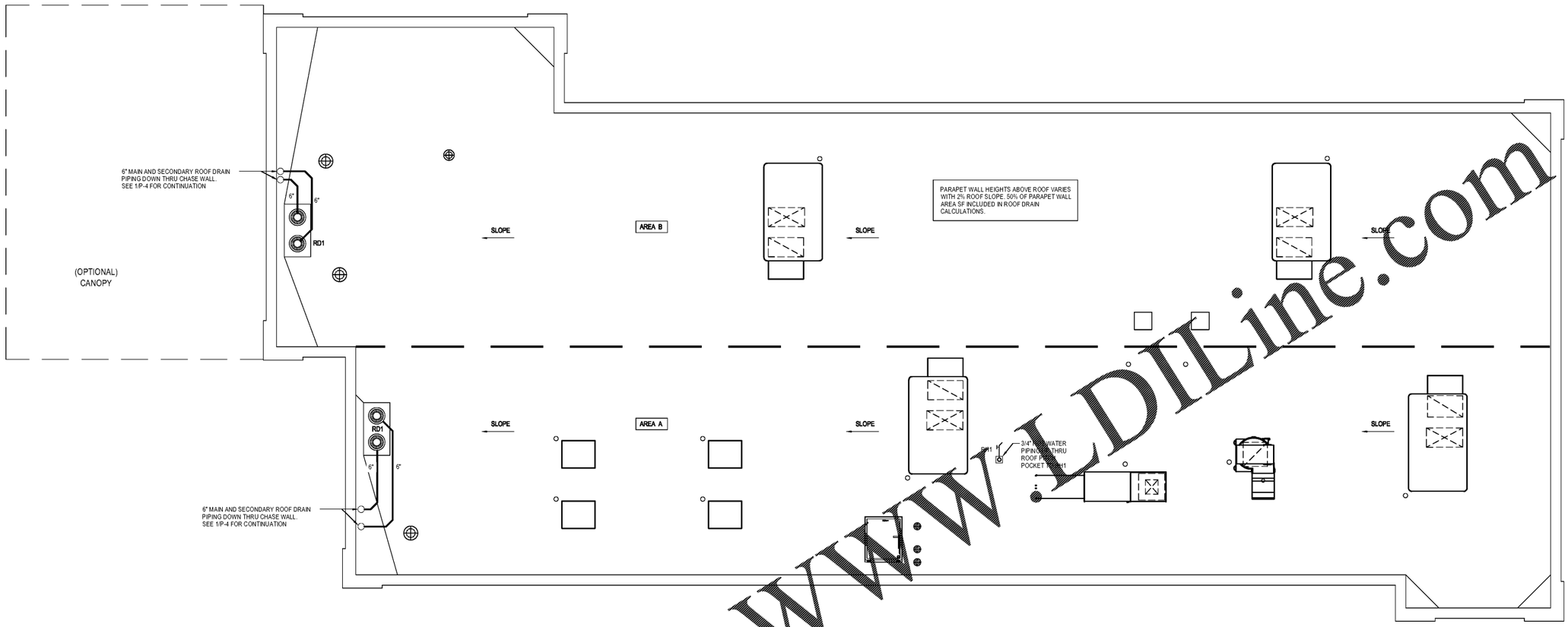


1 P-6 ROOF DRAIN PLAN

SCALE: 1/4" = 1'-0"

ROOF DRAIN CALCULATIONS

RAINFALL RATE FOR PRIMARY ROOF DRAINS
100-YEAR, 60 MINUTE PRECIPITATION (FIGURE 1106) = 4.25 IN./HR.

AREA A:

S.F. OF ROOF	1567	S.F.
1/2 AREA OF VERTICAL WALLS	429	S.F.
TOTAL PROJECTED ROOF AREA	1996	S.F.

AREA B:

S.F. OF ROOF	1845	S.F.
1/2 AREA OF VERTICAL WALLS	530	S.F.
TOTAL PROJECTED ROOF AREA	2375	S.F.

SIZE OF HORIZONTAL STORM DRAINAGE PIPING INTERPOLATED FROM TABLE 1106.3
4" HORIZONTAL PIPING @ 2% SLOPE AT 4.25 INCHES/HOUR = 2494 S.F.

SIZE OF VERTICAL STORM DRAINAGE PIPING FROM TABLE 1106.2
4" VERTICAL PIPING = 4329 S.F.

RAINFALL RATE FOR SECONDARY ROOF DRAINS
100-YEAR, 60 MINUTE PRECIPITATION (FIGURE 1106) = 7.4 IN./HR.

AREA A:

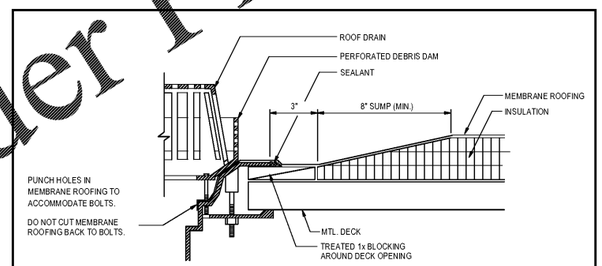
S.F. OF ROOF	1567	S.F.
1/2 AREA OF VERTICAL WALLS	429	S.F.
TOTAL PROJECTED ROOF AREA	1996	S.F.

AREA B:

S.F. OF ROOF	1845	S.F.
1/2 AREA OF VERTICAL WALLS	530	S.F.
TOTAL PROJECTED ROOF AREA	2375	S.F.

SIZE OF HORIZONTAL STORM DRAINAGE PIPING INTERPOLATED FROM TABLE 1106.3
6" HORIZONTAL PIPING @ 2% SLOPE AT 7.4 INCHES/HOUR = 4081 S.F.

SIZE OF VERTICAL STORM DRAINAGE PIPING FROM TABLE 1106.2
6" VERTICAL PIPING = 7297 S.F.



NOTES:
1. ROOF DRAIN AREAS INCLUDE 1/2 OF PARAPET HEIGHTS.
2. INSULATE HORIZONTAL ROOF DRAIN PIPING WITH 1/2" CLOSED CELL FOAM INSULATION.
3. HORIZONTAL PIPE TO BE RAN AT 1/8" PER FOOT OR MORE.

2 P-6 ROOF DRAIN DETAIL

SCALE: NTS

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WINTERVILLE NORTH CAROLINA

No	Date	Description	By

ROOF DRAIN PLAN

COOK-OUT RESTAURANTS

4145 S. MEMORIAL DRIVE
PITT COUNTY - WINTERVILLE TOWNSHIP - NORTH CAROLINA

Scale:	Date:	Drawn By	Checked By	Job No.
AS NOTED	APRIL 2019	EJB	HMSJ	E-6456D

Sheet No.
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