

Building Data Summary	
Project ID:	Urban Living Phase 2
Location:	Urban Living Phase 2 Mansfield, Texas
Scope of Work:	Roofing
Date:	

Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
DIVISION.01 GENERAL REQUIREMENTS														
1		Supervision and Coordination	LS	1	0%	1	\$ -	\$ -	1000.000	\$ 45.00	\$ 45,000.00	\$ 45,000.00	\$ 45,000.00	
2		Submittals and Shop drawings	LS	1	0%	1	\$ 6,500.00	\$ 6,500.00	0.000	\$ -	\$ -	\$ -	\$ 6,500.00	
3		Final Cleaning	LS	1	0%	1	\$ -	\$ -	180.000	\$ 45.00	\$ 8,100.00	\$ 8,100.00	\$ 8,100.00	
4		Mobilization Costs	LS	1	0%	1	\$ 20,000.00	\$ 20,000.00	0.000	\$ -	\$ -	\$ -	\$ 20,000.00	
5		Temporary Control & Facilities	LS	1	0%	1	\$ 12,000.00	\$ 12,000.00	0.000	\$ -	\$ -	\$ -	\$ 12,000.00	
Subtotal (General Requirements)														\$ 91,600
DIVISION 07- THERMAL & MOISTURE PROTECTION														
		Building 1												
		Roof Covering												
6		Cover Board	SF	70166	5%	73674	\$ 1.05	\$ 77,358.02	0.007	\$ 45.00	\$ 0.32	\$ 23,207.40	\$ 100,565.42	
7		TPO Roof Membrane Adhered	SF	76929	5%	80775	\$ 1.85	\$ 149,434.58	0.013	\$ 45.00	\$ 0.59	\$ 47,253.64	\$ 196,688.22	
8		Standing Seam Metal Roof	SF	1731	5%	1818	\$ 4.75	\$ 8,633.36	0.045	\$ 55.00	\$ 2.48	\$ 4,498.44	\$ 13,131.80	
		Insulation												
9		Tapered Insulation	SF	15797	5%	16587	\$ 1.75	\$ 29,026.99	0.009	\$ 45.00	\$ 0.41	\$ 6,717.67	\$ 35,744.66	
10		R-13 Batt Insulation	SF	13567	5%	14245	\$ 0.60	\$ 8,547.21	0.008	\$ 45.00	\$ 0.36	\$ 5,128.33	\$ 13,675.54	
11		R-7.5 Polyisocyanurate Insulation	SF	56599	5%	59429	\$ 0.80	\$ 47,543.16	0.006	\$ 45.00	\$ 0.27	\$ 16,045.82	\$ 63,588.98	
		Flashing												
12		Hip Flashing	LF	106	5%	111	\$ 4.50	\$ 500.85	0.050	\$ 55.00	\$ 2.75	\$ 306.08	\$ 806.93	
13		Step Wall Flashing	LF	1155	5%	1213	\$ 4.00	\$ 4,851.00	0.050	\$ 55.00	\$ 2.75	\$ 3,335.06	\$ 8,186.06	
14		Flashing For Roof Hatch & Elevator Shaft	LF	56	5%	59	\$ 6.00	\$ 352.80	0.060	\$ 55.00	\$ 3.30	\$ 194.04	\$ 546.84	
15		Flashing For Discharge Nozzle	LF	140	5%	147	\$ 5.00	\$ 735.00	0.060	\$ 55.00	\$ 3.30	\$ 485.10	\$ 1,220.10	
16		Flashing For Roof And Overflow Drains	LF	142	5%	149	\$ 5.00	\$ 745.50	0.060	\$ 55.00	\$ 3.30	\$ 492.03	\$ 1,237.53	
17		Metal Sheet Coping Cap Flashing w/Fasteners (3" To 6" O.C) Stagger	LF	4210	5%	4421	\$ 14.00	\$ 61,887.00	0.080	\$ 55.00	\$ 4.40	\$ 19,450.20	\$ 81,337.20	
18		24 GA Galvanized Metal Compression Flashing w/ Fasteners 8"O.C	LF	3516	5%	3692	\$ 7.50	\$ 27,688.50	0.060	\$ 55.00	\$ 3.30	\$ 12,182.94	\$ 39,871.44	
		Soffit & Vent												
19		Soffit Vent	LF	334	5%	351	\$ 6.50	\$ 2,279.55	0.050	\$ 45.00	\$ 2.25	\$ 789.08	\$ 3,068.63	
20		Fiber Cement Board Soffit	SF	4051	5%	4254	\$ 2.75	\$ 11,697.26	0.035	\$ 45.00	\$ 1.58	\$ 6,699.34	\$ 18,396.60	
		Gutter												
21		(3"x8") Aluminum Gutter	LF	1445	5%	1517	\$ 12.00	\$ 18,207.00	0.080	\$ 55.00	\$ 4.40	\$ 6,675.90	\$ 24,882.90	
		Hatch & Ladder												
22		(4'-8" x 4'-8") Roof Hatch Access	EA	2	0%	2	\$ 2,400.00	\$ 4,800.00	8.000	\$ 55.00	\$ 440.00	\$ 880.00	\$ 5,680.00	
23		Ladder (16' H) (Detail Not Given)	EA	2	0%	2	\$ 1,800.00	\$ 3,600.00	10.000	\$ 55.00	\$ 550.00	\$ 1,100.00	\$ 4,700.00	
		Bar												
24		Termination Bar w/ Fastened 12" O.C	LF	3516	5%	3692	\$ 1.20	\$ 4,430.16	0.020	\$ 45.00	\$ 0.90	\$ 3,322.62	\$ 7,752.78	
25		Bar Grating Mat (Assumed) Detail Not Mention	SF	3316	5%	3482	\$ 9.00	\$ 31,336.20	0.050	\$ 55.00	\$ 2.75	\$ 9,574.95	\$ 40,911.15	
		Nozzle												
26		Discharge Nozzle	EA	35	0%	35	\$ 85.00	\$ 2,975.00	1.000	\$ 55.00	\$ 55.00	\$ 1,925.00	\$ 4,900.00	
		Drain												
27		Roof And Overflow Drain (Zurn 163)	EA	71	0%	71	\$ 650.00	\$ 46,150.00	3.500	\$ 55.00	\$ 192.50	\$ 13,667.50	\$ 59,817.50	
		Tape												
28		(6") Flashing Tape	LF	3516	5%	3692	\$ 1.10	\$ 4,060.98	0.015	\$ 45.00	\$ 0.68	\$ 2,491.97	\$ 6,552.95	
		Strip & Cleat												
29		Starter Strip	LF	3516	5%	3692	\$ 2.50	\$ 9,229.50	0.030	\$ 55.00	\$ 1.65	\$ 6,091.47	\$ 15,320.97	
30		Cleat	LF	3210	5%	3371	\$ 2.25	\$ 7,583.63	0.030	\$ 55.00	\$ 1.65	\$ 5,561.33	\$ 13,144.95	
		Sealant												
31		Sealant At Parapet Coping & Compression Flashing	LF	11611	5%	12192	\$ 0.85	\$ 10,362.82	0.020	\$ 45.00	\$ 0.90	\$ 10,972.40	\$ 21,335.21	
		Building 2												
		Roof Covering												
32		Cover Board	SF	34734	5%	36471	\$ 1.05	\$ 38,294.24	0.007	\$ 45.00	\$ 0.32	\$ 11,488.27	\$ 49,782.51	
33		TPO Roof Membrane Adhered	SF	37929	5%	39825	\$ 1.85	\$ 73,677.08	0.013	\$ 45.00	\$ 0.59	\$ 23,297.89	\$ 96,974.97	
34		Standing Seam Metal Roof	SF	800	5%	840	\$ 4.75	\$ 3,990.00	0.045	\$ 55.00	\$ 2.48	\$ 2,079.00	\$ 6,069.00	
		Insulation												
35		Tapered Insulation	SF	6347	5%	6664	\$ 1.75	\$ 11,662.61	0.009	\$ 45.00	\$ 0.41	\$ 2,699.06	\$ 14,361.67	
36		R-13 Batt Insulation	SF	8908	5%	9353	\$ 0.60	\$ 5,612.04	0.008	\$ 45.00	\$ 0.36	\$ 3,367.22	\$ 8,979.26	
37		R-7.5 Polyisocyanurate Insulation	SF	25835	5%	27127	\$ 0.80	\$ 21,701.40	0.006	\$ 45.00	\$ 0.27	\$ 7,324.22	\$ 29,025.62	
		Flashing												
38		Hip Flashing	LF	171	5%	180	\$ 4.50	\$ 807.98	0.050	\$ 55.00	\$ 2.75	\$ 493.76	\$ 1,301.74	
39		Step Wall Flashing	LF	446	5%	468	\$ 4.00	\$ 1,873.20	0.050	\$ 55.00	\$ 2.75	\$ 1,287.83	\$ 3,161.03	
40		Flashing For Roof Hatch & Elevator Shaft	LF	56	5%	59	\$ 6.00	\$ 352.80	0.060	\$ 55.00	\$ 3.30	\$ 194.04	\$ 546.84	
41		Flashing For Discharge Nozzle	LF	64	5%	67	\$ 5.00	\$ 336.00	0.060	\$ 55.00	\$ 3.30	\$ 221.76	\$ 557.76	
42		Flashing For Roof And Overflow Drains	LF	64	5%	67	\$ 5.00	\$ 336.00	0.060	\$ 55.00	\$ 3.30	\$ 221.76	\$ 557.76	
43		Metal Sheet Coping Cap Flashing w/Fasteners (3" To 6" O.C) Stagger	LF	2060	5%	2163	\$ 14.00	\$ 30,282.00	0.080	\$ 55.00	\$ 4.40	\$ 9,517.20	\$ 39,799.20	
44		24 GA Galvanized Metal Compression Flashing w/ Fasteners 8"O.C	LF	1356	5%	1424	\$ 7.50	\$ 10,678.50	0.060	\$ 55.00	\$ 3.30	\$ 4,698.54	\$ 15,377.04	
		Soffit & Vent												
45		Soffit Vent	LF	274	5%	288	\$ 6.50	\$ 1,870.05	0.050	\$ 45.00	\$ 2.25	\$ 647.33	\$ 2,517.38	
46		Fiber Cement Board Soffit	SF	3186	5%	3345	\$ 2.75	\$ 9,199.58	0.035	\$ 45.00	\$ 1.58	\$ 5,268.85	\$ 14,468.42	
		Gutter												
47		(3"x8") Aluminum Gutter	LF	572	5%	601	\$ 12.00	\$ 7,207.20	0.080	\$ 55.00	\$ 4.40	\$ 2,642.64	\$ 9,849.84	
		Hatch & Ladder												
48		(4'-8" x 4'-8") Roof Hatch Access	EA	1	0%	1	\$ 2,400.00	\$ 2,400.00	8.000	\$ 55.00	\$ 440.00	\$ 440.00	\$ 2,840.00	
49		Ladder (16' H) (Detail Not Given)	EA	1	0%	1	\$ 1,800.00	\$ 1,800.00	10.000	\$ 55.00	\$ 550.00	\$ 550.00	\$ 2,350.00	
		Bar												
50		Termination Bar w/ Fastened 12" O.C	LF	1356	5%	1424	\$ 1.20	\$ 1,708.56	0.020	\$ 45.00	\$ 0.90	\$ 1,281.42	\$ 2,989.98	
51		Bar Grating Mat (Assumed) Detail Not Mention	SF	1532	5%	1609	\$ 9.00	\$ 14,477.40	0.050	\$ 55.00	\$ 2.75	\$ 4,423.65	\$ 18,901.05	
		Nozzle												
52		Discharge Nozzle	EA	16	0%	16	\$ 85.00	\$ 1,360.00	1.000	\$ 55.00	\$ 55.00	\$ 880.00	\$ 2,240.00	
		Drain												
53		Roof And Overflow Drain (Zurn 163)	EA	32	0%	32	\$ 650.00	\$ 20,800.00	3.500	\$ 55.00	\$ 192.50	\$ 6,160.00	\$ 26,960.00	
		Tape												
54		(6") Flashing Tape	LF	1356	5%	1424	\$ 1.10	\$ 1,566.18	0.015	\$ 45.00	\$ 0.68	\$ 961.07	\$ 2,527.25	
		Strip & Cleat												
55		Starter Strip	LF	1356	5%	1424	\$ 2.50	\$ 3,559.50	0.030	\$ 55.00	\$ 1.65	\$ 2,349.27	\$ 5,908.77	
56		Cleat	LF	2060	5%	2163	\$ 2.25	\$ 4,866.75	0.030	\$ 55.00	\$ 1.65	\$ 3,568.95	\$ 8,435.70	
		Sealant												
57		Sealant At Parapet Coping & Compression Flashing	LF	5476	5%	5750	\$ 0.85	\$ 4,887.33	0.020	\$ 45.00	\$ 0.90	\$ 5,174.82	\$ 10,062.15	
		Building 3												
		Roof Covering												
58		Cover Board	SF	34563	5%	36291	\$ 1.05	\$ 38,105.71	0.007	\$ 45.00	\$ 0.32	\$ 11,431.71	\$ 49,537.42	
59		TPO Roof Membrane Adhered	SF	37749	5%	39636	\$ 1.85	\$ 73,327.43	0.013	\$ 45.00	\$ 0.59	\$ 23,187.32	\$ 96,514.76	
60		Standing Seam Metal Roof	SF	785	5%	824	\$ 4.75	\$ 3,915.19	0.045	\$ 55.00	\$ 2.48	\$ 2,040.02	\$ 5,955.21	
		Insulation												
61		Tapered Insulation	SF	6359	5%	6677	\$ 1.75	\$ 11,684.66	0.009	\$ 45.00	\$ 0.41	\$ 2,704.16	\$ 14,388.83	
62		R-13 Batt Insulation	SF	8917	5%	9363	\$ 0.60	\$ 5,617.71	0.008	\$ 45.00	\$ 0.36	\$ 3,370.63	\$ 8,988.34	
63		R-7.5 Polyisocyanurate Insulation	SF	25647	5%	26929	\$ 0.80	\$ 21,543.48	0.006	\$ 45.00	\$ 0.27	\$ 7,270.92	\$ 28,814.40	
		Flashing												
64		Hip Flashing	LF	170	5%	179	\$ 4.50	\$ 803.25	0.050	\$ 55.00	\$ 2.75	\$ 490.88	\$ 1,294.13	
65		Step Wall Flashing	LF	448	5%	470	\$ 4.00	\$ 1,881.60	0.050	\$ 55.00	\$ 2.75	\$ 1,293.60	\$ 3,175.20	
66		Flashing For Roof Hatch & Elevator Shaft	LF	56	5%	59	\$ 6.00	\$ 352.80	0.060	\$ 55.00	\$ 3.30	\$ 194.04	\$ 546.84	
67		Flashing For Discharge Nozzle	LF	64	5%	67	\$ 5.00	\$ 336.00	0.060	\$ 55.00	\$ 3.30	\$ 221.76	\$ 557.76	
68		Flashing For Roof And Overflow Drains	LF	64	5%	67	\$ 5.00	\$ 336.00	0.060	\$ 55.00	\$ 3.30	\$ 221.76	\$ 557.76	
69		Metal Sheet Coping Cap Flashing w/Fasteners (3" To 6" O.C) Stagger	LF	2060	5%	2163	\$ 14.00	\$ 30,282.00	0.080	\$ 55.00	\$ 4.40	\$ 9,517.20	\$ 39,799.20	
70		24 GA Galvanized Metal Compression Flashing w/ Fasteners 8"O.C	LF	1356	5%	1424	\$ 7.50	\$ 10,678.50	0.060	\$ 55.00	\$ 3.30	\$ 4,698.54	\$ 15,377.04	
		Soffit & Vent												
71		Soffit Vent	LF	290	5%									

