

# Transmittal

**Date** December 11, 2013  
**Please Deliver To** Mr. Pat Patrick  
 McKnight Construction Co.  
 P.O. Box 204718  
 Augusta, GA 30917  
**Phone Number** (706) 863-7784  
**From** Ginger Knowles, PDA  
**Project Name** Athens Clarke County Jail Expansion  
**Project Number** 11068.00  
**Transmitted For Your** Use Information  
**Transmitted By** Buzzsaw  
**Copy To** Electronic File

**Remarks**

Copies	Specification Section	Description	No Exceptions Taken	Make Corrections Noted	Make Corrections Noted and Resubmit	Rejected	Not Required for Review	Comments
1	236500	Cooling Tower			X			

## ROSSER

**Rosser International, Inc.**  
 Two Peachtree Pointe • 1555 Peachtree Street, NE  
 Suite 800 • Atlanta GA 30309  
 t 404 876 3800  
[www.rosser.com](http://www.rosser.com)

# PROJECT TITLE: Athens-Clarke County Jail Expansion

SUBMITTAL NUMBER: 236500 - 1 - COOLING TOWERS

ROSSER INTERNATIONAL	
DOCUMENT REVIEW	
THESE DOCUMENTS HAVE BEEN REVIEWED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS, AND COORDINATING THIS WORK WITH ALL OTHER TRADES.	
_____	NO EXCEPTIONS TAKEN
_____	MAKE CORRECTIONS NOTED
<input checked="" type="checkbox"/>	MAKE CORRECTIONS NOTED & RESUBMIT
_____	REJECTED
_____	NOT REQUIRED FOR REVIEW
DATE :	12/10/13 <span style="float: right;">W. Curry</span>

Comments:

1. Submitted tower will require signification piping changes. Contractor shall ensure pipe routing is changed to comply with this towers requirements.
2. Contractor shall adjust top of steel tower support beams to be 4'-0" above finished floor (ELEVATION 749'-8"). Coordinate piping offsets as required.
3. This tower will not fit in the location shown on the construction documents. Tower shall be relocated per attached sketch. Re-submittal shall indicate (on a scaled plan) the new tower location; including support locations, ladder locations and proposed pipe routing. Resubmitted shall also indicate that coordination with steel supplier and concrete supplier will be made for proper location/dimensions of steel supports and footings due to the new location and lower elevation.
4. VFD drive not submitted.
5. Basin Heaters:
  - a. Disconnect shall be provided with each unit.
  - b. Heaters shall have multiple stages of control .





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**[www.coolingtower.net](http://www.coolingtower.net)**

November 13, 2013

To: Project Architect  
c/o Rosser International, Inc  
Invesco Building  
1555 Peachtree Street NE  
Atlanta, Georgia 30309

Re: Athens Clarke County Jail  
Athens, Georgia  
SR-10- Height Issue- Evapco, Inc Cooling Tower

ARCH / ENG, PLEASE ADVISE  
WHICH OPTION IS ACCEPTABLE.

Dear Sir:

In light of the recent correspondence with regard to SR-10 issued by Mr Michael Kennedy, we respectfully request consideration of the following suggestions.

Martin Mechanical Contractors, Inc will reduce the overall installed height of the Evapco Cooling Tower by:

- A. Lower the vertical supporting structural steel piers for the cooling tower by corresponding height differential. i.e. three [3] feet for the submitted Model AT 212-528 which is 17'6-1/2" in height.

Background: Applying the formula for determining the Net Positive Suction Head Available NSPHa and applying that to the NPSHr, the cooling tower can be lowered by the height differential and have a NSPHa of 34.827 feet. The scheduled NPSHr is 8 whereas the submitted CWP-1,-2,-3 Patterson Pumps have a NPSHr of 14.8 ft.

- B. Same as "A" above, but applying Evapco Cooling tower Model AT 212-824 which is a foot shorter in height four feet shorter in length and will require the same fan motor horsepower as scheduled, 30 HP per fan. Thus, lowering the vertical height of the

**Georgia Office**  
333 North Main Street  
Alpharetta, Georgia 30009  
770-475-7740

**Florida Office**  
P. O. Box 15339  
Fernandina Beach, Florida 32035  
904-310-9280

**TOLL FREE 877-475-7740**  
**myFAX 877.649.0035**  
**[www.coolingtower.net](http://www.coolingtower.net)**



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supporting structural steel piers by two[2] feet will resolve the height issue addressed by Mr Kennedy.

Regards, Stephen M Huff

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November 13, 2013

RE: Athens Clarke County Jail  
SR-10 Height Issue- Evapco Cooling Tower

Formula for Determining Net Positive Suction Head-available:

Net Positive Suction Head Available=NPSHa

Ha = Atmospheric Pressure in feet

Hvps= Vapor Pressure of the Fluid Being Pumped

Hst= Static Head

Hfs= Flow loss/restriction of pipe, valves, fittings in feet.

$NPSHa = Ha - Hvps + Hst - Hfs$

Then, for this application:  $NPSHa = 34.2077^{**} - 1.38^{**} + 8 - 3 = 5^{*} - 4.0 \text{ feet}^{****} = 33.828 \text{ feet}$  available if the initially submitted Evapco Model AT 212-528 is applied.

