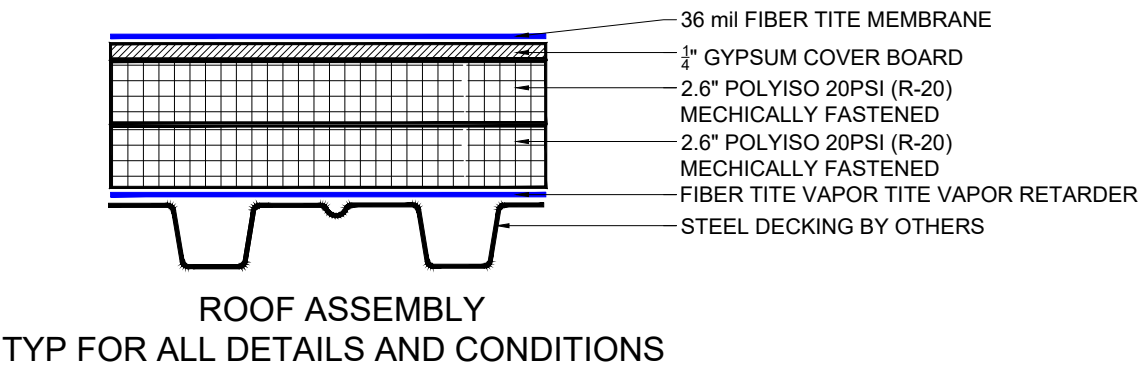
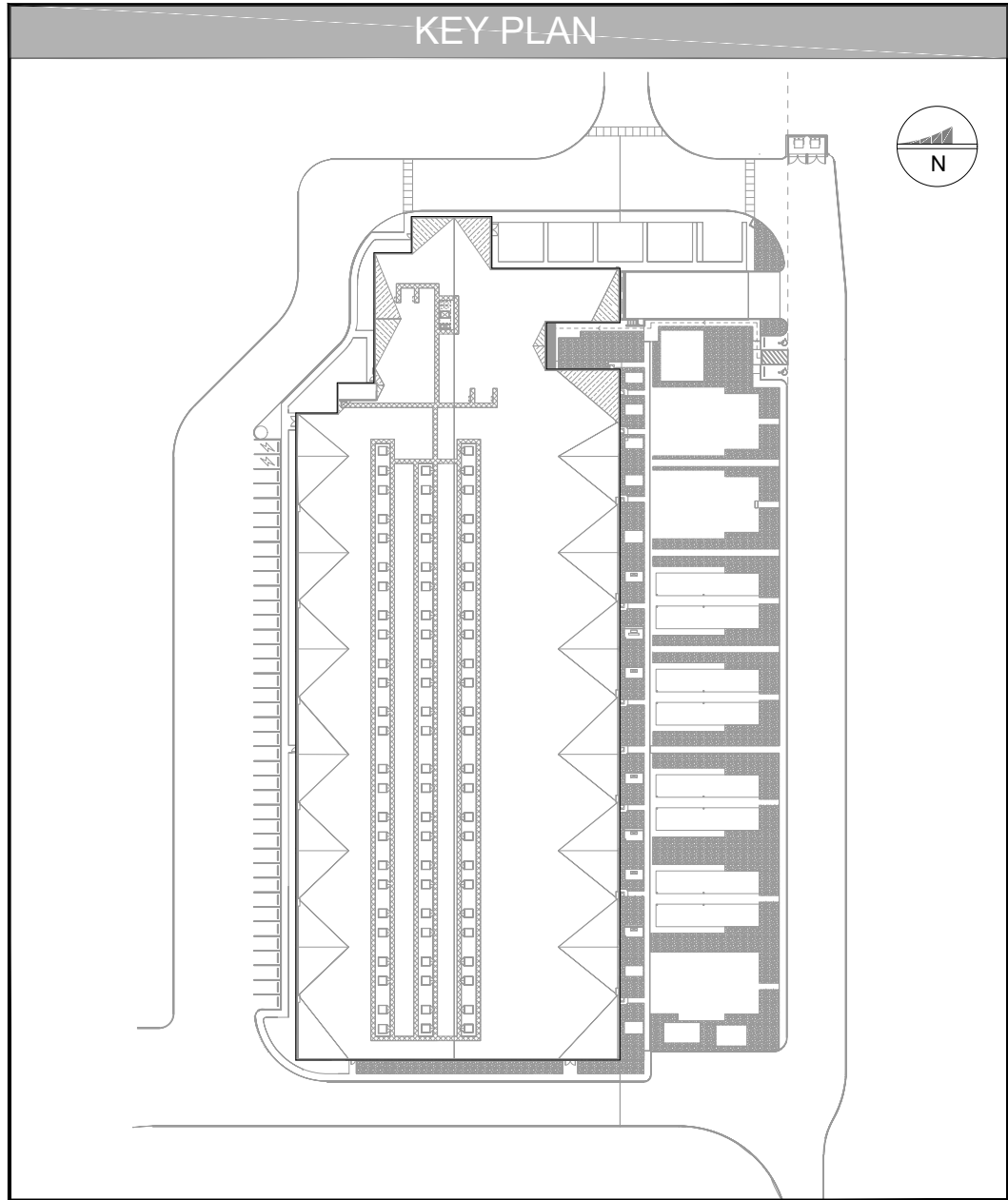




