

FAN SCHEDULE															BASIS OF DESIGN: STROBIC AIR/ GREENHECK							
FAN NO.	LOCATION	AREA OR SYSTEM SERVED	SYSTEM EXHAUST CFM	INLET PRESS. (IN.WG)	TOTAL FAN CFM	TOTAL CFM EXHAUST	OUTLET VELOCITY	RPM	FAN BHP	FAN TYPE	DRIVE	CLASS	DISCHARGE	MOTOR DATA				EMERG. POWER (YES OR NO)	APPROX. WEIGHT (LBS)	REMARKS	MODEL	
														HP	VOLT/PH	NO. OF SPEEDS	MOTOR WINDING (SINGLE/DOUBLE)					
LEF-1	ROOF	NORTH LABS	8,000	4.0	9,880	19,760	4,990	1,770	13.9	MIXED FLOW	DIRECT	-	UPBLAST	15	460/3	VFD	-	YES	30,000	HEAT RECOVERY OPTION	STROBIC AIR TS1L150B18	
LEF-2	ROOF	NORTH LABS	8,000	4.0	9,880	19,760	4,990	1,770	13.9	MIXED FLOW	DIRECT	-	UPBLAST	15	460/3	VFD	-	YES		HEAT RECOVERY OPTION	STROBIC AIR TS1L150B18	
LEF-3	ROOF	NORTH LABS	8,000	4.0	9,880	19,760	4,990	1,770	13.9	MIXED FLOW	DIRECT	-	UPBLAST	15	460/3	VFD	-	YES		HEAT RECOVERY OPTION, STANDBY	STROBIC AIR TS1L150B18	
LEF-4	ROOF	SOUTH LABS	15,500	4.0	18,349	28,991	3,398	1,170	18.1	MIXED FLOW	DIRECT	-	UPBLAST	20	460/3	VFD	-	YES	32,000	HEAT RECOVERY OPTION	STROBIC AIR TS3L200B12	
LEF-5	ROOF	SOUTH LABS	15,500	4.0	18,349	28,991	3,398	1,170	18.1	MIXED FLOW	DIRECT	-	UPBLAST	20	460/3	VFD	-	YES		HEAT RECOVERY OPTION	STROBIC AIR TS3L200B12	
LEF-6	ROOF	SOUTH LABS	15,500	4.0	18,349	28,991	3,398	1,170	18.1	MIXED FLOW	DIRECT	-	UPBLAST	20	460/3	VFD	-	YES		HEAT RECOVERY OPTION, STANDBY	STROBIC AIR TS3L200B12	
LEF-7	ROOF	ANIMALS LAB	1,800	3.0	2,274	4,548	4,548	1,770	1.9	MIXED FLOW	DIRECT	-	UPBLAST	3	460/3	VFD	-	YES	5,200	HEAT RECOVERY OPTION	STROBIC AIR BS00218	
LEF-8	ROOF	ANIMALS LAB	1,800	3.0	2,274	4,548	4,548	1,770	1.9	MIXED FLOW	DIRECT	-	UPBLAST	3	460/3	VFD	-	YES		HEAT RECOVERY OPTION, STANDBY	STROBIC AIR BS00218	
RF-1	PENTHOUSE MER	AHU-4	25,200	2.7	N/A	N/A	-	961	15.6	MIXED FLOW	BELT	I	INLINE	20	460/3	VFD	-	NO	1,500	-	GREENHECK QE1-36-1	
RF-2	PENTHOUSE MER	AHU-5	27,000	3.0	N/A	N/A	-	964	20.3	AIRFOIL	BELT	II	UPBLAST	25	460/3	VFD	-	NO	1,400	-	GREENHECK 40 AFSW-41	
EF-1	FIRST FLOOR MER	FIRST FLOOR MER	1,850	0.3	N/A	N/A	-	1,515	0.4	CENTRIFUGAL	BELT	I	INLINE	1/2	460/3	1	-	YES	125	-	GREENHECK BSQ-130	
EF-2	FIRST FLOOR MER	FIRST FLOOR MER	1,600	0.3	N/A	N/A	-	1,563	0.4	CENTRIFUGAL	BELT	I	INLINE	1/2	460/3	1	-	YES	125	-	GREENHECK BSQ-120	
EF-3	MAIN ELECT. ROOM	MAIN ELECT. ROOM	5,500	0.3	N/A	N/A	-	1,007	1.3	CENTRIFUGAL	BELT	I	SIDE	1-1/2	460/3	1	-	NO	350	SIDE DISCHARGE	GREENHECK BSQ-200	
EF-4	EMERGENCY DIST.	EMERGENCY DIST.	500	0.4	N/A	N/A	-	1,270	0.1	CENTRIFUGAL	BELT	I	INLINE	1/4	120/1	1	-	YES	100	-	GREENHECK BSQ-90	
EF-5	ROOF	NORTH TOILETS	2,200	1.25	N/A	N/A	-	1,680	0.9	CENTRIFUGAL	BELT	I	UPBLAST	1-1/2	460/3	1	-	NO	100	-	GREENHECK CUBE-141	
EF-6	ROOF	SOUTH TOILETS	400	1.25	N/A	N/A	-	1,929	0.2	CENTRIFUGAL	BELT	II	UPBLAST	1/3	120/1	1	-	NO	100	-	GREENHECK CUBE-101HP	
EF-7	ROOF	PENTHOUSE MER	17,500	0.25	N/A	N/A	-	677	4.3	CENTRIFUGAL	BELT	I	UPBLAST	5	460/3	VFD	-	NO	350	-	GREENHECK CUBE-360	
EF-8	ROOF	PENTHOUSE MER	17,500	0.25	N/A	N/A	-	677	4.3	CENTRIFUGAL	BELT	I	UPBLAST	5	460/3	VFD	-	NO	350	-	GREENHECK CUBE-360	
EF-9	ROOF	ELECTRICAL CLOSETS	500	0.75	N/A	N/A	-	1,535	0.16	CENTRIFUGAL	BELT	I	DOWN-BLAST	1/4	120/1	1	-	YES	200	-	GREENHECK GB-081	
EF-10	ROOF	ENG. WORKSHOP	1,800	1.5	N/A	N/A	-	1,562	0.7	UTILITY	BELT	I	UPBLAST	3/4	460/3	1	-	NO	250	-	GREENHECK SWB-115	

