



TOTAL FLAT ROOF AREA = 45,797 SF
 SOLAR PANEL AREA REQUIRED = 45,797 X 0.15 = 6,870 SF
 TOTAL PROVIDED = 7,038 SF

SINGLE-PLY ROOFING DESCRIPTION
 SINGLE PLY ROOFING BY "TENLEX" OR EQUAL
 ASTM D 6879-03

SIZE OF HORIZONTAL RAINWATER PIPING
 PER TABLE 111-2, CPC

SIZING OF RAINWATER PIPING FOR 4" PER HOUR RAINFALL INTENSITY TO HORIZONTAL PROJECTED ROOF AREAS IN SQUARE FEET

| SIZE OF PIPE IN INCHES | PIPE SLOPE | | |
|------------------------|------------|---------|---------|
| | 1/8"/FT | 1/4"/FT | 1/2"/FT |
| 3 | 822 | 1,160 | 1,644 |
| 4 | 1,800 | 2,650 | 3,760 |
| 5 | 3,340 | 4,720 | 6,680 |
| 6 | 5,150 | 7,250 | 10,200 |
| 8 | 11,500 | 16,300 | 23,000 |
| 10 | 20,700 | 29,200 | 41,400 |
| 12 | 33,300 | 47,000 | 66,600 |
| 15 | 59,500 | 84,000 | 118,000 |

RDA: ROOF DRAIN AREA IN SQUARE FOOT
 ROOF DRAINS, OVERFLOW DRAINS, AND BANNOWATER PIPING INSTALLED WITHIN THE CONSTRUCTION OF THE BUILDING SHALL BE TESTED IN CONFORMANCE WITH THE PROVISIONS OF THIS CODE FOR TESTING DRAIN, WASTE, AND VENT SYSTEMS.

