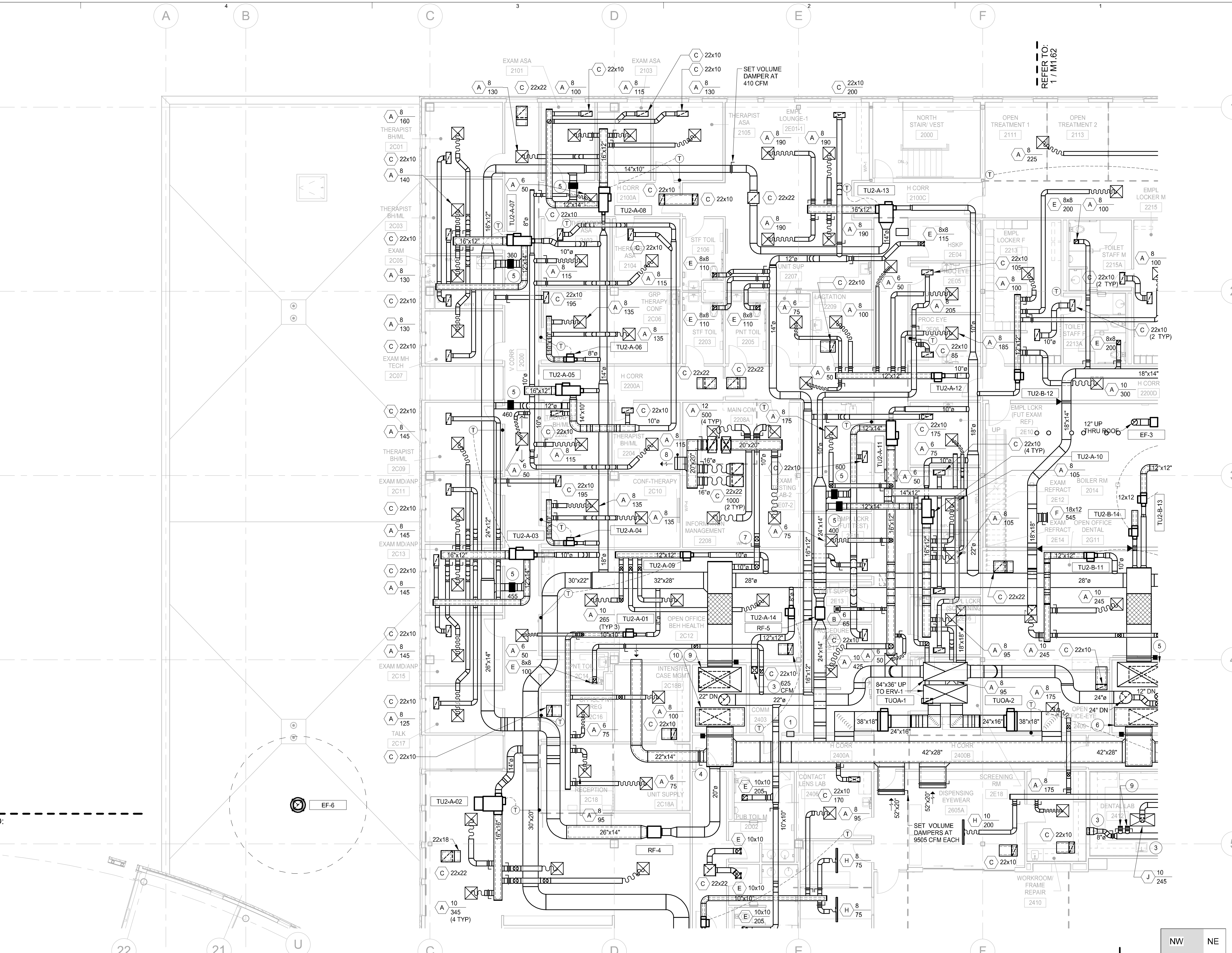

GENERAL NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED GRILLES, REGISTERS, AND DIFFUSERS.
2. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL SIDEWALL GRILLES & REGISTERS.
3. FAN POWERED TERMINAL UNITS THAT ARE OPEN TO THE CEILING PLENUM SHALL HAVE A 90 DEGREE LINED BOOT THAT IS THE FULL SIZE OF THE TERMINAL UNIT DUCT CONNECTION AND SHALL TURN UP.
4. IF ADEQUATE SPACE IS FOUND TO EXIST AFTER COORDINATION WITH ALL TRADES, ROUND DUCTWORK OF EQUAL SIZE MAY BE SUBSTITUTED FOR UNLINED RECTANGULAR DUCTWORK SHOWN ON THE PLANS.
5. SUPPLY AND RETURN AIR VOLUMES SHALL BE BALANCED WHEN ASSOCIATED TERMINAL UNITS ARE DELIVERING MAXIMUM PRIMARY (COOLING) CFM AND DOORS ARE CLOSED. HEATING CFMS FOR PARALLEL FAN TERMINALS MAY BE MORE THAN THE MAXIMUM COOLING CFM, SO ALSO OPERATE TERMINAL IN HEATING MODE TO VERIFY THAT UNACCEPTABLE NOISE CONDITIONS DO NOT EXIST.
6. WHERE CFM IS NOT INDICATED AT RETURN GRILLES, LEAVE VOLUME DAMPER WIDE OPEN.

