

NOTES:

1. STANDING SEAM METAL ROOFS TO HAVE A 3:12 PITCH, CONTACT MANUFACTURER TO CONFIRM PITCH REQUIREMENTS
2. EPDM, PVC, OR TPO FOR FLAT ROOF
3. SHINGLE ROOFS TO HAVE A 8:12 PITCH, CONTACT MANUFACTURER TO CONFIRM PITCH REQUIREMENTS
4. USE MANUFACTURERS RECOMMENDED DETAILS, CONFER W/ ARCHITECT IF VARIES FROM THESE DRAWINGS

CODE REQUIREMENTS FOR INSULATION

R VALUE ROOF REQUIREMENT ZONE 6: R-49

TYPICAL INSULATION ROOF	R-VALUE/INCH	THICKNESS	TOTAL
DENSE PACK CELLULOSE	3.6-3.8/INCH	13"	R-49.4
TOTAL			R-49.4
DENSE PACK CELLULOSE	3.6-3.8/INCH	9.25"	R-35.2
TAPERED INSULATION	6/INCH	2.3" +/-	R-13.8 +/-
TOTAL			R-49 +/-

CODE REQUIREMENTS FOR INSULATION

R VALUE WALL REQUIREMENT ZONE 6: R-20 (OR R-13 + R-5 CONT) WALLS

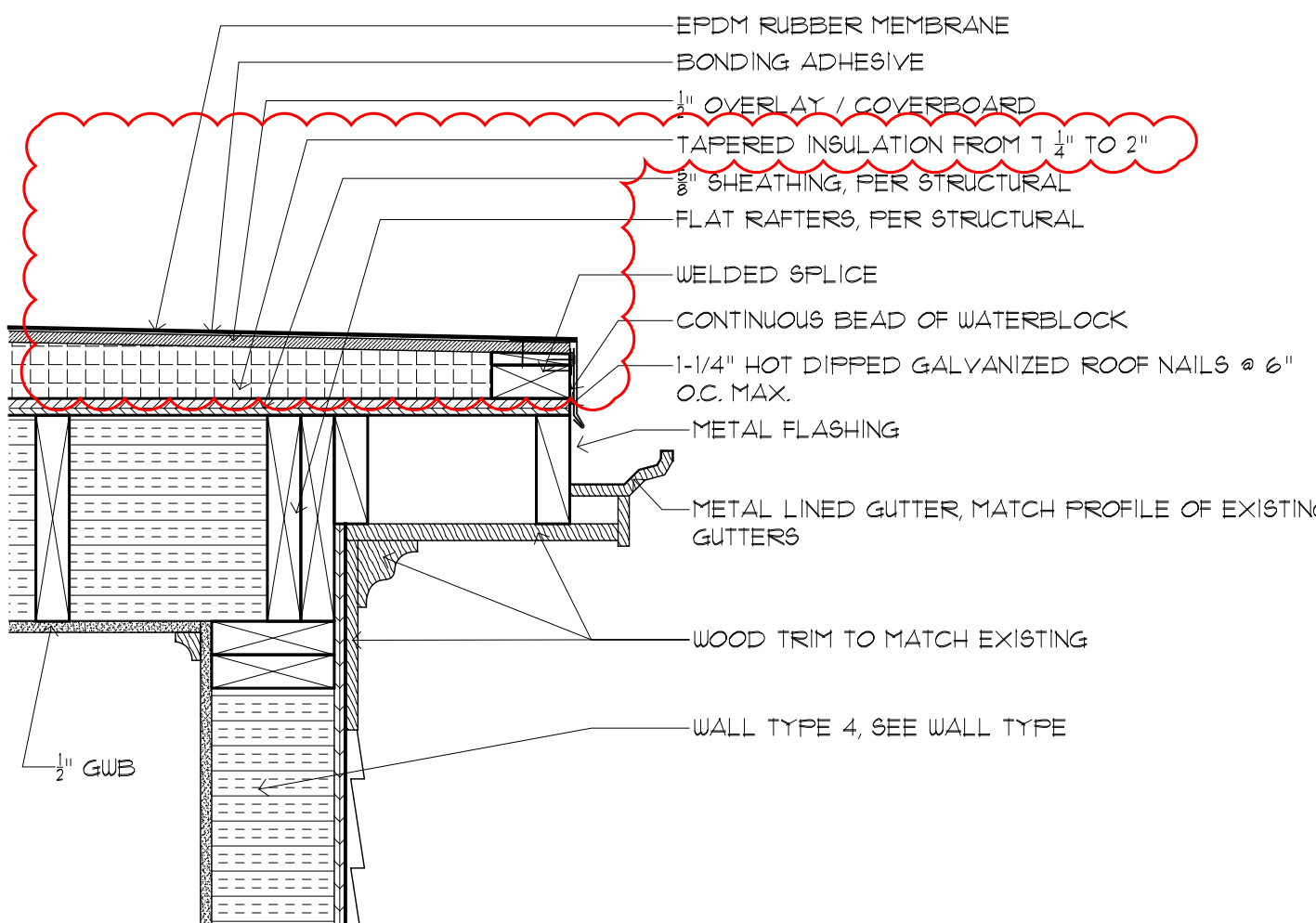
TYPICAL INSULATION WALL	R-VALUE/INCH	THICKNESS	TOTAL
DENSE PACK CELLULOSE	3.6-3.8/INCH	5.5"	R-20.9
1" ZIP SYSTEM R SHEATHING	3.6" CONT		R-3.6
TOTAL			R-24.5

