

Date January 17, 2002

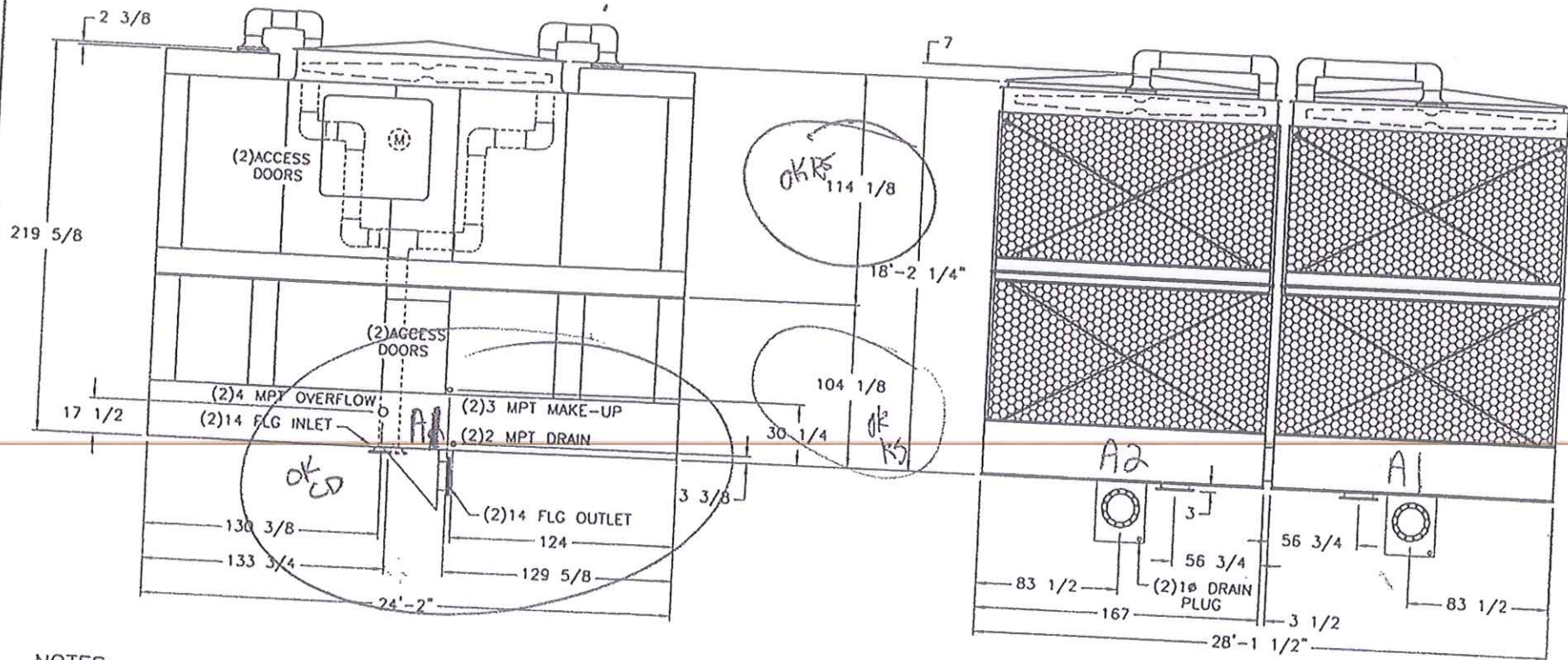
## MECHANICAL SPECIFICATIONS

## EVAPCO® EDX COOLING TOWERS

PROJECT	<u>UAMS ABI CENTRAL PLANT</u>	UNIT	<u>(2) EDX 214-1424 COOLING TOWERS</u>
CUSTOMER	<u>COMFORT SYSTEMS USA (ARKANSAS), INC.</u>	P.O.	<u>02-828-1</u>
EVAPCO SERIAL NO.	<u>T020133-34</u>	ENGINEER	<u>TME CORPORATION - LITTLE ROCK, AR</u>

