ORDER: AUTHORIZE ADVERTISEMENT FOR SEALED BIDS FOR PURCHASE OF ONE OR MORE EMULSION TANKS FOR ROAD DEPARTMENT

Motion was made by John Morgan, duly seconded by Tim Gordon, to authorize advertisement for sealed bids for purchase of one or more Emulsion Tanks for Road Department.

The vote on the motion was as follows:

Supervisor Brent Larson, voted yes
Supervisor John Morgan, voted yes
Supervisor Tim Gordon, voted yes
Supervisor Scott Allen, voted yes
Supervisor Greg Bynum, absent

After the vote, President Larson, declared the motion carried, this the 7th day of October, 2024.

Brent Larson, President
Board of Supervisors

Mike Roberts, Chancery Clerk

ADVERTISEMENT FOR BIDS

STATE OF MISSISSIPPI
COUNTY OF LAFAYETTE

Sealed bids will be received by the Board of Supervisors of Lafayette County, Mississippi, until 10:00 A.M. on Friday, November 1st, 2024, in the Chancery Clerk's Office, 300 North Lamar, Oxford, Mississippi, 38655 for purchase of one or more emulsion storage tanks for the Road Department.

LAFAYETTE COUNTY – BID NUMBER 337
ONE OR MORE EMULSION STORAGE TANKS

Complete specifications may be obtained from the County Administrator's office located at 300 North Lamar, Oxford, MS 38655 or by email at kvictor@lafayettecoms.com
.

Bids must include "Lafayette County-Bid Number 337, "One or more emulsion storage tanks" on the outside of the sealed bid. Bids will be awarded to the lowest and best acceptable bidder, except that the Board reserves the right to reject any and all bids.

Published by order of the Board of Supervisors of Lafayette County, Mississippi.

Kate Victor
County Administrator
Lafayette County, Mississippi

October 9 and 16, 2024

#5000 Gallon Emulsion Storage Tank

SPECIFICATIONS

- #5,000 gallon tank manufactured of 1/4" carbon steel oriented to be mounted vertically.
- Tank to be insulated with 3" thick foil backed foam, and then covered with aluminum sheeting for weather protection. Bottom of tank to be flat with 1 inch slope away from the 24" manhole for easy clean out. Tank shall include a 24" insulated manway in the side of the tank at the bottom to provide access into the tank if necessary. Manway shall be double punched and secured with Grade 8 hardware.
- Tank is attached to a steel support stand, which is included, that places the tank loading valves at the proper height (8' for truck mounted unit) above the concrete pad for gravity flow loading of the equipment. Tank is to have 9 legs for the stand.
- Access ladder which gives easy access to the top of the tank. Top of tank is fitted with an inspection door with hasp that can be secured using a padlock. Ladder must be caged for safety and tank will have safety railing around the top.
- Tank to be equipped with a quantity of four (4)1000 watt 240 volt heater blankets, which will be controlled by an adjustable thermostat that is accessible from ground level. The number of blankets is dependent upon size of tank. All electrical components are compatible for indoor or outdoor service. Tank shall have a removable panel that is insulated to allow easy access to service the heater blankets.
- Thermostat is to be a digital model with displays for present tank temperature and desired tank temperature. Temperature adjustments shall be made without having to open any enclosures. Heating activation shall be directed through mercury contactors rated for millions of cycles. The use of definite purpose contactors to control heating is not acceptable.
- Thermostat will get temperature readings from tank via a dedicated thermocouple mounted in a dry well inside the tank.
- Tank shall feature a 20A GFCI rated convenience outlet mounted onto the control panel.
- Tank is equipped with two 3" ball valves with quick couplers for loading and unloading the tank. These valves are to be wrapped with 240 volt heat tape and then insulated to aid in cold weather operations. Insulation on the valves shall be silicon design and made to fit the valves. They will be held on by buckles and are easily removable for servicing the valves if necessary. Valve insulation using wool type insulation, covered with aluminum sheeting and held on with hose clamps will not be accepted. Valves also have provision to accept a padlock for added security. Shall also include a 3" insulated ball valve in the bottom of the tank on the low side of the slope to aid in cleanout.
- Tank to include a 10' long 3" diameter heavy duty rubber loader hose fitted on one end with a quick coupler which mates to the loading /un-loading valves, and the other end to be fitted with a steel 90 degree elbow fitting.
- Tank includes a top mounted mechanical paddle type agitation system, which is automatically controlled by a programmable agitation timer, which is included in this proposal. Timer will be pre-programmed at the factory. Manual activation of the agitator

shall be done without having to open electrical panel. The agitator speed shall not exceed 6 rpms to avoid whipping the emulsion and causing separation. Agitator drive shall be greasable from ground level. No tank that personnel have to climb to the top of the tank to grease will be accepted.

- Tank includes a material quantity gauge that is easily viewed from ground level. Graduations on tank shall be marked in 100 gallon increments.
- Tank and its components to have a one year warranty; excluding the concrete pad, incoming electrical service installation, and components which are supplied by independent contractors hired by the user agency (customer). Damages as a result of lightning strikes are not covered under warranty.
- Seller to provide a factory trained representative to assist in the installation and final operational preparations to ready the tank for operation. This representative will also provide complete operation and maintenance training to the customer.

- **There must be Parts and Service available in the State of Mississippi.**

- Foundation preparation, installation and wiring of the asphalt emulsion storage tank are not included and would be the responsibility of the customer. Any requirements necessary to meet ADEM or EPA regulations would also be the responsibility of the customer.