CODE REQUIREMENTS FOR INSULATION, ZONE 6 PER ASHRAE STANDARD 90.1-2001 TABLE 5.5-6

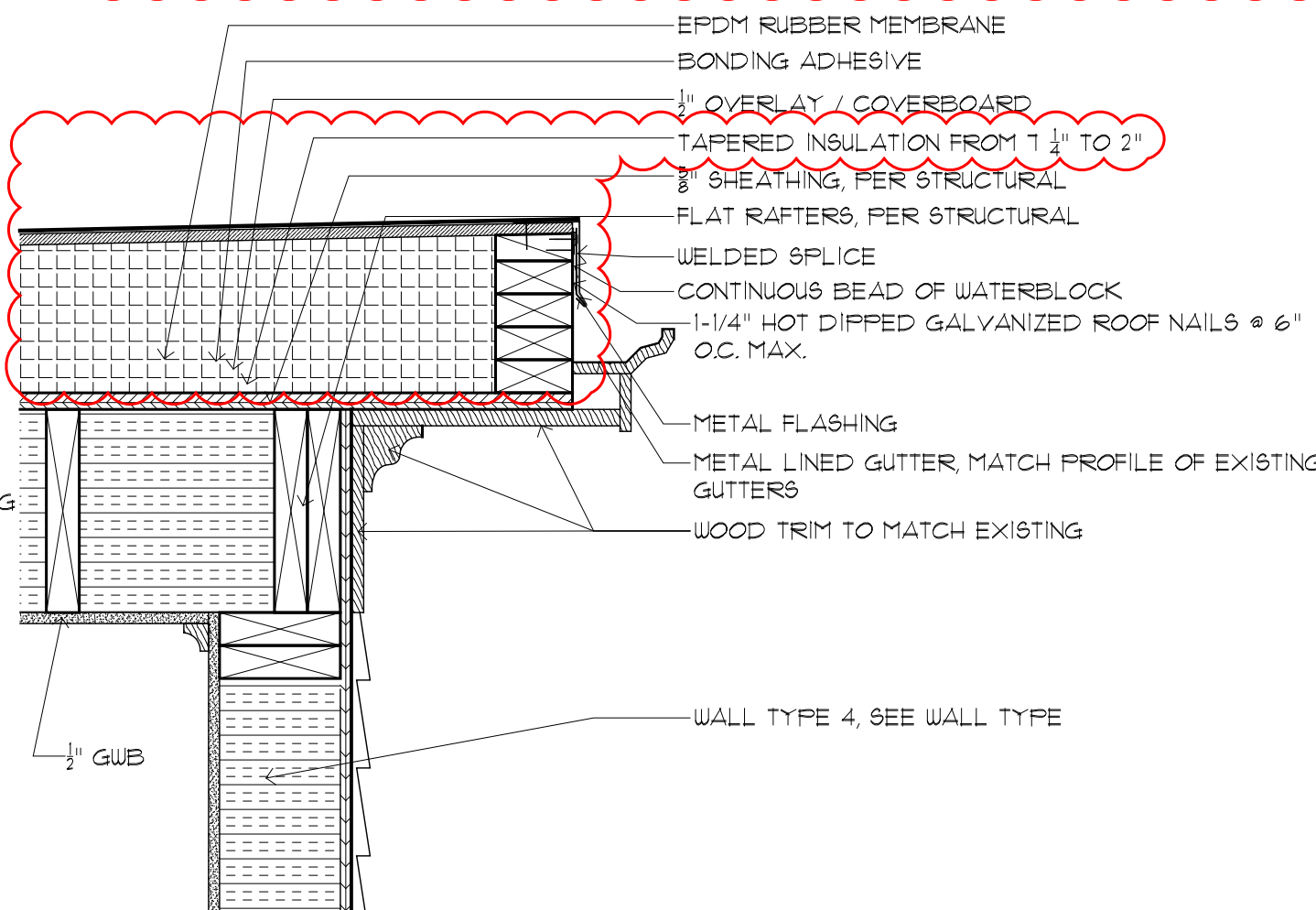
R VALUE FLOOR REQUIREMENT:	R-30 FLOOR
R VALUE SLAB UNHEATED REQUIREMENT:	R-10 FLOOR FOR 4'-0"
R VALUE SLAB HEATED REQUIREMENT:	R-15 FLOOR FOR 4'-0"
R VALUE CRAWL SPACE REQUIREMENT:	R-10 CONT OR R-13 FRAMING CAVITY
R VALUE BASEMENT WALLS REQUIREMENT:	R-15 CONT OR R-13 FRAMING CAVITY

GENERAL RULE OF THUMB FOR INSULATION VALUES:

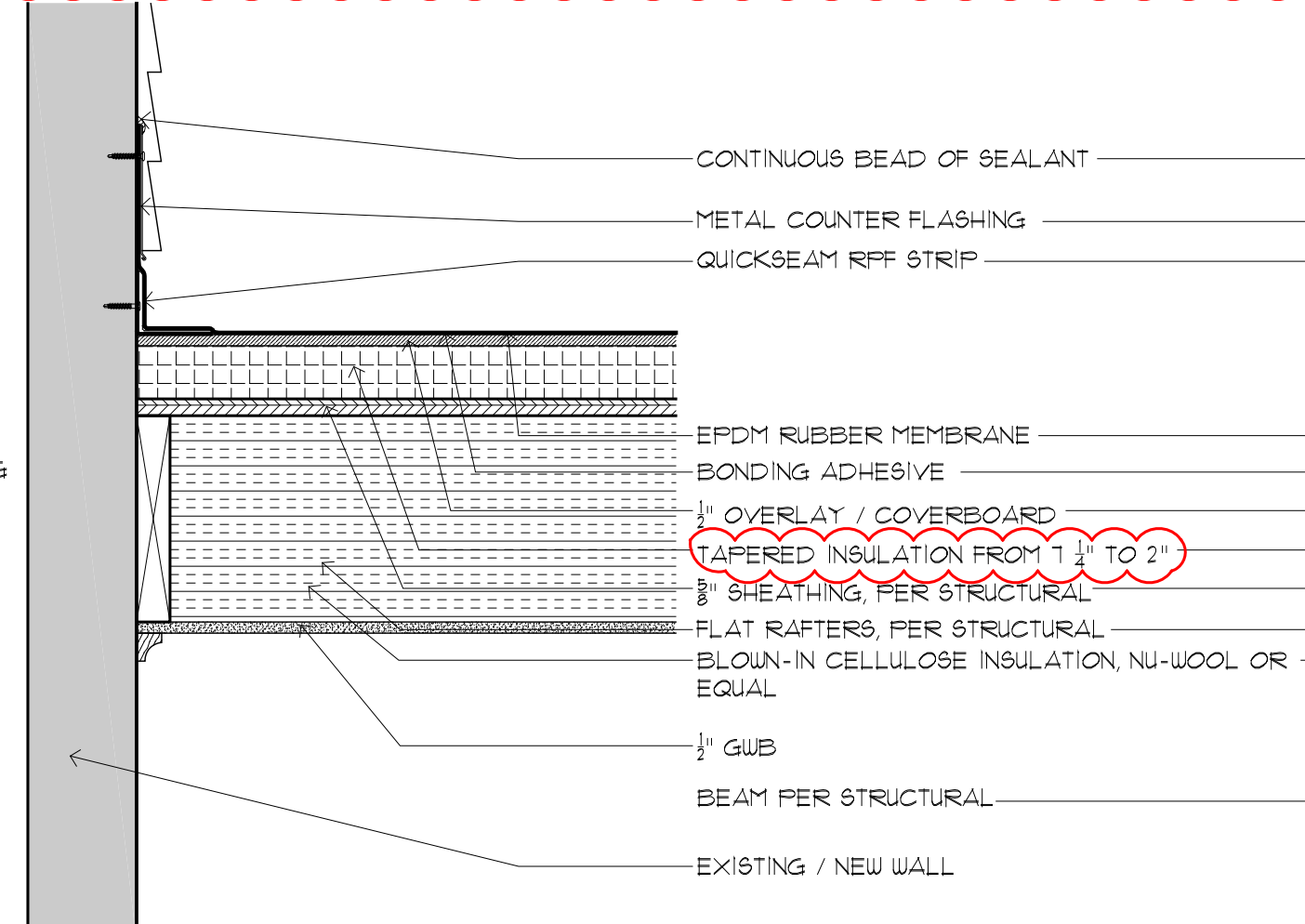
R-VALUE/INCH	INSULATION TYPE
5/INCH	RIGID INSULATION
6.5/INCH	CLOSED CELL INSULATION
3.6/INCH	OPEN CELL INSULATION
3.6-3.8/INCH	DENSE PACK CELLULOSE
3.2/INCH	FIBERGLASS (BATT)
2.2/INCH	FIBERGLASS (BLOWN)



