

RECTANGULAR RAPID FLASHING BEACON PEDESTRIAN CROSSWALK SYSTEMS

Rectangular Rapid Flashing Beacon (RRFB) Pedestrian Crosswalk Systems provide drivers real-time warning when pedestrians are in or about to enter an approaching crosswalk. This popular, MUTCD-compliant option heightens driver awareness in a variety of applications.

- School zone crossings
- Multilane uncontrolled crossings
- High-speed pedestrian crossings











Rectangular Rapid Flash Beacon: RRFB-XL2

Extra-large beacons provide greater visibility, ideal for high-speed and multi-lane pedestrian & school crossings

- Driver yielding rates of 80-90%
- Large LEDs exceed FHWA standards
- Completely modular
- Various mounting options



Rectangular Rapid-Flash Beacon (RRFB) LED Crosswalk Warning System

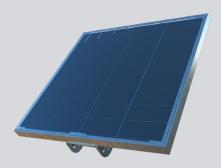




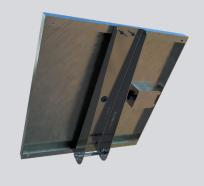
SOLAR PANEL 55W

SPECIFICATIONS

POWER	55W minimum
NOMINAL VOLTAGE	12V
OPEN CIRCUIT VOLTAGE	22.1V
SHORT CIRCUIT CURRENT	3.31A
MAXIMUM POWER VOLTAGE	18.18V
MAXIMUM POWER CURRENT	3.1A
GLASS	Tempered
FRAME	Anodized aluminum
JUNCTION BOX	IP65, UL94-5VA material
WEIGHT	14 pounds
MOUNTING HARDWARE	Various options available
OPERATING TEMPERATURE RANGE	-40°F to 194°F (-40°C to 90°C)
DIMENSIONS	25"W x 26"H x 1.5"D



FRONT

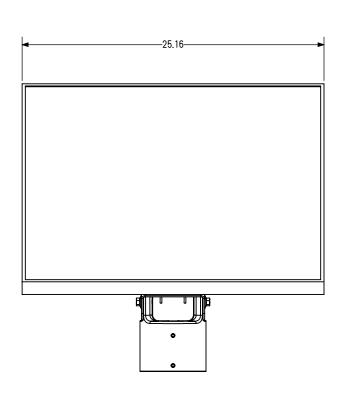


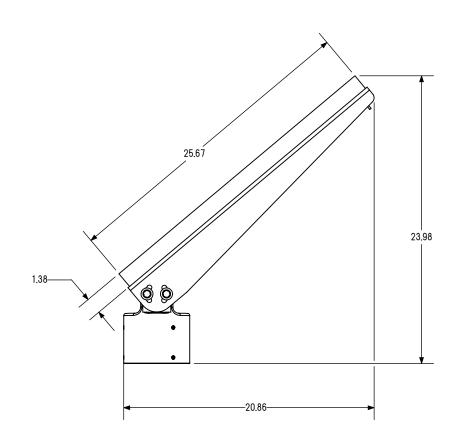
BACK

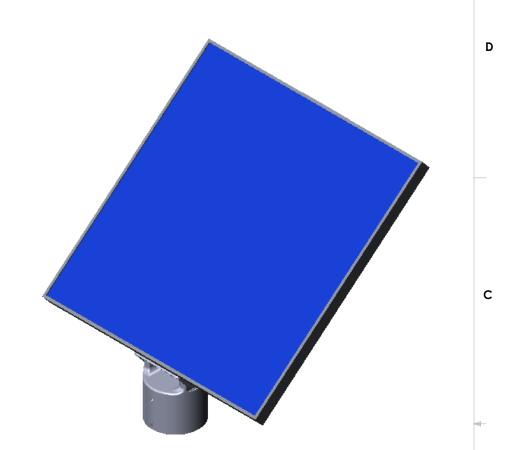
REVISIONS

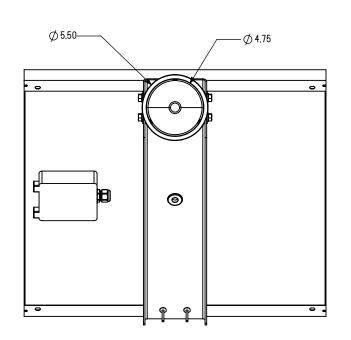
REV. DESCRIPTION DATE PCN # AUTHOR/APPROVED

A RELEASED FOR SALES SUBMITTAL 6/7/2016 N/A A.K./J.P.