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ROOF PLAN NOTES

- ROOF SYSTEM ABOVE STEEL DECK SHALL CONSIST OF THE FOLLOWING COMPONENTS:
 - SINGLE PLY MEMBRANE
 - MECHANICALLY FASTENED 80-MIL PVC OR EPDM TYPE (WHITE COLOR)
 - ALTERNATE: FIBERTITE COATED FIBER MEMBRANE WITH EQUIVALENT PERFORMANCE
 - TPO TYPE ROOFING SHALL NOT BE USED
 - COVER BOARDS
 - 1/2" THICK ASSUMED BASIS OF DESIGN
 - R-2.5 MIN. (IN ADDITION TO RIGID INSULATION VALUE)
 - INSULATION
 - CONTINUOUS HIGH DENSITY RIGID POLYISOCYANURATE (25 PSI COMPRESSIVE STRENGTH)
 - INSULATION SHALL BE INSTALLED IN TWO LAYERS WITH STAGGERED JOINTS
 - R-20 MIN. (APPROX. 3 1/2" THICKNESS)
 - VAPOR BARRIER
 - INSTALL BETWEEN INSULATION AND STEEL ROOF DECK
 - ALL NECESSARY FLASHINGS, ADHESIVES, AND SEALANTS
- ROOFING MATERIALS AND INSTALLATION SHALL COMPLY WITH FACTORY MUTUAL CLASS 1 ROOF ASSEMBLY AND FM 1-90 ATTACHMENT REQUIREMENTS. REFER TO FACTORY MUTUAL DATA SHEETS 1-28 AND 1-29 FOR DEFINITION OF PERIMETER AND CORNER ZONES; NO PERIMETER SHALL BE LESS THAN 10 FEET IN WIDTH.
- VAPOR TIGHT SEAL SHALL BE PROVIDED AT ALL PENETRATIONS AND AT PERIMETER BETWEEN ROOF AND PRECAST WALLS.
- PROVIDE NON-SLIP WALKWAY PADS COMPATIBLE WITH ROOF MEMBRANE FROM ROOF ACCESS POINT TO, AROUND, AND BETWEEN ALL ROOF MOUNTED EQUIPMENT.
- PROVIDE TAPERED INSULATION CRICKETS AT HIGH SIDE OF ROOF CURBS. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS.
- SHEET METAL DRIP EDGES, COPING, FASCIA, AND TRIM SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL DATA SHEET 1-49, ANSI/SPRI ES-1, AND SMACNA. METAL SHALL BE ALUMINUM OR GALVANIZED STEEL WITH KYNAR 500 PAINTED FINISH. COLOR TO BE SELECTED FROM STANDARD CHART BY ARCHITECT.
- ACTUAL THICKNESS OF MATERIALS SUCH AS INSULATION AND COVER BOARDS MUST BE PRESENTED BY ROOFING CONTRACTOR FOR PROPER COORDINATION WITH OVERFLOW SCUPPER OPENINGS AT WALLS.
- ROOFTOP MECHANICAL EQUIPMENT UNIT WEIGHTS SHOWN ON ROOF PLAN ARE INCLUSIVE OF ACCESSORIES AND CURBS TO THE EXTENT POSSIBLE AT TIME OF DESIGN (NOT SHIPPING WEIGHTS). REFER TO STRUCTURAL DRAWINGS FOR LOAD ACCOMMODATIONS WHERE APPLICABLE.

ROOF DRAINAGE DATA

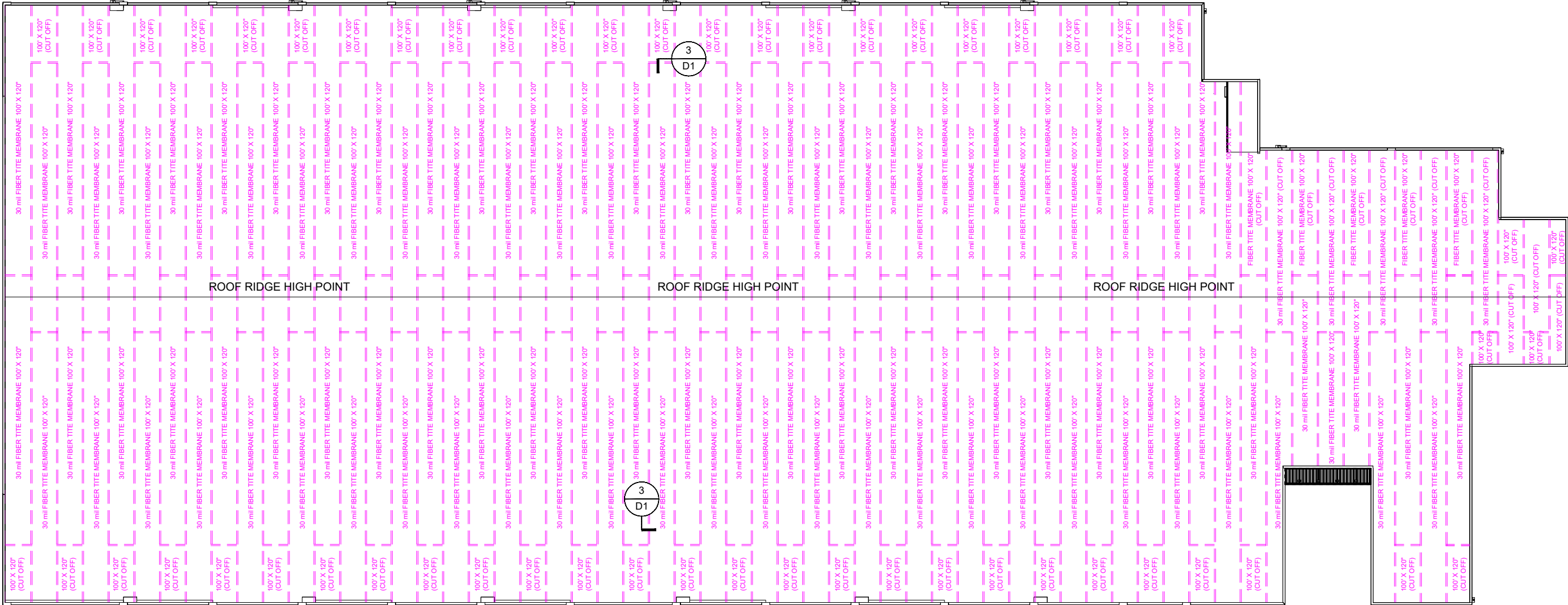
CODE REFERENCE: 2021 VIRGINIA PLUMBING CODE
DESIGN RAINFALL RATE: 3.25 INCHES - 100 YEAR, 1 HOUR RAINFALL
VPC FIGURE 1106.1(3) AND NOAA/NWS PRECIPITATION DATA