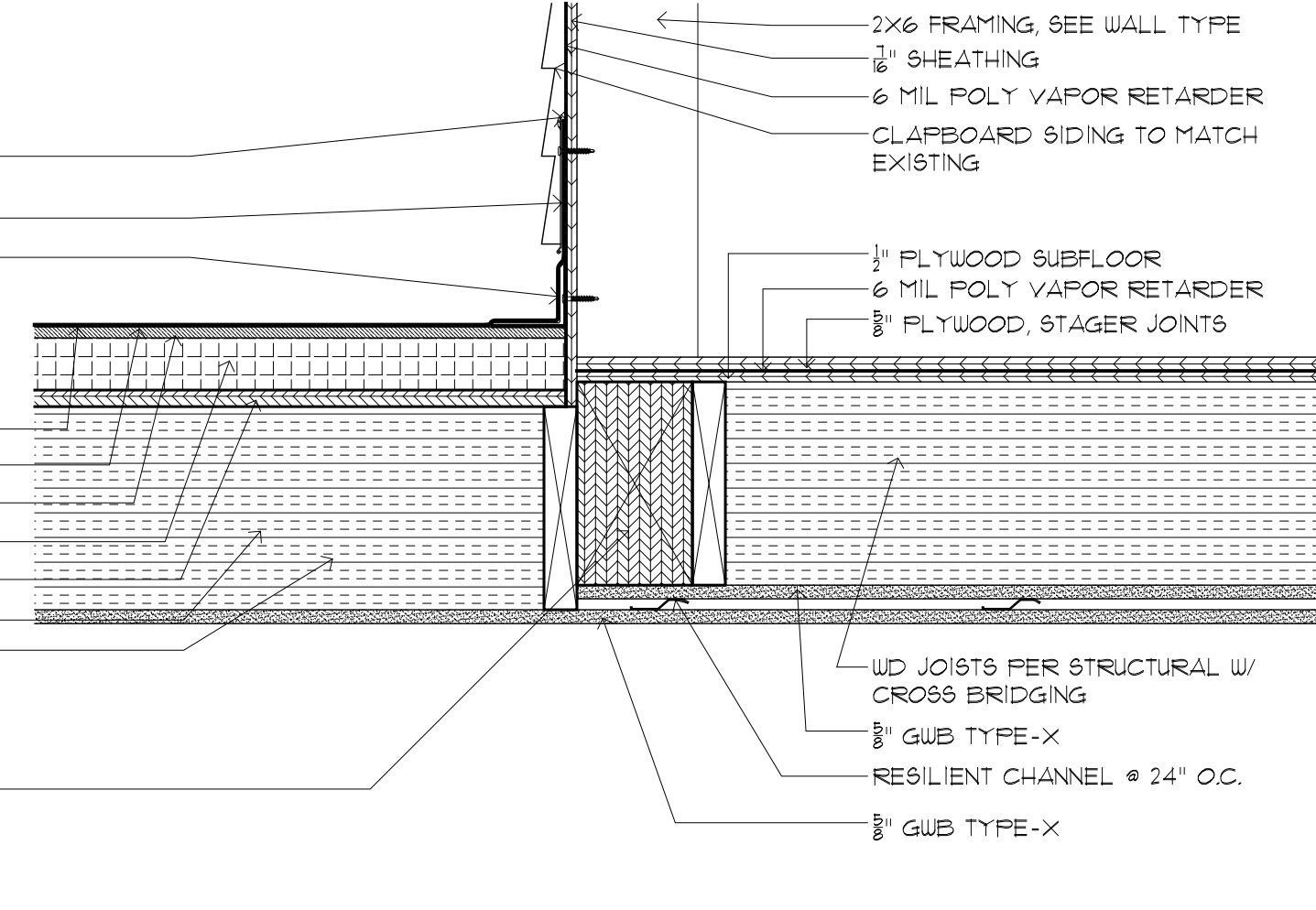
1 ROOF DETAIL @ EAVE, FLAT  
A420 SCALE: 1 1/2"=1'-0"



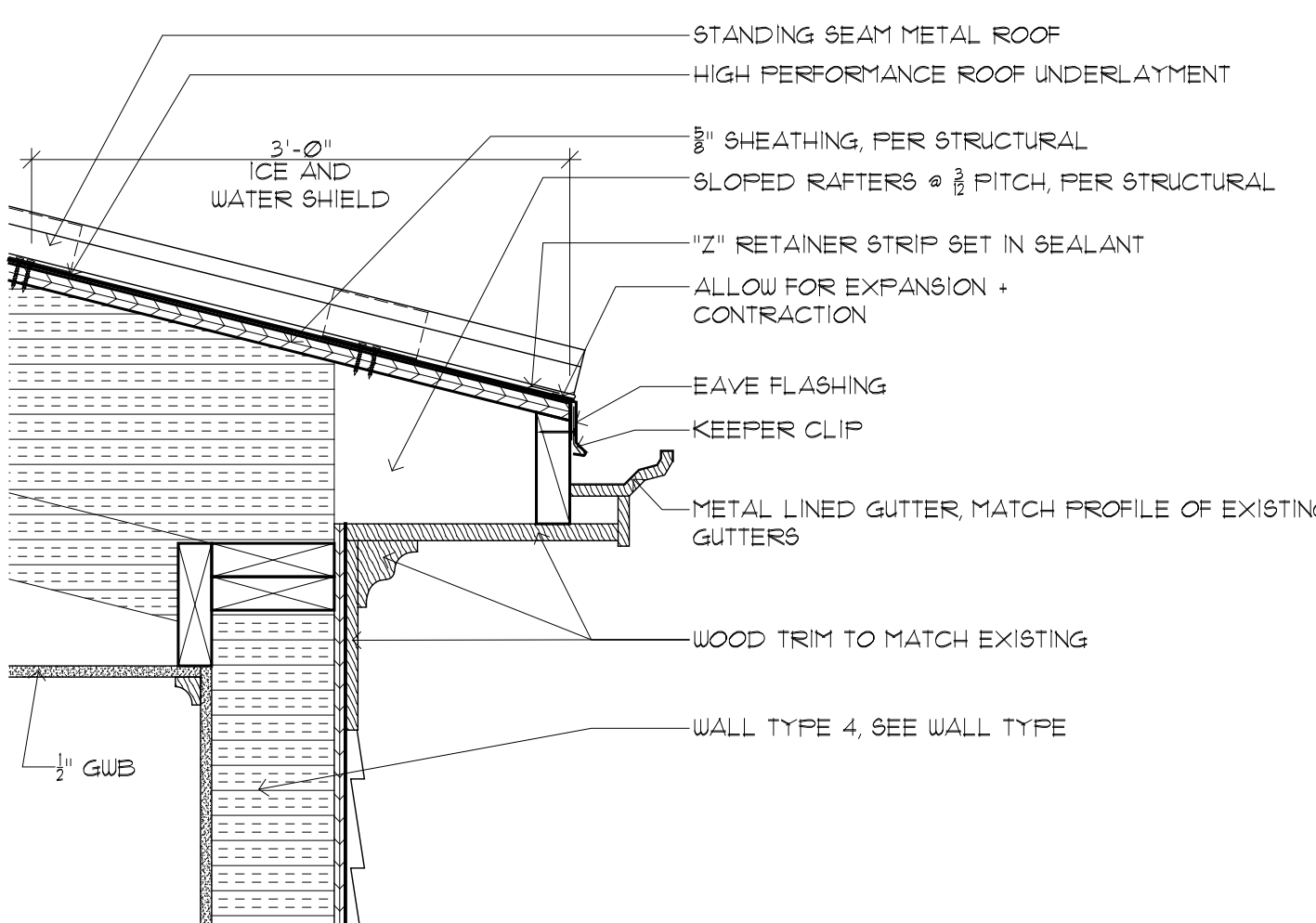
2 ROOF DETAIL @ EAVE, FLAT  
A420 SCALE: 1 1/2"=1'-0"



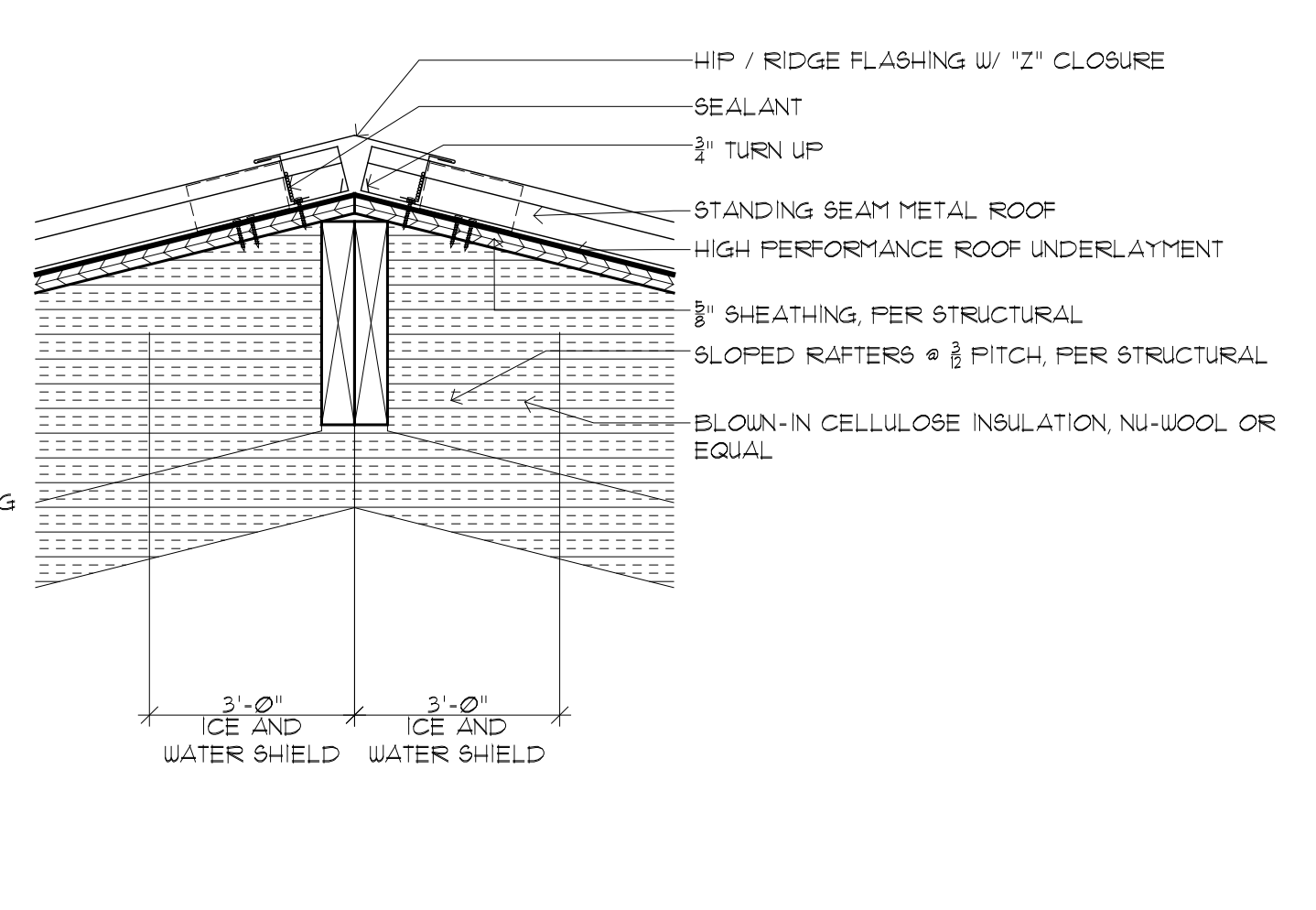
3 ROOF DETAIL @ WALL, FLAT  
A420 SCALE: 1 1/2"=1'-0"