TRAFFIC & PARKING CONTROL CO., INC.

INTERPRET GEOMETRIC

MATERIAL TOLERANCING PER:
ASME Y14.5-2009
REFERENCE:

TOLERANCE UNLESS
OTHERWISE SPECIFIED
HOLE Ø ±.003
DEC. MM INCH
X ±2.540 ±0.100
XX ±0.762 ±0.030

XXX <u>+</u> 0.381 <u>+</u> 0.015

XXXX ±0.0127 ±0.0005

55W/12V SOLAR PANEL PACKAGE TOP OF

POLE MOUNT 4.5 DIA.

DESIGNED BY:

DRAWN BY:

A. KAVANAUGH

6/7/2016

DRAWN BY:

A. KAVANAUGH

6/7/2016

2TE-743

REV WEIGHT:

SCALE: 1:8

STORAGE SIZE:

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CHECKED BY: J. PATTERSON 6/7/2016

NOTES:

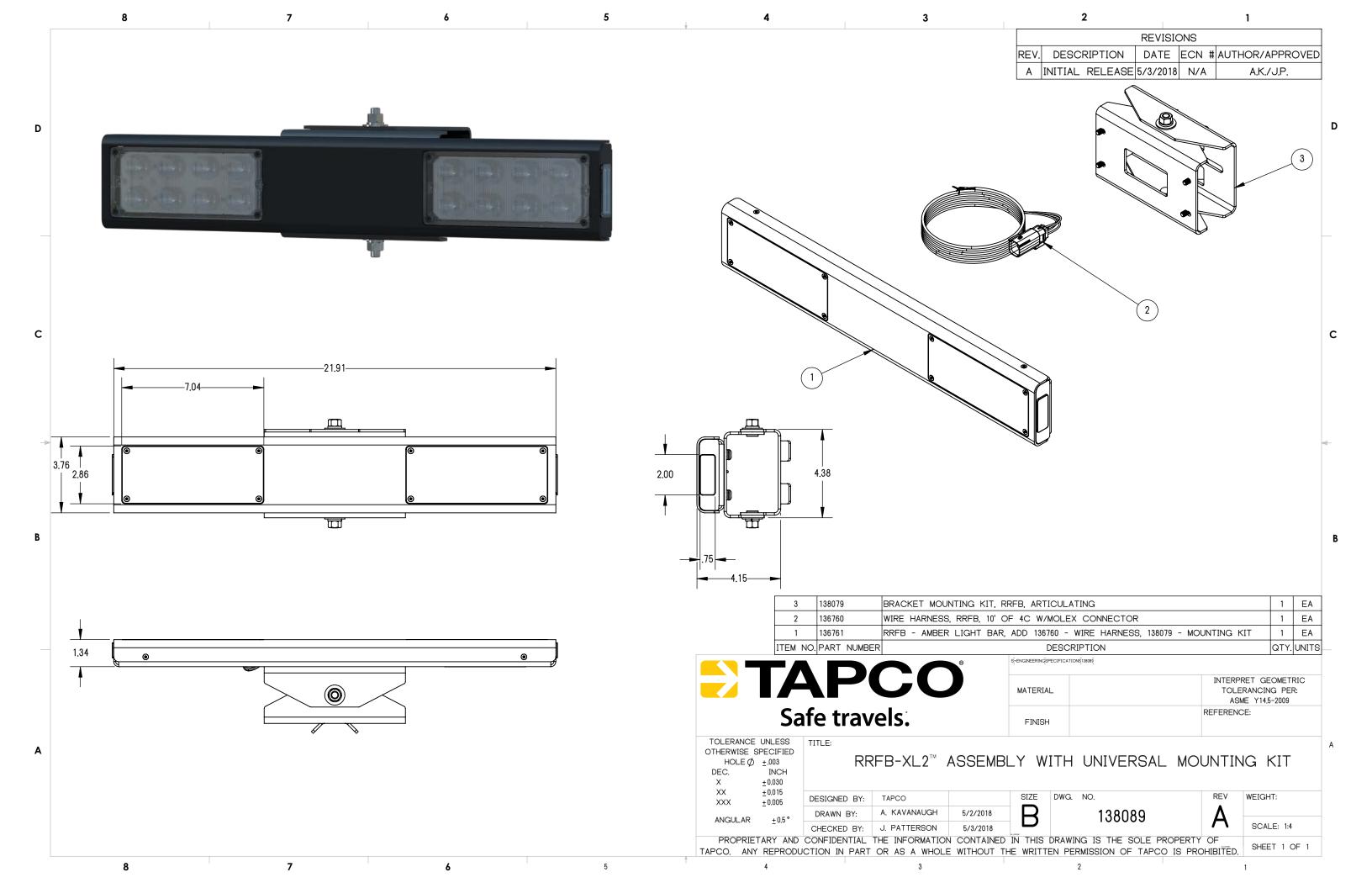
- 1. ORIENT SOLAR PANEL TOWARDS SOUTHERN SKY FOR MAXIMUM SOLAR EXPOSURE
- 2. SOLAR PANEL ANGLE CAN BE ADJUSTED TO MEET SPECIFIC LOCATION SOLAR REQUIREMENT