Similarly, if Evapco Model AT 212-824 is applied;  
 $NPSHa = 34.2077 - 1.38 + 8 - 2 = 6 - 4.0 \text{ ft} = 34.828 \text{ feet}$  available

\*\*\* 30.02 inches mercury[ Athens,Ga Airport] =34.2077 feet

\*\* Vapor Pressure Rating in feet of Water at 85 F

\* Height of Basin Water Level above grade

\*\*\*\* Friction loss of pipe valves and fittings in feet.

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**EVAPCO, INC.**  
 P.O. Box 1300  
 Westminster, Maryland 21158, USA

Telephone (410) 756-2600  
 FAX (410) 756-6450

**DATE November 07, 2013**


# SUBMITTAL APPROVAL REQUIRED For EQUIPMENT RELEASE

**Customer:** Martin Mechanical Contractors, Inc.

**Project:** Athens Clarke County Jail

**EVAPCO Serial Number:** 13-577923

**Model Number:** (1) AT-212-824 Cooling Tower

A P P R O V E D		
APPROVED AS NOTED		✓
RETURNED FOR CORRECTION		
DATE	BY	
12/7/2013		
Approval of this shop drawing sample, etc. does not relieve subcontractor or supplier from meeting contract drawings or specifications.		
McKnight Construction Company PO Box 204718 Augusta, GA 30917		

	INITIALS	DATE	REQUESTED SHIP DATE
Approved for Release as Submitted			
Approved for Release with Changes as Noted			
Not Approved as Noted			



**EVAPCO, INC.**  
P. O. Box 1300  
Westminster, Maryland 21158, USA

November 07, 2013

Telephone (410) 756-2600  
FAX (410) 756-6450

Mr. Donnie Burroughs  
Martin Mechanical Contractors, Inc.  
PO Box 1729  
Athens, GA 30603

RE: Your Purchase Order Verbal Donnie Burroughs  
EVAPCO Serial 13-577923  
(1) AT-212-824 Cooling Tower  
PROJECT Athens Clarke County Jail

Dear Mr. Burroughs:

Please find the enclosed revised submittal data for the above referenced order. The revised submittal data is provided to show the following changes:

- **Changed unit to an AT- 212-824 due to a height restriction.**
  - **Changed Fan motors to 30HP.**

We look forward to receiving submittal approval and release for production in the near future. If you have not already done so please forward a copy of your purchase order along with your approved submittals.

If we may be of any further assistance please contact your local EVAPCO representative, Heat Transfer Systems, Inc. (HVAC).

We thank you for your interest in EVAPCO and look forward to being of service to you.

Sincerely,

EVAPCO, INC.

*Alex Eisold*

Alex Eisold  
Marketing Engineer

ENCLOSURE(S)

cc: Heat Transfer Systems, Inc. (HVAC) - Steve Huff



November 08, 2013

## EVAPCO® SUBMITTAL PACKAGE

PROJECT ATHENS CLARKE COUNTY JAIL UNIT (1) AT-212-824 COOLING TOWER  
CUSTOMER MARTIN MECHANICAL CONTRACTORS, P.O. VERBAL DONNIE BURROUGHS  
EVAPCO SERIAL NO. 13-577923 ENGINEER MARTIN MECHANICAL

### SUBMITTAL DATA ENCLOSED

#### DESCRIPTION

PERFORMANCE AND MECHANICAL SPECIFICATIONS  
UNIT CERTIFIED DRAWING  
STEEL SUPPORT CONFIGURATION  
EXTERNAL SERVICE PLATFORM  
VIBRATION SWITCH (SINGLE SPEED)  
CERTIFICATE OF COMPLIANCE  
GUARANTEE OF THERMAL PERFORMANCE

#### DOCUMENT NUMBER

AT12ST-ST  
T3122448-DRC-054 [C2]  
SLIX1224-DC  
PLT3MT24DB-02 [C2]  
V1AU0000-EE  
IBCIDCOC001.pdf  
AOS2636

**EVAPCO...TAKING QUALITY AND SERVICE TO A HIGHER LEVEL!**



**PERFORMANCE AND MECHANICAL SPECIFICATIONS**

**EVAPCO® AT COOLING TOWERS**

<b>PROJECT</b>	<u>Athens Clarke County Jail</u>		
<b>CUSTOMER</b>	<u>Martin Mechanical Contractors, Inc.</u>		
<b>ENGINEER</b>	<u>Martin Mechanical Contractors, Inc</u>		
<b>UNIT:</b>	<u>(1) AT-212-824 Cooling Tower</u>		
<b>CUSTOMER P.O.</b>	<u>Verbal Donnie Burroughs</u>	<b>EVAPCO SERIAL NO.</b>	<u>13-577923</u>
<b>CAPACITY</b>	<u>2880 GPM</u>	<b>95 °F IN</b>	<u>85 °F OUT</u> <b>78 °F E.W.B.</b>
<b>FAN MOTOR:</b>	<u>(2) 30 HP</u>	<b>ELEC. SPEC.</b>	<u>460/3/60</u>
<b>INLET PRESSURE:</b>	<u>3.2 PSIG</u>	<b>DRIVES SIZED FOR 0" ESP.</b>	

- UNIT TYPE** Factory assembled, induced draft, counterflow cooling tower.
- CONSTRUCTION** All cold water basin components including vertical supports and air inlet louver frames are constructed of type 304 Stainless Steel. Casing, channels and angle supports are constructed of heavy gauge mill hot-dip galvanized steel. 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.
- IBC COMPLIANCE** The unit structure has been designed, analyzed, and constructed in accordance with the latest edition of International Building Code (IBC) Regulations for seismic loads up to 1g and wind loads up to 60psf.
- 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** Hinge mounted door in the upper casing for fan drive and water distribution system access. Removable louver panels on all four sides of the unit for pan and sump access.
- FAN SHAFT** Solid shaft of ground and polished steel. Exposed surface coated with rust preventative.
- FAN SHAFT BEARINGS** Heavy-duty, self-aligning ball type bearings with extended lubrication lines to grease fittings located on access door frame. Bearings are designed for a minimum L-10 life of 75,000 hours.

