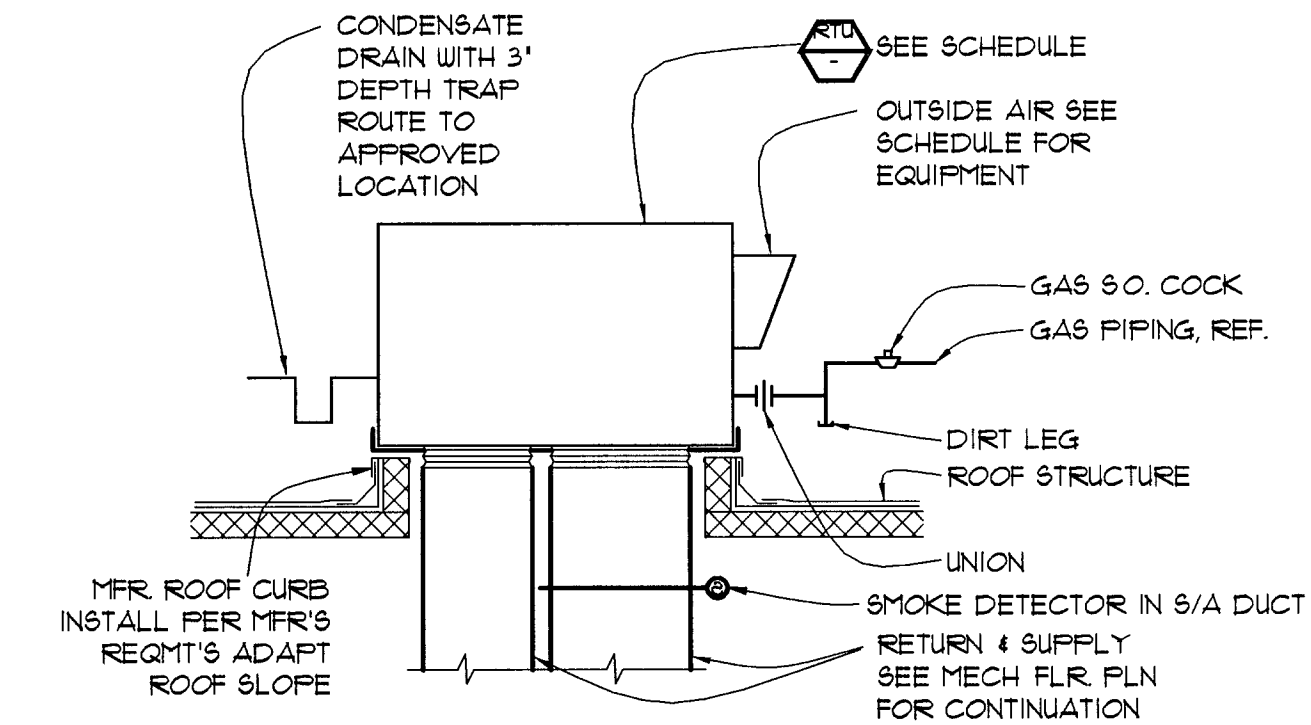
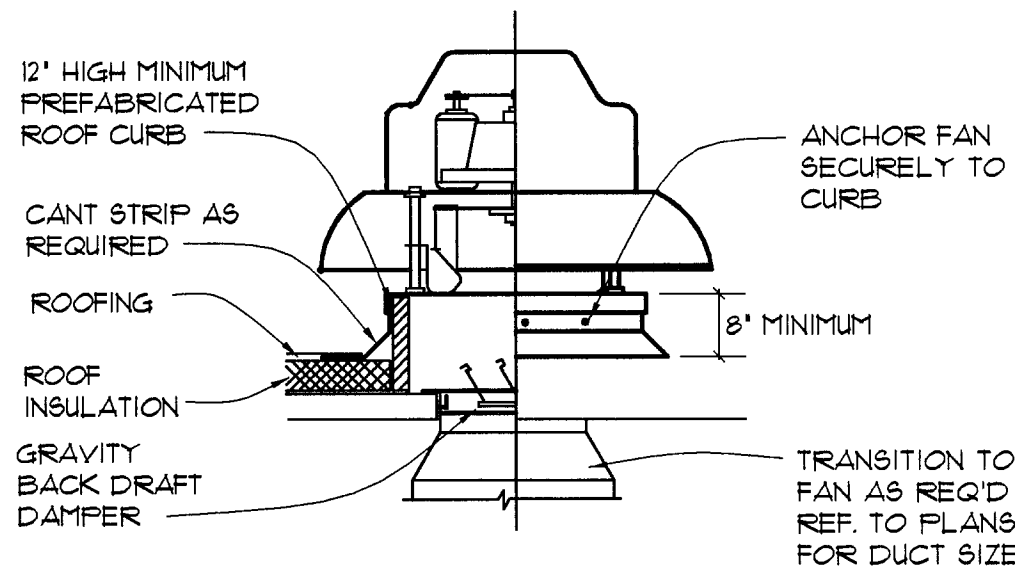


