BLOWER BUILDING ROOF FRAMING PLAN

① BB-5 SCALE: 1/4" = 1'-0"

Labels around roof framing plan:

- HIP JACK TRUSSES @ 2'-0" O.C. (TYP EACH CORNER)
- PIPE PENETRATION HEADER (TYP. OF 8) 2x8's
- SUPPLY LOUVER HEADER (4) 2x8's
- STEP DOWN HIP TRUSSES @ 2'-0" O.C. (TYP EACH HIP)
- PRE-ENGINEERED WOOD MONO TRUSSES @ 2'-0" O.C.
- STEP DOWN HIP TRUSSES @ 2'-0" O.C. (TYP EACH HIP)
- HIP JACK TRUSSES @ 2'-0" O.C. (TYP EACH CORNER)
- STUDS OF NORTH WALL SHALL EACH BE PLACED UNDER A TRUSS (TYP)
- EXHAUST FAN HEADER (4) 2x8's (TYP OF 2)
- PLACE HEADER STUDS FOR EXHAUST FAN AS CLOSE AS POSSIBLE TO THE WALL STUD THAT IS LOCATED UNDER THE TRUSS (TYP)
- SEE SHEET NOTE 4
- 2x8 FRAMED EXTERIOR WALL BELOW SET BACK FROM OUTSIDE FACE OF FOUNDATION WALL PER STRUCTURAL SECTIONS. SEE SHEET NOTE 1 (TYP)
- 2x6 FRAMED INTERIOR WALL BELOW (TYP)
- OUTSIDE FACE OF FOUNDATION WALL
- OUTSIDE FACE OF WALL STUDS (TYP)
- NAIL TOP PLATE OF FRAMED WALL TO BOTTOM CHORD OF TRUSSES PER IBC (TYP)
- 500lbs. POINT LOAD FROM PIPE SUPPORT (TYP)
- PIPE SUPPORT MEMBER TO SPAN MINIMUM OF 3 TRUSSES PER DETAIL
- SUPPLY LOUVER HEADER (4) 2x8's ABOVE TOP LOUVER AND (4) 2x6's ABOVE BOTTOM LOUVER
- DOOR D-BB4 HEADER (4) 2x6's
- DOOR D-BB2 HEADER (4) 2x12's
- DOOR D-BB3 HEADER
- DOOR D-BB1 HEADER (4) 2x10's
- BLOWER BUILDING
- HIP TRUSS
- HIP LINE
- SLOPE 3:12
- RIDGE LINE
- 3 PLY GIRDER TRUSS, SEE SHEET NOTE 4
- SEE SHEET NOTE 4
- ADDITIONAL BLOCKING FOR METAL CEILING PANEL ATTACHMENT IN BLOWER ROOM ONLY. SEE SHEET NOTE 9 (TYP)
- PRE-ENGINEERED WOOD TRUSSES (TYP)
- FRAME ATTIC ACCESS w/ STANDARD DIMENSIONAL LUMBER MATCHING BOTTOM TRUSS CHORD. TRIM OPENING w/ FLASHING AND SEALANT AS RECOMMENDED BY CEILING PANEL MANUFACTURER.
- FOUNDATION O.D. 90'-0"
- Dimensions: 7'-11", 9'-0", 9'-0", 6'-11", 9'-0", 9'-0", 11'-11", 14'-1 1/2", 2'-6"
- PRE-ENGINEERED WOOD MONO TRUSSES @ 2'-0" O.C. (TYP EACH END)
- HIP JACK TRUSSES @ 2'-0" O.C. (TYP EACH CORNER)

A BLOWER BUILDING WALL SECTION

Ⓐ BB-5 SCALE: 3/4" = 1'-0"

