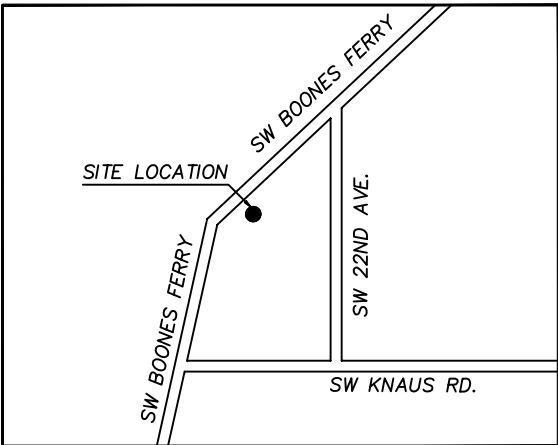
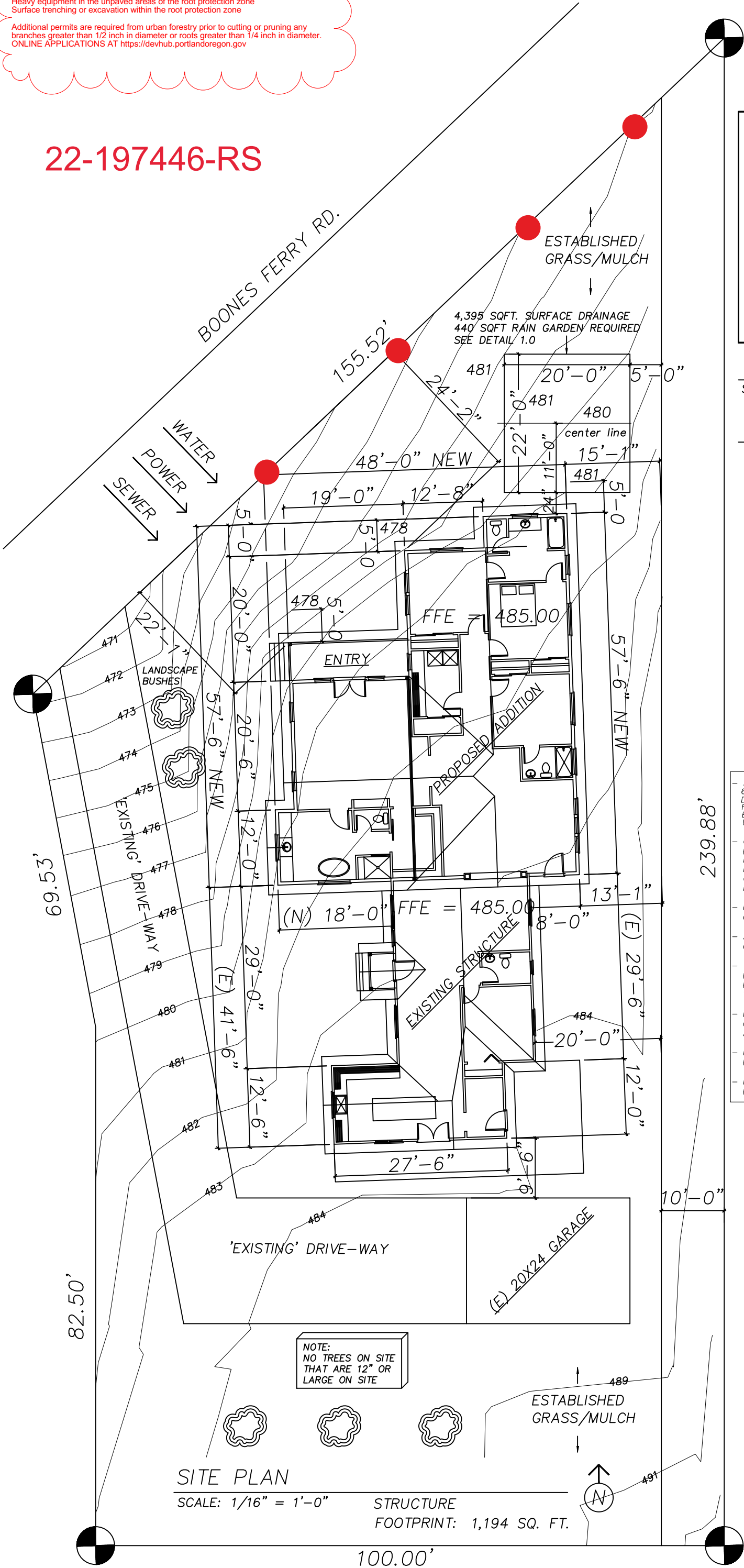


STREET TREE PROTECTION REQUIRED
PRESCRIPTIVE PATH - BASIC

Active protection measures, such as fencing, are NOT required.
THE FOLLOWING IS PROHIBITED WITHIN THE ROOT PROTECTION ZONE:
Ground disturbance
Storage of materials within unpaved areas of the root protection zone
Heavy equipment in the unpaved areas of the root protection zone
Surface trenching or excavation within the root protection zone

Additional permits are required from urban forestry prior to cutting or pruning any
branches greater than 1/2 inch in diameter or roots greater than 1/4 inch in diameter.
ONLINE APPLICATIONS AT <https://devhub.portlandoregon.gov>

22-197446-RS



VICINITY MAP

SCALE: N.T.S.

PROPERTY INFORMATION:

ADDRESS: 12714 SW BOONES FERRY RD.

LAKE OSWEGO, OR. 97035

ZONING: R10

LOT SIZE: 0.40 ACRES (17,299 SQFT)

SETBACKS:

FRONT: 20 FEET

REAR: 10 FEET

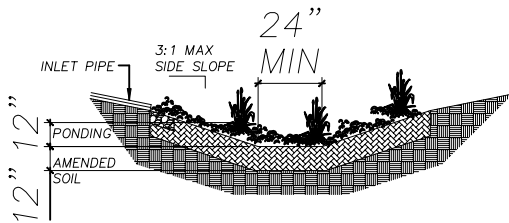
SIDE: 5 FEET

FAR COVERAGE (0.4:1)

FAR ALLOWED: 6,919 SQFT.

PROPOSED: 3,549 SQ FT.

- SETBACKS: 2' FROM ANY BUILDING WITHOUT A BASEMENT; 6' FROM ANY ONSITE BUILDING WITH A BASEMENT; THE DEEPEST POINT MUST BE 10' FROM ALL STRUCTURES; 5' FROM PROPERTY LINES EXCEPT TO RIGHT OF WAY; 5' FROM BASE OF RETAINING WALLS > 3'; 10' FROM TOP OF RETAINING WALLS > 3' HIGH.
- OVERFLOW: A RAIN GARDEN MUST INCLUDE AN OVERFLOW ROUTE THAT SAFELY DIRECTS RUNOFF TO A DISPOSAL POINT IN HEAVY RAINFALL. OVERFLOW ROUTES MUST DRAIN AWAY FROM BUILDING FOUNDATIONS AND ADJACENT PROPERTIES. OVERFLOW ROUTES MUST BE PLANTED OR COVERED WITH ROCK TO LIMIT EROSION.
- PIPING: MUST CONFORM WITH THE REQUIREMENTS OF THE OREGON SPECIALTY PLUMBING CODE.
- AMENDED SOIL: AMENDED NATIVE SOIL WITH 3" YARD DEBRIS COMPOST, BLEND TO A DEPTH OF 12".
- VEGETATION: REFER TO PLANT LIST IN SWMM SECTION 3.5 MINIMUM CONTAINER SIZE IS 1 GAL. NUMBER OF PLANTINGS PER 100 SF OF FACILITY AREA: 80 HERBACEOUS PLANTS OR 72 HERBACEOUS PLANTS AND 4 SMALL SHRUBS.
- ENTRANCE EROSION CONTROL: INSTALL RIVER ROCK, FLAGSTONE OR SIMILAR TO DISSIPATE THE ENERGY OF INCOMING WATER AT ENTRANCE AND ENDS OF DOWNSPOUT EXTENSIONS.
- MULCH: THE SURFACE CAN BE MULCHED WITH 2" OF DARK(AGED) MEDIUM HEMLOCK MULCH.
- INSPECTIONS: CALL BDS IVR INSPECTION LINE, (503) 823-7000, REQUEST 487. 3 INSPECTIONS REQUIRED.



1.0 RAIN GARDEN DETAIL
SCALE: N.T.S.

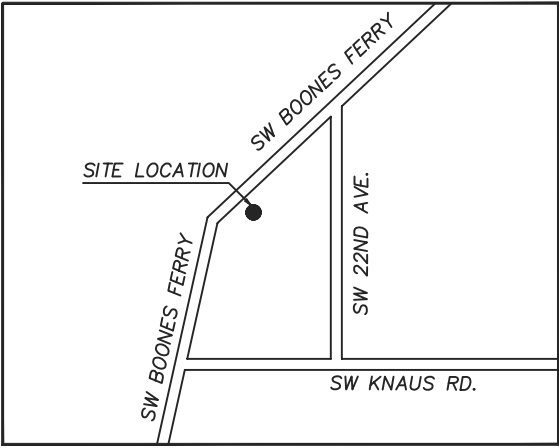
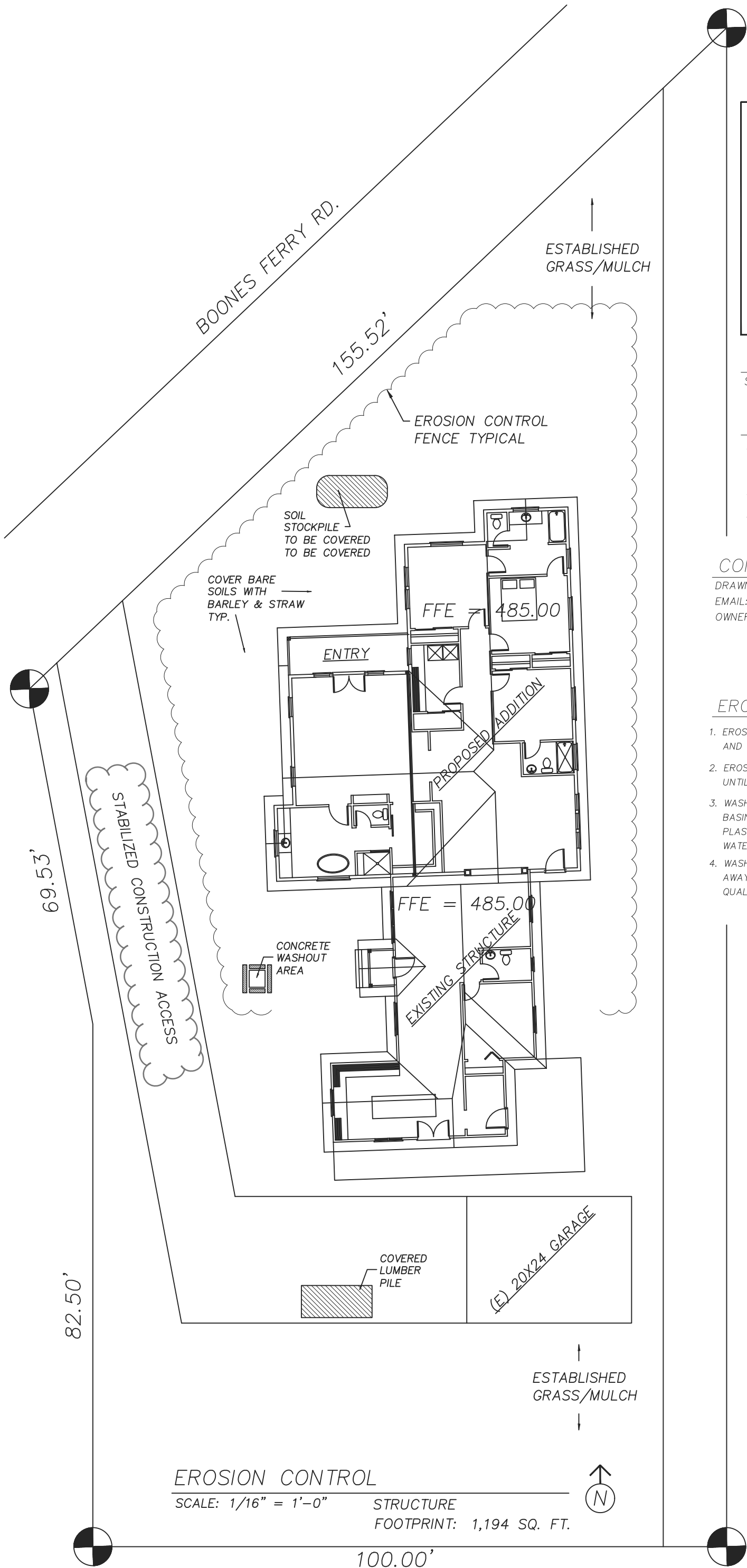
City of Portland



Date: 11/13/23

Permit #: 22-197446-000-00-RS

SUBMITTED 10/25/2023



VICINITY MAP

SCALE: N.T.S.

PROPERTY INFORMATION:

ADDRESS: 12714 SW BOONES FERRY RD.

LAKE OSWEGO, OR. 97035

ZONING: R10

LOT SIZE: 0.40 ACRES (17,299 SQFT)

COMPANY / OWNER INFO:

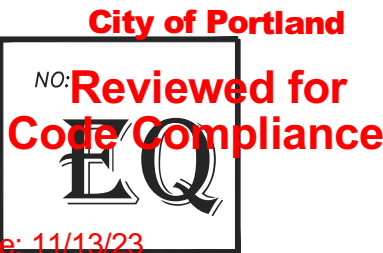
DRAWN BY: J & E POLY SERVICES INC. (503-962-0515)

EMAIL: JANDEPOLYSERVICES@YAHOO.COM

OWNER: THEO & JUDITHA CIRSTEAN (971-678-6930)

EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES TO BE INSPECTED DAILY AND MAINTAINED AS NEEDED TO ENSURE THEIR FUNCTION.
2. EROSION CONTROL MEASURES TO BE KEPT IN PLACE UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
3. WASH-OUT FACILITY TO BE BELOW GRADE OR ABOVE GRADE BASIN CONSTRUCTED OF STRAW BALES OR LUMBER, LINED WITH PLASTIC SHEETING, WHERE WASTE CAN SOLIDIFY AND EXCESS WATER EVAPORATE.
4. WASH-OUT FACILITY TO BE CLEARLY MARKED AND LOCATED AWAY FROM THE STREET, STORM SEWER INLETS, AND WATER QUALITY FACILITIES.

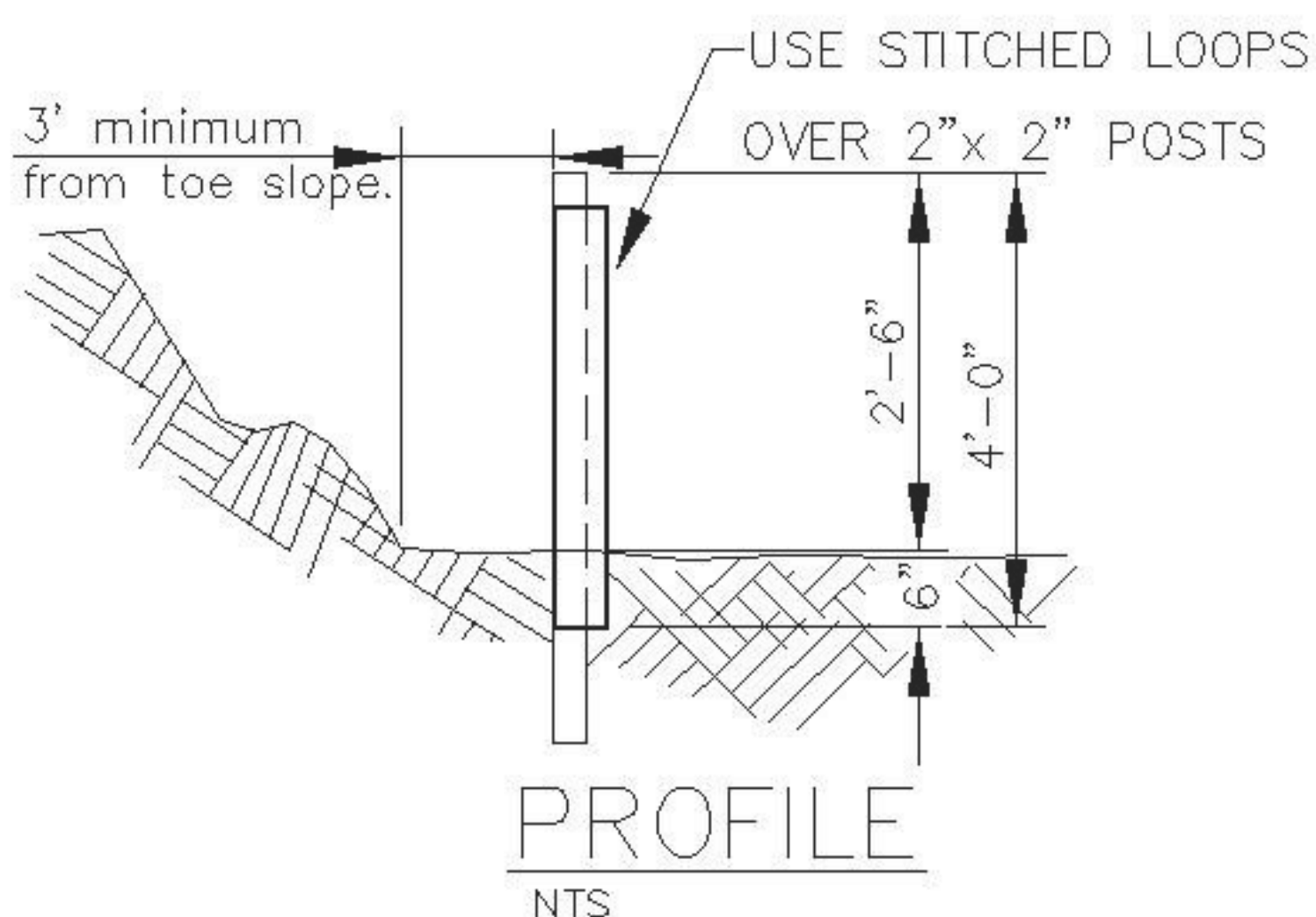
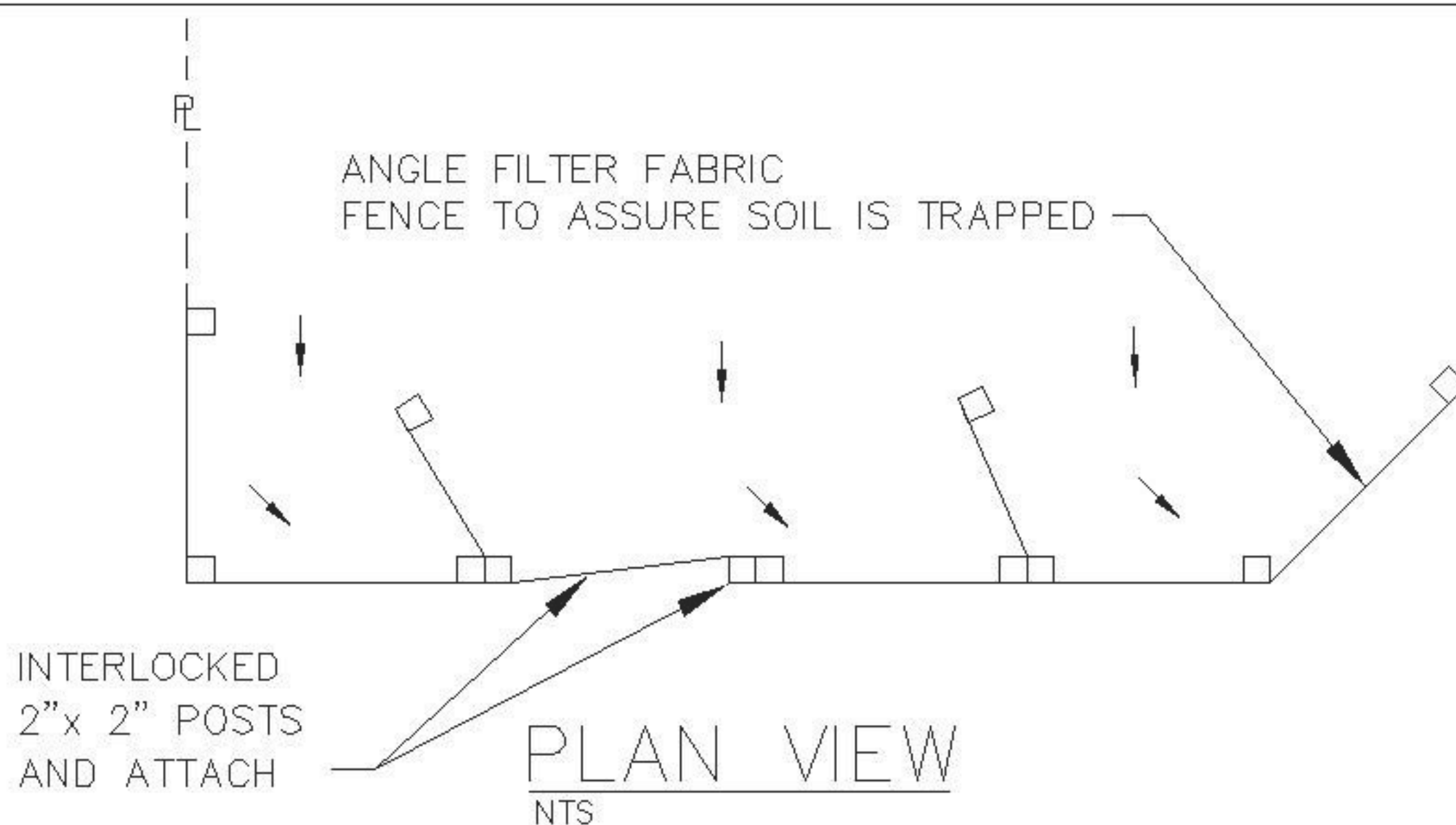


