

K & K SYSTEMS, INC.
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FEATURES	
Solar Power	Solid State Electronics
NCHRP 350 Crash Tested & Accepted	
Meets MUTCD & ITE Standards	
Set Up In 1-2 Hours	
Custom Systems Available	
MOUNTING CAPABILITIES	
U-Channel Post	
Aluminum Post	
Wooden Post	
Metal Post	
Square Tubing	
POST OPTIONS	
Aluminum	
U-Channel	

Model 112 (School Zone Flasher)

MODEL 112 SPECIFICATIONS**12" Double Amber LED School Zone Flasher (Meets MUTCD & ITE Standards)****Solar Panel**

- Maximum Power (P max) 40 W
- Voltage at Pmax (V mp) 17.4 V
- Current at Pmax (IMP) 2.48 A
- Short-Circuit Current (Isc) 2.65 A
- Open-Circuit Voltage (Voc) 21.7 V

Solid State Regulator**Electrical Specifications:**

- Voltage: 12/24V
- Rated Solar Input: 15A
- Rated Load Current: 15A
- Regulation Voltage:
 - Sealed Battery: 14.1V
 - Flooded Battery: 14.4V
- Low Voltage Disconnect: 11.1V
- Low Voltage Reconnect: 13.1V
- Self-Consumption: 61 mA
- Operating Temp. -35 to +55°C

Traffic Hazard Beacons**Housing:**

- 12" light housing plastic injected molded polystyrene tufo u.v. impregnated material for ultra violet rays

LED:

- Color Amber
- Applied Voltage 12VDC
- Power Consumption (watts) 5
- Dominant Wavelength (nm) 592
- On Axis Luminous Intensity (Min) 350 cd
- LEDs per signal lamp 121
- Intensity loss due to single LED failure .83%
- Operation Temperature -40°F to +165°F

Solid State Flasher

- Input voltage of 12 VDC
- Flash rate 60 F.P.M.
- Input voltage of 12 VDC (2 terminals)
- Two outputs of 12 VDC (4 terminals)
- Capable of switching 5 amps @ 12 VDC
- Input and output terminals 1/4 male quick connect
- Epoxy encapsulated construction
- Flasher is 3" x 1½", two outer mounting holes

