



# GARAGE: CONSTRUCTION MATERIALS

## BEFORE YOU DIG: CALL THE PA "ONE CALL SYSTEM"

1. BEFORE YOU DIG AT THE SITE IT IS MANDATORY TO CALL THE PENNSYLVANIA "ONE CALL SYSTEM." 1-800-242-1776. ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, SHOULD MAKE THEIR OWN NOTIFICATION. ONLY THE "CALLER" IS PROTECTED BY THE SYSTEM.

#### DIMENSIONS: DO NOT SCALE DRAWINGS:

 ALL DIMENSIONS ARE GIVEN TO "FACE OF MASONRY" OR "FACE OF STUD". CHECK ALL DIMENSIONS BEFORE PROCEEDING. FOR "CLEAR" OPENINGS BETWEEN FINISHES, SUBTRACT FINISH THICKNESS FROM DIMENSIONS GIVEN. LOOK FOR THE CORRECT DIMENSIONAL INFORMATION, OR SEEK CLARIFICATION FROM THE ARCHITECT.

#### STEEL COLUMNS

- 2. ALL STEEL COLUMNS SHOWN SHALL BE 4" DIA., 10.79 POUNDS PER FOOT. ORDER STEEL COLUMNS WITH TOP PLATE 4" X 4" X 1/4" THICK, SHOP WELDED. BOTTOM PLATES SHALL BE 8" X 8" X 3/4" THICK, SHOP WELDED, WITH 2 3/4" ANCHOR BOLT HOLES. FIELD MEASURE FOR LENGTH AFTER FOOTINGS ARE ESTABLISHED.
- 3. FIELD WELD TOP PLATES TO BEAMS. PLUMB COLUMNS, THEN DRILL FOOTINGS AND USE SIMPSON TITEN HD MASONRY SCREWS TO LOCATE AND ANCHOR BOTTOM PLATES, DO NOT OVER TIGHTEN. FILL (PACK) SPACE (SHOULD BE BETWEEN 3/4 AND 1") BETWEEN BOTTOM PLATES AND FOOTINGS WITH HIGH STRENGTH NON-SHRINK GROUT.

## STEEL BEAMS

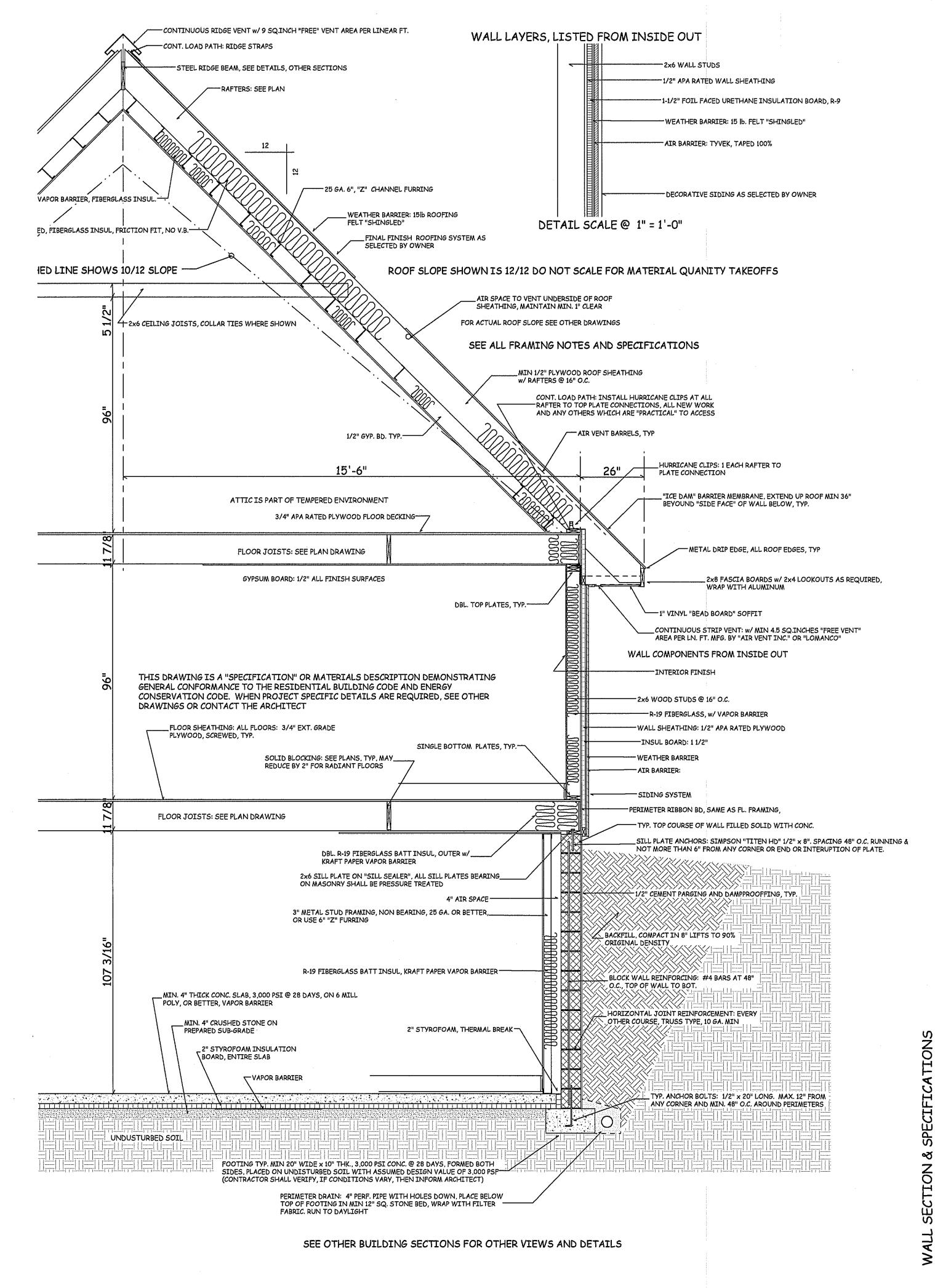
- 1. ORDER STEEL BEAMS PRE-PUNCHED WITH 1/2" DIA. HOLES, WEB AND BOTH FLANGES, 8" O.C. STAGGERED.
- 2. USE 5/16" HEX HEAD BOLTS W/ 1" WASHERS TO ATTACH TOP & BOTTOM PLATES, OR WEB FILLERS AS REQUIRED.

