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### ROOFING GENERAL NOTES

- 1. All 1/4" roofing to be TPO single ply membrane (chemical or mechanically fastened) unless otherwise noted in plan. Penetration and transition details per manufacturer installation instructions. See plan for direction.
- 2. CH/OF indicates location of 12" wide X 6" high thru-wall scupper with decorative conductor head (CH) leading to 3.5" X 5" downspout (DS) unless otherwise noted, and adjacent overflow (OF) scupper of same size. Set bottom 4" above bottom of primary scupper. Provide 6" OGEE gutters. Downspouts to be located to minimize visual impact. Refer to civil drawings.
- 3. See typical detail sheets for primary scupper and overflow scupper details.
- 4. Typical top floor plate is 9'-1 1/8" plate, cross-hatch (XXXX) indicates 12'-1 1/8" plate, as shown in plan. Parapet height measured within this area is measured from the adjusted top floor plate.
- 5. Double layer of TPO membrane roof for work area adjacent to mechanical units, hatch (XXXX) indicates.
- 6. X-X' PRPI indicates distance from top plate to top of parapet wall.
- 7. X-X' TRUSS indicates distance from top floor plate to top of box truss.
- 8. Backside of parapet wall to be TPO.
- 9. Roof truss depth to be 30' minimum.
- 10. Draftstopping location indicated by line - - - - -
- 11. Symbols below denotes general location of required ventilation.  
High: Autex Vent     Low (near lowest point of roof slope): Pap Vent
- 12. No roof penetrations are allowed 4'-0" on each side of a firewall or building area separation wall. Exterior RFI sheathing to be 4" on either side of firewalls. Extents of no penetration zone is shown with this hatch pattern: (XXXXXX)
- 13. A/C access panels to be provided, located as shown. API is a 2'x4' ceiling access panel. All access panels shall maintain same rating of the assembly and have self closing hardware. Refer to details on A2.8a. Locations shown in plan with this symbol: (API) (AP2) (AP3)
- 14. As req. provide 'color' on high ventilation pop vents to achieve 36" vertical separation from low intake vents.

### Roof Drainage - Building 1

05/30/19

Design Criteria (Based on 2012 IPC Section 1106)

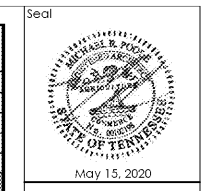
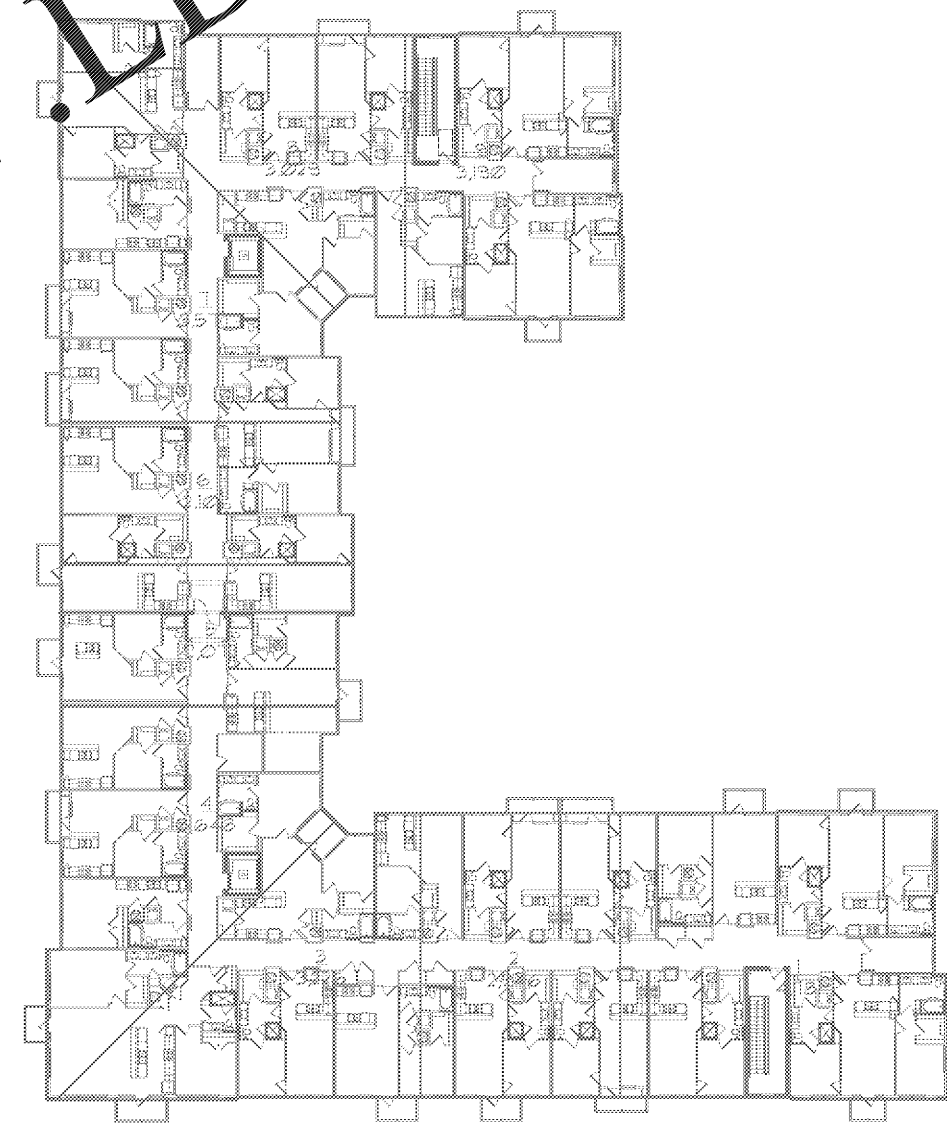
100 Year, 1 Hour Rainfall Rate= 3.5 in.	Size (in.)	Slope (in.)	Allowable Area (sq. ft.)
Downspout	4x6		9,615
Scupper	12x6		

Based on SMACNA 1-1/2" head @ 3.5 in. rainfall rate

Note: At gutter collection system, distance between downspouts not to exceed 30 feet.

### Roof Drainage Calculations

Roof Area Number	Projected Roof Area (sq. ft.)			Design Area Provided (sq. ft.)		
	Flat Roof	Parapet	Total	Downspout	Storm	Gully
1	4,761	0	4,761	9,615	N/A	N/A
2	2,946	0	2,946	9,615	N/A	N/A
3	3,226	0	3,226	9,615	N/A	N/A
4	3,648	0	3,648	9,615	N/A	N/A
5	2,072	0	2,072	9,615	N/A	N/A
6	2,101	0	2,101	9,615	N/A	N/A
7	3,577	0	3,577	9,615	N/A	N/A
8	3,029	0	3,029	9,615	N/A	N/A
9	3,190	0	3,190	9,615	N/A	N/A



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Project: 1928.00  
CADD File: MSRP  
Drawn By: SGS  
Checked By: GA

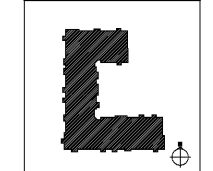
Permit Release:  
May 15, 2020  
Construction Release Set:  
May 15, 2020

Revisions

No.	Date	Description

ASI / RFI Revisions  
No. Date Description


**Borough 33**  
an Apartment Community by  
33 Broad MF, LLC  
in Chattanooga, Tennessee



Drawing Title:  
Building 1 - Roof Drainage

**A2.5b**