<b>FAN(S)</b>	<b>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.</b>
<b>FAN MOTOR</b>	<b>Totally enclosed, ball bearing type electric motor(s) suitable for moist air service. Motor(s) are Premium Efficient, Class F insulated, 1.15 service factor design. Inverter rated per NEMA MG1 Part 31.4.4.2 and suitable for variable torque applications and constant torque speed range with properly sized and adjusted variable frequency drives.</b>
<b>FAN DRIVE</b>	<b>The fan drive is a multi-groove, solid back, reinforced neoprene V-belt type with taper lock sheaves designed for 150% of the motor nameplate horsepower. Fan and motor sheaves are constructed of aluminum alloy.</b>
<b>FILL</b>	<b>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.</b>
<b>WATER DISTRIBUTION SYSTEM</b>	<b>Precision molded ABS, large orifice spray nozzles utilizing fluidic technology for superior water distribution over the fill media and to minimize water distribution system maintenance. Spray header and branches are Schedule 40 Polyvinyl Chloride (PVC) for corrosion resistance with steel connection to attach external piping. Branches have threaded end caps to facilitate debris removal.</b>
<b>ELIMINATORS</b>	<b>The eliminators are constructed entirely of Polyvinyl Chloride (PVC) in easily handled sections. Design incorporates three changes in air direction and limits the water carryover to a maximum of 0.001% of the circulating water rate.</b>
<b>AIR INLET LOUVERS</b>	<b>The air inlet louvers are constructed from UV inhibited polyvinyl chloride (PVC) and incorporate a framed interlocking design that allows for easy removal of louvers for access to the entire basin area for maintenance. The louvers have a minimum of two changes in air direction and are of a non-planar design to prevent splash-out, block direct sunlight and debris from entering the basin. (Patent Pending)</b>
<b>PASSIVATION</b>	<b>All evaporative cooling equipment utilizing galvanized construction requires initial passivation to maximize the service life of the equipment. The sites water treatment vendor should be contacted several weeks prior to adding any water to the system to provide a passivation plan along with associated passivation plan costs.</b>
<b>*OMITTED ON UNITS FOR REMOTE SUMP OPERATION</b>	

**SPECIAL REMARKS:**

- **Unit(s) provided with External Service Platform(s) with Vertical Ladder(s).**
- **Safety cage(s) provided for ladder(s).**
- **3 ft extension(s) provided with safety cage(s).**
- **Flume plate.**
- **3 ft extension(s) provided with ladder(s).**
- **Unit provided with vibration cutout switch(es), mounted (wiring and sensitivity adjustment by others).**
- **IBC Compliant up to 1g.**
- **(2) 3 in Hole(s) for BH (by others).**
- **(2) 3 in Hole(s) for LWCO (by others).**
- **Minimum Flow: 1090 GPM –Maximum Flow: 4100 GPM.**

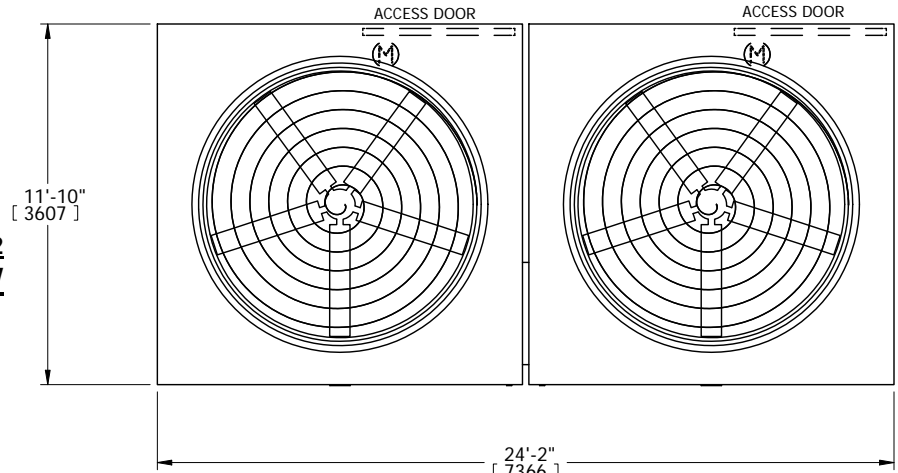
# EVAPCO, INC.



