



WWW.LINDSEYARCHITECTURE.COM

Order Plans @

ROOF DRAINAGE AND GAS PIPING PLAN
 P5 1/4" = 1'-0"

| SIZING OF STORM DRAINAGE PIPING | | | | | | | |
|--|---------------------|---------------------------------|---|--|-------|------------|-------|
| LOCATION: | | PRATTVILLE, AL | | | | | |
| PRIMARY RAINFALL RATE: | | 100 YR/160 MIN PERIOD 4.2 IN/HR | | | | | |
| SECONDARY RAINFALL RATE: | | 100 YR/15 MIN PERIOD 3.4 IN/HR | | | | | |
| SIZE OF VERTICAL LEADERS TABLE 1108.1 | | | SIZE OF HORIZONTAL STORM DRAINS TABLE 1108.2 | | | | |
| LEADER DIA. (IN.) | ROOF AREA (SQ. FT.) | | HORIZ. DIA. (IN.) | MAXIMUM PROJECTED ROOF AREA FOR DRAINS OF VARIOUS SLOPES (SQ. FT.) | | | |
| | 4.2% | 8.4% | | 1/8" SLOPE | | 1/4" SLOPE | |
| | | | 4.2% | 8.4% | 4.2% | 8.4% | |
| 2 | 691 | 346 | 3 | 788 | 395 | 1114 | 557 |
| 2.5 | 1402 | 701 | 4 | 1741 | 870 | 2544 | 1272 |
| 3 | 2112 | 1056 | 5 | 3206 | 1603 | 4531 | 2266 |
| 4 | 4416 | 2208 | 6 | 5106 | 2568 | 7248 | 3624 |
| 5 | 8304 | 4152 | 8 | 11040 | 5520 | 15648 | 7824 |
| 6 | 12960 | 6480 | 10 | 19876 | 9938 | 28030 | 14015 |
| 8 | 27840 | 13920 | 12 | 31870 | 15935 | 45120 | 22560 |
| | | | 15 | 57120 | 28560 | 80650 | 40325 |

NOTES:
 1. ALL HORIZONTAL CONDUCTORS AT GRADE AND ROOF LEVEL SLOPED @ MIN. 1/8" PER FOOT.
 2. SECONDARY = EMERGENCY = OVERFLOW ROOF DRAIN
 3. THE SECONDARY ROOF DRAIN SHALL HAVE AN INVERT FROM 2" - 4" ABOVE THE PRIMARY ROOF DRAIN INVERT.

- CONSTRUCTION NOTES**
- ① 4" ROOF DRAIN TO STORM - SEE SITE CIVIL FOR CONTINUATION.
 - ② 4" OVERFLOW DRAIN TO GRADE
 - ③ 1" GAS LINE FROM BELOW.
 - ④ 1-1/4" GAS LINE FROM BELOW.

| Mk | Date | Description |
|----|------|-------------|
| | | Revisions |

ROOF DRAINAGE AND GAS PIPING PLAN

Date: 06/13/19
 Drawn By: PNK
 Check By: AWC
 Job No.: 19-037
 Sheet: