION AIR SHALL BE DUCTED DIRECTLY FROM THE OUTDOORS.
- WATER HEATER SHALL ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT CAUSE 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.
- VENT BATHS, RANGE HOOD W/ 150 CFM, UTILITY FANS TO OUT SIDE
- BATHROOM FAN W/ MIN. 80 CFM ON TIMER OR HUMIDISTAT, TYP.
- METAL GAS FIREPLACE TO BE INSTALLED FER MANUFACTURES SPECIFICATIONS. PROVIDE OUTSIDE COMBUSTIBLE AIR.
- TOP OF FINISHED SILL @ 24" MIN. TO FINISHED FLOOR AT 2ND LEVEL, TYP.
- PROVIDE STEPS TO FINISHED GRADE, FINISHED PATIO, EQ TREAD W/ MIN. 10" & EQ RISER W/ MAX 7 3/4"
- DOUBLE JOISTS AT END OF BRACE PANEL, TYP.

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Bureau of
Development Services
By L. [Signature] Date 4/25/18
Approved by
Planning and Zoning Review

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

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

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

Revised/Checked
REV: 03-23-2018
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Drawn & Checked By: KN
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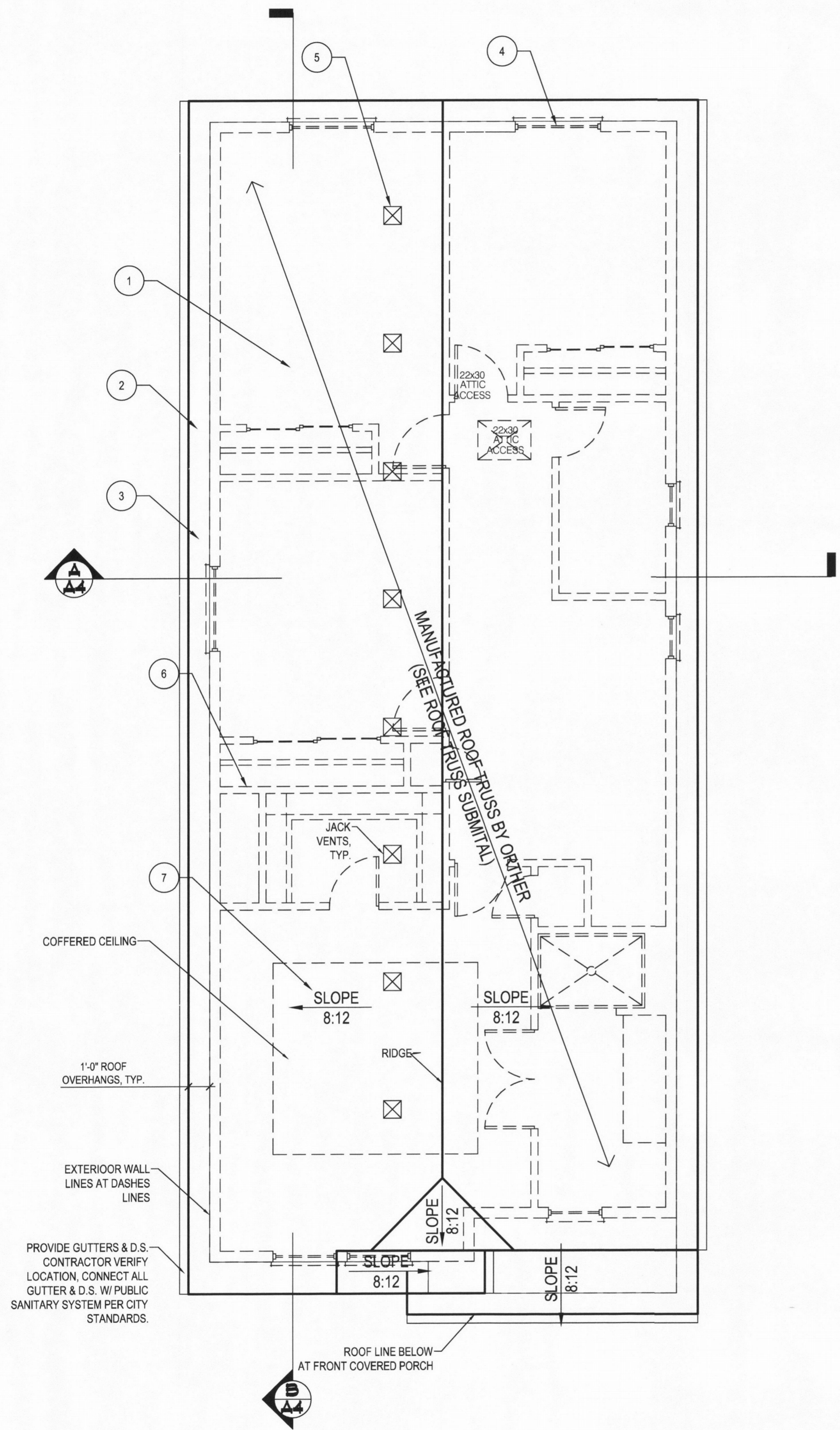
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PHONE: 503-515-7418
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ROOF NOTES & LEGEND:

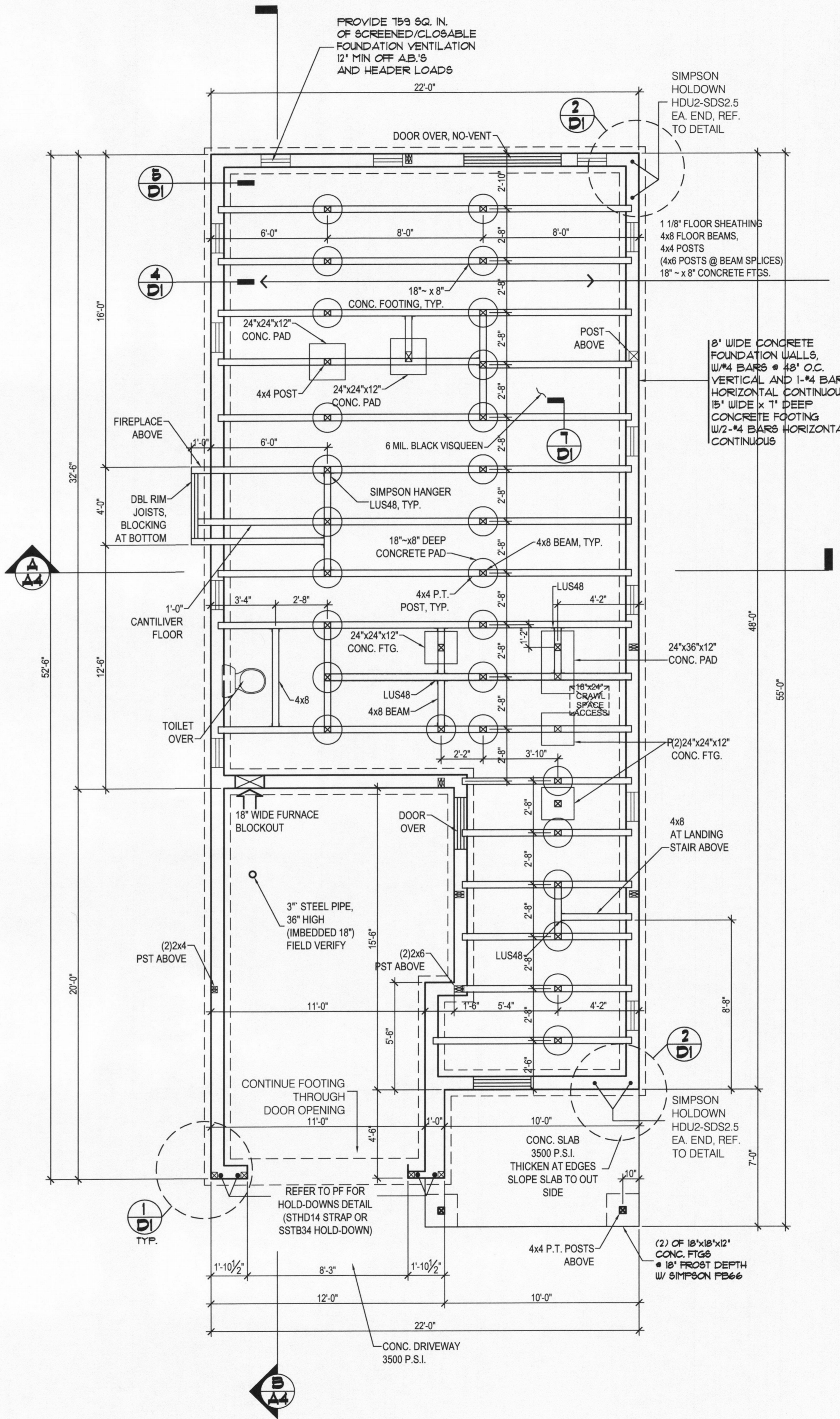
- 1 ARCHITECTURAL COMPOSITION ROOFING, OVER 1 LAYER OF 15# FELT, UNLESS NOTED, 1/2" ROOF SHEATHING
- 2 GALVANIZED GUTTER SYSTEM, (CONSTRUCTION TO SPECIFY & LOCATE DOWNSPOUTS)
- 3 ROOF OVERHANGS: 1'-0" TYP. U.O.N. ROOF PITCH: VARIES, REF. TO ROOF PLAN BARGE RAFTER: 2x8, U.O.N.
- 4 4x8 WINDOW AND DOOR 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 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

