



Form GSOP 1-PIN (04/98)

STATE OF CALIFORNIA
Department of General Services - Office of Procurement
PURCHASE ORDER

Purchase Order No. Rev. Date
62378 6/30/2009

Table with 5 columns: Supplier No., Solicitation No., Delivery Date, FOB Point, Invoice Terms. Values: 767230, 57370, 60 Days ARO, Destination, 6/30/2009

Main body form containing contact information for STAY SAFE STORE and DEPT. OF TRANSPORTATION, including agency billing, purchase estimate, and contact details.

Main item table with columns: Item No., Quantity, Unit, Commodity Code, Description, Unit Price, Extension. Includes item 18810 EA 9705-001-0009-7 CONE TRAFFIC 28" and a total value of 259,389.90.

Sales and/or use tax to be extra unless noted above

Buyer information box with fields for Buyer (Kathleen Sanborn), Phone (916-375-4403), and BOC Number.

Handwritten signature of Jon Olney

GENERAL PROVISIONS

The General Provisions for Non-IT Commodities are hereby incorporated by reference. These General Provisions can be obtained by phoning (916) 375-4400 or by accessing our website at:

www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf

MB-SB-SB/NVSA-DVBE-NS

The following information is provided for agency use only:

PRIME CONTRACTOR: SB

SCOPE

This purchase order is a One Time Acquisition conducted by the Department of General Services, Procurement Division on behalf of the Department of Transportation for 28" traffic cones.

The State reserves the right to purchase up to an additional 25% of the quantity on the Purchase Order, at bid prices, within 90 days of the purchase order date.

PALLET SIZE REQUIREMENT

Cones shall be placed on pallet size 42" x 42", size 2, type 2 pallets in accordance with the State of California specification #3990-01A-01, dated January 2001.

DELIVERY

Delivery is to be completed in full within sixty (60) days after receipt of order (ARO).

For the purposes of this purchase order, only bids quoted Free On Board (F.O.B.) Destination will be accepted.

Note: In accordance with paragraph 15 of the General Provisions entitled "Delivery", the contractor shall strictly adhere to the delivery terms and completion schedule as specified in this solicitation. Failure to comply with the delivery requirements, as stated, may be considered a breach of contract and subject the contractor to General Provisions 26, entitled "Rights and Remedies of the State for Default".

ATTACHMENTS

The following documents are attached and part of this purchase order:

1. Specification #9705-0705 for 28" traffic cones of six (6) pages, dated April 15, 2009
2. Pre-qualified and Tested Signing and Delineation Materials of nine (9) pages
3. State of California Wooden Pallet Specification of three (3) pages, dated January 2001
4. CalTrans Delivery Form of one (1) page

PRECEDING FISCAL YEAR PURCHASE ORDER

This purchase order is being awarded on July 6, 2009 pursuant to Government Code Section 13332.17. Any encumbrances made pursuant to this purchase order shall be construed to have been made on the last day of the preceding fiscal year.

CHANGE ORDERS

This Purchase Order may be amended, modified, or terminated at any time by mutual agreement of the parties in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include termination for default of the supplier.



**STATE OF CALIFORNIA
 BID SPECIFICATION
 TRAFFIC CONES, 28 INCHES
 DEPARTMENT OF TRANSPORTATION**

9705-0705

1. SCOPE

1.1 This specification covers 712 mm plastic traffic cones designed to provide fluorescent red-orange delineation and cones with an approved two-band (150 and 100mm) reflective sleeve for day and nighttime delineation.

2. APPLICABLE SPECIFICATIONS / STANDARDS

2.2 Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid, form a part of this specification.

2.3 All cones supplied shall meet the NCHRP (National Cooperative Highway Research Project) Report 350 Criteria for Category 1 devices. Supplier shall provide self-certification upon request to the Transportation Laboratory.

3. REQUIREMENTS

Material

3.1 Cone Only: The conical section of the traffic cones shall be composed of a polyvinyl chloride compound. The minimum thickness of this layer shall be the maximum required thickness of the conical section. The bottom layer of the base shall be composed of a high-density weighted polyvinyl chloride or molded rubber. This layer shall be securely and permanently bonded to the bottom end of the conical section. The conical section may be either standard as shown in the Figure 2 "Fluorescent Plastic Traffic Cones" or recessed for protection of the reflective sleeves.