ITEMS TO BE SUPPLIED BY THE CUSTOMER FOR TANK INSTALLATION

- **Concrete pad as per the following specifications:**
  Pad to be 12' square, 10" thick concrete, reinforced with 1/2" rebar on 1' centers.
  Four lag plates are to be installed in the concrete pad at the time of the pouring and shall be 1/2" thick steel and 14 inches square. A complete foundation description, including diagram is included on an attached page.
- **Mobile crane or other lifting device** This lifting device will be needed to lift the tank and its stand off of the delivery trailer, move the tank into position over the pre-prepared concrete mounting pad, and finally lower the tank and stand into position on that pad.
- **A welding machine and welder** to weld the tank stand mounting legs to the weld flanges which have been installed into the concrete stand.
- **An electrical service line or cable** to be installed and run to the tank pad site capable of delivering 100 amps at 240 volts. This service line must meet all local codes and standards. This service line will be connected to the tank, at the appropriate time, by a qualified electrician.

DURA TANK

Suggested Slab Specifications for All DuraTank Vertical Asphalt Emulsion Storage Tanks

1. 12" thick slab with bottom reinforcing of #6 rebar at 9" spacing in both directions, and top reinforcing or #5 rebar at 5" spacing both directions. Clear cover of 2.25" should be provided to top rebar layer and 2.5" to bottom layer of rebar.

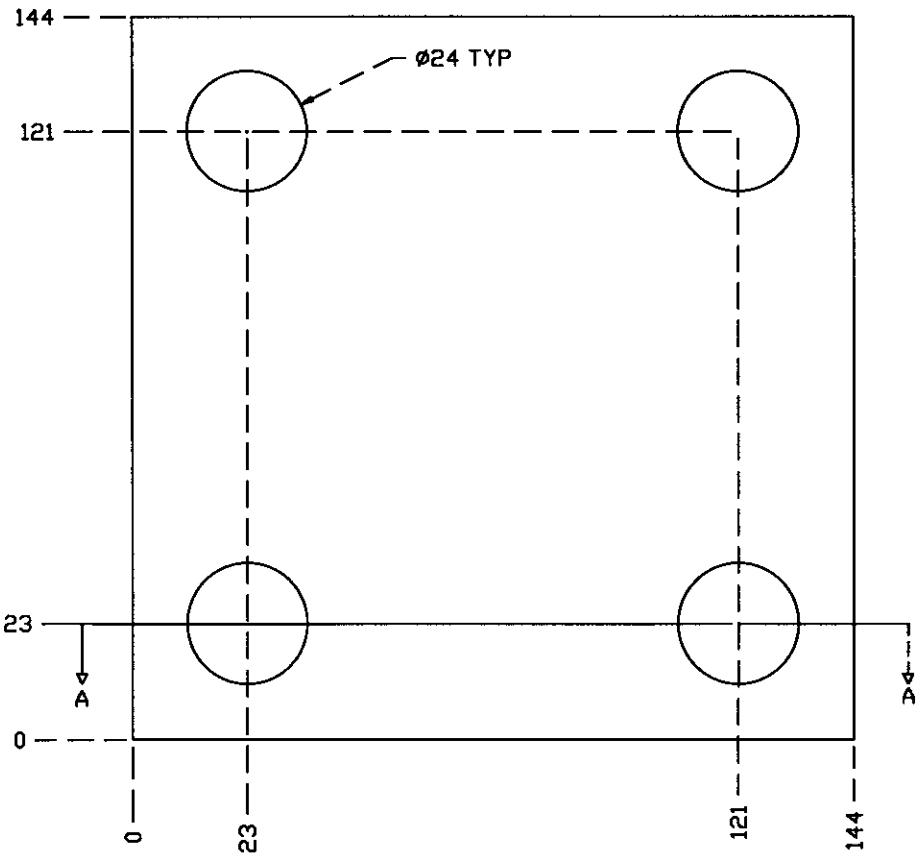
2. ½" thick 14" x 14" lag plates anchored to the slab via 4 #4 rebar per plate, embedded into slab. Due to the slab being 12" thick, put a 90 degree bend approximately 9.5" down and extend past the bend 4" minimum.

3. 2' diameter by 3' deep drilled shafts placed beneath the slab at each of the 4 legs to provide lateral support an extra dead load to resist potential uplift. 2' diameter shaft consists of 8 #7rebar vertically enclosed with a #3 spiral at 6" pitch. Vertical rebar should extend 6" minimum into slab.

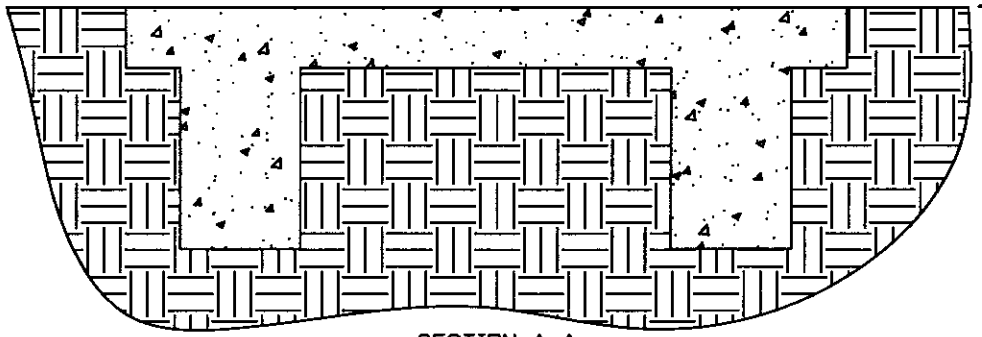
Above recommendations are made assuming 3,000 psi concrete and 60,000 psi reinforcing steel are used.