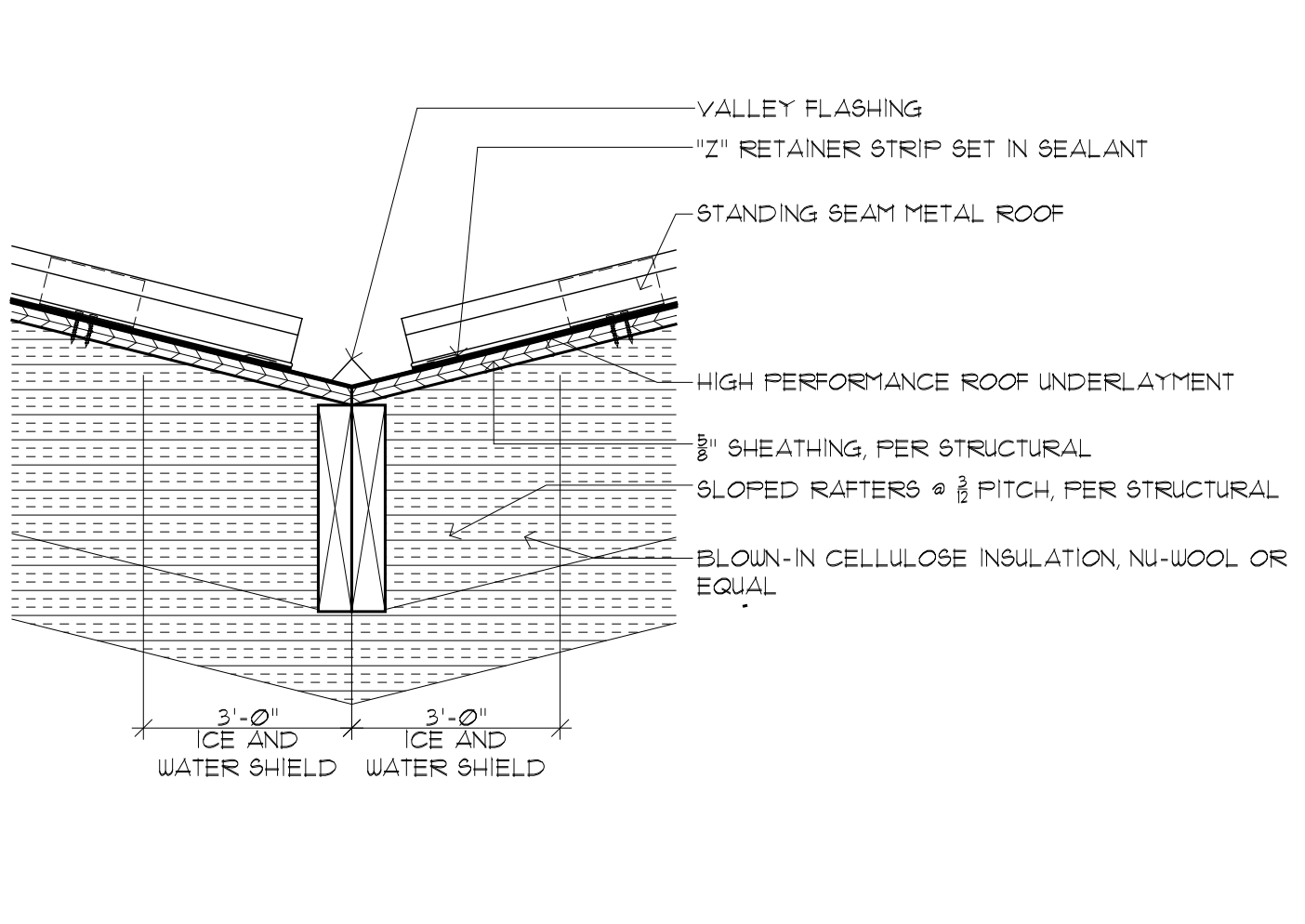
4 ROOF DETAIL @ GARAGE WALL, FLAT TO LOFT  
A420 SCALE: 1 1/2"=1'-0"



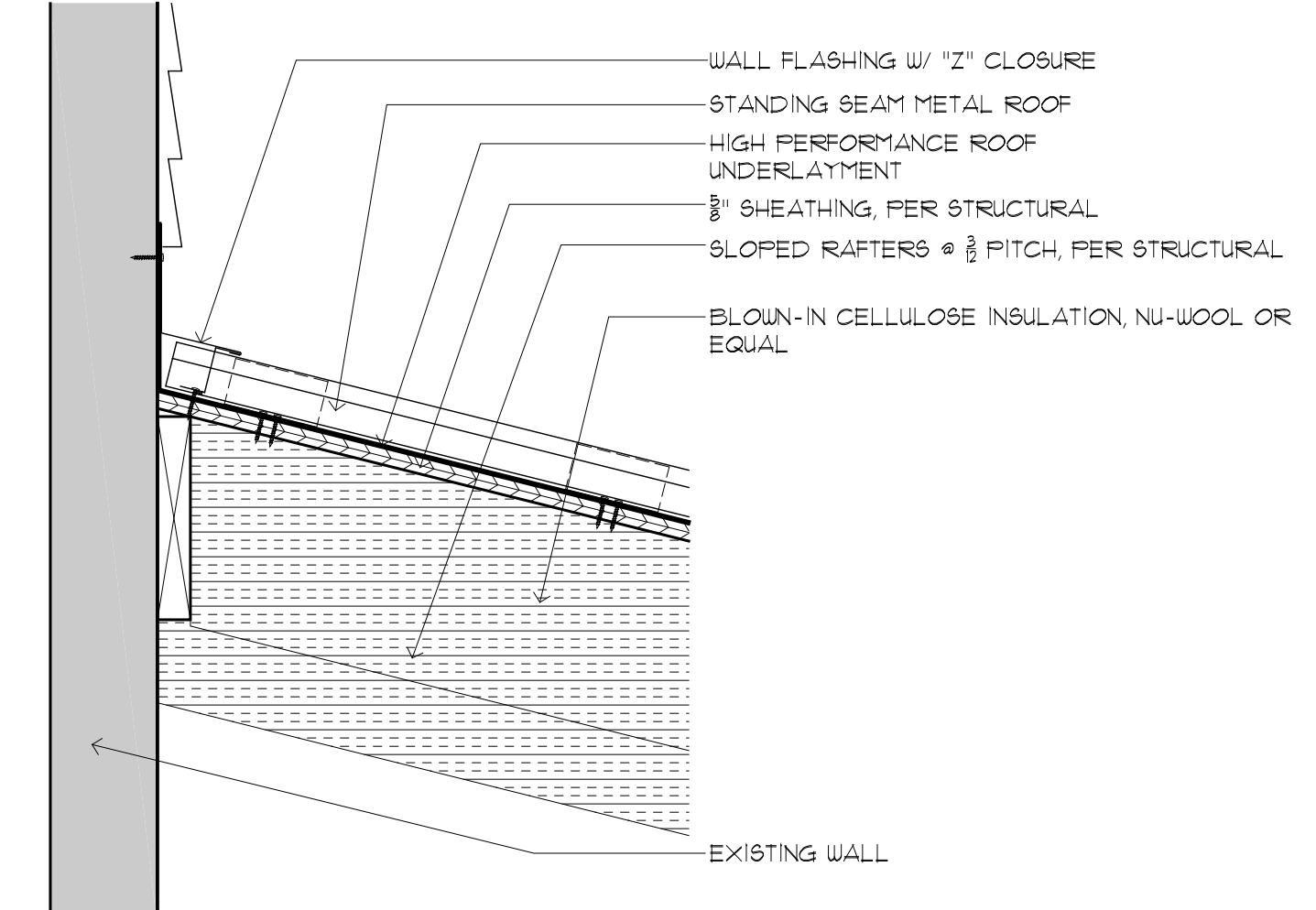
5 ROOF DETAIL @ EAVE, METAL  
A420 SCALE: 1 1/2"=1'-0"



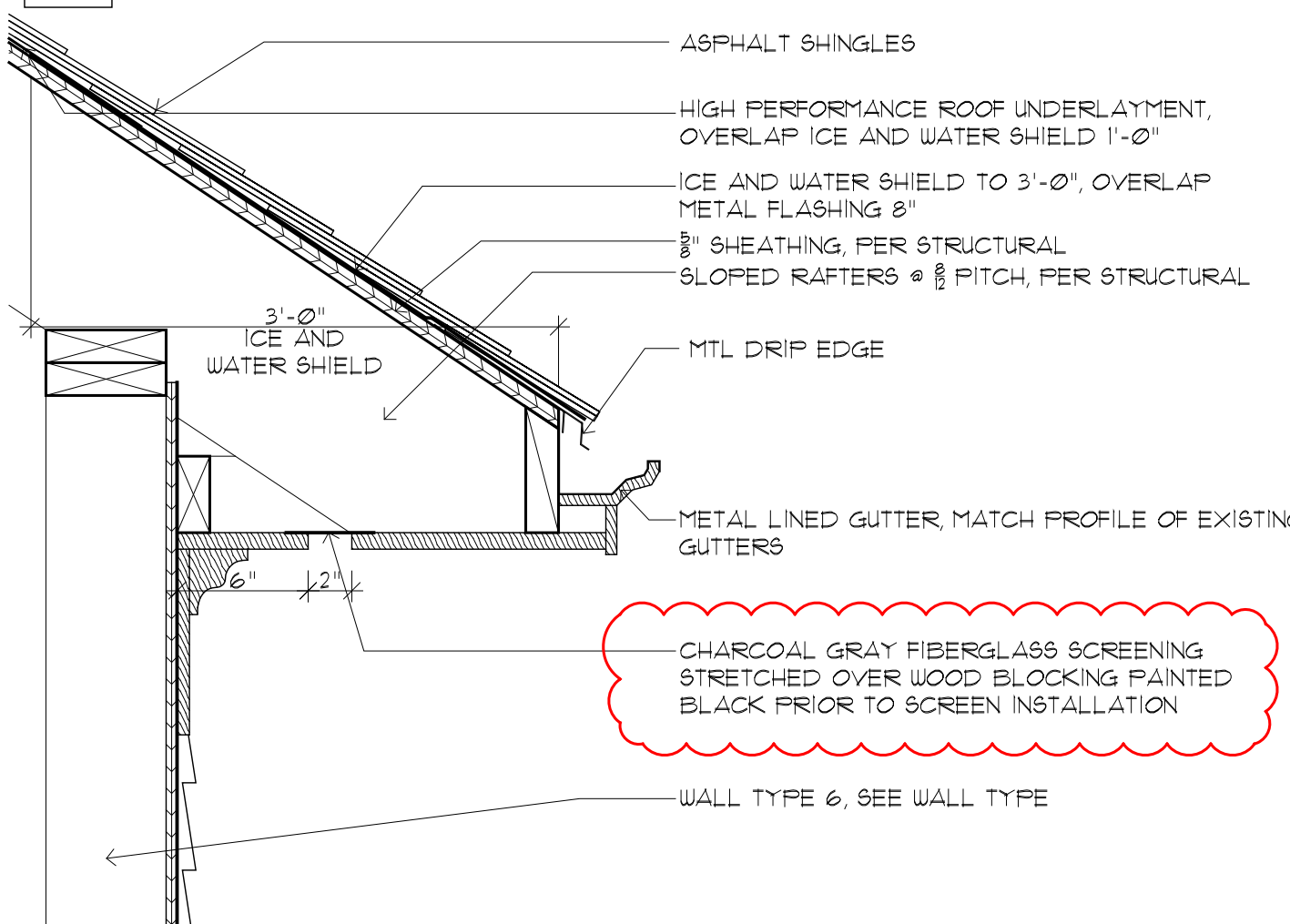
6 ROOF DETAIL @ HIP / RIDGE, METAL  
A420 SCALE: 1 1/2"=1'-0"



