ATK

Automated Ticketing Kiosk

Installation Manual

RICE LAKE®
WEIGHING SYSTEMS
To be the best by every measure®

93478 Rev A

Contents

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1.0 Introduction

This manual is intended for use by technicians responsible for installing and servicing the ATK Automated Ticketing Kiosk System.

Authorized distributors and their employees can view or download this manual from the Rice Lake Weighing Systems distributor site at **www.ricelake.com**.

Standard features include:

- Accommodation of most models of thermal transfer printers.
- Circuit breaker protected AC power management (instead of fuse)
- Custom-engineered riser plates ensure proper positioning of printer.
- Weather-resistant ticket access door with drain holes.
- Media storage and tool hangers inside the enclosure.
- Locked door secures printer.
- Access panel for printer front panel buttons/display.

Recommended accessories include:

- Truck ID
- Traffic lights
- LaserLight M-Series Remote Messaging Display
- Scale interface
- Printer

Rice Lake's ATK Automated Ticketing Kiosk System can be used in a single- or multi-kiosk configuration.

Single Configuration

The single configuration can be used for both the weigh-in and weigh-out functions. Trucks can proceed directly to the scale without the driver ever having to exit the vehicle. Tare weights can be established as often as required, per transaction, or set up to expire after a longer period of time. The driver may interact with the kiosk to change load information such as customer, job, destination, or product. After the truck is loaded, it returns to the scale and weighs out using the same kiosk to capture the truck's loaded weight and print the ticket.

Multi-Kiosk Configuration

The multi-kiosk configuration uses standard, non-printing kiosks as well as ticket printing kiosks, scales, and silo load-out systems to automate the loading of material in the trucks. Trucks check in to the yard and are directed to the correct location, depending on the required product or dumping area. Lane verification kiosks check to ensure the truck is at the correct location before allowing the loading or unloading process to begin. The truck is weighed and the ticket is saved to a ticket stack. When the driver reaches the print ticket kiosk, the ticket is retrieved from the stack and printed.

There are five ways to access the kiosk system:

- RFID Card Reader
- Number Keypad
- Number Keypad/Card Reader
- Smart Pass Antenna
- Smart Pass and HID Tags

RFID Card Reader | Number Keypad | Number Keypad/ Card Reader | Smart Pass Antenna | Smart Pass and HID Tags

Figure 1-1. ATK Access Options

2.0 Installation

The ATK Automated Ticketing Kiosk System consists of three units:

- ATK Printer Kiosk
- ATK Load Assignment Kiosk
- ATK Vehicle ID Kiosk

Note *Depending on your individual needs, you may have a setup consisting of one, two, or all three units. You may also have more than one of each unit being installed along with accessories such as traffic lights or remote messaging display.*

2.1 Installing the Printer Kiosk

The printer kiosk is designed to accommodate a wide variety of commonly used printers. It is shipped without a printer to allow the selection of a printer that would be most beneficial.

Installation consists of three processes: mounting the unit, installing the desired printer, and connecting power and Ethernet/serial cable.

2.1.1 Installing the Printer

Depending on which printer is selected, printer installation within the ATK Printer Kiosk may vary. Consult individual printer documentation to ensure the printer is installed correctly.

Accessing the Printer

Once the printer is installed, it can be accessed via the front panel printer access door. This sliding door is locked from the inside; a security pin must be pulled to release the lock; while the pin is being pulled, the door can be slid upwards. The pin is located inside the kiosk, at the top of the access door (see Figure 2-1).

