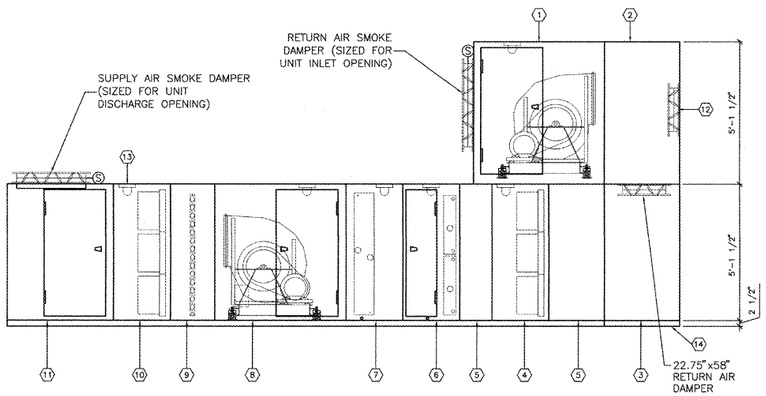
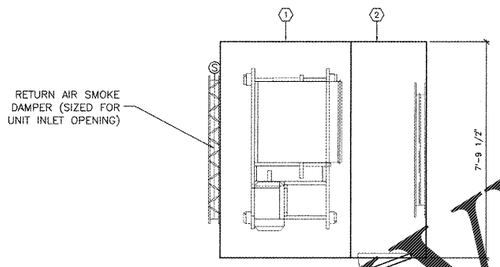


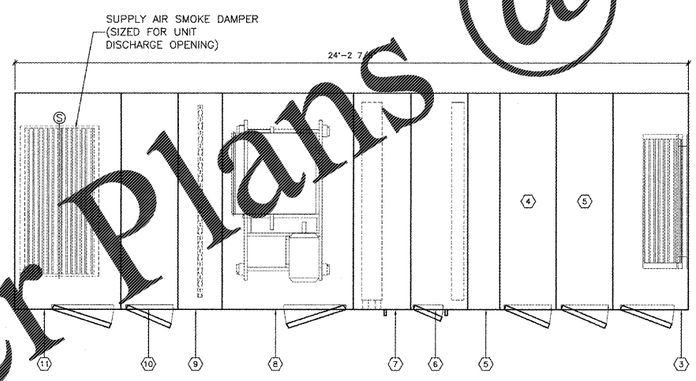
C2 TYPICAL AIR HANDLING UNIT – ELEVATION VIEW
SCALE: 1" = 1'-0"

TYPICAL AIR HANDLING UNIT KEYNOTES ⊗

1. RETURN FAN SECTION WITH ACCESS DOOR AND MARINE LIGHT. PROVIDE UL555S RATED SMOKE DAMPER (2 ACTUATORS).
2. RELIEF AIR SECTION.
3. AIR MIXING SECTION.
4. CARTRIDGE FILTER SECTION (MERV-11) WITH 2" PRE-FILTER (MERV-7).
5. ACCESS SECTION WITH MARINE LIGHT.
6. PREHEAT COIL WITH MARINE LIGHT.
7. CHILLED WATER COIL SECTION WITH MARINE LIGHT.
8. SUPPLY AIR FAN SECTION WITH ACCESS AND MARINE LIGHT.
9. DIFFUSER SECTION WITH ACCESS AND MARINE LIGHT.
10. AFTER FILTER (MERV 14) SECTION.
11. DISCHARGE PLENUM SECTION WITH ACCESS. PROVIDE UL555S RATED SMOKE DAMPER (2 ACTUATORS).
12. 16x16 RELIEF AIR LOUVER.
13. SERVICE LIGHT (TYPICAL).
14. UNIT MANUFACTURER PROVIDED 2-1/2" HIGH BASE RAIL.