Foundation preparation, installation, and wiring of asphalt storage tank are not included and would be the responsibility of the customer. Any requirements necessary to meet ADEM or EPA regulations would be the responsibility of the customer.

This foundation plan is for **reference only**, Duraco highly recommends that the customer consult with their local building contractors and/or engineers to design a proper foundation to support the size DuraTank purchased for the site selected for installation and to meet local regulations.



SITE ELEVATION



SECTION A-A

EXCAVATION PLAN IS SUGGESTION ONLY. CONSULT LOCAL ENGINEERING FOR FINAL SLAB SPECIFICATIONS.

	NAME	DATE
DRAWN	B JONES	8/24/15
CHECKED		
APPR.		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES	X	XX	XXX
± .5	± .1	± .03	± .005

THIRD ANGLE PROJECTION

DURACO
2000 OLD WHITFIELD RD
PEARL, MS 39208 USA
www.durapatcher.com
DURA TANK

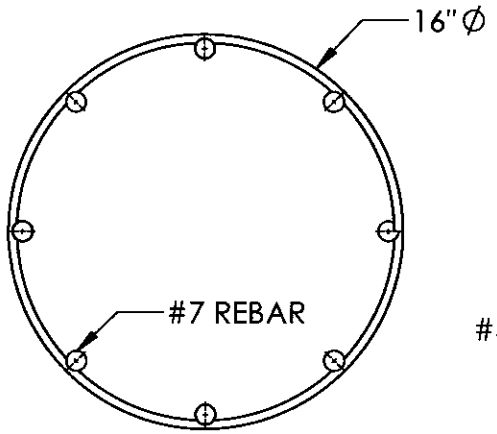
PROJECT:

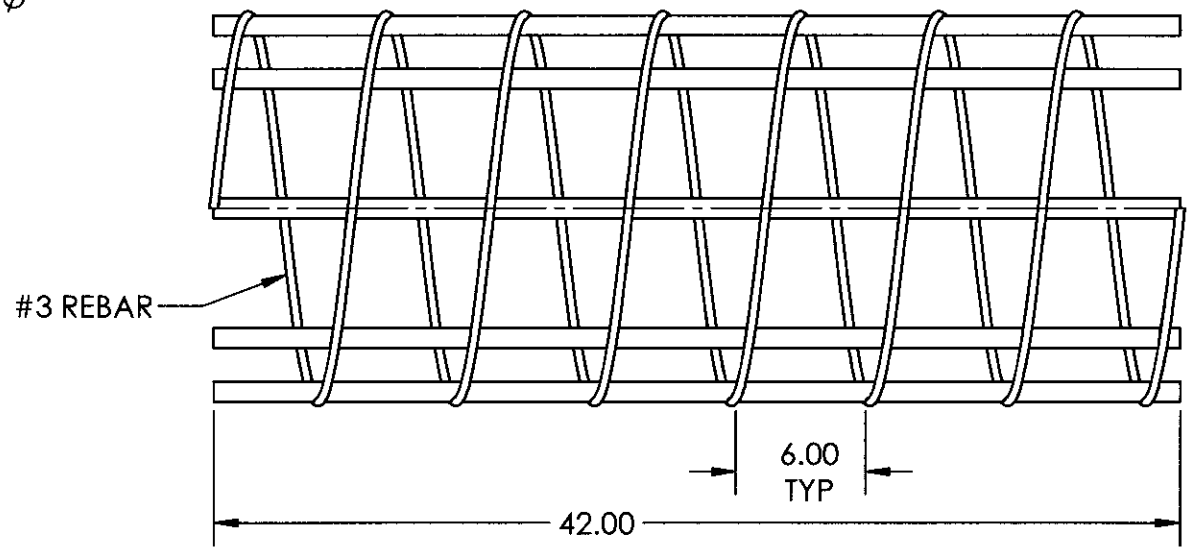
DESCRIPTION:

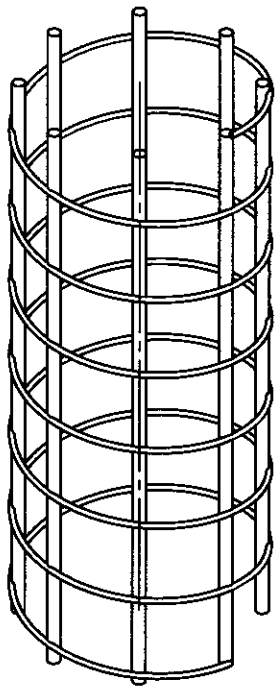
DURATANK SLAB EXCAVATION DRAWING

SIZE	DWG. NO.	REV
B		A

SCALE: NONE	WEIGHT: XX.XLBS	SHEET 1 OF 1







*NOTE: .375" START LENGTH FOR #3 REBAR.
WELD, TIE, OR CRIMP SLICE PERMISSIBLE.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL± 1/64
ANGULAR: MACH± .25 BEND ± .5
ONE PLACE DECIMAL ± .020
TWO PLACE DECIMAL ± .010
THREE PLACE DECIMAL ± .005
REMOVE ALL BURRS AND SHARP EDGES
INTERPRET GEOMETRIC TOLERANCING PER ANSI/ASME Y14.5M-1994
MATERIAL
FINISH
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	D JONES	28MAY15
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