- VERTICAL CIRCULAR CONDUCTOR MAXIMUM DRAINAGE AREA (TABLE 1106.2(1))
(≥ 45 DEGREES FROM HORIZONTAL)

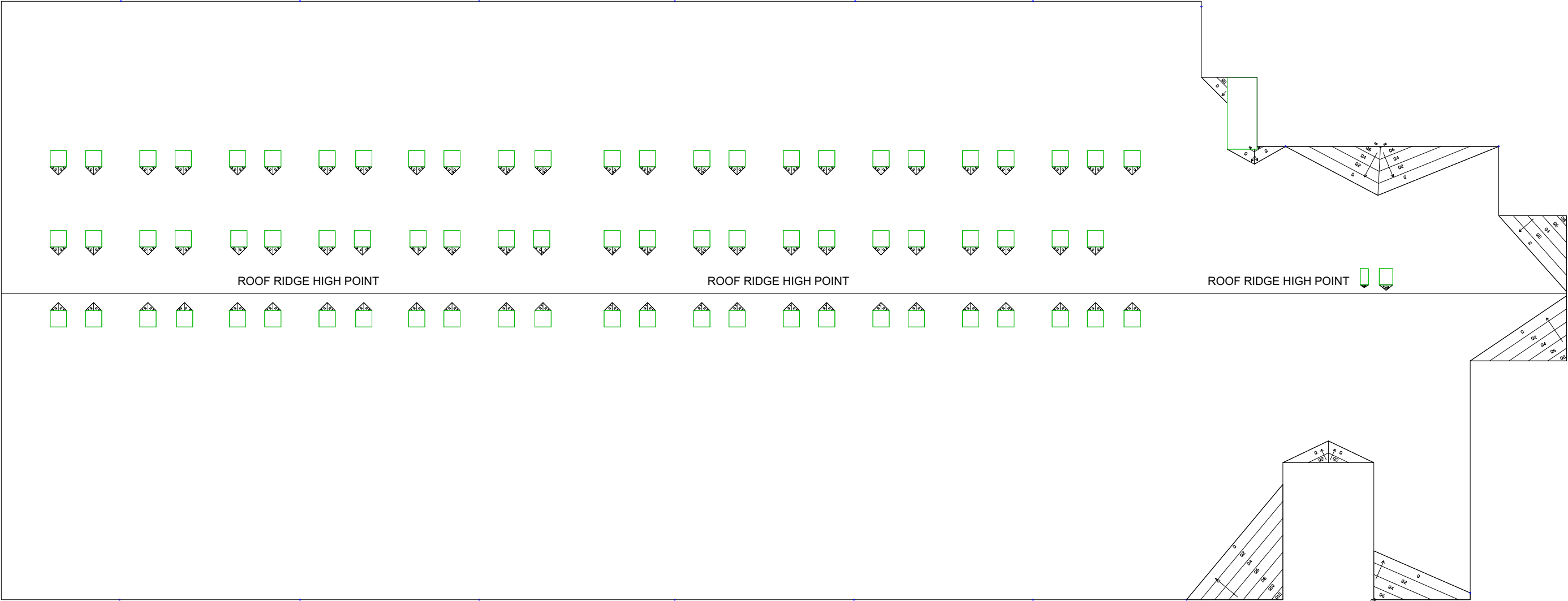
	3.00"	4.00"
5" DIA.	11,530 SF	8,650 SF
6" DIA.	17,995 SF	13,500 SF
8" DIA.	38,660 SF	29,000 SF
- HORIZONTAL CIRCULAR CONDUCTOR MAXIMUM DRAINAGE AREA (TABLE 1106.3)
(LESS THAN 45 DEGREES FROM HORIZONTAL)