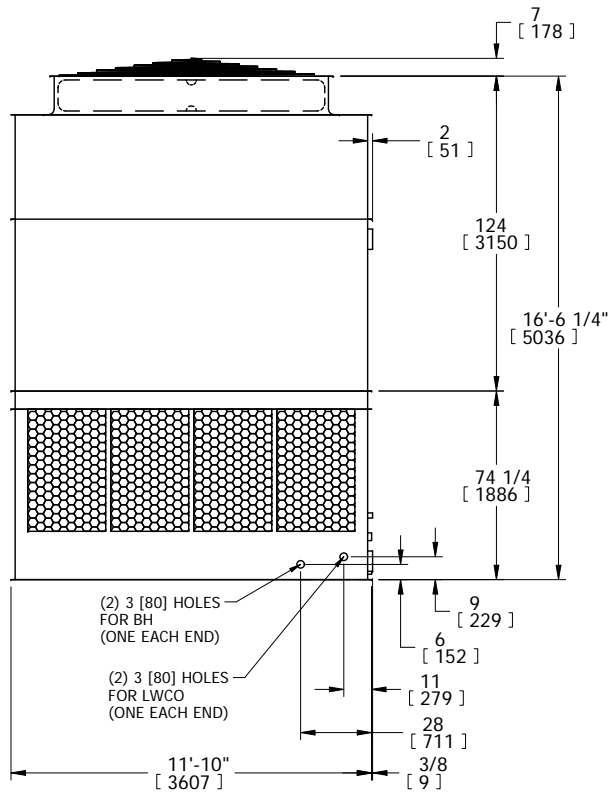
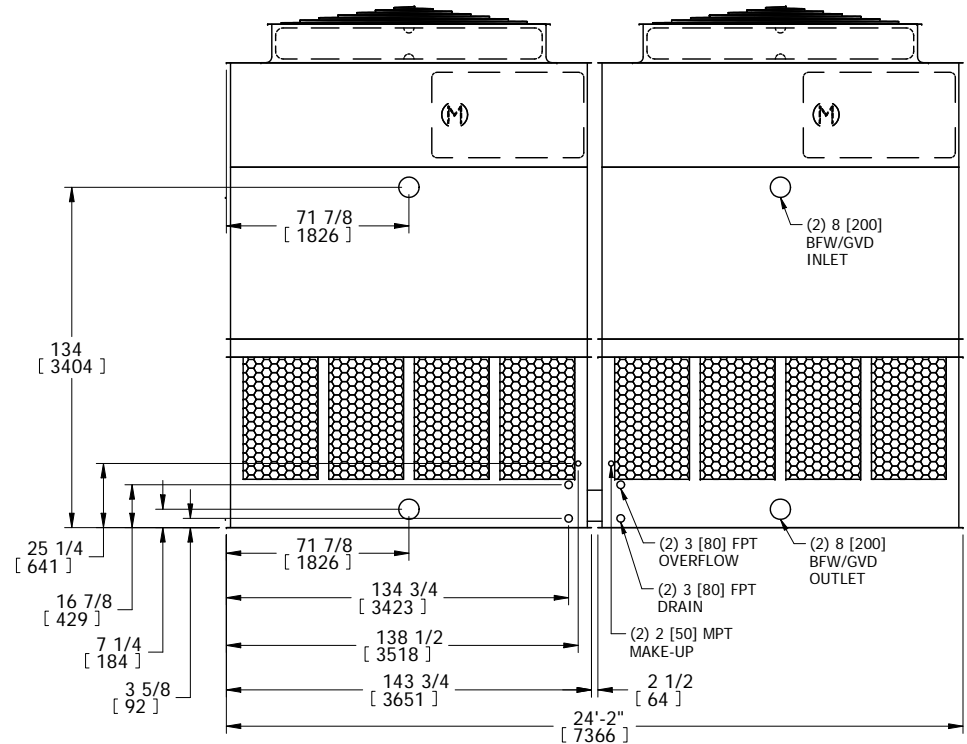
UNIT <b>COOLING TOWER</b>	MODEL # AT-212-824	SCALE N.T.S.	DWG. # T3122448-DRC-054	REV. -	DATE 11/07/13	SERIAL # 13-577923
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- NOTES:
- (M)- FAN MOTOR LOCATION
  - HEAVIEST SECTION IS UPPER SECTION
  - MPT DENOTES MALE PIPE THREAD  
FPT DENOTES FEMALE PIPE THREAD  
BFW DENOTES BEVELED FOR WELDING
  - +UNIT WEIGHT DOES NOT INCLUDE ACCESSORIES (SEE ACCESSORY DRAWINGS)
  - MAKE-UP WATER PRESSURE  
20 psi MIN [137 kPa], 50 psi MAX [344 kPa]