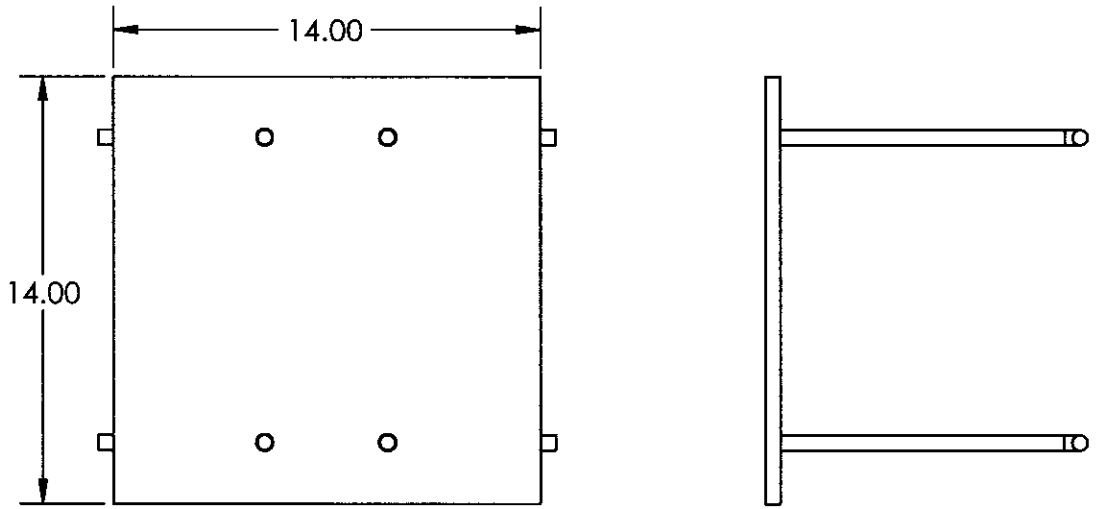
COMMENTS:

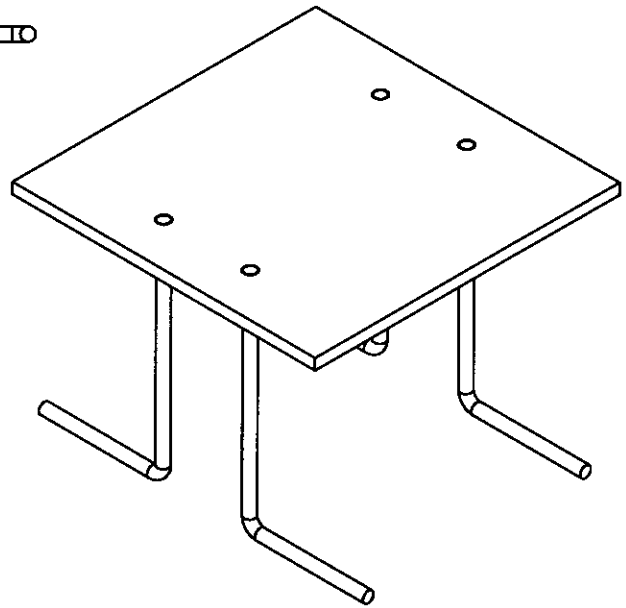
DURAPATCHER
DURACO
2000 OLD WHITFIELD RD
PEARL, MS 39208 USA
www.durapatcher.com

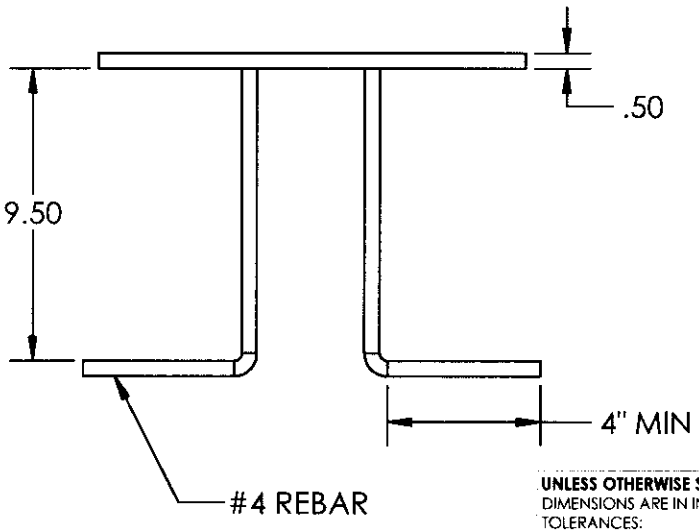
TITLE:
SUGGESTED REBAR PILLAR

SIZE	DWG. NO.	REV
A	REBAR PILLAR	-

SCALE: 1:12 WEIGHT: SHEET 1 OF 1







UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/64
ANGULAR: MACH ± .25 BEND ± .5
ONE PLACE DECIMAL ± .020
TWO PLACE DECIMAL ± .010
THREE PLACE DECIMAL ± .005
REMOVE ALL BURRS AND SHARP EDGES
INTERPRET GEOMETRIC TOLERANCING PER ANSI/ASME Y14.5M-1994
MATERIAL
FINISH
DO NOT SCALE DRAWING

