FAN	SCHEDULE											
MARK	MANUFACTURER	MODEL	CFM	E.S.P. (in WC)	MOTOR HP / RPM	FAN RPM	VOLT/PHASE	DRIVE	AREA SERVED	WEIGHT (LBS.)	TYPE	NOTES
SF-1	GREENHECK	CSP-A	150	0.125"	1/4 / 1725	1400	120/1	DIRECT	ELECTRICAL ROOM	16	INLINE	(1)-(5)

(1) PROVIDE SOLID STATE SPEED CONTROL.

(2) FAN SHALL OPERATE CONTINUOUSLY.

(3) SUSPEND FAN FROM CEILING STRUCTURE USING 4 THREADED RODS AND SPRING ISOLATORS. FAN SHALL BE MOUNTED AS HIGH AS POSSIBLE, BUT NO LOWER THAN APPROXIMATELY 7'-0" A.F.F.

(4) COORDINATE FAN LOCATION WITH LIGHTING. FAN SHALL BE RELOCATED AS NECESSARY TO ACCOMMODATE LIGHTING.

(5) PROVIDE INTERNAL ELECTRICAL DISCONNECT WITH OVERLOAD PROTECTION.

AIR I	DISTRIBUTIO	ON SCHEE	ULE					
MARK	MANUFACTURER	MODEL	TYPE	FACE SIZE	NECK SIZE	FINISH	ACCESSORIES	NOTES
Α	TITUS	DL-SV	SUPPLY DRUM LOUVER	23 x 14	20 x 12	ALUMINUM	SURFACE MOUNT	(1)(2)(3)
В	TITUS	300RS	SUPPLY GRILLE	26 x 12<2>	24 x 10<2>	ALUMINUM	SURFACE MOUNT	

(1) REFER TO DRAWINGS FOR ADJUSTMENTS REQUIRED TO ACHIEVE DESIRED DIRECTION OF AIRFLOW.

(2) DRUM LOUVER AND FRAME SHALL BE CONSTRUCTED OF ALUMINUM.

(3) REFER TO MOUNTING DETAIL.

ELEC	TRIC HEATER	RSCHE	DULE									
				DUCT SIZE			HEATING SECTION		ELECTRICAL			
							CAPACITY				UNIT	
MARK	MANUFACTURER	MODEL	CONFIGURATION	WIDTH	HEIGHT	CFM	(KW)	STAGES	VOLTS/HZ/PH	FLA	WT (LBS)	NOTES
EDH-1	INDEECO	TFXU	FINNED TUBE	8"	8"	150	2	1	208/1/60		10	(1)(2)(3)(4)

NOTES:

(1) PROVIDE FINNED TUBULAR HEATER, SLIP-IN STYLE, FOR INSTALLATION IN INSULATED GALVANIZED DUCT.

(2) MOUNT HEATER MIN. 4 FT FROM FAN DISCHARGE CONNECTION AND MIN. 2 FT FROM OPEN END OF DUCT.

(3) PROVIDE CONTROL OPTION 'G' INCLUDING CONTROL TRANSFORMER, AIRFLOW SWITCH, CONTACTORS, AND DOOR INTERLOCK SWITCH.

(4) PROVIDE DUCT-MOUNTED SINGLE-STAGE THERMOSTAT SET AT 45F (ADJ) TO CONTROL HEATER.

LOU	/ER SCHEDU	ILE								
MARK	MANUFACTURER	MODEL	AIRFLOW (CFM)	MAX. A.P.D. (inWC)	SIZE (W"xH")	MIN. FREE AREA (SQ. FT.)	TYPE	MATERIAL	SERVICE	NOTES
LVR-1	GREENHECK	EDD601	8600	0.15	60x88	9.6	DOUBLE DRAINABLE BLADE	ALUMINUM	HEADWORKS BUILDING	NOTES

4	REFRIGERA	NT QU	ANTITIES			
ľ		REFRIG.	PROPOSED		ALLOWABLE	MAXIMUM ALLOWABLE
	ROOM	TYPE	REFRIG. (LBS.)	ROOM VOLUME(FT3)	AMOUNTS (LB/ 1000 FT3) (1)	WEIGHT (LBS.)
	ELECTRICAL CLOSET	R-410A	2.9 (2)	1641	10.0	16.40

(1) ALLOWABLE REFRIGERANT AMOUNTS BASED ON TABLE 1103.1, 2003 IMC.

(2) AMOUNT OF REFRIGERANT IN SYSTEMS DOES NOT EXCEEDS TOTAL AMOUNT ALLOWED BY 2003 IMC.

	FAN COIL UNIT MARK	DSFC-1
	THE COLD ONLY WHEN	20101
GENERAL DATA		
	ELEVATION (FT)	5437(2)
	ROOMS SERVED	ELECTRICAL CĽOSET
	TYPE	WALL MOUNTED
	MITSUBISHI MODEL NO.	MSZ-FE09NA
SUPPLY FAN DATA		
SUPPLI FAN DATA	AIRFLOW ACFM	381
	MCA	1
	F.L. AMPS	0.76
	T.L. AMIFS	0.76
COOLING COIL DATA		
	COOLING CAPACITY, BTUH	9,000
	REFRIGERANT	R-410A
	REFRIGERANT CHARGE, LBS	2.9
INIT DATA		
JNIT DATA	WIDTH, INCHES	37.5
	LENGTH, INCHES	10.13
	HEIGHT, INCHES	11.63
	WEIGHT, LBS.	27
	,	
NOTES:		(1)(3)(4)
	CONDENSING UNIT MARK	DSCU-1
GENERAL DATA	TYPE	AIR-COOLED HEAT PUM
	MITSUBISHI MODEL NO.	MUZ-FE09NA
	COOLING CAPACITY, BTUH	9,000
	AMBIENT AIR TEMPERATURE, *F	9,000
	SEER	26
ELECTRICAL DATA	JLLIN	
	VOLTS / PHASE	208 / 1
	MCA	12
	MOCP	15
INIT DATA		
JNIT DATA	WIDTH, INCHES	31.5
	LENGTH, INCHES	11.25
	HEIGHT, INCHES	
	WEIGHT, INCHES	21.63
	WEIGHT, LBS.	80
NOTES:		(2)(5)
NU ILJ.		■ (∠ハン)

(1) MOUNT FAN COIL ON WALL DIRECTLY ABOVE DOOR FRAME.