3.2 Cone with Reflective Sleeve: The cone shall be made with the same material as described in Paragraph II.A.1, except it shall have a two-band (6 and 4 inch) reflective sleeve permanently bonded to it. The reflective sleeve shall meet the photometric requirements below and shall be bonded to the cone with a water-based or pressure sensitive adhesive. After bonding onto the cone, the sleeve shall be free of wrinkles.

Sleeve material shall meet specification requirements in ASTM Designation: D 4956, for Type III or Type VI sheeting.

Workmanship

3.3 Traffic cones shall exhibit good workmanship and shall be free of burns, discoloration, streaks, runs, air bubbles and other objectionable marks or defects which effect appearance and serviceability. The inner and outer surfaces of the conical portion, above the base, shall be smooth; bumps, ridges or voids at any location shall be cause for rejection.

Color

3.4 The outer layer of the conical section shall be a bright fluorescent red-orange when tested according to ASTM Designation: E-991 and plotted on the CIE chromaticity chart with chromaticity coordinates as given in Table I.

X	Y
0.480	0.360
0.529	0.310
0.610	0.390
0.690	0.310
TABLE I	

Stacking

3.5 Cones when stacked shall nest neatly, separate easily and shall be compatible with the referenced brand cones and be manufactured to the dimensions specified on Figure 2 "Fluorescent Plastic Traffic Cones"

Base

- 3.6 Cone base shall have cleats with minimum dimensions as shown on Figure 2 "Fluorescent Plastic Traffic Cones with Sleeves".

Identification and Ink Adhesion Test

- 3.7 "CALTRANS" shall be imprinted vertically on the conical section in 13-16 mm letters. The top of the uppermost letter shall be positioned a minimum of 430mm from the top of the cone. The method of application shall produce neat, easily read, permanent lettering that cannot be removed without damaging the cone.

Apply a 3M Company Scotch Brand, number 600, cellophane tape over several of the inked letters. Use the eraser end of a pencil and rub gently to ensure that the tape is bonded securely to the cone. Pull tape back upon itself (180 degrees) and in a smooth even movement remove the tape. The lettering shall remain visible and readable upon the cone.

Quality Control

- 3.8 Bidder shall submit with their bid or within five (5) days upon request by the state a quality control program in writing which should address the following as a minimum:
- 3.8.1 Policy/procedure on monitoring quality of incoming materials.
 - 3.8.2 Type and frequency of tests performed. Maintenance and availability of test records.
 - 3.8.3 Name and title of person responsible for quality control function.

Inspection

- 3.9 Traffic cones shall be sampled and tested by the Department of Transportation (DOT), Engineering Services, Materials Engineering and Testing Services. Sampling will be prior to shipment or at the point of delivery, at the option of the State.

An official sample of traffic cones shall consist of four randomly selected cones representing lot quantities $\leq 4,000$ units. For lots $> 4,000$ units, one additional cone shall be sampled for each additional 1,000 cones or fraction thereof.

Material not meeting specifications will be rejected. Time required for testing shall be ≤ 30 days.

By request, the State shall have free entry at all times to such parts of the manufacturer's plant related to production or quality control of traffic cones. All quality control test results shall be made available to the DOT inspector.

Tolerance

- 3.10 100% of the original official sampling of each lot of cones shall comply with all requirements.

4. DIMENSIONS AND PHYSICAL PROPERTIES

- 4.1 Cones shall be manufactured to the dimensions specified on Figure 2 "Fluorescent Plastic Traffic Cones with Sleeves" and the dimensions given in Table II.
- 4.2 Tensile strength of the joint where the conical portion of the cone joins the base shall be ≥ 1.2 Kg per mm of width. See Test Note E.

