PROJECT: Casa Passiva 2

ADDRESS: 173 Harman Street Brooklyn, NY 11221

Notes:

Please review any addendum after 26 June 2021

Please price "Division 01 - GENERAL REQUIREMENTS" according to your requirements.

S#	Dwg.	CSI NO	DESCRIPTION	QTY.	Wastage	Qty w/ Wastage	UNIT	Unit Labor Cost	Unit Material Cost	Total Labor Cost (A)	Total Material Cost (B)	TOTAL COST (A+B)
		010000	**GENERAL REQUIREMNETS**									
1			Mobilization	1	0%	1	LS			$0	$0	$0
2			Supervision	1	0%	1	LS			$0	$0	$0
3			Safety requirements	1	0%	1	LS			$0	$0	$0
4			Office overheads	1	0%	1	LS			$0	$0	$0
5			Temporary facilities and controls	1	0%	1	LS			$0	$0	$0
6			Project Closeouts	1	0%	1	LS			$0	$0	$0
7			Submittal and approval	1	0%	1	LS			$0	$0	$0
8			Others	1	0%	1	LS			$0	$0	$0
			Subtotal							**$0**	**$0**	**$0**
		220000	**HVAC**									
			1st Floor Plan									
			Common Areas									
9			4" Supply Duct	2	10%	2	LF			$0	$0	$0
10			5" Supply Duct	57	10%	63	LF			$0	$0	$0
11			8" Supply Duct	94	10%	104	LF			$0	$0	$0
12			4" Return Duct	1	10%	1	LF			$0	$0	$0
13			5" Return duct	5	10%	5	LF			$0	$0	$0
14			6" Return Duct	6	10%	7	LF			$0	$0	$0
15			8" Return Duct	19	10%	21	LF			$0	$0	$0
16			New Supply Duct	11	10%	12	LF			$0	$0	$0
17			KN#M5, Multisplit Condensate Lines	202	10%	222	LF			$0	$0	$0
18			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: FTQ09LVJU Head Cooling Capacity(BTU) : 9500 Cooling Load (BTU) : 7000 Head Heating Capacity (BTU): 11100 Heating Load (BTU) : 9500	1	0%	1	EA			$0	$0	$0
19	**M-101**		KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: FTQ12LVJU Head Cooling Capacity(BTU) : 12000 Cooling Load (BTU) : 16495 Head Heating Capacity (BTU): 14000 Heating Load (BTU) : 3948	1	0%	1	EA			$0	$0	$0

S#	Dwg.	CSI NO	DESCRIPTION	QTY.	Wastage	Qty w/ Wastage	UNIT	Unit Labor Cost	Unit Material Cost	Total Labor Cost (A)	Total Material Cost (B)	TOTAL COST (A+B)
20			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: FTQ09LVJU Head Cooling Capacity(BTU) : 9500 Cooling Load (BTU) : -6932 Head Heating Capacity (BTU): 11100 Heating Load (BTU) : 10520	1	0%	1	EA			$0	$0	$0
21			KN#M11, Fire Damper	10	0%	10	EA			$0	$0	$0
22			KN#M12, Supply Grille	2	0%	2	EA			$0	$0	$0
23			KN#M12, Return Grille	2	0%	2	EA			$0	$0	$0
24			KN#M13, Seiho SX-8 Aluminum Vent Cap W/ Screen at ERV Exhaust Into Building	1	0%	1	EA			$0	$0	$0
25			KN#M14, Seiho SX-8 Aluminum Vent Cap W/ Screen at ERV Supply Into Building	1	0%	1	EA			$0	$0	$0
26			KN#M17, Daikin ceiling Unit	3	0%	3	EA			$0	$0	$0
27			ERV-9	1	0%	1	EA			$0	$0	$0
			Apartment A									
28			Supply Duct	26	10%	29	LF			$0	$0	$0
29			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: FTXS09 Head Cooling Capacity(BTU) : 9000 Cooling Load (BTU) : -43 Head Heating Capacity (BTU): 12000 Heating Load (BTU) : 10503	1	0%	1	EA			$0	$0	$0
30			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 1848 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 3199	1	0%	1	EA			$0	$0	$0
31	M-101		KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 1845 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 2962	1	0%	1	EA			$0	$0	$0
32			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 1845 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 4500	1	0%	1	EA			$0	$0	$0
33			KN#M7, Supply Grill	6	0%	6	EA			$0	$0	$0
34			Fire Damper	2	0%	2	EA			$0	$0	$0
			Apartment B									
35			Supply Duct	35	10%	38	LF			$0	$0	$0
36			KN#M2, Indoor Head	1	10%	1	LF			$0	$0	$0
37			KN#M2, Indoor Head	1	0%	1	EA			$0	$0	$0
38			KN#M2, Indoor Head	1	0%	1	EA			$0	$0	$0
39			KN#M7, Supply Grill	5	0%	5	EA			$0	$0	$0
40			KN#M16, Exhaust Shaft	2	0%	2	EA			$0	$0	$0