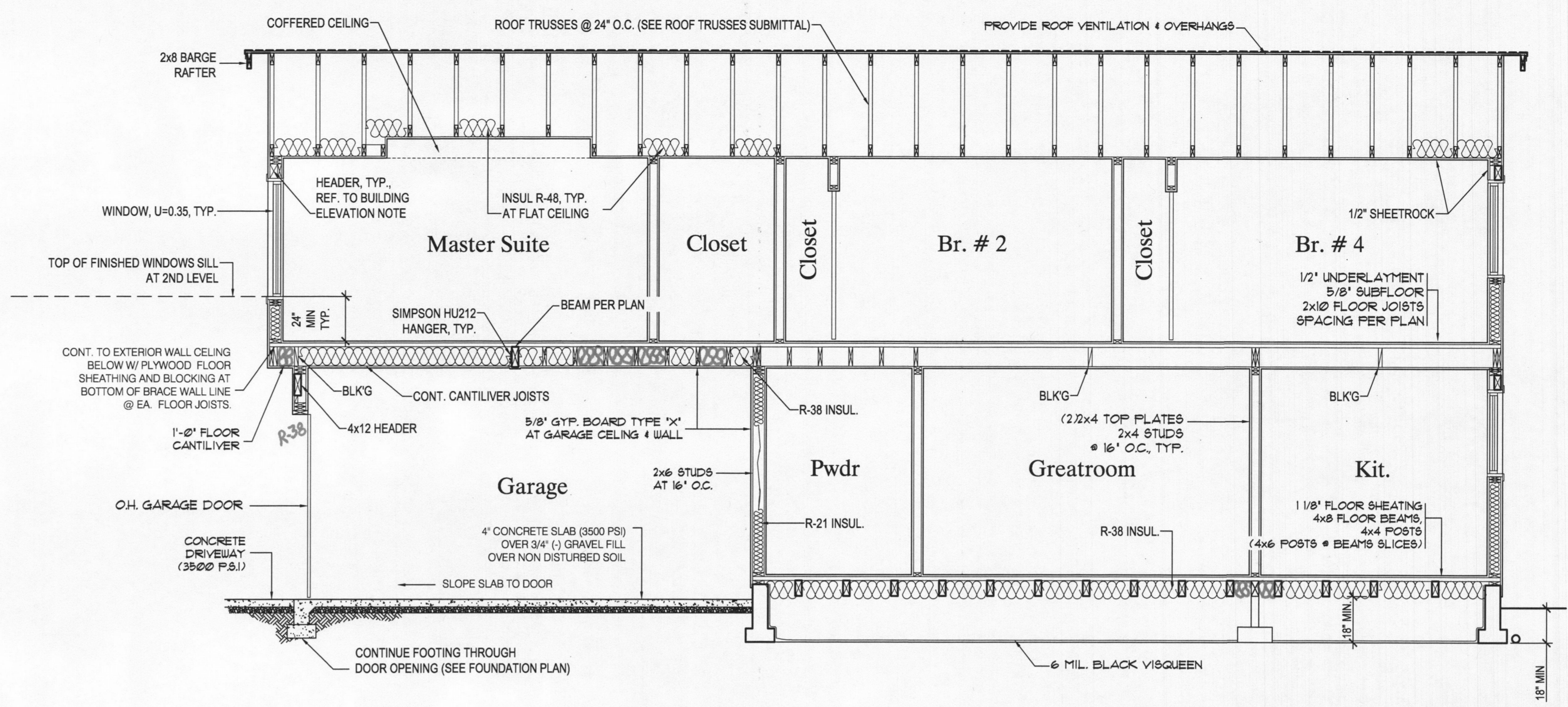
Revisions

NO.	DATE	DESCRIPTION

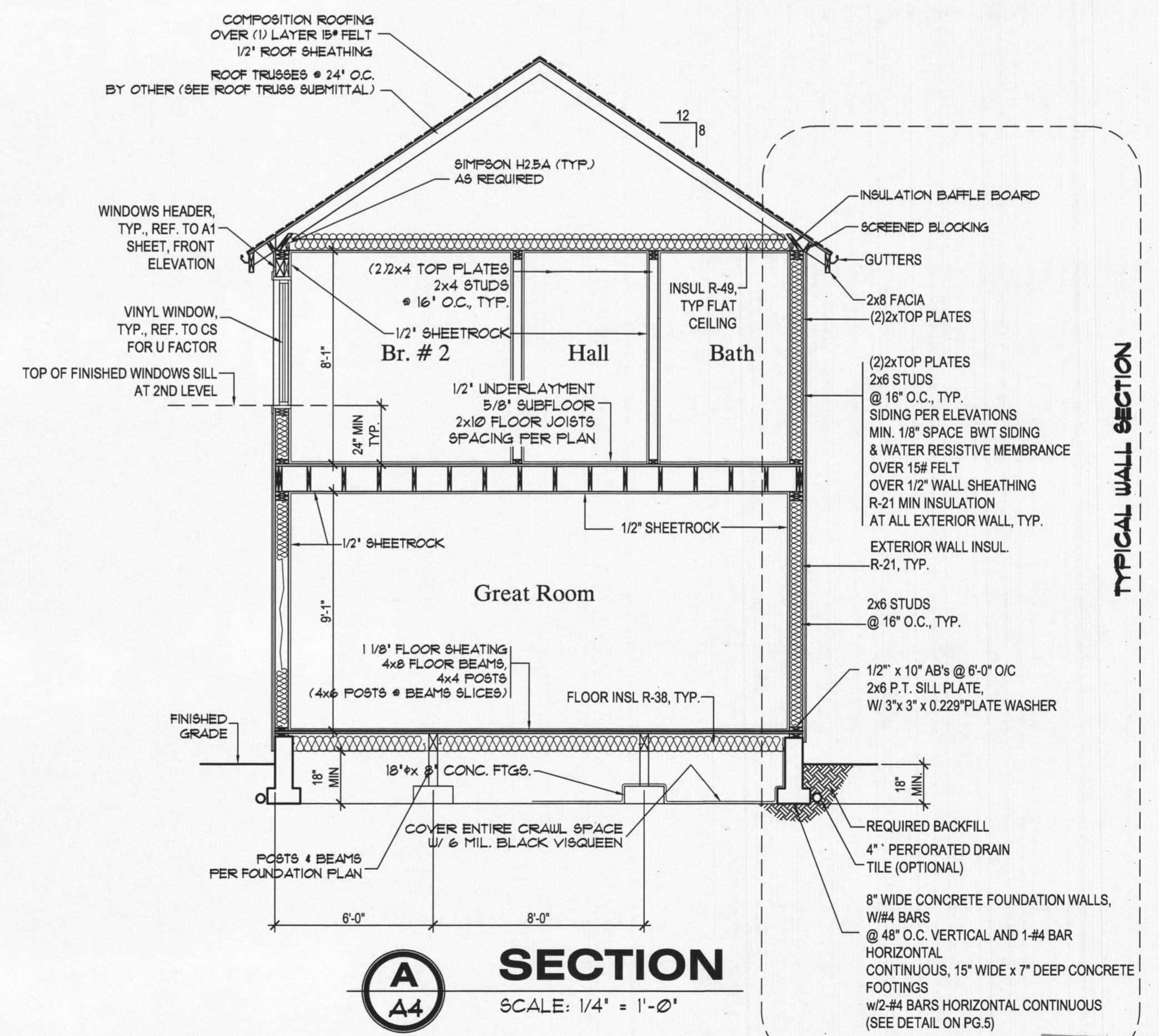
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Project Number: 17-190
Issue Date: 6-13-2017
Drawing File Name: P1980PLAN.DWG
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APR 26 2018
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B
A4 SECTION
SCALE: 1/4" = 1'-0"



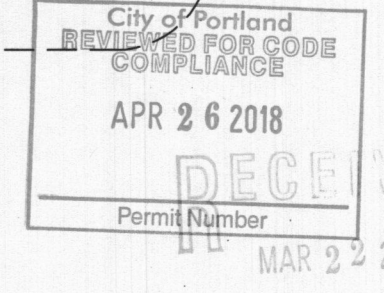
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A4 SECTION
SCALE: 1/4" = 1'-0"

BUILDING CROSS SECTIONS

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

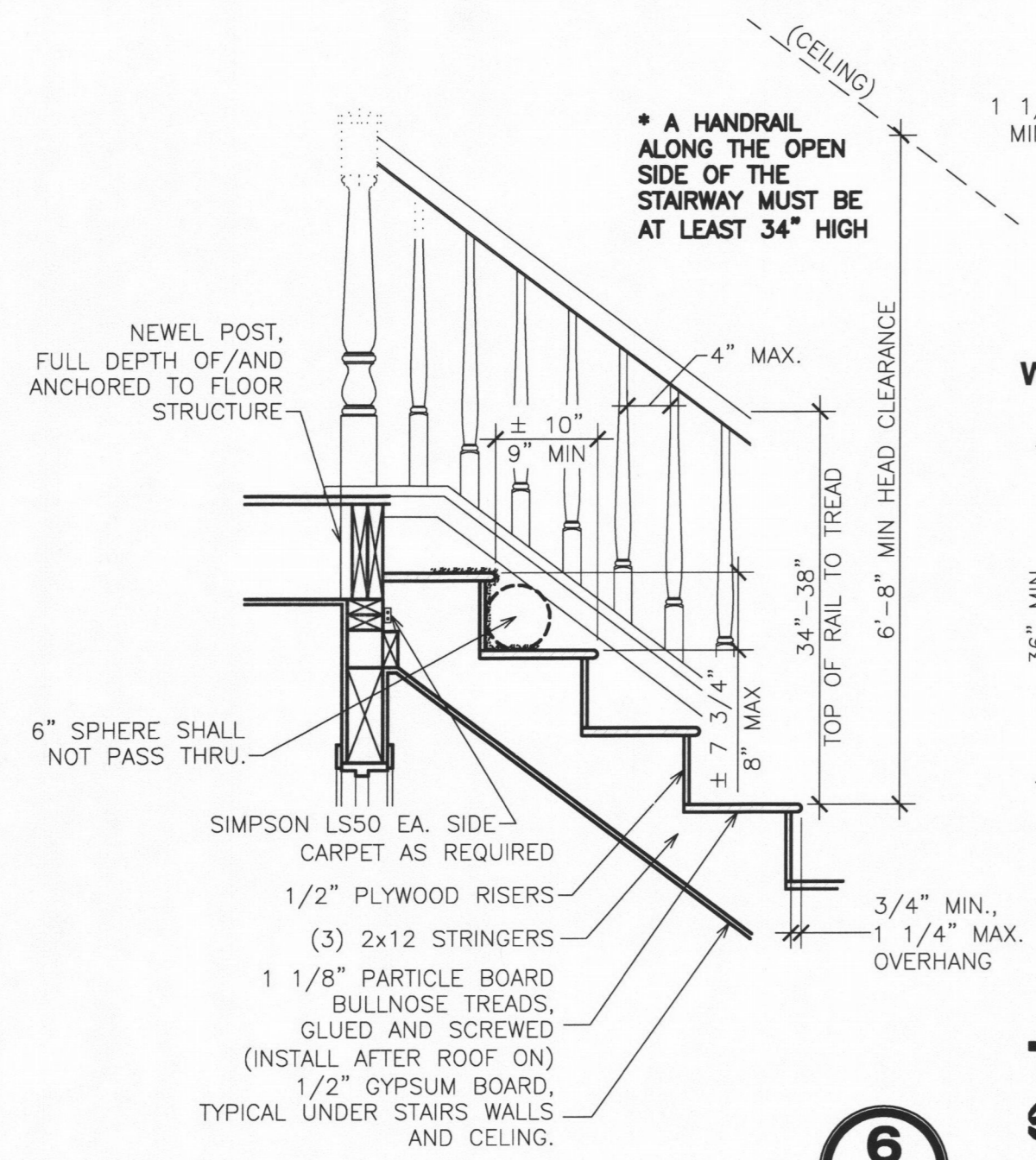
Revisions
REV: 03-23-2018
Per City

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Drawing File Name
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Sheet Number