**FACE 2  
PLAN VIEW**



**FACE 1**



**FACE 2**

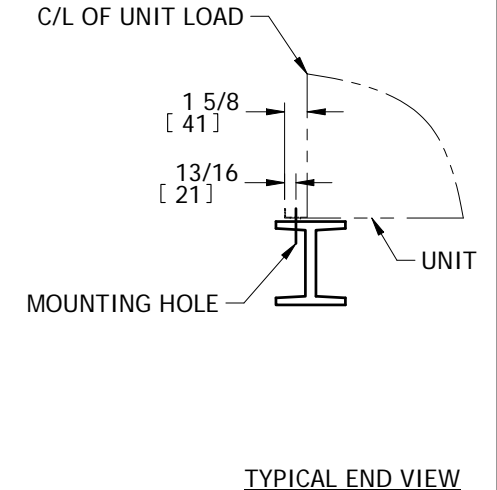
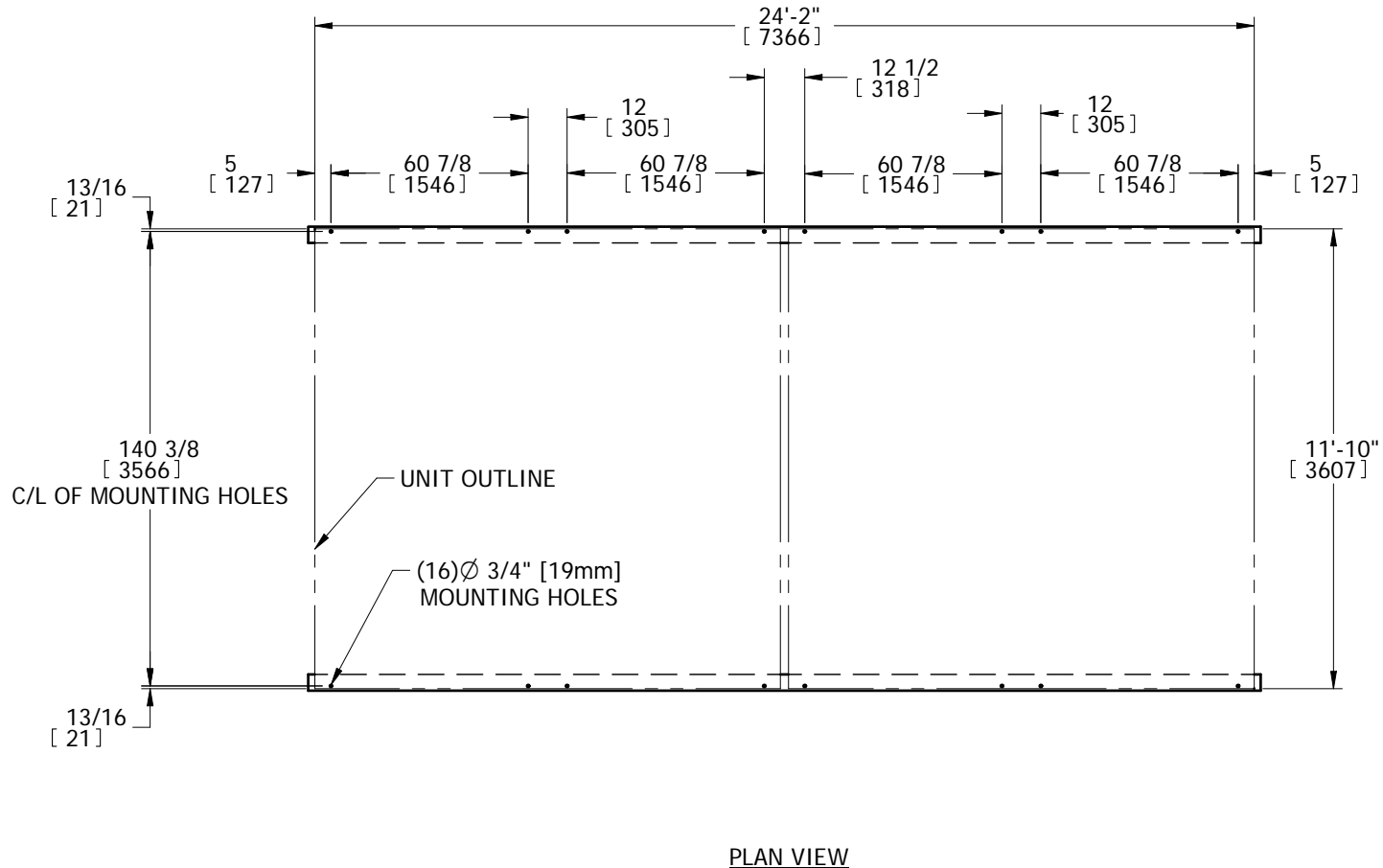
**FACE 1**

SHIPPING WEIGHT 17800 lbs+ [8074] kg+	OPERATING WEIGHT 30220 lbs+ [13708] kg+	HEAVIEST SECTION WEIGHT 6480 lbs+ [2939] kg+	NO. OF SHIPPING SECTIONS 4
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# EVAPCO, INC.