Total Height:	712 ± 12 mm
Total Mass:	≥4.54 Kg
Mass of Base:	≥2.95 Kg
Wall Thickness (Test Note #B):	≥2.54 mm (Top & Middle) ≥2.84 mm (Bottom)
Tensile Strength (Test Note #C):	≥8.3MPa
Elongation (Test Note #C):	≥200%
Tensile Stress @200% elongation (Test Note C):	≥6.9 MPa
Hardness, Shore A2, Conical Section (Test Note D):	80±10
TABLE II	

Fold Test

- 4.3 Place cone in normal position on a flat and level surface and fold at a point near the middle of its vertical height. Hold the upper tip of the cone for ten seconds in a position immediately adjacent to the base and touching the surface upon which the base is resting. When released, the cone shall return to its original vertical position in ≤15 seconds.

Heat Resistance

- 4.4 Suspend a 1.36 KG weight inside the conical section of the traffic cone utilizing a wire attached to the center of a flat metal disc spanning and resting upon top of the cone. Place weighted cone in an upright position in a preheated air circulating 82° C oven. After 1 hour, cone shall not exhibit significant slump or sag.

Cold Resistance

- 4.5 Cones, shall be conditioned a minimum of 2 hours at -17°C in an environmentally controlled test chamber. A steel ball weighing 0.91 Kg shall be dropped a distance of 1.5m through a virtually frictionless vertical guide to impact the surface of the cone. The surface of the cone being struck by the steel ball shall be in a horizontal position supported by one edge of the cone's base and held in position by a support at the narrow or top end of the cone. The cones shall be subjected to three impact tests spaced ≥150 mm apart. Fracturing, cracking or splitting of conical section and/or base shall constitute failure.

Color Fastness

- 4.6 The exterior side of a coupon cut from the cone shall be exposed for 500 hours in accordance with ASTM Designation: G 155, Table X3.1, Cycle 1 in a Xenon Arc Light Apparatus. Test specimen shall meet the color requirements of Section II.C of this specification.

Base bend test

- 4.7 Remove the base of the cone by cutting the conical section at its junction with the top surface of the base. Bend the base 180° around a rigidly mounted round mandrel with the upper surface of the base adjacent to the mandrel and clamp base securely in that position. The diameter of the mandrel shall be 50mm. Two minutes after clamping base into 180° bend position, examine base for failure represented by splitting or tearing. If no failure has occurred, a knife cut 0.76 mm deep shall be made on the outside radius of the bend and parallel with the longitudinal axis of the mandrel. Wait two

minutes after making knife cut and examine. Failure is represented by tearing of the base material more than 2.5 mm beyond dept of cut.

5. TEST NOTES

- A. Unless otherwise indicated, all tests shall be performed on samples conditioned a minimum of 40 hours at $\pm 2^{\circ}\text{C}$ and $50 \pm 5\%$ relative humidity.
- B. Wall thickness shall be measured on the conical section 25 to 75 mm from the base, 25 to 75 mm from the top, and at the middle.
- C. Tensile strength, elongation and tensile stress shall be determined on the conical section of the cone only, in accordance with ASTM Designation; D 638. The test specimens shall be Type IV. The rate of jaw separation shall be 500 mm per minute.
- D. Hardness shall be determined in accordance with the ASTM Designation: D 2240. The durometer shall be Type A2, with a total weight of 2 Kg centered on the axis of the indenter. The scale shall be read 15 seconds after the pressure foot is in firm contact with test specimen.
- E. Three reduced section test specimens shall be cut from each cone to be tested. The reduced section shall be a neatly trimmed 50 mm width at the joint between cone and base. Length of test specimen will vary depending on size of cone being tested but in all cases the length must be sufficient to permit clamping ends of specimen in standard textile jaws or other suitable grips of a tensile test machine. Test machine shall be capable of maintaining the specified jaw separation rate of 150 mm per minute. Divide the total load required to separate the specimen by the area of the PVC section at the joint. Report the average of the three tests.

6. PACKAGING FOR 700 MM CONES

- 6.1 712 mm cones are not be packaged in cartons. Ninety (90) cones shall be placed on 44"X44" or 45"X45" wooden pallets of good condition and secured as shown in Figure 1. The reinforced plastic strapping used shall be ≥ 20 mm wide.