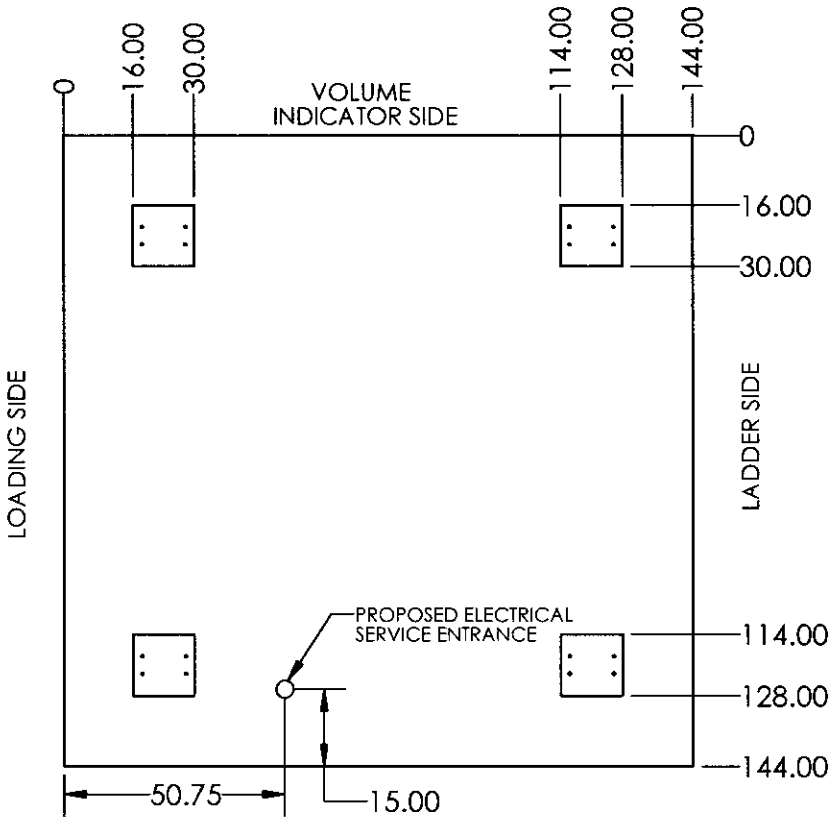
	NAME	DATE
DRAWN	D JONES	1OCT14
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

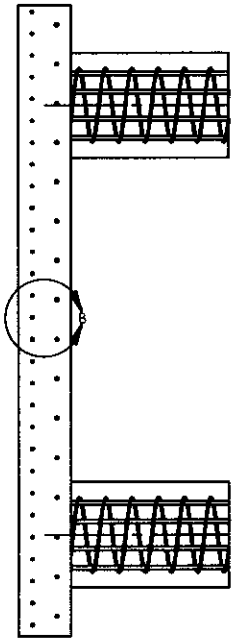
DURACO
2000 OLD WHITFIELD RD
PEARL, MS 39208 USA
www.durapatcher.com

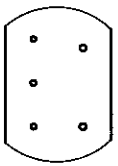
TITLE: LAG PAD ANCHOR ASSEMBLY

SIZE DWG. NO. REV
A 408590 -

SCALE: 1:6 WEIGHT: SHEET 1 OF 1



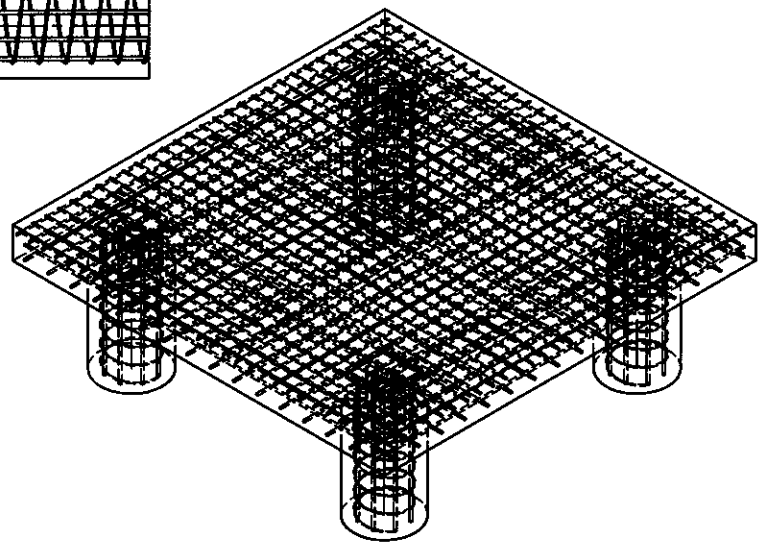


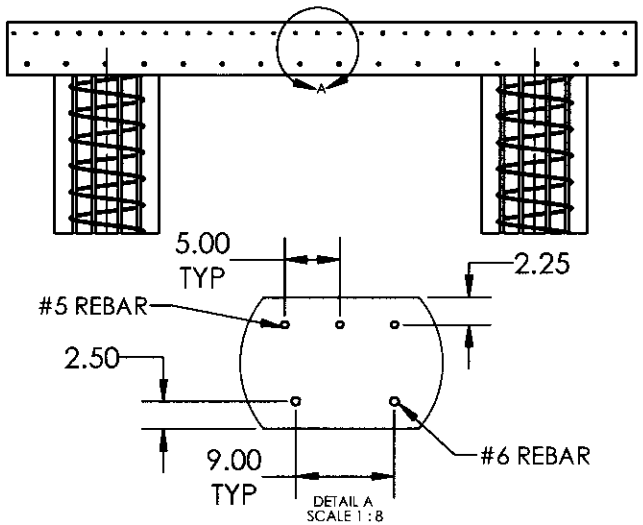


DIMENSION SAME
AS DETAIL A

DETAIL B
SCALE 1 : 10

ORIENT ELECTRICAL SERVICE
LOCATION TO BEST SUIT
INTENDED TANK DIRECTION
AT SPECIFIC SITE.