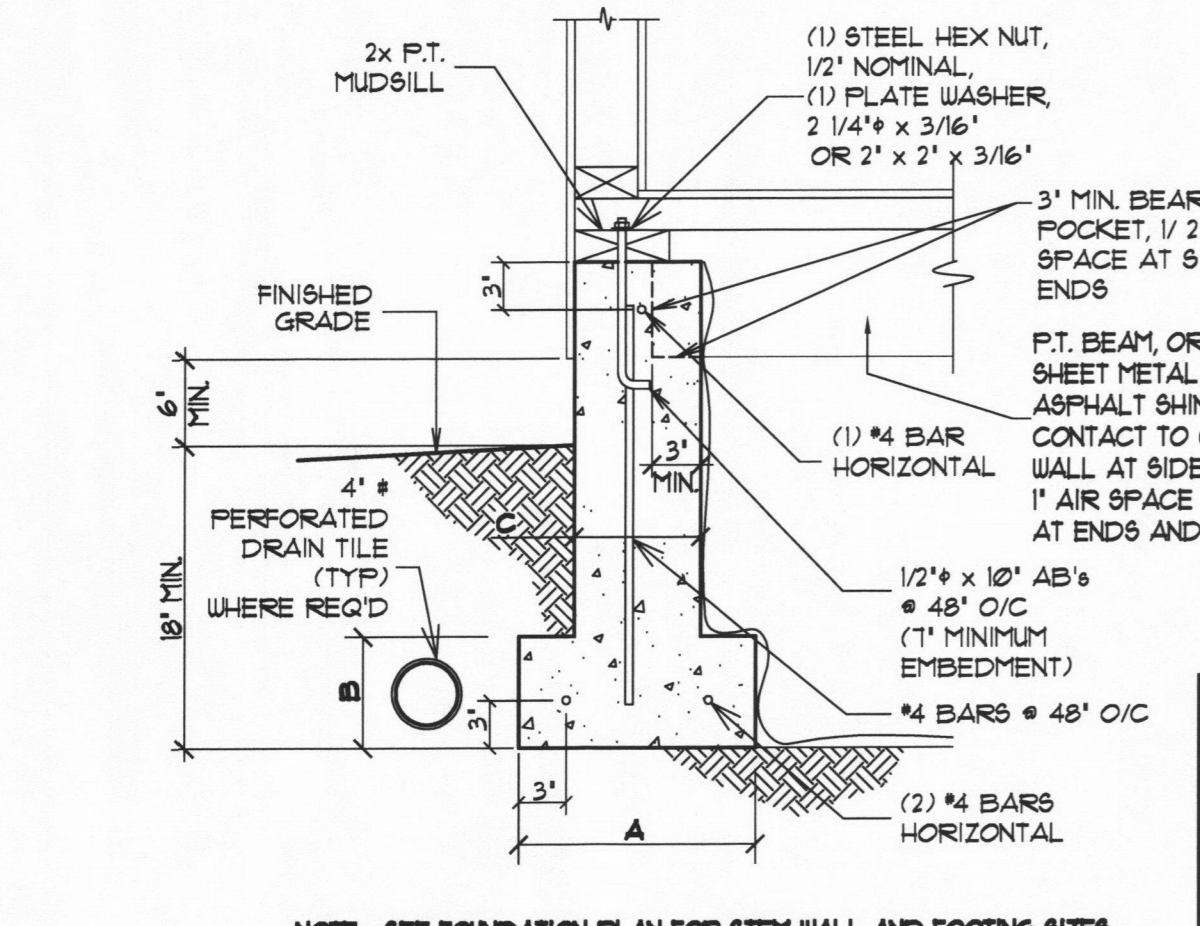
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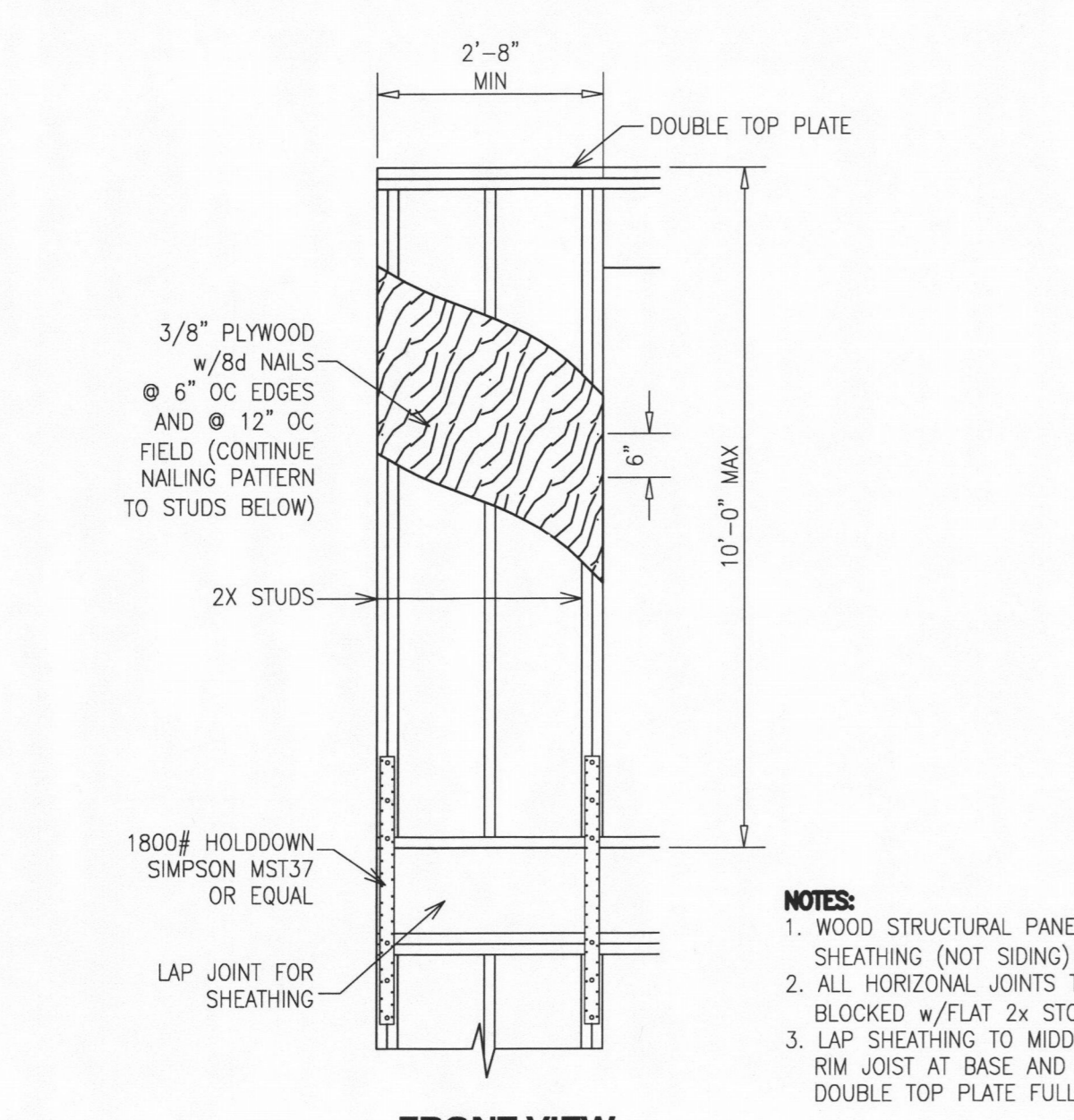
6
DI

TYPICAL INTERIOR STAIR DETAIL
NTS



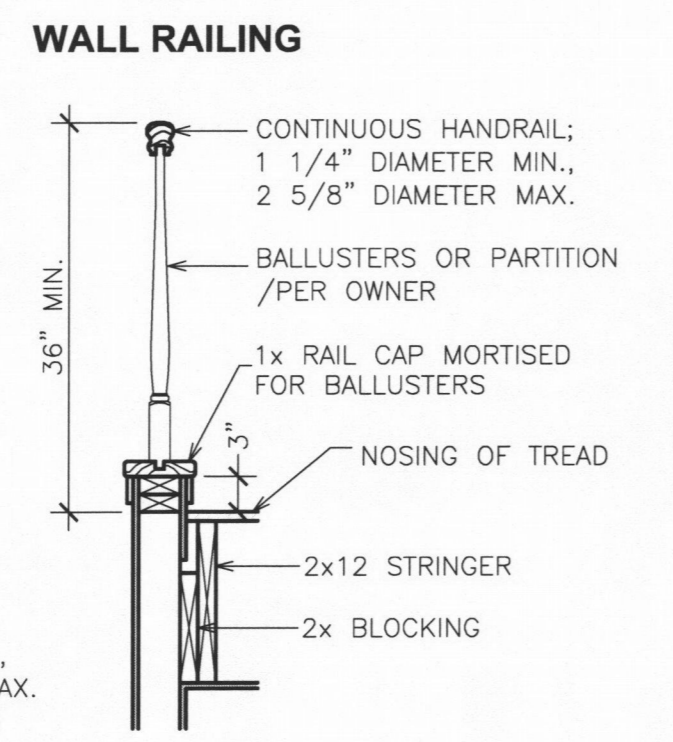
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DI

TYPICAL FOOTING REINFORCEMENT
NTS



3
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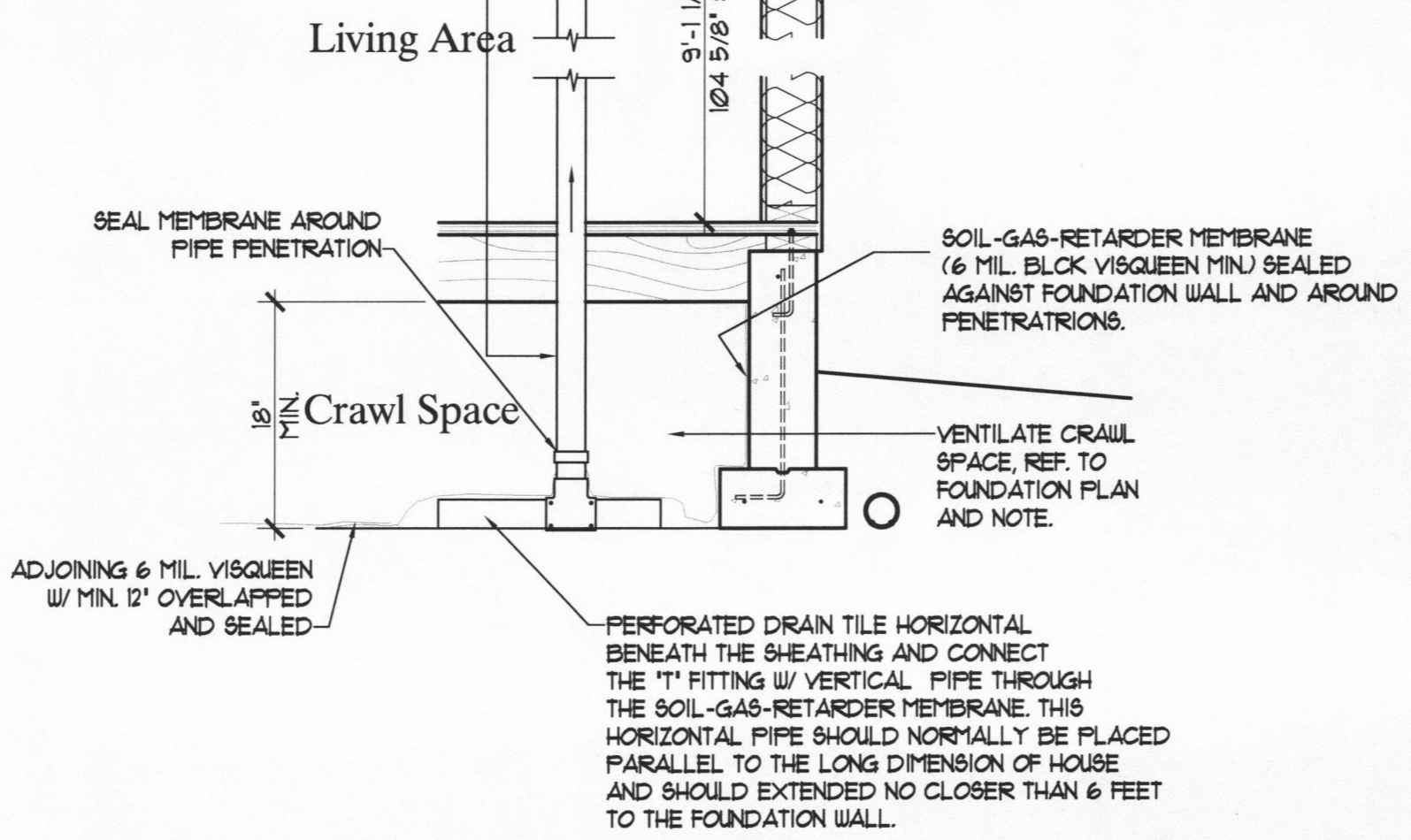
ABP1 DETAIL
NTS