Building Data Summary	
Project ID:	Urban Living Phase 2
Location:	Urban Living Phase 2 Mansfield, Texas
Scope of Work:	Roofing
Date:	

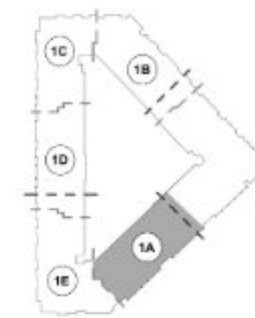
Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
74		(4'-8" x 4'-8") Roof Hatch Access	EA	1	0%	1	\$ 2,400.00	\$ 2,400.00	8.000	\$ 55.00	\$ 440.00	\$ 440.00	\$ 2,840.00	
75		Ladder (16' H) (Detail Not Given)	EA	1	0%	1	\$ 1,800.00	\$ 1,800.00	10.000	\$ 55.00	\$ 550.00	\$ 550.00	\$ 2,350.00	
		Bar												
76		Termination Bar w/ Fastened 12" O.C	LF	1356	5%	1424	\$ 1.20	\$ 1,708.56	0.020	\$ 45.00	\$ 0.90	\$ 1,281.42	\$ 2,989.98	
77		Bar Grating Mat (Assumed) Detail Not Mention	SF	1222	5%	1283	\$ 9.00	\$ 11,547.90	0.050	\$ 55.00	\$ 2.75	\$ 3,528.53	\$ 15,076.43	
		Nozzle												
78		Discharge Nozzle	EA	16	0%	16	\$ 85.00	\$ 1,360.00	1.000	\$ 55.00	\$ 55.00	\$ 880.00	\$ 2,240.00	
		Drain												
79		Roof And Overflow Drain (Zurn 163)	EA	32	0%	32	\$ 650.00	\$ 20,800.00	3.500	\$ 55.00	\$ 192.50	\$ 6,160.00	\$ 26,960.00	
		Tape												
80		(6") Flashing Tape	LF	1356	5%	1424	\$ 1.10	\$ 1,566.18	0.015	\$ 45.00	\$ 0.68	\$ 961.07	\$ 2,527.25	
		Strip & Cleat												
81		Starter Strip	LF	1356	5%	1424	\$ 2.50	\$ 3,559.50	0.030	\$ 55.00	\$ 1.65	\$ 2,349.27	\$ 5,908.77	
82		Cleat	LF	2060	5%	2163	\$ 2.25	\$ 4,866.75	0.030	\$ 55.00	\$ 1.65	\$ 3,568.95	\$ 8,435.70	
		Sealant												
83		Sealant At Parapet Coping & Compression Flashing	LF	5476	5%	5750	\$ 0.85	\$ 4,887.33	0.020	\$ 45.00	\$ 0.90	\$ 5,174.82	\$ 10,062.15	
Subtotal (Thermal & Moisture Protection)							\$ 1,120,959				\$ 410,365		\$ 1,531,324	
PROJECTED COST													\$ 1,622,924	
INSURANCE													\$ 48,688	
CONTINGENCY													\$ 81,146	
OVERHEAD AND PROFIT													\$ 243,439	
TAX													\$ -	
SUGGESTED BID													\$ 1,996,196	
Note:														
1. Please verify the equipment's and their prices with owner.														
2. Online sources are used for pricing.														
3. Prices can vary depending upon field conditions.														