SHEET NOTES:

1. 14"x12" SHEET METAL LINED OPENING IN WALL.
2. PROVIDE TERMINAL UNIT W/O CONTROLLER, BUT W/ VELOCITY SENSOR TO RETROFIT W/ CONTROLS IF NEEDED.
3. DIRECT AIRFLOW STRAIGHT TO FLOOR WITH 90-DEGREE ELBOW.
4. ADJUST CFM FOR NEUTRAL HALLWAYS RELATIVE TO REST OF BUILDING.
5. PROVIDE BALANCING TERMINAL WITH 30" LONG STRAIGHT ROUND DUCT ON AIR INLET SIDE. 8" ROUND INLET SIZE UP TO 360 CFM, 10" ROUND INLET SIZE UP TO 900 CFM, 12" ROUND INLET SIZE UP TO 1400 CFM.
6. 8" ROUND OPEN DUCT W/ HIGH PRESSURE VOLUME DAMPER. LEAVE FULLY CLOSED.
7. EMERGENCY BACKUP COOLOING DAMPER WITH TIGHT-CLOSING HIGH PRESSURE DAMPERS. LEAVE FULLY CLOSED.
8. 24x20 TRANSFER DUCT ABOVE CEILING W/ COUNTER-BALANCED BACKDRAFT DAMPER SET TO RELEAVE AT 0.05" S.P.
9. 84"x32" SUPPLY AIR UP TO AHU-1 ON ROOF.
10. 96"x36" (INSIDE) W/ 1" ACOUSTIC LINING UP TO AHU-1 ON ROOF.

1 LEVEL 2 - ENLARGED HVAC PLAN - NW
1/8" = 1'-0"

0' 8' 16' 32'

NORTH

KEY PLAN
NW NE
SW SE

FINAL SUBMITTAL

STATE OF ALASKA
49TH
DON M. IVERSON
July 19,2011
ME 8432
REGISTERED PROFESSIONAL ENGINEER

kpb architects

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223 Yale Avenue North Seattle, WA 98109
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NEESER CONSTRUCTION, INC.
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Office (907) 276-1058 Fax (907) 276-8533