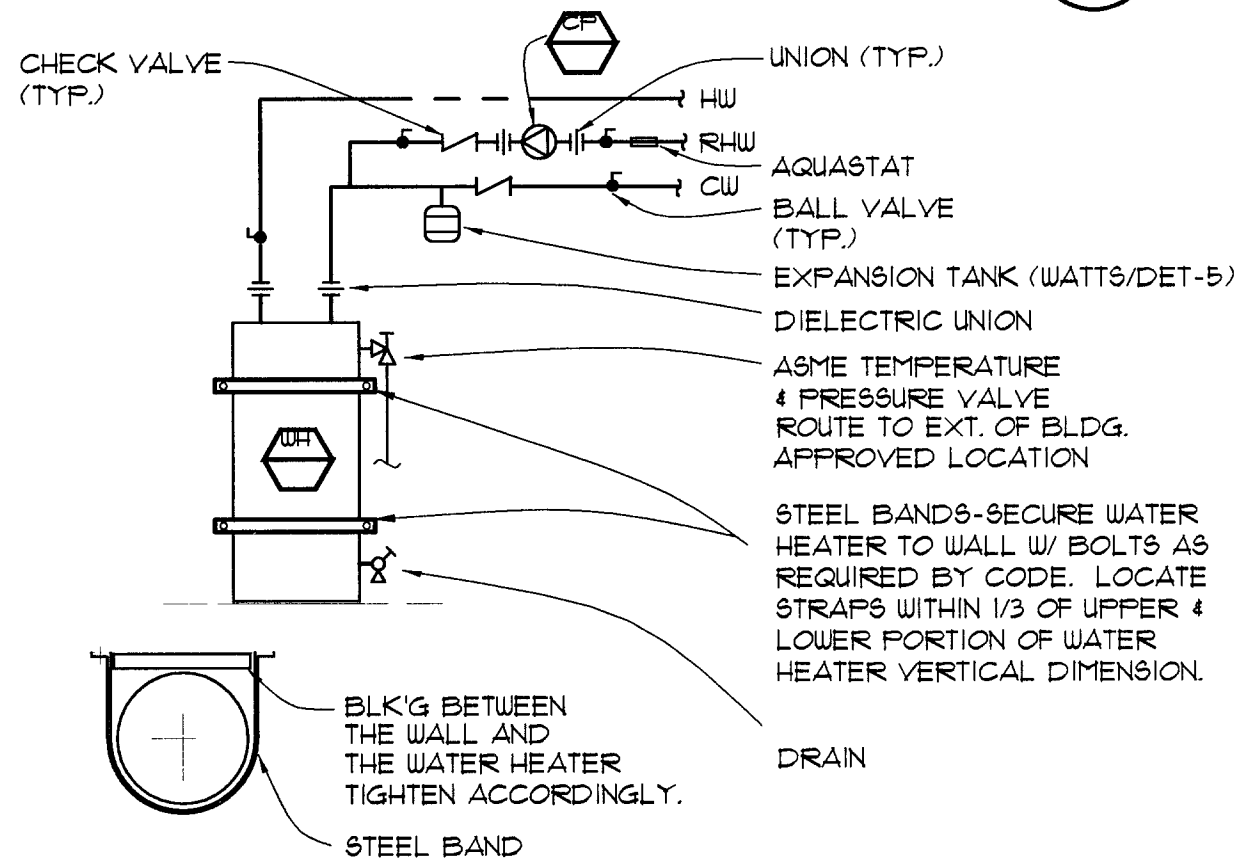
UNIT MARK NUMBER		PACKAGED GAS FIRED ROOFTOP UNIT / ENERGY RECYCLER SCHEDULE																					
MARK	TOTAL CFM	E.S.P. IN. WC.	ROOFTOP UNIT CAPACITY					ENERGY RECYCLER CAPACITY					SYSTEM CAPACITY			ELECTRICAL	ROOFTOP UNIT MANUFACTURER/ MODEL *	ENERGY RECYCLER MANUFACTURER/ MODEL *	EQUIP. WEIGHT (LBS.)	REMARKS			
			COOLING		GAS HEATING			COOLING		HEATING			COOLING		HEATING								
			TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	EAT DB/WB (°F)	AMB. (°F)	GAS INPUT CFH	GAS OUTPUT CFH	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	HEATING CAPACITY MBH	OUTSIDE AIR CFH	EXHAUST AIR CFH	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH								
RTU 1	2400	0.4	61.19	64.73	832/64.6	115	72	51.96	20.61	20.61	21.68	1000	1000	88.40	85.34	73.63	230	3	45.6/ 50	CARRIER / 48HJD001	CARRIER / 62AQ100	1000	1, 2, 3, 4, 5, 6
NOTES:																							
1 PROVIDE ROOF CURB BY UNIT MANUFACTURER. SEE ARCHITECTURAL PLANS FOR ROOF SLOPE.																							
2 PROVIDE AND INSTALL DUCT SMOKE DETECTOR IN S/A DUCT, INTERLOCK DETECTOR AS REQUIRED TO SHUT DOWN UNIT UPON DETECTION OF SMOKE. ELECTRICAL CONTRACTOR TO PROVIDE 120V POWER TO DETECTOR ONLY.																							
3 PROVIDE UNIT WITH BIRDSCREEN AND BACKDRAFT DAMPER ON O/A INTAKE																							
4 PROVIDE UNIT WITH 2" THROW-AWAY FILTERS.																							
5 PROVIDE AND INSTALL PROGRAMMABLE THERMOSTAT W/ LOCKING COVER, LOCATION INDICATED ON PLANS. PROVIDE ALL CONTROL WIRING, CONDUIT, TRANSFORMERS, ETC FOR A COMPLETE AND OPERABLE SYSTEM.																							
6 ROOF TOP UNIT AND ENERGY RECYCLER TO BE FACTORY ASSEMBLED AS A SINGLE OPERATING UNIT.																							