S#	Dwg.	CSI NO	DESCRIPTION	QTY.	Wastage	Qty w/ Wastage	UNIT	Unit Labor Cost	Unit Material Cost	Total Labor Cost (A)	Total Material Cost (B)	TOTAL COST (A+B)
41			Fire Damper	2	0%	2	EA			$0	$0	$0
			Typical Floor Plan									
		3	Apartment A									
42			Supply Duct	42	10%	46	LF			$0	$0	$0
43			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: FTXS09 Head Cooling Capacity(BTU) : 9000 Cooling Load (BTU) : 6844 Head Heating Capacity (BTU): 12000 Heating Load (BTU) : 3293	3	0%	3	EA			$0	$0	$0
44	M-102		KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 3702 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 1474	3	0%	3	EA			$0	$0	$0
45			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 3883 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 1674	3	0%	3	EA			$0	$0	$0
46			KN#M7, Supply Grill	15	0%	15	EA			$0	$0	$0
47			KN#M16, Exhaust Shaft	6	0%	6	EA			$0	$0	$0
48			Fire Damper	6	500%	36	EA			$0	$0	$0
		3	Apartment B									
49			Supply Duct	125	10%	137	LF			$0	$0	$0
50			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: FTXS09 Head Cooling Capacity(BTU) : 9000 Cooling Load (BTU) : 6866 Head Heating Capacity (BTU): 12000 Heating Load (BTU) : 2718	3	0%	3	EA			$0	$0	$0
51	M-102		KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 3780 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 1374	3	0%	3	EA			$0	$0	$0
52			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 3876 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 1660	3	0%	3	EA			$0	$0	$0
53			KN#M7, Supply Grill	18	0%	18	EA			$0	$0	$0
54			KN#M16, Exhaust Shaft	6	0%	6	EA			$0	$0	$0

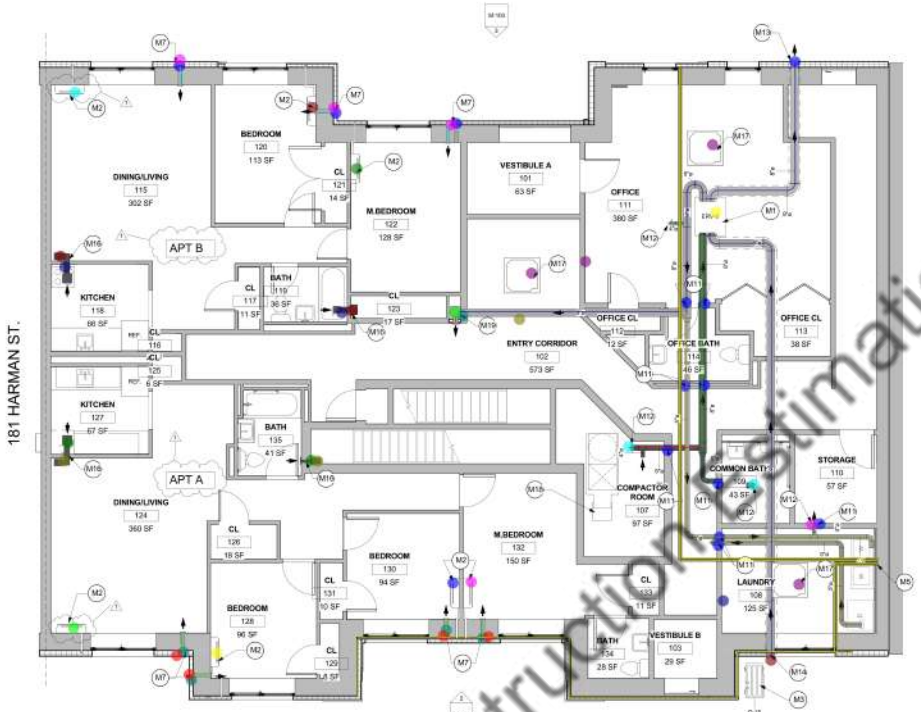
S#	Dwg.	CSI NO	DESCRIPTION	QTY.	Wastage	Qty w/ Wastage	UNIT	Unit Labor Cost	Unit Material Cost	Total Labor Cost (A)	Total Material Cost (B)	TOTAL COST (A+B)
55			Fire Damper	6	0%	6	EA			$0	$0	$0
		3	Apartment C									
56	M-102		Supply Duct	96	10%	105	LF			$0	$0	$0
57			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: FTXS09 Head Cooling Capacity(BTU) : 9000 Cooling Load (BTU) : 6866 Head Heating Capacity (BTU): 12000 Heating Load (BTU) : 2718	3	0%	3	EA			$0	$0	$0
58			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 3780 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 1374	3	0%	3	EA			$0	$0	$0
59			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 3876 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 1660	3	0%	3	EA			$0	$0	$0
60			KN#M7, Supply Grill	15	0%	15	EA			$0	$0	$0
61			KN#M16, Exhaust Shaft	9	0%	9	EA			$0	$0	$0
62			Fire Damper	6	0%	6	EA			$0	$0	$0
		3	Apartment D									
63	M-102		Supply Duct	96	10%	106	LF			$0	$0	$0
64			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: FTXS09 Head Cooling Capacity(BTU) : 9000 Cooling Load (BTU) : 6844 Head Heating Capacity (BTU): 12000 Heating Load (BTU) : 3293	3	0%	3	EA			$0	$0	$0
65			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 3702 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 1474	3	0%	3	EA			$0	$0	$0
66			KN#M2, Indoor Head VRF Brand : Daikin Indoor Unit Model NO.: CTXS07 Head Cooling Capacity(BTU) : 7000 Cooling Load (BTU) : 3883 Head Heating Capacity (BTU): 8500 Heating Load (BTU) : 1674	3	0%	3	EA			$0	$0	$0
67			KN#M7, Supply Grill	15	0%	15	EA			$0	$0	$0
68			KN#M16, Exhaust Shaft	6	0%	6	EA			$0	$0	$0
69			Fire Damper	6	0%	6	EA			$0	$0	$0