TITLE	STEEL SUPPORT CONFIGURATION	UNIT:	12x24 INDUCED DRAFT TOWERS	DWG. #	SLIX1224-DC
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- NOTES:**
- BEAMS SHOULD BE SIZED IN ACCORDANCE WITH ACCEPTED STRUCTURAL PRACTICES. MAXIMUM DEFLECTION OF BEAM UNDER UNIT TO BE 1/360 OF UNIT LENGTH NOT TO EXCEED 1/2" [13mm].
  - DEFLECTION MAY BE CALCULATED BY USING 55% OF THE OPERATING WEIGHT AS A UNIFORM LOAD ON EACH BEAM. SEE CERTIFIED PRINT FOR OPERATING WEIGHT.
  - SUPPORT BEAMS AND ANCHOR HARDWARE ARE TO BE FURNISHED BY OTHERS. ANCHOR HARDWARE TO BE ASTM - A325 5/8" [16mm] BOLT OR EQUIVALENT.
  - BEAMS MUST BE LOCATED UNDER THE FULL LENGTH OF THE PAN SECTION.
  - SUPPORTING BEAM SURFACE MUST BE LEVEL. DO NOT LEVEL THE UNIT BY PLACING SHIMS BETWEEN THE UNIT MOUNTING FLANGE AND THE SUPPORTING BEAM.
  - ANCHORING ARRANGEMENT SHOWN HAS A MAXIMUM WIND RATING OF 60 PSF [2.87 KPa] ON CASSED VERTICAL SURFACES.
  - THE FACTORY RECOMMENDED STEEL SUPPORT CONFIGURATION IS SHOWN. CONSULT THE FACTORY FOR ALTERNATE SUPPORT CONFIGURATIONS.
  - UNIT SHOULD BE POSITIONED ON STEEL SUCH THAT THE ANCHORING HARDWARE FULLY PENETRATES THE BEAM'S FLANGE AND CLEARS THE BEAM'S WEB.
  - FOR ALL MULTIPLE CELL UNITS. OPERATING WEIGHT OF EACH CELL IS FOUND BY DIVIDING TOTAL OPERATING WEIGHT BY THE NUMBER OF CELLS.
  - WHEN VIBRATION ISOLATION IS REQUIRED FOR MULTIPLE CELL UNITS, THE VIBRATION ISOLATORS ( BY OTHERS) MUST BE LOCATED UNDER THE SUPPORTING STEEL BEAMS AND NOT BETWEEN THE SUPPORTING STEEL BEAMS AND THE UNIT.

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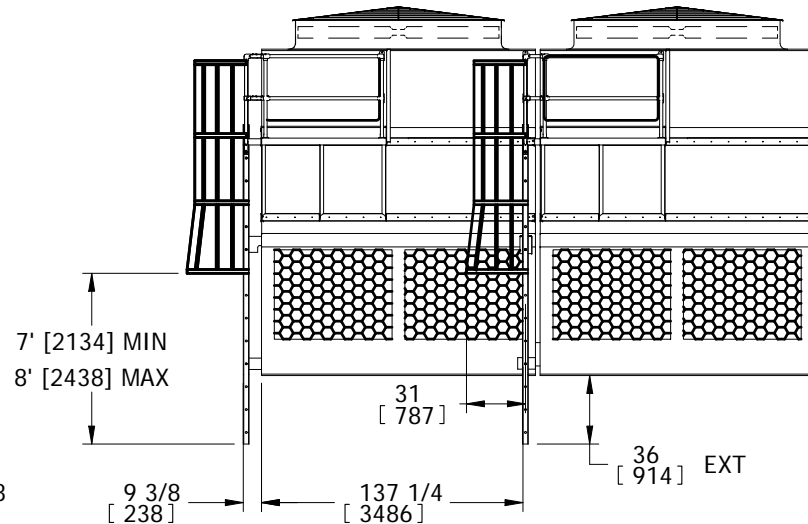
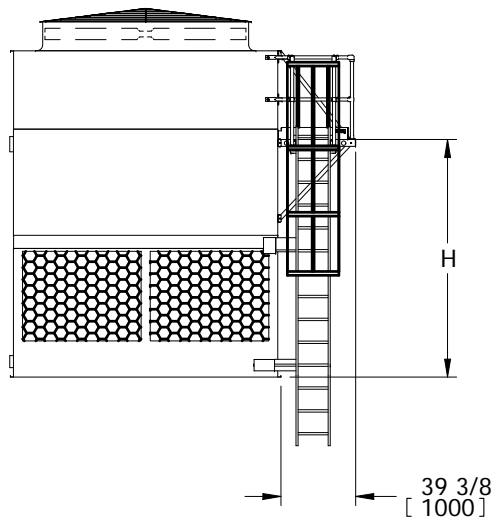
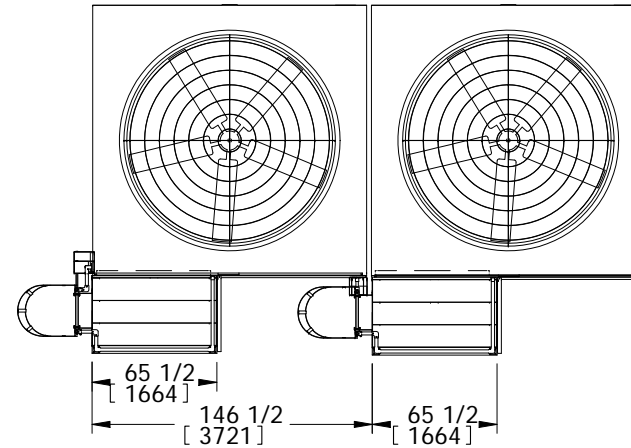


TITLE **EXTERNAL SERVICE PLATFORM**

UNIT: ALL 12/3M X 24 AT COOLING TOWER UNITS

DWG. # PLT3MT24DB-02

MODEL #	H
AT-212-024, 224, 424	115 1/8 [2924]
AT-212-124, 324, 524, 724	127 1/8 [3228]
AT-212-624, 824, 924	139 1/8 [3533]
AT-210-224, 424,	114 1/8 [2898]
AT-210-124, 324, 524, 724	126 1/8 [3203]
AT-210-624, 824, 924	138 1/8 [3508]



**NOTES:**

- LADDER AND PLATFORM SHIP LOOSE. FIELD INSTALLATION BY OTHERS IS REQUIRED.
- THE BOTTOM OF THE LADDER DOES NOT EXTEND PAST THE BASE OF THE UNIT.  
IF THE UNIT IS ELEVATED THEN AN OPTIONAL EXTENDED LADDER PACKAGE SHOULD BE CONSIDERED. (CONSULT FACTORY)
- REFER TO RIGGING PACK FOR LADDER AND PLATFORM MOUNTING INSTRUCTIONS.
- EACH PLATFORM AND LADDER ASSY. WEIGHS 560 LBS. [254KG]
- BOTTOM OF LADDER EXTENSION MUST BE EXTERNALLY SUPPORTED BY OTHERS.