After cones have been stacked on pallet, base portion of cones must be plastic wrapped to minimize shifting while in transit and have a black plastic pallet cover placed over cones to protect them from fading due to sun exposure while being stored outside. To prevent damage to the cones, pallets shall not be stacked.

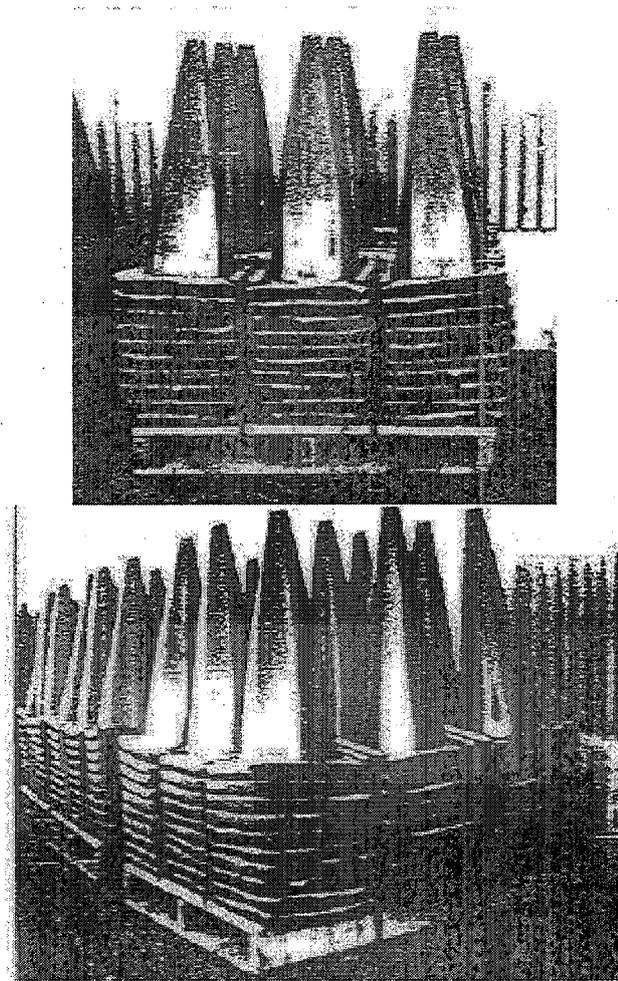
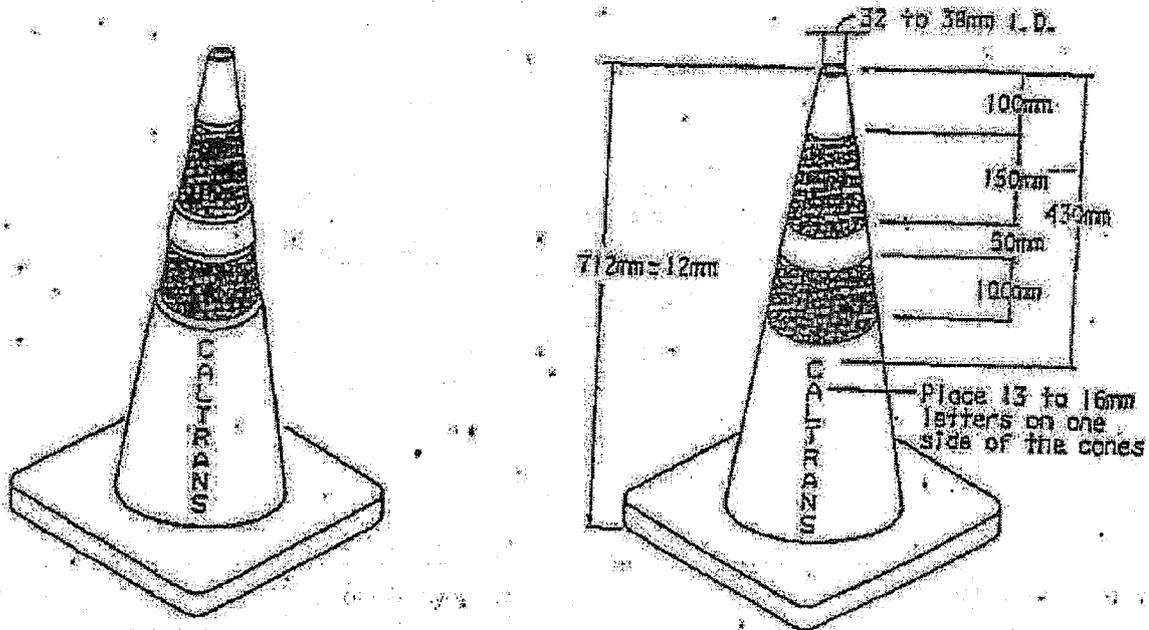