Date: 11/13/23

Permit #: 22-197446-000-00-RS

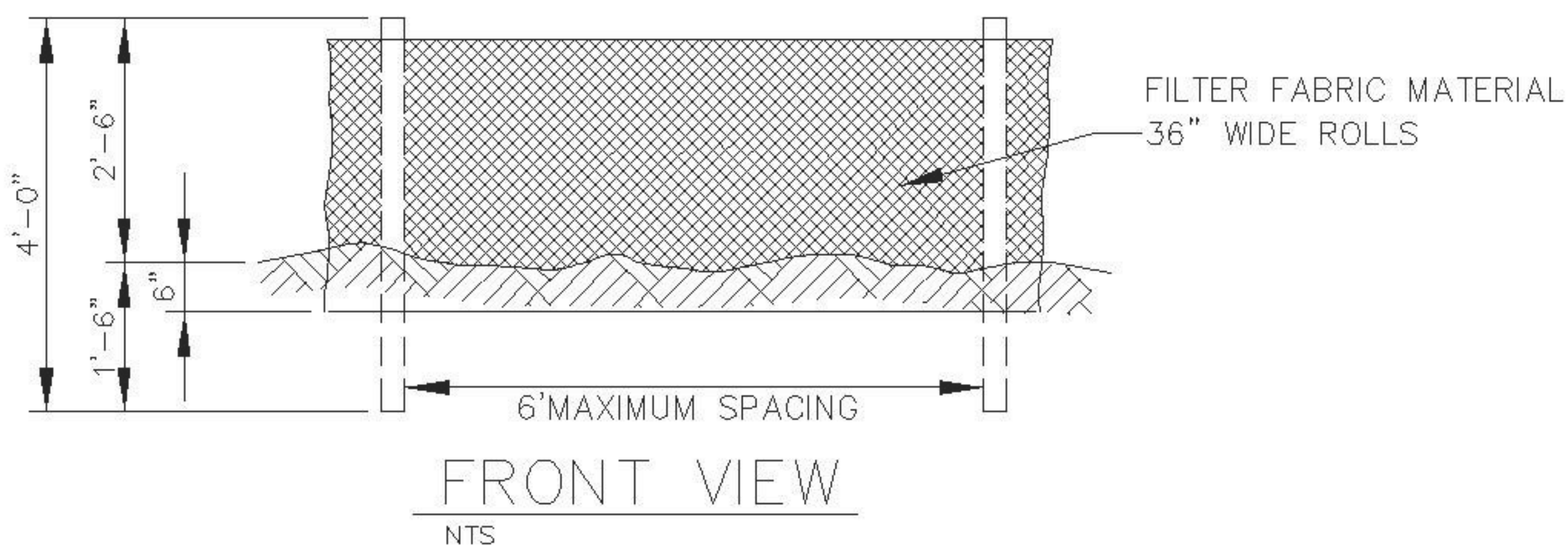
SUBMITTED 5/23/2023

RECEIVED 6.26.2023



NOTES:

1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x 2" FIR, PINE OR STEEL FENCE POSTS.
3. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
5. PANELS MUST BE PLACED ACCORDING TO SPACING ON DETAIL NO.940



SEDIMENT FENCE

DETAIL DRAWING 4-23

RECEIVED 6.26.2023

City of Portland
Reviewed for
Code Compliance

Date: 11/13/23 REVISED 01-09
Permit #: 22-197446-000-00-RS

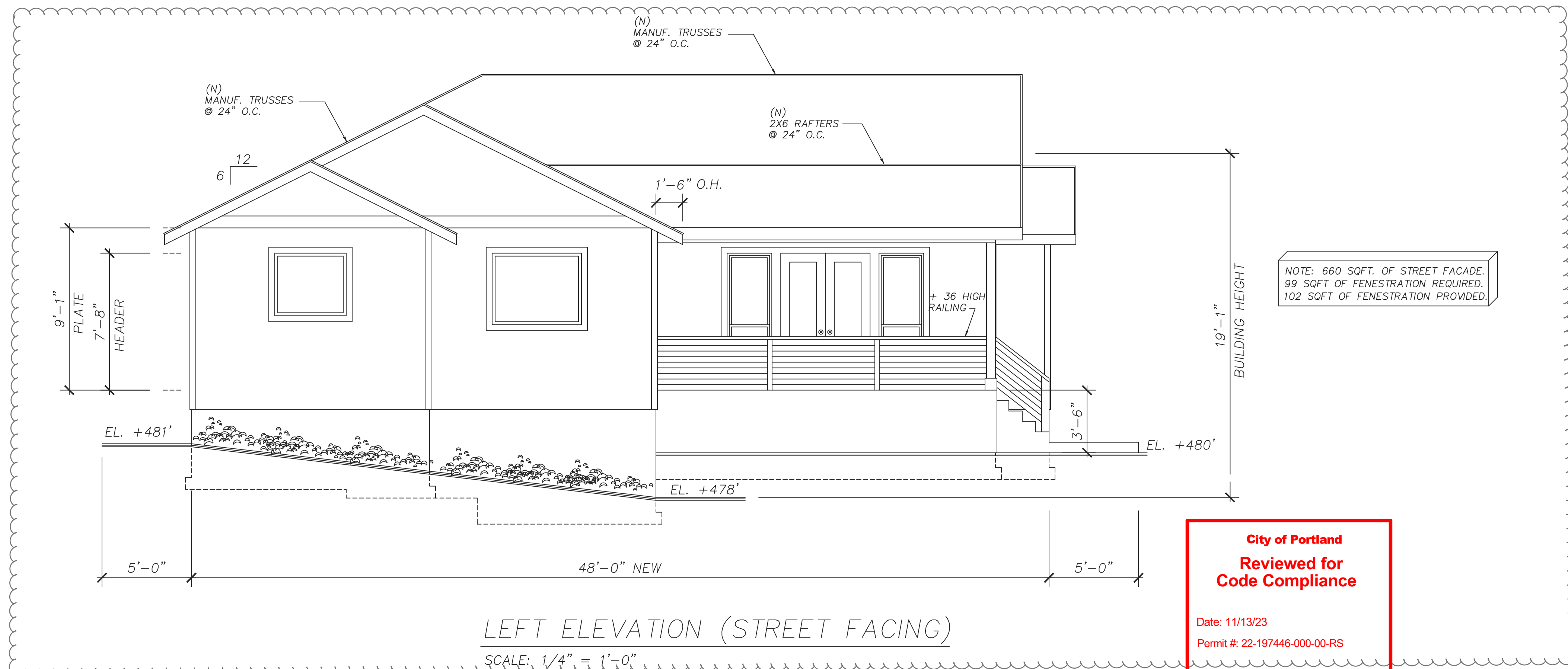
SUBMITTED 5/23/2023

Architectural elevation drawing of a building facade. The drawing includes the following details and dimensions:

- Roof Structure:**
 - (N) MANUF. TRUSSES @ 24" O.C.
 - (N) 2X6 RAFTERS @ 24" O.C.
 - (N) MANUF. TRUSSES @ 24" O.C.
 - (E) TRUSSES @ 24" O.C.
 - Roof pitch dimensions: 12/6, 12/4, 12/6.
 - Overhang dimension: 1'-6" O.H.
 - Chimney height: 2'-0" MIN.
- Exterior Walls:**
 - Vertical siding on the main section.
 - Horizontal siding on the gable end.
- Windows and Doors:**
 - Two double-hung windows on the left.
 - Two single windows in the center.
 - A set of three windows on the right.
 - A central entrance door with a transom.
 - Another set of two windows to the right of the door.
 - A single window on the far right.
- Dimensions and Levels:**
 - Building Height:** 19'-1" total, with 9'-1" for the plate and 7'-8" for the header.
 - Ground Levels:** EL. +481' (main), EL. +478' (left), EL. +480' (center), EL. +481' (right).
 - Horizontal Dimensions:** 5'-0" (left section), 57'-6" NEW (center section), 41'-6" EXISTING (right section), 5'-0" (far right section).
 - Right Section Details:** 6'-8" header, 8'-1" plate, 41'-6" EXISTING width.
- Other Features:**
 - Stairs with a 3'-6" run.
 - Landscaping indicated by small tree symbols.

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

EXTEND ALL FLUES A MIN. OF 2'-0"
ABOVE ANY PART OF THE BLD'G W/ IN
A 10'-0" HORIZONTAL RADIUS



Date: 11/13/23
Permit #: 22-197446-000-00-RS

ADDRESS: 12714 BOONES FERRY RD.
LAKE OSWEGO, OR.

TITLE: ELEVATIONS
PROJECT: CIRSTEAN RESIDENCE
OWNER: THEO & JUDITHA CIRSTEAN

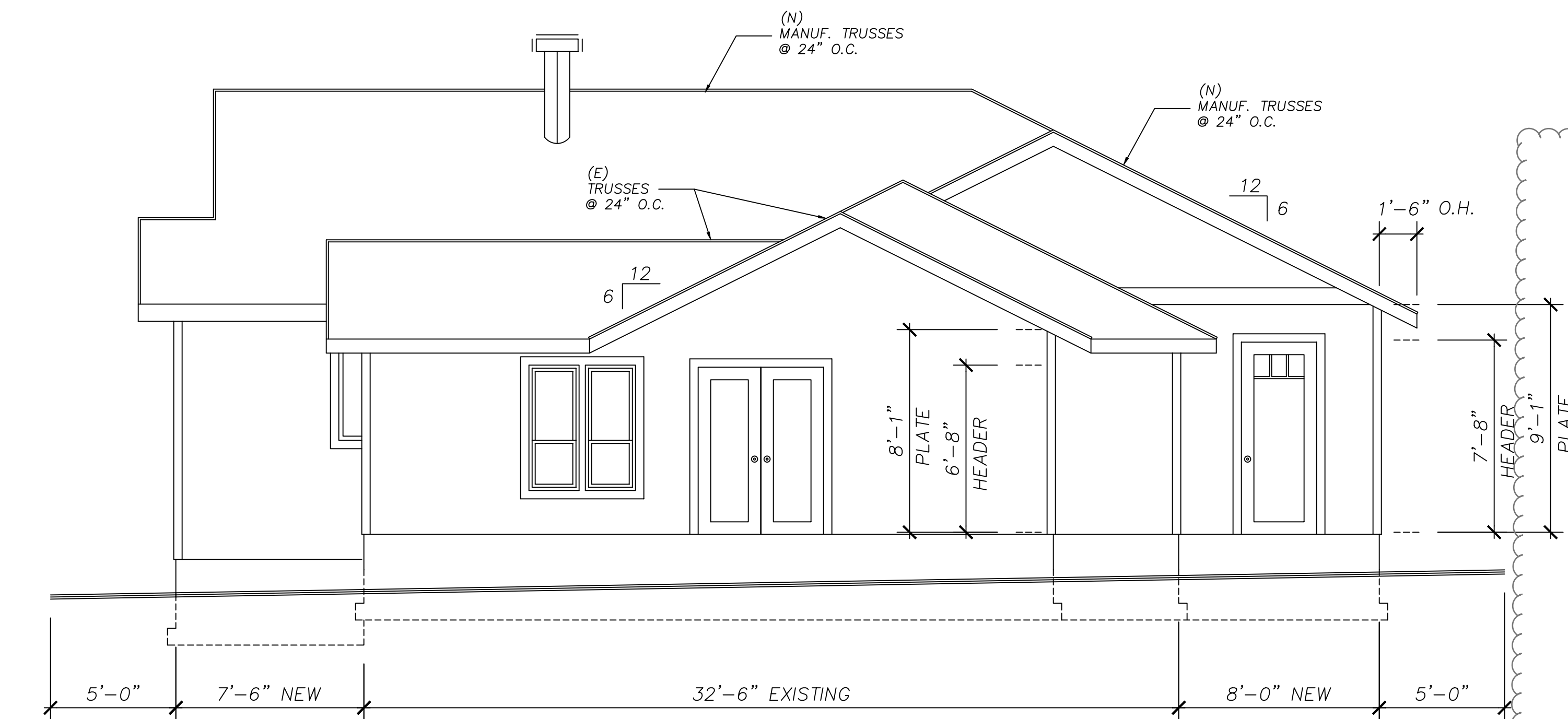
NO: **1**
OF 7 PAGES

SUBMITTED 6/26/2023



REAR ELEVATION

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



RIGHT ELEVATION

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

GENERAL NOTES:

1. ALL EXTERIOR WALLS TO BE 2 X 6 STUDS AT 16" O.C. (TYP. U.N.O.).
2. ALL INTERIOR WALLS TO BE 2 X 4 STUDS AT 16" O.C. (TYP. U.N.O.).
3. ASSUME A MINIMUM OF (2) 2 X 4 STUDS AS BEAM SUPPORTS AT BEARING WALLS.
4. ALL WINDOWS AND SLIDING GLASS DOORS SHOWN ARE TO BE VINYL SASH (VERIFY ALL ROUGH OPENINGS).
5. DENOTES INTERIOR BEARING WALL(S).
6. PROVIDE OUTSIDE COMBUSTION AIR FOR ALL FIREPLACES AND FURNACE.
7. CONNECT ALL SMOKE DETECTORS TOGETHER AND TO HOUSE POWER SOURCE.
8. PROVIDE 5/8" TYPE "X" G.W.B. AT ALL ACCESSIBLE AREAS UNDER STAIRS.
9. PROVIDE U.L. LISTED FLUES AT ALL FURNACE AND METAL FIREPLACE LOCATIONS AS REQUIRED BY MANUFACTURER.
10. PROVIDE 18" HIGH NON-COMBUSTIBLE PLATFORM FOR ALL GAS FIRED APPLIANCES LOCATED IN GARAGE.
11. PROVIDE 3" DIA. X 5'-0" CONCRETE FILLED STEEL PIPE BOLLARD IN GARAGE FOR PROTECTION OF FURNACE AND WATER HEATER (EMBED IN 12" DIA. X 24" CONCRETE FOOTING).

TYP. ROOF SHEATHING REQ'TS.:

INSTALL 15/32" APA RATED CDX PLYWOOD (OR APA RATED OSB) WITH 6d COMMON NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN FIELD. INSTALL PANEL EDGE NAILING FROM SHEATING TO BLOCKING OVER ALL EXTERIOR WALLS AND INTERIOR SHEAR WALLS.

TYP. EXT. WALL SHEATHING REQ'TS.:

INSTALL 15/32" APA RATED CDX PLYWOOD (OR APA RATED OSB) WITH 6d COMMON NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN FIELD. BLOCK ALL PANEL EDGES. ALL JOINTS OCCUR ON COMMON MEMBER.

TYP. FLOOR SHEATHING REQ'TS.:

INSTALL 3/4" MIN. APA RATED CDX PLYWOOD (OR APA RATED OSB) WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN FIELD. BLOCK ALL PANEL EDGES. ALL JOINTS OCCUR ON COMMON MEMBER. INSTALL PANEL EDGE NAILING FROM S HEATING TO BLOCKING OVER SHEAR WALLS.

NOTICE
ALL CONSTRUCTION TO COMPLY WITH THE 2021 EDITION OF THE OREGON RESIDENTIAL SPECIALTY CODE AND WITH THE OREGON AMENDMENTS, INCLUDING THE 2017 OREGON RESIDENTIAL ENERGY CODE. COORDINATE ALL APPLICABLE MODIFICATIONS TO THESE DRAWINGS AS REQUIRED.

SPECIFICATIONS:	
BUILDING COMPONENTS	STANDARD
Maximum Allowable Window Area	No Limit
Window Class	U=0.27
Exterior Doors	U=0.20
Exterior Doors w/ more than 2.5 sq.ft. glazing	U=0.40
Wall Insulation	R-21
Underfloor Insulation	R-30
Flat Ceilings	R-49
Vaulted Ceilings	R-30
Skylight Class	U=0.50
Skylight Area	< 2%
Basement Walls	R-21
Slab Floor Edge Insulation	R-15
Forced Air Duct Insulation	R-8
ADDITIONAL MEASURES — TABLE N1101.1(2)	
1 — HIGH EFFICIENCY HVAC SYSTEM	
a. Gas fired furnace for boiler AFUE 94%, orOR R-21 advanced, and	
b. Air source heat pump HSPF 10.0/14.0 SEER cooling, or	
c. Ground source heat pump COP 3.5 or Energy Star rated	
Table N1101.1(1) & N1101.1(2) of the 2021 ORSC for residential buildings three stories or less.	

City of Portland
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Date: 11/13/23
Permit #: 22-097446-000-00-RS

COMMON NAIL MIN. DIAMETERS AND LENGTHS					
SIZE	6d	8d	10d	16d	20d
DIAMETER	.11"	.131"	.148"	.162"	.192"
LENGTH	2"	2 1/2"	3"	3 1/2"	4"

J & E POLY SERVICES
INC.
810 CHARMAN ST.
OREGON CITY, OR. 97045
503-962-0515

ADDRESS: 12714 BOONES FERRY RD.
LAKE OSWEGO, OR.