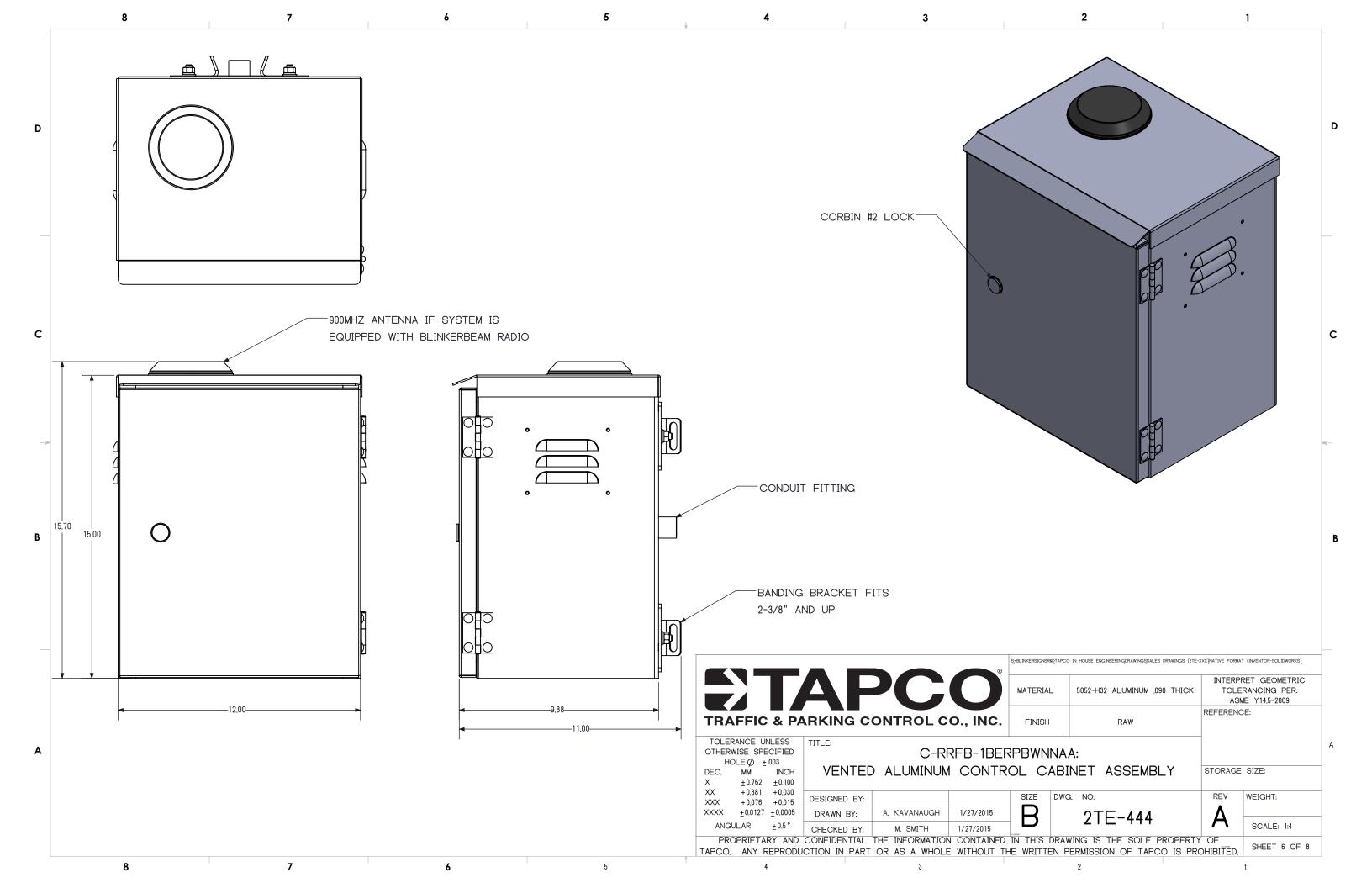
7

6

4

1



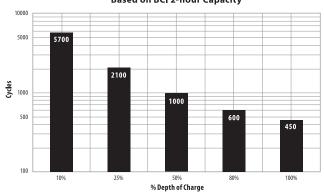


8G40-DEKA 48Ah Valve-Regulated Gelled-Electrolyte Battery

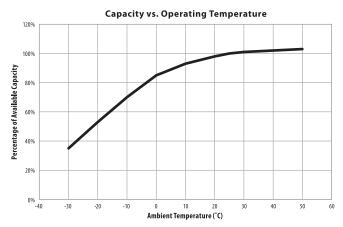


	Voltage	12 volts nominal	
Capacity at C/100		48 Ah	
	Capacity at C/100	40 Ah	
	Plate alloy	Lead calcium	
Container/cover		Grey Polypropylene	
Electrolyte		Sulfuric acid thizotropic gel	
Sh	ort circuit current	1331	
Posts		Forged terminals and bushings	
Operating temperature range		-76°F (-60°C) – 140°F (60°C)	
Vent		Self sealing	
Terminal		Insert with 1/4"-20 round hole	
	Weight	32 lb. (14.5 kg)	
Dimensions		7.76"L x 6.62"W x 6.87"H 197mmL x 168mmW x 174mmH	
	Ampere Hour Cap	pacity 77°F (25°C)	
10 HR = 37.0Ah	20 HR = 40.0 Ah	24 HR = 40.8 Ah 100 HR = 48.0 Ah	
	Peak Rating** [1.7	5 vpc @ 77°F (25°C)]	
5 HR = 36.0 AH	20 HR = 42.1 AH	100 HR = 48.7 AH	
	Non -Spillable	as defined by Department of Transportation, International Commercial Airline Organization and International Airline Transport Association definitions	

Gel Cycle Life vs Depth of Discharge at +25°C (77°F)* Based on BCI 2-hour Capacity



*Dependent upon proper charging and ambient temperatures.



Capacity vs. Operating Temperatures: Above are the changes in capacity for wider ambient temperature range, giving the available capacity, as a percentage of the rated capacity, at diffrent ambiet rtemt temperatures. he curves ashow the behavior of the battery after a number of cycles.

Photovoltaic Charging Parameters				
Bulk charge	Max current (amps)	30% of 20 Hr rate		
Absorption (regulation) charge	Constant Voltage	2.35-2.43 vpc		
Float charge	Constant Voltage	2.25 vpc ± 0.01		
Equalize charge	Constant Voltage	2.40-2.43 vpc		
Temperature coefficient 0.003 v/°C		3 v/°C		

Cut-off parameters per charge & equalize intervals are application specific and will vary dependent upon site specific characteristics such as temperature, days of autonomy, array to load ratio, etc.