FIGURE 1: PACKAGING FOR PLASTIC TRAFFIC CONES

7. PRE-QUALIFICATION PROCEDURE

7.1 New products may be added for future solicitations to the Acceptable Brands List. If interested, please have your manufacturer submit a Product Information Form to the New Product Coordinator at the Transportation Laboratory. For questions regarding this procedure contact: Devinder Singh, Traffic Operations, (916) 654-4715 or Andy Rogerson, Transportation Laboratory, (916) 227-7289.

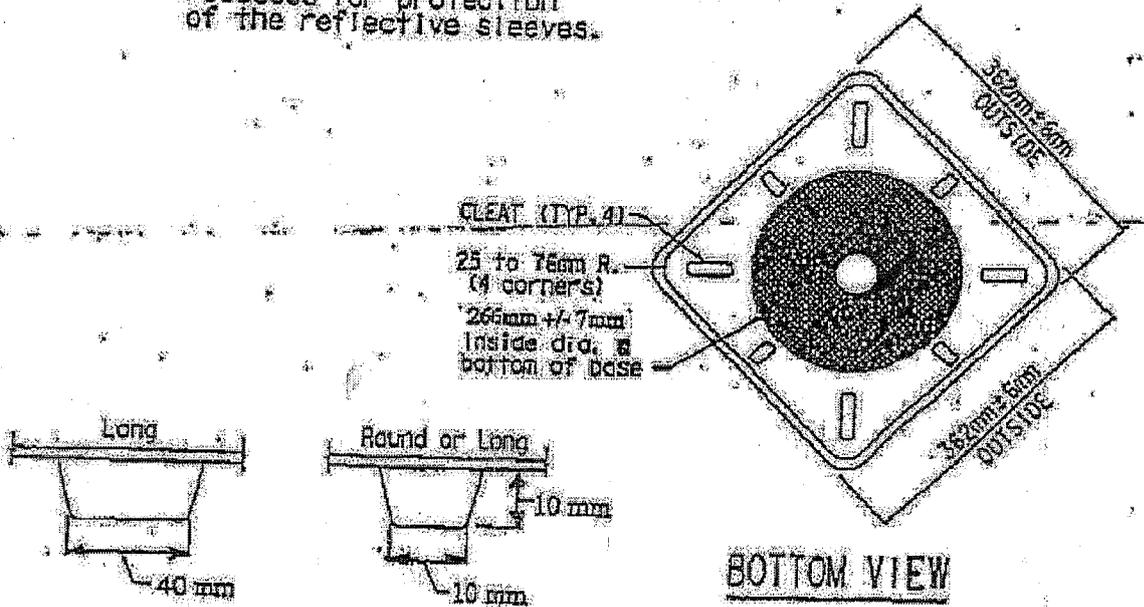
Cones and sleeves shall be tested and approved separately by the Department of Transportation. A list of approved sheeting and cones can be obtained from the Translab, 5900 Folsom Boulevard, Sacramento CA, 95819. Once approved, vendor shall be responsible for permanently bonding sleeves to the cones.



RECESSED

STANDARD

The conical section may be either standard or recessed for protection of the reflective sleeves.