TITLE: ELEVATIONS
PROJECT: CIRSTEAN RESIDENCE
OWNER: THEO & JUDITHA CIRSTEAN

DATE: 03/18/2021
PROJECT NO.: ~
REVISIONS:
REV-1(02-21-2023)

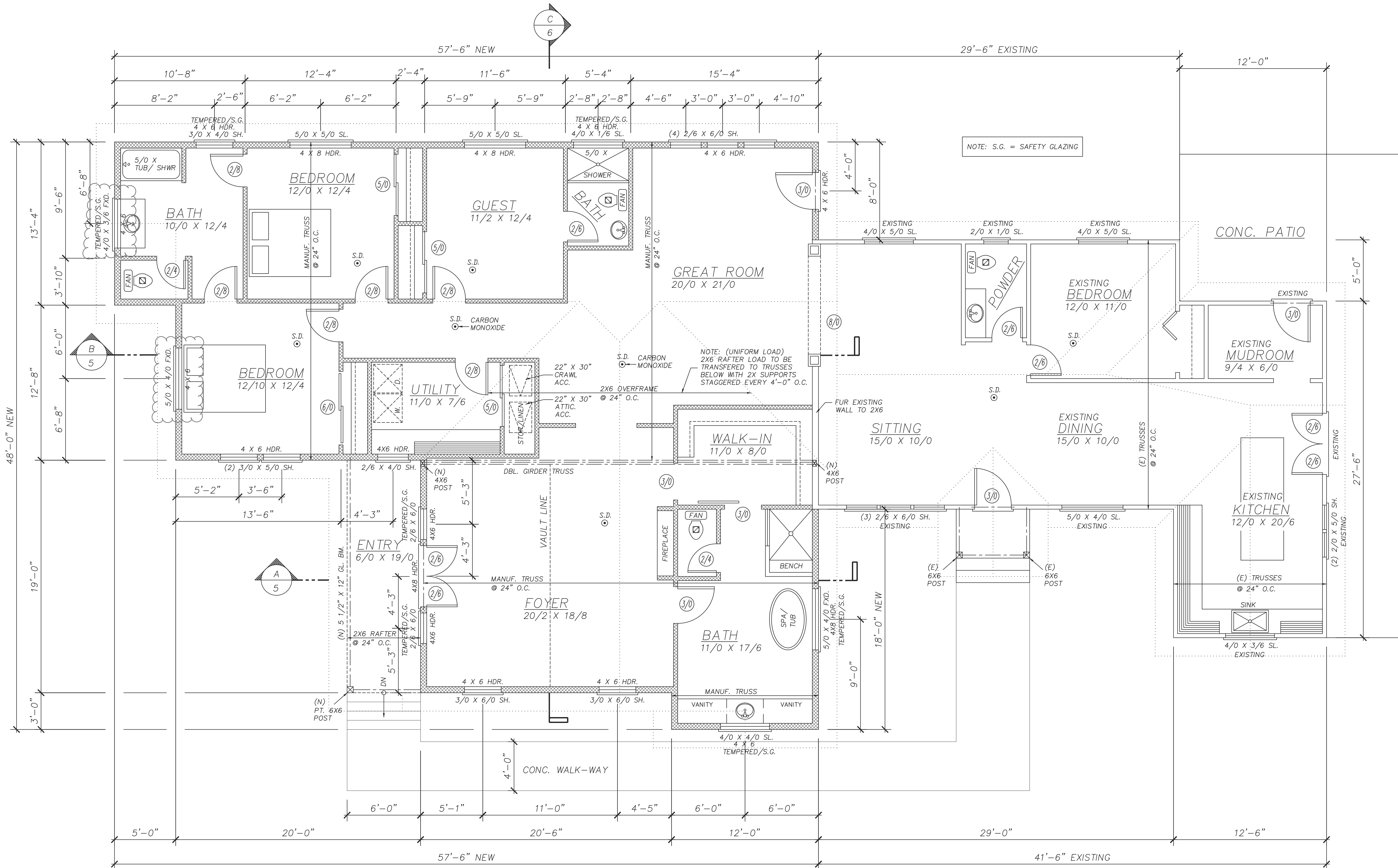
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SUBMITTED 4/12/2023

RECEIVED 6.26.2023
SUBMITTED 5/23/2023



MAIN FLOOR PLAN

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

EXISTING SPACE: 996 SQ. FT.
ADDITION: 2,085 SQ. FT.
TOTAL: 3,081 SQ. FT.

LEGEND:

- DENOTES EXISTING WALLS.
- DENOTES NEW WALLS.
- - - - - DENOTES OPEN ARCH / MISC.

City of Portland
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Code Compliance

Date: 11/13/23
Permit #: 22-197446-000-00-RS

J & E POLY SERVICES
INC.
810 CHARMAN ST.
OREGON CITY, OR. 97045
503-962-0515

ADDRESS: 12714 BOONES FERRY RD.
LAKE OSWEGO, OR.

TITLE: MAIN FLOOR PLAN
PROJECT: CIRSTEAN RESIDENCE
OWNER: THEO & JUDITHA CIRSTEAN

DATE: 03/18/2021
PROJECT NO.: ~
REVISIONS:
REV-1(02-21-2023)
REV-2(05-02-2023)

REFER GROUND
UNCOATED #4 REINFORCING BAR INSTALLED NOT LESS
THAN 3" FROM BOTTOM OF FOOTING AND NOT LESS
THAN 20' IN LENGTH ENCASED WITH A MIN. OF 2 INCHES
OF CONCRETE.

CRAWLSPACE VENTILATION CALC:
2,085 SQFT. PROPOSED.
(28 VENTS) @ 75 SQFT. PER VENT = 2,100 SQFT.

EXISTING
CONC. PATIO

EXISTING
P.T. MUDSIL ON 6" CONC WALL
W/ 5/8"DIA X 12" A.B. @ 48" OC
ON 6"x12" CONT. FOOTING

P.T. MUDSIL ON 6" CONC WALL
W/ 5/8"DIA X 12" A.B. @ 48" OC
ON 6"x12" CONT. FOOTING
MIN. 3" X 3" X 3/16" WASHERS

FOUNDATION NOTES:

1. CONTRACTOR TO EXCAVATE AS TO MAINTAIN 18" MIN. GROUND TO GIRDER CLEARANCE
2. COVER ENTIRE GROUND AREA OF CRAWLSPACE W/ 6 MIL. "VISQUEEN". EXTEND A MIN. OF 1'-0" UP FOUNDATION WALL.
3. GIRDERS TO HAVE 3" MIN. BEARING ON ASPHALT COMPOSITE OVER 1/2" AIR SPACE AT ENDS AND SIDES OF GIRDER AND FOUNDATION WALL.
4. FOUNDATION VENTS TO 16" X 8" W/ #4 MESH CORR. RESIST. SCREEN (22" X 30" RECOMMENDED).
5. PROVIDE CRAWLSPACE ACCESS.
6. PROVIDE CRAWLSPACE DRAIN.

NOTE:
4" CONC. SLAB W/ OPTIONAL 6 X 6
10/16 W.W.M. ON 4" GRANULAR FILL.
12" THICKEN SLAB W/ (2) #4 BARS
HORIZ. CONT. TIED TO FND WALLS
AT G. RAGE DOOR OPENINGS.

Date: 11/13/23
Permit #: 22-197446-000-00-RS

FOUNDATION PLAN

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

J & E POLY SERVICES
INC.
810 CHARMAN ST.
OREGON CITY, OR. 97045
503-962-0515

ADDRESS: 12714 BOONES FERRY RD.
LAKE OSWEGO, OR.

TITLE: FOUNDATION PLAN
PROJECT: CIRSTEAN RESIDENCE
OWNER: THEO & JUDITHA CIRSTEAN

DATE: 03/18/2021
PROJECT NO.:
~
REVISIONS:
REV-1(02-21-2023)

NO:

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GENERAL CONDITIONS

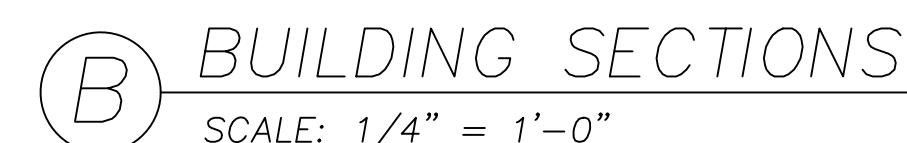
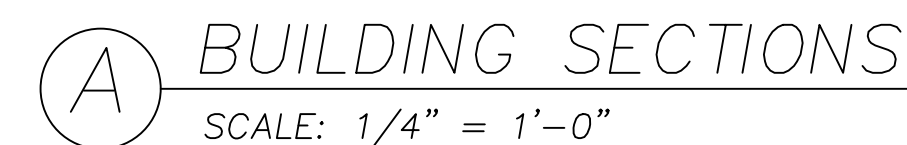
- ## SITE WORK

- ## FOUNDATIONS

- CARPENTRY

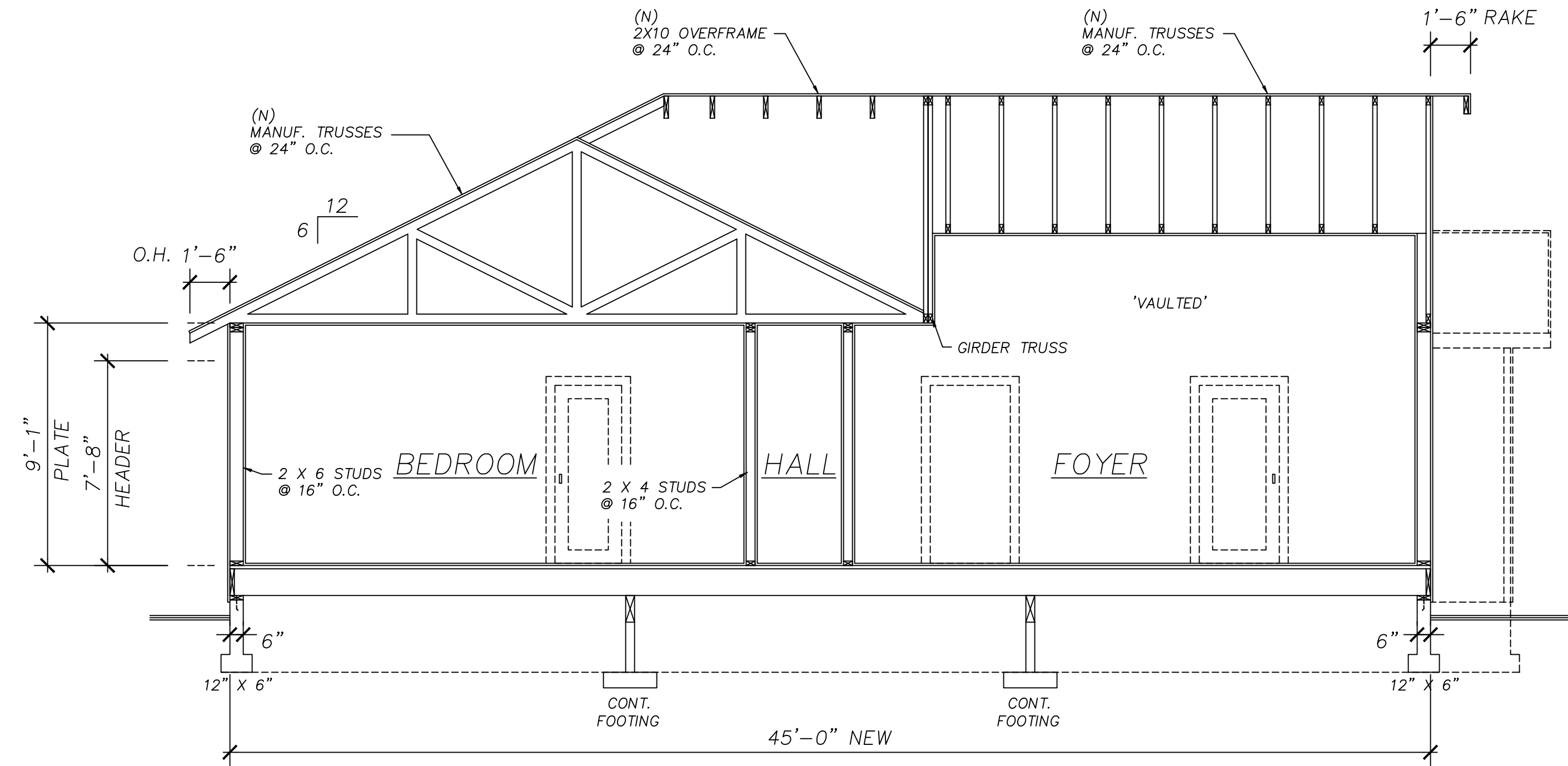
- MISCELLANEOUS

1. All windows within 18" of floor or within 24" of doors are to be tempered.
2. All shower or tub enclosures are to have safety glazing (tempered).
3. Provide 1/2" moisture proof gypsum board around tub and shower enclosures with a moisture resistant surface up 6"-0".
4. Each bedroom to have a minimum window opening of 5.7 s.f. with a minimum width of 20" and a minimum height of 24". The sill is to be no more than 4" off the floor.
5. All skylights to be made with either tempered glass or wired glass ($U = 0.50$).
6. Provide combustion air vents to all fireplaces, wood stoves and any heating appliances using open flame.
7. Bathrooms and utility rooms are to be vented with a 90 c.f.m. fan to the outside.
8. The lighting layout, when shown on the plans, is meant to be used as a guide only. Electrical switches and outlets are to be installed as per local codes and the owners requirements.
9. Cabinet elevations are not generally shown on the plans however, they can be furnished upon request as an additional service.

7. Bathrooms
Permit #: 22-197446-000-00-RS

SUBMITTED 4/12/2023

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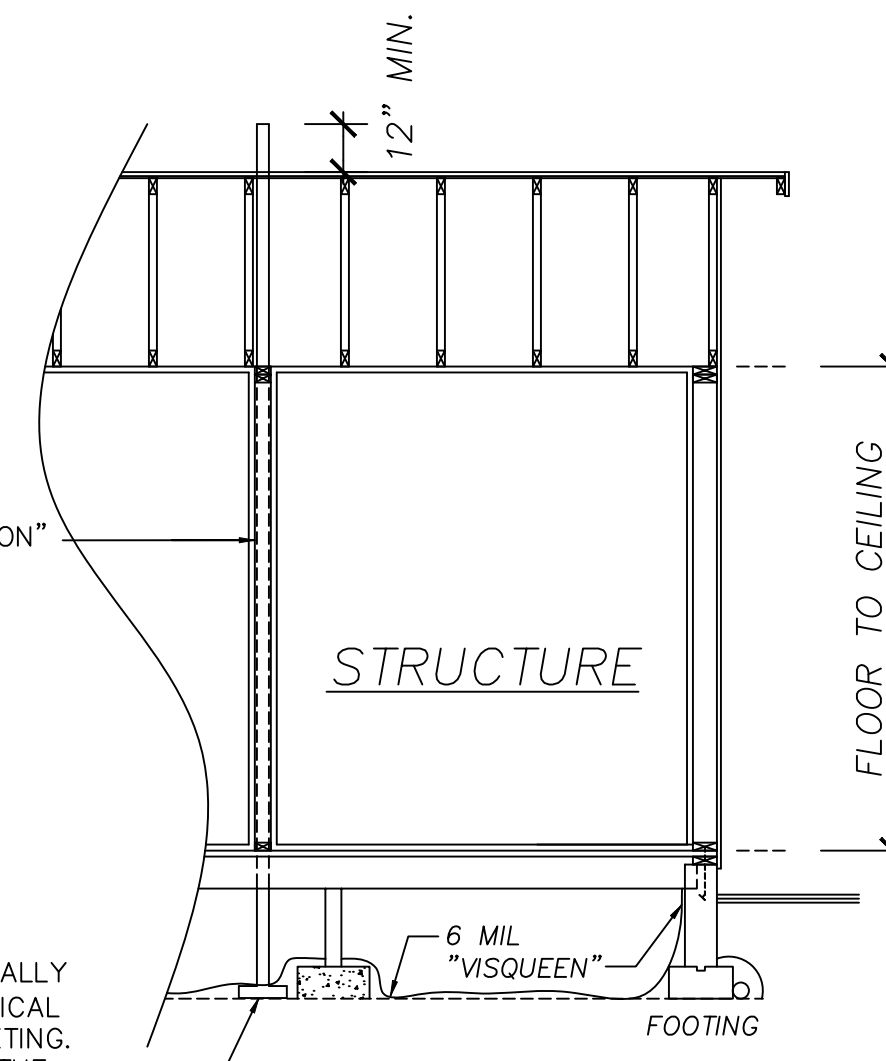
C BUILDING SECTIONS
SCALE: 1/4" = 1'-0"

NOTE:
PIPE TO BE MARKED AS "RADON MITIGATION"

NOTE:
PLUMBING TEE TO BE INSERTED HORIZONTALLY
BENEATH THE SHEETING WITH A 3"Ø VERTICAL
VENT PIPE INSTALLED THROUGH THE SHEETING.
THE VENT PIPE SHALL EXTEND THROUGH THE
FLOORS/WALL AND 12" MIN. ABOVE THE ROOF
AND ATLEAST 10'-0" AWAY FROM ANY WINDOW
OR OTHER OPENING INTO THE CONDITIONED
SPACES OF THE BUILDING. PIPE SHALL
TERMINATE LESS THAN 2'-0" BELOW EXHAUST
POINT.

RADON-MITIGATION CONSTRUCTION

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



City of Portland
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Date: 11/13/23
Permit #: 22-197446-000-00-RS

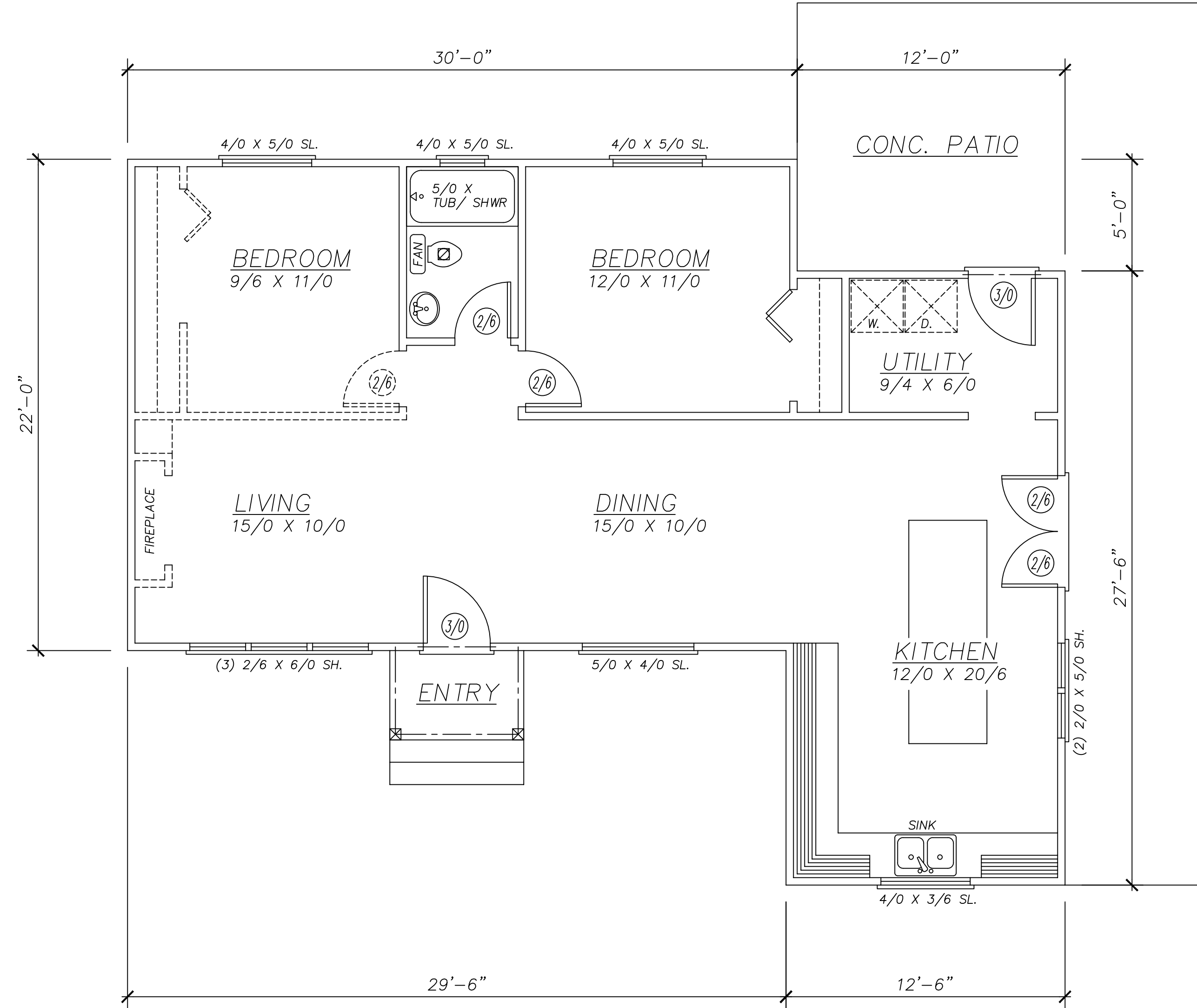
**J & E POLY SERVICES
INC.**
810 CHARMAN ST.
OREGON CITY, OR. 97045
503-962-0515

ADDRESS: 12714 BOONES FERRY RD.
LAKE OSWEGO, OR.