7
DI

Post & Beam Connections At Crawl Space
(OTHER EQUIVALENT METHODS OK)

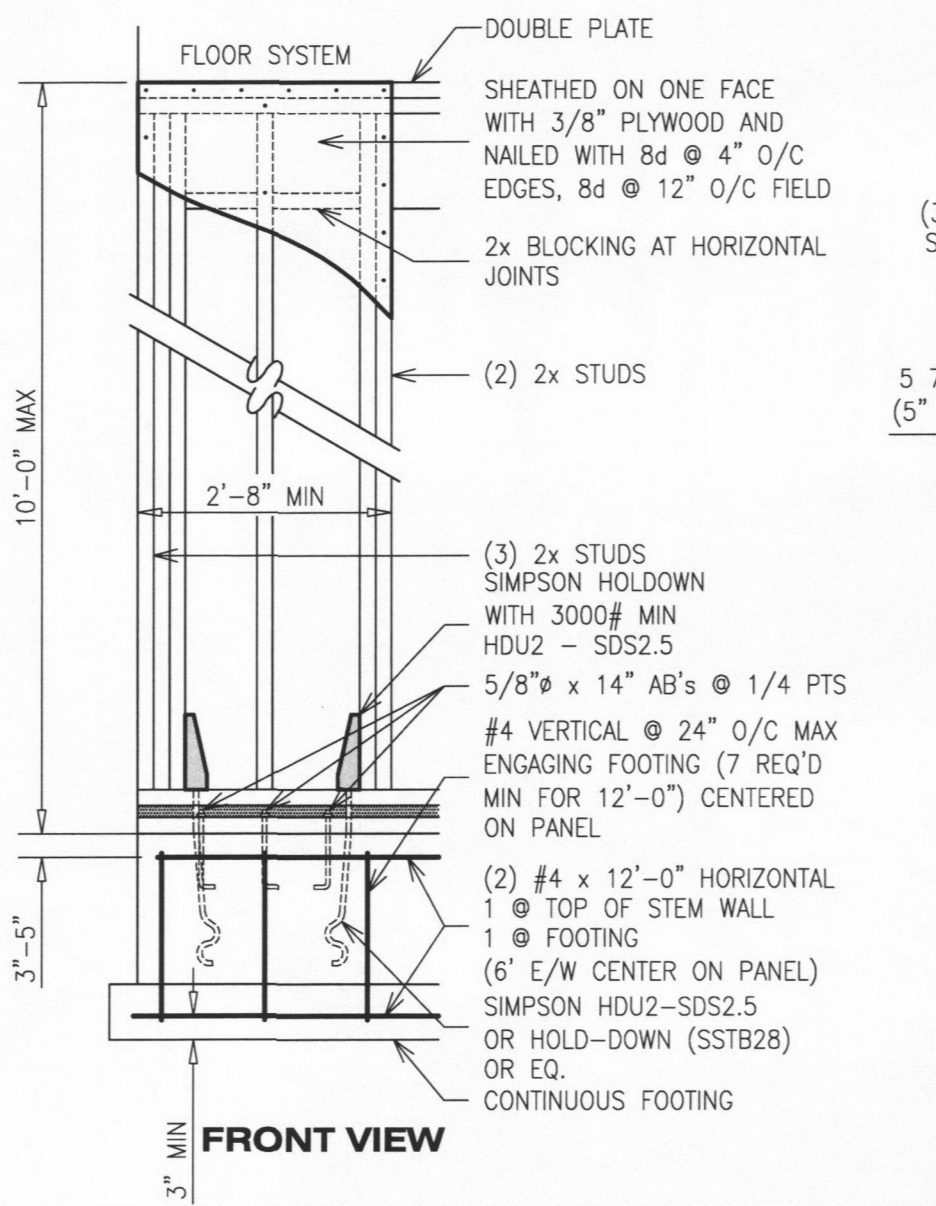
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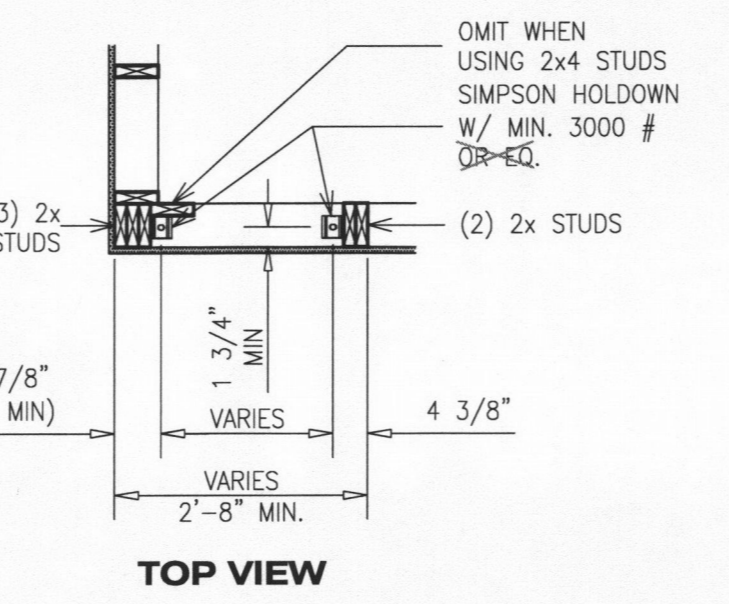
RADON CONTROL DETAIL
NTS

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

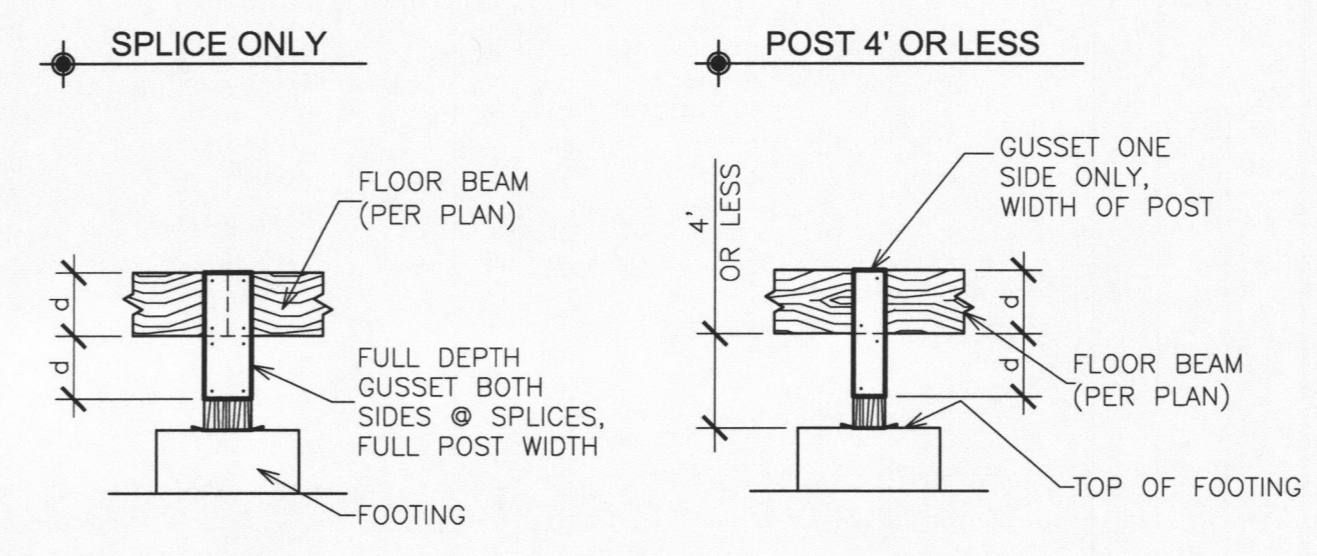


2
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ABP2 DETAIL
NTS



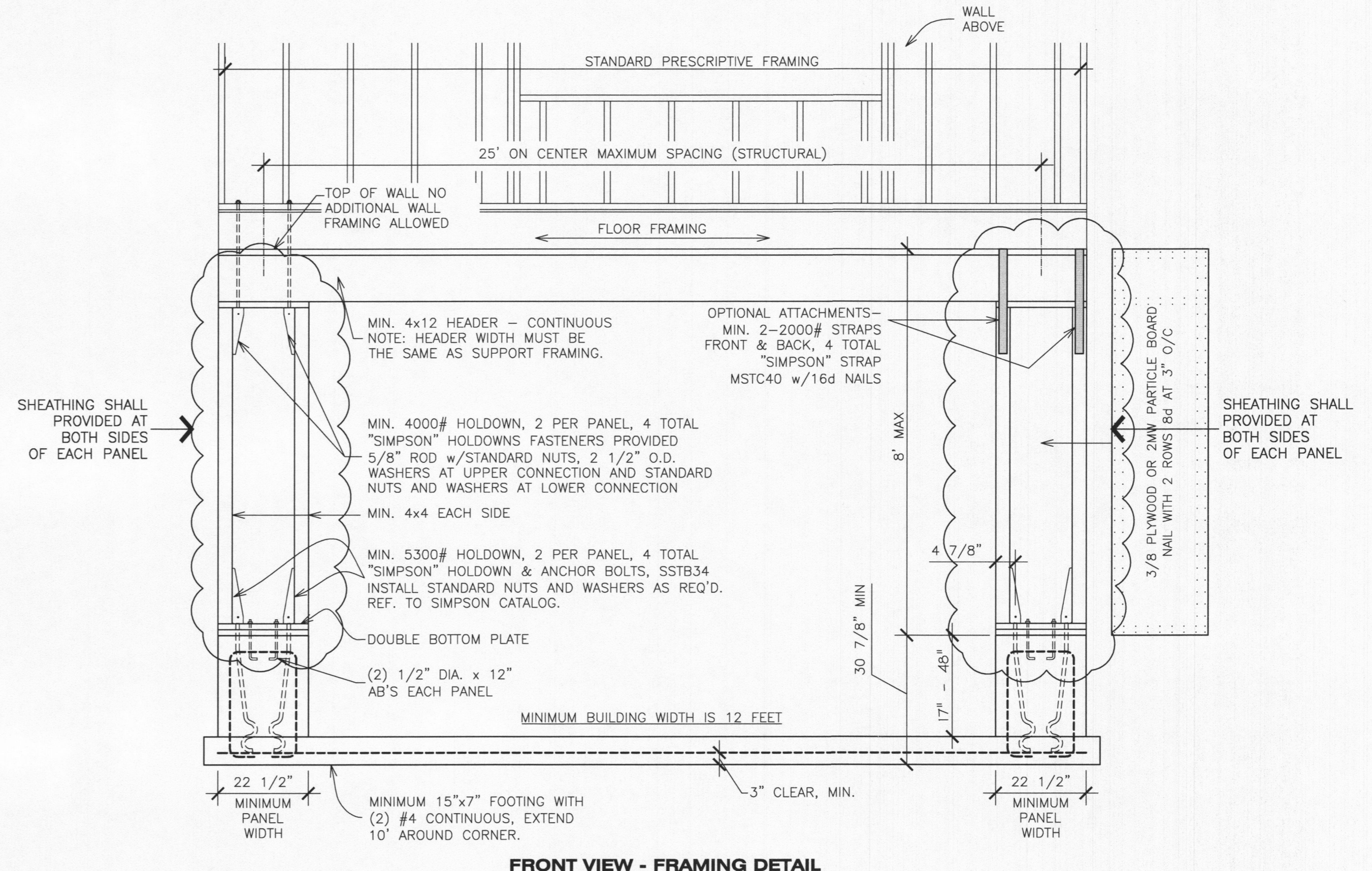
EXCEPTION:
1. WALLS MAY BE BRACED ON ONE SIDE OF THE WALL ONLY WHEN THE PANEL THICKNESS IS INCREASED TO A NOMINAL 1/2-INCH (12.7mm) STRUCTURAL SHEATHING THICKNESS AND THE NAIL SPACING AT THE EDGE OF PANEL IS REDUCED TO 3 INCHES (76mm) ON CENTER.