- NOTES:
1. PROVIDE ROOF FANS WITH CURBS, BIRD SCREEN, DAMPERS.
2. PROVIDE FOR EACH FAN (WHERE APPLICABLE): MOTOR HOOD, ACCESS DOOR, PLUGGED DRAIN, SUPPORT ANGLES AND RODS, SPRING ISOLATORS
3. FOR EACH CABINET FAN PROVIDE SUPPORTS, SPRING ISOLATORS, ACCESS DOOR

AC SPLIT AIR CONDITIONING UNIT															BASIS OF DESIGN: MITSUBISHI/ATS									
UNIT NO.	LOCATION	AREA SERVED	SUPPLY FAN DATA			AIR DATA		COOLING DATA				HEATING DATA		FILTER DATA		ELETRICAL DATA					REFRIG.	MODEL	APPROX. WEIGHT (LBS.)	NOTES
			TOTAL CFM	MIN. EXT. S.P. (IN.W.G.)	MOTOR HP	ENT.DB (F°)	ENT.WB (F°)	SENS. CAPAC. BTUH	TOTAL CAPAC. BTUH	MAX. FACE VEL. (FPM)	MIN. ROWS DEEP	TOTAL CAPAC. BTUH	OUTDOOR TEMP. (F°)	TYPE	IN. THICK	(VOLT/ PH)	FLA	MCA	MFS	EMERGENCY POWER (YES OR NO)				
AC-1	E.M.R.	E.M.R.	955 HI-WET	DUCT-LESS	200 WATTS	75	50% R.H.	28,980	42,000	—	—	COOLING ONLY	WASH-ABLE	1	208/1	0.97	2.0	15	YES	R-410A	MITSHUBISHI PCA-A42KA	85	POWERED BY OUTDOOR UNIT	
AC-2	1ST FLOOR	PHYSICS IMAG. G114	1,415	0.3	1/2	72	50% R.H.	28,500	32,320	505	3	COOLING ONLY	THROW-AWAY	4	208/1	3.8	4.8	15	NO	R-407C	ATS OHS-040-AHU	165	—	
AC-3	1ST FLOOR	MR/1-X-RAY G114A	500	0.3	1/4	72	50% R.H.	10,405	12,000	240	3	COOLING ONLY	THROW-AWAY	4	208/1	8.8	11.5	15	NO	R-407C	ATS OHS-012-AR	160	—	
AC-4	4TH FLOOR	LASER G427A	500	0.3	1/4	72	50% R.H.	10,405	12,000	240	3	COOLING ONLY	THROW-AWAY	4	208/1	8.8	11.5	15	NO	R-407C	ATS OHS-012-AR	160	—	
AC-5	4TH FLOOR	IR G427B	500	0.3	1/4	72	50% R.H.	10,405	12,000	240	3	COOLING ONLY	THROW-AWAY	4	208/1	8.8	11.5	15	NO	R-407C	ATS OHS-012-AR	160	—	
AC-6	4TH FLOOR	NMR G427C	750	0.3	1/4	72	50% R.H.	15,100	17,160	360	3	COOLING ONLY	THROW-AWAY	4	208/1	2.7	3.4	15	NO	R-407C	ATS OHS-018-AHU	120	—	
AC-7 THRU 10	DATA CLOSETS	DATA CLOSETS	400	DUCT-LESS	175 WATTS	75	50% R.H.	8,880	12,000	—	—	COOLING ONLY	WASH-ABLE	1	208/1	0.76	1.0	15	NO	R-410A	MITSHUBISHI MSY-GE12NA	30	POWERED BY OUTDOOR UNIT	
AC-11	1ST FLOOR	PHYSICS OPTICS G113	1,415	0.3	1/2	72	50% R.H.	28,500	32,320	505	3	COOLING ONLY	THROW-AWAY	4	208/1	3.8	4.8	15	NO	R-407C	ATS OHS-040-AHU	165	—	
AC-12	1ST FLOOR	MODERN PHYSICS G120	1,415	0.3	1/2	72	50% R.H.	28,500	32,320	505	3	COOLING ONLY	THROW-AWAY	4	208/1	3.8	4.8	15	NO	R-407C	ATS OHS-040-AHU	165	—	