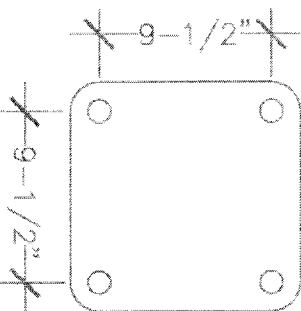
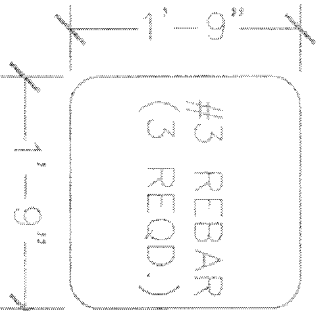
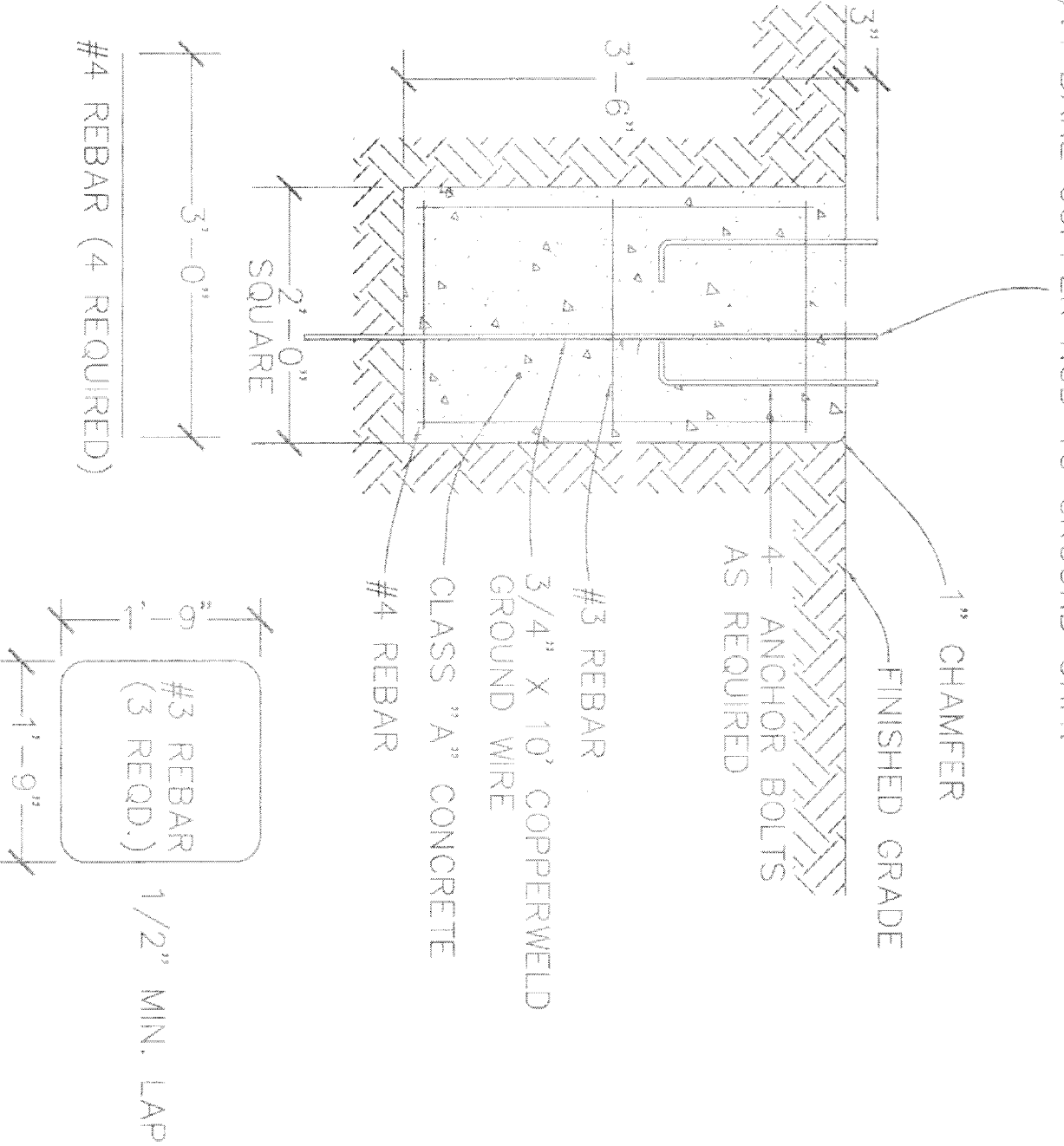
Control Cabinet/Battery

- Cabinet is 24" x 15" x 9", .080, aluminum, "lockable", to be located per state specifications.
- Recommended battery shall be 100 amp deep cycle marine. **(Options Available)**
- Signage and pole. **(Options Available)**

Programmable Timer Module

- 500 Program Steps – Steps may be assigned to any program for a total of 500 steps.
- 32 Programs – Main program plus 31 alternate programs that are called by the exception periods.
- 63 Exception Periods – Periods that call alternate programs.
- Programmable Momentary Outputs – Timed outputs from 1-250 seconds.
- 1, 2 or 4 Relay Options – 16A 30VDC/250VAC
- Nonvolatile Memory – Retains program data with loss of power.
- Clock Capacitor Backup – Powers clock during power loss.
- DC and Backup Power Clock Accuracy - +/- 0.002% at 78F
- Synchronous Timing on AC Power
- Automatic Leap Year Compensation
- Automatic Daylight Savings Time Compensation – User programmable.
- Unit to Unit Data/Time/Date or Time/Date Transfer
- 2 Line x 16 Character Backlit Liquid Crystal with Automatic Contrast Adjustment
- Audible Beeper for Status Indication During Programming
- 120VAC or 12VDC Operating Power

N/4 BARE COPPER ROD TO GROUND UNIT.



BOLT SPACING

REINFORCING STEEL
PEDESTAL FOUNDATION DETAILS
TYPE I STANDARD

n.t.s.