S#	Dwg.	CSI NO	DESCRIPTION	QTY.	Wastage	Qty w/ Wastage	UNIT	Unit Labor Cost	Unit Material Cost	Total Labor Cost (A)	Total Material Cost (B)	TOTAL COST (A+B)
			Roof Plan									
70			20"x4" supply Ducts	211	0%	211	LF			$0	$0	$0
71			Outdoor Unit O-1 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
72			Outdoor Unit O-2 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
73			Outdoor Unit O-3 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
74			Outdoor Unit O-4 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
75			Outdoor Unit O-5 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
76			Outdoor Unit O-6 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
77			Outdoor Unit O-7 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0

S#	Dwg.	CSI NO	DESCRIPTION	QTY.	Wastage	Qty w/ Wastage	UNIT	Unit Labor Cost	Unit Material Cost	Total Labor Cost (A)	Total Material Cost (B)	TOTAL COST (A+B)
78			Outdoor Unit O-8 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
79			Outdoor Unit O-9 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
80			Outdoor Unit O-10 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
81	M-103		Outdoor Unit O-11 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
82			Outdoor Unit O-12 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
83			Outdoor Unit O-13 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
84			Outdoor Unit O-14 VRF Brand : Daikin Outdoor Unit Model No. : 4MXS36NMVJU Outdoor Cooling Capacity (BTU) : 36000 Outdoor Heating Capacity(BTU) : 36000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 19.75	1	0%	1	EA			$0	$0	$0

S#	Dwg.	CSI NO	DESCRIPTION	QTY.	Wastage	Qty w/ Wastage	UNIT	Unit Labor Cost	Unit Material Cost	Total Labor Cost (A)	Total Material Cost (B)	TOTAL COST (A+B)
			Outdoor Unit O-15 VRF Brand : Daikin Outdoor Unit Model No. : 3MXS24NMVJU Outdoor Cooling Capacity (BTU) : 24000 Outdoor Heating Capacity(BTU) : 24000 V/Ph/Hz : 208-230/60/1 Min. Circuit AMPS : 18.7	1	0%	1	EA			$0	$0	$0
85			ERV-1 Energy Recovery Ventilator Min Capacity(CFM) : 114 Rated Capacity : T.B.D Brand : T.B.D Model: T.B.D	1	0%	1	EA			$0	$0	$0
86			ERV-2 Energy Recovery Ventilator Min Capacity(CFM) : 80 Rated Capacity : T.B.D Brand : T.B.D Model: T.B.D	1	0%	1	EA			$0	$0	$0
87			ERV-3 Energy Recovery Ventilator Min Capacity(CFM) : 60 Rated Capacity : T.B.D Brand : T.B.D Model: T.B.D	1	0%	1	EA			$0	$0	$0
88			ERV-4 Energy Recovery Ventilator Min Capacity(CFM) : 114 Rated Capacity : T.B.D Brand : T.B.D Model: T.B.D	1	0%	1	EA			$0	$0	$0
89			ERV-5 Energy Recovery Ventilator Min Capacity(CFM) : 152 Rated Capacity : T.B.D Brand : T.B.D Model: T.B.D	1	0%	1	EA			$0	$0	$0
90			ERV-6 Energy Recovery Ventilator Min Capacity(CFM) : 80 Rated Capacity : T.B.D Brand : T.B.D Model: T.B.D	1	0%	1	EA			$0	$0	$0
91			ERV-7 Energy Recovery Ventilator Min Capacity(CFM) : 80 Rated Capacity : T.B.D Brand : T.B.D Model: T.B.D	1	0%	1	EA			$0	$0	$0

S#	Dwg.	CSI NO	DESCRIPTION	QTY.	Wastage	Qty w/ Wastage	UNIT	Unit Labor Cost	Unit Material Cost	Total Labor Cost (A)	Total Material Cost (B)	TOTAL COST (A+B)
92			ERV-8 Energy Recovery Ventilator Min Capacity(CFM) : 152 Rated Capacity : T.B.D Brand : T.B.D Model: T.B.D	1	0%	1	EA			$0	$0	$0
93			KN#M20, 13"x13" FL-D-2 Fixed Louver	2	0%	2	EA			$0	$0	$0
			Exteriro Elevation									
94			9"x2" Interiro supply Ducts	298	10%	328	LF			$0	$0	$0
95			KN#M4, Multisplit Heat Pump Lines	1108	10%	1219	LF			$0	$0	$0
96	**M-103**		KN#5 Multisplit Condensate Lines	875	10%	962	LF			$0	$0	$0
97			KN#M14, Seiho SX-8 Aluminum Vent Cap W/ Screen at ERV Supply Into Building	1	0%	1	EA			$0	$0	$0
98			KN#M13, Seiho SX-8 Aluminum Vent Cap W/ Screen at ERV Exhaust Into Building	1	0%	1	EA			$0	$0	$0
			1st Floor Common Area Demo									
99			KN#MD5, Remove & Dispose Of Exist, corridor Exhaust Duct Including Corresponding GWB	1	0%	1	EA			$0	$0	$0
100	**MD-101**		KN#MD6, Remove & Dispose Of Exist, AC Unit & All Related Equipments Including Linesets in Its Entirely	1	0%	1	EA			$0	$0	$0
101			KN#MD8, Remove & Dispose of compactor in its Entirely	1	0%	1	EA			$0	$0	$0
			2nd-4th Floor Demo									
102	**MD-101**		KN#MD5, Remove & Dispose Of Exist, corridor Exhaust Duct Including Corresponding GWB	9	0%	9	EA			$0	$0	$0
			Roof plan Demo									
103			KN#MD1, Remove & Dispose of All Existing Roof Vents & Related Hardware	2	0%	2	EA			$0	$0	$0
104			KN#MD2, Remove & Dispose of Exist, Exhaust Fan	10	0%	10	EA			$0	$0	$0
105	**MD-101**		KN#MD4, Remove & Dispose of Electric Heat Convectors In Their Entirely	2	0%	2	EA			$0	$0	$0
106			KN#MD7, Remove & Dispose of Exist. Rectanguler Goose Neck Dryer Vent Exhaust	1	0%	1	EA			$0	$0	$0
107			KN#MD14, Create New Penetration To Allow For Ventilation Fan	2	0%	2	EA			$0	$0	$0
			Exterior Elevation Demo									
108			KN#MD10, Create New Opening To Allow For ERV Duct Penetration	2	0%	2	EA			$0	$0	$0
109			KN#MD11, Remove & dispose Of Portion Of Parapet wall to Allow For supply/Return Duct Penetration	16	0%	16	EA			$0	$0	$0
110	**MD-301/MD-302**		KN#MD12, Create New Opening To Allow For Multisplit Line/ Hydronic System Penetration Exterior To Interior	39	0%	39	EA			$0	$0	$0
111			KN#MD13, Remove & Dispose Of portion OF Wall To Allow For New ERV Exhaust/Intake & C.A.R	29	0%	29	EA			$0	$0	$0
112			KN#MD14, Create New Opening To Allow For Ventilation Fan	2	0%	2	EA			$0	$0	$0
			Subtotal							**$0**	**$0**	**$0**
			TOTAL AMOUNT							$0	$0	$0
			Contingencies (5%)							**$0**	**$0**	**$0**
			Overhead and Profit (15%)							**$0**	**$0**	**$0**
			TOTAL BASE BID							**$0**	**$0**	**$0**