BOTTOM VIEW

CLEAT DETAILS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE OF BUSINESS MANAGEMENT
 MATERIAL OPERATIONS

FIGURE 2: FLUORESCENT PLASTIC TRAFFIC CONES WITH SLEEVES

PREQUALIFIED AND TESTED SIGNING AND DELINEATION MATERIALS

The Department maintains the following list of Prequalified and Tested Signing and Delineation Materials. The Engineer shall not be precluded from sampling and testing products on the list of Prequalified and Tested Signing and Delineation Materials.

The manufacturer of products on the list of Prequalified and Tested Signing and Delineation Materials shall furnish the Engineer a Certificate of Compliance in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications for each type of traffic product supplied.

For those categories of materials included on the list of Prequalified and Tested Signing and Delineation Materials, only those products shown within the listing may be used in the work. Other categories of products, not included on the list of Prequalified and Tested Signing and Delineation Materials, may be used in the work provided they conform to the requirements of the Standard Specifications.

Materials and products may be added to the list of Prequalified and Tested Signing and Delineation Materials if the manufacturer submits a New Product Information Form to the New Product Coordinator at the Transportation Laboratory. Upon a Departmental request for samples, sufficient samples shall be submitted to permit performance of required tests. Approval of materials or products will depend upon compliance with the specifications and tests the Department may elect to perform.

PAVEMENT MARKERS, PERMANENT TYPE

RETROREFLECTIVE WITH ABRASION RESISTANT SURFACE (ARS)

- A. Apex, Model 921AR (4 inch x 4 inch)
- B. Ennis Paint, Models C88 (4 inch x 4 inch), 911 (4 inch x 4 inch) and 953 (2.75 inch x 4.5 inch)
- C. Ray-O-Lite, Model "AA" ARS (4 inch x 4 inch)
- D. 3M Series 290 (3.5 inch x 4 inch)
- E. 3M Series 290 PSA, with pressure sensitive adhesive pad (3.5 inch x 4 inch)

RETROREFLECTIVE WITH ABRASION RESISTANT SURFACE (ARS)

(for recessed applications only)

- A. Ennis Paint, Model 948 (2.3 inch x 4.7 inch)
- B. Ennis Paint, Model 944SB (2 inch x 4 inch)*
- C. Ray-O-Lite, Model 2002 (2 inch x 4.6 inch)
- D. Ray-O-Lite, Model 2004 ARS (2 inch x 4 inch)*

*For use only in 4.5 inch wide (older) recessed slots

NON-REFLECTIVE, 4 INCH ROUND

- A. Apex Universal (Ceramic)
- B. Apex Universal, Models 929 (ABS) and 929PP (Polypropylene)
- C. Glowlite, Inc., (Ceramic)
- D. Hi-Way Safety, Inc., Models P20-2000W and 2001Y (ABS)
- E. Interstate Sales, "Diamond Back" (Polypropylene)
- F. Novabrite Models Cdot (White) Cdot-y (Yellow), Ceramic
- G. Novabrite Models Pdot-w (White) Pdot-y (Yellow), Polypropylene
- H. Three D Traffic Works TD10000 (ABS), TD10500 (Polypropylene)

PAVEMENT MARKERS, TEMPORARY TYPE

TEMPORARY MARKERS FOR LONG TERM DAY/NIGHT USE (6 MONTHS OR LESS)

- A. Vega Molded Products "Temporary Road Marker" (3 inch x 4 inch)

TEMPORARY MARKERS FOR SHORT TERM DAY/NIGHT USE (14 DAYS OR LESS)

(For seal coat or chip seal applications, clear protective covers are required)

- A. Apex Universal, Model 932
- B. Filtrona Extrusion, Models T.O.M., T.R.P.M., and "HH" (High Heat)
- C. Hi-Way Safety, Inc., Model 1280/1281
- D. Glowlite, Inc., Model 932

STRIPING AND PAVEMENT MARKING MATERIAL

PERMANENT TRAFFIC STRIPING AND PAVEMENT MARKING TAPE

- A. Advanced Traffic Marking, Series 300 and 400
- B. Brite-Line, Series 1000
- C. Brite-Line, "DeltaLine XRP"
- D. Swarco Industries, "Director 35" (For transverse application only)
- E. Swarco Industries, "Director 60"
- F. 3M, "Stamark" Series 380 and 5730
- G. 3M, "Stamark" Series 420 (For transverse application only)