PRICING SOURCES & ASSUMPTIONS

1. Pricing Basis & Date
Prices reflect Q3 2026 (July 2026) market levels for the Dallas-Fort Worth metro (Project location: Mansfield, TX). Values represent a specialty roofing subcontractor's direct material and installed-labor costs. Extended costs = (Unit Material × Qty-with-Wastage) + (Unit Manhours × Hourly Wage × Qty-with-Wastage), consistent with the workbook's existing formulas.
2. Primary Pricing Sources
• RSMeans 2026 Building Construction Cost Data (Gordian) — unit material costs and crew productivity/output, localized to the DFW City Cost Index. • Craftsman National Construction Estimator 2026 — labor manhour production rates. • Manufacturer & regional distributor list pricing, Q2–Q3 2026 — TPO membrane & adhesive, polyiso & tapered insulation, glass-mat cover board, prefinished edge metal/coping, roof drains, roof hatches. • Published 2026 market surveys — NRCA Cost-of-Roofing Survey 2026 and single-ply / standing-seam installed-cost data for cross-checking system S/SF. • Wage data — U.S. BLS and regional (DFW) wage surveys for Roofers and Sheet-Metal Workers, 2026.
3. Labor Basis
Fully-burdened blended crew wages: \$45.00/hr for general roofing trades (membrane, insulation, cover board, soffit, sealant) and \$55.00/hr for sheet-metal / architectural-metal trades (standing seam, coping, compression flashing, gutters, cleats, drains, hatches). Burden includes payroll taxes, workers' compensation (high roofing class rate), general liability, and standard fringe/benefits. A 5% wastage factor (per the takeoff) is applied to both material and labor via the Quantity-with-Wastage column.
4. Key Assumptions
• All quantities, wastage factors, formulas, formatting, and worksheet structure were provided in the takeoff and preserved unchanged; only Unit Material Cost, Unit Manhour, and Hourly Wage inputs were added. • Roof system = 60-mil fully-adhered white TPO over HD glass-mat gypsum cover board; R-7.5 polyiso base layer plus tapered polyiso for positive slope; R-13 batt at soffit/perimeter conditions. • Standing seam = 24-ga Galvalume/PVDF architectural panel. Coping, compression flashing, gutters, cleats, and starter = shop-formed prefinished 24-ga metal. • Roof/overflow drains priced as Zurn cast-iron drain assemblies; roofing scope includes setting and flashing the drain only. • Division 01 General Requirements carried as lump-sum allowances (see cell notes). • Insurance (3%), Contingency (5%), and Overhead & Profit (15%) applied per the workbook's existing markup structure. • Texas sales tax on incorporated materials is assumed included within the Unit Material Costs (lump-sum contract treatment); the separate Tax line is therefore left at 0%. Adjust if a separated contract applies.
5. Exclusions
• Structural roof deck, deck repair/replacement, and tear-off/removal & disposal of existing roofing. • Payment/performance bonds, permits, and impact/tap fees. • Below-deck plumbing tie-in of roof drains, mechanical, electrical, and lightning protection. • Rooftop equipment/curbs, solar, ballast/pavers, and vegetated-roof assemblies. • Overtime / night / weekend premiums, winter-condition costs, and price escalation beyond the pricing date. • Owner-furnished items and design/engineering of deferred submittals. • Per existing project notes, verify equipment items and drain models with the Owner prior to bid.
Estimate prepared: July 2026 Pricing date: Q3 2026 Basis: RSMeans/Gordian 2026, Craftsman 2026, 2026 supplier & NRCA survey data, DFW-localized. This is a Class 2 (bid/budget) estimate; verify field conditions and current quotes before contract award.

- Fiber Cement Board Soffit 529.8 SQ FT
- Soffit Vent 80.9 FT
- Step Wall Flashing 163.6 FT
- AD3.16/19 & 4 186.9 FT
- RS-4/ IS-7 2045.8 SQ FT
- Aluminum Gutter 126.7 FT
- Ad5.5/12 7.0 EA
- AD3.6/22 & AD5.4/03 351.2 FT
- AD3.6/23 & AD3.6/28 77.0 FT
- Standing Seam Metal Roof 184.9 SQ FT
- RS-2/IS-2 8502.7 SQ FT
- AD3.6-1/01 10.0 EA
- Tapered Insulation 1860.1 SQ FT

KEY PLAN - BUILDING #1



--- DENOTES MATCHLINE
--- DENOTES FIREWALL

BUILDING DESCRIPTION LEGEND

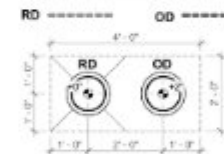
1A
AREA
BUILDING #

ROOF LEGEND

- 3/8" x 12" SLOPE DIRECTION OF ROOF DRAINAGE 3/8" PER FOOT UNLESS NOTED OTHERWISE
- INTERNAL DOWNSPOUT
- OVERFLOW DRAIN FOR PLAN
- CONDENSER - REF MECHANICAL REFER TO SPECS FOR CONDENSERS
- DESIGNATED RAISED PLATE
- DESIGNATED 2-HR FIRE WALL SEPARATION AREA - NO PENETRATIONS ALLOWED WITHIN 6" OF FIREWALL IN BOTH DIRECTIONS - FIRE RETARDANT ROOF SHEATING REQUIRED WITHIN 4" OF FIREWALL IN BOTH DIRECTIONS
- 2 HR FIRE WALL
- CANOPY TYPE I - STEEL FRAME WITH METAL ROOF DECK INSET - REFER TO SHEET A-07.2
- CANOPY TYPE II - WOOD FRAME WITH TPO ROOF - REFER TO SHEET A-05.8
- CANOPY TYPE III - STEEL FRAME WITH STANDING SEAM ROOF - REFER TO SHEET A-07.4A
- ELEVATOR SHAFT
- EXTERIOR WALL SECTION
- ROOF TRUSS PROFILE
- ROOF ACCESS LADDER HATCH
- 1/2" GYP SHEATHING DRAFTSTOP
- GREENHECK STATIC LOUVER - R50-K55
- DRY SPRINKLER AREA REFER TO ROOF TRUSS PROFILES
- DOWNSPOUT CONNECTION TO GUTTER

ROOF PLAN NOTES

ELEVATION OF ROOF MEMBRANE COMPARED TO THE ELEVATION OF INLET OF SECONDARY DRAIN. MINIMUM THICKNESS OF INSULATION TO BE 2" AT PRIMARY DRAIN (SEE SHEET A-05.4 FOR MORE INFO).



ROOF CALCULATIONS

BUILDING	AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (SQ. IN.)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @ 127 SQ. IN. EACH	# OF VENT LOUVERS 30X30 IN. @ 525 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @ 95 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (= TOTAL - HIGH VENT)	LINEAR FT. OF SOFFIT VENTS @ 15 SQ. IN. EACH	CROSS VENT SQ. IN. TOTAL	%	TOTAL ROOF VENTILATION PROVIDED
1A	A	5,748	3,393	3,488	14	0	0	3,728	49%	3,815	322	3,880	55%	5,888
	B	3,425	3,300	244	2	0	0	332	47%	725	48	725	54%	1,370
1B	C	2,025	3,354	775	7	0	0	889	49%	3,045	70	3,050	54%	1,399
	D	1,275	1,224	493	4	0	0	508	42%	716	48	720	59%	1,228
1C	E	311	299	120	1	0	0	127	42%	172	12	180	60%	307
	F	1,222	981	242	0	0	5	475	43%	756	38	570	58%	995
1D	G	923	595	253	0	0	5	475	43%	448	23	345	58%	690
	H	927	957	389	0	0	7	595	49%	629	42	630	55%	1,225
1E	I	927	957	389	0	0	5	475	44%	522	36	540	56%	965
	J	927	957	389	0	0	5	475	44%	522	36	540	56%	965

NOTES:

- PROVIDE FULL INSULATION BELOW FLAT ROOF AREAS - NO VENTING BELOW FLAT ROOF AREAS IF INSULATION PROVIDED
- GREENHECK STATIONARY LOUVER MODEL R50-K55
- 35 IN LOUVER PERFORMANCE

- IN CLIMATE ZONES 6, 7 AND 8, A CLASS I OR II VAPOR RETARDER IS INSTALLED ON THE WARM-WEATHER SIDE OF THE CEILING
- AT LEAST 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE. MEASURED VERTICALLY WITH THE BALANCE OF THE VENTILATION PROVIDED BY GABLE OR CORNER VENTS. WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.

01 ROOF PLAN - AREA "A.1"
SCALE: 1/8" = 1'-0"
BUILDING 1A

HLR ARCHITECTS

HENSLEY LAMKIN RACHEL, INC.

DALLAS • HOUSTON • SEATTLE

WWW.HLRINC.NET

PH: 512.726.0400

PRE CONSTRUCTION SETS

DATE	REVISION	ISSUED FOR
10/1/2020	1	PRELIMINARY
10/1/2020	2	WORKING PROCESS SET
10/1/2020	3	PROJECT SET

CONSTRUCTION SETS

DATE	REVISION	ISSUED FOR
10/1/2020	1	CONSTRUCTION

STILLWATER CAPITAL

BRUCE W. RACHEL, AIA
TX LICENSE NO. 14573

PRELIMINARY DRAWING

NOT FOR CONSTRUCTION
NOT FOR GOVERNMENT REVIEW

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Project Title:

URBAN LIVING PHASE II

SENIOR PROJECT MGR. CC

PROJECT MANAGER: JR

DRAWN BY: SC, JR

TEAM: CC, JC, JR

Project # 20305

Drawing No. A4.1-5A.1

BUILDING 1A - ROOF PLAN - AREA A.1



ROOF CALCULATIONS														
Bldg.	HIGH VENTILATION							CROSS VENTILATION					TOTAL ROOF VENTILATION PROVIDED	
AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (B1-139)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @127 SQ. IN. EACH	# OF VENT LOUVERS 30X30 IN. @529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @45 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (= TOTAL - HIGH PROV.)	UNFAIR FT. OF SLOTTED VENTS (@ 15 SQ. IN. EACH)	CROSS VENT SQ. IN. TOTAL	%		
1A	A	5,743	5,955	14	0	0	1776	40%	5815	117	1838	51%	5,668	
	B	1,416	1,260	544	5	0	0	635	47%	725	40	735	54%	1,316
Bldg.	HIGH VENTILATION							CROSS VENTILATION					TOTAL ROOF VENTILATION PROVIDED	
AREA NAME	SQ. YRS. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (B1-139)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @127 SQ. IN. EACH	# OF VENT LOUVERS 30X30 IN. @529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @45 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (= TOTAL - HIGH PROV.)	UNFAIR FT. OF SLOTTED VENTS (@ 15 SQ. IN. EACH)	CROSS VENT SQ. IN. TOTAL	%		
1B	C	2,815	1,898	774	7	0	0	889	46%	3845	70	1658	58%	1,928
Bldg.	HIGH VENTILATION							CROSS VENTILATION					TOTAL ROOF VENTILATION PROVIDED	
AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (B1-139)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @127 SQ. IN. EACH	# OF VENT LOUVERS 30X30 IN. @529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @45 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (= TOTAL - HIGH PROV.)	UNFAIR FT. OF SLOTTED VENTS (@ 15 SQ. IN. EACH)	CROSS VENT SQ. IN. TOTAL	%		
1C	D	1,775	1,228	480	4	0	0	568	42%	716	69	720	59%	1,328
	E	311	259	110	5	0	0	127	42%	172	12	580	93%	307
Bldg.	HIGH VENTILATION							CROSS VENTILATION					TOTAL ROOF VENTILATION PROVIDED	
AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (B1-139)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @127 SQ. IN. EACH	# OF VENT LOUVERS 30X30 IN. @529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @45 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (= TOTAL - HIGH PROV.)	UNFAIR FT. OF SLOTTED VENTS (@ 15 SQ. IN. EACH)	CROSS VENT SQ. IN. TOTAL	%		
1D	F	5,822	561	393	0	0	5	425	43%	566	38	570	58%	995
	G	825	558	240	0	0	3	255	43%	343	21	345	58%	600
Bldg.	HIGH VENTILATION							CROSS VENTILATION					TOTAL ROOF VENTILATION PROVIDED	
AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (B1-139)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @127 SQ. IN. EACH	# OF VENT LOUVERS 30X30 IN. @529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @45 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (= TOTAL - HIGH PROV.)	UNFAIR FT. OF SLOTTED VENTS (@ 15 SQ. IN. EACH)	CROSS VENT SQ. IN. TOTAL	%		
1E	H	1,775	1,228	490	0	0	7	565	49%	819	40	880	51%	1,229
	I	897	957	383	0	0	5	425	44%	532	20	540	54%	864