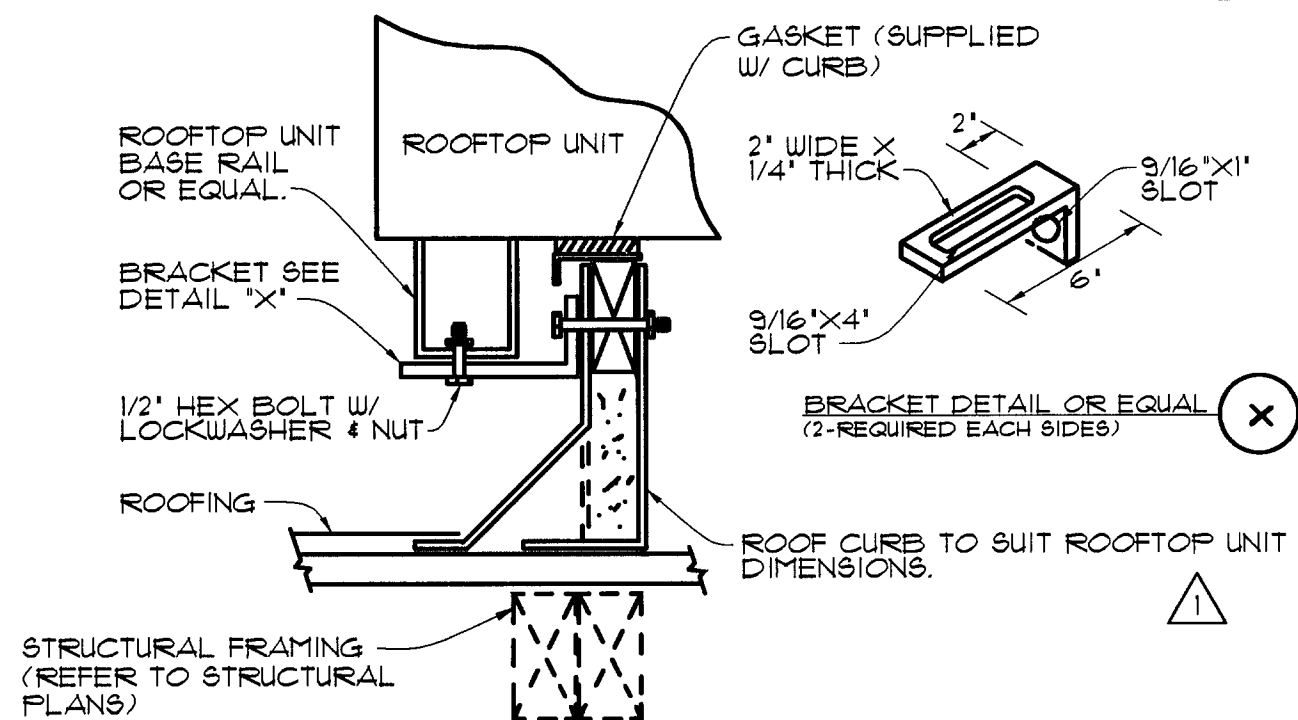
RTU MOUNTING DETAIL 1
NO SCALE



ROOF MTD EXHAUST FAN DETAIL 2
NO SCALE



WATER HEATER DETAIL 3
NO SCALE



MECHANICAL EQUIPMENT RESTRAINT 4
NO SCALE

 UNIT MARK NUMBER		PACKAGED GAS FIRED ROOFTOP UNIT SCHEDULE												
MARK	TOTAL CFM	OUTSIDE AIR CFM	E.S.P. H ₂ O	RPM	COOLING				HEATING		ELECTRICAL VOLTS/PHASE/ MCA/MAX	MANUFACTURER/ MODEL * OR EQUAL	EQUIP. WEIGHT (LBS.)	SEE NOTES
					TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	EAT DB/WB (°F)	AMB. (°F)	GAS INPUT CFH	GAS OUTPUT CFH				
 RTU 2	2000	300	0.3	-	52.4	51.5	82.7/63.3	115	72	52	230/3/28.9/40	CARRIER 48HJD006	730	1, 2, 3, 4, 5
 RTU 3	2400	360	0.3	-	65.4	65.4	82.7/63.3	115	72	52	230/3/32.8/40	CARRIER 48HJD001	780	1, 2, 3, 4, 5
NOTES														
1 PROVIDE ROOF CURB BY UNIT MANUFACTURER. SEE ARCHITECTURAL PLANS FOR ROOF SLOPE.														
2 PROVIDE AND INSTALL DUCT SMOKE DETECTOR IN S/A DUCT, INTERLOCK DETECTOR AS REQUIRED TO SHUT DOWN UNIT UPON DETECTION OF SMOKE ELECTRICAL CONTRACTOR TO PROVIDE 120V POWER TO DETECTOR ONLY.														
3 PROVIDE UNIT WITH BIRDSCREEN AND BACKDRAFT DAMPER ON O/A INTAKE, 100% ECONOMIZER @ 50°F.														
4 PROVIDE UNIT WITH 2' THROW-AWAY FILTERS.														
5 PROVIDE PROGRAMMABLE TSTAT, CONDUIT, CONTROL WIRING, ETC. FOR A COMPLETE & OPERABLE SYSTEM.														