- ROOF PITCH 3:12
- SECURE EACH TRUSS TO TOP PLATE w/ SIMPSON H10 TIE (OR EQUIVALENT) w/G185 GALV. FINISH (TYP EACH TRUSS)
- PRE-ENGINEERED WOOD MONO TRUSS @ 24" O.C. SEE ROOF FRAMING PLAN. TRUSS MANUFACTURER SHALL SUPPLY ALL TRUSS TO TRUSS CONNECTIONS.
- SEE SHEET NOTES FOR CEILING FINISH DETAILS (TYP)
- TRUSS BEARING EL. = 5423.17 (TYP)
- BLOCKING BETWEEN EACH TRUSS. MAINTAIN MIN. 2" CLEAR TO SHEATHING FOR VENTILATION.
- DOUBLE 2x8 WOOD TOP PLATE
- 2x8 WOOD STUD FRAMING. SEE FOUNDATION PLAN AND STRUCTURAL SECTIONS FOR SPACING. SEE FOUNDATION PLAN AND STRUCTURAL SECTIONS FOR DETAILED REQUIREMENTS AT SIM.
- SEE ROOF FRAMING PLAN FOR HEADER AND JAMB FRAMING REQUIREMENTS AT WALL OPENINGS
- 1/2" GYPBOARD SHEATHING
- AT SIM PROVIDE 1/2" STRUCTURAL 1 PLYWOOD ON FACE OF STUDS w/ 10d COMMON NAILS @ 4" O.C. AT ALL PANEL EDGES WITH BLOCKING AT ALL PANEL EDGES
- SEE SHEET NOTE 1
- FOUNDATION O.D. SEE SHEET NOTE 1.
- 2'-0"
- ROOF PANELS w/FLASHING AND CLOSURES PER PANEL MANUFACTURER. SEE ARCHITECTURAL DRAWINGS (TYP)
- 5/8" EXPOSURE 1 STRUCTURAL 1 PLYWOOD SHEATHING w/ 10d COMMON NAILS @ 4" O.C. AT ALL PANEL EDGES WITH BLOCKING AT ALL PANEL EDGES
- FASCIA TRIM, 2" DIMENSIONAL LUMBER SIZED TO MATCH TRUSS MEMBER SIZE
- SEE DETAIL FOR GUTTERS AND DOWNSPOUTS (BB-2)
- 2x4 SOFFIT FRAMING PER PANEL MANUFACTURER
- METAL SIDING
- 2x4 WOOD GIRTS @ 18" O.C. FOR SIDING ATTACHMENT UNLESS OTHERWISE RECOMMENDED BY SIDING MANUFACTURER (TYP)

B BLOWER BUILDING WALL SECTION

Ⓑ BB-5 SCALE: 3/4" = 1'-0"

- ROOF PANELS w/FLASHING AND CLOSURES PER PANEL MANUFACTURER. SEE ARCHITECTURAL DRAWINGS (TYP)
- ROOF PITCH 3:12
- PRE-ENGINEERED WOOD MONO TRUSS @ 24" O.C. SEE ROOF FRAMING PLAN. TRUSS MANUFACTURER SHALL SUPPLY ALL TRUSS TO TRUSS CONNECTIONS.
- 5/8" EXPOSURE 1 STRUCTURAL 1 PLYWOOD SHEATHING w/ 10d COMMON NAILS @ 4" O.C. AT ALL PANEL EDGES WITH BLOCKING AT ALL PANEL EDGES
- SECURE EACH TRUSS TO TOP PLATE w/ SIMPSON H10 TIE (OR EQUIVALENT) w/G185 GALV. FINISH (TYP EACH TRUSS)
- SEE SHEET NOTES FOR CEILING FINISH DETAILS (TYP)
- TRUSS BEARING EL. = 5423.17 (TYP)
- DOUBLE 2x8 WOOD TOP PLATE
- 2x8 WOOD STUD FRAMING. SEE FOUNDATION PLAN AND STRUCTURAL SECTIONS FOR SPACING.
- 1/2" GYPBOARD SHEATHING
- FOUNDATION O.D. SEE SHEET NOTE 1.
- 2x4 WOOD GIRTS @ 18" O.C. FOR SIDING ATTACHMENT UNLESS OTHERWISE RECOMMENDED BY SIDING MANUFACTURER (TYP)
- 2x4 TRUSS BLOCKING @ 18" O.C. @ EACH GIRT
- METAL SIDING PER ARCHITECTURAL DRAWINGS (TYP)

DETAIL

② BB-5 SCALE: NONE

- ROOF SHEATHING PER STRUCTURAL DRAWINGS
- PRE-ENGINEERED TRUSSES @ 2'-0" O.C.
- PROVIDE VERTICAL WEB ADJACENT TO 4x4 (TYP OF MIN. 3 TRUSSES)
- SIMPSON A35 CLIP (TYP)
- 4"x4"
- 500#
- HANGER ROD FOR PIPE SUPPORT

