



ROBERT JOHNSON
architects
1808 West Morehead St.
Charlotte, NC 28208
7704 / 342.1058

STAMPS



CONSULTANT

ALBEMARLE
SHOPS

CHARLOTTE, NC

PROJECT NUMBER 1943
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SHEET TITLE
ROOF PLAN

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SHEET NUMBER

A-3.0

SCUPPER CALCULATIONS

CHARLOTTE, NC

PRIMARY RAINFALL = 3.5 NHR
SECONDARY (OVERFLOW) RAINFALL = 7.2 NHR

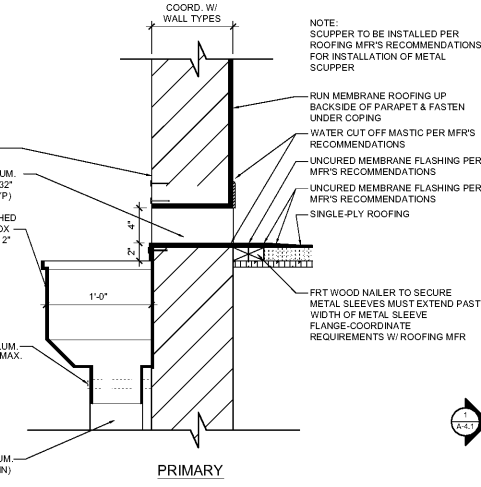
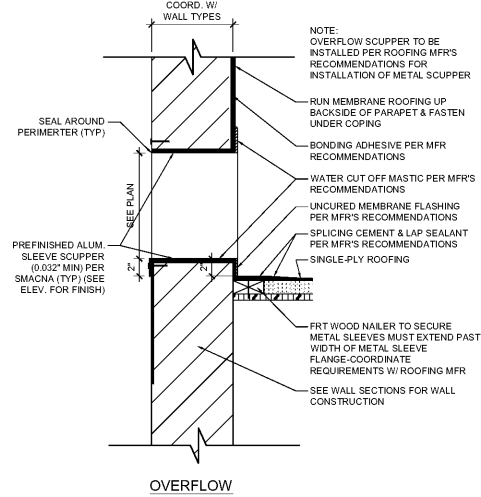
ROOF AREA = 3,941 S.F.
1/2 AREA OF PARAPET WALLS = 466 S.F.
TOTAL AREA = 4,407 S.F.

PRIMARY SCUPPERS

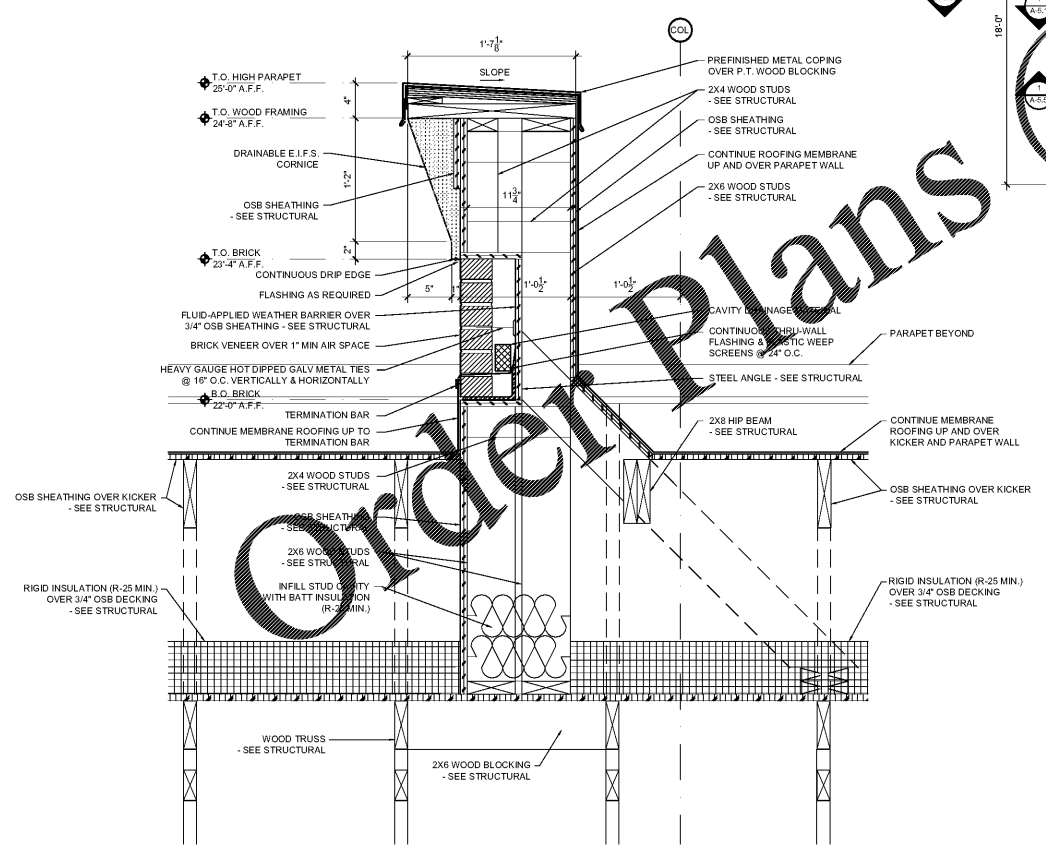
PRIMARY DRAIN SIZE = 6"x6"
PRIMARY DRAIN QUANTITY = 2
PRIMARY DRAIN DEMAND = 3.5 NHR X 4,407 S.F. = 1,542.45 CU FT HR = 9,855.31 GAL HR
PRIMARY DRAIN DESIGN = 1.5 NHR X 11,070 S.F. = 3,220.50 CU FT HR = 24,152.73 GAL HR X 2 = 48,305.46 GAL HR TOTAL