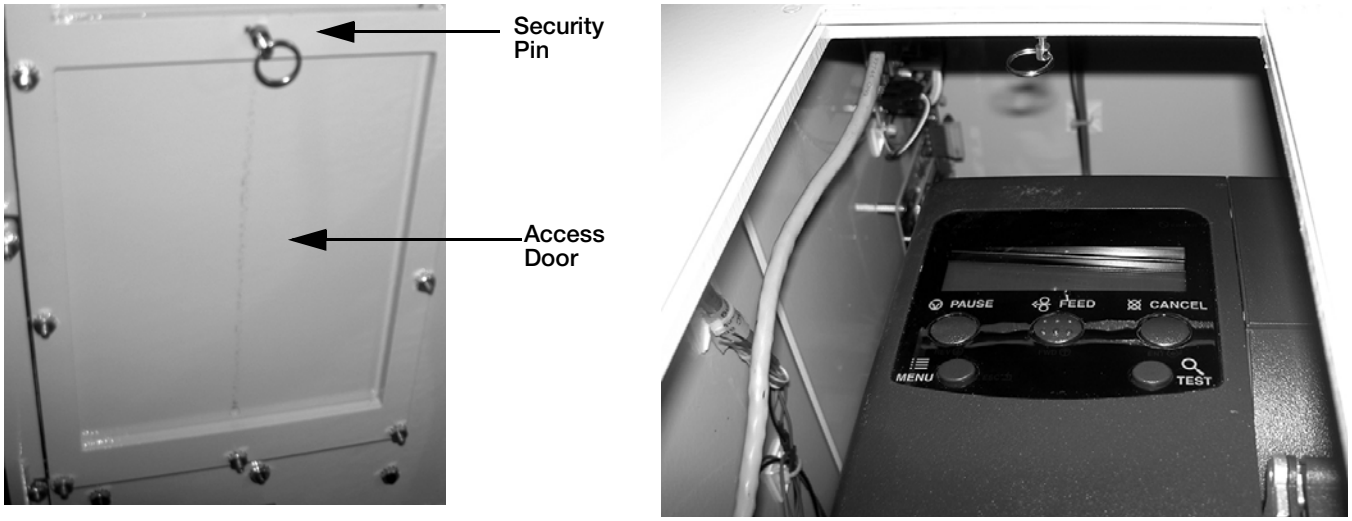


Figure 2-1. In-kiosk security pin release for printer access door (left); Printer revealed with access door raised (right)

2.1.2 Connecting Power and Ethernet/ Serial Cable

WARNING *To avoid shock or serious injury, consult a licensed electrician for any electrical installation procedure.*

Connecting the Ethernet Cable

1. Locate the Ethernet card mounted in the upper-left corner of the long kiosk wall.
2. Connect the Ethernet cable to the jack.

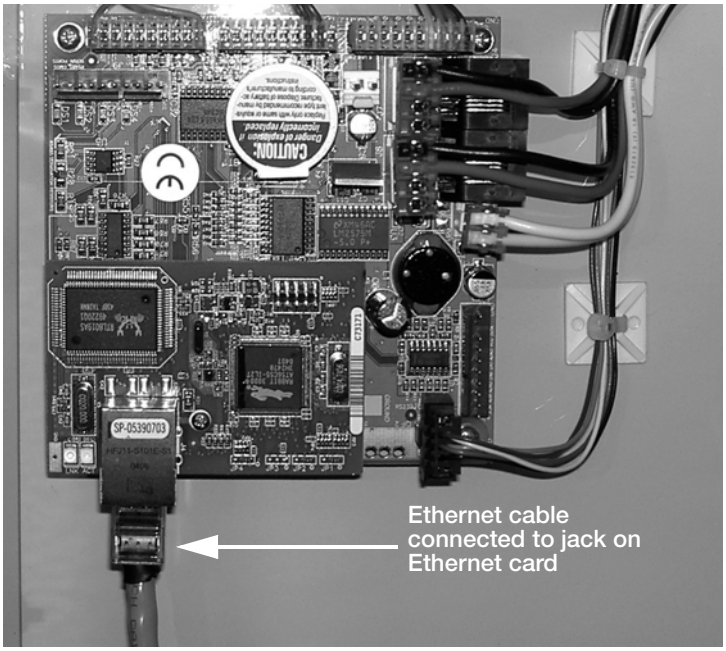


Figure 2-2. Ethernet Cable Connection

2.2 Installing the Load Assignment Kiosk

Once the load assignment kiosk is mounted in its desired position, the power and Ethernet cables need to be connected. Refer to *Figure 2-3* for the location of these connections, and plug in the power and Ethernet cables accordingly. The rest of the wiring comes pre-connected.

