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ROOF DRAIN CALCULATIONS (MAIN ROOF)
<p>PRIMARY BUILDING ROOF: HORIZONTALLY PROJECTED ROOF AREA: 5,979 S.F. (INCLUDES PARAPET CAPS) VERTICAL WALL TRIBUTARY AREA (PLUMBING CODE, SECTION 1106.4): 1,756 S.F. x 0.5 = 880 S.F. TOTAL AREA: 6,772 S.F. # OF THROUGH-WALL SCUPPERS: 2 TRIBUTARY AREA, SCUPPER OVER COOLER: 3,386 S.F. TRIBUTARY AREA, SCUPPER OVER COOLER NEAR SERVICE DOOR: 3,386 S.F.</p> <p>RAINFALL RATE, 100 YR. 60-MINUTE PRECIPITATION, PER PLUMBING CODE, FIGURE 1106.1: 4.5 INCHES/HOUR RAINFALL RATE FOR CALCULATIONS: 5 INCHES/HOUR</p> <p>SCUPPER SIZING: FLOW RATE (GPM) = 3104 X INCHHR X TRIBUTARY AREA FLOW RATE FOR LARGEST AREA: 3104 X 5 INCHHR X 3,386 S.F. = 176,072 GPM REQUIRED PIPE SIZE AT 11/8" PER FOOT (TABLE 1106.2) = 6" (243 GPM CAPACITY) TOTAL AREA OF 6" PIPE (REQUIRED) = 23.3 SQ. IN. TOTAL AREA OF 8" X 16" SCUPPER (PROVIDED) = 129 SQ. IN. 4X5 VERTICAL LEADER CAPACITY: 360 GPM (PLUMBING CODE TABLE 1106.3)</p>
ROOF DRAIN CALCULATIONS (FRONT PORCH ROOF)
<p>FRONT PORCH BLADE ROOF: HORIZONTALLY PROJECTED ROOF AREA: 470 S.F. (INCLUDES PARAPET CAPS) VERTICAL WALL TRIBUTARY AREA (PLUMBING CODE, SECTION 1106.4): 555 S.F. x 0.5 = 278 S.F. TOTAL AREA: 748 S.F. # OF ROOF DRAINS: 3 (3 OVERFLOWS) LARGEST TRIBUTARY AREA: 359 S.F.</p> <p>RAINFALL RATE, 100 YR. 60-MINUTE PRECIPITATION, PER PLUMBING CODE, FIGURE 1106.1: 4.5 INCHES/HOUR RAINFALL RATE FOR CALCULATIONS: 5 INCHES/HOUR</p> <p>SCUPPER SIZING: FLOW RATE (GPM) = 3104 X INCHHR X TRIBUTARY AREA FLOW RATE FOR LARGEST AREA: 3104 X 5 INCHHR X 359 S.F. = 18,668 GPM REQUIRED VERTICAL PIPE SIZE (TABLE 1106.2) = 2" (30 GPM CAPACITY)</p>
ROOF DRAIN CALCULATIONS (TAKE-AWAY CANOPY)
<p>TAKE-AWAY CANOPY: HORIZONTALLY PROJECTED ROOF AREA: 38 S.F. (INCLUDES PARAPET CAPS) VERTICAL WALL TRIBUTARY AREA (PLUMBING CODE, SECTION 1106.4): 148 S.F. x 0.5 = 70 S.F. TOTAL AREA: 108 S.F. # OF ROOF DRAINS: 1 LARGEST TRIBUTARY AREA: 108 S.F.</p> <p>RAINFALL RATE, 100 YR. 60-MINUTE PRECIPITATION, PER PLUMBING CODE, FIGURE 1106.1: 4.5 INCHES/HOUR RAINFALL RATE FOR CALCULATIONS: 5 INCHES/HOUR</p> <p>SCUPPER SIZING: FLOW RATE (GPM) = 3104 X INCHHR X TRIBUTARY AREA FLOW RATE FOR LARGEST AREA: 3104 X 5 INCHHR X 108 S.F. = 5,816 GPM REQUIRED LEADER SIZE (TABLE 1106.2) = 1.34" X 2 1/2" (35 GPM CAPACITY)</p>

OUTBACK RESPONSIBILITY MATRIX			
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NOTE: GC IS RESPONSIBLE FOR ROUGH INS AND COORDINATING ALL BBI VENDORS. DELIVERY DATES TO BE VERIFIED WITH BBI CONSTRUCTION PROJECT MANAGER.



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BLOOMIN BRANDS
 HIALEAH, FL - OUTBACK STEAKHOUSE
 1751 W 48TH STREET
 HIALEAH, FLORIDA 33012

SHEET ISSUE:
 OUT TO PERMIT: 3/21/19

PRINCIPAL IN CHARGE: JC
 PROJECT ARCHITECT: MS
 DRAWN BY: CC
 SHEET TITLE: RESPONSIBILITY MATRIX / ROOF DRAIN CALCS.

SHEET NO. PROJ. NO. 2018231.29

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