1 PROPOSED FIRST FLOOR MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

KN#M2, Indoor Head, 124	1.0 EA
KN#M2, Indoor Head, 128	1.0 EA
KN#M2, Indoor Head, 130	1.0 EA
KN#M2, Indoor Head, 132	1.0 EA
KN#M2, Indoor Head, 115	1.0 EA
KN#M2, Indoor Head, 120	1.0 EA
KN#M2, Indoor Head, 122	1.0 EA
KN#M2, Indoor Head, 102	1.0 EA
KN#M2, Indoor Head, 108	1.0 EA
KN#M2, Indoor Head, 111	1.0 EA
KN#M7, Supply Grill	4.0 EA
Supply Duct up	4.0 EA
Supply Duct	6.3 FT
KN#M7, Supply Grill	3.0 EA
Supply Duct Up	3.0 EA
Supply Duct	4.7 FT
KN#M16, Exhaust Shaft	2.0 EA
Supply Duct	2.0 EA
New Grill & Fire Damper	2.0 EA
New Grill & Fire Damper	2.0 EA
KN#M17, Daikin ceiling Unit	3.0 EA
New Grill & Fire Damper	1.0 EA
New Supply Duct	0.6 FT
New Supply Duct up	1.0 EA
ERV-9	1.0 EA
KN#M11, Fire Damper	9.0 EA
KN#M12, Suupply Grille	1.0 EA
KN#M12, Return Grille	2.0 EA
KN#M14, Seiho SX-8 Aluminu...	1.0 EA
4" Supply Duct	2.2 FT
5" Supply Duct	56.8 FT
8" Supply Duct	94.5 FT
4" Return Duct	0.6 FT
5" Return duct	4.7 FT
6" Return Duct	6.2 FT
8" Return Duct	18.9 FT
KN#M5, Multisplit Condensat...	202.3 FT
KN#M13, Seiho SX-8 Aluminu...	1.0 EA

MECHANICAL LEGEND

SUMMARY:
Added APT labels
Optimized line set routes

ARCHITECT:
CHRIS BENEDICT, R.A.
317 EAST NINTH ST
NEW YORK, NEW YORK
10003

PROJECT
CASA PASSIVA 2
173 HARMAN ST.,
BROOKLYN, NY 11221

SET
-

SEAL & SIGNATURE

REVISIONS

Number	Description	Date
1	Revision 1 -	10/22/19

FIRST FLOOR
MECHANICAL PLAN

DATE: 01/30/19

M-101.00

1 PROPOSED TYPICAL FLOOR MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

KN#M2, Indoor Head, 2...	1.0 EA
KN#M2, Indoor Head, 2...	1.0 EA
KN#M2, Indoor Head, 2...	1.0 EA
KN#M2, Indoor Head, 2...	1.0 EA
KN#M2, Indoor Head, 2...	1.0 EA
KN#M2, Indoor Head, 2...	1.0 EA
KN#M2, Indoor Head, 2...	1.0 EA
KN#M2, Indoor Head, 2...	1.0 EA
KN#M2, Indoor Head, 2...	1.0 EA
KN#M2, Indoor Head, 2...	1.0 EA
KN#M2, Indoor Head, 2...	1.0 EA
KN#M7, Supply Grill	3.0 EA
KN#M7, Supply Grill	3.0 EA
KN#M7, Supply Grill	3.0 EA
KN#M7, Supply Grill	3.0 EA
Supply Duct Up	3.0 EA
Supply Duct Up	3.0 EA
Supply Duct Up	3.0 EA
Supply Duct Up	3.0 EA
Supply Duct	4.8 FT
Supply Duct	5.0 FT
Supply Duct	4.6 FT
Supply Duct	5.1 FT
KN#M16, Exhaust Shaft	2.0 EA
KN#M16, Exhaust Shaft	2.0 EA
KN#M16, Exhaust Shaft	3.0 EA
KN#M16, Exhaust Shaft	2.0 EA
New Grill & Fire Damper	2.0 EA
New Grill & Fire Damper	2.0 EA
New Grill & Fire Damper	2.0 EA
New Grill & Fire Damper	2.0 EA
KN#M19, Supply Duct Up	1.0 EA
KN#M19, Supply Duct	0.6 FT
New Grille	1.0 EA