WARNING *To avoid shock or serious injury, consult a licensed electrician for any electrical installation procedure.*

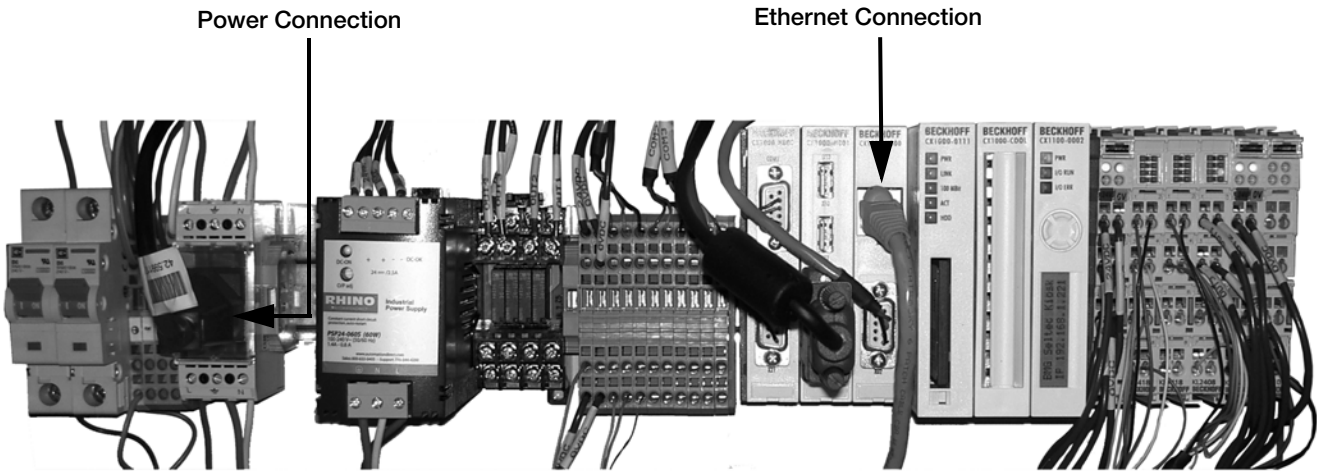


Figure 2-3. Power and Ethernet connections

3.0 Check-In And Check-Out Procedures

There are several check-in and check-out methods using the ATK Kiosk System (RFID card reader, number keypad, number keypad/card reader combo, smart pass antenna, smart pass and HID tags).

3.1 RFID Card Reader

Radio frequency identification (RFID) stores and retrieves data by using a special RFID card/badge.

Figure 3-1. RFID card reader

To check-in or check-out using this method:

1. Come to a complete stop and place the RFID badge in front of the card reader (See Figure 3-1).
2. When the badge has been read successfully, the LED lights change from red to green.
3. Proceed to the appropriate location.

3.2 Number Keypad

The number keypad uses a personal identification number (PIN) to store and retrieve data.

Figure 3-2. Number keypad

To check-in or check-out using this method:

1. Come to a complete stop and use the numeric keypad to enter your personal identification number (PIN).
2. Proceed to the appropriate location.

3.3 Number Keypad/RFID Card Reader

Some kiosk systems are equipped with a combination number keypad/RFID card reader, providing the option of using either method described in Section 3.1 or Section 3.2 for storing and retrieving data.