- NOTES:
1. NOTES FOR AC-1 & 7-10:
— INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT VIA LINE VOLTAGE WIRING, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE AUTO RESTART AFTER POWER FAILURE.
3. PROVIDE CONDENSATE PUMP ACCP-A FOR EACH. REFER TO SCHEDULE FOR ADDITIONAL INFORMATION.
4. AC-2,3,4,5,6 TO BE PROVIDED WITH HOT GAS BYPASS
5. PROVIDE WIRE CONTROLLER FOR AC-1 & 7-10.
6. AC-2,3,4,5,6,11,12 TO BE BELT DRIVE TYPE.
6. AC-3 TO BE PROVIDED WITH COMPRESSOR SOUND JACKET.

ACC SPLIT SYSTEM AIR COOLED CONDENSING UNIT															BASIS OF DESIGN: MITSUBISHI/TRANE/ATS		NOTES:
UNIT NO.	LOCATION	UNIT SERVED	CONDENSER DATA					ELECTRICAL DATA							APPROX. WEIGHT (LBS.)	NOTES	
			OUT-DOOR DESIGN DB (°F)	MAX. COND. TEMP. (°F)	TOTAL CFM	NO. OF MOTORS	MOTOR HP (EACH)	ELECT. DATA (VOLT/ PH)	NO. OF COMP.	FLA	MCA	MFS	REFRIG.	MODEL			
ACC-1	1ST FLR ROOF	AC-1	90	105	3,530	2	86 WATTS	208/1	1	20.0 RLA	26	40	R-410A	MITSHUBISHI PUY-A42NHA3	260	UNIT POWERS INDOOR UNIT	
ACC-2	ROOF	AC-2	90	95	2,000	1	1/2	208/3	1	12.7	15.9	25	R-407C	ATS OHS-040-RCU-0	180	—	
ACC-3	ROOF	AC-3	90	95	2,575	1	0.35	208/1	1	2.5	3.1	15	R-407C	ATS SCS-012-SAA	75	—	
ACC-3-1	ROOF	AHU-3-1	90	95	9,600	2	4.5	460/3	2	21.7	24.1	30	R-410A	TRANE TTA120	500	—	
ACC-3-2	ROOF	AHU-3-2	90	95	9,600	2	4.5	460/3	2	21.7	24.1	30	R-410A	TRANE TTA120	500	—	
ACC-4	ROOF	AC-4	90	95	2,575	1	0.35	208/1	1	2.5	3.1	15	R-407C	ATS SCS-012-SAA	75	—	
ACC-5	ROOF	AC-5	90	95	2,575	1	0.35	208/1	1	2.5	3.1	15	R-407C	ATS SCS-012-SAA	75	—	
ACC-6	ROOF	AC-6	90	95	1,400	1	1/3	208/1	1	11.9	17.5	25	R-407C	ATS OHS-018-RCU-0	140	—	
ACC-7 THRU 10	ROOF	AC-7 THRU 10	90	105	1,230	1	100 WATTS	208/1	1	6.6	12	15	R-410A	MITSHUBISHI MU-Y-GE12NA	80	MULTIPLE UNITS, SEE DRAWINGS	
ACC-11	ROOF	AC-11	90	95	2,000	1	1/2	208/3	1	12.7	15.9	25	R-407C	ATS OHS-040-RCU-0	180	—	
ACC-12	ROOF	AC-12	90	95	2,000	1	1/2	208/3	1	12.7	15.9	25	R-407C	ATS OHS-040-RCU-0	180	—	