ARCHITECT:
CHRIS BENEDICT, R.A.
317 EAST NINTH ST
NEW YORK, NEW YORK
10003

PROJECT
CASA PASSIVA 2
173 HARMAN ST.,
BROOKLYN, NY 11221

SET
-

SEAL & SIGNATURE

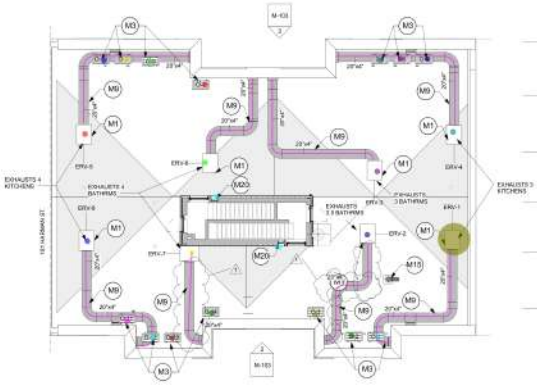
REVISIONS

Number	Description	Date
1	Revision 1 -	10/22/19

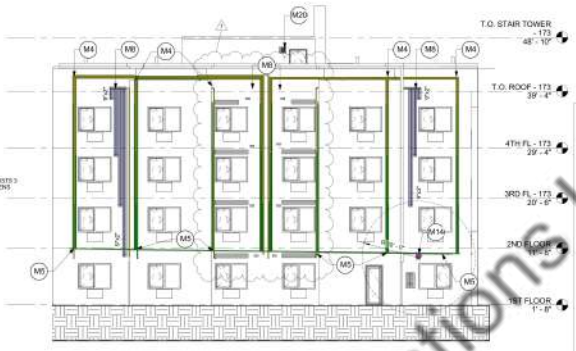
TYP. FLOOR MECHANICAL PLAN

DATE: 01/30/19

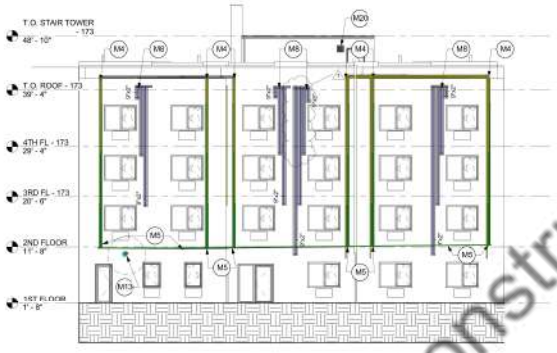
M-102.00



1 ROOF MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



2 WEST ELEVATION - MECHANICAL
SCALE: 1/8" = 1'-0"



3 EAST ELEVATION - MECHANICAL
SCALE: 1/8" = 1'-0"

ARCHITECT:
CHRIS BENEDICT, R.A.
317 EAST NINTH ST
NEW YORK, NEW YORK
10003

MECHANICAL NOTES

ARCHITECTURAL DRAWINGS & SCHEDULES ARE REPRESENTATIVE AND MAY NOT REFLECT ACTUAL CONDITIONS. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, SQUARE FOOTAGES, AND EXISTING CONDITIONS IN THE

Outdoor Unit O-1	1.0 EA
Outdoor Unit O-2	1.0 EA
Outdoor Unit O-3	1.0 EA
Outdoor Unit O-4	1.0 EA
Outdoor Unit O-5	1.0 EA
Outdoor Unit O-6	1.0 EA
Outdoor Unit O-7	1.0 EA
Outdoor Unit O-8	1.0 EA
Outdoor Unit O-9	1.0 EA
Outdoor Unit O-10	1.0 EA
Outdoor Unit O-11	1.0 EA
Outdoor Unit O-12	1.0 EA
Outdoor Unit O-13	1.0 EA
Outdoor Unit O-14	1.0 EA
ERV-1	1.0 EA
ERV-2	1.0 EA
ERV-3	1.0 EA
ERV-4	1.0 EA
ERV-5	1.0 EA
ERV-6	1.0 EA
ERV-7	1.0 EA
ERV-8	1.0 EA
20"x4" supply Ducts	211.0 FT
KN#M20, 13"x13" FL-D...	2.0 EA
KN#5 Multisplit Cond...	874.6 FT
KN#M4, Multisplit He...	1108.5 FT
9"x2" Interiro supply D...	298.5 FT
KN#M14, Seiho SX-8 A...	1.0 EA
KN#M13, Seiho SX-8 A...	1.0 EA

DAIKIN MULTI-SPLIT OUTDOOR HEAD
DAIKIN CEILING CASSETTE
ROOF ERV TBD
FCS COMPACTOR MODEL: JAX-18
INTERIOR RETURN
BOILER EXHAUST
BOILER INTAKE
LAUNDRY EXHAUST
CONDENSATE
REFRIGERANT