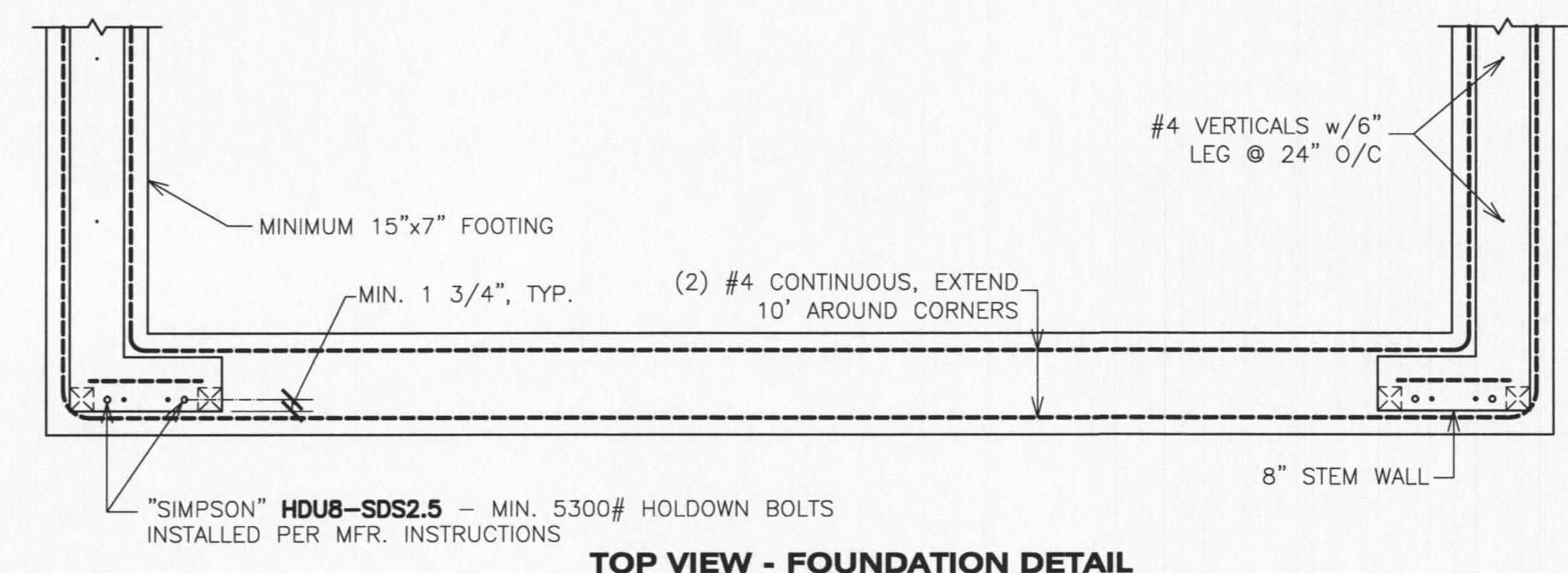
CONNECTORS:
1. QUANTITY AS SHOWN ON DETAILS.
2. GUSSET PLATE:
1/2" STRUCTURAL SHEATHING OR 1x4" NOMINAL WOOD LUMBER MIN. OR 18 GAUGE (0.0598") STEEL SHEETING MIN.
3. NAILS:
8d FOR 1/2" STRUCTURAL SHEATHING OR 1x (VARIES) NOMINAL MATERIAL, 10d FOR 2x (VARIES) NOMINAL MATERIAL & LARGER

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"

4. WOOD SCREWS & STAPLES ARE AN ACCEPTABLE ALTERNATE.



FRONT VIEW - FRAMING DETAIL



TOP VIEW - FOUNDATION DETAIL

NOTES:
1. VERTICAL DOWELS ARE #4 WITH 6" LEG
2. HORIZONTAL WALL REINF. MIN. (1) #4 OR PER HOLDOWN REQUIREMENT WHICH EVER IS MORE RESTRICTIVE.
3. ANCHOR BOLTS ARE (2) 1/2" x 12" MIN./PANEL
4. ROOF IS TO BE SHEATHED WITH A.P.A. RATED STRUCTURAL USE PANELS.
5. 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

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

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

D1



MiTek USA, Inc.

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

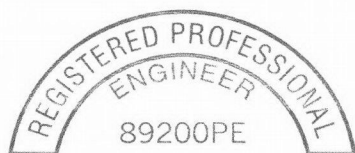
Re: B1701644
DK Homes

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: 12/31/2017

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.



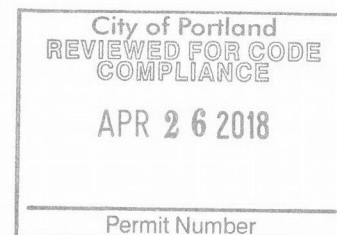
Job B1701644	Truss A01	Truss Type GABLE	Qty 1	Ply 1	DK Homes Job Reference (optional)	K3247589
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ProBuild Beaverton Truss, Beaverton, oR 97007

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:52 2017 Page 2
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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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

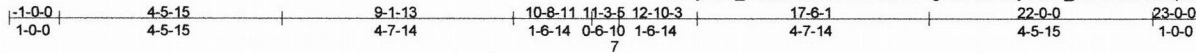


250 Klug Circle
Corona, CA 92880

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



Scale = 1:45.0

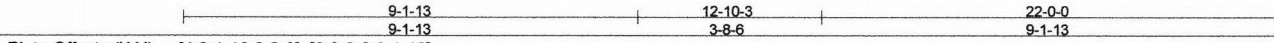
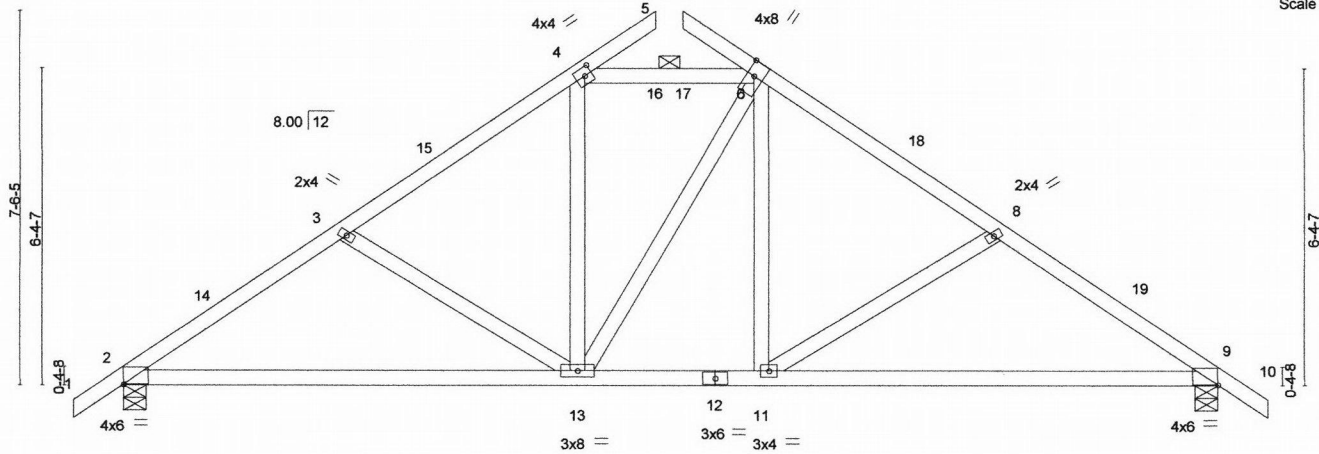


Plate Offsets (X, Y) - [4.0-1-12, 0-2-0], [6.0-3-8, 0-1-12]					
LOADING (psf)	SPACING 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.13 9-11 >999 240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.39 9-11 >657 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.04 9 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014	(Matrix)			
				Weight: 115 lb	FT = 10%

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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

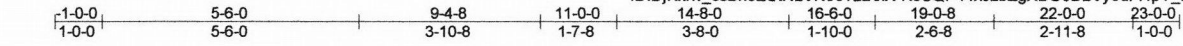


Job B1701644	Truss A03	Truss Type Roof Special	Qty 4	Ply 1	DK Homes	K3247591
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ProBuild Beaverton Truss, Beaverton, oR 97007

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'

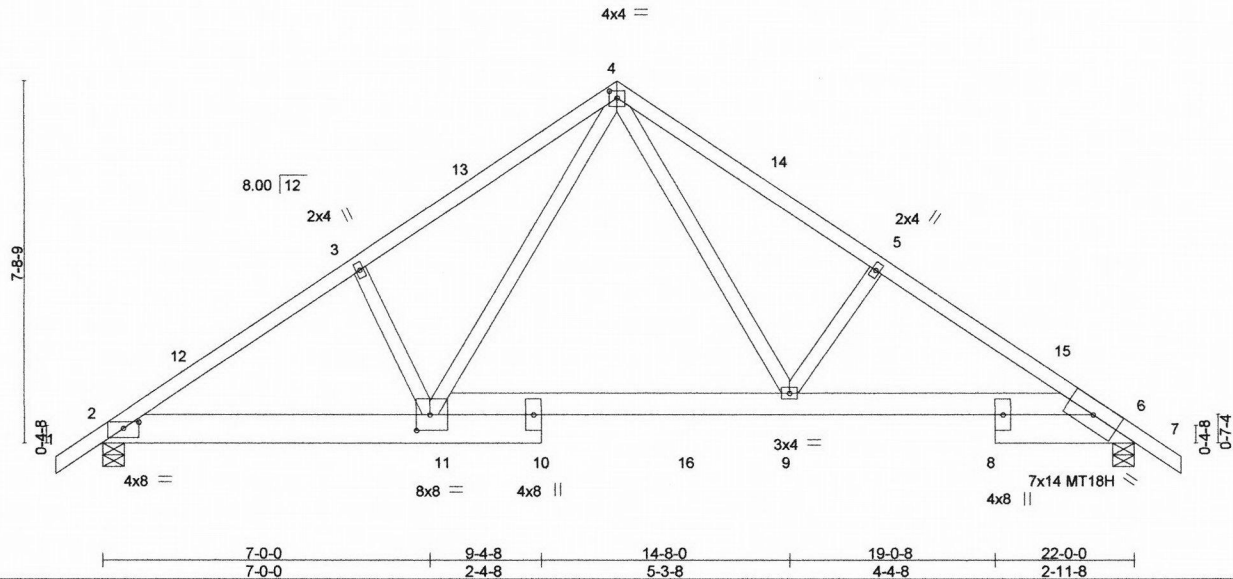


Plate Offsets (X,Y)-	[2:0-4-0,0-1-10], [4:0-2-0,0-1-12], [11:0-3-8,0-4-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2015/TPI2014	TC 0.29 BC 0.66 WB 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	220/195 220/195
TCDL 7.0					
BCLL 0.0 *					
BCDL 10.0					
				Weight: 135 lb	FT = 10%