TITLE:
BUILDING SECTIONS
PROJECT:
CIRSTEAN RESIDENCE
OWNER:
THEO & JUDITHA CIRSTEAN

DATE:
03/18/2021
PROJECT NO.:
~
REVISIONS:
REV-1(02-21-2023)

NO:
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(EXISTING) MAIN FLOOR PLAN
SCALE: 1/4" = 1'-0" HEATED SPACE: 996 SQ. FT.

- LEGEND:
- DENOTES EXISTING WALLS.
 - DENOTES NEW WALLS.
 - DENOTES OBJECTS TO BE REMOVED
 - DENOTES BEARING POINT FROM STRUCTURE ABOVE.

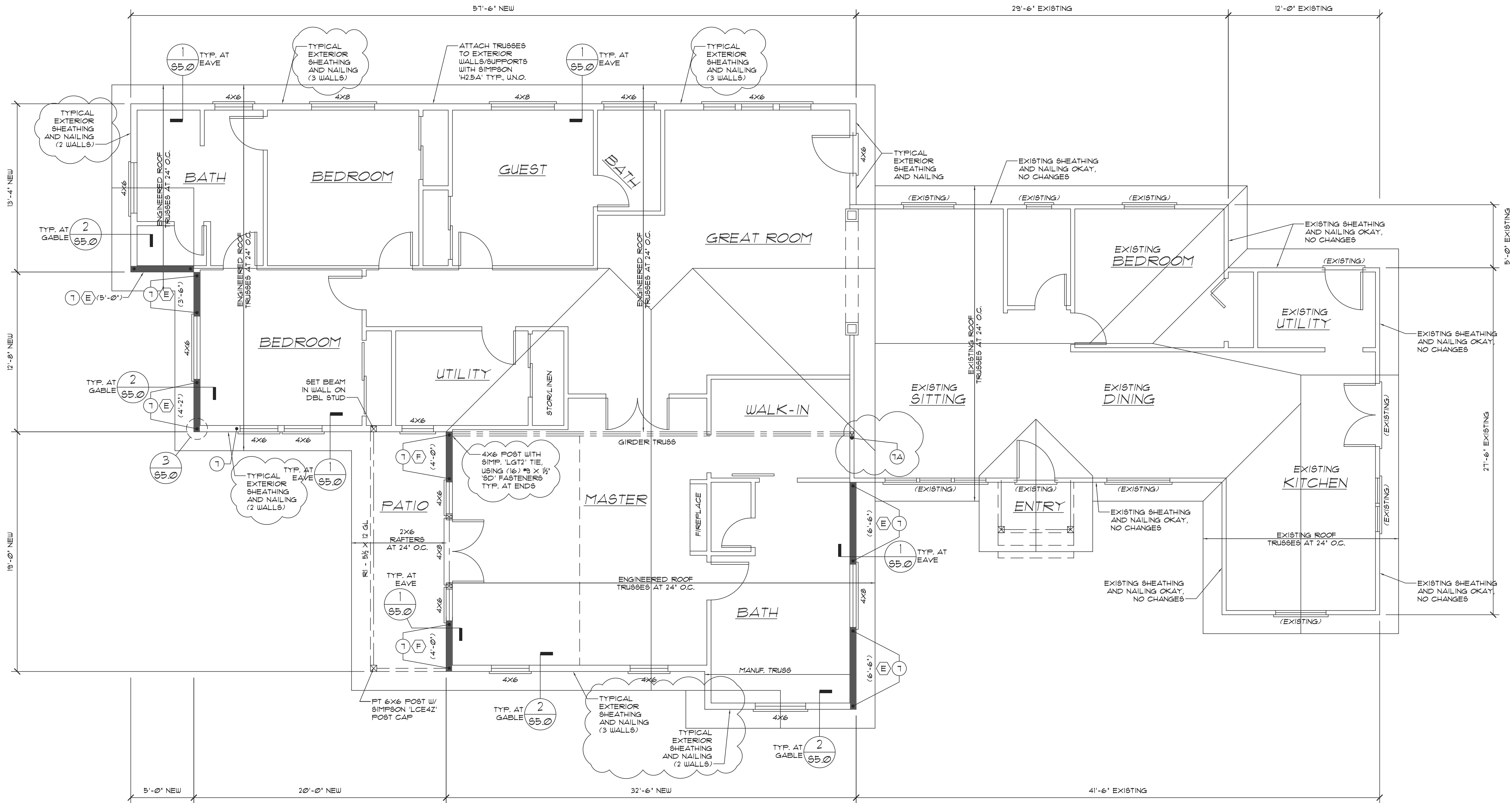
City of Portland
Reviewed for
Code Compliance

Date: 11/13/23
Permit #: 22-197446-000-00-RS

J & E POLY SERVICES
INC.
810 CHARMAN ST.
OREGON CITY, OR. 97045
503-962-0515

TITLE: EXISTING FLOOR PLAN
PROJECT: CIRSTEAN RESIDENCE
OWNER: THEO & JUDITHA CIRSTEAN
ADDRESS: 12714 BOONES FERRY RD.
LAKE OSWEGO, OR.

DATE: 03/18/2021
PROJECT NO.:
~
REVISIONS:
~



UPPER FLR SHEARWALL PLAN
SCALE = 1/4" = 1'-0"
NOTE: SEE ARCHITECTURAL SHEETS FOR INFORMATION NOT SHOWN.
NOTE: SEE SHEET S5.0 FOR NOTES AND SHEARWALL AND HOLDOWN SCHEDULES, TYP.

SHEARWALL AND HOLDOWN TYPE LEGEND:

SEE ALL PLANS AND ATTACHED SHEARWALL AND HOLDOWN SCHEDULES FOR SHEARWALL AND HOLDOWN LOCATIONS, TYPES, SHEARWALL AND HOLDOWN REQUIREMENTS AT SHEARWALLS AND HOLDOWNS.

SHEARWALL (MIN. LENGTH) (X'-X")

SHEARWALL PANEL TYPE (X)

SHEARWALL HOLDOWN TYPE (#)

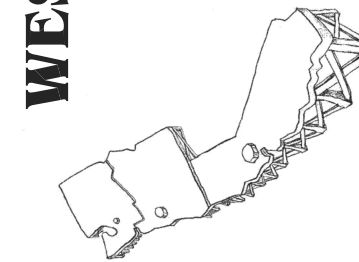
City of Portland
Reviewed for
Code Compliance

Date: 11/13/23
Permit #: 22-197446-000-00-RS



REVISIONS:	MISC. PLAN REVISIONS (B-10-23)
Δ	
Δ	
Δ	
Δ	

WEST COAST ENGINEERING, PC
STRUCTURAL ENGINEERING
2027 SE 37th Avenue
Portland, OR 97214
503-557-1600 (O)
503-557-1607 (F)
503-680-5784 (M)
seanwce@gmail.com



PROJECT NAME:
CIRSTEAN RESIDENCE

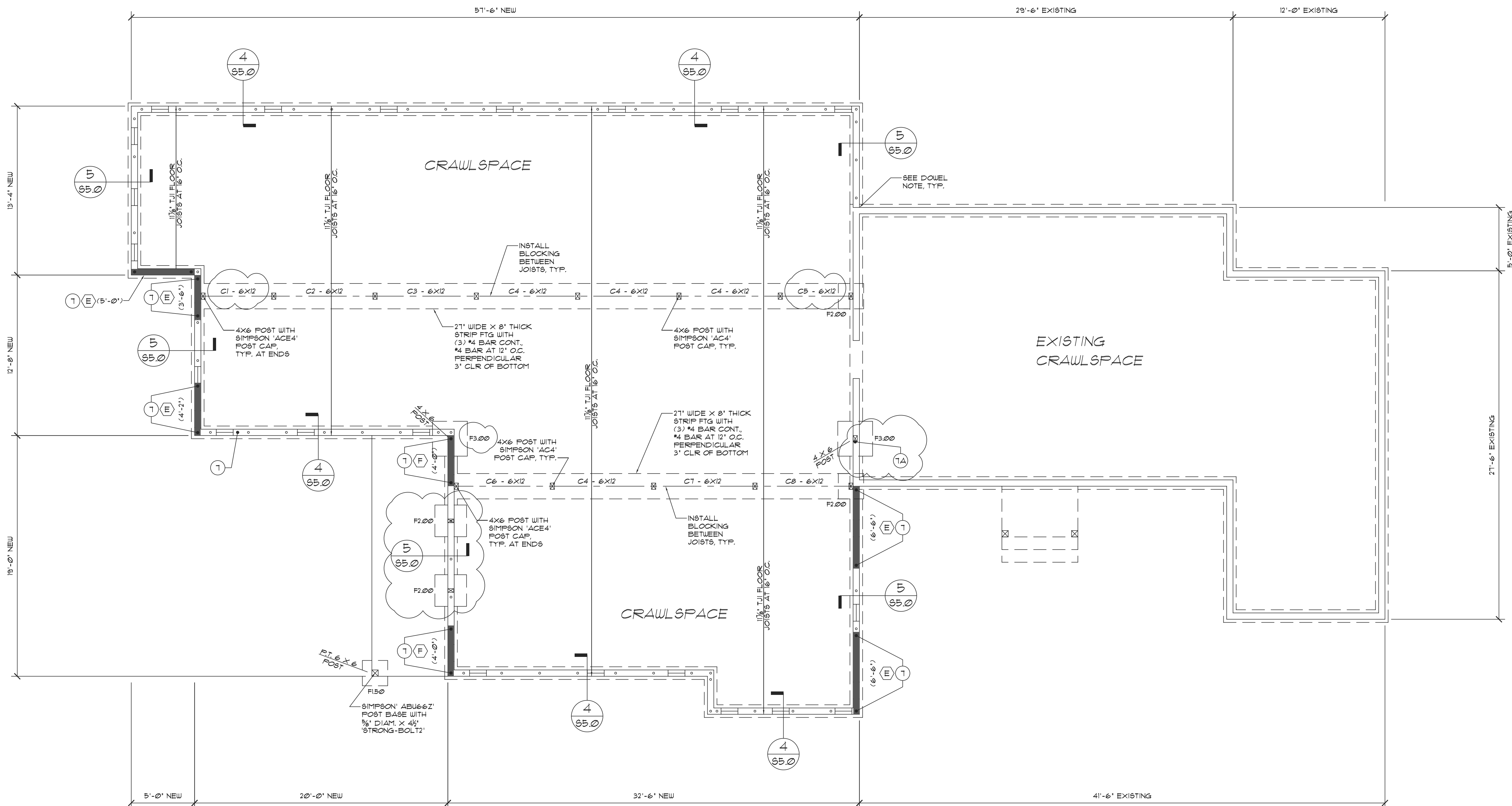
PROJECT LOCATION:
12714 9th BOONES FERRY RD
LAKE OSWEGO, OR 97035

PROJECT NO.
W21-93

DATE:
4-27-21

DRAWN BY:
SMR

DWG. NO.
S1.0



CONCRETE FOOTING SCHEDULE		
FTG TYPE	SQUARE FOOTING DIMENSIONS	STEEL REINFORCING (3' CLEAR OF BOTTOM)
F1B0	18" X 18" X 12" THICK	(2) #4 BARS EACH WAY
F200	24" X 24" X 12" THICK	(3) #4 BARS EACH WAY
F225	21" X 21" X 12" THICK	(3) #4 BARS EACH WAY
F250	30" X 30" X 12" THICK	(3) #4 BARS EACH WAY
F275	33" X 33" X 12" THICK	(3) #4 BARS EACH WAY
F300	36" X 36" X 12" THICK	(4) #4 BARS EACH WAY

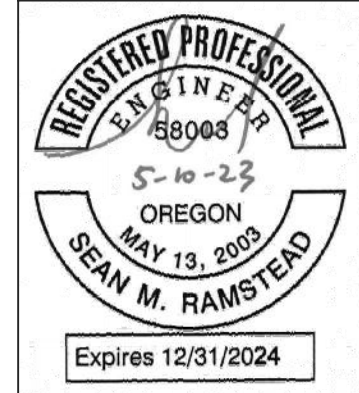
NOTE: INSTALL #4 X 2'-0" DOUEL 4" MIN. INTO MIDHEIGHT OF EXISTING CONC. STEMWALL AND FOOTING W/ SIMPSON 'SET' EPOXY LAPPING NEW HORIZ. REINFORCING, TYPICAL, WHERE NEW CONCRETE FOUNDATION MEETS EXISTING. (SPECIAL INSPECTION IS NOT REQUIRED.)

A FOUNDATION SHEARWALL PLAN
S1.1 SCALE = 1/4" = 1'-0"

NOTE: SEE ARCHITECTURAL SHEETS FOR INFORMATION NOT SHOWN. NOTE: SEE SHEET S5.0 FOR NOTES AND SHEARWALL AND HOLDOWN SCHEDULES, TYP.

SHEARWALL AND HOLDOWN TYPE LEGEND:

SEE ALL PLANS AND ATTACHED SHEARWALL AND HOLDOWN SCHEDULES FOR SHEARWALL AND HOLDOWN LOCATIONS, TYPES, SHEARWALL TYPES, AND BOLTING REQUIREMENTS AT SHEARWALLS AND HOLDOWNS.
SHEARWALL (MIN. LENGTH) (X'-X")
SHEARWALL PANEL TYPE (X)
SHEARWALL HOLDOWN TYPE (#)
Date: 11/13/23
Permit #: 22-197446-000-00-RS



REVISIONS:	MISC. PLAN REVISIONS (B-10-23)
Δ	
Δ	
Δ	
Δ	

WEST COAST ENGINEERING, PC
STRUCTURAL ENGINEERING
2027 SE 37th Avenue
Portland, OR 97214
503-557-1600 (O)
503-557-1607 (F)
503-680-5784 (M)
seanwce@gmail.com

PROJECT NAME:
CIRSTEAN RESIDENCE
PROJECT LOCATION:
12714 SW BOONES FERRY RD
LAKE OSWEGO, OR 97035

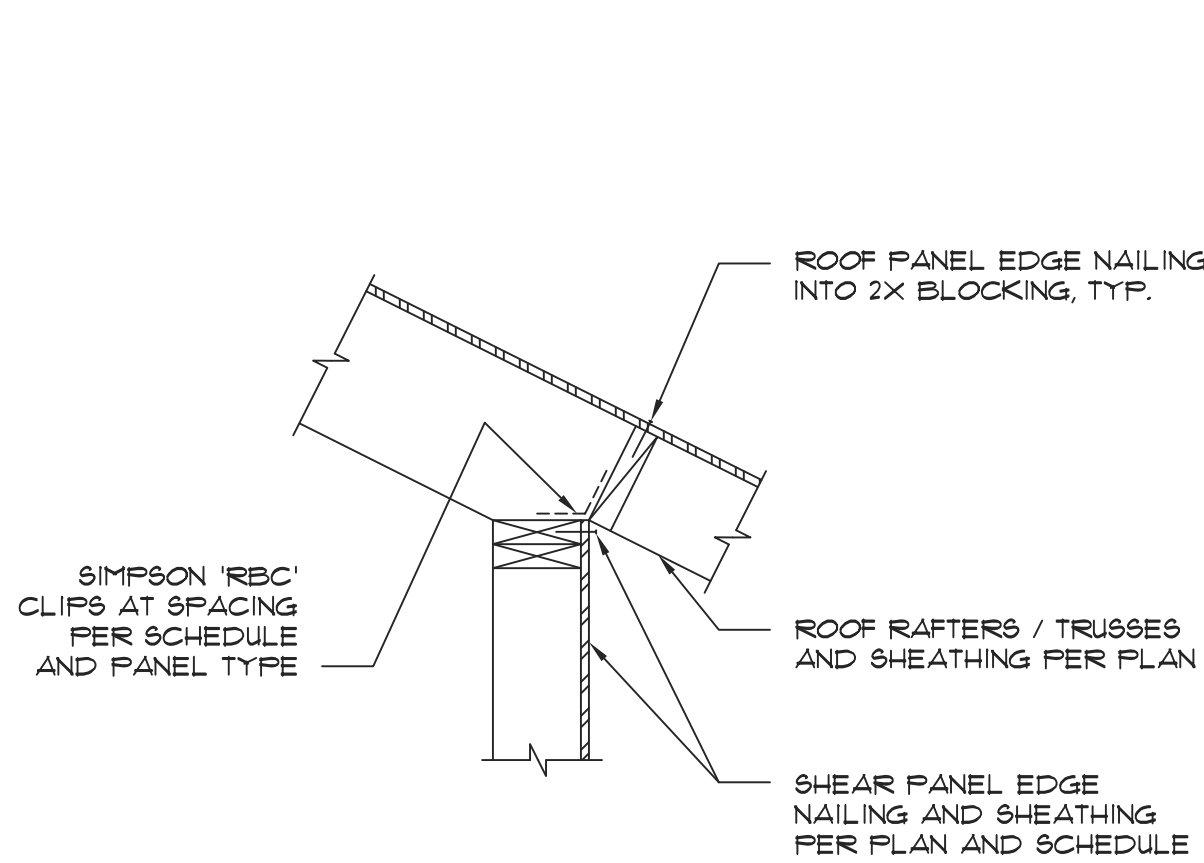
PROJECT NO.
W21-93

DATE:
4-27-21
DRAWN BY:
SMR

DWG. NO.
S1.1

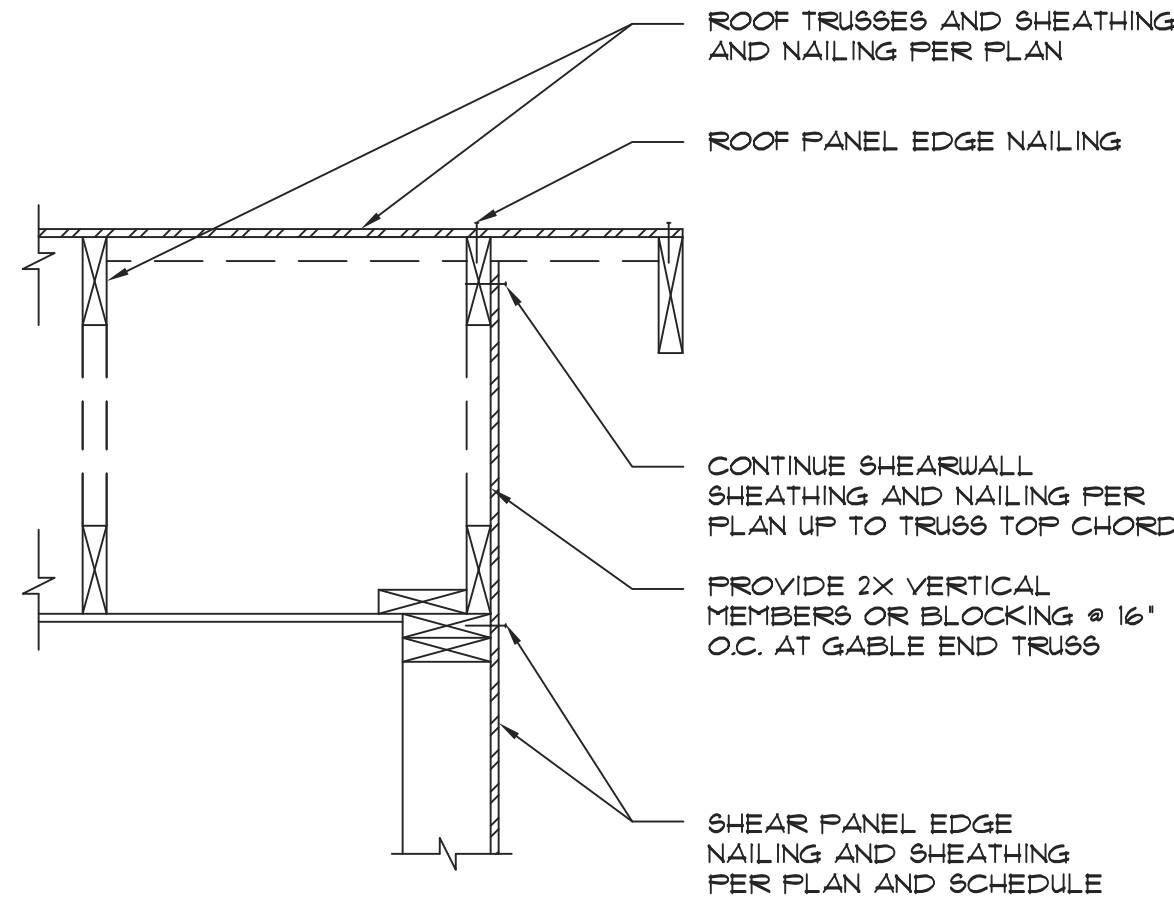
ROOF SHEAR TRANSFER NAILING SCHEDULE		
PANEL TYPE	ROOF PANEL EDGE NAILING	SIMPSON 'RBC' CLIPS
TYP.	8d @ 6' O.C.	26' O.C.
D	8d @ 4' O.C.	20' O.C.
E	8d @ 3' O.C.	15' O.C.
F	10d @ 3' O.C.	9' O.C.
G	10d @ 2½' O.C.	8' O.C.
H	10d @ 2' O.C.	6' O.C.