SECONDARY (OVERFLOW) SCUPPERS

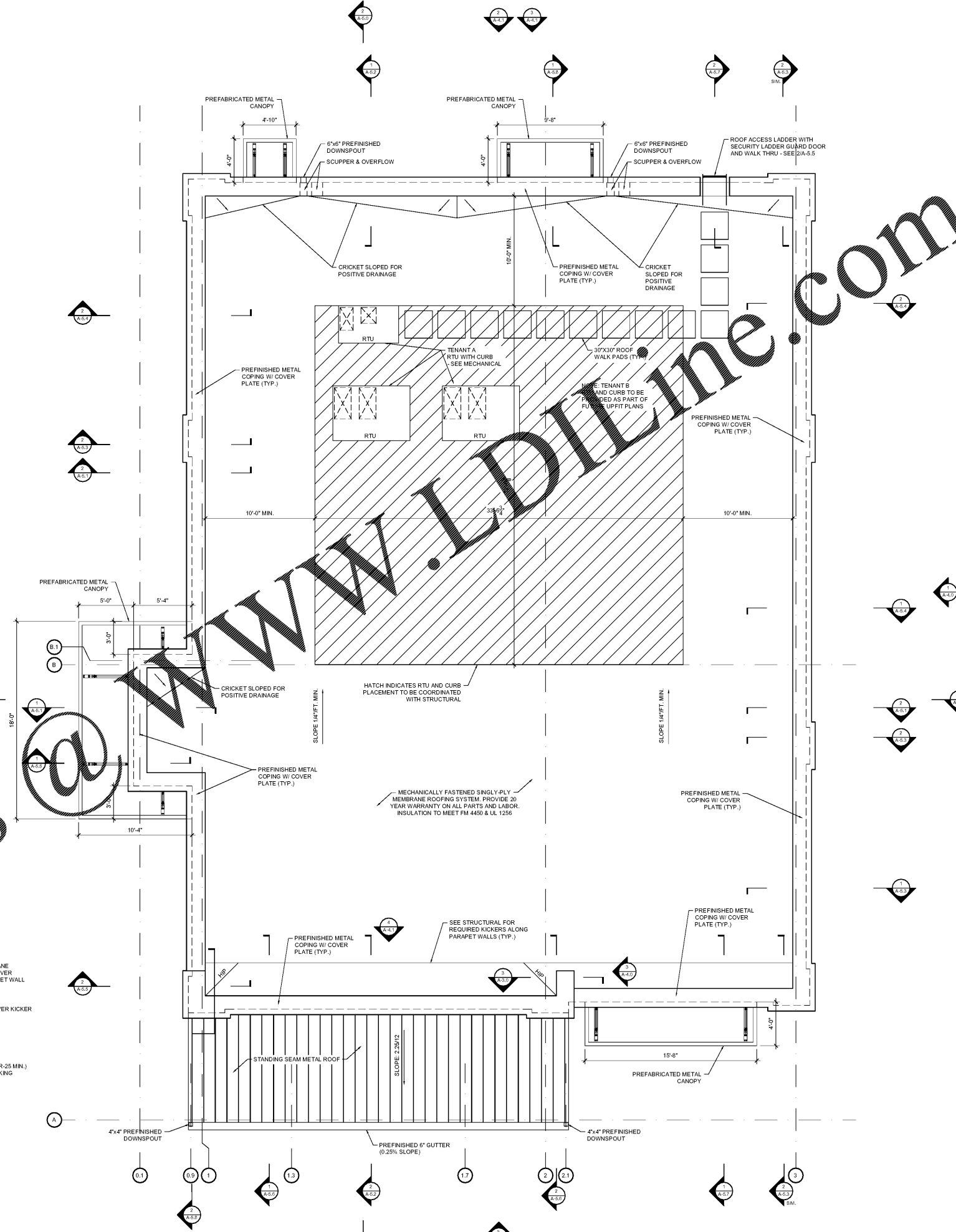
OVERFLOW SCUPPER SIZE = 4"x12"
OVERFLOW SCUPPER QUANTITY = 2
OVERFLOW SCUPPER DEMAND = 7.2 NHR X 4,407 S.F. = 26,442.24 CU FT HR = 19,779.99 GAL HR
OVERFLOW SCUPPER CAPACITY = 269 GAL MIN = 16,140 GAL HR X 2 = 32,280 GAL HR TOTAL



2 SCUPPER DETAILS
Scale: 1-1/2"=1'-0"



3 PARAPET SECTION
Scale: 1-1/2"=1'-0"



1 ROOF PLAN
Scale: 1/4"=1'-0"