

SYMBOL LEGEND

- GUTTER
- D.S. DOWNSPOUT
- ⊗ ELEVATOR VENT
- SOLAR LIGHT TUBE
- ⊠ STATIC VENT
- ▨ RIDGE VENT: HOLD 4'-0" MIN. FROM FIRE WALLS, TYP.
- ▧ INDICATES LOCATION OF FIRE RETARDENT PLYWOOD SHEATHING
- 2-HR RATED UNIT SEPARATION (U.L. DESIGN #U336)

ROOF NOTES

1. FIRE RATED SEPARATIONS TO EXTEND TO UNDERSIDE OF ROOF SHEATHING AT TENANT SEPARATION WALLS.
2. COORDINATE ALL DOWNSPOUT TIE-INS WITH CIVIL DRAWINGS. PROVIDE SPLASH BLOCKS FOR DOWNSPOUTS W/OUT TIE-INS.
3. INSTALL ALL ROOFING PRODUCTS PER MANUFACTURER STANDARD PROCEDURES AND DETAILS.
4. SUBMIT SHOP DRAWINGS OF FINAL ROOF AND FLOOR TRUSS DESIGN TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ALL ROOF TRUSSES TO BE DESIGNED BY OTHERS.
5. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL ROOF FRAMING AND DETAIL INFORMATION.
6. THIS DRAWING SHOWS ARCHITECTS DESIGN INTENT ONLY. SEE SEAL ENGINEERED TRUSS SHOP DRAWINGS FOR FINAL DESIGN.
7. MINIMIZE PENETRATIONS AND PLACE PLUMBING STACK ON REAR ROOF. PAINT PVC STACKS COLOR OF ROOF.
8. HOLD RIDGE VENT 1'-0" MINIMUM OUT FROM EDGE OF ROOF.
9. ALL THROUGH-ROOF VENTS TO BE LOCATED TO INNER ROOF WHENEVER POSSIBLE. PAINT TO MATCH SURROUNDING ROOF SHINGLES.
10. STRIP SOFFIT VENTS ARE NOT SHOWN ON ROOF PLANS. SEE ROOF VENTING CALCULATIONS ON THIS SHEET FOR MINIMUM LF REQUIRED. LOCATE STRIPS WITHIN NON-VENTED VINYL SOFFITS W/ 5/8" GYPSUM BOARD UNDERLAYMENT AS SHOWN ON EAVE DETAILS AND BALANCE ON BOTH SIDES OF RIDGE FOR CROSS FLOW.
11. ROOF PLANS SHOW ARCHITECT'S DESIGN INTENT ONLY. SEE SEALED ENGINEERED TRUSS SHOP DRAWINGS FOR ENGINEERED DESIGN.
12. INSTALL "ICE GUARD" AT ALL ROOF VALLEYS. EXTEND 24" MIN. TO EITHER SIDE.
13. INSTALL ROOFING PER MANUFACTURER STANDARD DETAILS & PROCEDURES.
14. ALL ROOF VENTS TO BE PAINTED TO MATCH SHINGLE COLOR.

14-SB-007
HTE #: 14-1089
Approved by the Town of Cary
Developmental Fee: 10,000.00
Planner: *[Signature]* Date: 02/27/2014

VENT NOTES

1. RIDGE VENTS PROVIDE 18 SI/LF OF FREE VENT AREA:
18 SI/LF = 0.125 SF/LF
2. THROUGH-ROOF STATIC VENTS PROVIDE 150 SI/LF OF FREE VENT AREA:
150 SI/LF = 1.042 SF/LF
3. ALL EAVE OVERHANGS TO HAVE:
'STRIP' SOFFIT VENTS PROVIDE 9 SI/LF OF FREE VENT AREA:
9 SI/LF = 0.0625 SF/LF

DUPLEX BLDG. - ROOF AREA A:

ROOF AREA (RA) = 3,141 SF
REQ'D VENTILATION (RA/300) = 3141 SF/300 = 10.47 SF
UPPER ROOF AREA IS REQ'D TO BE MIN. 50%/ MAX. 80% OF THE TOTAL REQ'D VENT AREA:
(50%)(10.47 SF) = 5.24 MIN. SF REQ'D
(80%)(10.47 SF) = 8.38 MAX. SF REQ'D
RIDGE VENT PROVIDED = 53 LF x 0.125 SF/LF = 6.63 SF
UPPER ROOF FREE VENT AREA = 6.63 SF

LOWER ROOF AREA REQUIRES A MIN. OF THE BALANCE OF THE TOTAL REQ'D VENT AREA:
(10.47 SF TOTAL REQ'D) - (6.63 SF UPPER VENT AREA PROVIDED) = 3.84 MIN. SF REQ'D
SOFFIT STRIP VENT PROVIDED = 70 LF x 0.0625 SF/LF = 4.38 SF
LOWER ROOF FREE VENT AREA = 4.38 SF

DUPLEX BLDG. - ROOF AREA B:

ROOF AREA (RA) = 3,080 SF
REQ'D VENTILATION (RA/300) = 3080 SF/300 = 10.27 SF
UPPER ROOF AREA IS REQ'D TO BE MIN. 50%/ MAX. 80% OF THE TOTAL REQ'D VENT AREA:
(50%)(10.27 SF) = 5.14 MIN. SF REQ'D
(80%)(10.27 SF) = 8.22 MAX. SF REQ'D
RIDGE VENT PROVIDED = 45 LF x 0.125 SF/LF = 5.63 SF
UPPER ROOF FREE VENT AREA = 5.63 SF

LOWER ROOF AREA REQUIRES A MINIMUM OF THE BALANCE OF THE TOTAL REQ'D VENT AREA:
(10.27 SF TOTAL REQ'D) - (5.63 SF UPPER VENT AREA PROVIDED) = 4.64 MIN. SF REQ'D
VENTED VINYL SOFFIT PROVIDED = 75 LF x 0.0625 SF/LF = 4.69 SF
LOWER ROOF FREE VENT AREA = 4.69 SF