D2 TYPICAL AIR HANDLING UNIT – UPPER PLAN
SCALE: 1" = 1'-0"

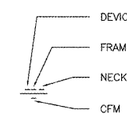


F2 TYPICAL AIR HANDLING UNIT – LOWER PLAN
SCALE: 1" = 1'-0"

NOTE: ROOM TEMPERATURE SENSORS SHALL BE LOCATED ABOVE SECURITY GRILLE SURFACES; COORDINATE ACCESS

AIR DISTRIBUTION DEVICE SCHEDULE

DEVICE LETTER	DEVICE TYPE	MANUFACTURER AND MODEL NUMBER	FRAME NUMBER	FRAME SIZE	NECK LETTER	NECK SIZE
A	LOUVERED FACE	NAILOR 6500	1	12x12	A	6"ø
B	BAR GRILLES	NAILOR SERIES 49	2	24x24	B	8"ø
C	CEILING REGISTER	NAILOR 61 DV	3	24x12	C	10"ø
D	DRUM LOUVER	NAILOR 45 DL	4	NECK + FRAME	D	12x12
E	EGGCRATE	NAILOR 61 EC	5	36x4	E	14x14
F	FILTER GRILLE	NAILOR 61 FP	6	48x4	F	16"ø
G	SIDEWALL GRILLE	NAILOR 6155 H	7	48x12	G	22x22
H	FIRE RATED	NAILOR	8	132x4	H	NECK SIZE
J	CURVED GRILLE	61DVC				
K	PLENUM DIFFUSER	NAILOR				
L	LAMINAR FLOW	NAILOR 92LFD-SS				
M	LINEAR SLOT	NAILOR 5010/5010R				
N	LINEAR SLOT	NAILOR 48LL2				
P	PERFORATED FACE	NAILOR 4325/4360				
Q	RAISED FLOOR DIFF	NAILOR				
R	ROUND	NAILOR				
S	SECURITY GRILLES	NAILOR SG-PR				
T	SIDEWALL REGISTER	NAILOR 61 DV				



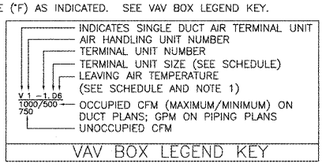
AIR DISTRIBUTION LEGEND KEY

NOTES
1. MAXIMUM AIR VELOCITY THROUGH DIFFUSERS, GRILLES AND REGISTERS SHALL BE 500 FPM, UNLESS INDICATED OTHERWISE.
2. MAXIMUM NC SHALL BE 30.
3. PROVIDE FRAMES SUITABLE FOR TYPE OF INSTALLATION REQUIRED, VERIFY WITH FINAL APPROVED ARCHITECTURAL CEILING PLAN.
4. BASIS OF DESIGN IS NAILOR. ACCEPTABLE ALTERNATE MANUFACTURERS ARE PRICE AND TITUS.
5. PROVIDE SQUARE TO ROUND TRANSITION WITH APPROPRIATE NECK SIZE, AS REQUIRED.
6. FINISH SHALL BE OFF-WHITE UNLESS NOTED OTHERWISE.
7. SEE PLANS FOR NECK SIZES OF REGISTERS AND GRILLES, ETC.
8. INSULATE BACK PANEL OF ALL SUPPLY DIFFUSERS. INSULATION TYPE SHALL MATCH INSULATION USED ON SUPPLY DUCTWORK.
9. DEVICES LOCATED IN TOILET(S) SHALL BE CONSTRUCTED OF ALUMINUM.
10. FOR SECURITY GRILLES, PROVIDE OPPOSED-BLADE DAMPERS WITH FACE OPERATORS AND SINGLE-DEFLECTION VERTICAL ADJUSTABLE BLADES AND 6-INCH SLEEVE.