1. NOTES FOR ACC-1 & 7-10:

- INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT VIA LINE VOLTAGE WIRING, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

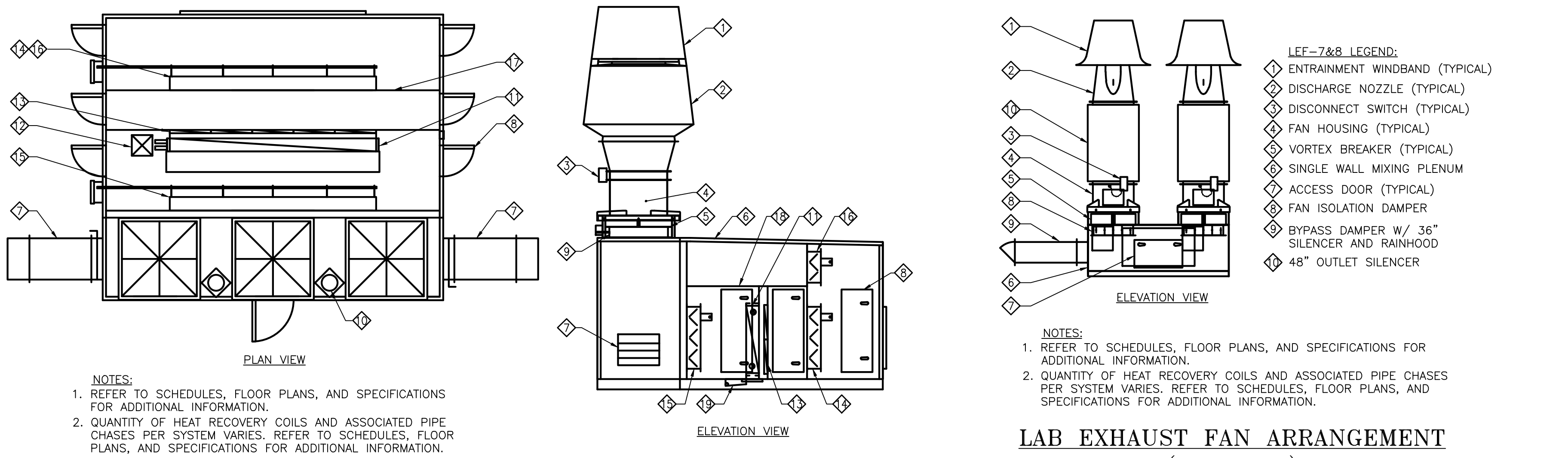
2. PROVIDE CONDENSING-EVAPORATOR UNIT INTERLOCK WIRING AND CONDUIT FOR ALL UNITS.

3. ACC-2,3,3-1,3-2,4,5,6,11,12 TO BE PROVIDED WITH HOT GAS BYPASS

4. PROVIDE REQUIRED ACCESSORIES FOR COND. UNIT OPERATION DOWN TO 0°F FOR ALL UNITS.

5. PROVIDE MICROPROCESSOR CONTROLS FOR ACC-3-1 AND ACC-3-2.









- NOTES:
1. NOTES FOR ACC-1 & 7-10:
— INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT VIA LINE VOLTAGE WIRING, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE CONDENSING-EVAPORATOR UNIT INTERLOCK WIRING AND CONDUIT FOR ALL.
3. ACC-2,3,3-1,3-2,4,5,6,11,12 TO BE PROVIDED WITH HOT GAS BYPASS
4. PROVIDE REQUIRED ACCESSORIES FOR COND. UNIT OPERATION DOWN TO 0°F FOR ALL
5. PROVIDE MICROPROCESSOR CONTROLS FOR ACC-3-1 AND ACC-3-2.