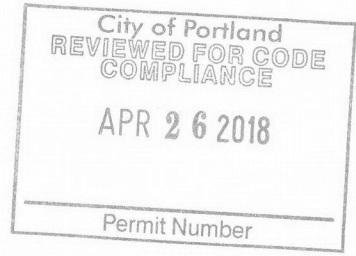
LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr G	TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins.
BOT CHORD 2x8 DF SS *Except* 6-11: 2x6 DF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 DF Std G	MiTek recommends that Stabilizers and required cross bracing 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

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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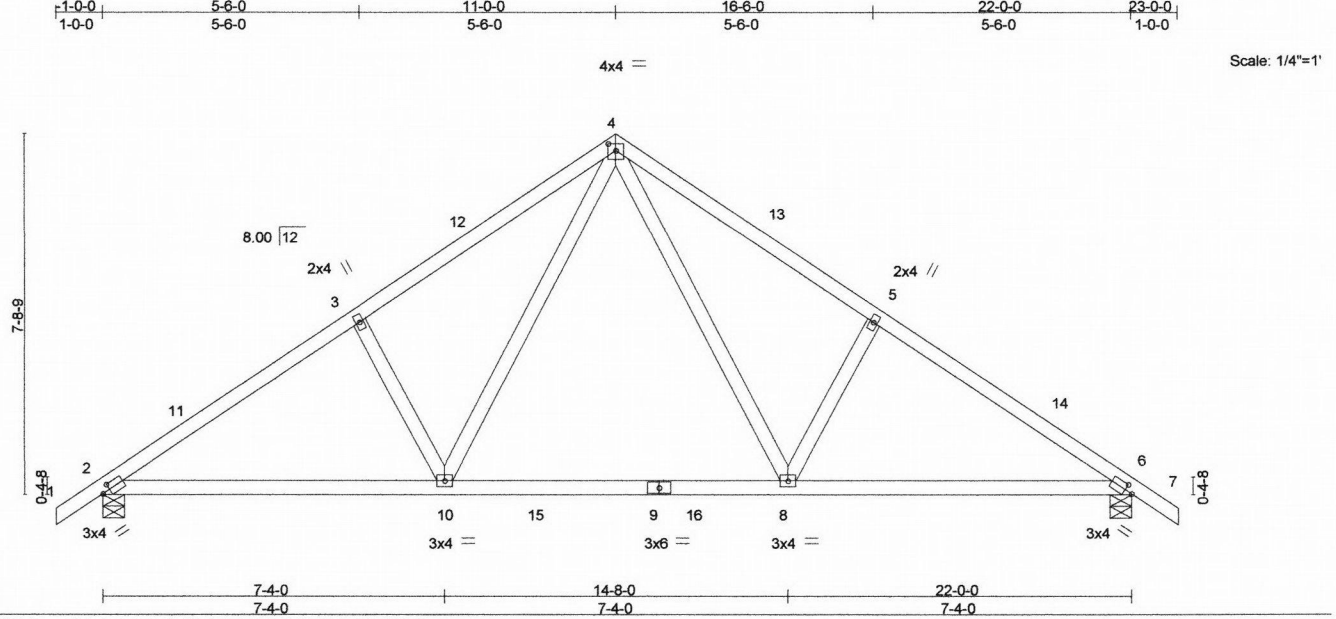


Plate Offsets (X,Y) - [2:0-2-0,0-1-8], [4:0-2-0,0-1-12], [6:0-2-0,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
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 0.31 WB 0.23 (Matrix)	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	MT20	220/195
TCDL 7.0					
BCLL 0.0 *					
BCDL 10.0					
				Weight: 103 lb	FT = 10%

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
 BOT CHORD

Structural wood sheathing directly applied or 5-7-13 oc purlins.
 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 _____

REGISTERED PROFESSIONAL ENGINEER
 89200PE
 DAVID MERRILL BAXTER
 OREGON
 MAY 14, 2014

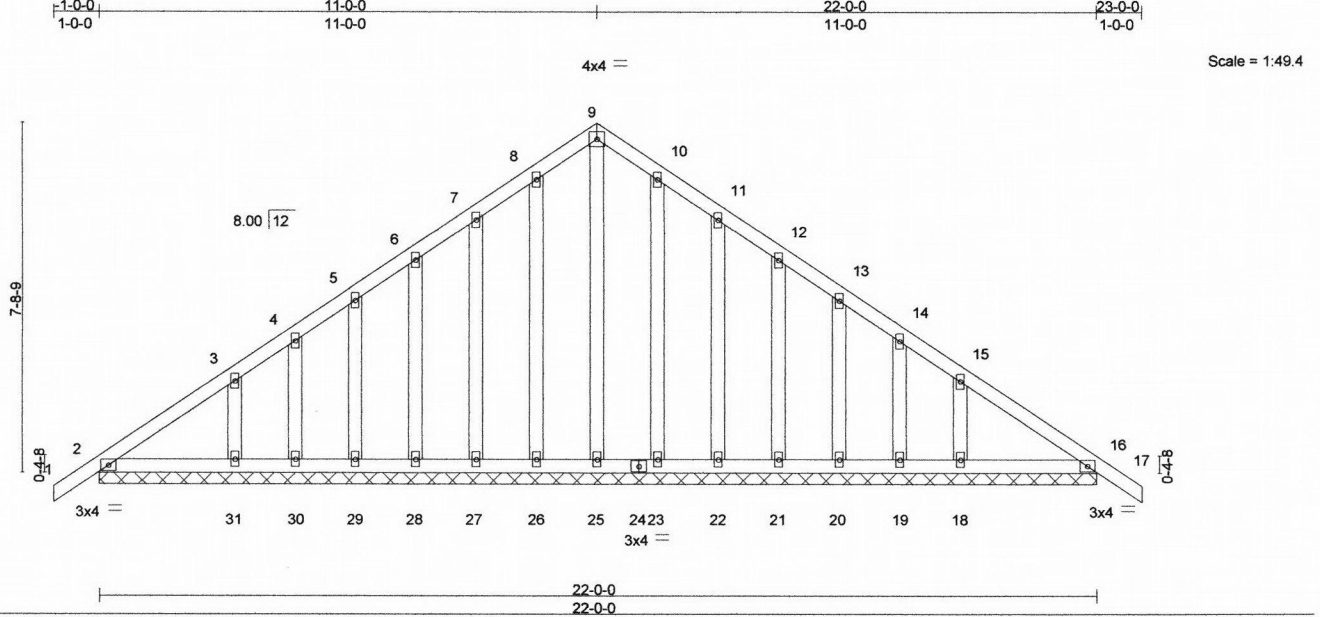
EXPIRES: 12/31/2017
 May 30, 2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI1-7473 rev. 10/03/2015 BEFORE USE.
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MiTek
 250 Klug Circle
 Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	DK Homes	K3247593
B1701644	A05	GABLE	1	1		

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_



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

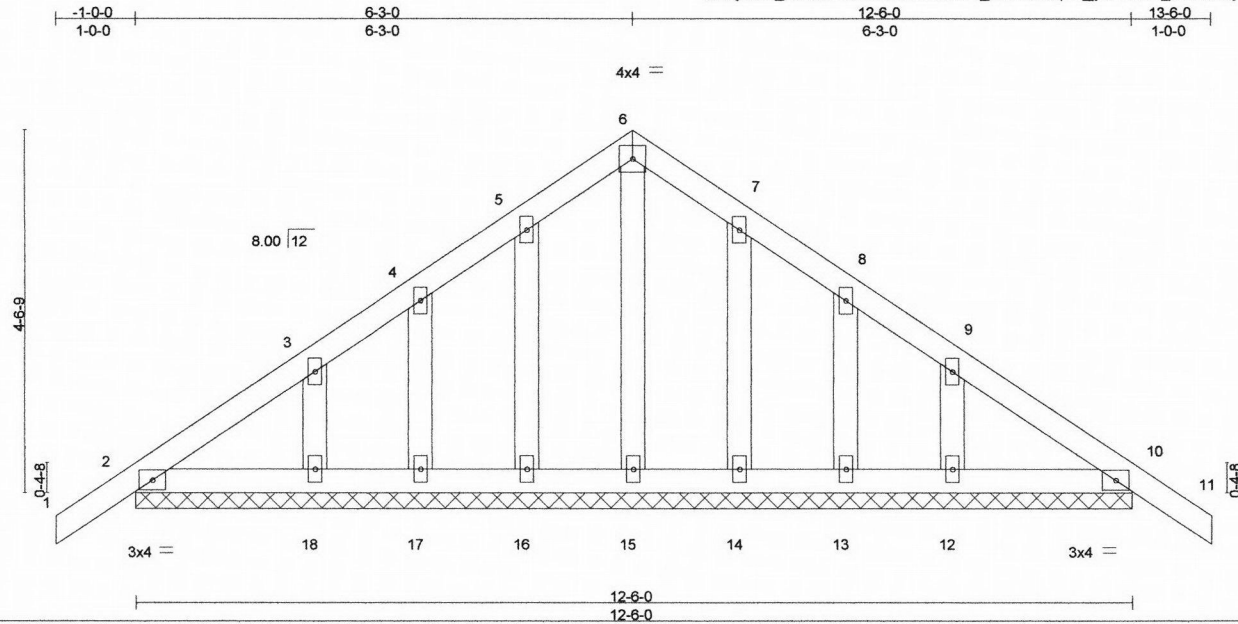


EXPIRES: 12/31/2017
 May 30, 2017

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_cc1vuvQjcaUo8CzBcdz



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

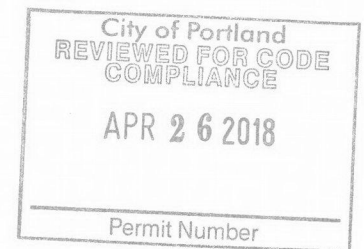
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

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

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.