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE (HOT WATER REHEAT)

UNIT SIZE (SEE NOTE 1)	MAXIMUM CFM RANGE	INLET SIZE	MAXIMUM AIR PRESSURE DROP (IN)	HOT WATER HEATING COIL		SELECTION BASED ON	
				MAXIMUM WPD (FT)	LAT (°F)	MANUFACTURER	MODEL NUMBER
A0 – A9	0–150	4ø	0.5	1.0	SEE NOTE 1	NAILOR	30RW-4
B0 – B9	151–400	6ø	0.5	1.0	SEE NOTE 1	NAILOR	30RW-6
C0 – C9	401–700	8ø	0.5	3.0	SEE NOTE 1	NAILOR	30RW-8
D0 – D9	701–1100	10ø	0.5	3.0	SEE NOTE 1	NAILOR	30RW-10
E0 – E9	1101–1600	12ø	0.5	5.0	SEE NOTE 1	NAILOR	30RW-12
F0 – F9	1601–2100	14ø	0.75	5.0	SEE NOTE 1	NAILOR	30RW-14
G0 – G9	2101–2800	16ø	0.75	5.0	SEE NOTE 1	NAILOR	30RW-16
H0 – H9	2801–5350	24x14	1.0	5.0	SEE NOTE 1	NAILOR	30RW-16x24

NOTES:
1. PROVIDE HOT WATER REHEAT COIL WITH THE FOLLOWING LEAVING AIR TEMPERATURE (°F) AS INDICATED. SEE VAV BOX LEGEND KEY.
   0 – NO REHEAT COIL 5 – 95
   1 – 75 6 – 100
   2 – 80 7 – 105
   3 – 85 8 – 110
   4 – 90 9 – 115
2. HEATING COIL CAPACITIES BASED ON 55°F EAT, 180°F EWT, AND 150° LWT.
3. HEATING CFM = MINIMUM CFM.
4. MAXIMUM INLET VELOCITY SHALL BE 2,200 FPM.
5. MAXIMUM NC AT 1" S.P. = 35, IN ACCORDANCE WITH AIR STANDARD 880-98.
6. ALL SINGLE DUCT AIR TERMINAL UNITS SHALL BE PRESSURE INDEPENDENT TYPE.
7. SINGLE DUCT AIR TERMINAL UNITS MAXIMUM AND MINIMUM SETPOINTS SHALL BE AT CFM SHOWN ON MECHANICAL FLOOR PLANS.
8. MAXIMUM AIR PRESSURE DROP INDICATED INCLUDES AIR PRESSURE DROP THROUGH DAMPER AND HOT WATER REHEAT COILS AT MAXIMUM AIR FLOW.
9. PROVIDE HOT WATER HEATING COILS WITH MINIMUM NUMBER OF ROWS REQUIRED TO PROVIDE GPM LISTED ON PLANS WITHOUT EXCEEDING MAXIMUM WATER PRESSURE DROP OR MAXIMUM AIR PRESSURE DROP INDICATED ON SCHEDULE.
10. SINGLE DUCT AIR TERMINAL SHOP DRAWINGS SHALL IDENTIFY EACH UNIT WITH CORRESPONDING ROOM NUMBER AND UNIT RATINGS CLEARLY INDICATED.
11. BASIS OF DESIGN IS NAILOR. ACCEPTABLE ALTERNATE MANUFACTURERS ARE PRICE AND TITUS.
12. PROVIDE FACTORY-MOUNTED DISCONNECT SWITCH (SINGLE POINT POWER CONNECTION) AND A CONTROLS TRANSFORMER FOR EVERY 6 BOXES.
13. PROVIDE SEISMIC BRACING.



VAV BOX LEGEND KEY

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Revisions	By Date
REVISION NO.	REVISION DESCRIPTION

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Recommended Approvals:	
1. MEDICAL CENTER DIRECTOR	6. OPERATIONS SERVICE LINE MANAGER
2. ASSISTANT DIRECTOR	7. INFECTION CONTROL MANAGER
3. CHIEF OF STAFF	8. SAFETY MANAGER
4. ASSOC. DIRECTOR	9. GENERAL ENGINEER
5. SERVICE LINE MGRS.	10. COR

Drawing Title: MECHANICAL SCHEDULES

100% CONSTRUCTION DOCUMENTS

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Project Title: RENOVATE MENTAL HEALTH UNITS

Drawn | Building Number | AutoCAD File Name

Checked | Reviewed | Const. Contract No.

Date: February 10, 2017
Project Number: 509-12-104
DRAWING No.: M602

Veterans Affairs