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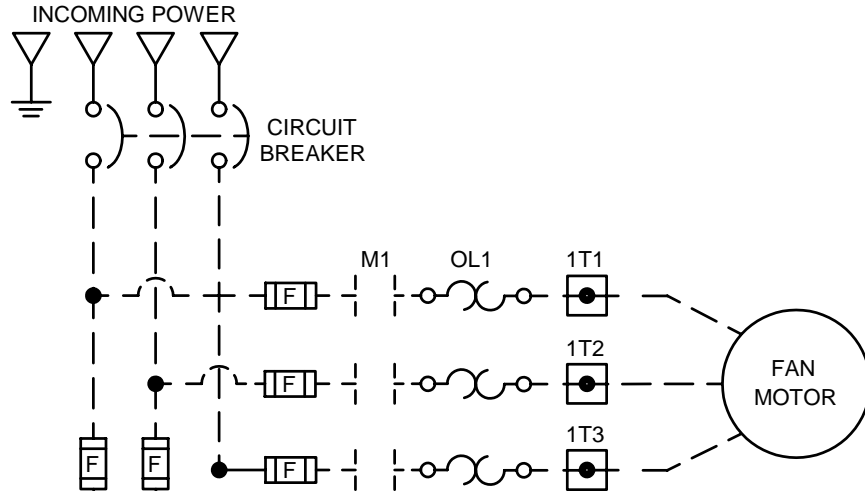


TITLE **VIBRATION SWITCH**

DESCRIPTION: SINGLE SPEED

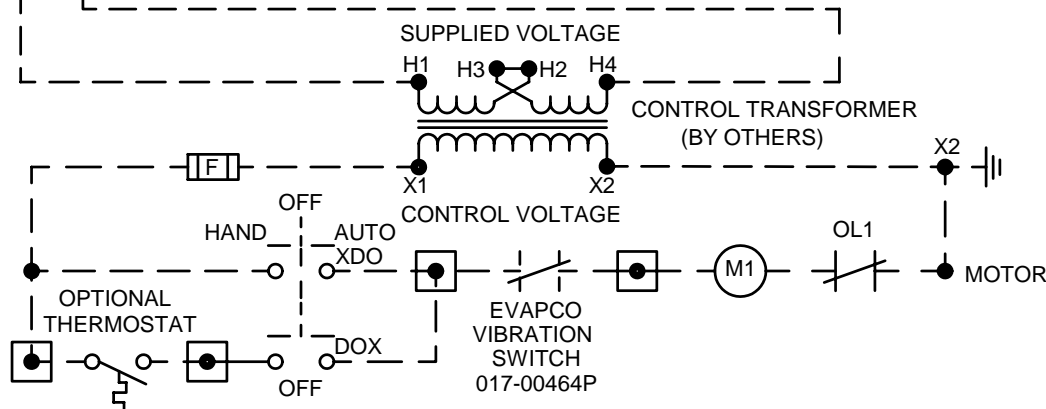
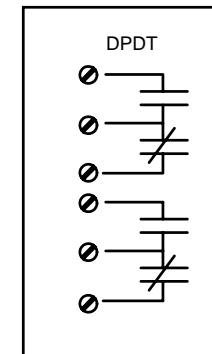
DWG. # V1AU0000-EE

SUPPLIED VOLTAGE, 3 PHASE



**SWITCH CONTACT RATING:**  
 15 AMPS, 125, OR 480 Vac; 1/8 HP, 125 Vac; 1/4 HP, 250 Vac; 1/2 AMP, 125 Vdc; 1/4 AMP, 250 Vdc.

**WIRING DIAGRAM:**



**NOTES:**

1. DASHED LINES INDICATE WIRING(BY OTHERS)

## ADJUSTMENT

ADJUST THE SWITCH SO THAT DURING FULL SPEED START-UP AND UNDER NORMAL CONDITIONS, THE CONTACTS DO NOT TRIP. FIRST, WITH THE MOTOR OFF, TURN THE ADJUSTMENT SCREW COUNTER-CLOCKWISE (MORE SENSITIVE DIRECTION) UNTIL THE SWITCH TRIPS. NEXT, TURN THE ADJUSTMENT SCREW CLOCKWISE 1/8 TURN (LESS SENSITIVE DIRECTION). RESET THE SWITCH BY DEPRESSING THE PUSH-BUTTON RESET LOCATED ON TOP OF THE SWITCH. START THE MOTOR ON FULL SPEED. IF THE MOTOR TRIPS THE SWITCH, THEN TURN THE ADJUSTMENT SCREW CLOCKWISE AN ADDITIONAL 1/8 TURN. RESET THE SWITCH AND START THE MOTOR AGAIN. REPEAT THE ABOVE PROCEDURE UNTIL THE MOTOR CONTINUES TO RUN.