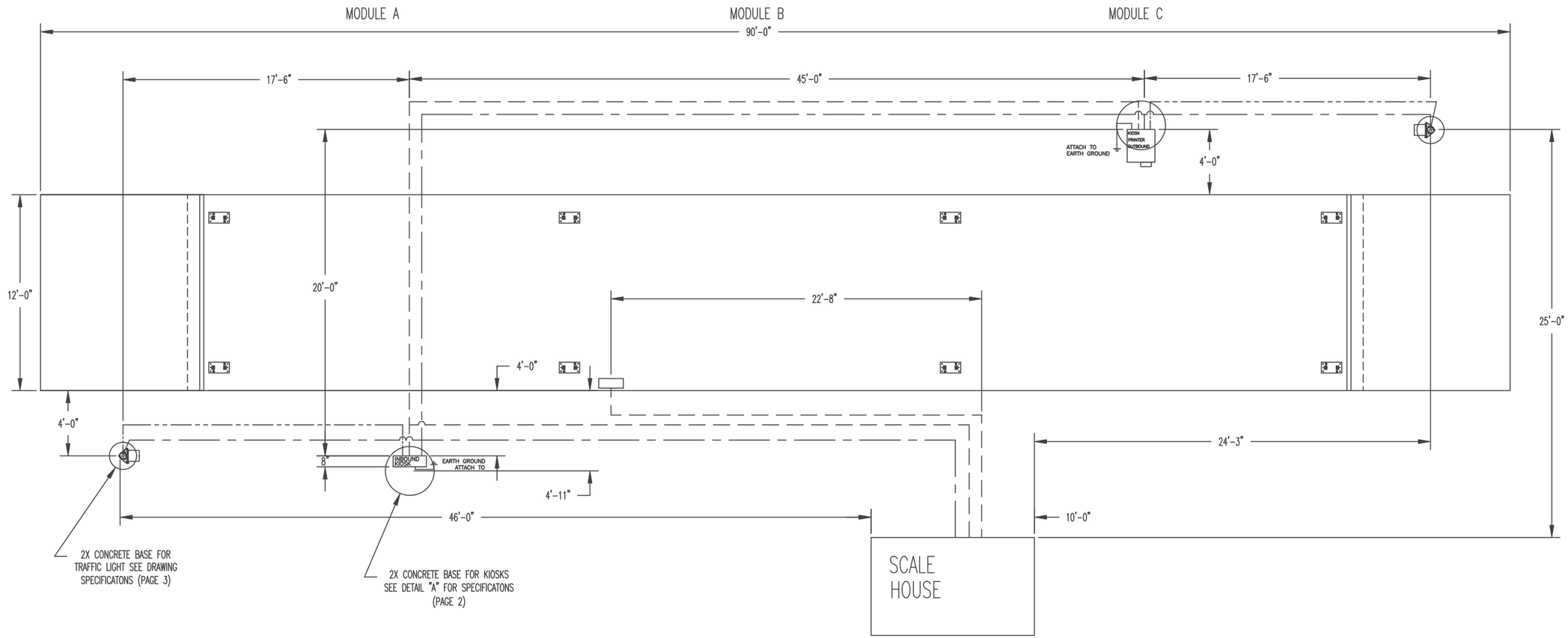
Figure 3-3. Number keypad/RFID combo

3.4 Smart Pass Antenna

The Smart Pass Antenna allows drivers to check-in and check-out without stopping. It automatically detects vehicles containing Smart Pass Access Cards at speeds up to 70 mph.

4.0 Foundation Drawings

REVISIONS			
REV	REFERENCE	INIT	DATE



NOTE: THESES DRAWINGS ARE GENERAL GUIDELINES. WORK AND MATERIAL SHOULD CONFORM TO LOCAL ORDINANCES.