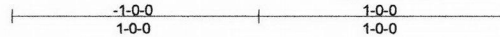


250 Klug Circle
Corona, CA 92880

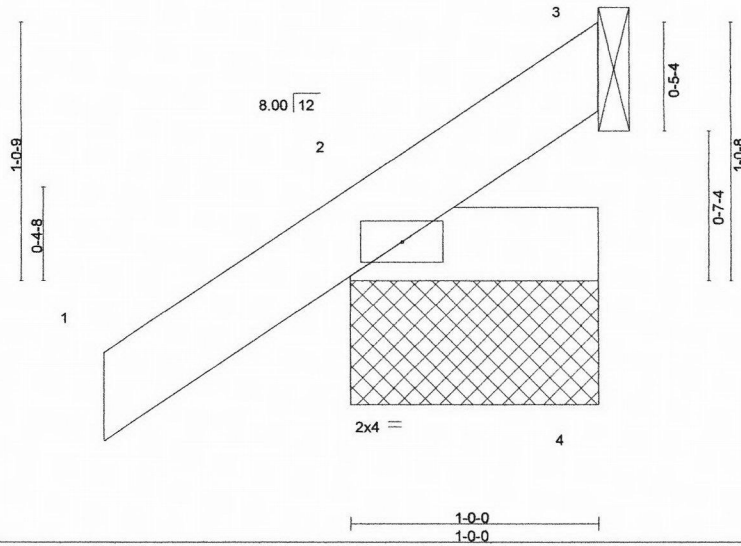
Job B1701644	Truss D01	Truss Type GABLE	Qty 2	Ply 1	DK Homes K3247595
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ProBuild Beaverton Truss, Beaverton, OR 97007

7,640 s Sep 29 2015 MiTek Industries, Inc. Mon May 29 13:26:57 2017 Page 1
ID:DjKklw_csBnsESINLVN55?zBeiX-YAceD6IPbB?1ctldSjQWNpXmRRFetUpZELgezBody



Scale = 1:9.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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				
BCLL 0.0 *	Code IBC2015/TPI2014			Weight: 5 lb	FT = 10%
BCDL 10.0					

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

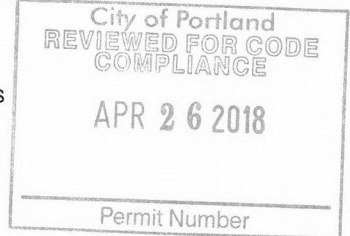
BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 2=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

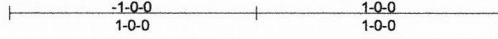
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

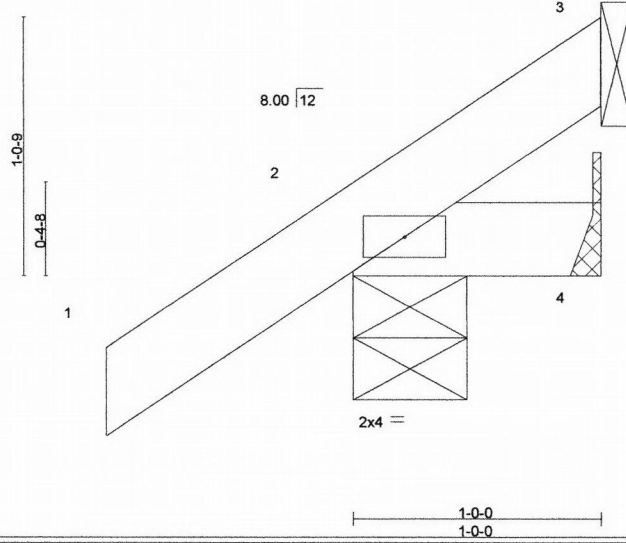
Job B1701644	Truss D02	Truss Type Monopitch	Qty 1	Ply 1	DK Homes K3247596
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ProBuild Beaverton Truss, Beaverton, oR 97007

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



LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2015/TPI2014	CSI. TC 0.09 BC 0.02 WB 0.00 (Matrix)	DEFL. 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	PLATES GRIP 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

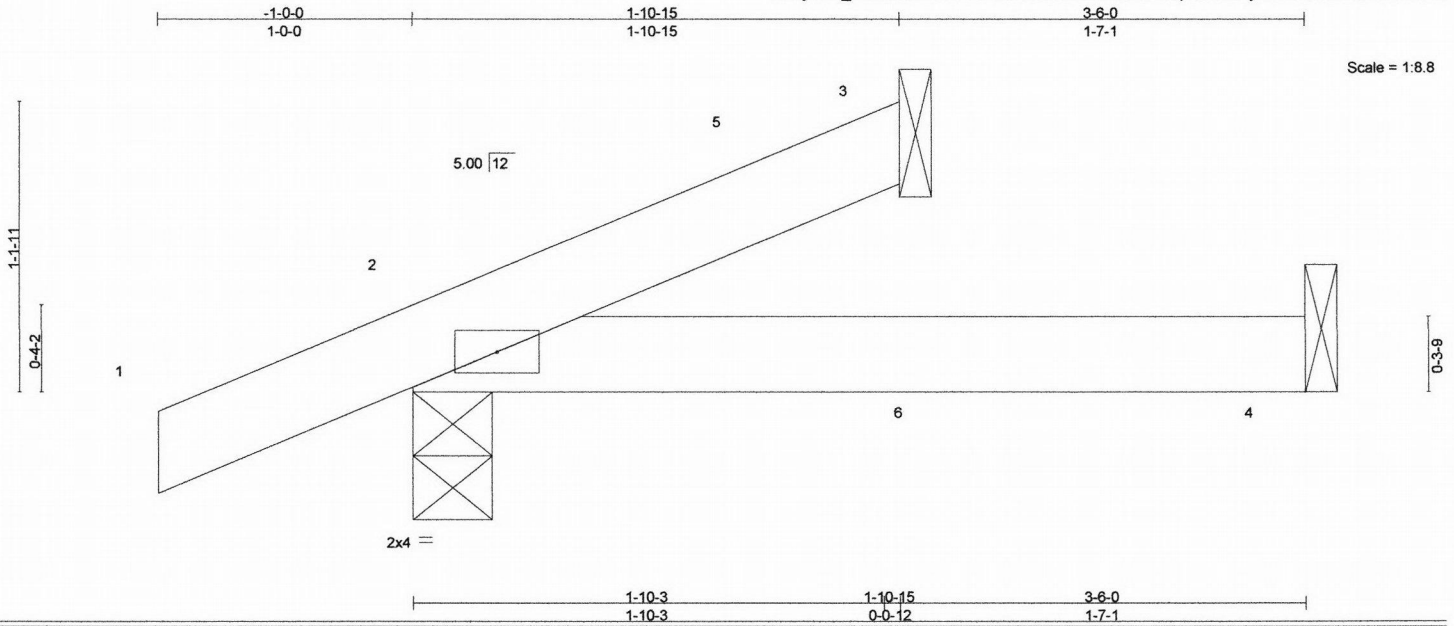
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
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Job B1701644	Truss JC01	Truss Type Jack-Open Girder	Qty 1	Ply 1	DK Homes K3247597
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ProBuild 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_csBnsESiNLVN557zBeiX-ONAORSJ1LV7uE1tp00Lw04yWrWwNkku1DzuD4zBcdx



Scale = 1:8.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 Code IBC2015/TPI2014			Weight: 9 lb	FT = 10%
BCLL 0.0 *					
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)

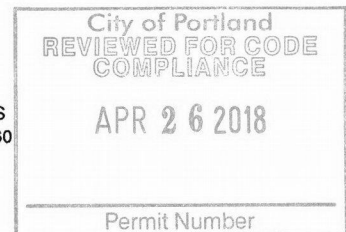
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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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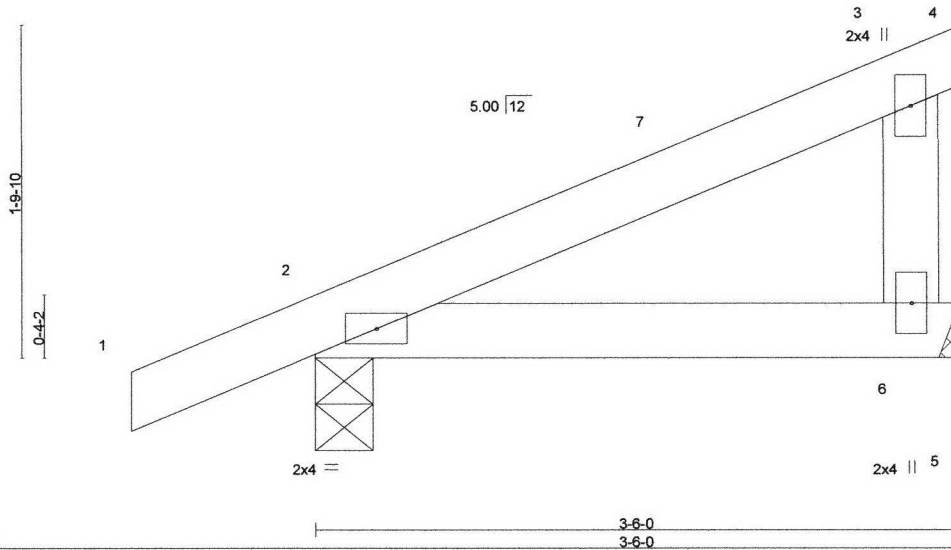
ProBuild Beaverton Truss, Beaverton, OR 97007

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

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Scale = 1:12.1



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	L/defl	L/d	PLATES	GRIP
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

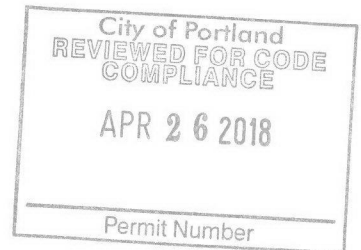
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

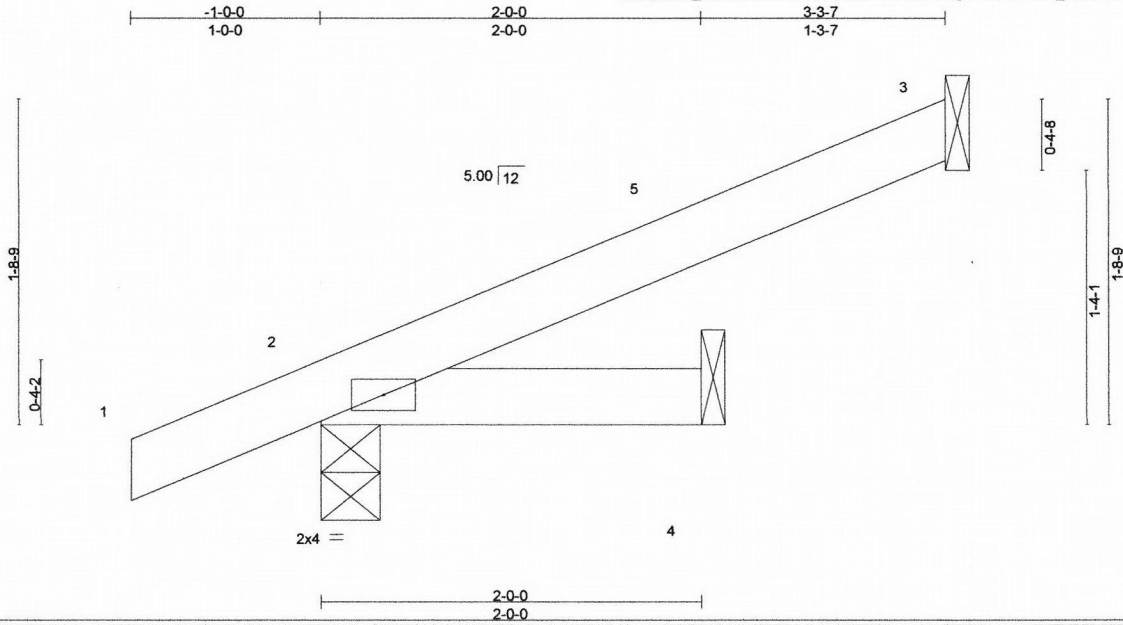
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250 Klug Circle
 Corona, CA 92880

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



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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.