NOTES:

1. PROVIDE FULL INSULATION BELOW PLAT ROOF ASSEMBLY - NO VENTING THROUGH PLAT ROOFS IF INSULATION PROVIDED
2. MINIMUM VENTILATION REQUIREMENTS: 100 CFM/1000 BHP
3. MEET LOWEST PERFORMANCE

IN CLIMATE ZONES 3 & 4, A CLASS 1000000-PAV RETARDER INSTALLED ON THE WARM-UP/STEEL SIDE OF THE CEILING

AT LEAST 40 PERCENT AND NOT MORE THAN 90 PERCENT OF THE REQUIRED VENTING AREA IS PROVIDED BY VENTILATORS. LOCATED AT THE LOWER PORTION OF THE JACKET ON RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET (0.9M) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED WITHIN THE SPACE. VENTILATORS SHALL BE LOCATED TO NOT SAVE OR CORRUPT VENT, WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS. INSTALLATION MUST BE 1/4 IN (6.35 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PROVIDED

- Fiber Cement Board Soffit
- Soffit Vent
- Hip Flashing
- Step Wall Flashing
- AD3.16/19 & 4
- RS-4/IS-7
- Bar Grating Mat (Assumed) Detail Not Mention
- Aluminum Gutter
- Ad5.5/12
- AD3.6/22 & AD5.4/03
- AD3.6/23 & AD3.6/28
- Standing Seam Metal Roof
- RS-2/IS-2
- AD3.6-1/01
- Tapered Insulation

634.6 SQ FT	1B
48.0 FT	1A
28.3 FT	
115.4 FT	
124.3 FT	
1282.1 SQ FT	
323.1 SQ FT	
41.4 FT	
5.0 EA	
405.1 FT	
109.8 FT	
291.0 SQ FT	
8456.8 SQ FT	
10.0 EA	
1570.1 SQ FT	

TION LEGEND

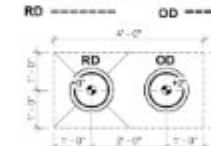
1A
AREA
BUILDING #

ROOF LEGEND

- 3/8" 12" SLOPE DIRECTION OF ROOF DRAINAGE 3/8" PER FOOT UNLESS NOTED OTHERWISE.
- INTERNAL DOWNSPOUT
- OVERFLOW DRAIN PER PLAN
- CONDENSER - REF. MECHANICAL REFER TO SPEC'S FOR CONDENSERS
- DESIGNATES RAISED PLATE
- DESIGNATES 2 HR FIRE WALL SEPARATION AREA - NO PENETRATIONS ALLOWED WITHIN 4" OF FIREWALL IN BOTH DIRECTIONS - FIRE RESISTANT ROOF SHEATHING REQUIRED WITHIN 4" OF FIREWALL IN BOTH DIRECTIONS
- 2 HR FIRE WALL
- CANOPY TYPE 1 - STEEL FRAME WITH METAL ROOF DECK INSET - REFER TO SHEET A-01.2
- CANOPY TYPE 3 - WOOD FRAME WITH TPO ROOF - REFER TO SHEET A-03.4
- CANOPY TYPE 8 - STEEL FRAME WITH STANDING SEAM ROOF - REFER TO SHEET A-01.4A
- ELEVATOR SHAFT
- EXTERIOR WALL SECTION
- ROOF TRUSS PROFILE
- ROOF ACCESS LADDER HATCH
- 1/2" GYP. SHEATHING DRAFTSTOP
- GREENHECK STATIC LOUVER - ESD 400
- DRY SPRINKLER AREA REFER TO ROOF TRUSS PROFILES
- DOWNSPOUT CONNECTION TO GUTTER

ROOF PLAN NOTES

ELEVATION OF ROOF MEMBRANE COMPARED TO THE ELEVATION OF INLET OF SECONDARY DRAIN. MINIMUM THICKNESS OF INSULATION TO BE 2" AT PRIMARY DRAIN (SEE SHEET A-03.4.1 FOR MORE INFO)

POOL
COURTARD
BELOW

1B

1D

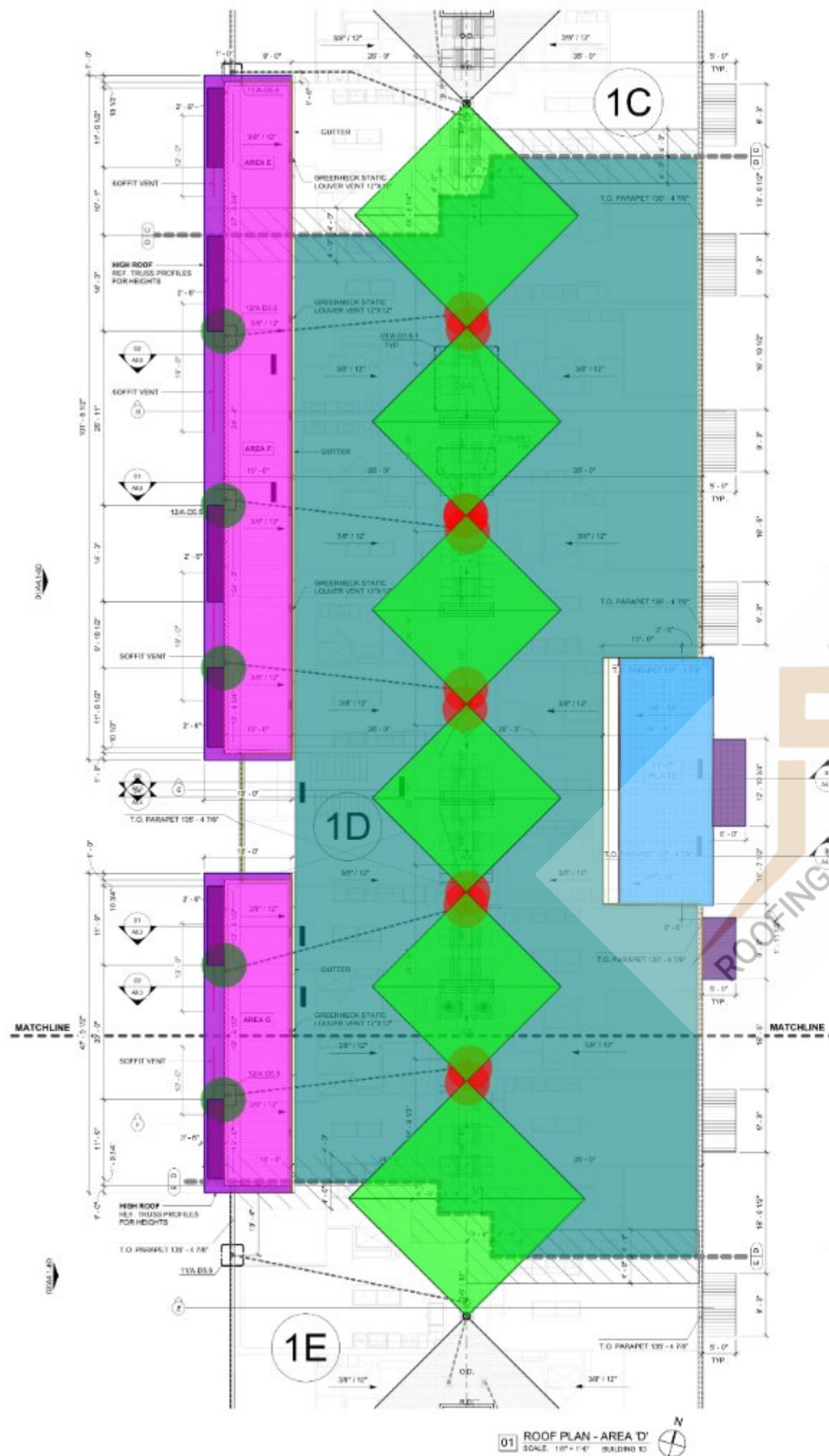
01 ROOF PLAN - AREA 'C'
SCALE: 1/8" = 1'-0" BUILDING 1C

NOTES

- 1. PROVIDE FULL INSULATION BELOW FLAT ROOF AREAS. NO VENTING BEHIND FLAT ROOF. IF INSULATION PROVIDED, GREENHECK STATIONARY LOUVER MODEL ESD-400 WITH LOUVER PERFORMANCE.
- 2. IN CLIMATE ZONES 4, 7 AND 8, A CLASS I OR II VAPOR RETARDER IS INSTALLED ON THE WARMER INTERIOR SIDE OF THE CEILING.
- 3. AT LEAST 40 PERCENT AND NOT MORE THAN 60 PERCENT OF THE REQUIRED VENTING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE. MEASURED VERTICALLY, WITH THE BALANCE OF THE VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THAN 5 FEET (1524 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.