1" CONDUIT FOR 3 WIRE CABLE

1" CONDUIT FOR CAT6 ETHERNET CABLE

PVC CONDUIT FOR 120VAC POWER

UNLESS OTHERWISE SPECIFIED
UNITS TO BE INCHES
ALL THREADS TO BE CLASS 2
ALL DIMENSIONS APPLICABLE AFTER TREATMENT

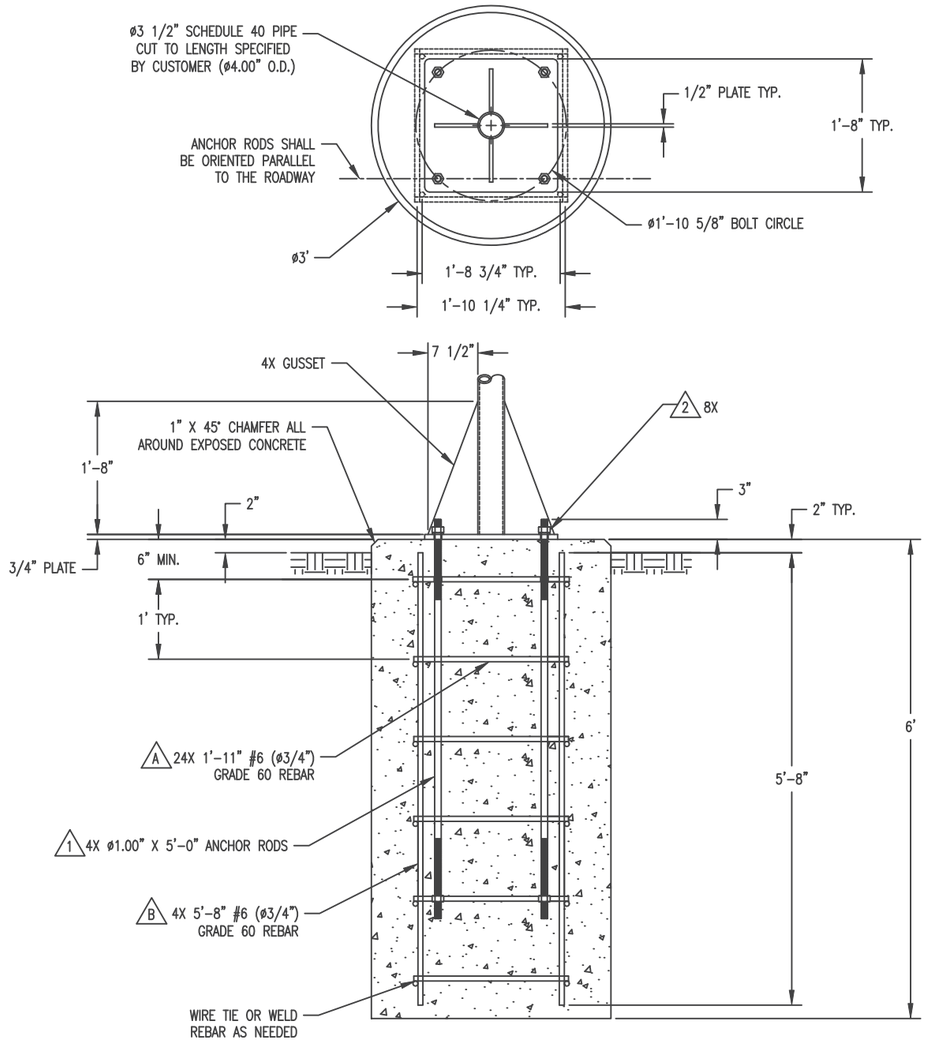
MATERIAL: N/A
TREATMENT: N/A
DO NOT SCALE DRAWING | DRAWING TOLERANCES UNLESS OTHERWISE SPECIFIED
FOR RLWS USE ONLY | SURFACE FINISH | TOL. | DECIMAL
2 PLC ---
3 PLC ---
ANGLE ---
THIRD ANGLE PROJECTION
MFG.ENG. APPROVED
DES.ENG. APPROVED
CKD.
DR.BY DFH 7/5/05

TITLE: CONDUIT ROUGH DIMENSIONS BMG SELTEC

RICE LAKE WEIGHING SYSTEMS

DWG NO: EP05002G
SCALE
SHEET 1 OF 4
REVISION NEW

REVISIONS			
REV	REFERENCE	INIT	DATE



REBAR SCHEDULE				
	QUANTITY	BAR SIZE	LENGTH & DESCRIPTION	WEIGHT
A	24	#6	1'-11" HORIZONTAL MEMBERS	70 LBS.
B	4	#6	5'-8" @ VERTICAL MEMBERS	35 LBS.