TEMPORARY (REMOVABLE) STRIPING AND PAVEMENT MARKING TAPE (6 MONTHS OR LESS)

- A. Advanced Traffic Marking, Series 200
- B. Brite-Line, Series 100
- C. Garlock Rubber Technologies, Series 2000
- D. P.B. Laminations, Aztec, Grade 102
- E. Swarco Industries, "Director-2"
- F. Trelleborg Industries, R140 Series

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- G. 3M, Series 620 "CR", and Series A750
- H. 3M, Series A145, Removable Black Line Mask (Black Tape: for use only on Asphalt Concrete Surfaces)
- I. Advanced Traffic Marking Black "Hide-A-Line" (Black Tape: for use only on Asphalt Concrete Surfaces)
- J. Brite-Line "BTR" Black Removable Tape (Black Tape: for use only on Asphalt Concrete Surfaces)
- K. Trelleborg Industries, RB-140 (Black Tape: for use only on Asphalt Concrete Surfaces)

PREFORMED THERMOPLASTIC (HEATED IN PLACE)

- A. Flint Trading Inc., "Hot Tape"
- B. Flint Trading, "Premark Plus"
- C. Ennis Paint Inc., "Flametape"

CERAMIC SURFACING LAMINATE, 6 INCH X 6 INCH

- A. Highway Ceramics, Inc.

CLASS 1 DELINEATORS

ONE PIECE DRIVEABLE FLEXIBLE TYPE, 66 INCH

- A. Filtrona Extrusion, "Flexi-Guide Models 400 and 566"
- B. Carsonite, Curve-Flex CFRM-400
- C. Carsonite, Roadmarker CRM-375
- D. FlexStake, Model 654 TM
- E. GreenLine Model CGD1-66

SPECIAL USE TYPE, 66 INCH

- A. Filtrona Extrusion, Model FG 560 (with 18 inch U-Channel base)
- B. Carsonite, "Survivor" (with 18 inch U-Channel base)
- C. Carsonite, Roadmarker CRM-375 (with 18 inch U-Channel base)
- D. FlexStake, Model 604
- E. GreenLine Model CGD (with 18 inch U-Channel base)
- F. Impact Recovery Model D36, with #105 Driveable Base
- G. Safe-Hit with 8 inch pavement anchor (SH248-GP1)
- H. Safe-Hit with 15 inch soil anchor (SH248-GP2) and with 18 inch soil anchor (SH248-GP3)

SURFACE MOUNT TYPE, 48 INCH

- A. Bent Manufacturing Company, Masterflex Model MF-180EX-48
- B. Carsonite, "Channelizer"

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- C. FlexStake, Models 704, 754 TM and EB4
- D. Impact Recovery Model D48, with #101 Fixed (Surface-Mount) Base
- E. Three D Traffic Works "Channelflex" ID No. 522248W

CHANNELIZERS

SURFACE MOUNT TYPE, 36 INCH

- A. Bent Manufacturing Company, Masterflex Models MF-360-36 (Round) & MF-180-36 (Flat)
- B. Filtrona Extrusion, Flexi-Guide Models FG300PE, FG300UR and FG300 EFX
- C. Carsonite, "Super Duck" (Round SDR-336)
- D. Carsonite, Model SDCF03601MB "Channelizer"
- E. FlexStake, Models 703, 753 TM and EB3
- F. GreenLine, Model SMD-36
- G. Hi-Way Safety, Inc. "Channel Guide Channelizer" Model CGC36
- H. Impact Recovery Model D36, with #101 Fixed (Surface-Mount) Base
- I. Safe-Hit, Guide Post, Model SH236SMA
- J. Three D Traffic Works "Boomerang" ID No. 522053W

LANE SEPARATION SYSTEM

- A. Filtrona Extrusion "Flexi-Guide (FG) 300 Curb System"
- B. Qwick Kurb, "Klemmfix Guide System"
- C. Recycled Technology, Inc. "Safe-Lane System"
- D. Dura-Curb System