Distributed by











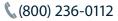
BLINKERBEAM® WIRELESS RADIO

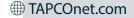
SPECIFICATIONS

POWER INPUT	5VDC
INPUT	1 digital input, micro USB
OUTPUTS	2 digital output lines, host serial lines for OTA serial
PROGRAMMABILITY	Locally using USB port or front-mounted joystick
LCD DISPLAY	4 lines at 21 characters per line
OPERATION POWER MODES	3 levels available, 0.25, 0.5 or 1 watt
CONNECTIVITY	Activates warning LEDs concurrently
FREQUENCY	License free 900 MHz Frequency Hopping Spread Spectrum with 10 different RF patterns to prevent interference between collocated radio systems
RANGE	900 feet or longer with optional antenna
SERIAL DATA RATE	19,200Baud
STATUS LEDS	Red, green, yellow, amber
FCC ID	2ANWN-02ANWN
AVAILABLE ANTENNAS	6dBi Omni - Fiberglass 3dBi Omni Whip - RPSMA 3dBI Omni Low Profile 10.64dBi Yagi
OPERATING TEMPERATURE	-40°F to 176°F (-40°C to 80°C); less than 90% RH
DIMENSIONS	3.2"W x 3.7"H x 2.5"D











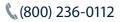
XAV2-LED PUSH BUTTON

SPECIFICATIONS

POWER INPUT	10 to 24VDC (from control circuit)	
PUSH BUTTON	ADA compliant with field adjustable directional arrow. Optional locate tone available.	
ACTIVATION CONFIRMATION	Yellow LEDs and voice confirmation activated when push button is pressed.	
SPEAKER	Weather resistant; 10 watt audio amplifier Maximum volume: 100 dB at 1 meter	
INSTRUCTIONAL SIGN	9" x 12"; retroreflective sheeting with tamper-resistant mounting screws. Larger signs available upon request.	
OPERATING FORCE	3 pounds maximum	
IDLE CURRENT DRAW	~1.2mA	
PEAK CURRENT DRAW	~500mA with voice message at maximum	
LED CURRENT	22mA typical	
ENCLOSURE	Cast aluminum housing with yellow powder coat finish, watertight 0-ring seals. Black powder coat finish available.	
INSTALLATION	2 holes on 6.0" centers, tapped ¼-20 plus ½" or larger hole for wire access	
PUSH BUTTON OUTPUT	Driven low to ground when the push button is pressed	
MICROPHONE INPUT	0 to 1.5V feedback based upon ambient noise	
OPERATING TEMPERATURE RANGE	-30°F to 140°F (-34°C to 60°C)	
DIMENSIONS	5.50"W x 14.10"L x 2.60"H	











Ocean State Signal Co.

27 Thurber Blvd • Smithfield, RI 02917 (401) 231-6780 Fax: (401) 231-4390



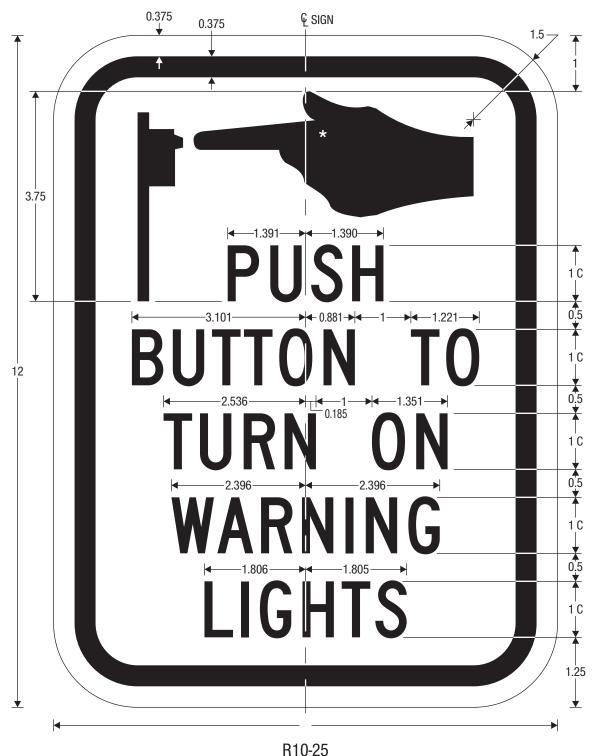
ASSEMBLY SHEET

TITLE: "PUSH BUTTON TO TURN ON WARNING LIGHT"
MODEL X SIGN - MUTCD R10-25 (9" x 12")