COFFMAN ENGINEERS

Southcentral Foundation
Valley Native Primary Care Center
Wasilla, Alaska

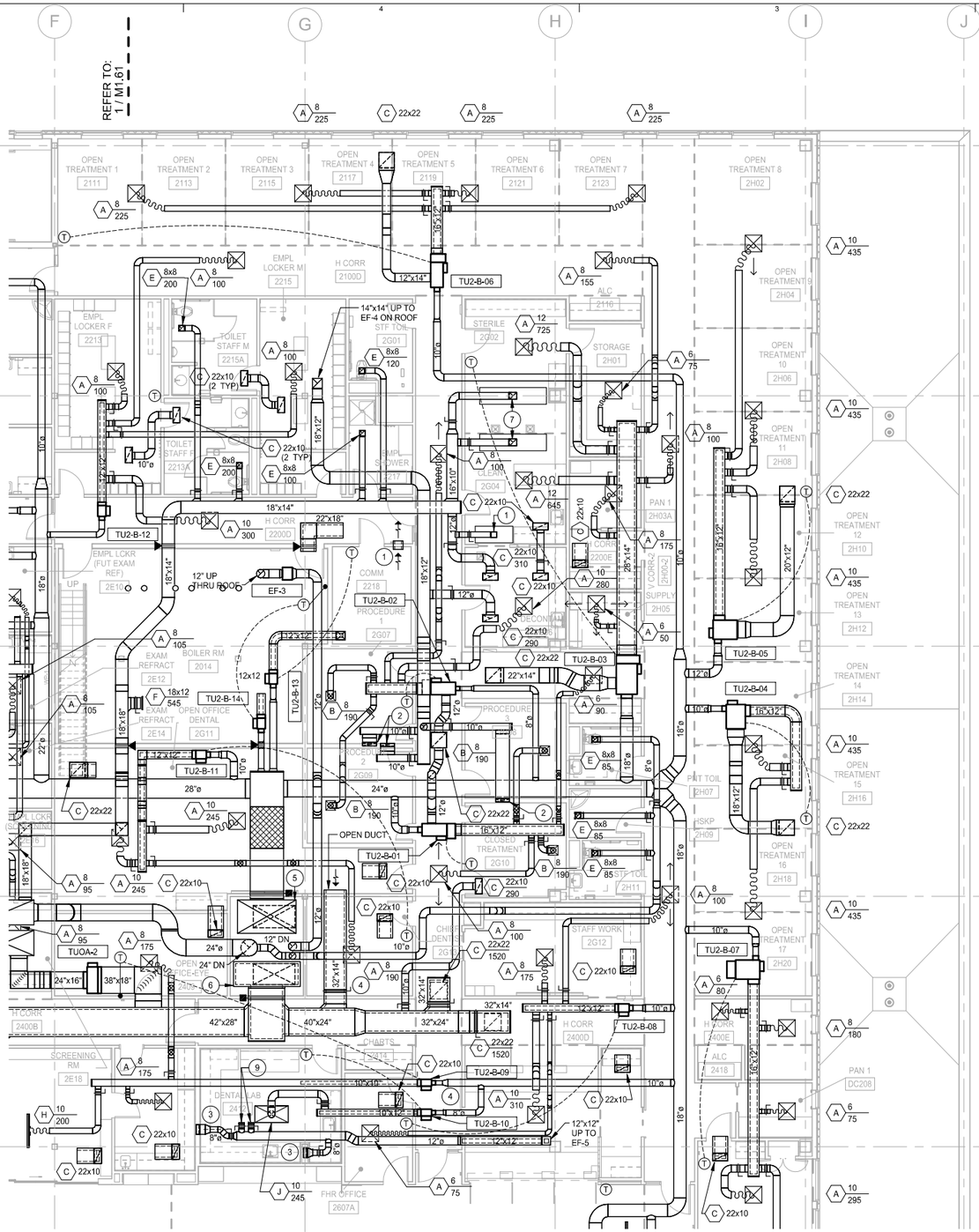
REVISION SCHEDULE		
#	DESCRIPTION	DATE

JOB NO. - NCI	11101
JOB NO. - kpb	A9061.01
JOB NO. - nbbj	100748.00
DATE	09/16/2011
DRAWN	GSR
REVIEWED	JJS

SHEET NAME
LEVEL 2 - ENLARGED HVAC PLAN - NW

SHEET NO.
M1.61

FULL SIZE: 22"x34" - HALF SIZE: 11"x17"



1 LEVEL 2 - ENLARGED HVAC PLAN - NE

1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED GRILLES, REGISTERS, AND DIFFUSERS.
2. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL SIDEWALL GRILLES & REGISTERS.
3. FAN POWERED TERMINAL UNITS THAT ARE OPEN TO THE CEILING PLENUM SHALL HAVE A 90 DEGREE LINED BOOT THAT IS THE FULL SIZE OF THE TERMINAL UNIT DUCT CONNECTION AND SHALL TURN UP.
4. IF ADEQUATE SPACE IS FOUND TO EXIST AFTER COORDINATION WITH ALL TRADES, ROUND DUCTWORK OF EQUAL SIZE MAY BE SUBSTITUTED FOR UNLINED RECTANGULAR DUCTWORK SHOWN ON THE PLANS.
5. SUPPLY AND RETURN AIR VOLUMES SHALL BE BALANCED WHEN ASSOCIATED TERMINAL UNITS ARE DELIVERING MAXIMUM PRIMARY (COOLING) CFM AND DOORS ARE CLOSED. HEATING CFMS FOR PARALLEL FAN TERMINALS MAY BE MORE THAN THE MAXIMUM COOLING CFM, SO ALSO OPERATE TERMINAL IN HEATING MODE TO VERIFY THAT UNACCEPTABLE NOISE CONDITIONS DO NOT EXIST.
6. WHERE CFM IS NOT INDICATED AT RETURN GRILLES, LEAVE VOLUME DAMPER WIDE OPEN.

SHEET NOTES:

1. 14"x12" SHEET METAL LINED OPENING IN WALL.
2. 20"x4" DN IN WALL TO EXHAUST GRILLE TYPE 'E' 10x10 NECK, 290 CFM @ 6" A.F.F.
3. MOUNT BOTTOM OF EXHAUST GRILLE TYPE 'E' 8x6 NECK 135 CFM AT TOP OF BACKSPLASH.
4. MOUNT SPEED CONTROLLER FOR EF-6 ABOVE THE CEILING ADJACENT TO TU-2-B-10.
5. 84"x32" SUPPLY AIR DUCT UP TO AHU-2 ON ROOF.
6. 96"x36" (INSIDE) W/ 1" ACOUSTIC LINING UP TO AHU-2 ON ROOF.
7. CONNECT 10"x10" STAINLESS STEEL EXHAUST DUCT TO 96"L x 24"W x 24"H STAINLESS STEEL EXHAUST HOOD. BALANCE FOR 400 CFM.
8. CONNECT 8"x8" STAINLESS STEEL EXHAUST DUCT TO 54"L x 24"W x 24"H STAINLESS STEEL EXHAUST HOOD. BALANCE FOR 150 CFM.
9. PROVIDE 8" DIAMETER CAP W/ VOLUME DAMPER READY FOR FUTURE EXTENSION TO EXHAUST DEVICES (ALLOW 150 CFM EACH).