NOTE: RBC CLIP MAY BE INSTALLED WITH ¾" MAXIMUM GAP BETWEEN 2X BLOCKING AND DOUBLE TOP PLATE



1 SHEAR TRANSFER AT RF
SCALE = 1" = 1'-0"

ROOF SHEAR TRANSFER NAILING SCHEDULE		
PANEL TYPE	ROOF PANEL EDGE NAILING	SIMPSON 'A35' CLIPS
TYP.	8d @ 6' O.C.	40' O.C.
D	8d @ 4' O.C.	32' O.C.
E	8d @ 3' O.C.	22' O.C.
F	10d @ 3' O.C.	16' O.C.
G	10d @ 2½' O.C.	12' O.C.
H	10d @ 2' O.C.	10' O.C.



2 SHEAR TRANSFER AT RF
SCALE = 1" = 1'-0"

ROOF SHEATHING REQUIREMENTS:

INSTALL 15/32" APA RATED CDX PLYWOOD (OR APA RATED ORIENTED STRAND BOARD) WITH 8d COMMON NAILS @ 6' O.C. AT PANEL EDGES AND AT 12' O.C. IN THE FIELD OF THE PANEL. INSTALL PANEL EDGE NAILING INTO BLOCKING AT ALL EXTERIOR WALLS AND INTERIOR SHEARWALLS.

EXT. PLYWOOD WALL SHEATHING REQUIREMENTS:

INSTALL 7/16" APA RATED CDX PLYWOOD (OR APA RATED ORIENTED STRAND BOARD) WITH 8d COMMON NAILS @ 6' O.C. AT PANEL EDGES AND AT 12' O.C. IN THE FIELD OF THE PANEL. BLOCK ALL PANEL EDGES. ALL JOINTS SHALL OCCUR ON A COMMON MEMBER.

ROOF/FLOOR/WALL FRAMING NOTES:

- 1) STUD BEARING WALLS ARE 2X6 DFL#2 STUDS @ 16' O.C., UNO.
- 2) SAUN LUMBER MEMBERS TO BE DOUGLAS FIR LARCH #2 GRADE, UNO.
- 3) GLULAM BEAMS (GL) ARE TO BE DOUG FIR GRADE (24F-V4).
- 4) PARALLAM BEAMS (PBL) ARE TO BE TRUSS JOIST (20E).
- 5) MICROLAM BEAMS (LVL) ARE TO BE TRUSS JOIST (19E).
- 6) TIMBERSTRAND BEAMS (LSL) ARE TO BE TRUSS JOIST (19SE).
- 7) USE 4X6 DFL#2 MIN. AT HEADER LOCATIONS, UNO.

CONCRETE FOUNDATION:

- 1) MIN. 28 DAY CONCRETE COMPRESSIVE STRENGTH = 2500 PSI
- 2) REINFORCING TO BE ASTM A615, GRADE 60
- 3) WELDED WIRE MESH TO MEET ASTM A185 STANDARD

SEE ALL FLOOR PLANS FOR LOCATIONS OF SHEARWALL STRAPS AND CAST-IN-PLACE HOLDOWN ANCHORS, UNLESS NOTED OTHERWISE. INSTALL (1) #4 HORIZONTAL BAR AT TOP OF WALL EXTENDING FOR 6" MINIMUM BEYOND BOTH SIDES OF ALL CAST-IN-PLACE HOLDOWN ANCHORS (HOOK AROUND CORNERS IF NECESSARY). INSTALL #4 VERTICAL BARS AT 24" O.C. FOR EXTENT OF REQUIRED HORIZONTAL BARS FOR HOLDOWNS.

LOCATE ALL FOUNDATION WALL PENETRATIONS (VENTS, DUCTS, BEAM POCKETS, ETC.) AWAY FROM HOLDOWN ANCHOR LOCATIONS AT LEAST 12" MINIMUM. IF WALL PENETRATION FALLS WITHIN REQUIRED HORIZONTAL BAR FOR HOLDOWNS, BEND HORIZONTAL BAR DOWN 18" MINIMUM AT EACH EDGE OF PENETRATION AND ADD #4 HORIZONTAL BAR, 6'-0" LONG CENTERED UNDER EACH WALL PENETRATION.

SEE PLANS FOR SHEARWALL HOLDOWN LOCATIONS AND SEE SHEARWALL SCHEDULE FOR SILL BOLT SIZE AND SPACING REQUIREMENTS FOR SHEARWALL TYPES.

DESIGN CRITERIA

NOMINAL WIND SPEED / EXP 55 MPH B

SEISMIC DESIGN CATEGORY D

ZIP CODE: 97035, 9a: 0.9% Fa: 120

TYP. DIMENSIONS FOR STD. COMMON NAILS

NAIL DIMENSION	PENNYWEIGHT				
	6d	8d	10d	16d	20d
LENGTH	2"	2 1/2"	3"	3 1/2"	4"
DIAMETER	.113"	.131"	.148"	.162"	.192"
HEAD DIAMETER	.266"	.281"	.312"	.344"	.406"

Values have been taken from Appendix L of the 2005 National Design Specification for Wood Construction by the American Forest & Paper Association

PLYWOOD SHEARWALL SCHEDULE (SEE NOTES 1-3)

PANEL TYPE	MIN. PANEL SHEATHING THICKNESS	PANEL EDGE NAILING	¾" DIAM. SILL J-BOLT SPACING (1" EMBED)	16d NAIL SPACING AT SILL PLATES	SHEARWALL CAPACITY (PLF)	NOTES
TYP.	7/16"	8d @ 6' O.C.	48' O.C.	12' O.C.	200	
D	7/16"	8d @ 6' O.C.	48' O.C.	10' O.C.	260	
E	7/16"	8d @ 4' O.C.	42' O.C.	6' O.C.	380	
F	7/16"	8d @ 3' O.C.	32' O.C.	5' O.C.	490	SEE NOTE 4
G	7/16"	10d @ 3' O.C.	24' O.C.	4' O.C.	600	SEE NOTE 4
H	7/16"	10d @ 2' O.C.	24' O.C.	3' O.C.	710	SEE NOTES 4,5
J	7/16" EA. SIDE	8d @ 3' O.C.	20' O.C.	(2) SIMPSON SDWS Ø22Ø x 6" @ 10' O.C.	980	SEE NOTES 4,5
K	7/16" EA. SIDE	10d @ 3' O.C.	16' O.C.	(2) SIMPSON SDWS Ø22Ø x 6" @ 8' O.C.	1200	SEE NOTES 4,5
L	7/16" EA. SIDE	10d @ 2' O.C.	12' O.C.	(2) SIMPSON SDWS Ø22Ø x 6" @ 6' O.C.	1540	SEE NOTES 4,5

NOTES:

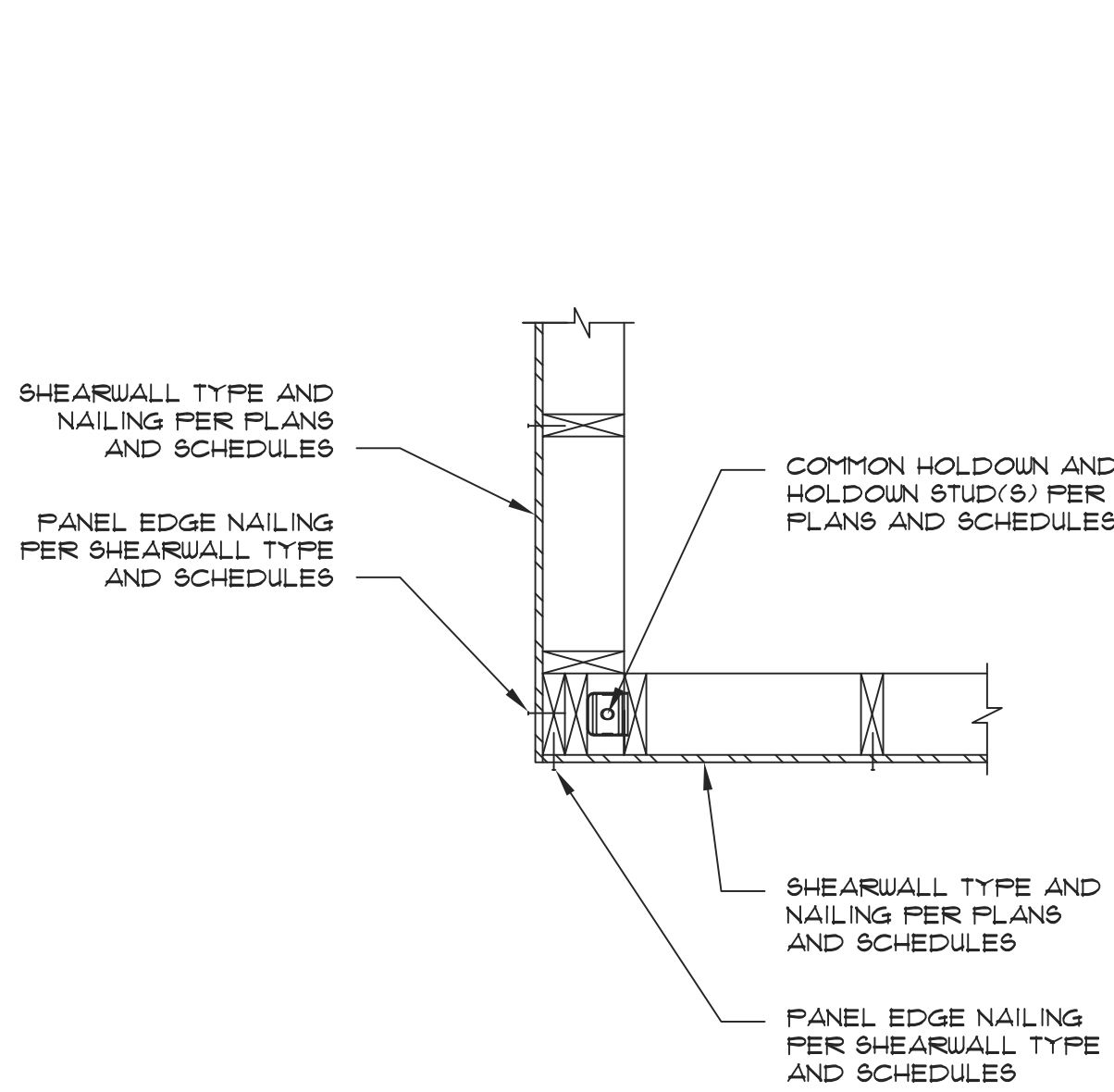
- 1) Sheathing, all-veneer plywood, plywood siding, except Group 5 Species. Minimum nailing shall be 8d nails @ 6' O.C. at panel edges and 12' O.C. in the field of the panel, UNO. All Nails to be 'Common' or 'Galvanized Box' type nails. Galvanized nails shall be hot-dipped or tumbled.
- 2) All panel edges backed with 2x or wider framing using Douglas Fir-Larch No.2 or better lumber. Panels may be installed either horizontally or vertically. 2x stud spacing shall not exceed 16' O.C. At sheathings with sheathing each side, studs must be 2x6 min. All anchor bolts shall have a minimum 3' x 3' x Ø22S thick plate washers.
- 3) Shearwall panel edge nailing shall be installed at shearwall and stud(s) where holdown is attached. If holdown requires multiple studs then install 1/2 panel edge nailing to each stud. Face nail multiple studs at holdowns together with 16d nails @ 12" O.C. minimum, UNO.
- 4) At these panels only, all framing at adjoining panel edges shall be 3" nominal or wider, except that (2) 2x studs may be used in place of 3x or greater material when 2x studs are attached together with nailing specified in shearwall schedule for all plates.
- 5) At these panels only, foundation sill plates shall not be less than a single 3" nominal member and sill plate fasteners should be staggered into 2x blocking and rim joist. Fasten 2x blocking to rim joist with same fasteners and spacing, typ.

SHEARWALL HOLDOWN SCHEDULE (SEE NOTES 1-6)

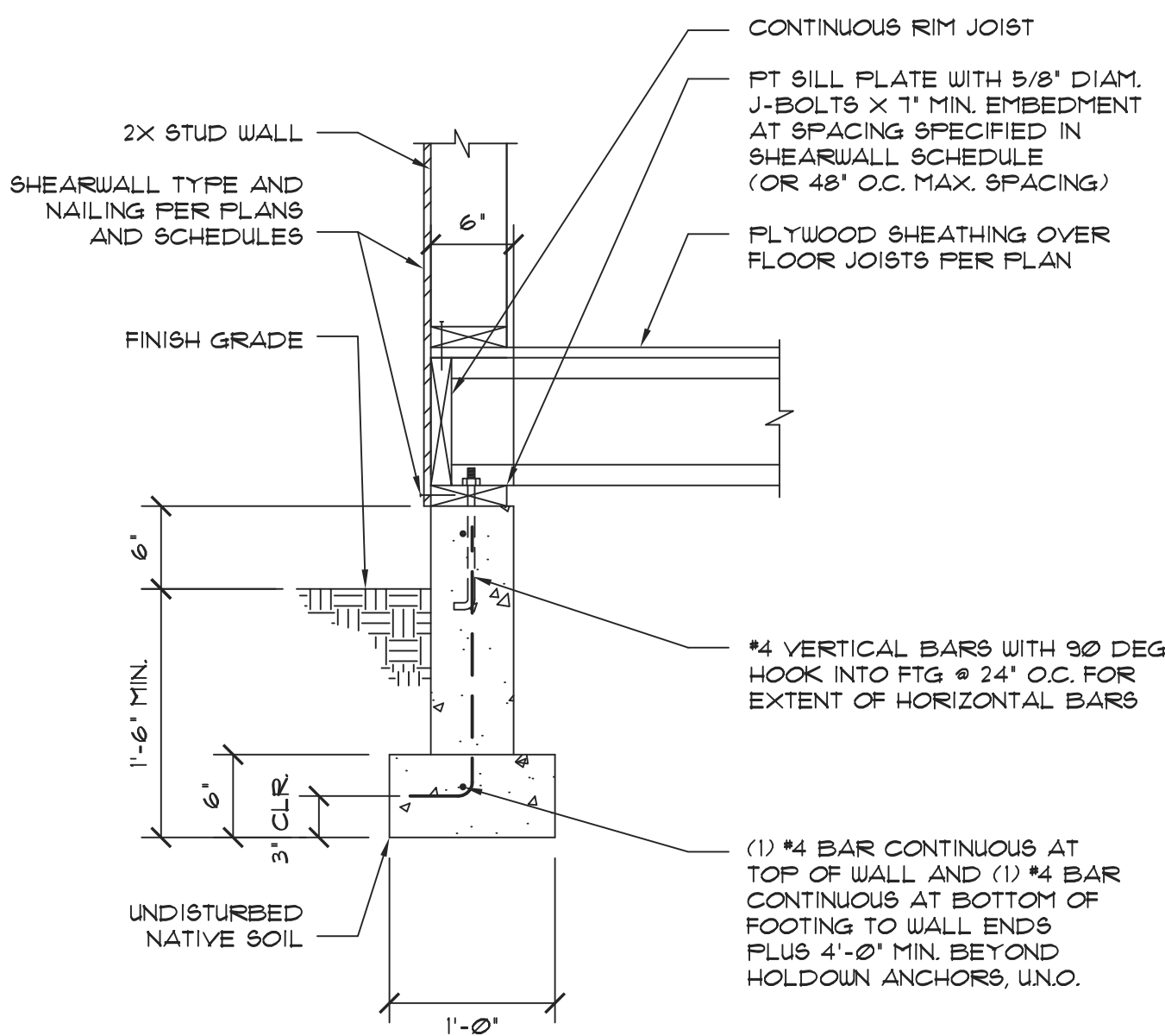
HOLDOWN TYPE	SIMPSON BRAND OR EQUIVALENT	HOLDOWN CAPACITY (LBS)	INSTALLATION NOTES
1	M8TA24	900	Install strap across floor line into face of 2x stud with (3) 16d common nails each end of strap. Install equal lengths of strap above and below floor joist.
2	M8TA36	1400	Install strap across floor line into face of 2x stud with (3) 16d common nails each end of strap. Install equal lengths of strap above and below floor joist.
3	M8T37	2465	Install strap across floor line into face of 3x or Dbl 2x studs with (10) 16d common nails each end of strap. Attach Dbl 2x together with 16d common nails @ 8" O.C. Install equal lengths of strap above and below floor joist.
4	M8T48	3635	Install strap across floor line into face of 3x or Dbl 2x studs with (16) 16d common nails each end of strap. Attach Dbl 2x together with 16d common nails @ 8" O.C. Install equal lengths of strap above and below floor joist.
5	M8T60	4830	Install strap across floor line into face of 3x or Dbl 2x studs with (23) 16d common nails each end of strap. Attach Dbl 2x together with 16d common nails @ 8" O.C. Install equal lengths of strap above and below floor joist.
6	T822	1215	Install strap across floor line into face of 2x stud above and Dbl 2x or 4x min. beam below with (3) 16d common nails each end of strap. Install equal lengths of strap above and below floor line.
7	HDU2	3075	Center holdown with 4x or Dbl 2x studs (min) and attach to stud(s) with (6) Simpson 1/4" x 2 1/2" SD5S Screws. (Attach Dbl 2x together with 16d common nails @ 48" O.C.) Install 5/8" Dia. Simpson 180PØ24" per manufacturer's specifications.
7A	HDU2	3075	Center holdown with 4x or Dbl 2x studs (min) and attach to stud(s) with (6) Simpson 1/4" x 2 1/2" SD5S Screws. (Attach Dbl 2x together with 16d common nails @ 48" O.C.) Install 5/8" Dia. Simpson 180PØ24" per manufacturer's specifications.
8	HDU4	4565	Center holdown with 4x or Dbl 2x studs (min) and attach to stud(s) with (10) Simpson 1/4" x 2 1/2" SD5S Screws. (Attach Dbl 2x together with 16d common nails @ 36" O.C.) Install 5/8" Dia. Simpson 180PØ24" per manufacturer's specifications.
8A	HDU4	4565	Center holdown with 4x or Dbl 2x studs (min) and attach to stud(s) with (10) Simpson 1/4" x 2 1/2" SD5S Screws. (Attach Dbl 2x together with 16d common nails @ 36" O.C.) Install 5/8" Dia. Simpson 180PØ24" per manufacturer's specifications.
9	HDU5	5645	Center holdown with 4x stud min. and attach to stud with (14) Simpson 1/4" x 2 1/2" SD5S Screws. Install 5/8" Dia. Simpson 180PØ24" per manufacturer's specifications.
10	HDU8	6910	Center holdown with 4x stud min. and attach to stud with (20) Simpson 1/4" x 2 1/2" SD5S Screws. Install 5/8" Dia. Simpson 180PØ24" per manufacturer's specifications. (Reduce capacity to 5730 lb if installed at end of stud(s)).