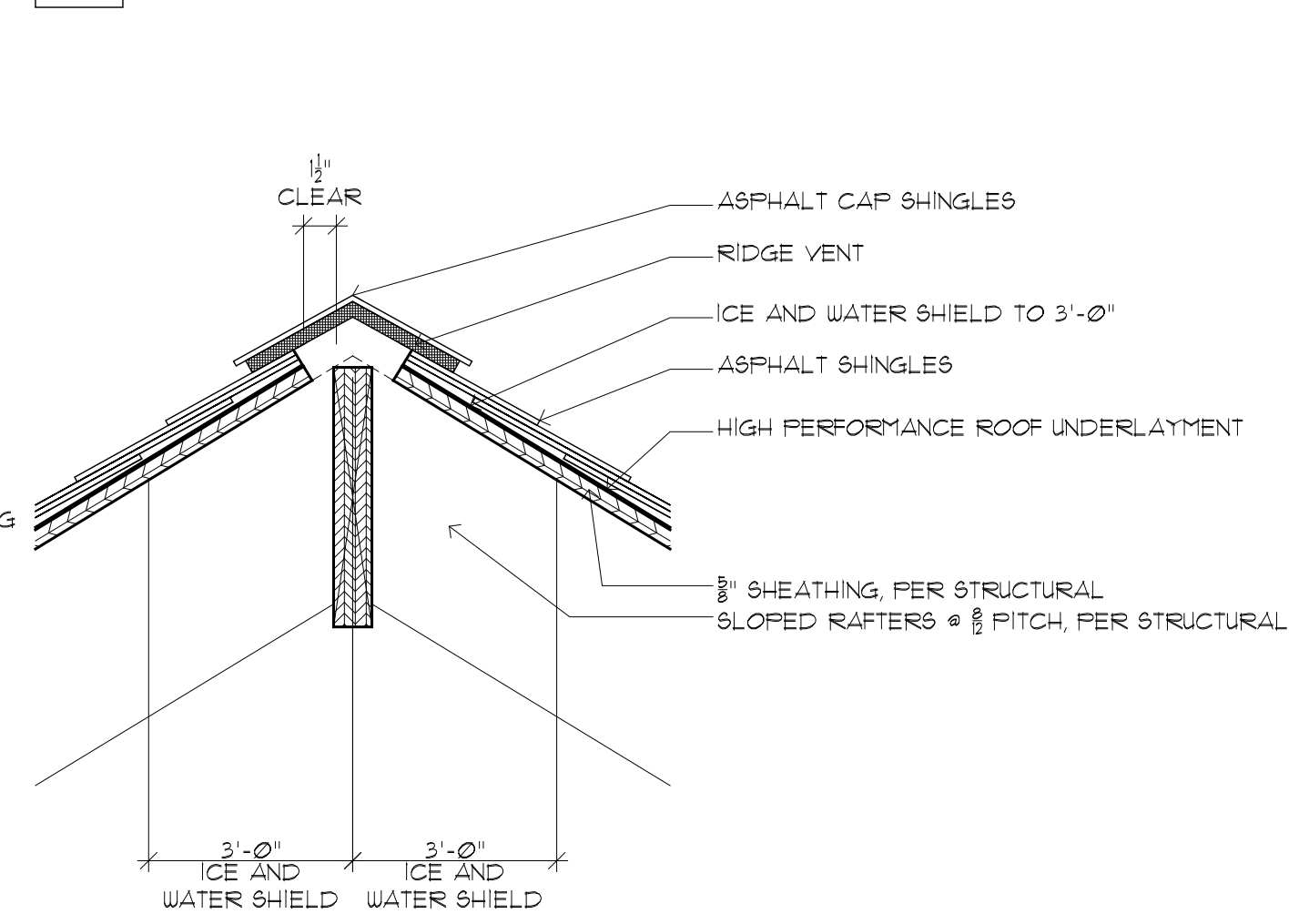
7 ROOF DETAIL @ VALLEY, METAL  
A420 SCALE: 1 1/2"=1'-0"



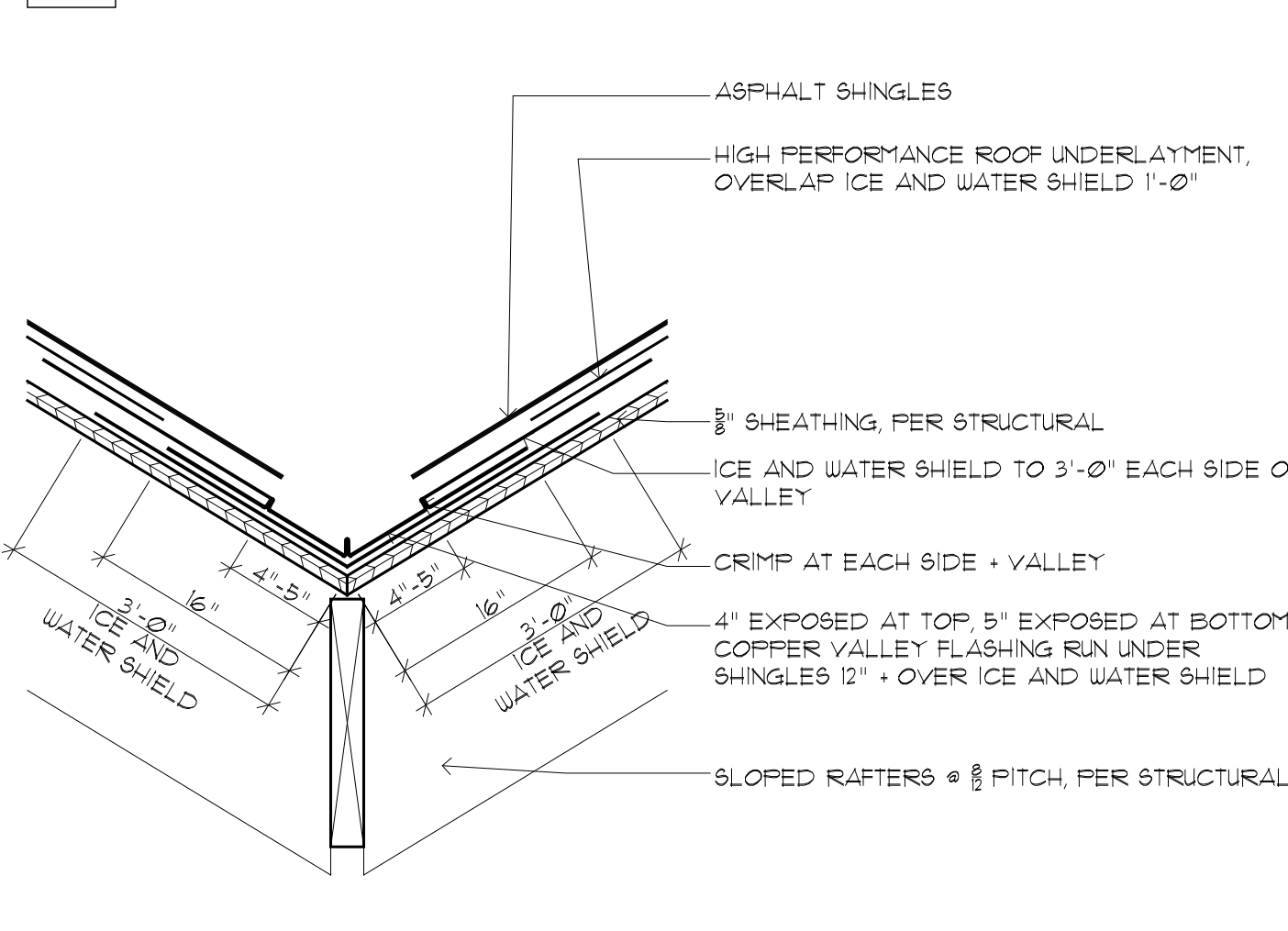
8 ROOF DETAIL @ WALL, METAL  
A420 SCALE: 1 1/2"=1'-0"