LAB EXHAUST FAN ARRANGEMENT
(TYPICAL FOR LEF-1,2,3 & LEF-4,5,6)
(NOT TO SCALE)

FCU			FAN COIL UNIT SCHEDULE															BASIS OF DESIGN: INTERNATIONAL ENVIRONMENTAL						
UNIT TYPE	LOCATION	AREA SERVED	AIR DATA		WATER DATA			COOLING DATA					HEATING DATA				MOTOR DATA				TYPE AND COIL ARRANGEMENT	MODEL	REMARKS	
			CFM HIGH SPEED	HW MAX. GPM	MAX. P.D. (FT.)	CHW MAX. GPM	MAX. P.D. (FT.)	TOTAL BTU/ HR	SENS. BTU/ HR	ENT. WATER TEMP. (°F)	LVG. WATER TEMP. (°F)	ENT. AIR °F		TOTAL BTU/ HR	ENT. WATER TEMP. (°F)	LVG. WATER TEMP. (°F)	ENT. AIR DB (°F)	MOTOR HP	AMPS	NO. OF SPEEDS				VOLT/ PH
FCU-1	1ST FLOOR	LOBBY	500	1.4	10	2.5	10	25,500	18,800	43	55	80	67	13,750	180	150	70	1/6	2.5	3	115/1	4 PIPE/ HORIZ.	CPY-08	.25" ESP
FCU-2	1ST FLOOR	LOBBY	900	2.5	10	3.5	10	33,300	24,000	43	55	80	67	24,750	180	150	70	1/4	4.5	3	115/1	4 PIPE/ HORIZ.	HXY-10	.25" ESP

- NOTES:
1. PROVIDE SECONDARY DRIP PAN WITH WATER SENSOR. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
2. PROVIDE ANGLE SUPPORTS, RODS, SPRING ISOLATORS.
3. PROVIDE (3) SETS OF 1\"/>

AIR OUTLETS AND INLETS SCHEDULE										BASIS OF DESIGN: TITUS	
TYPE DESIGNATION	SERVICE	SPECIFICATION TYPE	MAX CFM	FACE SIZE (INCHES)	NECK SIZE (INCHES)	SLOT SIZE (INCHES)	MODEL NUMBER	NOISE CRITERIA (NC) AT MAX CFM	HORIZONTAL THROW (FEET)	REMARKS	
	CEILING DIFFUSER	CD	0-120 121-200	12x12	6"ø 8"ø	N/A	TITUS OMNI	10 10	7 9	-	
	CEILING DIFFUSER	CD	0-200 201-320 321-450 451-600 601-850	24x24	8"ø 10"ø 12"ø 14"ø 15"ø	N/A	TITUS OMNI	10 13 15 16 21	8 11 13 15 20	-	
	CEILING RETURN/ EXHAUST REGISTER	CR	0-990	22x22	10x12	N/A	TITUS 360RRL	20	-	-	
	CEILING RETURN/ EXHAUST REGISTER	CR	0-600 601-1000	24x24 24x24	24x24 24x24	N/A	TITUS 350 RL	10 10	-	-	
	LABORATORY SUPPLY	CD	0-300 301-600	24x24	8"ø 10"ø	N/A	TITUS TRITEC-AL	29 37	6-SPREAD 9-SPREAD	RADIAL AIR DIFFUSION DIFFUSER	
	LABORATORY SUPPLY	CD	0-500 501-1000	48x24	10"ø 12"ø	N/A	TITUS TRITEC-AL	26 44	9-SPREAD 11-SPREAD	RADIAL AIR DIFFUSION DIFFUSER	
	LINEAR SLOT DIFFUSER	LD	AS NOTED ON PLANS	AS NOTED ON PLANS	N/A	AS NOTED ON PLANS	TITUS FLOWBAR	35 MAX	-	PROVIDE ACOUSTICALLY LINED SHEET METAL PLENUM (SEE NOTE 2)	
	LINEAR SLOT RETURN	LR	AS NOTED ON PLANS	AS NOTED ON PLANS	N/A	AS NOTED ON PLANS	TITUS FLOWBAR	35 MAX	-	PROVIDE ACOUSTICALLY LINED SHEET METAL PLENUM (SEE NOTE 2)	