DETAIL A
SCALE 1 : 8

SUGGESTED SLAB
SPECIFICATION ONLY.
CONSULT LOCAL
ENGINEERING FOR FINAL
SLAB SPECIFICATIONS.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONALS ± 1/64
ANGULAR: MACH ± .25 BEND ± .5
ONE PLACE DECIMAL ± .020
TWO PLACE DECIMAL ± .010
THREE PLACE DECIMAL ± .005
REMOVE ALL BURRS AND SHARP EDGES
INTERPRET GEOMETRIC
TOLERANCING PER ANSI/ASME Y14.5M-1994
MATERIAL: SEE NOTES
FINISH: SEE NOTES
DO NOT SCALE DRAWING

PROPRIETARY AND CONFIDENTIAL
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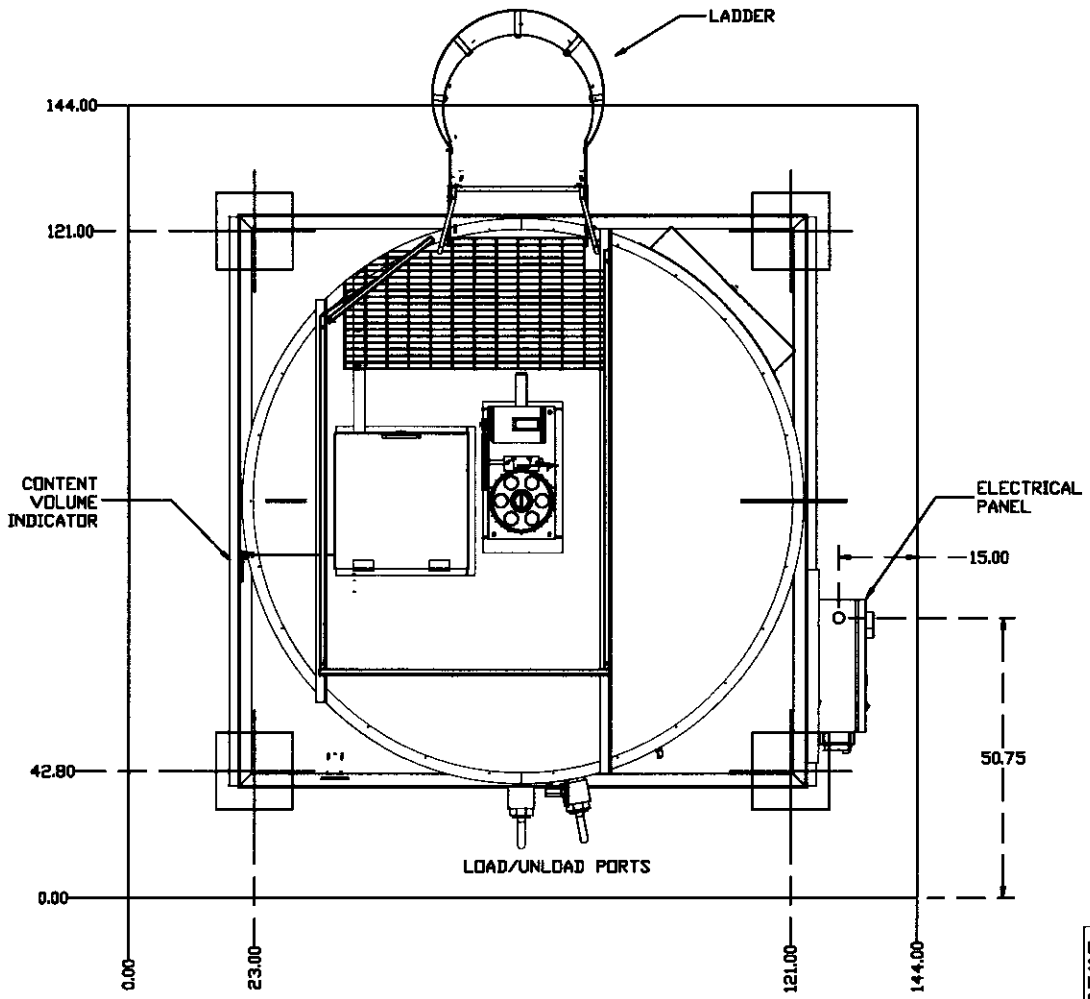
	NAME	DATE
DRAWN	D JONES	28MAY15
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