# Certificate of Compliance

AT, USS, UAT, UT Cooling Towers  
eco-ATWB/WB-E, ATWB and ESWA Closed Circuit Coolers  
eco-ATC, ATC-E Evaporative Condensers

Are certified to meet or exceed the Seismic and Wind Load Provisions  
set forth in the applicable building codes for this project.

These products have been manufactured following all  
applicable quality assurance programs.

Applicable Building Codes:

IBC 2012  
ASCE-7  
NFPA 5000

Referenced Report:

VMA-43387

Approval Agency:

VMC Seismic Consulting Group



*EVAPCO...Specialists in Heat Transfer Products and Services.*

ID IBC COC 001



# Guarantee of Thermal Performance

EVAPCO® unequivocally guarantees the thermal performance of its equipment as shown on the certified drawings, when the equipment is installed in accordance with good engineering practice. If after installation and start-up there is any question regarding thermal performance of the equipment, at the owner's request EVAPCO will send its engineers to the jobsite to conduct a performance test. This test may be observed by the owner and the consulting engineer or by their authorized representatives. If the results of the evaluation show the equipment to be deficient, EVAPCO will make the necessary repairs or alterations to correct the deficiency at no cost to the owner. If the equipment is found to be performing in accordance with its certified drawing, the owner is expected to reimburse the company for its costs associated with this performance test. This guarantee is subject to all conditions and limitations set forth in the express warranty that applies to the equipment.



*EVAPCO...Specialists in Heat Transfer Products and Services.*





# Heat Transfer Systems

333 North Main Street  
Alpharetta, GA 30004-1321  
(770)475-7740 (770)475-6167  
[www.coolingtower.net](http://www.coolingtower.net)

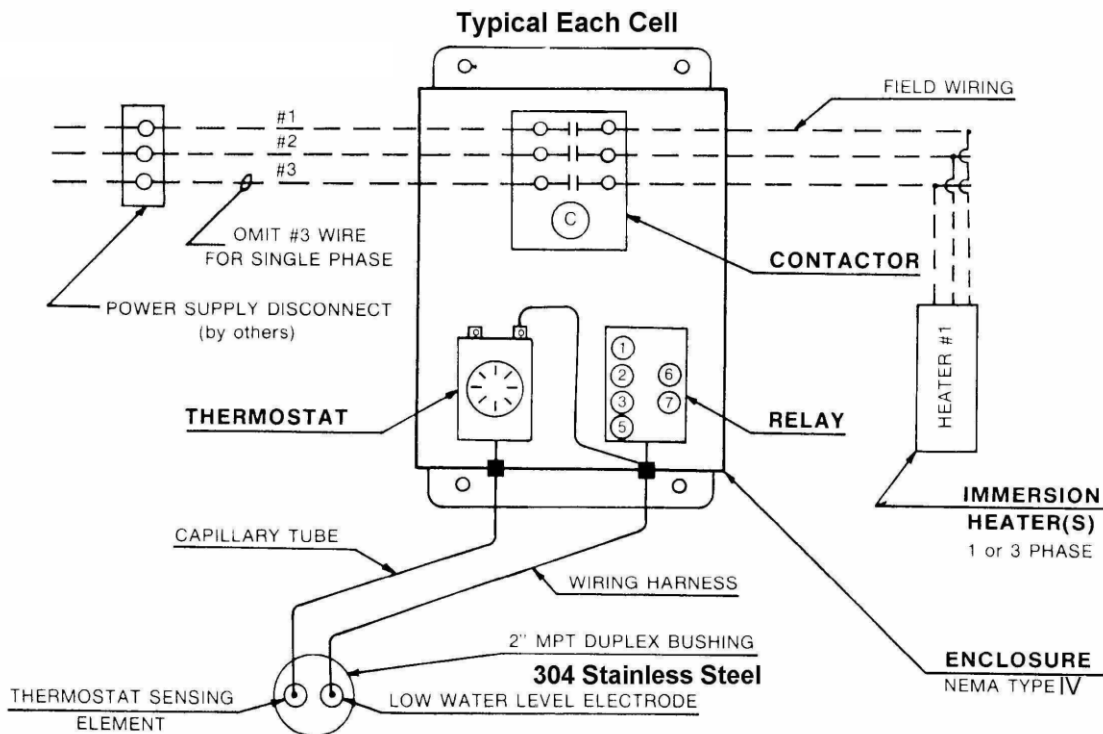
**Project:** Athens Clarke County Jail  
**Location:** Athens, Clarke County, Georgia  
**Mechanical:** Martin Mechanical Contractors, Inc  
**Engineer:** Rosser, International

**Heater Controller Model Number:** HTS 480603  
**Contactor Amp Rating:** 40  
**Electric Immersion Heater**  
**Manufacturer:** INDEECO  
**Voltage:** 480

**Quantity:** 1  
**Quantity:** 1  
**Quantity:** 2

**KW:** 12  
**Phase:** 3

Heater(s) sized to maintain +40 basin temperature at 0 degree ambient conditions



**IMMERSION HEATER CONTROLLER**

# PROJECT TITLE: Athens-Clarke County Jail Expansion