EXHAUST FAN SCHEDULE											
MARK	AIR FLOW (CFM)	E.S.P. IN. WC	TYPE	DRIVE	RPM	ELECTRICAL			MANUFACTURER MODEL OR EQUAL	OPER. WEIGHT (LBS.)	NOTES
						VOLTS/PHASE	HP	WATTS			
						VOLTS/PHASE	HP	WATTS			
EF 1	800	0.3	ROOF EXHAUST	BELT	1317	115	1	1/4	GREENHECK GB-091-4	100	1, 2
EF 2	100	0.375	CEILING EXHAUST	DIRECT	762	115	1	-	GREENHECK SP-B150	10	3
NOTES: 1 ROOF CURB, BIRDSCREEN, BACKDRAFT DAMPER, DISCONNECT SWITCH. 2 PROVIDE TIME SWITCH FOR FAN CONTROL. 3 PROVIDE WITH INTEGRAL GRILLE & BACKDRAFT DAMPER. PROVIDE SEPARATE SWITCH FOR FAN CONTROL.											

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUFACTURER/ MODEL	ROUGH-IN SIZES				REMARKS		
			CW	HW	SAN	VENT			
WC-1	WATER CLOSET	AMERICAN STANDARD 2234.015	1'	---	4'	2'	FLOOR MOUNT, VITREOUS CHINA WITH ELONGATED BOWL, OLSONITE NO. 95 SOLID PLASTIC OPEN FRONT SEAT, AND SLOAN NO. 111 FLUSH VALVE WITH VACUUM BREAKER 1/6 G.F.F.		
WC-2	WATER CLOSET (HANDICAPPED)	AMERICAN STANDARD 3043.102	1'	---	4'	2'	FLOOR MOUNT, VITREOUS CHINA WITH 18" HIGH ELONGATED BOWL, OLSONITE NO. 95 SOLID PLASTIC OPEN FRONT SEAT AND SLOAN NO. 111 FLUSH VALVE WITH VACUUM BREAKER. FLUSH HANDLE ON ACCESS SIDE. 1/6 G.F.F.		
UR-1	URINAL	AMERICAN STANDARD 6501.010	3/4'	---	3'	1-1/2'	WALL HUNG VITREOUS CHINA WITH SLOAN NO. 186-1 FLUSH VALVE WITH VACUUM BREAKER & JR SMITH 635 SUPPORT 1/2 G.F.F.		
UR-2	URINAL (HANDICAPPED)	AMERICAN STANDARD 6541.132	3/4'	---	3'	1-1/2'	WALL HUNG VITREOUS CHINA WITH LIP AT 18" AFF SLOAN NO. 186-1 FLUSH VALVE WITH VACUUM BREAKER & JR SMITH 635 SUPPORT 1/2 G.F.F.		
LAV	LAVATORY	AMERICAN STANDARD 0496.011	1/2'	1/2'	2'	1-1/2'	UNDERCOUNTER MOUNT, REAR OVERFLOW WITH DELTA NO. 867153 METERING FAUCET C/P. ANGLE STOP VALVES. 0.15 GPM PER FAUCET		
S	SINK	DAYTON K-12572	1/2'	1/2'	2'	1-1/2'	25" X 22" SINGLE COMPARTMENT, SELF RIMMING STAINLESS STEEL SINK WITH MOEN MODEL T310 FAUCET C/P ANGLE STOP VALVES, FLEXIBLE SUPPLY RISERS AND P-TRAP (2.5 GPM)		
EWC	ELECTRIC WATER COOLER	SUNROC NUCA-0-ET	1/2'	---	2'	1-1/2'	WALL MOUNTED, BARRIER FREE ELECTRIC WITH 1.5 GPM CAPACITY ELECTRICAL. 115V / 1ø / 60 HZ 5 A OPERATING WEIGHT: 15 LBS.		
FD	FLOOR DRAIN	JR SMITH 2025-A	---	---	2'	1-1/2'	CAST IRON BODY WITH FLASHING COLLAR NICKEL BRONZE ADJUSTABLE STRAINER HEAD AND TRAP PRIMER CONNECTION. (TRAP PRIMER - PRECISION PLUMBING PRODUCTS 'PRIME RITE')		
FS	FLOOR SINK	JR SMITH 3150-Y-12	---	---	3'	1-1/2'	CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT COATED INTERIOR AND NICKEL BRONZE RIM AND SECURED GRATE.		
WHA	WATER HAMMER ARRESTOR	JR SMITH HYDROTRON	---	---	---	---	SEE PLAN FOR PDI CATEGORY		
MB	MOP BASIN	KOHLER K-6710	3/4'	3/4'	3'	2'	CORNER FLR MTD ENAMELED CAST IRON BODY WITH KOHLER MODEL K-8928 FAUCET WITH VACUUM BREAKER AND INTEGRAL STOPS.		