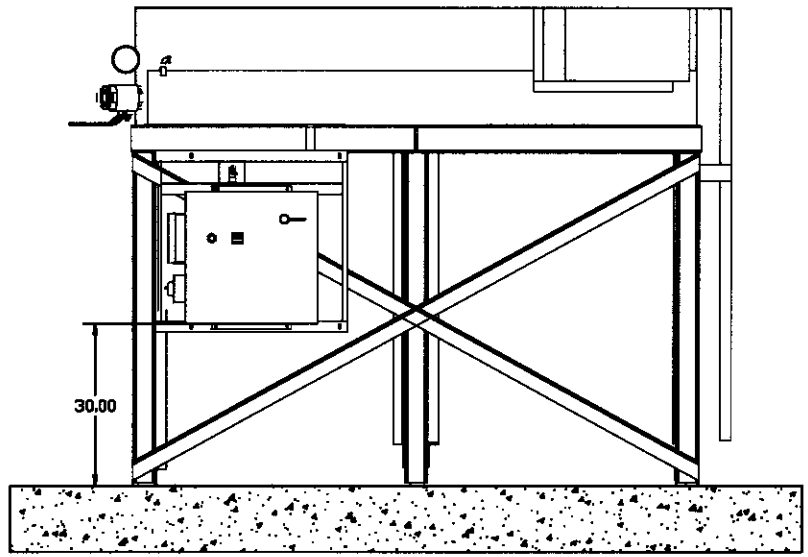
DURATCHER
DURACO
2000 OLD WHITFIELD RD
PEARL, MS 39208 USA
www.duratpatcher.com

TITLE:
REBAR PROFILE FOR VERTICAL
STORAGE TANK SLAB

SIZE	DWG. NO.	REV
C	DURATANK SLAB	-

SCALE: 1:20 WEIGHT: SHEET 1 OF 1





*NOTE: STANDARD STAND SHOWN.
EXTENDED HEIGHT STAND DOES NOT
CHANGE ELECTRICAL PANEL HEIGHT.

ORIENT ELECTRICAL SERVICE
LOCATION TO BEST SUIT
INTENDED TANK DIRECTION
AT SPECIFIC SITE.

EXCAVATION PLAN IS SUGGESTION ONLY. CONSULT LOCAL ENGINEERING FOR FINAL SLAB SPECIFICATIONS.

DURACO
2000 OLD WHITFIELD RD
PEARL, MS 39208 USA
www.durapatcher.com
DURA TANK

	NAME	DATE
DRAWN	B JONES	8/8/2015
CHECKED		
APPR.		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES	X	XX	XXX
± .5	± .1	± .03	± .005

THIRD ANGLE PROJECTION

PROJECT:

DESCRIPTION:
DURATANK SLAB
FINAL DRAWING

SIZE	DWG. NO.	REV
B		A

SCALE: NONE	WEIGHT: XX.XLBS	SHEET 1 OF 1

PMG

PATCHER

T SERIES

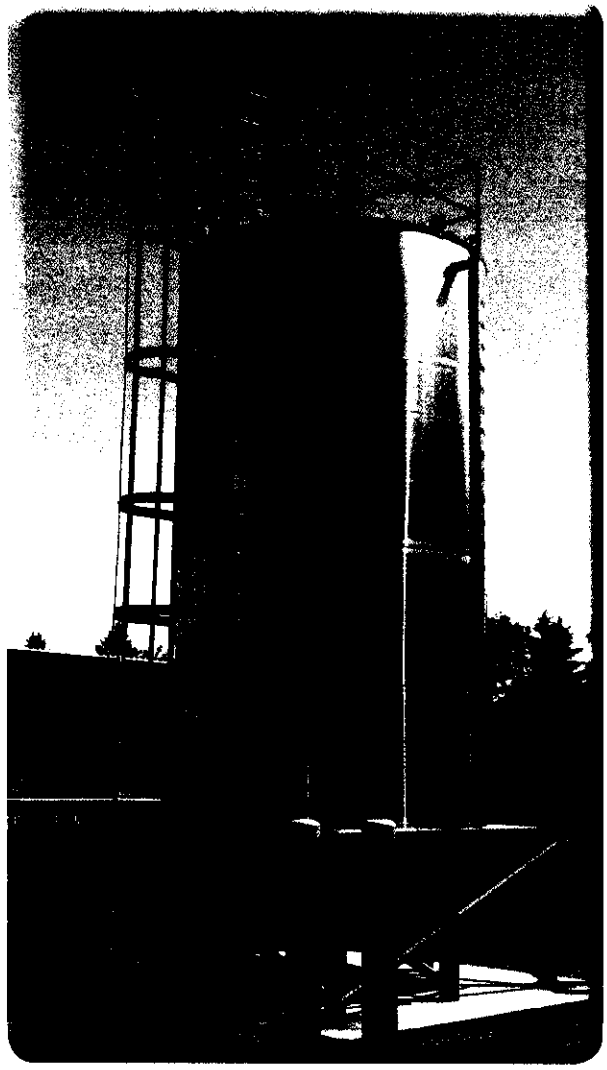
- **Efficient Blanket Heating**
- **Robust Design**
- **Timed Paddle Agitator**
- **Simple & Safe Operation**

Become self-sufficient in your patching and chip seal programs by installing a stationary emulsion storage tank. Convenient access to properly heated emulsion is critical to streamline the short patching and chip seal season. On-demand supply of emulsion keeps crews out working and not driving to the emulsion plant. Tanks are available in capacities from 3,000 to 10,000 gallons.

Efficient blanket heating: DuraPatcher utilizes 1,000 watt electric blankets for even trouble free heating. Blanket heating is superior to probe heating because it eliminates material build up issues and allows the tank to be preheated prior to filling. 240VAC single phase power minimizes power consumption and makes for an easy hook up.