#### WOOD FRAMING "BASIC"

- 1. STANDARDS: ALL ROUGH CARPENTRY TO COMPLY WITH "MANUAL OF HOUSE FRAMING" BY NATIONAL FOREST PRODUCTS ASSOC., THE 2006 ICC RESIDENTIAL CODE, AND WITH RECOMMENDATIONS OF AMERICAN PLYWOOD ASSOC.
- 2. STRUCTURAL LUMBER (WALL STUDS, FLOOR CEILING JOISTS) OF NOMINAL 2" THICKNESS SHALL BE KILN DRIED (MAX. 19% MOISTURE CONTENT) #2 HEM-FIR WITH MIN. FB 1,200.
- 3. ALL WOOD IN CONTACT WITH MASONRY SHALL BE PRESSURE TREATED, WITHOUT CHROMATED COPPER ARSENATE. ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD TO BE STAINLESS STEEL OR HEAVY HOT DIPPED GALVANIZED.
- 4. THE JOINT BETWEEN MASONRY FOUNDATION WALL AND WALL SILL PLATES SHALL RECEIVE POLYPROPYLENE FOAM SILL PLATE INSULATION.
- 5. PROVIDE TWO (2) FLOOR JOISTS DIRECTLY BELOW PARALLEL WALLS AND PARTITIONS ABOVE. IF WALLS ABOVE ARE CHASES FOR PIPES OR DUCTS, PUT JOISTS EITHER SIDE AND INSTALL SOLID BLOCKING AT 16" O.C. MIN.
- AND INSTALL SOLID BLOCKING AT 16" O.C. MIN.

  6. ALL FLOORS SHALL BE "BRIDGED" WITH SOLID BLOCKING, STAGGERED.
- 7. ALL RAFTERS TO BE SOLIDLY BLOCKED ALONG THE TOP PLATE OF EXTERIOR WALLS.
- 8. WIND BRACING HORIZONTAL: ALL WALLS SHALL BE COMPLETELY SHEATHED WITH APA RATED, 4-PLY, 1/2 INCH THICK PLYWOOD. VERTICAL JOINTS SHALL BE FULLY SUPPORTED ON STUDS. NAILING, USING 8D COMMON NAILS, ALL AROUND SHEET PERIMETERS SHALL BE 4" O.C., INTERIOR FIELD NAILING SHALL BE 6" O.C. NOTE: NAILS IN THE PRESSURE
- TREATED SILL PLATE MUST BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

  9. SUB-FLOOR DECKS: SHALL BE 3/4", APA RATED DECKING. SCREW @ 6" O.C. ALONG ALL SHEET PERIMETERS AND 16" O.C. AT INTERIOR FIELD. ALL JOINTS SHALL BE FULLY
- 10. ROOF SHEATHING: SHALL BE EXTERIOR GRADE PLYWOOD, 1/2" THICK. NAIL SAME AS WALL SHEATHING. PROVIDE TWO (2) SIMPSON STRONG-TIE "PSCL" SHEATHING CONTINUITY CLIPS IN EACH RAFTER BAY AT JOINTS BETWEEN SHEATHING PANELS.



HOUSE: CONSTRUCTION MATERIALS THERMAL ENVELOPE

SCALE: 1/2" = 1'-0"

 START UP
 FEB. 05, 2011

 FEB. 05, 2011
 NOV. 16, 2011

 FEB. 05, 2011
 NOV. 16, 2011

 FEB. 05, 2011
 DEC. 16, 2011

 FEB. 05, 2012
 FEB. 05, 2012

 FEB. 05, 2012
 FEB. 05, 2012

 FEB. 05, 2012
 FEB. 20, 2012

 FEB. 20, 2012
 FEB. 20, 2012

 FEB. 20, 2012
 FEB. 20, 2012

 FEB. 20, 2012
 FEB. 20, 2012

ONLY VALID FOR PERMITS W/ EMBOSSED SEAL & ORIGINAL "RED" SIGNATURE

HOUSE & GARAGE ARE BOTH PRESENTED IN THIS SET OF DRAWINGS, HOWEVER WILL BE

A S S O C i a t e S, I n c.

A S A C i a t e S, I n c.

E & SPACE PLANNING

Voice: 215-672-1155

Creative Design Associa

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