ROOF CALCULATIONS

BUILDING	AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (SF) (1)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT. LOUVERS 12x15 IN. @ 127 SQ. IN. EACH	# OF VENT. LOUVERS 30x30 IN. @ 529 SQ. IN. EACH	# OF VENT. LOUVERS 12x12 IN. @ 85 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (H-TOTAL - HIGH PROV.)	UNLAK FT. OF SOFFIT VENTS @ 15 SQ. IN. EACH	CROSS VENT SQ. IN. TOTAL	%	TOTAL ROOF VENTILATION PROVIDED
1A	A	3,140	1,592	1,438	14	0	0	1778	49%	2825	122	2825	91%	3,408
	B	1,416	1,360	144	1	0	0	633	47%	225	49	225	54%	3,378
1B	C	2,015	1,034	774	7	0	0	880	46%	5045	30	1058	54%	1,938
	D	1,275	1,224	498	4	0	0	508	42%	716	48	720	59%	1,228
1C	E	613	289	118	1	0	0	127	42%	172	12	180	40%	887
	F	1,072	581	353	3	0	3	425	48%	596	39	520	58%	895
1D	G	613	558	248	0	0	3	255	43%	343	23	340	59%	608
	H	991	551	383	0	0	5	425	44%	567	36	540	54%	985



- Fiber Cement Board Soffit
- Soffit Vent
- Step Wall Flashing
- AD3.16/19 & 4
- RS-4/IS-7
- Bar Grating Mat (Assumed) Detail Not Mention
- Aluminum Gutter
- Ad5.5/12
- AD3.6/22 & AD5.4/03
- AD3.6/23 & AD3.6/28
- Standing Seam Metal Roof
- RS-2/IS-2
- AD3.6-1/01
- Tapered Insulation

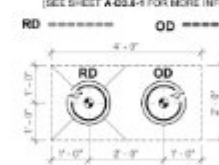
760.5 SQ FT	72.8 FT
282.1 FT	239.8 FT
2449.6 SQ FT	512.8 SQ FT
184.6 FT	5.0 EA
357.1 FT	146.1 FT
289.8 SQ FT	8677.8 SQ FT
11.0 EA	2736.3 SQ FT

ROOF LEGEND

- ▲ 30/12 SLOPE DIRECTION OF ROOF DRAINAGE 30° PER FOOT UNLESS NOTED OTHERWISE.
- INTERNAL DOWNSPOUT
- OVERFLOW DRAIN PER PLAN
- CONDENSER - REF. MECHANICAL REFER TO SPECS FOR CONDENSERS
- DESIGNATES RAISED PLATE
- ORIGINATES 2-HR. FIRE WALL SEPARATION AREA - NO PENETRATIONS ALLOWED WITHIN 5'-0" OF FIREWALL IN BOTH DIRECTIONS - FIRE RETARDANT ROOF SHEETING REQUIRED WITHIN 4'-0" OF FIREWALL IN BOTH DIRECTIONS
- 2 HR. FIRE WALL
- CANOPY TYPE I - STEEL FRAME WITH METAL ROOF DECK INSET - REFER TO SHEET A-D2.2
- CANOPY TYPE II - WOOD FRAME WITH TPO ROOF - REFER TO SHEET A-D3.2
- CANOPY TYPE III - STEEL FRAME WITH STANDING SEAM ROOF - REFER TO SHEET A-D7.4A
- ELEVATOR SHAFT
- EXTERIOR WALL SECTION
- ROOF TRUSS PROFILE
- ROOF ACCESS LADDER HATCH
- 12" GYP. SHEETING DRAFTSTOP
- GREENHECK STATIC LOUVER - ESD-635
- DRY SPRINKLER AREA REFER TO ROOF TRUSS PROFILES
- DOWNSPOUT CONNECTION TO OUTLET

ROOF PLAN NOTES

ELEVATION OF ROOF MEMBRANE COMPARED TO THE ELEVATION OF INLET OF SECONDARY DRAIN. MINIMUM THICKNESS OF INSULATION TO BE 2" AT PRIMARY DRAIN. (SEE SHEET A-D3.4 FOR MORE INFO.)



ROOF CALCULATIONS

BUILDING	AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (SQ. IN.)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @ 127 SQ. IN. EACH	# OF VENT LOUVERS 30X30 IN. @ 529 SQ. IN. EACH	# OF VENT LOUVERS 12X32 IN. @ 985 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (= TOTAL - HIGH VENT)	LINEAR FT. OF SOFFIT VENTS @ 15 SQ. IN. EACH	CROSS VENT SQ. IN. TOTAL	%	TOTAL ROOF VENTILATION PROVIDED
1A	A	5,743	3,505	3,438	24	0	0	1,778	49%	1,815	122	1,850	51%	3,688
	B	3,414	1,260	548	5	0	0	425	49%	735	48	785	54%	3,278
1B	C	2,015	1,988	776	7	0	0	889	44%	1,045	70	1,115	54%	3,499
	D	3,375	1,225	893	0	0	0	508	49%	710	48	758	58%	3,228
	E	331	299	127	1	0	0	127	42%	272	12	284	65%	397
1D	F	3,032	881	899	0	0	0	425	48%	556	38	570	58%	895
	G	523	595	243	0	0	0	255	43%	343	23	360	58%	603
1E	H	3,375	1,225	899	0	0	0	425	48%	556	38	570	58%	895
	I	307	357	383	0	0	0	425	48%	522	35	540	56%	865

NOTES:

- 1. PROVIDE FULL INSULATION BELOW FLAT ROOF AREAS - NO VENTING BENEATH FLAT ROOFS IF INSULATION PROVIDED.
- 2. GREENHECK STATIONARY LOUVER MODEL ESD-635 68 IN. LOUVER PERFORMANCE

- 1. IN CLIMATE ZONES 6, 7 AND 8, A CLASS I OR I VAPOR RETARDER IS INSTALLED ON THE WARM-UP WINTER SIDE OF THE CEILING.
- 2. AT LEAST 48 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY, WITH THE BALANCE OF THE VENTILATION PROVIDED BY EAVE OR CORNICE VENTS, WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS. INSTALLATION MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.

DATE	REVISION	ISSUED FOR
10/1/2020	1	PRELIMINARY
10/1/2020	2	WORKING PROGRESS SET
10/1/2020	3	PROJECT SET

CONSTRUCTION SETS

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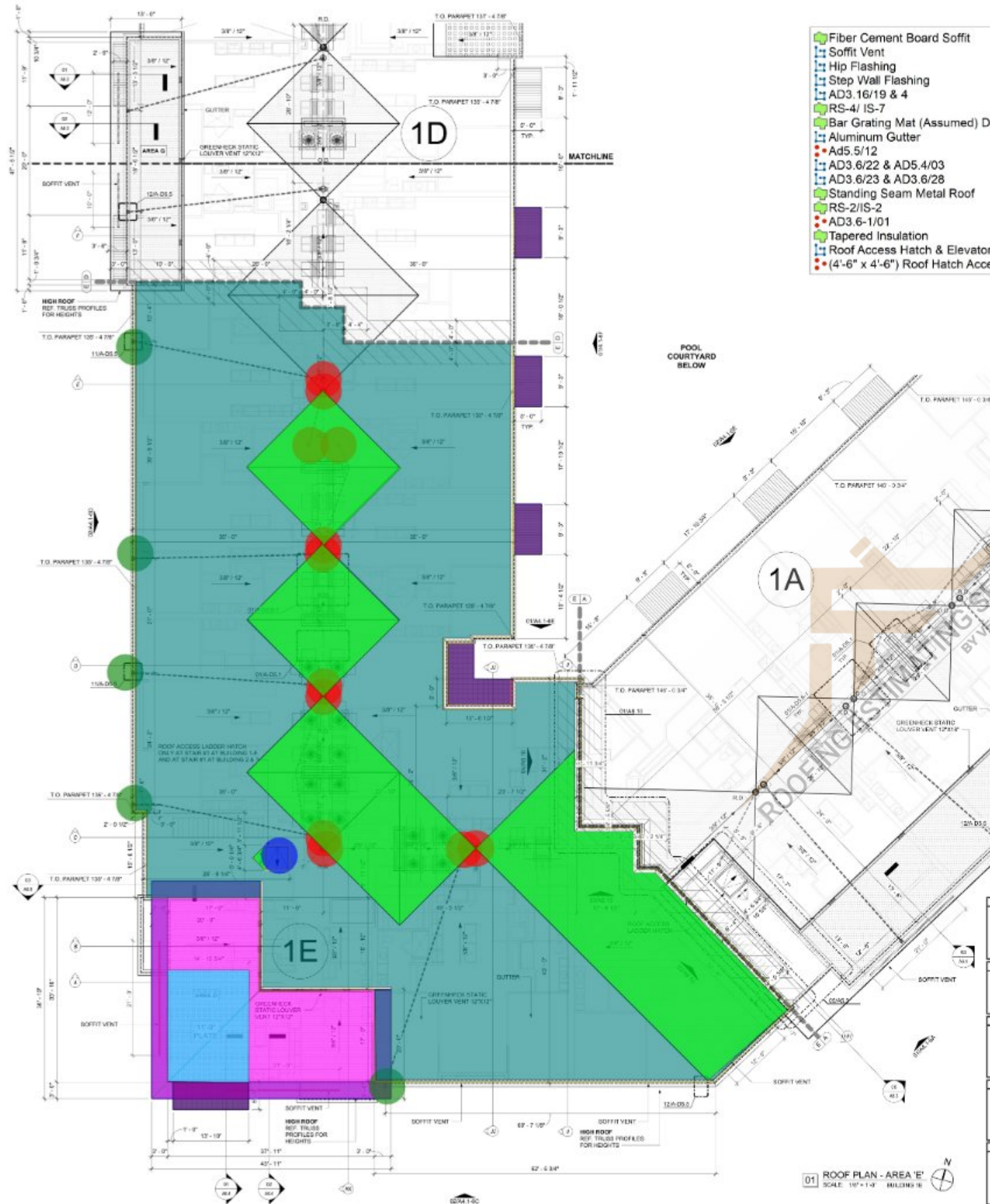
DATE	REVISION	ISSUED FOR
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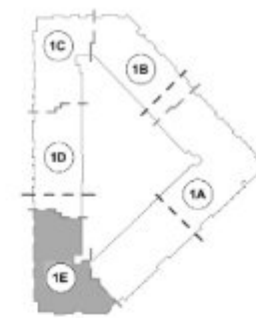
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10/1/2020	1	CONSTRUCTION SET