KEY PLAN

NW | NE | SW | SE

FINAL SUBMITTAL

STATE OF ALASKA 49 TH
DON M. IVERSON
July 19,2011
ME 8432
REGISTERED PROFESSIONAL ENGINEER

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ACOFFMAN ENGINEERING

Southcentral Foundation

Valley Native Primary Care Center

Wasilla, Alaska

REVISION SCHEDULE		
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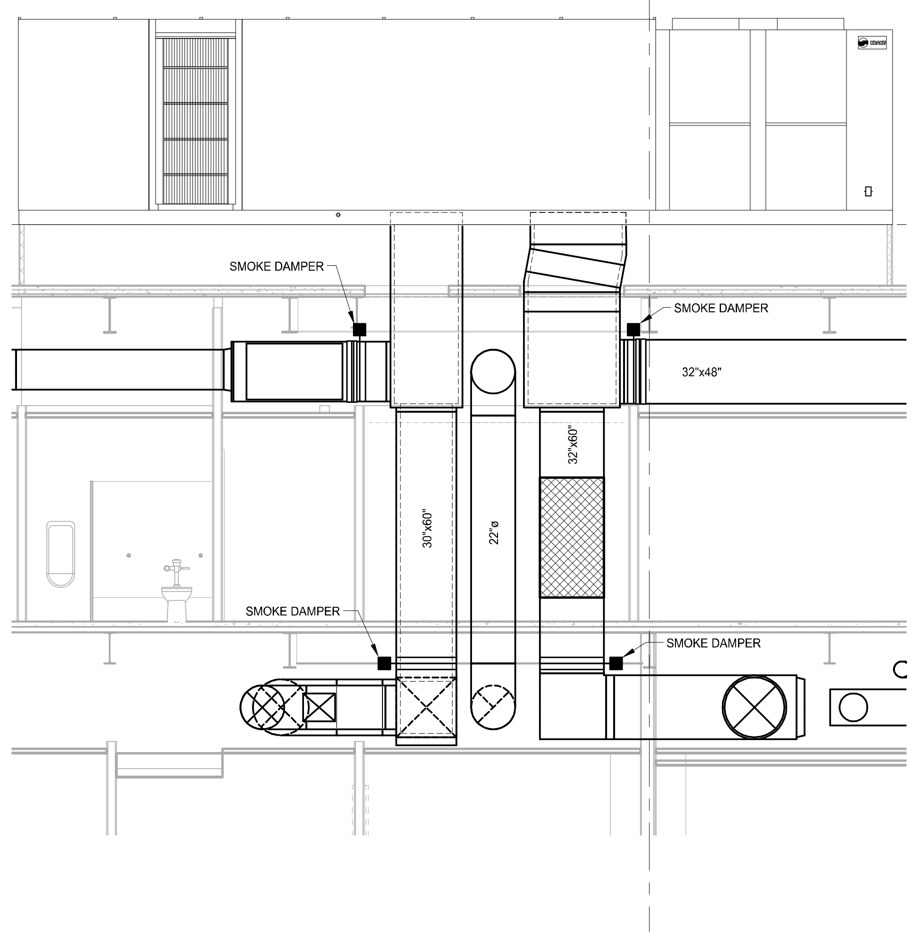
JOB NO. - NCI	11101
JOB NO. - kpb	A9061.01
JOB NO. - nbbj	100748.00
DATE	09/16/2011
DRAWN	GSR
REVIEWED	JJS

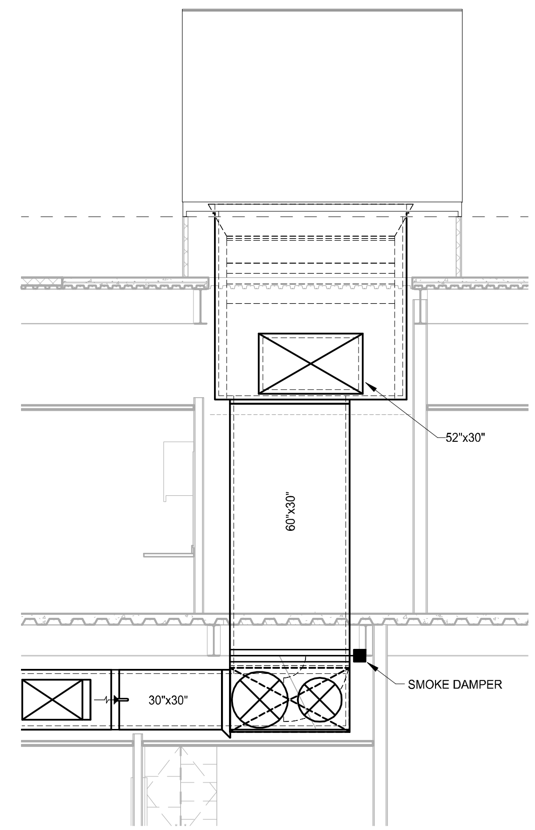
SHEET NAME
LEVEL 2 - ENLARGED HVAC PLAN - NE

SHEET NO.
M1.62

FULL SIZE: 22"x34" - HALF SIZE: 11"x17"



1 WEST SHAFT - LOOKING WEST
1/4" = 1'-0"



2 WEST SHAFT - LOOKING NORTH
1/4" = 1'-0"

STATE OF ALASKA
49TH
DON M. IVERSON
July 19,2011
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COFFMAN ENGINEERS

Southcentral Foundation
Valley Native Primary Care Center
Wasilla, Alaska

REVISION SCHEDULE		
#	DESCRIPTION	DATE

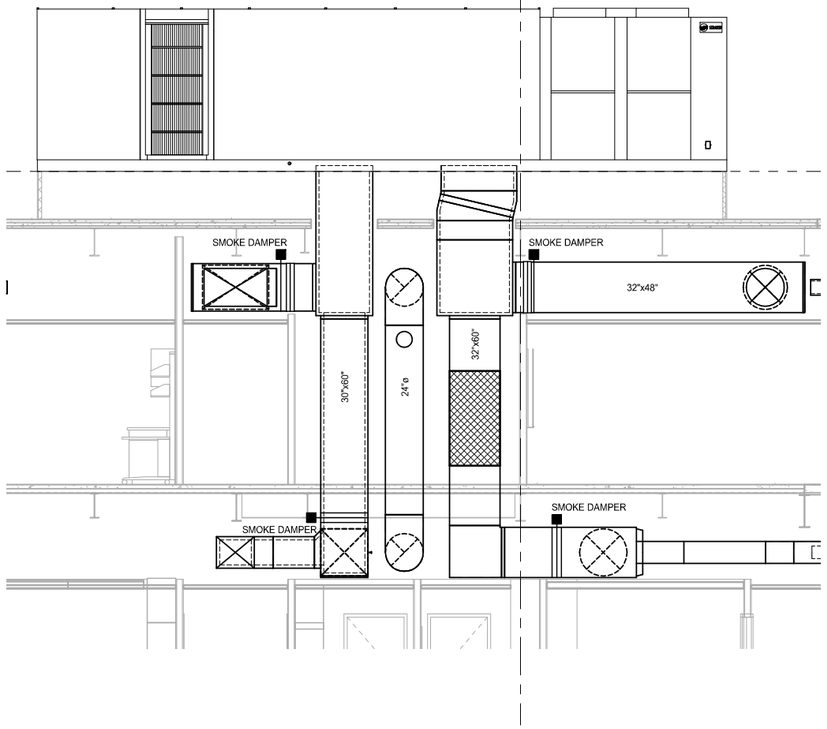
JOB NO. - NCI	11101
JOB NO. - kpb	A9061.01
JOB NO. - nbbj	100748.00
DATE	09/16/2011
DRAWN	GSR
REVIEWED	DMI,JJS