UNIT TYPE	Factory assembled, induced draft crossflow cooling tower.
CONSTRUCTION	Cold water basin is constructed of type 304 stainless steel. Heavy gauge mill hot-dip galvanized steel casing. Hot-dip galvanized steel channel and angle supports. All galvanized steel is coated with a minimum of 2.35 ounces of zinc per square foot of area (G-235 designation). During fabrication, all galvanized steel panel edges are coated with a 95% pure zinc-rich compound.
HOT WATER DISTRIBUTION	Each tower is provided with a single bottom water inlet connection and Schedule 40 PVC (polyvinyl chloride) pipe work designed to balance the flow to each distribution basin. The distribution basin is type 304 stainless steel with anti-vortexing type polypropylene nozzles to assure even water distribution over the heat transfer fill media. Heavy duty fiberglass hot water distribution basin covers are provided. Basin covers are of a sliding design to allow easy inspection of hot water basins.
MAKE-UP FLOAT VALVE ASSEMBLY*	Brass float valve with adjustable plastic float.
PAN STRAINER*	All type 304 stainless steel construction with large area removable perforated screens.
ACCESS	Large access doors are provided in the tower casing wall to permit entry into the tower cold water basin and fan plenum area. Access doors are of a hinged design for easy access.
FANS	Fans are axial propeller type constructed of aluminum alloy and statically balanced. The fan is installed in a closely fitted cowl with venturi air inlet. Fan screens are galvanized steel and have steel frames bolted to the fan cowl.
FAN SHAFT	Solid shaft of ground and polished steel. Exposed surface coated with rust preventative.
FAN SHAFT BEARING	Fan shaft bearings are a heavy duty self-aligning ball type. Grease fittings are extended to the outside of the unit. Bearings are designed for a minimum L-10 life of 75,000 hours.
FAN MOTOR	Totally enclosed, inverter duty, fan motor will be mounted on an adjustable base which allows the motor to swing to the outside of the unit for servicing. Motor will have a 1.15 service factor, variable torque, ball bearing design and suitable for cooling tower duty.
DRIVE	Fans will be driven by a multigroove, solid back type v-belt. The belt material is neoprene reinforced with polyester cord and specifically designed for cooling tower service. Fan and motor sheaves are cast aluminum construction. Belt adjustment is accomplished from the exterior of the unit.
FILL	Polyvinyl Chloride (PVC) of cross-fluted design. PVC sheets are bonded together for strength and durability. Fill is self-extinguishing for fire resistance, has a flame spread of 5 under A.S.T.M. designation E-84-81a, and is resistant to rot, decay and biological attack.
ELIMINATORS	The eliminators are constructed of Polyvinyl Chloride (PVC). Design incorporates two changes in air direction and limits the water carryover to a maximum of 0.002% of the circulating water rate.
AIR INLET LOUVERS	Air inlet louvers are water containment design in order to minimize water splash out. Louvers are PVC construction molded integral with fill sheets in order to establish and maintain a contained water flow pattern on the fill sheets.

\*OMITTED ON UNITS FOR REMOTE SUMP OPERATION Stainless Steel Cold Water Basin 14FT WIDE BELT DRIVE SP3601-NS  
VFD Duty Single Bottom Inlet



**NOTES:**

1. MAKE-UP WATER PRESSURE 20 psi MIN. 50 psi MAX.
2. 3/4" MOUNTING HOLES. REFER TO RECOMMENDED STEEL SUPPORT DRAWING.
3. THE UPPER SECTION IS THE HEAVIEST SECTION.
4. MPT DENOTES MALE PIPE THREAD.  
 FPT DENOTES FEMALE PIPE THREAD.  
 BFW DENOTES BEVELED FOR WELDING.  
 VICT. DENOTES GROOVED CONN.

WEIGHTS			NO. SHIPPING SECTIONS
SHIPPING	OPER.	HEAVIEST SECTION	
43450	89100	12560	4

EVAPCO MODEL

(P) EDX 214-1424 COOLING TOWERS

CERTIFIED FOR COMFORT SYSTEMS USA (ARKANSAS), INC. PROJECT UAMS ABI CENTRAL PLANT

CUSTOMER ORDER NO. 02-828-1

CAPACITY EACH UNIT 5,100

EVAPCO No. T020133

FAN MOTOR HP EACH UNIT (2) 75 (VFD DUTY)

GPM 95°F IN 85°F OUT 80°F E.W.B.