CONCRETE REQUIREMENTS:
ø3' X 6' DEEP IS APPROXIMATELY 1.6 YDS^3

NOTE:

1. ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD, ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).
2. WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.
3. WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.
4. BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).
5. THIS DRAWING IS FOR GENERAL GUIDELINE PURPOSES. ALL WORK AND MATERIAL SHOULD CONFORM TO LOCAL ORDINANCES.

UNLESS OTHERWISE SPECIFIED
UNITS TO BE INCHES
ALL THREADS TO BE CLASS 2
ALL DIMENSIONS APPLICABLE AFTER TREATMENT

DO NOT SCALE DRAWING
DRAWING TOLERANCES UNLESS OTHERWISE SPECIFIED
FOR RLWS USE ONLY
SURFACE FINISH
TOL. DECIMAL
2 PLC ---
3 PLC ---
ANGLE ---

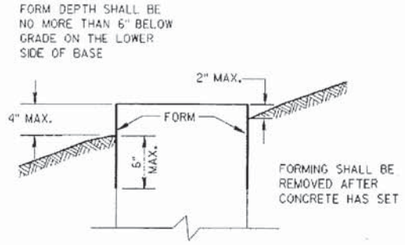
MATERIAL: N/A
TREATMENT: NONE
THIRD ANGLE PROJECTION
MFG.ENG. APPROVED
CKD.
DES.ENG. APPROVED
DR.BY DFH 7/5/05
SCALE
SHEET 2 OF 4
REVISION NEW

TITLE: CONCRETE BASE, KIOSKS
BMG SELTEC

RICE LAKE WEIGHING SYSTEMS

DWG NO EP05002G

REVISIONS			
REV	REFERENCE	INIT	DATE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

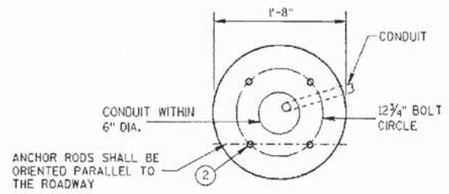
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

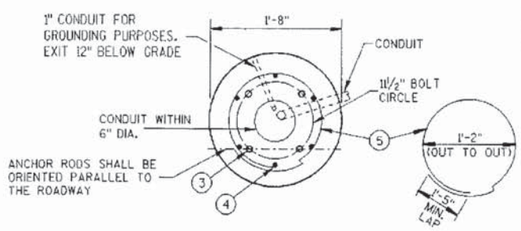
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

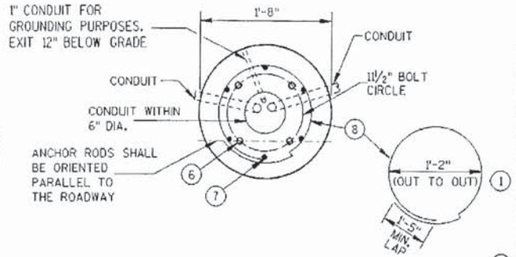
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

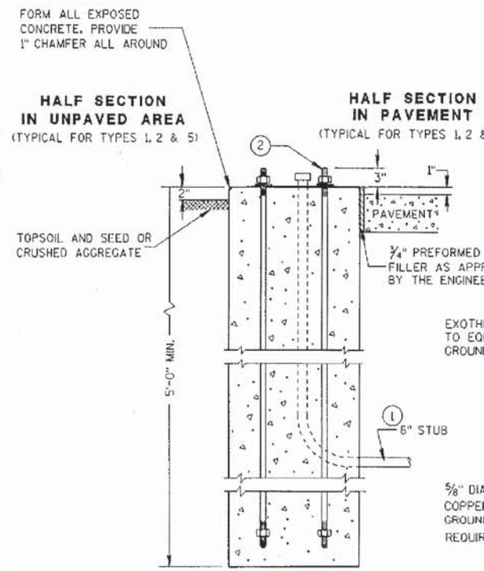
(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.