SHEET NAME
SECTIONS

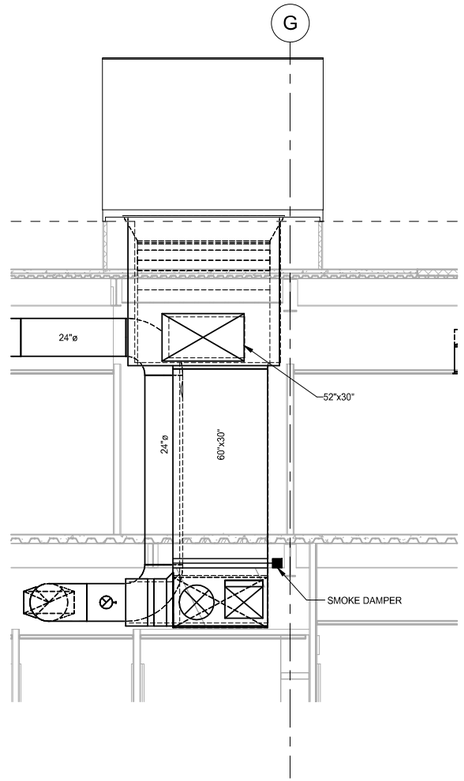
SHEET NO.
M3.01

FINAL SUBMITTAL

FULL SIZE: 22"x34" - HALF SIZE: 11"x17"



1 EAST SHAFT - LOOKING WEST
1/4" = 1'-0"



2 EAST SHAFT - LOOKING NORTH
1/4" = 1'-0"

STATE OF ALASKA
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COFFMAN ENGINEERS

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Wasilla, Alaska

REVISION SCHEDULE		
#	DESCRIPTION	DATE

JOB NO. - NCI	11101
JOB NO. - kpb	A9061.01
JOB NO. - nbbj	100748.00
DATE	09/16/2011
DRAWN	GSR
REVIEWED	DMI,JJS

SHEET NAME
SECTIONS

SHEET NO.
M3.02

FINAL SUBMITTAL

FULL SIZE: 22"x34" • HALF SIZE: 11"x17"

AIR INLET AND OUTLET SCHEDULE

MARK	PURPOSE	TYPE	FACE SIZE (IN)	BORDER TYPE	MATERIAL	BASIS OF DESIGN		REMARKS
						MFR	MODEL	
A	SUPPLY	MODULAR CORE	24x24	LAY IN	STEEL	TITUS	MCD	
B			VARIES	SURFACE MOUNT	STEEL	TITUS	MCD	
C	RETURN/EXHAUST	3/4" SPACING, 35o DEFLECTION GRILLE	VARIES	LAY IN	STEEL	TITUS	350RL	SEE NOTE 5
			24x24	LAY IN	STEEL	TITUS	350RL	
E			VARIES	SURFACE MOUNT	STEEL	TITUS	350RL	
F	SUPPLY	3/4" SPACING, DOUBLE DEFLECTION, ADJUSTABLE BLADES	VARIES	SURFACE OR DUCT MOUNT	STEEL	TITUS	300RL	
G	SUPPLY	3/4" SPACING, DOUBLE DEFLECTION, ADJUSTABLE BLADES	VARIES	SURFACE OR DUCT MOUNT	STEEL	TITUS	271RL	
H	SUPPLY	LINEAR DIFFUSER	VARIES	LAY IN	STEEL	TITUS	ML38	(2) 3/4" SLOT, 4' LENGTH WITH INTEGRAL 8" INLET PLENUM MP38
I	SUPPLY	LINEAR DIFFUSER	VARIES	LAY IN	STEEL	TITUS	FL-25	(2) 2-1/2" SLOTS, 4' LENGTH WITH INTEGRAL 10" INLET PLENUM FBP-25
J	SUPPLY	LAMINAR FLOW DIFFUSER	48x24	LAY IN	STEEL	TITUS	TLF	
K	SUPPLY	SPIRAL DUCT-MTD, DBL-DEFL	VARIES	DUCT MOUNT	ALUMINUM	TITUS	S300FL	
L	SUPPLY	SPIRAL DUCT-MTD, DBL-DEFL	VARIES	DUCT MOUNT	ALUMINUM	TITUS	S300FL	PROVIDE WITH 45 DEG EXTRACTOR
P	SUPPLY	LINEAR DIFFUSER	VARIES	LAY IN	STEEL	TITUS	FL-25	(1) 1" SLOT, 4' LENGTH WITH INTEGRAL PLENUM
Q	SUPPLY	LINEAR DIFFUSER	VARIES	LAY IN	STEEL	TITUS	FL-25	(2) 2.5" SLOT, 4' LENGTH WITH INTEGRAL PLENUM
R	RETURN	LINEAR DIFFUSER	VARIES	SURFACE MOUNT	STEEL	TITUS	MLR39	(6) 1" SLOT, 4' LENGTH WITH RETURN AIR BOOT AS SHOWN ON FLOOR PLANS.