STATIC LIFT 19' 6-7/8"

ELEC. SPEC. 460/60/3

REMARKS

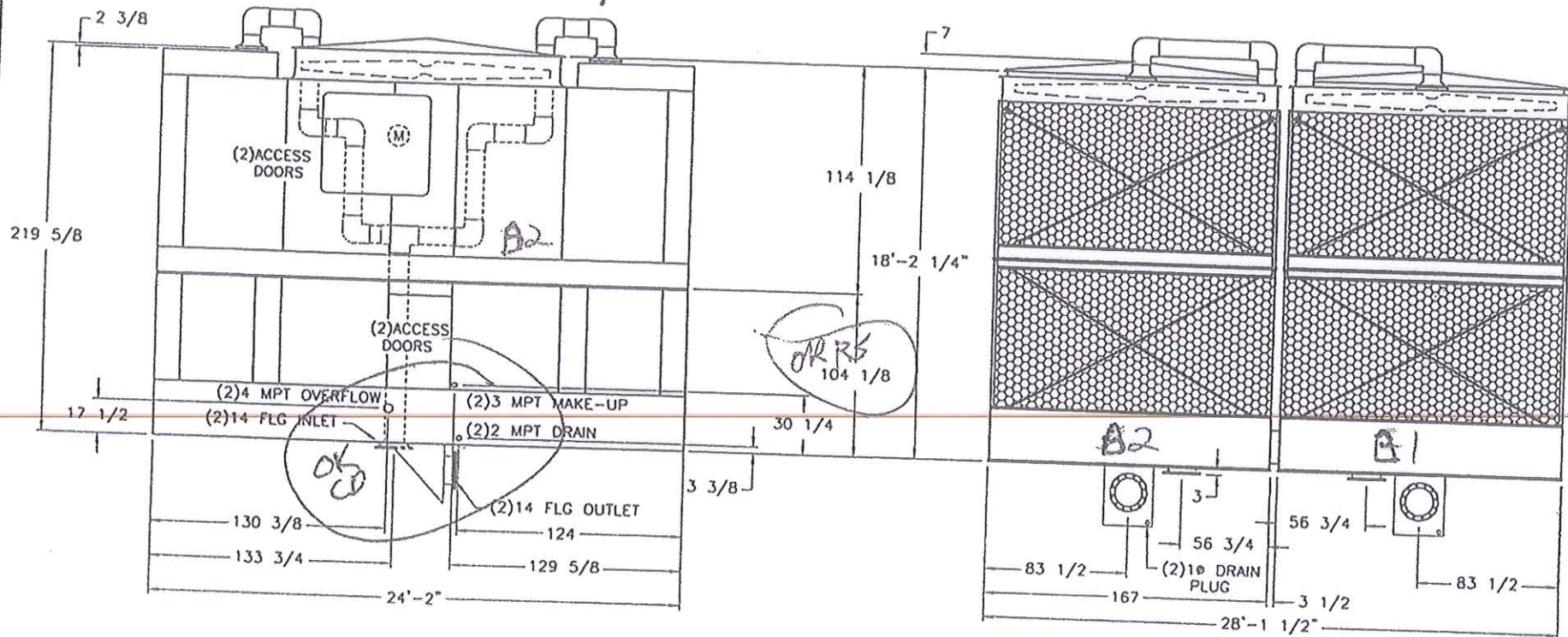
PSIG DRIVES SIZED FOR 0" ESP

SEE ADDENDUM



COOLING TOWER  
DSC/dah 1/16/02

TX282436ERA-15



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WEIGHTS			NO. SHIPPING SECTIONS
SHIPPING	OPER.	HEAVIEST SECTION	
43450	89100	12560	4

**EVAPCO MODEL**

**(1) EDX 214-1424 COOLING TOWERS**

CERTIFIED FOR	COMFORT SYSTEMS USA (ARKANSAS), INC.	PROJECT	UAMS ABI CENTRAL PLANT
CUSTOMER ORDER NO.	02-828-1	EVAPCO No.	T0201-34
CAPACITY	EACH UNIT 5,100	GPM	95°F IN 85°F OUT 80°F E.W.B.
FAN MOTOR HP	EACH UNIT (2) 75 (VFD DUTY)	ELEC. SPEC.	460/60/3
STATIC LIFT	19' 6-7/8"	PSIG	DRIVES SIZED FOR 0" ESP
REMARKS			

SEE ADDENDUM



**COOLING TOWER**  
DSC/dah 1/16/02

**TX282436ERA-15**