@ 1/4"/FOOT SLOPE		@ 1/2"/FOOT SLOPE			
	3.00"	4.00"			
6" DIA.	10,066 SF	7,550 SF	6" DIA.	10,066 SF	7,550 SF
8" DIA.	21,733 SF	16,300 SF	8" DIA.	21,733 SF	16,300 SF
10" DIA.	38,950 SF	29,200 SF	10" DIA.	38,950 SF	29,200 SF
- VERTICAL WALLS: ONE-HALF OF THE AREA OF PARAPETS ABOVE ROOF SURFACE IS INCLUDED IN DRAINAGE AREAS (1106.4).
- PARAPET WALL SCUPPERS: SECONDARY OVERFLOW SCUPPER SIZE MUST BE MINIMUM 4" HIGH AND HAVE A WIDTH EQUAL TO OR GREATER THAN CIRCUMFERENCE OF ASSOCIATED PRIMARY DRAIN (1106.5). REFER TO ARCHITECTURAL ELEVATIONS FOR SCUPPER OPENING LOCATIONS.
- REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS.
- REFER TO STRUCTURAL DRAWINGS FOR BLOCK OUT DETAIL AT SIDE OF FOOTING FOR DRAIN PIPING.
- REFER TO CIVIL DRAWINGS FOR PIPING CONNECTIONS. ROOF DRAIN PIPING SHALL TIE INTO UNDERGROUND STORM SYSTEM UNLESS OTHERWISE NOTED. NOTIFY ARCHITECT OF ANY CONFLICTS.
- CONTRACTOR SHALL SUBMIT DOCUMENTATION OF PROPOSED STORM DRAIN APPARATUS.
- GALLONS PER MINUTE (GPM) FLOW RATE IN CHART BELOW IS PROVIDED FOR REFERENCE ONLY.

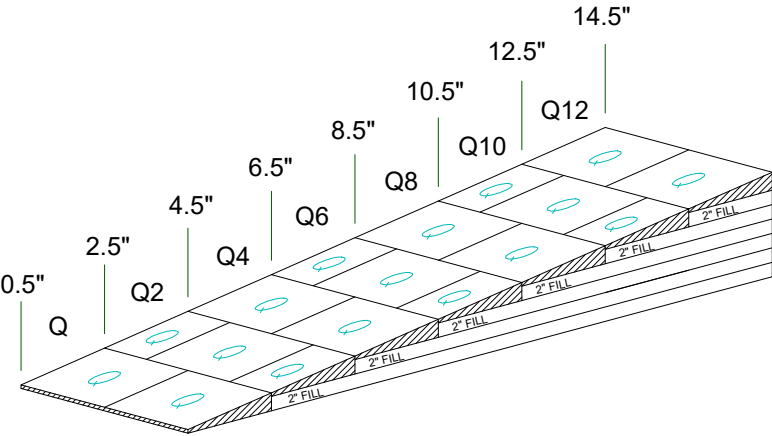
DRAIN I.D.	DRAINAGE AREA (SF)	FLOW RATE (GPM)	VERTICAL CONDUCTOR SIZE (MINIMUM)	OVERFLOW WALL SCUPPER SIZE (ACTUAL)	NOTES
01	14,041	475	6" DIA.	8" H X 20" W	EAST WALL
02	13,482	456	6" DIA.	8" H X 20 W	EAST WALL
03	14,592	493	6" DIA.	8" H X 20 W	EAST WALL
04	14,592	493	6" DIA.	8" H X 20 W	EAST WALL
05	14,592	493	6" DIA.	8" H X 20 W	EAST WALL
06	13,482	456	6" DIA.	8" H X 20 W	EAST WALL
07	12,372	418	6" DIA.	8" H X 20 W	EAST WALL
08	12,372	418	6" DIA.	8" H X 20 W	EAST WALL
09	12,372	418	6" DIA.	8" H X 20 W	EAST WALL
10	10,530	356	6" DIA.	8" H X 20 W	EAST WALL
11	11,655	394	6" DIA.	8" H X 20 W	WEST WALL
12	12,372	418	6" DIA.	8" H X 20 W	WEST WALL
13	12,372	418	6" DIA.	8" H X 20 W	WEST WALL
14	11,262	381	6" DIA.	8" H X 20 W	WEST WALL
15	13,482	456	6" DIA.	8" H X 20 W	WEST WALL
16	14,592	493	6" DIA.	8" H X 20 W	WEST WALL
17	14,592	493	6" DIA.	8" H X 20 W	WEST WALL
18	14,592	493	6" DIA.	8" H X 20 W	WEST WALL
19	14,592	493	6" DIA.	8" H X 20 W	WEST WALL
20	12,918	437	6" DIA.	8" H X 20 W	WEST WALL