NOTES:

1. PROVIDE CONNECTING DUCT BETWEEN MAIN DUCT AND CEILING GRILLE, REGISTER, OR DIFFUSER. SIZE OF DUCT SHALL BE AS INDICATED BELOW, UNLESS INDICATED OTHERWISE ON DRAWINGS. WHERE A CFM IS NOT INDICATED AT A RETURN GRILLE, BASE THE DUCT SIZE ON THE SUPPLY CFM IN THE SAME ROOM.

SUPPLY CFM	RETURN/EXHAUST CFM	ROUND DUCT SIZE	RECTANGULAR DUCT SIZE
0 - 100	0 -100	6"	6x6
101 - 200	100 - 175	8"	10x6
201 - 380	176 - 320	10"	14x6
381 - 600	321 - 520	12"	16x8
601 - 900	521 - 775	14"	22x8
901 - 1200	776 - 1100	16"	22x10
1201 - 1700	1101 - 1500	18"	22x12

2. FOR ACOUSTICAL REASONS, PROVIDE A MINIMUM OF 6 FEET AND A MAXIMUM OF 8 FEET OF FLEXIBLE DUCT WITH AT LEAST 90 DEGREES OF BEND, WHERE FLEX DUCT IS INDICATED ON THE DRAWINGS ABOVE LAY IN CEILINGS. FOR RETURN AIR GRILLES, IF A MINIMUM OF 6 FEET AND A MAXIMUM OF 8 FEET OF FLEXIBLE DUCT WITH AT LEAST 90 DEGREES OF BEND IS PROVIDED AT GRILLES WHERE NOT INDICATED, ACOUSTIC LINING IN ADJACENT TRUNK RETURN DUCTS MAY BE DELETED WHERE SHOWN EXCEPT WITHIN 12 FEET OF A RETURN FAN.

3. PROVIDE A MINIMUM OF 12" OF STRAIGHT (VERTICAL) DUCT ABOVE CEILING DIFFUSERS OR FURNISH DIFFUSER CAN, SEE DETAIL SHEETS.

4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION OF DIFFUSERS AND GRILLES WITH OTHER CEILING ELEMENTS. CONTRACTOR SHALL VERIFY CEILING TYPES IN ALL AREAS AND CONFIRM BORDER STYLES PRIOR TO ORDERING GRILLES, REGISTERS, AND DIFFUSERS.

5. ENGINEER-APPROVED SMALLER GRILLE MAY BE USED IN ROOMS NEEDING LESS THAN 300 CFM.

TERMINAL UNIT TYPE SCHEDULE

INLET SIZE	SETPOINT RANGE		DESIGN CFM	BRANCH INLET DUCT	OUTLET DUCT
	LOWEST MIN.	HIGHEST MAX.			
5	45	310	250	7	10x10
6	70	500	400	9	10x10
7	100	710	550	10	12x12
8	150	1000	700	12	12x12
9	170	1300	900	12	14x12
10	205	1435	1100	12	16x12
12	260	2185	1600	14	18x14
14	380	2745	2100	16	24x14
16	480	3730	2800	18	28x14
24x16	810	6435	4000	28x16	38x18

BASIS OF DESIGN: NAILOR SERIES 3000

NOTES:

1. PROVIDE FACTORY-INSTALLED CONTROLS FURNISHED BY CONTROLS SUBCONTRACTOR.

2. TERMINAL UNIT ASSEMBLY INCLUDES AIR VALVE, CONTROLLER, INTEGRAL SOUND ATTENUATOR (IF SCHEDULED), AND HEATING COIL (UNLESS NOTED OTHERWISE). TERMINAL UNIT SHALL BE ABLE TO OPERATE AT ANY POINT WITHIN THE SETPOINT RANGE INDICATED. INITIALLY SET MAXIMUM AND MINIMUM CFM'S AT VALUES INDICATED IN THE TERMNAL UNIT SCHEDULE. TERMINAL UNIT SHALL BE PROVIDED WITH FIBER-FREE LINER.

3. PROVIDE A MINIMUM OF 2 DUCT DIAMETERS AND A MAXIMUM OF 5 DUCT DIAMETERS OF STRAIGHT DUCT AT THE TERMINAL UNIT INLET, BASED ON INLET SIZE ABOVE. PROVIDE INLET DUCT, SIZED AS INDICATED ABOVE, FOR THE REMAINDER OF BRANCH DUCTWORK CONNECTING THE TERMINAL UNIT TO THE MEDIUM PRESSURE TRUNK DUCT. WHERE NECESSARY DUE TO SPACE RESTRICTIONS, PROVIDE DIFFERENT SHAPE DUCT WITH THE SAME CROSS SECTIONAL AREA. PROVIDE ALL NECESSARY TRANSITIONS.

4. PROVIDE OUTLET DUCT, SIZED AS INDICATED ABOVE, FROM TERMINAL OUTLET TO THE POINT DOWNSTREAM THAT A DIFFERENT SIZE DUCT IS INDICATED ON THE PLANS. WHERE NECESSARY DUE TO SPACE RESTRICTIONS, PROVIDE DIFFERENT SHAPE DUCT WITH THE SAME CROSS SECTIONAL AREA. PROVIDE ALL NECESSARY TRANSITIONS.