GRAVITY INTAKE SCHEDULE								
MARK	TYPE	CFM	NECK	FLANGE BASE	E.S.P. IN WG	MANUFACTURER MODEL* OR EQUAL	OPER WEIGHT (LBS)	NOTES
	GRAVITY INTAKE	1500	24"	34"	0.038	GREENHECK GR81-24	100	1, 2
NOTES								
1 ALUMINUM HOUSING, GALVANIZED BIRDSCREEN, FLASHING FLANGE BASE, MANUFACTURER'S CURB, RUBBER CURB CAP STRIPPING.								
2 PROVIDE WITH MANUFACTURER'S MOTORIZED DAMPER, 120V/1PH/60HZ.								

HYAC LEGEND		
ABBR.	SYMBOL	DESCRIPTION
SA		SUPPLY AIR (CEILING)
SA		SUPPLY AIR (SIDE WALL)
RA, EA		RETURN AIR, EXHAUST AIR
OA		OUTSIDE AIR
		DUCT SECTION POSITIVE PRESSURE - FIRST SIZE IS TOP
		DUCT SECTION NEGATIVE PRESSURE - FIRST SIZE IS TOP
		ROOF EXHAUST FAN
		CEILING EXHAUST FAN
		RIGID DUCT
FLEX		FLEXIBLE DUCT
		ROUND DUCT - DOWN
		ROUND DUCT - UP
VD		MANUAL VOLUME DAMPER
CFM		CUBIC FEET PER MINUTE
FD		FIRE DAMPER
SD		FIRE AND SMOKE DAMPER
T-STAT		THERMOSTAT
DMSD		SMOKE DETECTOR (DUCT MOUNTED)
OAD		OUTSIDE AIR DAMPER (OPPOSED BLADE)
RAD		RETURN AIR DAMPER (OPPOSED BLADE)
EAD		EXHAUST AIR DAMPER (OPPOSED BLADE)
BDD		BACKDRAFT DAMPER
CD		CEILING DIFFUSER WITHOUT OBD
G		GRILLE
SW		SIDEWALL
LD		LINEAR DIFFUSER
R		REGISTER WITH OBD
TG		TRANSFER GRILLE
DG		DOOR GRILLE
UC		UNDERCUT
EAT/LAT		ENTERING, LEAVING AIR TEMPERATURE
WB/DB		WET, DRY BULB TEMPERATURE
FFM		FEET PER MINUTE
RPM		REVOLUTIONS PER MINUTE
" WC		INCHES OF WATER COLUMN
TSP		TOTAL STATIC PRESSURE
Δ P		PRESSURE DROP, PRESSURE DIFFERENCE