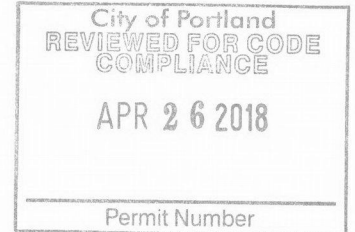
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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; TCCL=4.2psf; BCCL=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

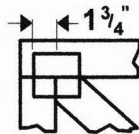
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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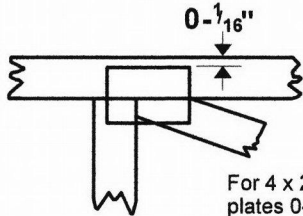


Symbols

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.

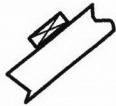
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

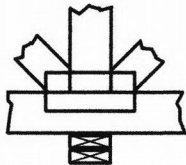
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

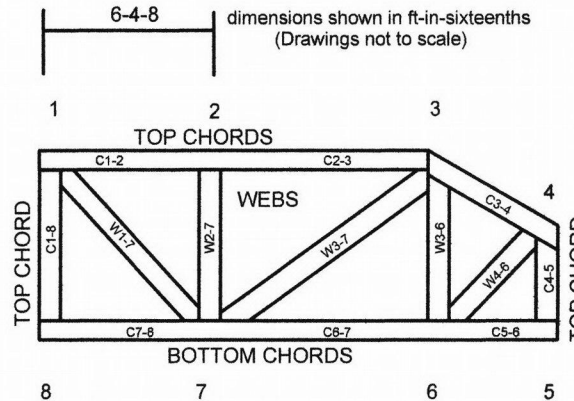


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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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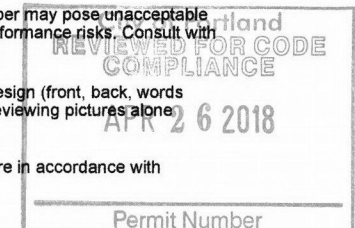


MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

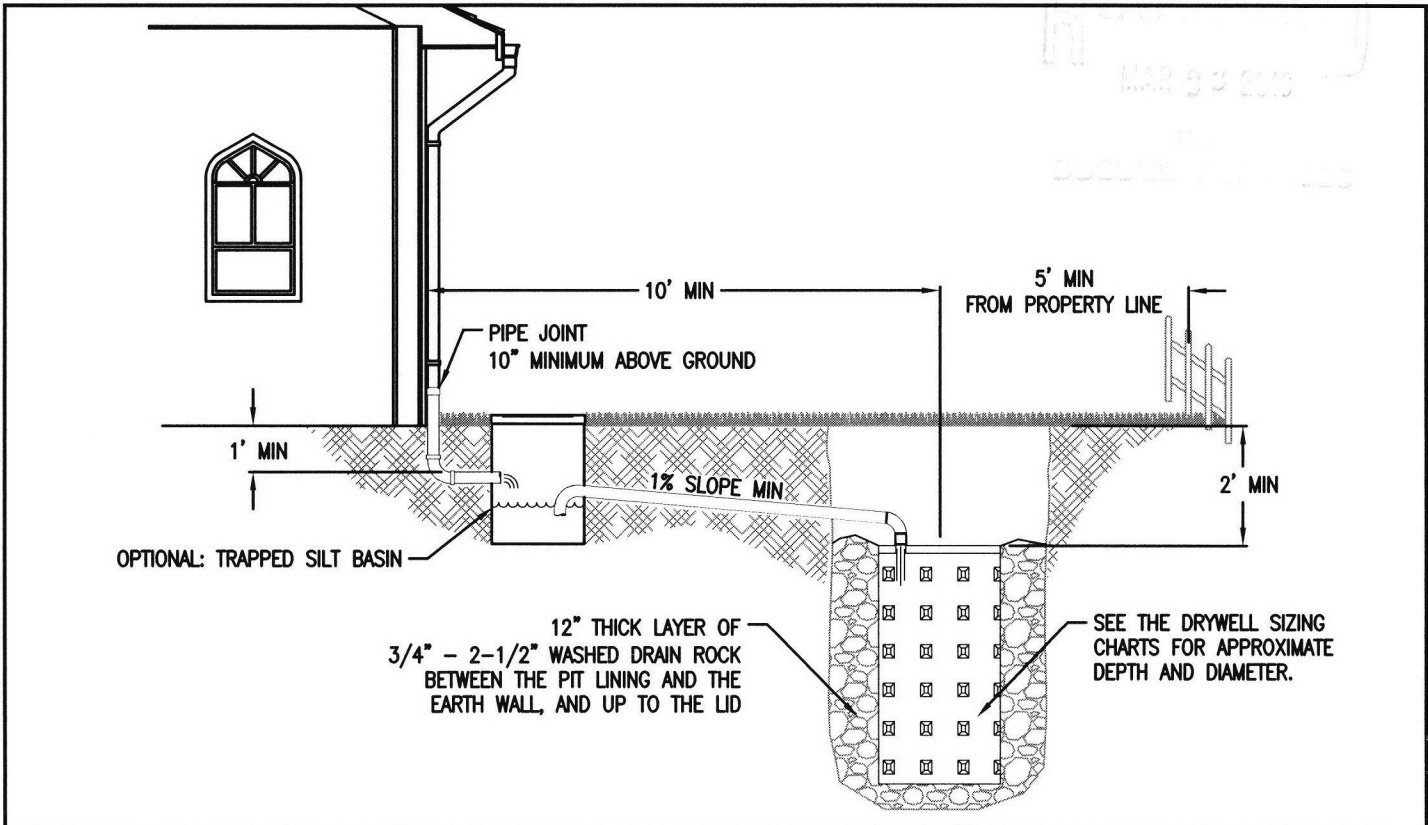
General Safety Notes

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 22 2015
 DUCUM



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
 UNIFORM PLUMBING 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



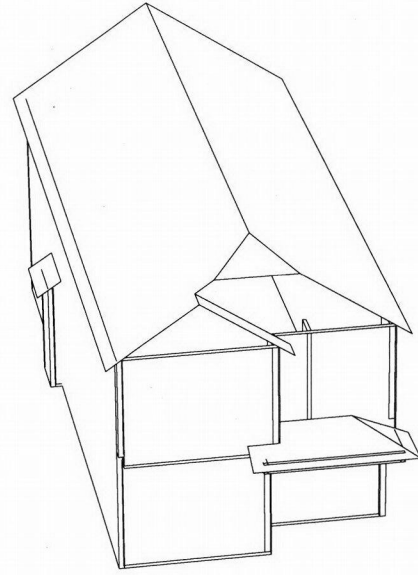
Bureau of Environmental Services



NUMBER
 SW-280
 7-1-16



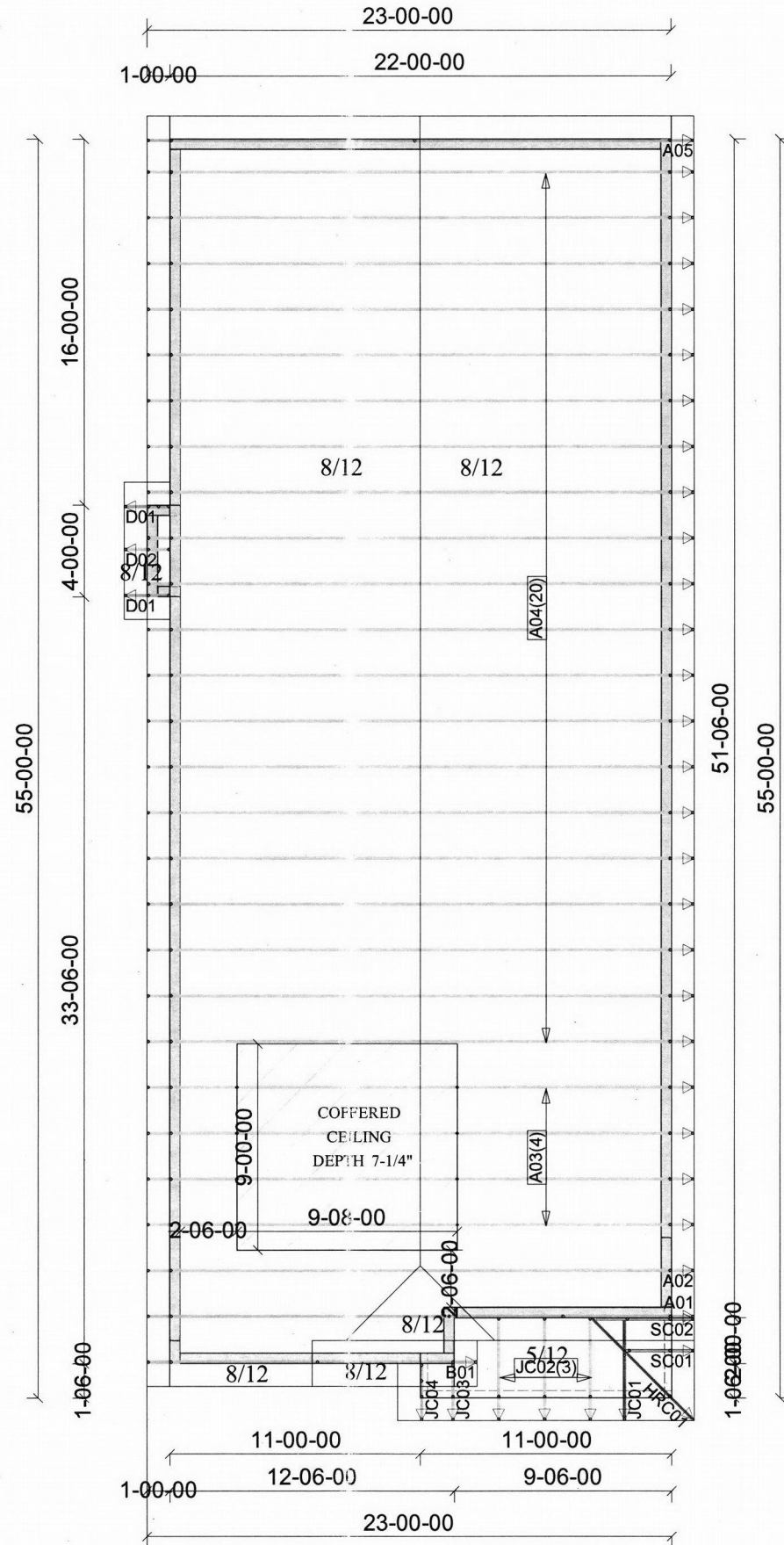
TRIANGLE SHAPE \triangle INDICATES LEFT END ON LAYOUT AND TRUSS DRAWING ON STAMPED ENGINEERING PAGE



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

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

DATE:	05/29/2017	SCALE:	NTS
SALESMAN:	Jody Platta	QUOTE #:	B1701644
DESIGNER:	Marieika Villegas	JOB #:	

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



BUILDER: DK Homes
PROJECT: P1980
ADDRESS: , Portland, OR