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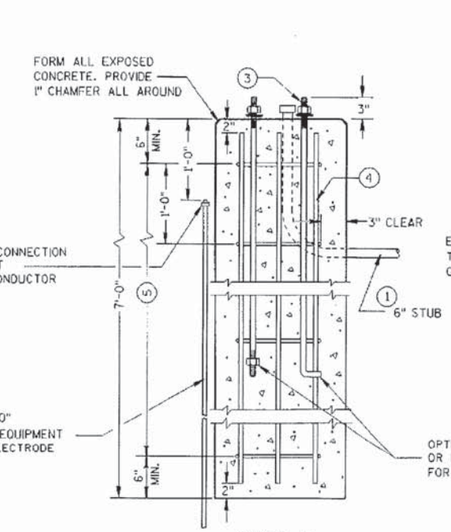

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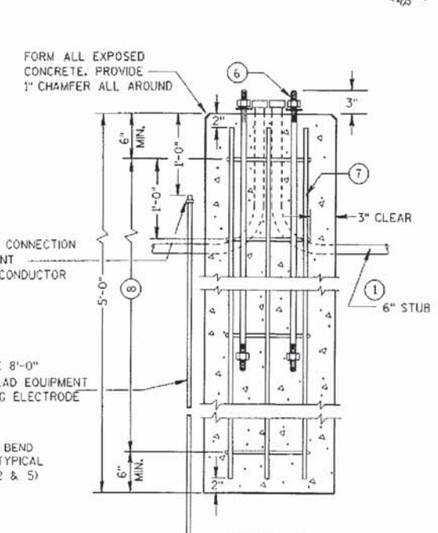