(2) PROVIDE 6" CONCRETE HOUSEKEEPING PAD WITH THICKENED EDGES ON ALL SIDES. PAD FOOTPRINT SHALL BE A MINIMUM OF 3" LARGER THAN UNIT FOOTPRINT IN ALL DIRECTIONS.

(3) PROVIDE WIRED THERMOSTAT/CONTROLLER.
(4) ROUTE CONDENSATE OUT EXTERIOR WALL AND SPILL ON GRADE. REFER TO FLOOR PLAN.
(5) REFER TO MANUFACTURER INSTALLATION MANUAL FOR MINIMUM DISTANCE TO LOCATE FROM WALL.

MARK	MAU-1
GENERAL DATA	^
ELEVATION (FT)	5437<2>
AREA SERVED (PRIMARY)	HEADWORKS BŬILDING
TYPE NAT. GAS FURNACES W/ 10-14"W.G. INPUT	HORIZ. DISCHARGE, 100% OUTSIDE AIR
MANUFACTURER	GREENHECK
MODEL	IGX-120-H32-II
SUPPLY FAN DATA	
AIRFLOW ACFM	12,000
EXT. STATIC PRESS. (in WC)	1.5
DRIVE TYPE	BELT
FAN MOTOR (HP)	15 HP, PREMIUM EFFICIENCY
HEATING SECTION DATA	STAINLESS STEEL HEAT EXCHANGER
ENT. AIR TEMP (deg F DB)	−15
LEAV. AIR TEMP (deg F DB)	57.4
HEAT OUTPUT (MBH)	751.7
GAS HEATING INPUT (MBH)	939.6
FURNACE SIZE	1200 MBH
GAS HEATING STAGES	MODULATING, 12:1, ELECTRONIC
EVAPORATIVE COOLING SECTION	NONE
MANUFACTURER	
MODEL	
ELECTRICAL DATA	
VOLTS/PHASE	460/3
MCA	28.3
ADDDOV LINIT WEIGHT (LDC)	7 000
APPROX. UNIT WEIGHT (LBS)	3,200
NOTES:	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)

(1) MAKEUP AIR UNIT SHALL BE MOUNTED ON STEEL STAND ON CONCRETE PAD. REFER TO PLANS AND DETAIL.

(2) PROVIDE WITH COMMERCIAL HEAT-ONLY THERMOSTAT, WITH DIGITAL DISPLAY. SET ROOM TEMPERATURE TO 55°F (ADJ.).

(3) MAKEUP AIR UNIT FAN SHALL RUN CONTINUOUSLY TO PRESSURIZE BUILDING WITH 100% OUTSIDE AIR.

(4) MAKEUP AIR UNIT SIZED FOR MIN. 12 AIR CHANGES PER HOUR IN PROCESS AREA. (5) EXTERIOR CABINET SHALL BE INSULATED DOUBLE WALL. COLOR SHALL BE SELECTED BY OWNER FROM

MANUFACTURER STANDARD COLOR PALETTE.

(6) CONTROL UNIT TO DISCHARGE AIR TEMPERATURE OF 95°F. (7) PROVIDE ROOM TEMPERATURE OVERRIDE OPTION TO CONTROL DISCHARGE AIR TEMPERATURE.

(8) PROVIDE LOUVERED UNIT INTAKE WITH MESH FILTERS.

(9) PROVIDE FILTER SECTION WITH 2" THROWAWAY FILTERS. (10) PROVIDE PANELED BOTTOM.

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(11) MAKEUP AIR UNIT STATUS SHALL BE MONITORED IN SCADA SYSTEM. PROVIDE COMMON FAULT CONTACT

OUTPUT FOR MAU COMMON FAULT SIGNAL TO SCADA SYSTEM. (12) PROVIDE CONTACTS FOR REMOTE FIRE SHUTDOWN OF UNIT FROM BUILDING SCADA SYSTEM.

MECHANICAL	SCHEDUL

MECHANICAL SCHEDULES AND DETAILS HEADWORKS BUILDING HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

LOWLIN	1 0011171111	14
DRAWN	JH	
DESIGNED	CF	ı
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DATE04	4/11/2011	ı
PROJECT NO	20166.352	ı
GMS FILE NO.	2599	ı

GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903



XREF FILENAME: G:\ BASE DWG: G:\ PLOT STYLE FILE: 1050C.ctb

FILENAME: \G:\LFMSDD\20166\310\MHW2\MHW2.dwg

REVISIONS						
0. 1	DATE	DESCRIPTION				
1	04/22/2011	ISSUED FOR VALUE ENGINEERING REVIEW AND COMMENT				
2	05/17/2011	ISSUED FOR PREPARATION OF CMO				
3	06/20/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (HEADWORKS BUILDING)				
4	07/11/2011	ISSUED FOR BUILDING PERMIT RESUBMITTAL TO PPRBD (HEADWORKS BUILDING)				
5	08/05/2011	ISSUED FOR CONSTRUCTION PER PPRBD BUILDING PERMIT #68510 (HEADWORKS BLDG)				
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