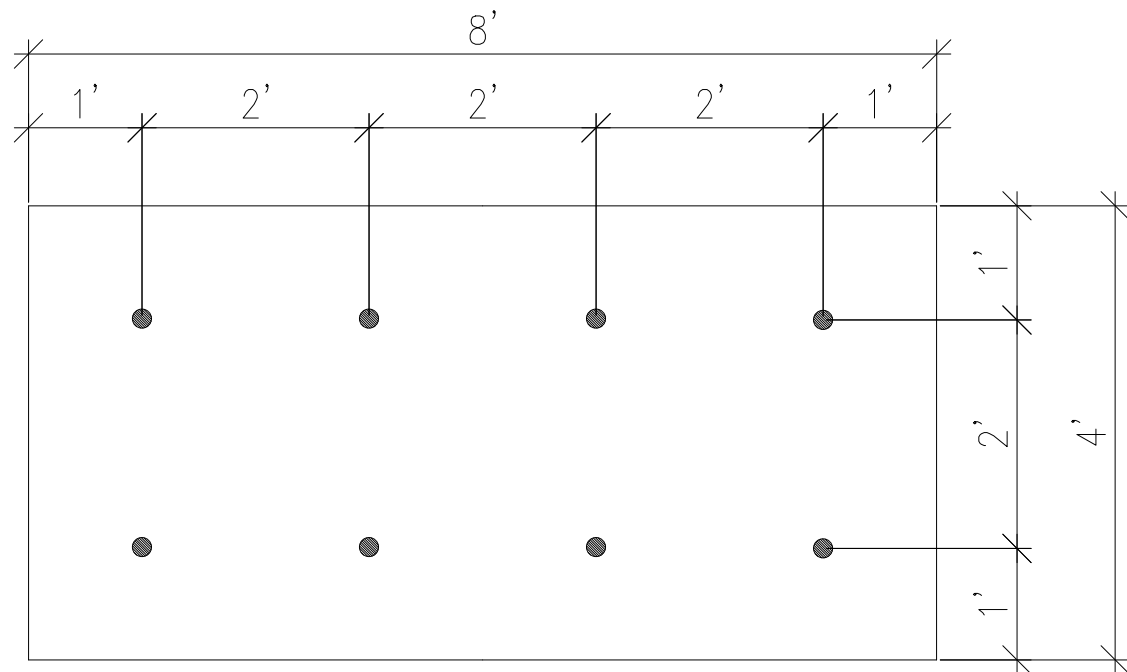
1 MEMBRANE LAYOUT
P2 SCALE: NTS



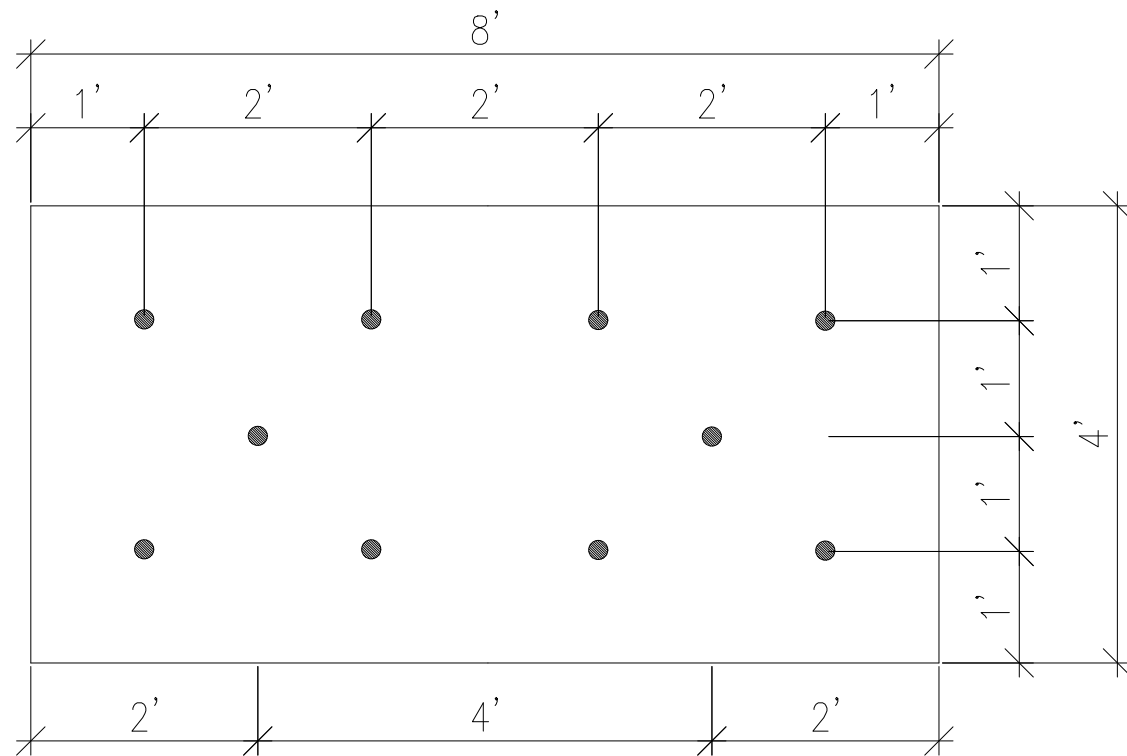
1 TAPER PLAN
P3 SCALE: NTS



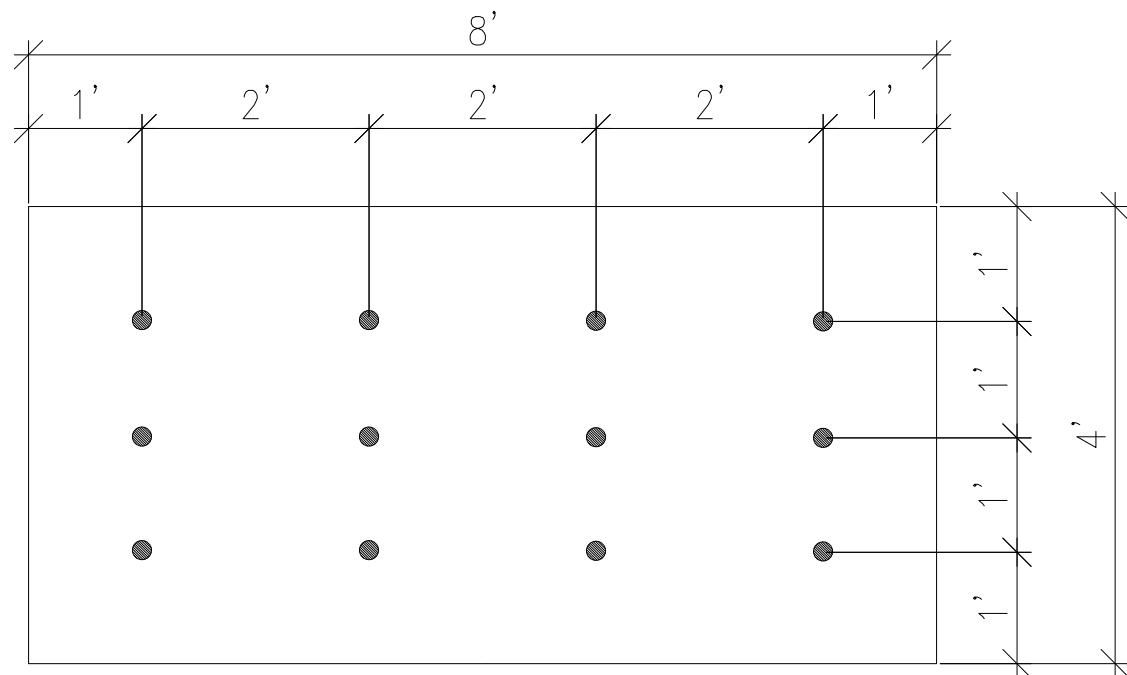
2 SECTION 1/2" / FT SLOPE
P3 SCALE: NTS



1 FIELD PLATE LAYOUT
S1 SCALE: NTS