5. ALL TERMINAL HEATING COILS SHALL BE LOCATED AT THE TERMINAL DISCHARGE AND SHALL BE BASED ON 130 DEG F EWT AND 55 DEG F EAT. MAXIMUM COIL AIR PRESSURE DROP IS 0.35" WG, MAXIMUM COIL WATER PRESSURE DROP IS 5.0 FT.

6. PROVIDE HEATING WATER SUPPLY AND RETURN PIPING, SIZE INDICATED BELOW (BASED ON SCHEDULED FLOWS), WITH SPECIFIED AUTOMATIC BALANCING PACKAGE, FROM COIL TO HEATING MAINS.

0.5 - 1.5 GPM: 1/2"
1.6 - 3.5 GPM: 3/4"
3.6 - 7.0 GPM: 1"
7.1 - 10.0 GPM: 1-1/4"
10.1 - 20.0 GPM: 1-1/2"

FAN TERMINAL UNIT TYPE SCHEDULE

INLET SIZE	SETPOINT RANGE		DESIGN CFM	BRANCH INLET DUCT		
	LOWEST MIN.	HIGHEST MAX.				
4	25	215	150	6		
5	45	310	250	7		
6	70	500	400	9		
8	150	1000	700	10		
10	205	1435	1100	12		
12	325	2150	1600	14		
14	400	3060	2100	16		
16	625	4050	2800	18		
18	770	4985	3500	20		

FAN TYPE	UNIT SIZE	GPM	MOTOR HP	FAN AIRFLOW RANGE		OUTLET DUCT
				MIN	MAX	
PARALLEL	2	2.67	1/10	190	600	16x12
	3	3.33	1/4	450	950	16x15
	5	4.00	1/2	750	1775	24x15
	6	SEE BELOW	3/4	1175	2050	28x18
SERIES	3	3.33	1/2	200	1100	16x12
	5	4.00	3/4	500	2025	24x14

BASIS OF DESIGN: NAILOR SERIES 35N (PARALLEL FAN) AND SERIES 35S (SERIES FAN)

NOTES:

1. PROVIDE FACTORY-INSTALLED CONTROLS FURNISHED BY CONTROLS SUBCONTRACTOR.

2. TERMINAL UNIT ASSEMBLY INCLUDES AIR VALVE, CONTROLLER, FAN, INTEGRAL SOUND ATTENUATOR (IF SCHEDULED), AND HEATING COIL (UNLESS NOTED OTHERWISE). TERMINAL UNIT SHALL BE ABLE TO OPERATE AT ANY POINT WITHIN THE SETPOINT RANGE INDICATED. INITIALLY SET MAXIMUM AND MINIMUM CFM'S AT VALUES INDICATED IN THE TERMNAL UNIT SCHEDULE. TERMINAL UNIT SHALL BE PROVIDED WITH FIBER-FREE LINER.

3. PROVIDE A MINIMUM OF 2 DUCT DIAMETERS AND A MAXIMUM OF 5 DUCT DIAMETERS OF STRAIGHT DUCT AT THE TERMINAL UNIT INLET, BASED ON INLET SIZE ABOVE. PROVIDE INLET DUCT, SIZED AS INDICATED ABOVE, FOR THE REMAINDER OF BRANCH DUCTWORK CONNECTING THE TERMINAL UNIT TO THE MEDIUM PRESSURE TRUNK DUCT. WHERE NECESSARY DUE TO SPACE RESTRICTIONS, PROVIDE DIFFERENT SHAPE DUCT WITH THE SAME CROSS SECTIONAL AREA. PROVIDE ALL NECESSARY TRANSITIONS.

4. PROVIDE OUTLET DUCT, SIZED AS INDICATED ABOVE, FROM TERMINAL OUTLET TO THE POINT DOWNSTREAM THAT A DIFFERENT SIZE DUCT IS INDICATED ON THE PLANS. WHERE NECESSARY DUE TO SPACE RESTRICTIONS, PROVIDE DIFFERENT SHAPE DUCT WITH THE SAME CROSS SECTIONAL AREA. PROVIDE ALL NECESSARY TRANSITIONS.

5. ALL TERMINAL HEATING COILS SHALL BE LOCATED AT THE TERMINAL DISCHARGE AND SHALL BE BASED ON 130 DEG F EWT, 62DEG F EAT AND DELIVER 86DEG F IF OPERATED AT THE "DESIGN CFM" INDICATED ABOVE. MAXIMUM COIL AIR PRESSURE DROP IS 0.39" WG, MAXIMUM COIL WATER PRESSURE DROP IS 5.0 FT. EXCEPTIONS LISTED BELOW.

- TU1-A-07: 3400 CFM, 88 LAT,0.60"APD, 12.0 GPM
- TU1-D-03: 3400 CFM, 88 LAT,0.60"APD, 12.0 GPM
- TU1-D-04: 0.60"APD OK, 5.33 GPM
- TU2-D-02:84DEG F LAT OK, 7.33 GPM. 9.5' WPD
- TU2-D-03: 84DEG F LAT OK, 7.33 GPM. 9.5' WPD
- ALL OTHER UNIT SIZE 6 TERMINALS: 7.33 GPM, 9.5' WPD

6. PROVIDE HEATING WATER SUPPLY AND RETURN PIPING, SIZE INDICATED BELOW (BASED ON SCHEDULED FLOWS), WITH SPECIFIED AUTOMATIC BALANCING PACKAGE, FROM COIL TO HEATING MAINS.