NOTES:

1. WALL FRAMING IS SET BACK FROM EDGE OF FOUNDATION SO 2x4 GIRTS CAN BE SET WITH THEIR NAILING FACE FLUSH WITH THE OUTSIDE FACE OF FOUNDATION. THE DISTANCE FROM FACE OF STUD TO FOUNDATION O.D. IS INCREASED FOR THE WEST WALL DUE TO ADDITIONAL PLYWOOD SHEATHING REQUIRED ON THE OUTSIDE FACE OF STUDS. SEE ROOF FRAMING PLAN FOR OUTSIDE DIMENSIONS OF FOUNDATION. SEE STRUCTURAL SECTIONS ON SHEET BB-4 FOR DISTANCE REQUIREMENTS.

2. HEADERS ARE (4) 2x6's UNLESS NOTED OTHERWISE.

3. HEADERS SHALL BEAR ON (1) 2x8 TRIMMER STUD w/ (2) 2x8 FULL HEIGHT STUDS EACH END UNLESS NOTED IN DETAILS.

4. PROVIDE (1) TSP CLIP EACH SIDE OF EACH PLY OF GIRDER TRUSS.

5. ROOF TRUSS DESIGN LOADS:
   DEAD LOAD 15 P.S.F.
   SNOW LOAD 30 P.S.F.
   WIND LOAD 100 M.P.H. EXPOSURE C

6. TRUSS MANUFACTURER SHALL DESIGN AND SPECIFY ALL TRUSS-TO-TRUSS CONNECTIONS. SEE SHEET NOTE 10 FOR ADDITIONAL REQUIREMENTS.

7. THE PRE-ENGINEERED TRUSS SUPPLIER SHALL PROVIDE A COMPLETE SUBMITTAL PACKAGE FOR ALL COMPONENTS OF THE WOOD TRUSSES, INCLUDING STRUCTURAL DESIGN CALCULATIONS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, COMPLETE FABRICATION DETAILS, MATERIALS LISTS, LAYOUT DRAWINGS, DETAILED INSTALLATION DRAWINGS AND APPLICABLE MATERIAL AND COATING SPECIFICATIONS. ALL COMPONENTS SHALL BE DESIGNED, FABRICATED AND INSTALLED TO THE REGULATIONS AND REQUIREMENTS OF THE PIKES PEAK REGIONAL BUILDING DEPARTMENT AND THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE.

8. TRUSSES PENDING –
   TRUSS ENGINEERING MUST BE SUBMITTED TO PPRBD A MINIMUM 1 WEEK PRIOR TO FRAME INSPECTION. PPRBD STAMPED COPY OF STRUCTURAL PLANS MUST ACCOMPANY ENGINEERING. SUBMITTAL MUST INCLUDE A TRUSS LAYOUT STAMPED BY A DESIGN PROFESSIONAL WITH ALL NECESSARY HARDWARE TO RESIST UPLIFT. ALL GIRDER TRUSSES MUST BE LABELED ACCORDING TO NUMBER OF PLYS AND BOTTOM CHORD CONSTRUCTION. TRUSSES PENDING CANNOT BE WALKED THROUGH.

9. PROVIDE ADDITIONAL STUD BLOCKING BETWEEN TRUSS BOTTOM CHORDS THAT RUN IN THE EAST/WEST DIRECTION TO ACCOMMODATE THE FASTENER SPACING REQUIREMENTS OF THE RIBBED METAL CEILING PANELS. RIBBED METAL CEILING PANELS TO BE INSTALLED IN BLOWER ROOM ONLY PER ARCHITECTURAL DRAWINGS.

10. TRUSS SUPPLIER SHALL DESIGN THE TRUSSES AND REQUIRED BLOCKING OVER THE BLOWER ROOM AS IF THERE IS NO CEILING FINISH MATERIAL SINCE THE RIBBED METAL CEILING PANELS CAN NOT SERVE ANY STRUCTURAL PURPOSE.

ROOF FRAMING PLAN AND STRUCTURAL SECTIONS
HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN	MAM
DESIGNED	MAM
CHECKED	XXX
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SHEET **BB-5** OF —