PART NO.:

800-101

101 R10-25



PUSH BUTTON TO TURN ON WARNING LIGHTS

BACKGROUND — WHITE (RETROREFLECTIVE)

For more information, visit our website at www.oceanstatesignal.com



Ocean State Signal Co.

27 Thurber Blvd • Smithfield, RI 02917 (401) 231-6780 Fax: (401) 231-4390

SPECIFICATION SHEET

TITLE:

MUTCD STATIC TRAFFIC SIGN

PART NO.:

SEE BELOW



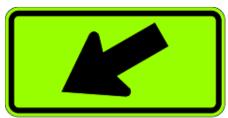
W11-1, .080 DG3 FYG, Bike Crossing (Symbol) Fed Spec Fluorescent Yellow-Green Sign



W11-2, .080 DG3 FYG, Pedestrian Crossing (Symbol) Fed Spec Fluorescent Yellow-Green Sign



W11-15, .080 DG3 FYG, Mixed Use Crossing (Symbol) Fed Spec Fluorescent Yellow-Green Sign



W16-7nL



S1-1, .080 DG3 FYG, School Crossing (Symbol) Fed Spec Fluorescent Yellow-Green Sign



W16-7PL, 24"x12" DG3 FYG, Down Diagonal Arrow Fed Spec Fluorescent Yellow-Green Sign



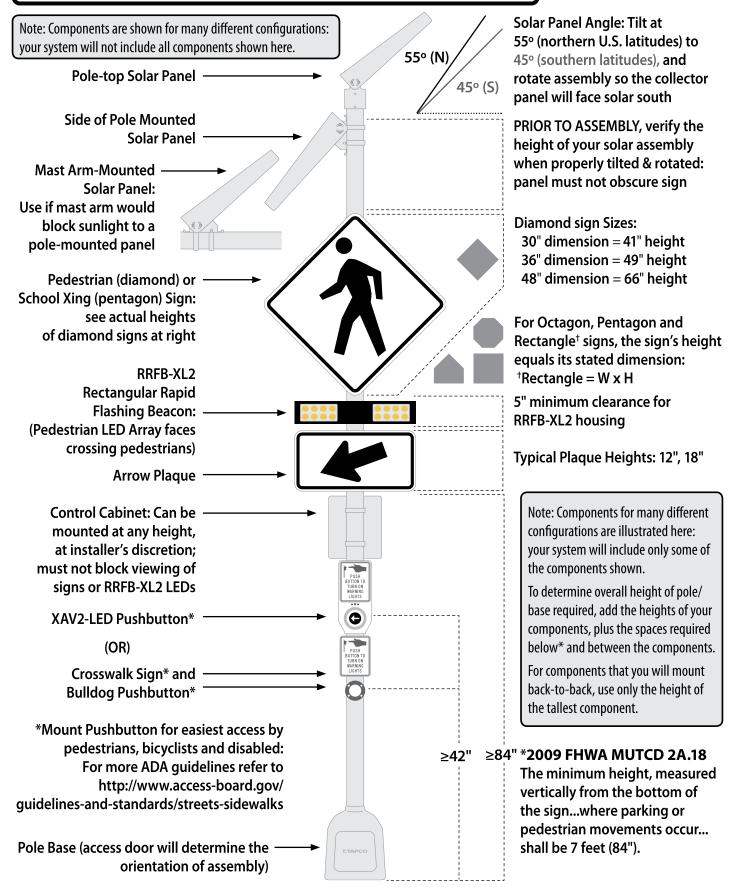
W11-15P, 24"x12" DG3 FYG, Trail Crossing Fed Spec Fluorescent Yellow-Green Sign