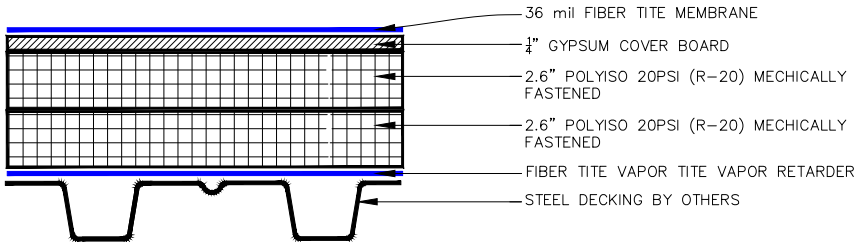


2 24" PERIMETER PLATE LAYOUT
S1 SCALE: NTS

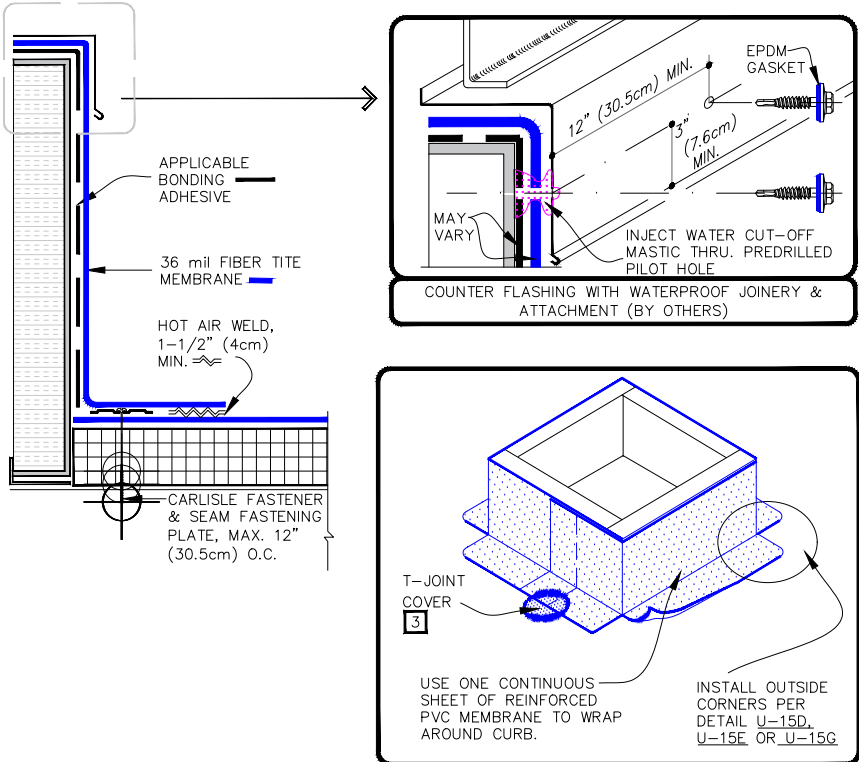


3 CORNER PLATE LAYOUT
S1 SCALE: NTS

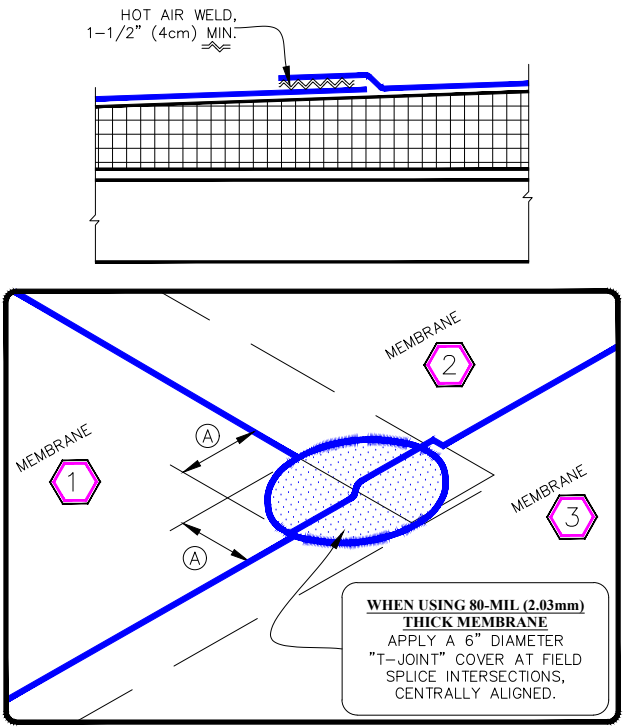
—NOTE: TYP FOR ALL DETAILS AND CONDITIONS