TYPE 5

CONCRETE BASES

MATERIAL: N/A	UNLESS OTHERWISE SPECIFIED: UNITS TO BE INCHES; ALL THREADS TO BE CLASS 2; ALL DIMENSIONS APPLICABLE AFTER TREATMENT	THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS AND REMAINS THE PROPERTY OF RICE LAKE WEIGHING SYSTEMS INC. AND IS CONFIDENTIAL. IT IS SUBMITTED AND MAY BE USED ONLY IN CONNECTION WITH RICE LAKE WEIGHING SYSTEMS' PROPOSAL AND/OR ITS CUSTOMERS' ORDERS. IT SHALL NOT BE DISCLOSED TO OTHERS OR COPIED WITHOUT RICE LAKE WEIGHING SYSTEMS' SPECIFIC WRITTEN CONSENT AND SHALL BE IMMEDIATELY RETURNED UPON REQUEST.
TREATMENT: NONE	DO NOT SCALE DRAWING; FOR RLWS USE ONLY	DRAWING TOLERANCES UNLESS OTHERWISE SPECIFIED: SURFACE FINISH; TOL. DECIMAL 2 PLC ---, 3 PLC ---, ANGLE ---	TITLE: CONCRETE BASES, TRAFFIC LIGHT BMG SELTEC
THIRD ANGLE PROJECTION	MFG ENG. APPROVED; DES ENG. APPROVED; CAD	DR BY: DFH 7/5/05	RICE LAKE WEIGHING SYSTEMS; DWG NO: EP05002G
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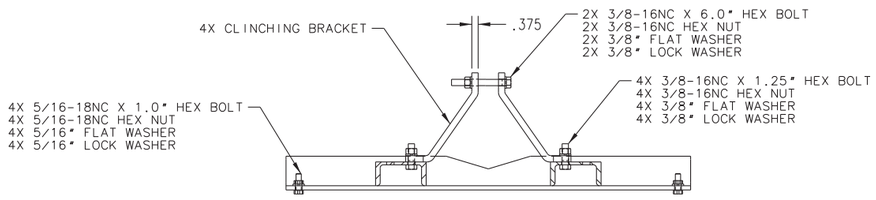
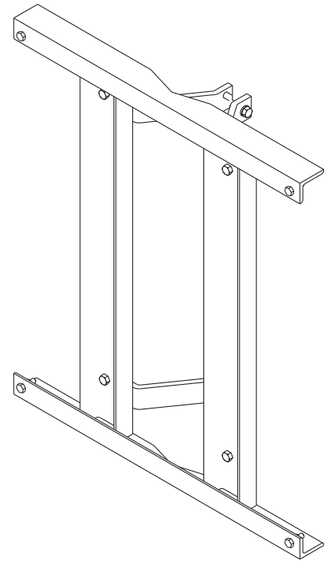
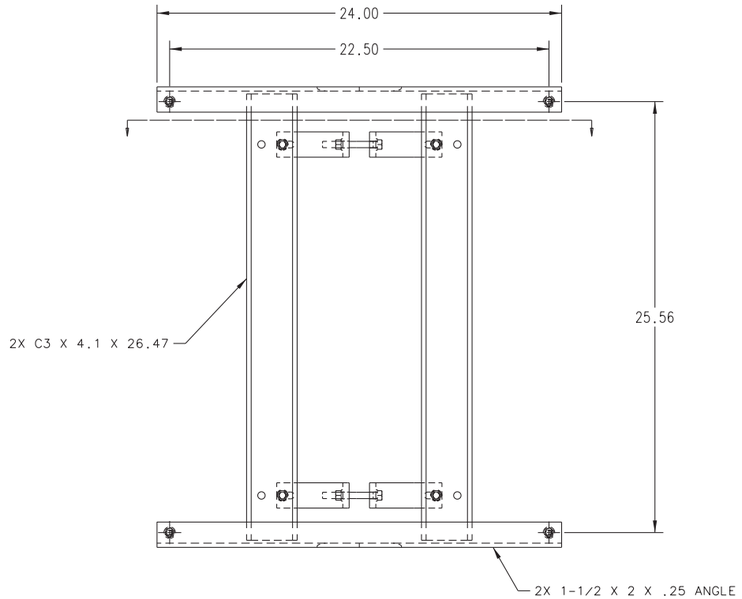
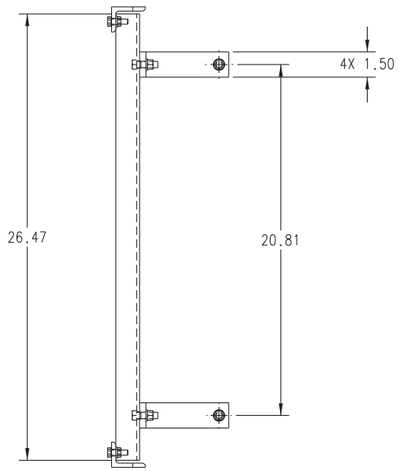
			REVISION: NEW

REVISIONS			
REV	REFERENCE	INIT	DATE









UNLESS OTHERWISE SPECIFIED
UNITS TO BE INCHES
ALL THREADS TO BE CLASS 2
ALL DIMENSIONS APPLICABLE AFTER TREATMENT

MATERIAL: SEE BILL OF MATERIAL	DO NOT SCALE DRAWING	DRAWING TOLERANCES UNLESS OTHERWISE SPECIFIED	
TREATMENT: NONE	FOR RLWS USE ONLY: 0	SURFACE FINISH: ---	TOL. / DECIMAL: 2 PLC ---, 3 PLC ---, ANGLE ---
THIRD ANGLE PROJECTION	MFG ENG. APPROVED	DES. ENG. APPROVED	QUO.
	DR. BY: DFH 7/6/05	SCALE: N/A	SHEET: 4 OF 4

TITLE: POLE MOUNTING KIT, KIOSK
BMG SELTEC

RICE LAKE WEIGHING SYSTEMS

DWG NO: EP05002G

REVISION: NEW

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