NOTES:

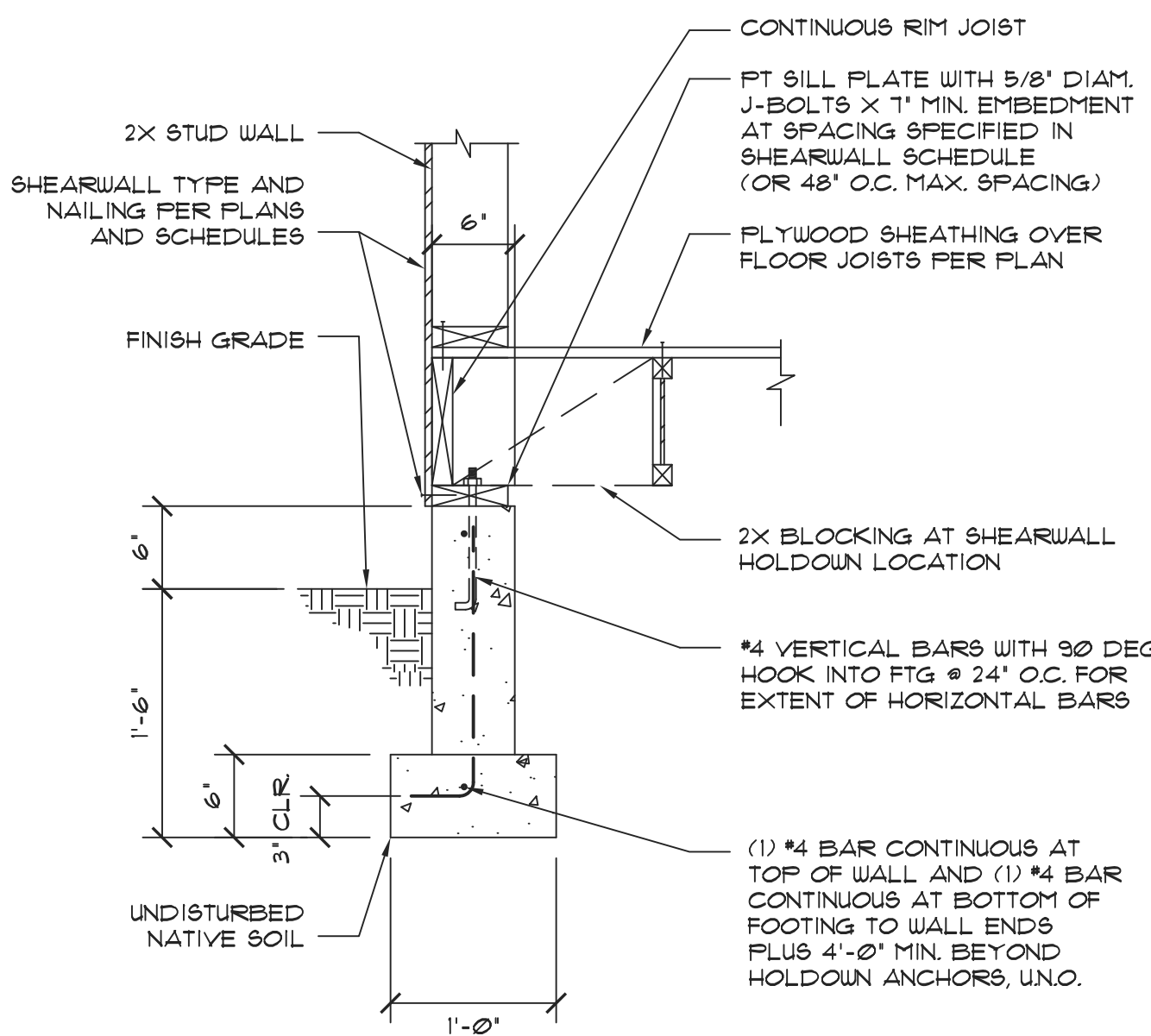
- 1) Anchor City of Portland or Std. J-Bolt or Headed bolt (ASTM A36 threaded rod with double nut and washer may be substituted). Center holdown on stud(s) (minimum 3" from edge of concrete).
- 2) All studs, where holdown attaches, to be Douglas Fir-Larch or lumber with equivalent species.
- 3) Holdowns at corners shall attach to corner studs. Holdowns away from corners shall attach to door or window jamb full height studs. Holdowns must attach to studs receiving shear panel edge nailing. See Shearwall Schedule for Holdown Installation Notes for all other.
- 4) If holdowns 1 through 10 occur at floor to floor connection, use bolted connection from Detail 10-23.
- 5) Unless specified otherwise, install continuous horizontal reinforcing bar 2" below top of concrete at all holdowns. At holdown anchor bolt place bar on side closest to edge of concrete. Bar shall extend 5' minimum in both directions from holdown anchor bolt. For extent of horizontal bars, install #4 vertical bars @ 24" O.C. with 6" hook into footing. Tie horizontal bar to anchor bolt prior to pouring concrete.
- 6) At holdowns 5, 10 attach to 4x6 studs minimum.



3 COMMON HOLDOWN DETAIL
SCALE = 1" = 1'-0"

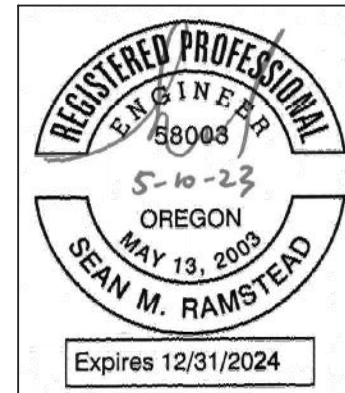


4 DETAIL AT EXT. WALL FTG.
SCALE = 1" = 1'-0"



5 DETAIL AT EXT. WALL FTG.
SCALE = 1" = 1'-0"

SUBMITTED 6.26.2023



REVISONS:
Δ MISC. PLAN REVISIONS (B-10-23)
Δ
Δ
Δ

WEST COAST ENGINEERING, PC
STRUCTURAL ENGINEERING

2027 SE 37th Avenue
Portland, OR 97214
503-557-1600 (O)
503-557-1607 (F)
503-680-5784 (M)
scanwce@gmail.com



PROJECT NAME:
CIRSTEAN RESIDENCE

PROJECT LOCATION:
12714 SW BOONES FERRY RD
LAKE OSWEGO, OR 97035

PROJECT NO.

W21-93

DATE:

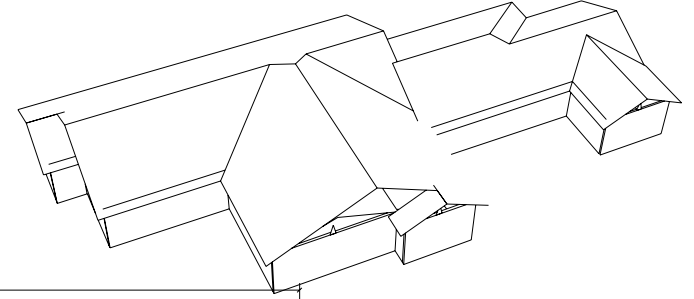
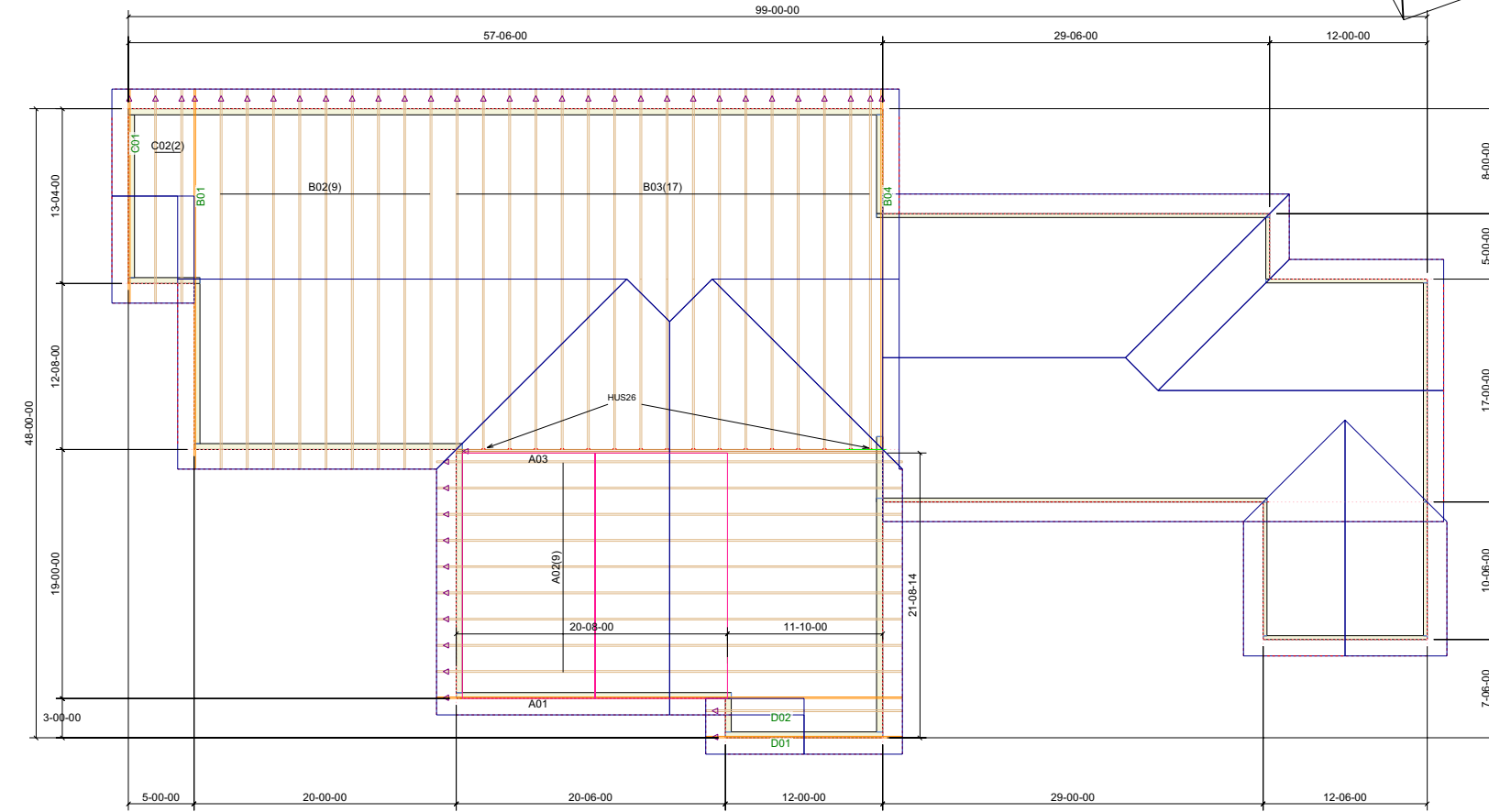
4-27-21

DRAWN BY:

SMR

PLG. NO.

55.0



SUBMITTED 4/12/2023

Client: Theo Cirstean	
Plan : Cirstean Addition	Project #
Sales : Cliff Puckett	21-CP0891
Site : Lake Oswego, OR	Lot :
Pitch: 6/12	Loading: 25-7-0-10
Overhang 18"	Date: 3/29/2021

PRECISION RUSS & LUMBER
 11500 NE Jennifer St
 Clackamas, OR 97015
 (503) 566-2983
 (503) 566-2647

City of Portland
 Reviewed for code compliance
 Date: 11/13/23
 Project #: 22-197448-000-00-RS



MiTek USA, Inc.

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

Re: 21-CP0891

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Precision Roof Trusses, Inc.

Pages or sheets covered by this seal: R74858528 thru R74858538

My license renewal date for the state of Oregon is December 31, 2023.



February 21, 2023

Baxter, David

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

City of Portland
Reviewed for code compliance
REPLACEMENT
SUBMITTED 4/12/2023

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015, 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:05 2023 Page 1
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|-1-6-0| 5-8-9 | 10-6-12 | 16-3-0 | 20-8-0 | 26-3-10 | 32-6-0 | 34-0-0 |
|-1-6-0| 5-8-9 | 4-10-3 | 5-8-4 | 4-5-0 | 5-7-10 | 6-2-6 | 1-6-0 |
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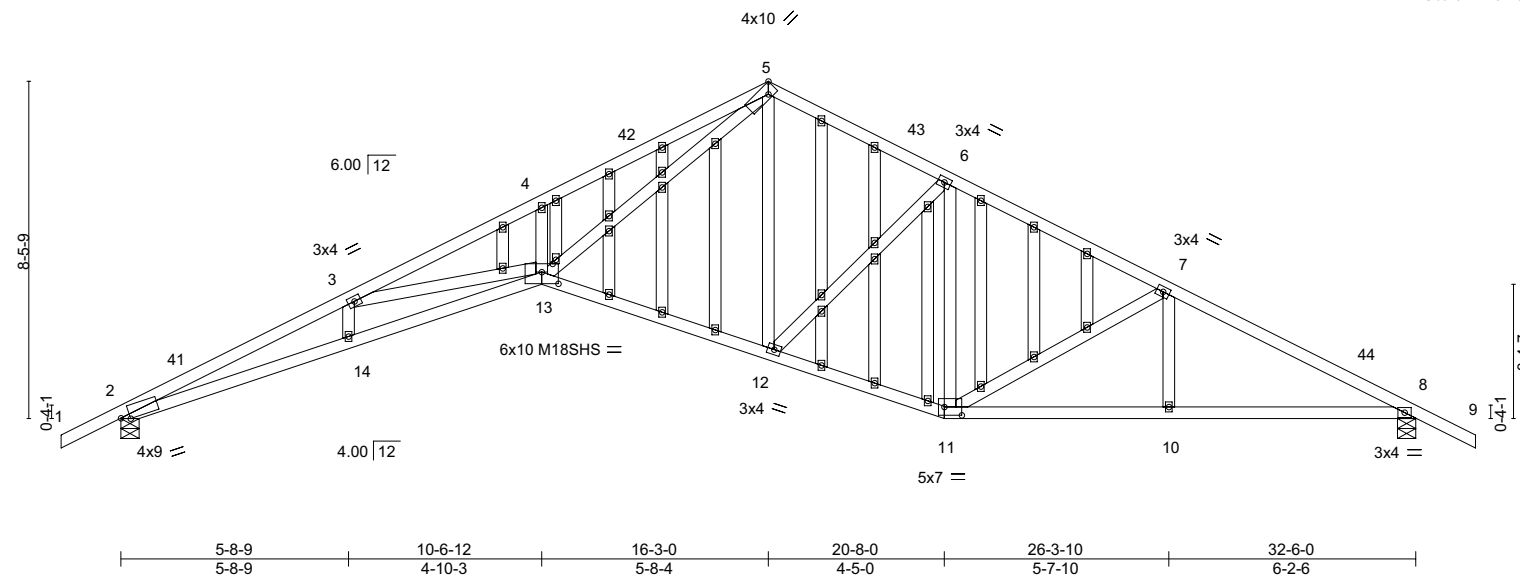


Plate Offsets (X,Y)-- [2:0-2-12,Edge], [5:0-2-12,Edge], [11:0-5-4,0-2-8], [13:0-5-0,0-3-8], [23:0-1-4,0-1-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.60	13-14	>636	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-1.02	13-14	>377	180	M18SHS	185/148
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.62	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 198 lb	FT = 0%

LUMBER-		BRACING-
TOP CHORD	2x4 DF No.1&Btr	TOP CHORD
BOT CHORD	2x4 DF No.2 *Except*	Structural wood sheathing directly applied or 2-1-15 oc purlins.
	2-13: 2x4 DF No.1&Btr	BOT CHORD
WEBS	2x4 HF Std *Except*	Rigid ceiling directly applied or 2-2-0 oc bracing.
	5-13: 2x4 DF No.2	
OTHERS	2x4 HF Std	

REACTIONS. (size) 2=0-5-8, 8=0-5-8
 Max Horz 2=-171(LC 17)
 Max Uplift 2=-340(LC 12), 8=-340(LC 13)
 Max Grav 2=1456(LC 1), 8=1456(LC 1)

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

TOP CHORD	2-3=-6057/1351, 3-4=-5462/1117, 4-5=-5485/1252, 5-6=-1892/452, 6-7=-1972/446, 7-8=-2494/496
BOT CHORD	2-14=-1335/5544, 13-14=-1335/5554, 12-13=-210/1738, 11-12=-222/1791, 10-11=-334/2136, 8-10=-334/2136
WEBS	3-13=-524/304, 4-13=-345/255, 5-13=-998/4180, 5-12=-152/320, 7-11=-518/224, 7-10=0/251

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-0, Interior(1) 1-9-0 to 16-3-0, Exterior(2R) 16-3-0 to 19-6-0, Interior(1) 19-6-0 to 34-0-0 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
- 3) 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.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 2x3 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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.
- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=340, 8=340.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2023
February 21, 2023

Job	Truss	Truss Type	Qty	Ply	
21-CP0891	A02	Roof Special	9	1	
Job Reference (optional)					

R74858529

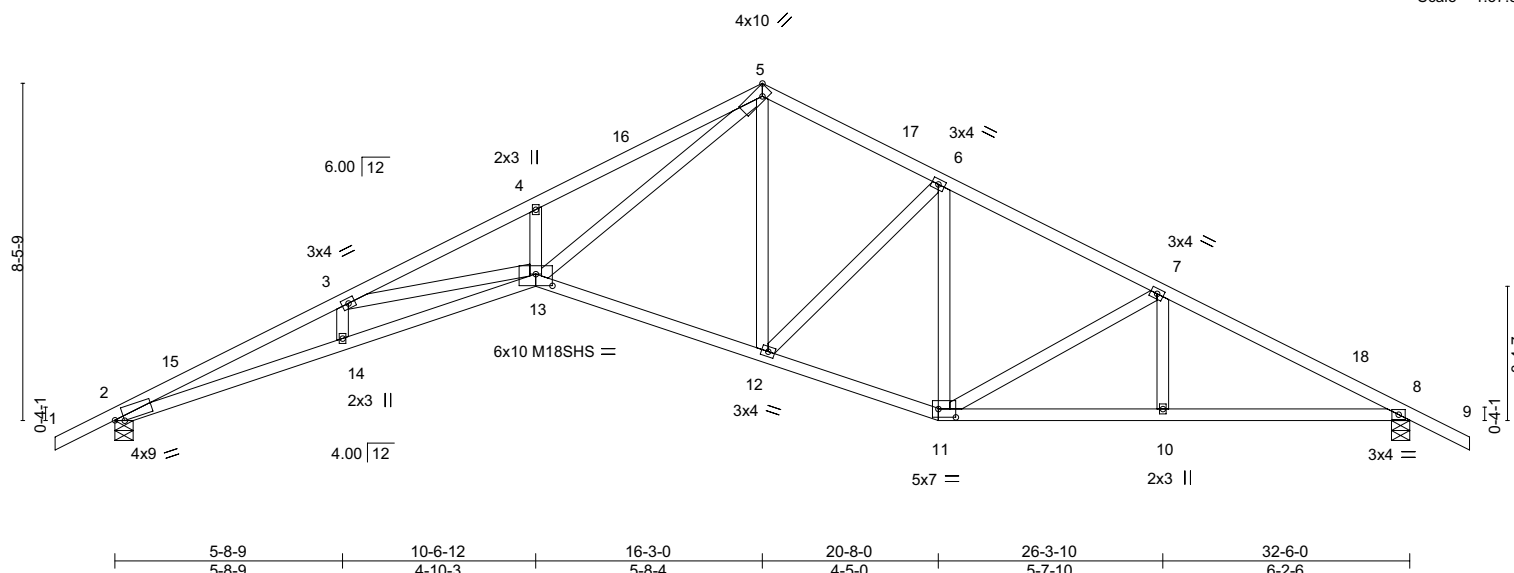
Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:06 2023 Page 1