DIFFUSER AND GRILLE SCHEDULE						
MARK	TYPE	SIZE	NECK SIZE	PANEL SIZE	MANUFACTURER/ MODEL NUMBER OR EQUAL	SEE NOTES
SD	SUPPLY CD	10"	10"	18" X 18"	METALAIR 5100	1, 2, 3, 4
SD	SUPPLY CD	8"	8"	24" X 24"	METALAIR 5100	1, 2, 3, 4
SD	SUPPLY CD	10"	10"	24" X 24"	METALAIR 5100	1, 2, 3, 4
SD	SUPPLY CD	12"	12"	24" X 24"	METALAIR 5100	1, 2, 3, 4
SD	SUPPLY CD	14"	14"	24" X 24"	METALAIR 5100	1, 2, 3, 4
SD	SUPPLY CD	12"	12"	23"	METALAIR 3100S	1, 2
E	EXHAUST E	12"	12" X 12"	18" X 18"	METALAIR CC-5	1, 2, 3
R	RETURN R	SEE PLAN	22" X 22"	24" X 24"	METALAIR RH	1, 2, 3
NOTES: 1 COORDINATE LOCATIONS WITH ARCHITECTURAL AND ELECTRICAL PLANS. 2 PROVIDE WITH BALANCING DAMPER. 3 PROVIDE SUITABLE FRAME FOR CEILING TYPE, COORDINATE W/ ARCHITECTURAL PLANS. 4 PROVIDE 4-WAY THROW UNLESS INDICATED OTHERWISE ON PLANS. (1-W = 1-WAY, 2-W = 2-WAY, 3-W = 3-WAY)						

RECIRCULATING PUMP SCHEDULE								
SYMBOL	DESCRIPTION	SERVICE	FLOW GPM	HEAD FT.	ELECTRICAL * HP V/PH/Hz		MANUFACTURER # MODEL NO	NOTES
	IN LINE	WH-1	2	10	1/25	115/1/60	GRUNDFOS UPB-42BUC5	1
NOTE: 1 PROVIDE ALL BRONZE CONSTRUCTION FOR DOMESTIC WATER USE.								

ELECTRIC WATER HEATER SCHEDULE								
MARK								
NUMBER								
SYMBOL	MINIMUM STORAGE (GALLONS)	MINIMUM RECOVERY (GPH AT 100°F RISE)	NO OF ELEMENTS	ELECTRICAL ELEMENTS (KW EACH)	VOLTAGE	PHASE	MANUFACTURER/ MODEL NUMBER OR EQUAL	NOTES
	30	16	1	4	240	1	BRADFORD WHITE LD-30L3-3C030	1
NOTE:								
1 ROUTE T4P RELIEF DRAIN TO FLOORSINK W/ AIR GAP.								

LIST OF DRAWINGS

- MP001 LEGEND, SCHEDULES AND DETAILS
- MP002 SPECIFICATIONS
- MP101 HVAC/PLUMBING DEMOLITION PLAN
- MP201 HVAC/PLUMBING PLANS

FINAL



COORD 12/15/04
COORD 4/4/05

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CLY East Yard Building 'A' Interior Remodel
3104 E Bonanza Road

LEGEND, SCHEDULES
AND DETAILS

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MECHANICAL
KELLY & DAME

DRAWN: RE
FILE: BLDG A-D2
DATE: 11/19/04
SCALE: NO SCALE
PROJECT: BUILDING A REMODEL
SHEET NO:
PROJECT NO:

MP0.01
OF 4