Optimized line set routes

PROJECT
173 HARMAN ST.,
BROOKLYN, NY 11221

SET

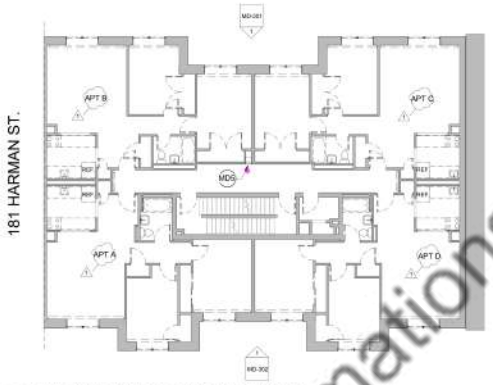
SEAL & SIGNATURE

REVISIONS
Description Date
Revision 1 - 10/22/19

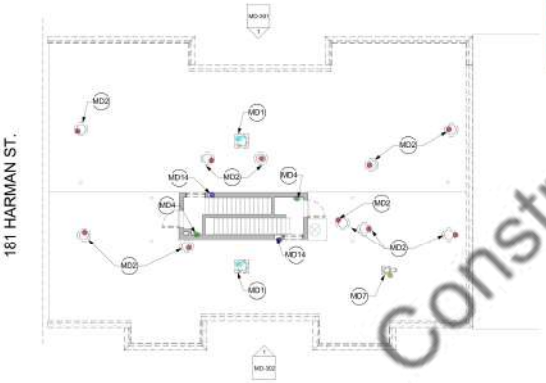
ANICAL ROOF
ELEVATIONS

M-103.00

1 FIRST FLOOR DEMOLITION PLAN MECHANICAL
SCALE: 1/8" = 1'-0"



2 TYPICAL FLOOR DEMOLITION PLAN MECHANICAL
SCALE: 1/8" = 1'-0"



3 ROOF DEMOLITION PLAN MECHANICAL
SCALE: 1/8" = 1'-0"

- KN#MD6, Remove & Dispose Of Exist. AC Unit & All Related Equipments Includin... 1.0 EA
- KN#MD5, Remove & Dispose Of Exist. corridor Exhaust Duct Including Correspon... 1.0 EA
- KN#MD8, Remove & Dispose of compactor in its Entirety 1.0 EA
- KN#MD5, Remove & Dispose Of Exist. corridor Exhaust Duct Including Correspon... 1.0 EA
- KN#MD1, Remove & Dispose of All Existing Roof Vents & Related Hardware 2.0 EA
- KN#MD2, Remove & Dispose of Exist. Exhaust Fan 10.0 EA
- KN#MD4, Remove & Dispose of Electric Heat Convectors In Their Entirely 2.0 EA
- KN#MD7, Remove & Dispose of Exist. Rectanguler Goose Neck Dryer Vent Exhaust 1.0 EA
- KN#MD14, Create New Penetration To Allow For Ventilation Fan 2.0 EA

MECHANICAL DEMOLITION NOTES

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-ALL WORK TO BE PHASED PER CONSTRUCTION PHASING STRATEGY SHOWN ON T-003. PHASE: DEMOLITION OF BUILDING HEATING SYSTEMS WITH INSTALLATION OF NEW SYSTEMS.

-GC TO CONFIRM WHAT ROOMS THE EXISTING VENT STACK FANS SERVE AND NOTIFY ARCHITECT OF ANY CONTRADICTIONS BETWEEN THE FIELD CONDITIONS AND THE DESIGN DRAWINGS.

-DRAIN HOT WATER HEATING SYSTEM IN ITS ENTIRETY PRIOR TO DEMOLITION. REMOVE & DISPOSE OF ALL EXIST. HOT WATER CONVECTORS AND EXPOSED PLUMBING IN THEIR ENTIRETY. CAP COPPER SUPPLY & RETURN BEHIND GYP. BD. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL.

-CAP DOMESTIC SUPPLY, RETURN LOOPS AND CITY WATER AT THE BOILER ROOM TO ALLOW CONNECTION FOR NEW BOILER. PATCH & REPAIR ANY DAMAGE.

-REMOVE & DISPOSE OF EXISTING KITCHEN & BATH EXHAUST VENT COVERS. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL, TYP.

-CALL OUTS MD10-13 ARE REPRESENTATIVE. ACTUAL DEMO LOCATIONS MUST BE FIELD COORDINATED.

MD1 REMOVE & DISPOSE OF ALL EXISTING ROOF VENTS & RELATED HARDWARE. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL, TYP.

MD2 REMOVE & DISPOSE OF EXISTING EXHAUST FANS. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL.

MD3 REMOVE & DISPOSE OF EXIST. EXHAUST CURB. MAKE FLUSH WITH EXISTING ROOF PLANE. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL. COORDINATE INFILL WITH ARCHITECT.

MD4 REMOVE & DISPOSE OF ELECTRIC HEAT CONVECTORS IN THEIR ENTIRETY. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL.

MD5 REMOVE & DISPOSE OF EXIST. CORRIDOR EXHAUST DUCT INCLUDING CORRESPONDING GWB. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL. MAINTAIN OPENING TO ALLOW FOR INSTALLATION OF NEW SUPPLY DUCT AND PLUMBING CHASE.

MD6 REMOVE & DISPOSE OF EXIST. AC UNIT & ALL RELATED EQUIPMENT INCLUDING LINESETS IN ITS ENTIRETY. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL, TYP.

MD7 REMOVE & DISPOSE OF EXIST. RECTANGULAR GOOSE NECK DRYER VENT EXHAUST. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL. MAINTAIN OPENING TO ALLOW FOR INSTALLATION OF NEW EXHAUST DUCT.

MD8 REMOVE & DISPOSE OF COMPACTOR IN ITS ENTIRETY. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL.

MD9 REMOVE & DISPOSE OF EXIST. BOILER, PUMPS, EXPANSION TANK, STORAGE TANK & ALL RELATED EQUIPMENT IN ITS ENTIRETY. DISCONTINUE, CAP & SEAL EXIST. CHIMNEY. CAP DOMESTIC SUPPLY, RETURN LOOPS AND CITY WATER. PATCH & REPAIR ANY DAMAGE.

MD10 CREATE NEW OPENING TO ALLOW FOR ERV DUCT PENETRATION. PATCH & REPAIR ANY DAMAGE CAUSED BY NEW PENETRATION. SEE MECHANICAL ELEVATIONS & PLANS FOR LOCATION.