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-1-6-0	5-8-9	10-6-12	16-3-0	20-8-0	26-3-10	32-6-0	34-0-0
1-6-0	5-8-9	4-10-3	5-8-4	4-5-0	5-7-10	6-2-6	1-6-0

Scale = 1:57.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.60 13-14	>636	240	MT20	185/148
TCDL 7.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-1.02 13-14	>377	180	M18SHS	185/148
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.62 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 149 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 DF No.1&Btr
 BOT CHORD 2x4 DF No.2 *Except*
 2-13: 2x4 DF No.1&Btr
 WEBS 2x4 HF Std *Except*
 5-13: 2x4 DF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-1-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

(size) 2=0-5-8, 8=0-5-8
 Max Horz 2=-171(LC 17)
 Max Uplift 2=-340(LC 12), 8=-340(LC 13)
 Max Grav 2=1456(LC 1), 8=1456(LC 1)

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

TOP CHORD 2-3=-6057/1351, 3-4=-5462/1117, 4-5=-5485/1252, 5-6=-1892/452, 6-7=-1972/446,
 7-8=-2494/496
 BOT CHORD 2-14=-1335/5544, 13-14=-1335/5554, 12-13=-210/1738, 11-12=-222/1791,
 10-11=-334/2136, 8-10=-334/2136
 WEBS 3-13=-524/304, 4-13=-345/255, 5-13=-998/4180, 5-12=-152/320, 7-11=-518/224,
 7-10=0/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-0, Interior(1) 1-9-0 to 16-3-0, Exterior(2R) 16-3-0 to 19-6-0, Interior(1) 19-6-0 to 34-0-0 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=340, 8=340.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2023
 February 21, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

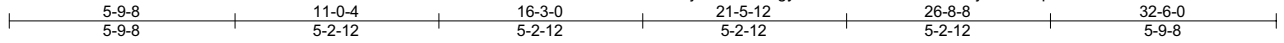
City of Portland
 Reviewed for code compliance
 MiTek USA, Inc.
 1445 Sunrise Avenue, Suite 270
 Roseville, CA 95661
 Project #: 22-197446-000-00-RS

Job	Truss	Truss Type	Qty	Ply	
21-CP0891	A03	Roof Special Girder	1	2	R74858530

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:09 2023 Page 1

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5x6 ||

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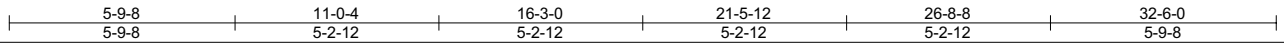
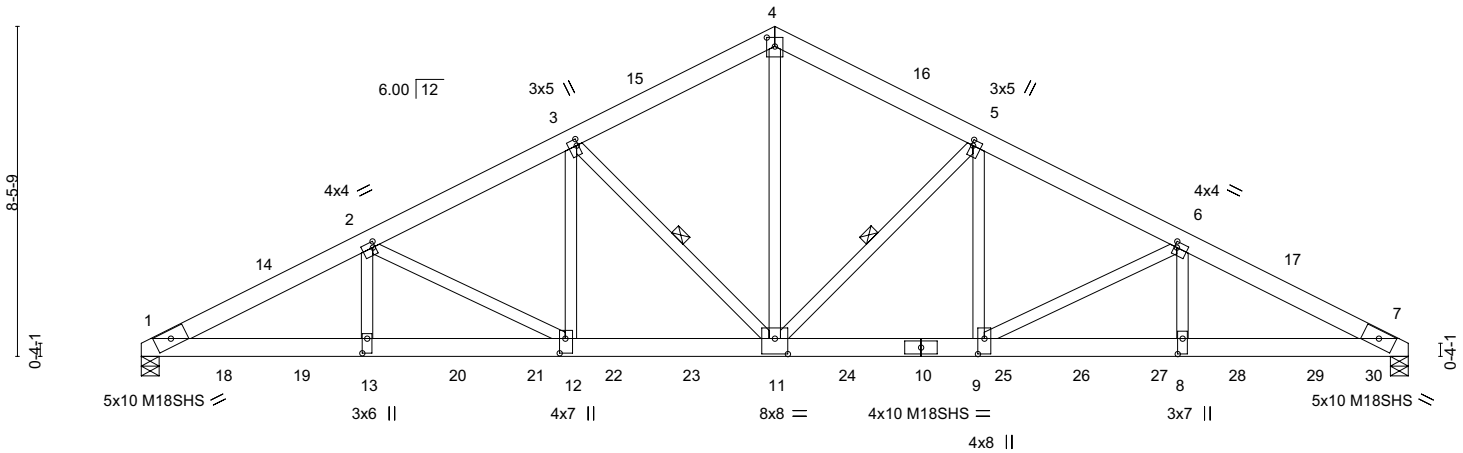


Plate Offsets (X,Y)--	[2:0-0-12,0-1-12], [3:0-2-0,0-0-8], [4:0-2-12,0-2-8], [5:0-1-12,0-0-8], [6:0-0-12,0-1-12], [8:0-4-12,0-1-8], [9:0-4-12,0-2-0], [11:0-4-0,0-4-12], [12:0-4-8,0-1-12], [13:0-4-8,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.34	9-11	>999	240	MT20 185/148
TCDL 7.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.55	9-11	>699	180	M18SHS 220/195
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.95	Horz(CT)	0.18	7	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 407 lb FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x6 DF 1800F 1.6E	TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins.
BOT CHORD 2x6 DF 2500F 2.2E *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
7-10: 2x6 DF 2400F 2.0E	WEBS 1 Row at midpt 5-11, 3-11
WEBS 2x4 HF Std *Except*	
4-11,5-9,3-12: 2x4 DF No.2	

REACTIONS.	(size) 1=0-5-8, 7=0-5-8
	Max Horz 1=153(LC 41)
	Max Uplift 1=-2142(LC 12), 7=-2327(LC 13)
	Max Grav 1=9623(LC 2), 7=10484(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-19041/4214, 2-3=-15211/3414, 3-4=-11591/2678, 4-5=-11591/2678, 5-6=-15309/3436, 6-7=-19261/4263
BOT CHORD	1-13=-3868/17058, 12-13=-3868/17058, 11-12=-2993/13562, 9-11=-2912/13648, 8-9=-3763/17270, 7-8=-3763/17270
WEBS	4-11=-2160/9855, 5-11=-4713/1182, 5-9=-1035/4862, 6-9=-4092/1022, 6-8=-620/3212, 3-11=-4591/1155, 3-12=-1004/4724, 2-12=-3948/989, 2-13=-602/3129

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-5-12, Interior(1) 3-5-12 to 16-3-0, Exterior(2R) 16-3-0 to 19-6-0, Interior(1) 19-6-0 to 32-3-4 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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=2142, 7=2327.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2



RENEWAL DATE: 12-31-2023
February 21, 2023

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Job	Truss	Truss Type	Qty	Ply	
21-CP0891	A03	Roof Special Girder	1	2	R74858530

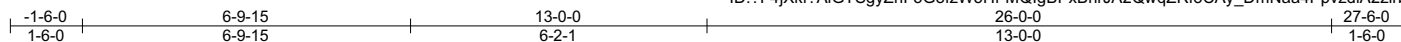
NOTES-
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1113 lb down and 251 lb up at 2-0-12, 1113 lb down and 251 lb up at 4-0-12, 1113 lb down and 251 lb up at 6-0-12, 1113 lb down and 251 lb up at 8-0-12, 1113 lb down and 251 lb up at 10-0-12, 1113 lb down and 251 lb up at 12-0-12, 1113 lb down and 251 lb up at 14-0-12, 1113 lb down and 251 lb up at 16-0-12, 1113 lb down and 251 lb up at 18-0-12, 1113 lb down and 251 lb up at 20-0-12, 1113 lb down and 251 lb up at 22-0-12, 1113 lb down and 251 lb up at 24-0-12, 1113 lb down and 251 lb up at 26-0-12, 1113 lb down and 251 lb up at 28-0-12, and 1113 lb down and 251 lb up at 30-0-12, and 1116 lb down and 248 lb up at 31-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-64, 4-7=-64, 1-7=-20
Concentrated Loads (lb)
Vert: 10=-1056(B) 11=-1056(B) 13=-1056(B) 18=-1056(B) 19=-1056(B) 20=-1056(B) 21=-1056(B) 22=-1056(B) 23=-1056(B) 24=-1056(B) 25=-1056(B) 26=-1056(B) 27=-1056(B) 28=-1056(B) 29=-1056(B) 30=-1059(B)

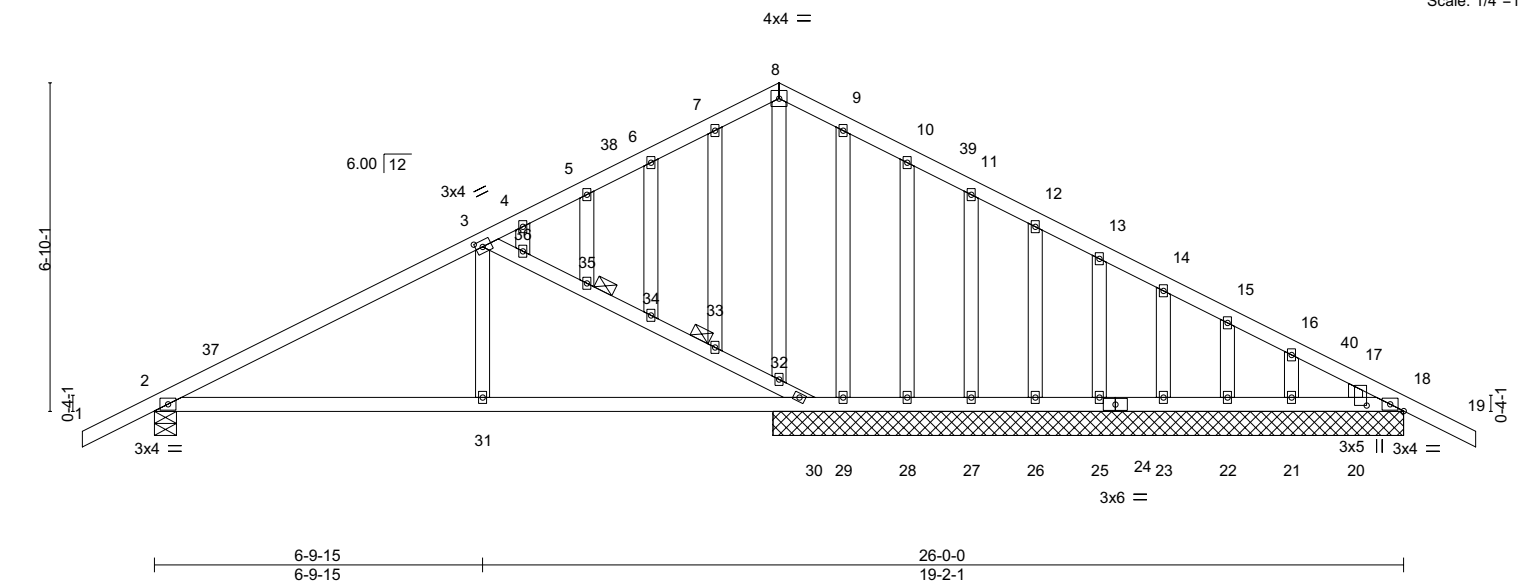
Job	Truss	Truss Type	Qty	Ply	
21-CP0891	B01	KINGPOST	1	1	R74858531

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:11 2023 Page 1
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Scale: 1/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.04	2-31	>999	240	185/148
TCDL 7.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.09	2-31	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.02	18	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 142 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 HF Std

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
JOINTS 10-0-0 oc bracing: 2-31,30-31.
1 Brace at Jt(s): 33, 35

REACTIONS.

All bearings 13-1-8 except (jt=length) 2=0-5-8.

(lb) - Max Horz 2=-139(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 28, 27, 26, 25, 23, 22, 21, 18 except 2=-230(LC 12),
29=-187(LC 3)

Max Grav All reactions 250 lb or less at joint(s) 29, 28, 27, 26, 25, 23, 22, 21, 20 except 2=735(LC 1),
30=649(LC 3), 18=286(LC 1)

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

TOP CHORD 2-3=-925/265, 3-4=-289/192

BOT CHORD 2-31=-252/743, 30-31=-252/743

WEBS 3-36=-710/299, 35-36=-643/254, 34-35=-670/274, 33-34=-688/286, 32-33=-686/290,
30-32=-697/271, 3-31=0/290

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 27-6-0 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
- 3) All plates are 2x3 MT20 unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 27, 26, 25, 23, 22, 21, 18 except (jt=lb) 2=230, 29=187.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2023
February 21, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

City of Portland
Reviewed for code compliance
MiTek USA, Inc.
1400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Project #: 22-197446-000-00-RS

Job	Truss	Truss Type	Qty	Ply	
21-CP0891	B02	Common	9	1	R74858532

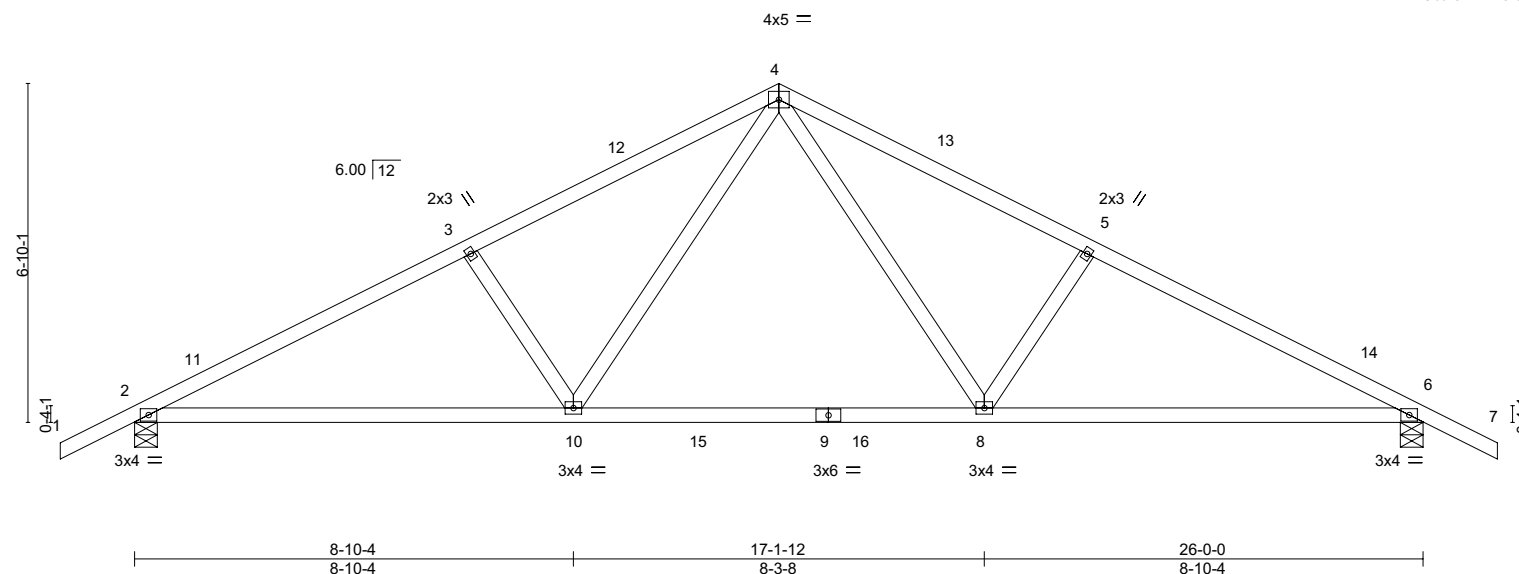
Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:13 2023 Page 1

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-1-6-0	6-9-6	13-0-0	19-2-10	26-0-0	27-6-0
1-6-0	6-9-6	6-2-10	6-2-10	6-9-6	1-6-0

Scale = 1:46.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.16	8-10	>999	240	MT20
TCDL 7.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.28	6-8	>999	180	185/148
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.05	6	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 106 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 HF Std

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-5-8, 6=0-5-8
Max Horz 2=139(LC 12)
Max Uplift 2=-282(LC 12), 6=-282(LC 13)
Max Grav 2=1218(LC 2), 6=1218(LC 2)

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

TOP CHORD 2-3=-1913/427, 3-4=-1747/430, 4-5=-1747/430, 5-6=-1913/427
BOT CHORD 2-10=-368/1653, 8-10=-133/1118, 6-8=-283/1653
WEBS 4-8=-161/721, 5-8=-387/277, 4-10=-161/721, 3-10=-387/277

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 27-6-0 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=282, 6=282.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2023
February 21, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

City of Portland
Reviewed for code compliance
MiTek USA, Inc.
1400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Project #: 22-197446-000-00-RS

Job	Truss	Truss Type	Qty	Ply	
21-CP0891	B03	Common	17	1	R74858533

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:14 2023 Page 1

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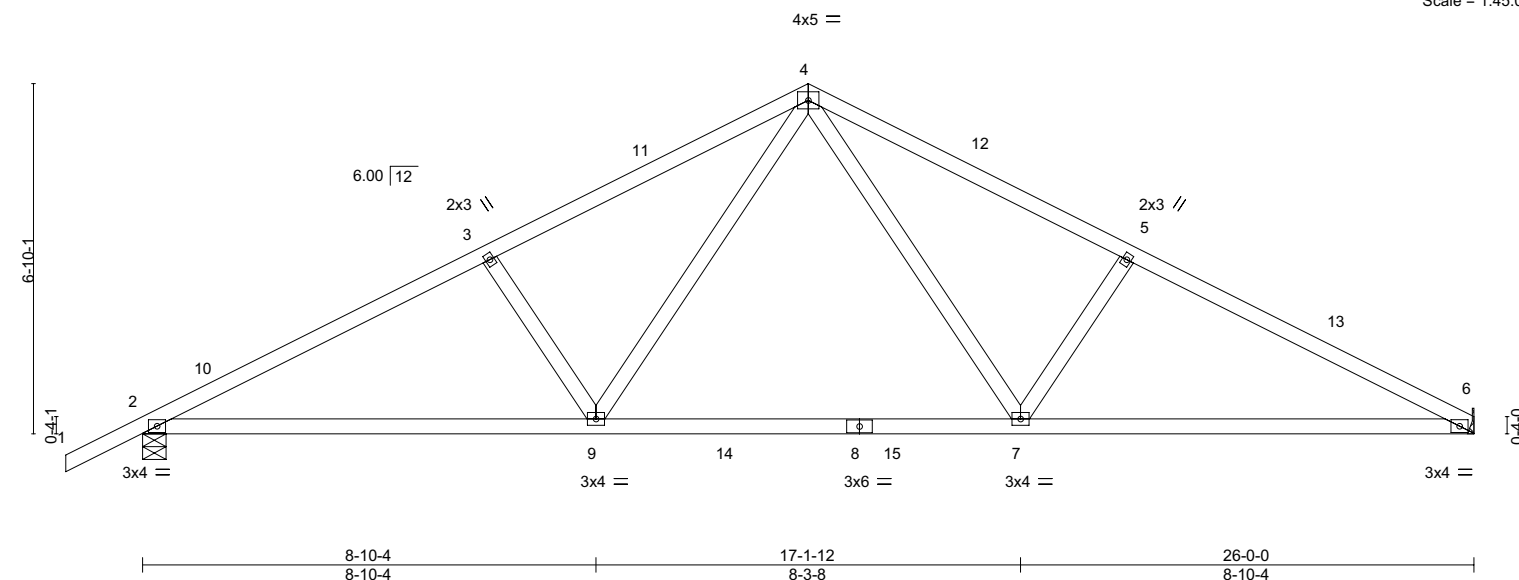