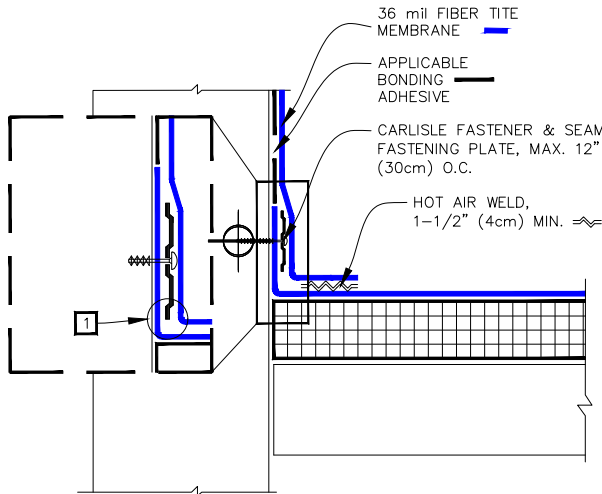
1 TYPICAL ROOF ASSEMBLY
D1 SCALE: NTS



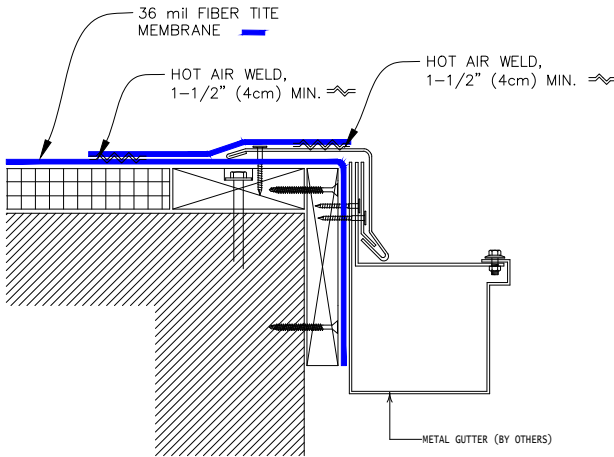
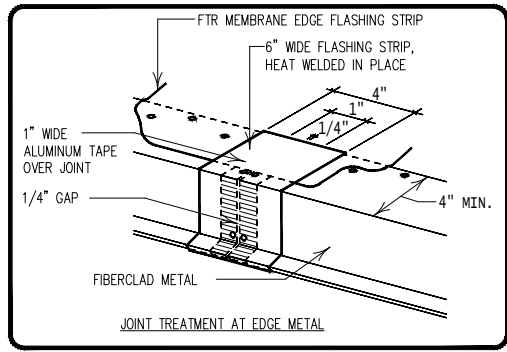
2 CURB FLASHING
D1 SCALE: NTS



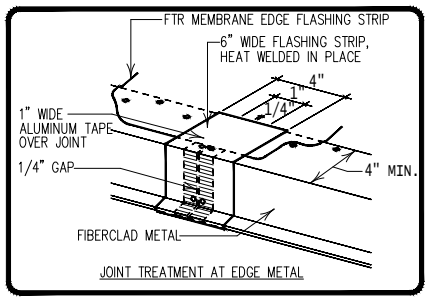
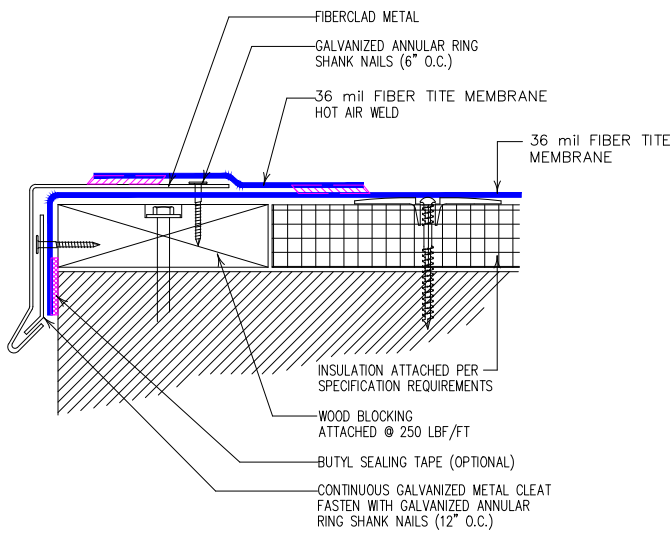
3 MEMBRANE OVERLAP
D1 SCALE: NTS