MD11 REMOVE & DISPOSE OF PORTION OF PARAPET WALL TO ALLOW FOR SUPPLY/RETURN DUCT PENETRATIONS. COORDINATE WORK W/ MECHANICAL & SEE DETAIL ON M-203.

MD12 CREATE NEW PENETRATION TO ALLOW FOR MULTI-SPLIT LINE/HYDRONIC SYSTEM PENETRATION EXTERIOR TO INTERIOR. PATCH & REPAIR ANY DAMAGE CAUSED BY NEW PENETRATIONS. SEE MECHANICAL DETAIL ON M-204.

MD13 REMOVE & DISPOSE OF PORTION OF WALL TO ALLOW FOR NEW ERV EXHAUST/INTAKE AND C.A.R.. COORDINATE WORK W/ MECHANICAL.

MD14 CREATE NEW PENETRATION TO ALLOW FOR VENTILATION FAN. PATCH & REPAIR ANY DAMAGE CAUSED BY NEW PENETRATIONS. HEADER IF REQUIRED.

REV 1 GEN SHEET SUMMARY:
Added APT labels

ARCHITECT:
CHRIS BENEDICT, R.A.
317 EAST NINTH ST
NEW YORK, NEW YORK
10003

PROJECT

CASA PASSIVA 2
173 HARMAN ST.,
BROOKLYN, NY 11221

SET
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SEAL & SIGNATURE

REVISIONS

Number	Description	Date
1	Revision 1 -	10/22/19

MECHANICAL DEMOLITION PLAN

DATE: 01/30/19

MD-101.00

ARCHITECT:
CHRIS BENEDICT, R.A.
317 EAST NINTH ST
NEW YORK, NEW YORK
10003

1 EAST ELEVATION - DEMOLITION
SCALE: 1/4" = 1'-0"

- KN#MD10, Create New Opening To Allow For ERV Duct Penetration — 1.0 EA
- KN#MD11, Remove & dispose Of Portion Of Parapet wall to Allow For supply/Return Duct Pe... — 5.0 EA
- KN#MD12, Create New Opening To Allow For Multisplit Line/ Hydronic System Penetration ... — 18.0 EA
- KN#MD14, Create New Opening To Allow For Ventilation Fan — 1.0 EA
- KN#MD13, Remove & Dispose Of portion OF Wall To Allow For New ERV Exhaust/Intake & ... — 14.0 EA

MECHANICAL DEMOLITION NOTES

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-CAP DOMESTIC SUPPLY, RETURN LOOPS AND CITY WATER AT THE BOILER ROOM TO ALLOW CONNECTION FOR NEW BOILER. PATCH & REPAIR ANY DAMAGE.

-REMOVE & DISPOSE OF EXISTING KITCHEN & BATH EXHAUST VENT COVERS. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL, TYP.

-CALL OUTS MD10-13 ARE REPRESENTATIVE. ACTUAL DEMO LOCATIONS MUST BE FIELD COORDINATED.

MD1 REMOVE & DISPOSE OF ALL EXISTING ROOF VENTS & RELATED HARDWARE. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL, TYP.

MD2 REMOVE & DISPOSE OF EXISTING EXHAUST FANS. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL.

MD3 REMOVE & DISPOSE OF EXIST. EXHAUST CURB. MAKE FLUSH WITH EXISTING ROOF PLANE. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL. COORDINATE INFILL WITH ARCHITECT.

MD4 REMOVE & DISPOSE OF ELECTRIC HEAT CONVECTORS IN THEIR ENTIRETY. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL.

MD5 REMOVE & DISPOSE OF EXIST. CORRIDOR EXHAUST DUCT INCLUDING CORRESPONDING GWB. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL. MAINTAIN OPENING TO ALLOW FOR INSTALLATION OF NEW SUPPLY DUCT AND PLUMBING CHASE.

MD6 REMOVE & DISPOSE OF EXIST. AC UNIT & ALL RELATED EQUIPMENT INCLUDING LINESETS IN ITS ENTIRETY. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL, TYP.

MD7 REMOVE & DISPOSE OF EXIST. RECTANGULAR GOOSE NECK DRYER VENT EXHAUST. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL. MAINTAIN OPENING TO ALLOW FOR INSTALLATION OF NEW EXHAUST DUCT.

MD8 REMOVE & DISPOSE OF COMPACTOR IN ITS ENTIRETY. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL.

MD9 REMOVE & DISPOSE OF EXIST. BOILER, PUMPS, EXPANSION TANK, STORAGE TANK & ALL RELATED EQUIPMENT IN ITS ENTIRETY. DISCONTINUE, CAP & SEAL EXIST. CHIMNEY. CAP DOMESTIC SUPPLY, RETURN LOOPS AND CITY WATER. PATCH & REPAIR ANY DAMAGE.

MD10 CREATE NEW OPENING TO ALLOW FOR ERV DUCT PENETRATION. PATCH & REPAIR ANY DAMAGE CAUSED BY NEW PENETRATION. SEE MECHANICAL ELEVATIONS & PLANS FOR LOCATION.

MD11 REMOVE & DISPOSE OF PORTION OF PARAPET WALL TO ALLOW FOR SUPPLY/RETURN DUCT PENETRATIONS. COORDINATE WORK W/ MECHANICAL & SEE DETAIL ON M-203.

MD12 CREATE NEW PENETRATION TO ALLOW FOR MULTI-SPLIT LINE/HYDRONIC SYSTEM PENETRATION EXTERIOR TO INTERIOR. PATCH & REPAIR ANY DAMAGE CAUSED BY NEW PENETRATIONS. SEE MECHANICAL DETAIL ON M-204.