- Fiber Cement Board Soffit 641.7 SQ FT
- Soffit Vent 42.1 FT
- Hip Flashing 27.9 FT
- Step Wall Flashing 98.2 FT
- AD3.16/19 & 4 129.7 FT
- RS-4/ IS-7 1273.3 SQ FT
- Bar Grating Mat (Assumed) Detail Not Mention 305.6 SQ FT
- Aluminum Gutter 38.3 FT
- Ad5.5/12 5.0 EA
- AD3.6/22 & AD5.4/03 472.1 FT
- AD3.6/23 & AD3.6/28 95.6 FT
- Standing Seam Metal Roof 295.6 SQ FT
- RS-2/IS-2 10372.1 SQ FT
- AD3.6-1/01 12.0 EA
- Tapered Insulation 2774.2 SQ FT
- Roof Access Hatch & Elevator Shaft 18.2 FT
- (4'-6" x 4'-6") Roof Hatch Access w/ Ladder 1.0 EA

KEY PLAN - BUILDING #1

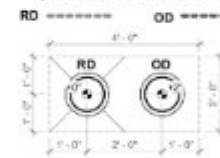


BUILDING DESCRIPTION LEGEND

- 1A AREA BUILDING #**
- ROOF LEGEND**
- 3/8" SLOPE DIRECTION OF ROOF DRAINAGE 3/8" PER FOOT UNLESS NOTED OTHERWISE
 - INTERNAL DOWNSPOUT
 - OVERFLOW DRAIN PER PLAN
 - CONDENSER - REF. MECHANICAL REFER TO SPEC FOR CONDENSERS
 - DESIGNATED RAISED PLATE
 - DESIGNATED 2-HR. FIRE WALL SEPARATION AREA - NO PENETRATIONS ALLOWED WITHIN 2'-0" OF FIREWALL IN BOTH DIRECTIONS - FIRE RETARDANT ROOF SHEATING REQUIRED WITHIN 4'-0" OF FIREWALL IN BOTH DIRECTIONS
 - 2 HR. FIRE WALL
 - CANOPY TYPE I - STEEL FRAME WITH METAL ROOF DECK INSET - REFER TO SHEET A-07.2
 - CANOPY TYPE II - WOOD FRAME WITH TPO ROOF - REFER TO SHEET A-03.8
 - CANOPY TYPE III - STEEL FRAME WITH STANDING SEAM ROOF - REFER TO SHEET A-07.4A
 - ELEVATOR SHAFT
 - 3/8" SLOPE DIRECTION OF ROOF DRAINAGE 3/8" PER FOOT UNLESS NOTED OTHERWISE
 - ROOF TRUSS PROFILE
 - ROOF ACCESS LADDER HATCH
 - 12" DWP SHEETING DRAFTSTOP
 - GREENHECK STATIONARY LOUVER - #12045
 - DRY SPRINKLER AREA REFER TO ROOF TRUSS PRINT FILE
 - DOWNSPOUT CONNECTION TO GUTTER

ROOF PLAN NOTES

ELEVATION OF ROOF MEMBRANE COMPARED TO THE ELEVATION OF BASE OF SECONDARY DRAIN. MINIMUM THICKNESS OF INSULATION TO BE 2" AT PRIMARY DRAIN (SEE SHEET A-03.8 FOR MORE INFO)



ROOF CALCULATIONS

BUILDING	AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (SQ. IN.)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @ 127 SQ. IN. EACH	# OF VENT LOUVERS 36X30 IN. @ 529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @ 895 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (+ TOTAL - HIGH PROV.)	LINEAR FT. OF SOFFIT VENTS @ 15 SQ. IN. EACH	CROSS VENT SQ. IN. TOTAL	%	TOTAL ROOF VENTILATION PROVIDED
1A	A	3,758	3,580	3,418	14	0	0	3,278	69%	1,813	122	1,880	51%	5,008
	B	3,415	3,368	3,44	5	0	0	525	67%	725	49	725	54%	3,375
1B	C	2,315	3,634	774	7	0	0	883	44%	1,045	70	1,050	54%	3,988
1C	D	1,275	3,324	490	4	0	0	536	42%	716	48	720	56%	3,228
	E	511	759	120	0	0	0	127	42%	172	12	180	60%	307
1D	F	1,223	981	353	0	0	5	475	43%	556	38	570	58%	895
	G	623	588	240	0	0	5	755	63%	363	25	345	58%	600
1E	H	1,275	3,324	490	0	0	7	585	46%	620	42	630	51%	3,228
	I	550	557	353	0	0	5	475	44%	522	35	540	56%	865

NOTES:

- PROVIDE FULL INSULATION BELOW ROOF AREAS - NO VENTING BENEATH FLAT ROOFS IF INSULATION PROVIDED
- GREENHECK STATIONARY LOUVER MODEL: ESD-030 \$5.95 LOUVER PERFORMANCE
- IN CLIMATE ZONES 6, 7 AND 8, A CLASS I OR II VAPOR RETARDER IS INSTALLED ON THE WARM IN WINTER SIDE OF THE CEILING
- AT LEAST 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY. WITH THE BALANCE OF THE VENTILATION PROVIDED BY SIPS OR CORNER VENTS. WHERE THE LOCATION OF RAIL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.

HLR ARCHITECTS

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PRE CONSTRUCTION SETS

DATE	REVISION	ISSUED FOR
10/1/2020	1	PRELIMINARY
10/1/2020	2	WORKING PROCESS SET
10/1/2020	3	PROJECT SET

CONSTRUCTION SETS

DATE	REVISION	ISSUED FOR
10/1/2020	1	CONSTRUCTION

STILLWATER CAPITAL

BRUCE W. RACHEL, AIA
TX LICENSE NO. 14573
PRELIMINARY DRAWING
NOT FOR CONSTRUCTION
NOT FOR GOVERNMENT REVIEW

Project Title: **URBAN LIVING PHASE II**

SENIOR PROJECT MGR. CC
PROJECT MANAGER: JR
DRAWN BY: SC, JR
TEAM: CC, JC, JR
Project #: **20305**
Drawing No: **A4.1-5E**
BUILDING 1E - ROOF PLAN - AREA 1E

ROOF CALCULATIONS

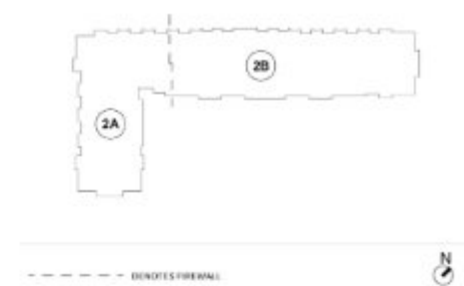
BLDG.	HIGH VENTILATION								CROSS VENTILATION				TOTAL ROOF VENTILATION PROVIDED	
AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (@1:150)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @127 SQ. IN. EACH	# OF VENT LOUVERS 36X30 IN. @529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @85 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (+ TOTAL - HIGH PROV.)	LINEAR FT. OF SOFFIT VENTS @ 15 SQ. IN. EACH	CROSS VENT SQ. IN. TOTAL	%		
2A & 3A														
	A	2,803	2,691	1,077	0	0	0	1270	47%	1421	95	1425	53%	2,695
	B	1,444	1,386	555	5	0	0	625	46%	751	51	635	55%	1,400
BLDG.	HIGH VENTILATION								CROSS VENTILATION				TOTAL ROOF VENTILATION PROVIDED	
AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (@1:150)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @127 SQ. IN. EACH	# OF VENT LOUVERS 36X30 IN. @529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @85 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (+ TOTAL - HIGH PROV.)	LINEAR FT. OF SOFFIT VENTS @ 15 SQ. IN. EACH	CROSS VENT SQ. IN. TOTAL	%		
2B & 3B														
	A	2,803	2,691	1,077	0	0	0	1270	47%	1421	95	1425	53%	2,695
	C	1426	1369	548	5	0	0	655	46%	754	49	750	54%	1370

NOTES:
 1. IN CLIMATE ZONES 6, 7 AND 8, A CLASS I OR II VAPOR RETARDER IS INSTALLED ON THE WARM-INTERIOR SIDE OF THE CEILING.
 2. AT LEAST 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY, WITH THE BALANCE OF THE VENTILATION PROVIDED BY EAVE OR CORNER VENTS. WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.

ROOF LEGEND



KEY PLAN - BUILDING 2



- Fiber Cement Board Soffit
- Soffit Vent
- Hip Flashing
- Step Wall Flashing
- AD3.16/19 & 4
- RS-4/ IS-7
- Bar Grating Mat (Assumed) Detail Not Mention
- Aluminum Gutter
- Ad5.5/12
- AD3.6/22 & AD5.4/03
- AD3.6/23 & AD3.6/28
- Standing Seam Metal Roof
- RS-2/IS-2
- AD3.6-1/01
- Tapered Insulation

1732.4 SQ FT

139.1 FT

68.0 FT

285.7 FT

347.2 FT

4400.6 SQ FT

613.6 SQ FT

166.4 FT

9.0 EA

610.1 FT

219.1 FT

601.8 SQ FT

15568.0 SQ FT

18.0 EA

3890.4 SQ FT

DESCRIPTION LEGEND

AREA

BUILDING #

PLAN NOTES

BUILDING TO BE PROVIDED WITH A COMPLETE SPRINKLER SYSTEM ACCORDANCE WITH NFPA 13R EXCEPT BUILDING 1A TO BE NFPA SPRINKLER CONTRACTOR TO SUBMIT SHOP DRAWINGS, LOCATIONS AND SPECS TO THE MANFRED FIRE MARSHALL'S OFFICE AND TARRANT COUNTY FOR PERMITTING AND REVIEWING. WORKS INCLUDING A SITE PLAN SHOWING THE FIRE PARTNERSHIP CONNECTION FOR EACH BUILDING, ROADSIDEWAYS, LONES & CORRIDORS ARE TO BE SPRINKLED.

ABLE EMERGENCY ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15DBA ABOVE THE UNCE AMBIENT SOUND LEVEL OR 5DBA ABOVE THE MINIM SOUND LEVEL HAVING A DURATION OF NOT LESS THAN 30 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPABLE SPACE WITHIN THE BUILDING.

BUILDINGS TO BE PROVIDED WITH EMERGENCY (HUNG) BATTERY PAKES IN ACCORDANCE WITH NFPA 101.

PER TO STRUCTURAL DRAWINGS FOR SHEARWALL, COLUMNS, TYPES AND ANCHORAGE REQUIREMENTS.