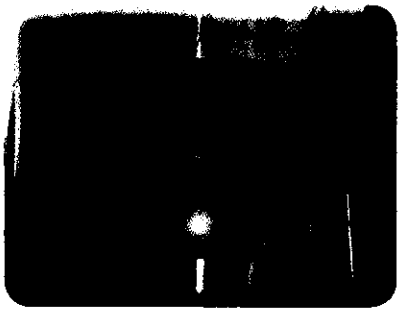
Robust design: All tanks are constructed using ¼ inch carbon steel for long life and durability. 3 inches of foil backed insulation keeps the heat inside and minimizes operating costs. The aluminum outer skin provides resistance to the elements and protects your investment for years to come.

Safety and accessibility: All tanks include a ladder and heavy duty manway and rail system. Maintenance greasing, loading and unloading processes are all performed from ground level. All tanks also include a 24" inspection door to access heating. Choose the standard 5ft 5 inch height stand or the optional 8 ft for filling truck mounted models.

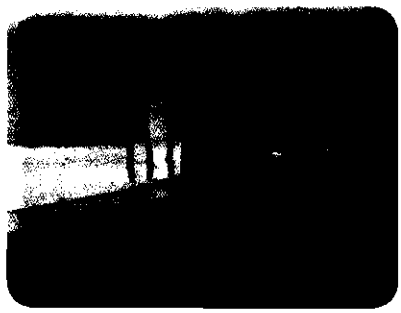


Agitator and control system: The digital control system makes programming and operation quick and easy. The specially designed agitator provides just the right amount of agitation and minimizes over mixing. The Timer allows the operator the flexibility to choose the time and days for agitation. The standard material tank gauge is easy to read from ground level and is calibrated in 100 gallon increments.

Dual insulated and heated valves

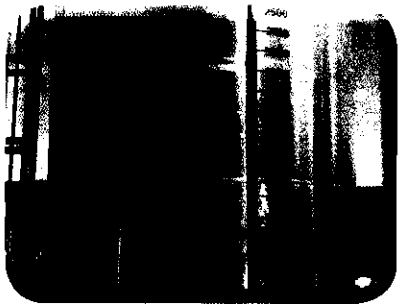


Large 24" inspection door

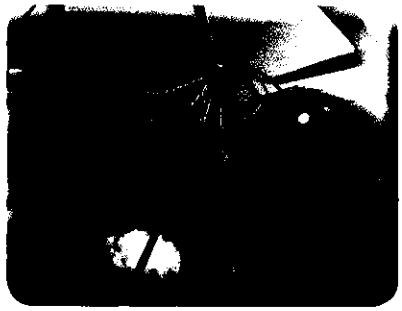


Perform service from ground level

Safety railing



Tank contents gauge

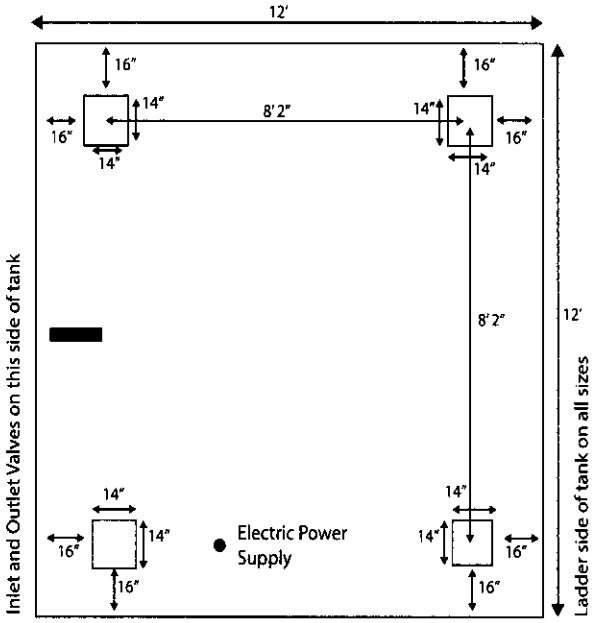


Ladder manway

SPECIFICATIONS:

Emulsion Capacity (US gallons):	3,000 to 10,000
Heating Method: (240VAC Single Phase) 240VAC 3 Phase and 480VAC Options also available.	1,000 watt electric blankets (number varies based on size) (4 blankets)- 3,000 to 5,000 gallon models (6 blankets)- 6,000 to 8,000 gallon models (8 blankets)- 10,000 gallon model
Delivery System:	Gravity no pump standard, pump system optional
Loading Hose:	3 in. x 8 ft. (quick couplers)
Tank Construction:	¼ in. carbon steel
Insulation:	3 in. foil backed
Valves:	(2) 3 in. heated and insulated
Tank Cleanout Valve:	3 in. insulated in bottom of tank
Agitator:	Paddle type, 6 rpm or less, Timed
Inspection Hatch:	24 in. insulated. Ladder rail system & manway included
Support Stand Height:	5 ft. 5 in. (8 ft. option available)
Material Gauge:	Mechanical float type 100 gallon increments
Warranty:	One Year Limited

Due to continuous improvement, specifications are subject to change without notice.



End user responsible for pad construction, tank unloading, and jobsite electrical.

Distributed By:

HINES CORPORATION COMPANY

PMG

FULL PRODUCT LINE

cimlinepmg.com

800-328-3874