0.5 - 1.5 GPM: 1/2"
1.6 - 3.5 GPM: 3/4"
3.6 - 7.0 GPM: 1"
7.1 - 10.0 GPM: 1-1/4"
10.1 - 20.0 GPM: 1-1/2"

ENERGY RECOVERY UNIT SCHEDULE

MARK	MANUFACTURER	AIRFLOWS (CFM)		SUPPLY PERFORMANCE			EXHAUST PERFORMANCE			FROST CONTROL COIL	HEAT WHEEL EXHAUST AIR SIDE		HEAT WHEEL SUPPLY AIR SIDE			PRE FILTERS*				OPERATING
		SUPPLY	EXHAUST	ESP (IN. WG)	MAX. BHP	VFD	ESP (IN. WG)	MAX. BHP	VFD	KW	ENTERING DB (DEG F)	ENTERING WB (DEG F)	ENTERING DB (DEG F)	ENTERING WB (DEG F)	LEAVING AIR DB (DEG F)	MERV	FPM	IPD (IN. WG)	FPD (IN. WG)	WEIGHT (LBS)
ERV-1	MICROMETL	8000	8000	1.35	7.80	YES	2.25	10.90	YES	55	72	54	-31	-31	55.8	8	250	0.25	0.75	4,500

* FILTER PRESSURE DROP MAY BE CONSIDERED PART OF EXTERNAL STATIC PRESSURE.

SINGLE POINT POWER CONNECTION: 460 V, 3 PHASE, 88 FLA.

CABINET UNIT HEATER SCHEDULE

MARK	LOCATION	MAKE	MODEL	ARRANGEMENT	HEATING COIL	HOT WATER DATA				FAN		FAN MOTOR			WGT.	FILTERS		REMARKS
					(MBH)	GPM	PD (FT)	EWT	LWT	CFM	RPM	HP	AMP	VOLTS/PH		QTY	SIZE	
CUH-1	1000 NORTH STAIRS/VEST	SIGMA	SFF06	R-31	23.2	1.6	0.7	130	100	600	1075	1/10	1.9	120/1	125	1	7-1/2"x32"	WALL RECESSED UNIT
CUH-2	1001 EAST STAIR	SIGMA	SFF06	R-31	23.2	1.6	0.7	130	100	600	1075	1/10	1.9	120/1	125	1	7-1/2"x32"	WALL RECESSED UNIT

AIR HANDLING UNIT SCHEDULE

MARK	BASIS OF DESIGN		FAN PERFORMANCE												COOLING PERFORMANCE - DX COOLING COIL									ELECTRICAL			OPERATING WEIGHT (LBS)	REMARKS
	MANUFACTURER	MODEL	SUPPLY						EXHAUST						EDB	EWB	AAT	NET SENSIBLE (MBH)	NET TOTAL (MBH)	EER	IEER/SEER	REFRIGERANT**		MCA	MOCP	VOLTS/PH		
			CFM	MIN OA*	ESP (IN WG)	FRPM	DRIVE	HP	CFM	ESP (IN WG)	FRPM	DRIVE	HP									TYPE	MAX. AMOUNT (LBS)					
AHU-1	TRANE	INTELLIPAK SXHJ090	36000	3700	2.50	1150	BELT	50	28300	0.75	470	BELT	20	80.0	67.0	85.0	787.3	1058.1	9.8	-	R-410A	178.0	255.9	300	460/3	17500	
AHU-2	TRANE	INTELLIPAK SXHJ090	36000	3700	2.50	1150	BELT	50	28300	0.75	470	BELT	20	80.0	67.0	85.0	787.3	1058.1	9.8	-	R-410A	178.0	255.9	300	460/3	17500	
AHU-3	TRANE**	PRECEDENT THC060	2000	200	0.75	-	BELT	1	1800	-	-		1/3	80.0	67.0	85.0	47.1	65.5	-	15.0	R-410A	12.0	16.8	25	460/3	1000	1

NOTES:

* THE MINIMUM OUTSIDE AIR LISTED FOR AHU-1 AND AHU-2 IS THE MINIMUM OUTSIDE AIR INTRODUCED AT THE UNIT, THERE IS AN ADDITIONAL 4,000 CFM OF OUTSIDE INTRODUCED INTO THE RETURN AIR FROM THE ENERGY RECOVERY UNIT (ERV-1) WHEN NEEDED BRINGING TOTAL OSA UP TO 7,700 CFM.

** TO MEET LEED GOAL, REFRIGERANT QUANTITY CANNOT EXCEED VALUES NOTED.

1. PROVIDE WITH C02 SENSOR KIT ACCESSORY

STATE OF ALASKA
49 TH
DON M. IVERSON
July 19,2011
ME 8432
REGISTERED PROFESSIONAL ENGINEER

kpb architects
nbbj
223 Yale Avenue North Seattle, WA 98109
(206) 223-5555 Fax (206) 621-2300

NEESER CONSTRUCTION, INC.
2501 Blueberry Road
Office (907) 276-1058
Anchorage, Alaska 99503
Fax (907) 276-8533

COFFMAN ENGINEERS

Southcentral Foundation
Valley Native Primary Care Center
Wasilla, Alaska

REVISION SCHEDULE		
#	DESCRIPTION	DATE

JOB NO. - NCI	11101
JOB NO. - kpb	A9061.01
JOB NO. - nbbj	100748.00
DATE	09/16/2011
DRAWN	GSR
REVIEWED	JJS,SL

SHEET NAME
MECHANICAL EQUIPMENT SCHEDULES

SHEET NO.
M5.05

FINAL SUBMITTAL

FULL SIZE: 22"x34" - HALF SIZE: 11"x17"