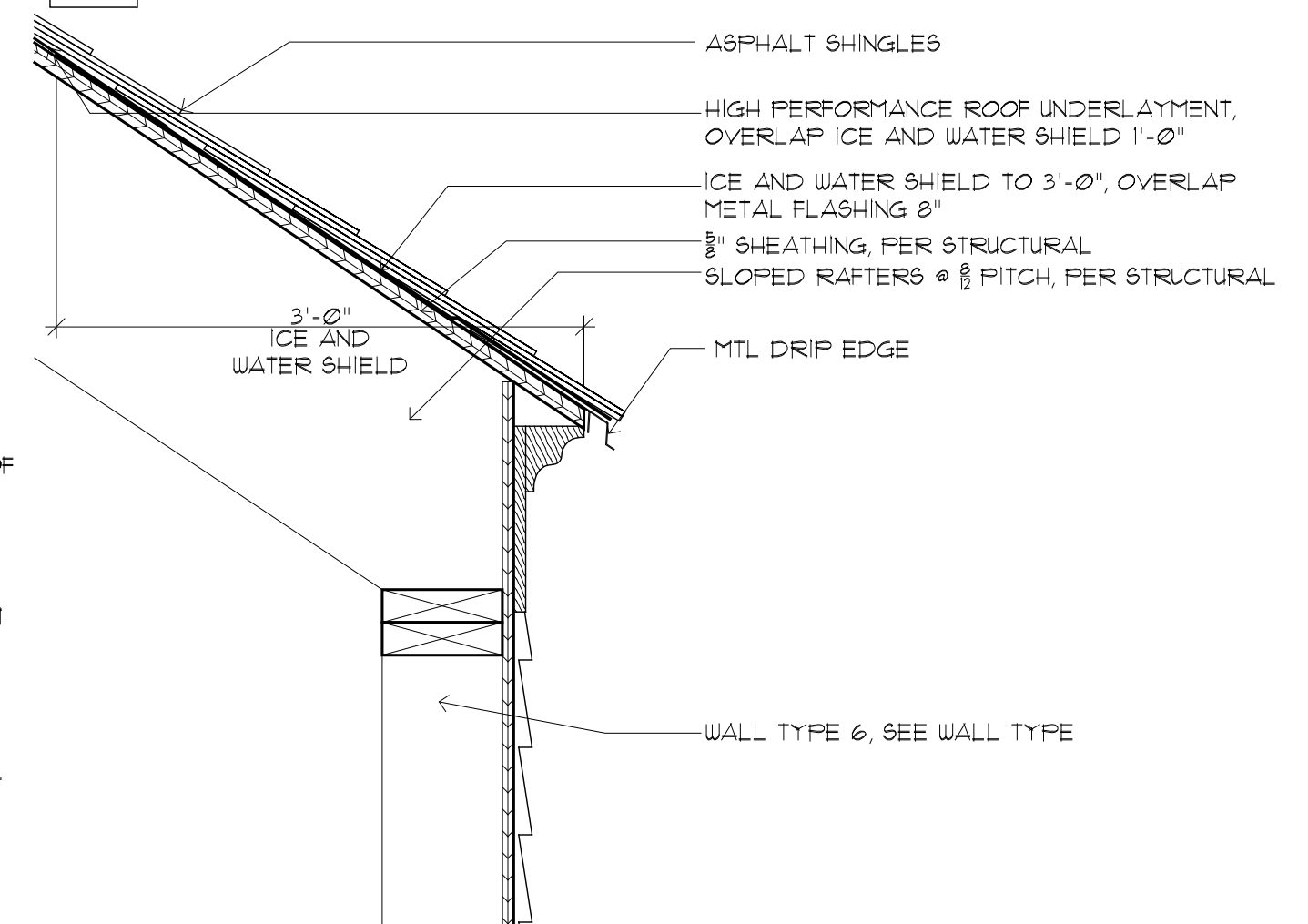
9 ROOF DETAIL @ EAVE, SHINGLE  
A420 SCALE: 1 1/2"=1'-0"



10 ROOF DETAIL @ HIP / RIDGE, SHINGLE  
A420 SCALE: 1 1/2"=1'-0"



11 ROOF DETAIL @ VALLEY, SHINGLE  
A420 SCALE: EXPLODED, NTS



12 ROOF DETAIL @ DORMER EAVE, SHINGLE  
A420 SCALE: 1 1/2"=1'-0"



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- ISSUED FOR REVISIONS
1. 03.12.2015\_SD PROGRESS
  2. 03.20.2015\_SD PROGRESS
  3. 04.01.2015\_DD PROGRESS
  4. 04.23.2015\_FOR PERMIT
  5. 05.06.2015\_MEETING
  6. 05.12.2015\_UPDATED PERMIT
  7. 05.14.2015\_FOR PRICING
  8. 06.22.2015\_REVISD PERMIT

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TITLE  
ROOF DETAILS

DATE  
06 / 22 / 2015

DRAWING #  
**A420**