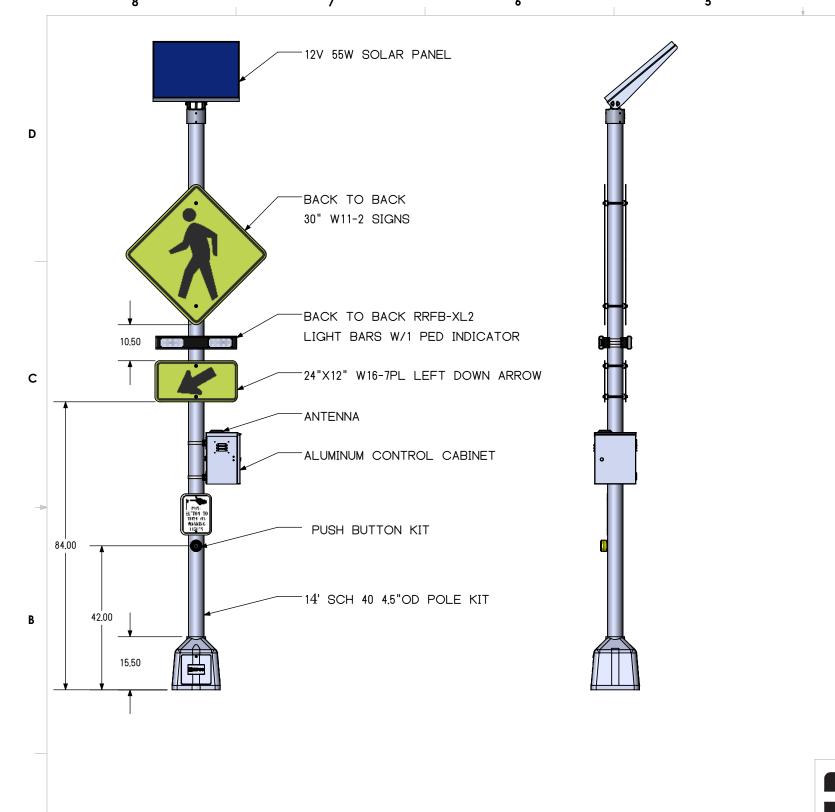


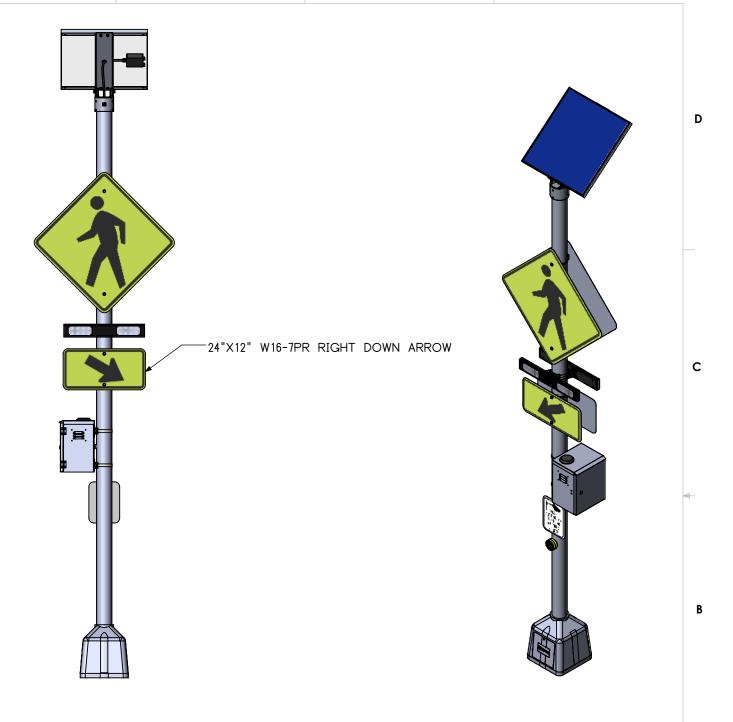
W16-9P, 24"x12" DG3 FYG, Ahead Fed Spec Fluorescent Yellow-Green Sign

For more information, visit our website at www.oceanstatesignal.com

TYPICAL RRFB-XL2™ CONFIGURATIONS







TRAFFIC & PARKING CONTROL CO., INC.

INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5-2009 REFERENCE: VARIED

TOLERANCE UNLESS TITLE: OTHERWISE SPECIFIED HOLE \emptyset $\pm .003$ MM <u>+</u> 2.540 <u>+</u> 0.100 ± 0.762 ± 0.030 ± 0.381 ± 0.015 XXXX <u>±</u>0.0127 <u>±</u>0.0005

DOUBLE SIDED RRFB-XL2 SLR-55W SOLAR

POLE ARRANGEMENT SIZE DWG. NO.

2TE-550

WEIGHT: SCALE: 1:28

BRYAN E.

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A. KAVANAUGH 6/9/2015

4. J-BOLTS NOT SHOWN

2. CONTROL CABINET HEIGHT MAY VARY.

1. ORIENT SOLAR PANEL TOWARDS SOUTHERN SKY FOR MAXIMUM SOLAR EXPOSURE

3. SNAP LOCKS ARE PROVIDED, STANDARD 3/4" S/S BANDING IS RECOMMENDED

DESIGNED BY:

STORAGE SIZE:

Custom Voice Message Details

(Fill out one form per intersection)

Voice on Location and Walk Message(s) & Braille. Please give phonetic pronunciation on difficult street names so that we record them properly. Please note that unless Street, Drive, Avenue, etc... are necessary for intersection identification, it is recommended to leave them off.

Qty

VOL: Wait to Cross

at

Wait

(Street Being Crossed)

(Intersecting Street)

Walk Message:

Walk sign is on to cross

(Street Being Crossed)

(Street Being Crossed)

Arrow Direction (R/L)

Street Name in BRAILLE

Qty

VOL: Wait to Cross

at

Wait

(Street Being Crossed)

(Intersecting Street)

Walk Message:

Walk sign is on to cross

(Street Being Crossed)

(Street Being Crossed)

Arrow Direction (R/L)

Street Name in BRAILLE

Qty

VOL: Wait to Cross

at

Wait

(Street Being Crossed)

(Intersecting Street)

Walk Message:

Walk sign is on to cross

(Street Being Crossed)

(Street Being Crossed)

Arrow Direction (R/L)

Street Name in BRAILLE

Qty

VOL: Wait to Cross

at

Wait

(Street Being Crossed)

(Intersecting Street)

Walk Message:

Walk sign is on to cross

(Street Being Crossed)

(Street Being Crossed)

Arrow Direction (R/L)

Street Name in BRAILLE

Qty

VOL: Wait to Cross

at

Wait

(Street Being Crossed)

(Intersecting Street)

Walk Message:

Walk sign is on to cross

(Street Being Crossed)

(Street Being Crossed)

Arrow Direction (R/L)

Street Name in BRAILLE

Qty **VOL: Wait to Cross** Wait at (Street Being Crossed) (Intersecting Street) Walk sign is on to cross Walk Message: (Street Being Crossed) (Street Being Crossed) Arrow Direction (R/L) Street Name in BRAILLE **Qty VOL: Wait to Cross** Wait at (Street Being Crossed) (Intersecting Street) Walk sign is on to cross Walk Message: (Street Being Crossed) (Street Being Crossed) Arrow Direction (R/L) Street Name in BRAILLE **Qty VOL: Wait to Cross** Wait at (Street Being Crossed) (Intersecting Street) Walk sign is on to cross Walk Message: (Street Being Crossed) (Street Being Crossed) Arrow Direction (R/L) Street Name in BRAILLE **Qty VOL: Wait to Cross** at Wait (Street Being Crossed) (Intersecting Street) Walk sign is on to cross Walk Message: (Street Being Crossed) (Street Being Crossed) Arrow Direction (R/L) Street Name in BRAILLE **Qty VOL: Wait to Cross** at Wait (Street Being Crossed) (Intersecting Street) Walk sign is on to cross Walk Message: (Street Being Crossed) (Street Being Crossed) Street Name in BRAILLE Arrow Direction (R/L)