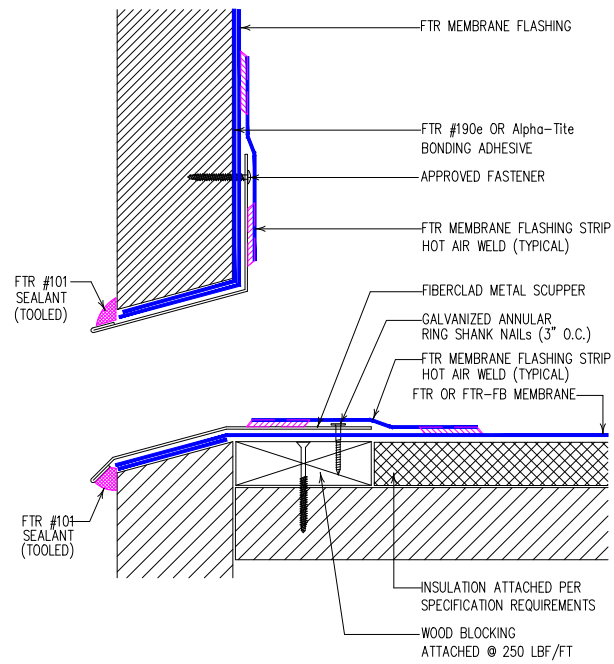
4 WALL FLASHING
D1 SCALE: NTS



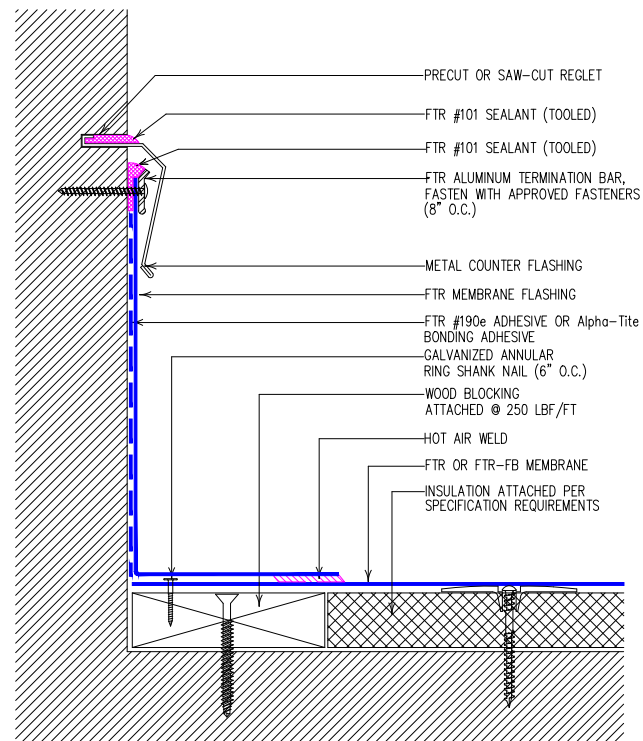
5 GUTTER FLASHING
D1 SCALE: NTS



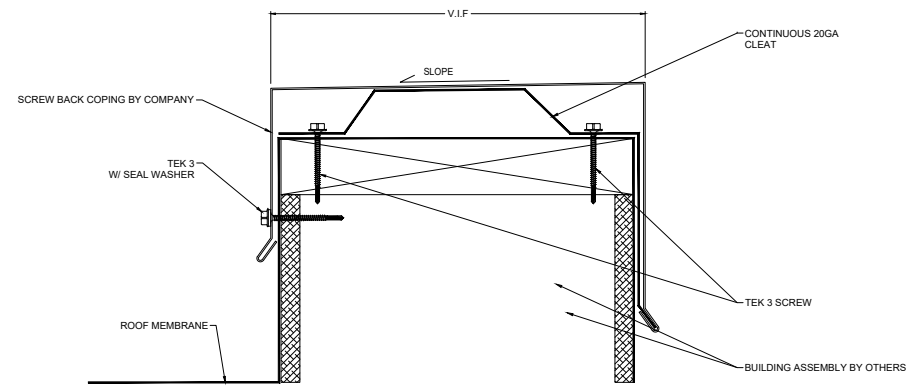
6 ROOF EDGE FLASHING
D2 SCALE: NTS



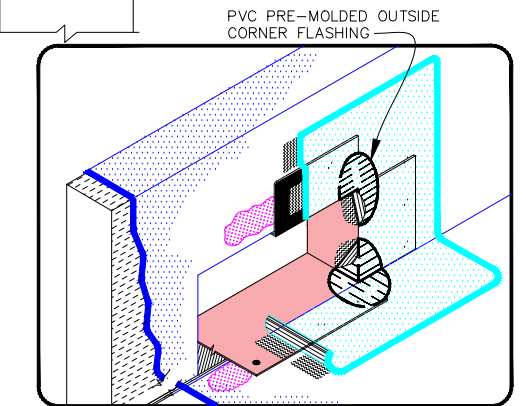
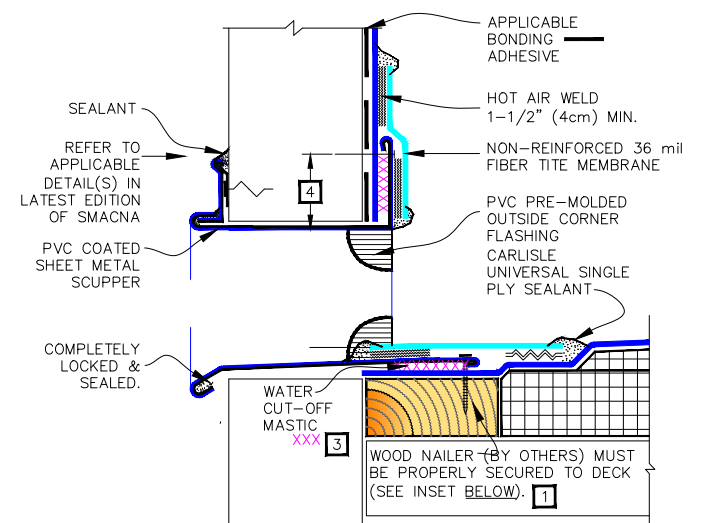
1
D2 **THROUGH WALL SCUPPER FLASHING**
SCALE: NTS



4
D2 **REGLET AT WALL FLASHING**
SCALE: NTS



2
D2 **SCREWBACK COPING**
SCALE: NTS



PREFABRICATED SCUPPER WITH PVC COATED METAL

3
D2 **OVERFLOW SCUPPER**
SCALE: NTS