ALL TYPE PLANS SHOW FINISHES. FOR MATERIALS AND (LORD, REF ALSO TO ELEVATIONS).

IF FIRE EXTINGUISHER CABINET (FEC) AND STAND PIPE LOCATIONS, REFER TO APS D.

LOMS ARE FROM STUD TO STUD - SOME BROCK LEDGE DMS 2 SHOWS.



01 ROOF PLAN - AREA 'B' BUILDING 2B

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CONSTRUCTION SETS

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10/1/2020	1	CONSTRUCTION SET

BRUCE W. RACHEL, AIA

TX LICENSE NO. 14573

PRELIMINARY DRAWING

NOT FOR CONSTRUCTION

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Project Title:

URBAN LIVING PHASE II

SENIOR PROJECT MGR. CC

PROJECT MANAGER. JR

DRAWN BY. CC, JR

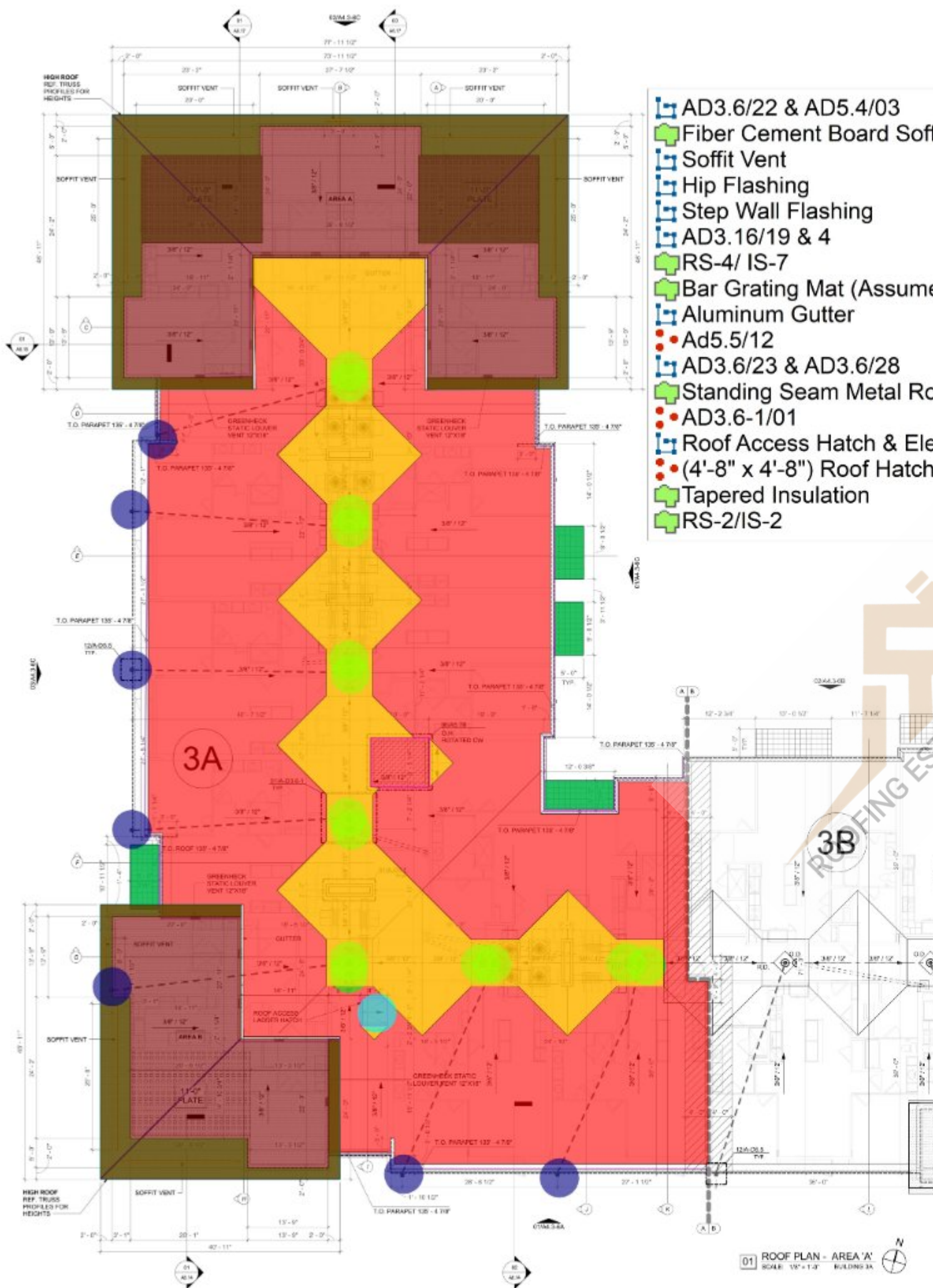
TEAM. CC, JR, JR

Project #. 20305

Drawing No.

A4.2-4B

BUILDING 2B - ROOF PLAN - AREA B



ROOF CALCULATIONS													
BLDG.	AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (SF:150)	HIGH VENTILATION				CROSS VENTILATION				TOTAL ROOF VENTILATION PROVIDED	
				MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @ 127 SQ. IN. EACH	# OF VENT LOUVERS 36X30 IN. @ 529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @ 85 SQ. IN. EACH	CROSS VENT REQUIRED SQ. IN. TOTAL (- TOTAL - HIGH PROV.)	LINEAR FT. OF SOFFIT VENTS @ 15 SQ. IN. EACH	CROSS VENT SQ. IN. TOTAL	%		
2A & 3A	A	2,833	2,691	1,077	10	0	0	1270	47%	1421	53%	2,691	
	B	3,444	3,386	555	5	0	0	635	46%	751	53%	3,386	
2B & 3B	A	2,833	2,691	1,077	10	0	0	1270	47%	1421	53%	2,691	
	B	3,426	3,386	548	5	0	0	635	46%	751	50%	3,386	

NOTES:

- PROVIDE FULL INSULATION BELOW FLAT ROOF AREAS - NO VENTING BENEATH FLAT ROOFS IF INSULATION PROVIDED.
- GREENHECK STATIONARY LOUVER MODEL ES0-435.
- NO LOUVER PERFORMANCE.
- IN CLIMATE ZONES 6, 7 AND 8, A CLASS I OR I VAPOR RETARDER IS INSTALLED ON THE WARM IN-WINTER SIDE OF THE CEILING.
- AT LEAST 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY, WITH THE BALANCE OF THE VENTILATION PROVIDED BY EAVE OR CORNER VENTS. WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.

KEY PLAN - BUILDING #2&3



BUILDING DESCRIPTION LEGEND

3A
AREA
BUILDING #

ROOF LEGEND

- 3/8" x 12" SLOPE DIRECTION OF ROOF DRAINAGE 3/8" PER FOOT UNLESS NOTED OTHERWISE.
- INTERNAL DOWNSPOUT
- OVERFLOW DRAIN PER PLAN
- CONDENSER - REF. MECHANICAL REFER TO SPECS FOR CONDENSERS
- DESIGNATES RASSED PLATE
- DESIGNATES 2-HR. FIRE WALL SEPARATION AREA - NO PENETRATIONS ALLOWED WITHIN 6" OF FIREWALL IN BOTH DIRECTIONS - FIRE RETARDANT ROOF SHEATING REQUIRED WITHIN 4" OF FIREWALL IN BOTH DIRECTIONS
- 2-HR. FIRE WALL
- CANOPY TYPE 1 - STEEL FRAME WITH METAL ROOF DECK INSET - REFER TO SHEET A-07.2
- CANOPY TYPE 2 - WOOD FRAME WITH EPD ROOF - REFER TO SHEET A-03.1
- CANOPY TYPE 3 - STEEL FRAME WITH STANDING SEAM ROOF - REFER TO SHEET A-07.4A
- ELEVATOR SHAFT
- EXTERIOR WALL SECTION
- ROOF TRUSS PROFILE
- ROOF ACCESS LADDER HATCH
- 12" GYP. SHEATING DRAFTSTOP
- GREENHECK STATIONARY LOUVER - ES0-435
- DRY SPRINKLER AREA, REFER TO ROOF TRUSS PROFILES
- DOWNSPOUT CONNECTION TO GUTTER

ROOF PLAN NOTES

- BUILDING TO BE PROVIDED WITH A COMPLETE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 OR EXCEPT BUILDING 3A TO BE NFPA 13 SPRINKLER SYSTEM TO BE INSTALLED BY THE CONTRACTOR. CALCULATIONS AND SPECS TO THE MANSFIELD FIRE MARSHALL'S OFFICE AND TARRANT COUNTY FOR PERMITTING AND REVIEWING PURPOSES INCLUDING A RITE PLAN SHOWING THE FIRE DEPARTMENT CONNECTION FOR EACH BUILDING (BUZZERWAYS, BALCONIES & CORRIDORS ARE TO BE SPRINKLED).
- AUDIBLE EMERGENCY ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PROOFED LEVEL OF 100 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF NOT LESS THAN 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPANCY SPACE, WITHIN THE BUILDING.
- ALL BUILDINGS TO BE PROVIDED WITH EMERGENCY LIGHTING BATTERY PAKS IN ACCORDANCE WITH NFPA 101.
- REFER TO STRUCTURAL DRAWINGS FOR SHEARWALL LOCATIONS, TYPES AND ANCHORAGE REQUIREMENTS.
- WALL TYPE/FLAG SHOW FINISHES, FOR MATCHUP AND COLORS, REF ALSO TO ELEVATIONS.
- FOR FIRE EXTINGUISHER CABINET (FEC) AND STAND PIPE (SPI) LOCATIONS, REF TO NFPA 101.
- ALL DIMS ARE FROM STUD TO STUD - SOME BRICK LEO DE DIMS ARE SHOWN.