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 25.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	-0.17	6-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.33	6-7	>937	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.06	6	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
					Weight: 103 lb		FT = 0%		

LUMBER-

TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 HF Std

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-11-12 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-5-8
Max Horz 2=153(LC 16)
Max Uplift 6=-231(LC 13), 2=-284(LC 12)
Max Grav 6=1133(LC 2), 2=1229(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1935/441, 3-4=-1768/443, 4-5=-1799/463, 5-6=-1972/462
BOT CHORD 2-9=-384/1673, 7-9=-150/1139, 6-7=-333/1717
WEBS 4-7=-179/765, 5-7=-420/290, 4-9=-160/719, 3-9=-388/277

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 25-11-4 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=231, 2=284.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2023
February 21, 2023

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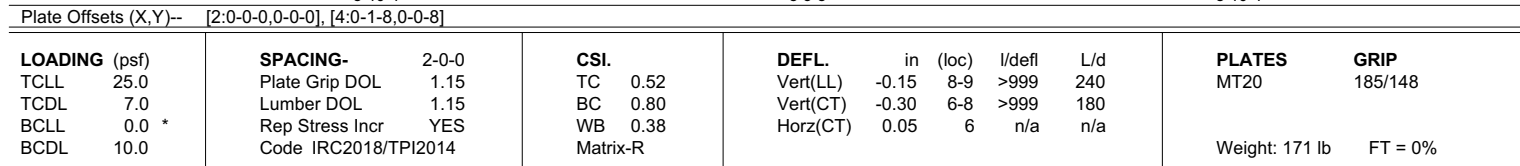
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

City of Portland
Reviewed for code compliance
MiTek USA, Inc.
1400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Project #: 22-197446-000-00-RS

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015, 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:16 2023 Page 1
ID:~F4jXkf?AIGTSgyZnF5G8fzW5HfjN5ZE7?KW0yT9BpnM_E_vEfqn1nzYFMHY3ELTrFzirbb
-1-6-0 6-9-6 13-0-0 19-2-10 26-0-0
1-6-0 6-9-6 6-2-10 6-2-10 6-9-6
Scale = 1:45.8



REACTIONS. (size) 6=0-5-8, 2=0-5-8
 Max Horz 2=153(LC 16)
 Max Uplift 6=-229(LC 13), 2=-283(LC 12)
 Max Grav 6=1126(LC 2), 2=1221(LC 2)

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

TOP CHORD	2-3=-1919/438, 3-4=-1753/440, 4-5=-1764/456, 5-6=-1932/453
BOT CHORD	2-9=-383/1659, 8-9=-148/1124, 6-8=-323/1673
WEBS	4-8=-173/737, 5-8=-399/284, 4-9=-160/720, 3-9=-388/277

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDF=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 25-9-4 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
- 3) 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.
- 4) All plates are 2x3 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=229, 2=283.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

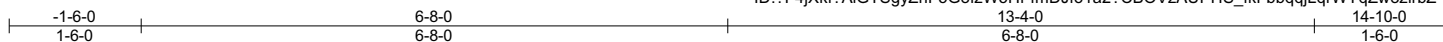


RENEWAL DATE: 12-31-2023
February 21, 2023

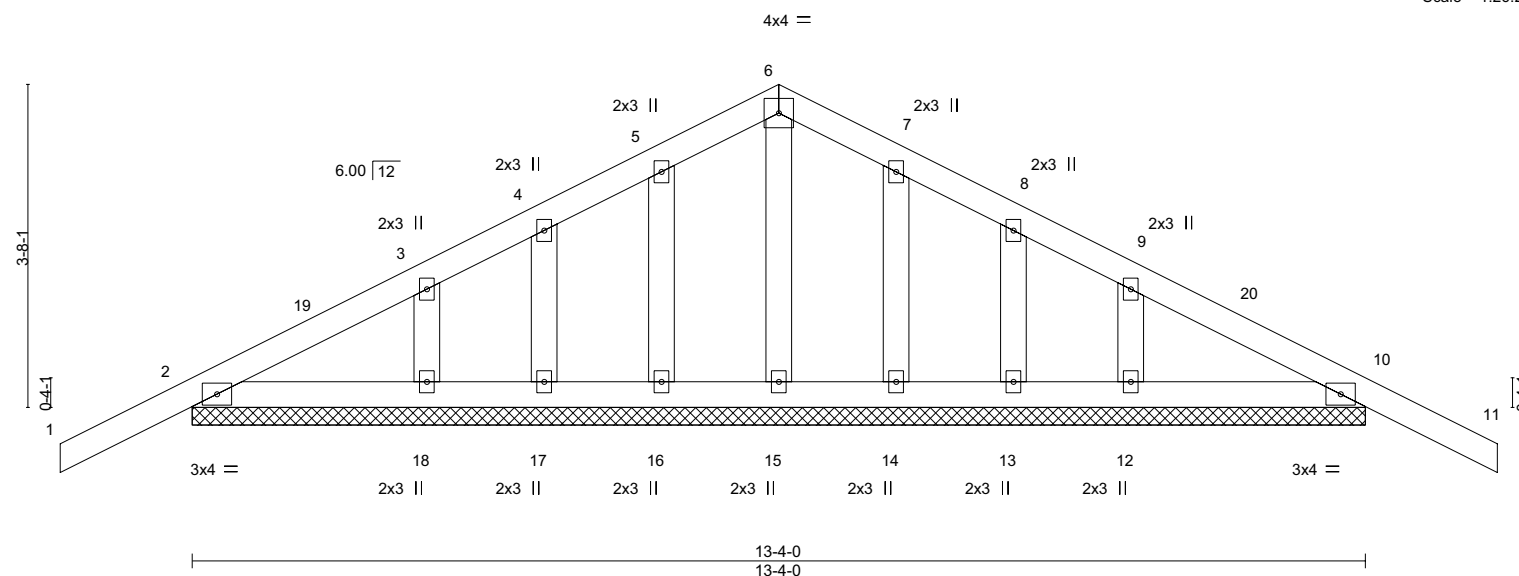
Job	Truss	Truss Type	Qty	Ply	
21-CP0891	C01	Common Supported Gable	1	1	R74858535
Job Reference (optional)					

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:18 2023 Page 1
ID: F4jXkf?AIGTSgyZnF5G8fzW5Hf-fmDJfo1a2?CBOVzAUPHS_fkFbbqqjLqrWYqZw8zirbZ



Scale = 1:26.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.01	11	n/r	120	MT20	185/148
TCDL 7.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.01	11	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 59 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
OTHERS 2x4 HF Std

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.

REACTIONS.

All bearings 13-4-0.
(lb) - Max Horz 2=78(LC 12)
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-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-8-0, Corner(3R) 6-8-0 to 9-8-0, Exterior(2N) 9-8-0 to 14-10-0 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2023
February 21, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015, 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:19 2023 Page 1
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1-6-0 6-8-0 6-8-0 1-6-0
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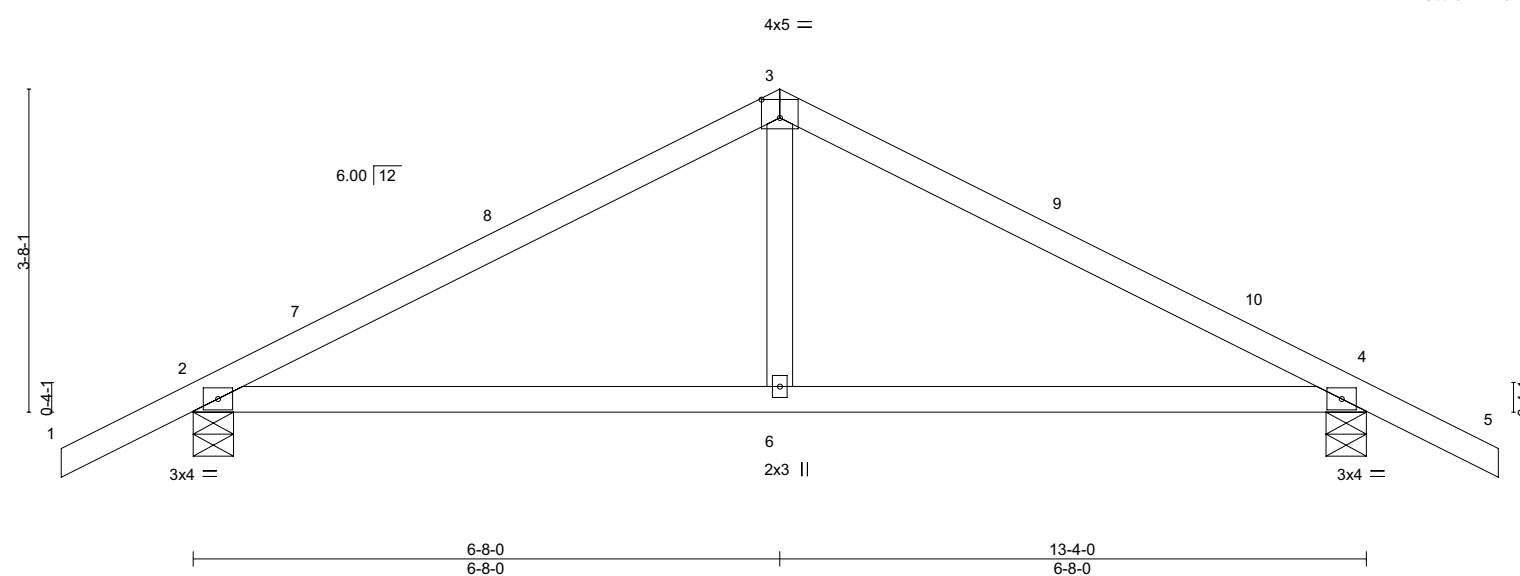


Plate Offsets (X,Y)-- [3:0-2-8,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.04	4-6	>999	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.08	4-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 47 lb	FT = 0%

LUMBER-		BRACING-
TOP CHORD	2x4 DF No.2	TOP CHORD
BOT CHORD	2x4 DF No.2	BOT CHORD
WEBS	2x4 HF Std	
		Structural wood sheathing directly applied or 6-0-0 oc purlins.
		Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 4=0-5-8
 Max Horz 2=78(LC 12)
 Max Uplift 2=-169(LC 12), 4=-169(LC 13)
 Max Grav 2=651(LC 1), 4=651(LC 1)

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

TOP CHORD	2-3=-762/296, 3-4=-762/296
BOT CHORD	2-6=-116/600, 4-6=-116/600
WEBS	3-6=0/296

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDF=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-8-0, Exterior(2R) 6-8-0 to 9-8-0, Interior(1) 9-8-0 to 14-10-0 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=169, 4=169.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R202.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2023
February 21, 2023



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

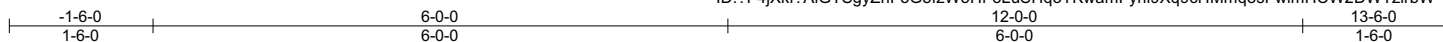
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



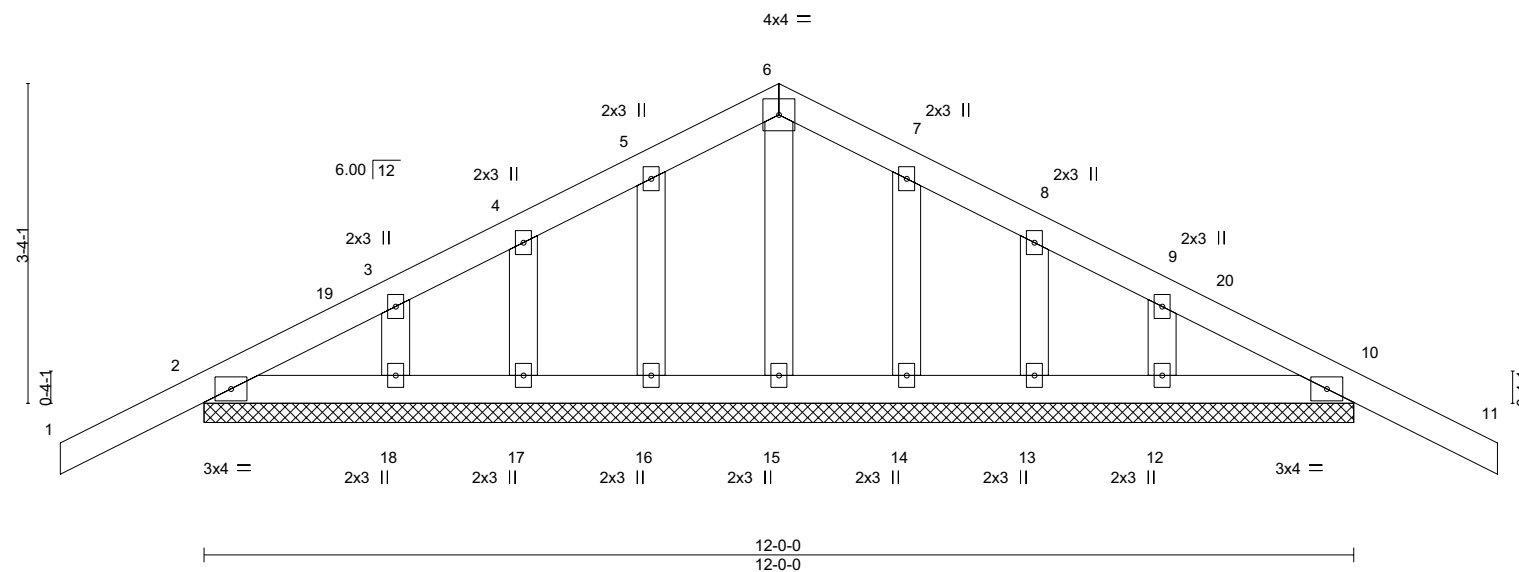
Job	Truss	Truss Type	Qty	Ply	
21-CP0891	D01	Common Supported Gable	1	1	R74858537

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:21 2023 Page 1
ID: ?F4jXkf?AIGTSgyZnF5G8fzW5Hf-3LuSHq3TKwamFyhI9Xq9cHMmqosFwimHCW2DWTzibW



Scale: 1/2"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.01	11	n/r	MT20	185/148
TCDL 7.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	11	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 53 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
OTHERS 2x4 HF Std

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.

REACTIONS.

All bearings 12-0-0.
(lb) - Max Horz 2=72(LC 12)
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-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 13-6-0 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2023
February 21, 2023

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

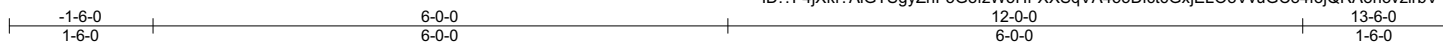
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

City of Portland
Reviewed for code compliance
MiTek USA, Inc.
1445 Sunrise Avenue, Suite 270
Roseville, CA 95661
Project #: 22-197446-000-00-RS

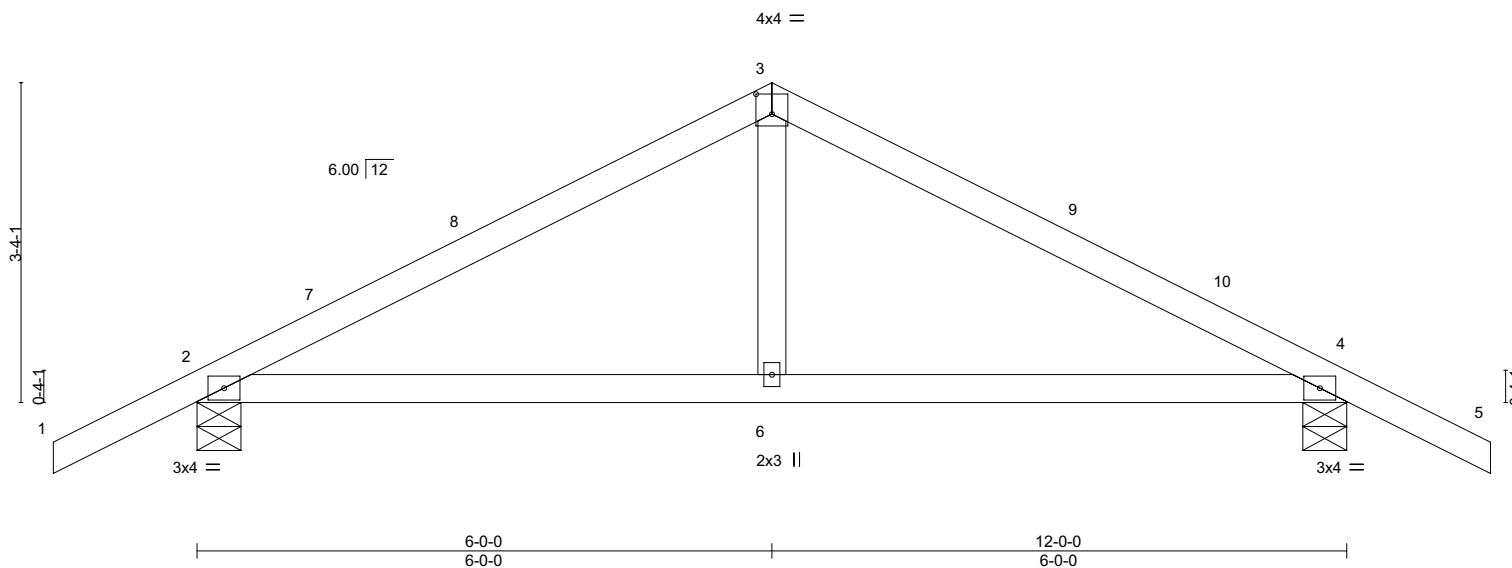
Job	Truss	Truss Type	Qty	Ply	
21-CP0891	D02	Common	1	1	
					R74858538

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Feb 21 17:26:22 2023 Page 1
ID: ?F4jXkf?AIGTSgyZnF5G8fzW5Hf-XXSqVA455Dict6GxjELO8VvuGC84f8jQRAon3vzirbV



Scale: 1/2"=1'



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.02	4-6	>999	240	
TCDL	7.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.05	4-6	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	4	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							
								Weight: 43 lb		FT = 0%	

LUMBER-

TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 HF Std

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.

REACTIONS.

(size) 2=0-5-8, 4=0-5-8
Max Horz 2=72(LC 16)
Max Uplift 2=-158(LC 12), 4=-158(LC 13)
Max Grav 2=595(LC 1), 4=595(LC 1)

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

TOP CHORD 2-3=-671/280, 3-4=-671/280
BOT CHORD 2-6=-103/525, 4-6=-103/525
WEBS 3-6=0/263

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-6-0 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=158, 4=158.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2023
February 21, 2023

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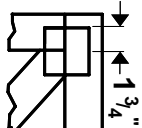
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

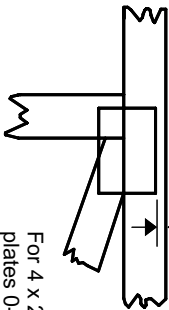
City of Portland
Reviewed for code compliance
MiTek USA, Inc.
1400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Project #: 22-197446-000-00-RS

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

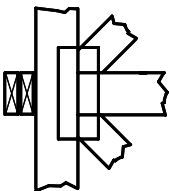
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/TFP1: 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

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