MD13 REMOVE & DISPOSE OF PORTION OF WALL TO ALLOW FOR NEW ERV EXHAUST/INTAKE AND C.A.R.. COORDINATE WORK W/ MECHANICAL.

MD14 CREATE NEW PENETRATION TO ALLOW FOR VENTILATION FAN. PATCH & REPAIR ANY DAMAGE CAUSED BY NEW PENETRATIONS. HEADER IF REQUIRED.

PROJECT

CASA PASSIVA 2
173 HARMAN ST.,
BROOKLYN, NY 11221

SET
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SEAL & SIGNATURE

REVISIONS

Number	Description	Date
1	Revision 1 -	10/22/19

MECHANICAL
DEMOLITION ELEVATIONS

DATE: 01/30/19

MD-301.00

ARCHITECT:
CHRIS BENEDICT, R.A.
317 EAST NINTH ST
NEW YORK, NEW YORK
10003

1 WEST ELEVATION - DEMOLITION
SCALE: 1/4" = 1'-0"

MECHANICAL DEMOLITION NOTES

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-CAP DOMESTIC SUPPLY, RETURN LOOPS AND CITY WATER AT THE BOILER ROOM TO ALLOW CONNECTION FOR NEW BOILER. PATCH & REPAIR ANY DAMAGE.

-REMOVE & DISPOSE OF EXISTING KITCHEN & BATH EXHAUST VENT COVERS. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL. TYP.

-CALL OUTS MD10-13 ARE REPRESENTATIVE. ACTUAL DEMO LOCATIONS MUST BE FIELD COORDINATED.

MD1 REMOVE & DISPOSE OF ALL EXISTING ROOF VENTS & RELATED HARDWARE. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL, TYP.

MD2 REMOVE & DISPOSE OF EXISTING EXHAUST FANS. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL.

MD3 REMOVE & DISPOSE OF EXIST. EXHAUST CURB. MAKE FLUSH WITH EXISTING ROOF PLANE. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL. COORDINATE INFILL WITH ARCHITECT.

MD4 REMOVE & DISPOSE OF ELECTRIC HEAT CONVECTORS IN THEIR ENTIRETY. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL.

MD5 REMOVE & DISPOSE OF EXIST. CORRIDOR EXHAUST DUCT INCLUDING CORRESPONDING GWB. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL. MAINTAIN OPENING TO ALLOW FOR INSTALLATION OF NEW SUPPLY DUCT AND PLUMBING CHASE.

MD6 REMOVE & DISPOSE OF EXIST. AC UNIT & ALL RELATED EQUIPMENT INCLUDING LINESETS IN ITS ENTIRETY. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL, TYP.

MD7 REMOVE & DISPOSE OF EXIST. RECTANGULAR GOOSE NECK DRYER VENT EXHAUST. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL. MAINTAIN OPENING TO ALLOW FOR INSTALLATION OF NEW EXHAUST DUCT.

MD8 REMOVE & DISPOSE OF COMPACTOR IN ITS ENTIRETY. PATCH & REPAIR ANY DAMAGE CAUSED BY THEIR REMOVAL.

MD9 REMOVE & DISPOSE OF EXIST. BOILER, PUMPS, EXPANSION TANK, STORAGE TANK & ALL RELATED EQUIPMENT IN ITS ENTIRETY. DISCONTINUE, CAP & SEAL EXIST. CHIMNEY. CAP DOMESTIC SUPPLY, RETURN LOOPS AND CITY WATER. PATCH & REPAIR ANY DAMAGE.

MD10 CREATE NEW OPENING TO ALLOW FOR ERV DUCT PENETRATION. PATCH & REPAIR ANY DAMAGE CAUSED BY NEW PENETRATION. SEE MECHANICAL ELEVATIONS & PLANS FOR LOCATION.

MD11 REMOVE & DISPOSE OF PORTION OF PARAPET WALL TO ALLOW FOR SUPPLY/RETURN DUCT PENETRATIONS. COORDINATE WORK W/ MECHANICAL & SEE DETAIL ON M-203.

MD12 CREATE NEW PENETRATION TO ALLOW FOR MULTI-SPLIT LINE/HYDRONIC SYSTEM PENETRATION EXTERIOR TO INTERIOR. PATCH & REPAIR ANY DAMAGE CAUSED BY NEW PENETRATIONS. SEE MECHANICAL DETAIL ON M-204.

MD13 REMOVE & DISPOSE OF PORTION OF WALL TO ALLOW FOR NEW ERV EXHAUST/INTAKE AND C.A.R., COORDINATE WORK W/ MECHANICAL.

MD14 CREATE NEW PENETRATION TO ALLOW FOR VENTILATION FAN. PATCH & REPAIR ANY DAMAGE CAUSED BY NEW PENETRATIONS. HEADER IF REQUIRED.

•KNWJD14, Create New Opening To Allow For Ventilation Fan	1.0 EA
•KNWJD13, Remove & Dispose Of portion OF Wall To Allow For New ERV Exhaust/Intake & C.A.R	19.0 EA
•KNWJD12, Create New Opening To Allow For Multisplit Line/ Hydronic System Penetration Exterior To I...	31.0 EA
•KNWJD11, Remove & dispose Of Portion Of Parapet wall to Allow For supply/Return Duct Penetration	9.0 EA
•KNWJD10, Create New Opening To Allow For ERV Duct Penetration	1.0 EA

PROJECT

CASA PASSIVA 2
173 HARMAN ST.,
BROOKLYN, NY 11221

SET
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SEAL & SIGNATURE

REVISIONS

Number	Description	Date
1	Revision 1 -	10/22/19

MECHANICAL
DEMOLITION ELEVATIONS

DATE: 01/30/19

MD-302.00