HLR ARCHITECTS

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ROOF CALCULATIONS

BLDG.	HIGH VENTILATION							CROSS VENTILATION				TOTAL ROOF VENTILATION PROVIDED		
AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (SQ. IN.)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @127 SQ. IN. EACH	# OF VENT LOUVERS 30X30 IN. @529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @85 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (+ TOTAL - HIGH PROV.)	LINEAR FT. OF SOFFIT VENTS @ 15 SQ. IN. EACH	CROSS VENT SQ. IN. TOTAL		%	
2A & 3A	A	2,803	2,691	1,077	10	0	0	1,270	47%	1421	95	1425	53%	2,695
	B	1,444	1,386	555	5	0	0	635	46%	751	51	835	55%	1,400
BLDG.	HIGH VENTILATION							CROSS VENTILATION				TOTAL ROOF VENTILATION PROVIDED		
AREA NAME	SQ. FT. ROOF AREA	MINIMUM REQUIRED VENTILATION AREA (SQ. IN.)	MIN. REQ'D HIGH VENT AREA (SQ. IN.)	# OF VENT LOUVERS 12X18 IN. @127 SQ. IN. EACH	# OF VENT LOUVERS 30X30 IN. @529 SQ. IN. EACH	# OF VENT LOUVERS 12X12 IN. @85 SQ. IN. EACH	HIGH VENT SQ. IN. TOTAL	%	CROSS VENT REQUIRED SQ. IN. TOTAL (+ TOTAL - HIGH PROV.)	LINEAR FT. OF SOFFIT VENTS @ 15 SQ. IN. EACH	CROSS VENT SQ. IN. TOTAL		%	
2B & 3B	A	2,803	2,691	1,077	10	0	0	1,270	47%	1421	95	1425	53%	2,695
	B	1,426	1,389	548	5	0	0	635	46%	734	49	735.00	54%	1378
	C													

NOTES:

- PROVIDE FULL INSULATION BELOW FLAT ROOF AREAS - NO VENTING BENEATH FLAT ROOFS IF INSULATION PROVIDED
- GREENHECK STATIONARY LOUVER MODEL E50-036 58.0% LOUVER PERFORMANCE

- IN CLIMATE ZONES 6, 7 AND 8, A CLASS I OR II VAPOR RETAINER IS INSTALLED ON THE WARMER-WINTER SIDE OF THE CEILING.
- AT LEAST 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY, WITH THE BALANCE OF THE VENTILATION PROVIDED BY GABLE OR DORMER VENTS. WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THAN 5 FEET (1514 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.

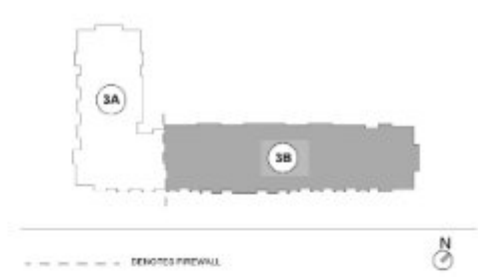
ROOF LEGEND

- 3/8:12 SLOPE DIRECTION OF ROOF DRAINAGE 3/8" PER FOOT UNLESS NOTED OTHERWISE
- INTERNAL DOWNSPOUT
- OVERFLOW DRAIN PER PLAN
- CONDENSER - REF. MECHANICAL REFER TO SPEC FOR CONDENSERS
- DESIGNATED HATCH PLATE

- DESIGNATES 2-HR FIRE WALL SEPARATION AREA - NO PENETRATIONS ALLOWED WITHIN 9" OF FIREWALL IN BOTH DIRECTIONS - FIRE RETARDANT ROOF OF SHEATING REQUIRED WITHIN 4" OF FIREWALL IN BOTH DIRECTIONS
- 2-HR FIRE WALL (NO PENETRATIONS ALLOWED)
- DORMER TYPE I - STEEL FRAME WITH METAL ROOF DECK INSET - REFER TO SHEET A-07-2
- DORMER TYPE II - WOOD FRAME WITH TPO ROOF - REFER TO SHEET A-03-5
- DORMER TYPE III - STEEL FRAME WITH STANDING SEAM ROOF - REFER TO SHEET A-07-4A
- GREENHECK STATIC LOUVER - E50-036

- ELEVATOR SHAFT ROOF POP UP
- EXTERIOR WALL SECTION
- ROOF TRUSS PROFILE
- ROOF ACCESS LADDER HATCH
- 12" OVP. SHEATING DRAFTSTOP
- DRY SPRINKLER AREA - REFER TO ROOF TRUSS PROFILES

KEY PLAN - BUILDING #2&3



BUILDING DESCRIPTION LEGEND

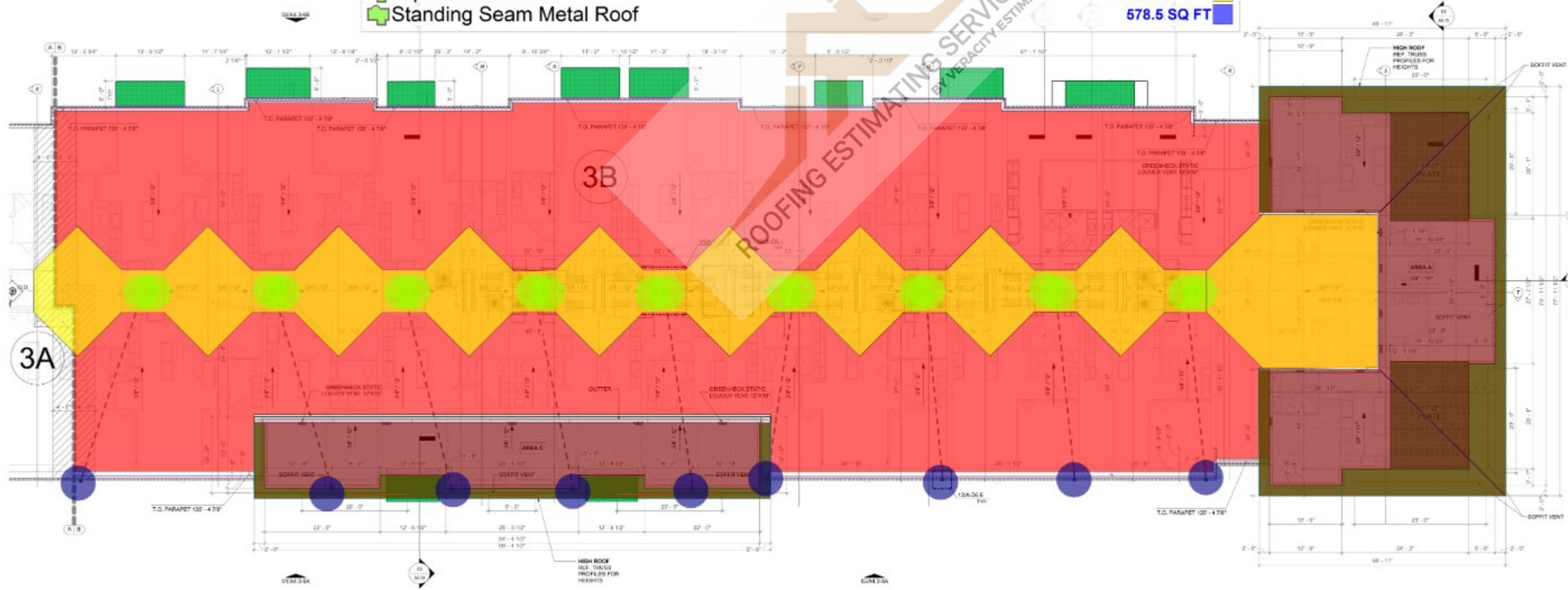


ROOF PLAN NOTES

- BUILDING TO BE PROVIDED WITH A COMPLETE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13B EXCEPT BUILDING 1A TO BE NFPA 13. SPRINKLER CONTRACTOR TO SUBMIT SHOP DRAWINGS, CALCULATIONS AND SPECS TO THE MANSFIELD FIRE MARSHALL'S OFFICE AND TARRANT COUNTY FOR PERMITTING AND REVIEWING PURPOSES INCLUDING A SITE PLAN SHOWING THE FIRE DEPARTMENT CONNECTION FOR EACH BUILDING. WHEREAS, BALCONIES & CORRIDORS ARE TO BE SPRINKLED.
- AUDIBLE EMERGENCY ALARM NOTIFICATION APPLIANCE SHALL PROVIDE A SOUND PRESSURE LEVEL OF 150BA ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 50BA ABOVE THE MAXIMUM SOUND LEVEL, HAVING A DURATION OF NOT LESS THAN 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPABLE SPACE WITHIN THE BUILDING.
- ALL BUILDINGS TO BE PROVIDED WITH EMERGENCY LIGHTING BATTERY BACKS IN ACCORDANCE WITH NFPA 101.
- REFER TO STRUCTURAL DRAWINGS FOR SHEARWALL LOCATIONS, TYPES AND ANCHORAGE REQUIREMENTS.
- WALL TYPE FLAGS SHOW FINISHES. FOR MATERIALS AND COLORS, REF ALSO TO ELEVATIONS.
- FOR FIRE EXTINGUISHER CABINET (PBC) AND STAND PIPE (SP) LOCATIONS, REFER TO AP-5.
- ALL DIMS ARE FROM STUD TO STUD - SOME BRICKLEDGE DIMS ARE SHOWN.

- Fiber Cement Board Soffit
- Soffit Vent
- Hip Flashing
- Step Wall Flashing
- AD3.16/19 & 4
- RS-4/ IS-7
- Bar Grating Mat (Assumed) Detail Not Mention
- Aluminum Gutter
- Ad5.5/12
- AD3.6/23 & AD3.6/28
- AD3.6/22 & AD5.4/03
- RS-2/IS-2
- AD3.6-1/01
- Tapered Insulation
- Standing Seam Metal Roof

- 1703.2 SQ FT
- 144.2 FT
- 68.0 FT
- 285.2 FT
- 347.3 FT
- 4400.1 SQ FT
- 610.4 SQ FT
- 174.2 FT
- 9.0 EA
- 215.5 FT
- 608.7 FT
- 15379.9 SQ FT
- 18.0 EA
- 3897.9 SQ FT
- 578.5 SQ FT



01 ROOF PLAN - AREA 'B' SCALE: 1/8" = 1'-0" BUILDING 3B

PRE CONSTRUCTION SETS		
DATE	REVISION	ISSUED FOR
10/1/20	1	PRELIMINARY
10/1/20	2	WORKING PROGRESS SET
10/1/20	3	PROGRESS SET

CONSTRUCTION SETS		
DATE	REVISION	ISSUED FOR
10/1/20	1	CONSTRUCTION SET

CONSTRUCTION SETS		
DATE	REVISION	ISSUED FOR
10/1/20	1	CONSTRUCTION SET