CONICAL DELINEATORS, 42 inch

(For 28 inch Traffic Cones, see Standard Specifications)

- A. Bent Manufacturing Company "T-Top"
- B. Plastic Safety Systems "Navigator-42"
- C. Traffix Devices "Grabber"
- D. Three D Traffic Works "Ringtop" TD7000, ID No. 742143
- E. Three D Traffic Works, TD 7500

OBJECT MARKERS

TYPE "K", 18 INCH

- A. Filtrona Extrusion, Model FG318PE
- B. Carsonite, Model SMD 615

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- C. FlexStake, Model 701 KM
- D. Safe-Hit, Model SH718SMA

TYPE "K-4" / "Q" OBJECT MARKERS, 24 INCH

- A. Bent Manufacturing "Masterflex" Model MF-360-24
- B. Filtrona Extrusion, Model FG324PE
- C. Carsonite, "Channelizer"
- D. FlexStake, Model 701KM
- E. Safe-Hit, Models SH8 24SMA_WA and SH8 24GP3_WA
- F. The Line Connection, Model DP21-4Q
- G. Three D Traffic Works, ID No. 531702W and TD 5200
- H. Three D Traffic Works, ID No. 520896W

CONCRETE BARRIER MARKERS AND TEMPORARY RAILING (TYPE K) REFLECTORS

IMPACTABLE TYPE

- A. ARTUK, "FB"
- B. Filtrona Extrusion, Models PCBM-12 and PCBM-T12
- C. Duraflex Corp., "Flexx 2020" and "Electriflexx"
- D. Hi-Way Safety, Inc., Model GMKRM100
- E. Plastic Safety Systems "BAM" Models OM-BARR and OM-BWAR
- F. Three D Traffic Works "Roadguide" Model TD 9304

NON-IMPACTABLE TYPE

- A. ARTUK, JD Series
- B. Plastic Safety Systems "BAM" Models OM-BITARW and OM-BITARA
- C. Vega Molded Products, Models GBM and JD
- D. Plastic Vacuum Forming, "Cap-It C400"

METAL BEAM GUARD RAIL POST MARKERS

(For use to the left of traffic)

- A. Filtrona Extrusion, "Mini" (3 inch x 10 inch)
- B. Creative Building Products, "Dura-Bull, Model 11201"
- C. Duraflex Corp., "Railrider"
- D. Plastic Vacuum Forming, "Cap-It C300"

CONCRETE BARRIER DELINEATORS, 16 inch

(For use to the right of traffic)

- A. Filtrona Extrusion, Model PCBM T-16
- B. Safe-Hit, Model SH216RBM

CONCRETE BARRIER-MOUNTED MINI-DRUM (10 inch x 14 inch x 22 inch)

- A. Stinson Equipment Company "SaddleMarker"

GUARD RAILING DELINEATOR

(Place top of reflective element at 48 inches above plane of roadway)

WOOD POST TYPE, 27 INCH

- A. Filtrona Extrusion, FG 427 and FG 527
- B. Carsonite, Model 427
- C. FlexStake, Model 102 GR
- D. GreenLine GRD 27
- E. Safe-Hit, Model SH227GRD
- F. Three D Traffic Works "Guardflex" TD9100
- G. New Directions Mfg, NDM27

STEEL POST TYPE

- A. Carsonite, Model CFGR-327 with CFGRBK300 Mounting Bracket

RETROREFLECTIVE SHEETING

CHANNELIZERS, BARRIER MARKERS, AND DELINEATORS

- A. Avery Dennison T-6500 Series (For rigid substrate devices only)
- B. Avery Dennison WR-7100 Series
- C. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
- D. Reflexite, PC-1000 Metalized Polycarbonate
- E. Reflexite, AC-1000 Acrylic
- F. Reflexite, AP-1000 Metalized Polyester
- G. Reflexite, Conformalight, AR-1000 Abrasion Resistant Coating
- H. 3M, High Intensity

TRAFFIC CONES, 4 INCH AND 6 INCH SLEEVES

- A. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
- B. Reflexite, Vinyl, "TR" (Semi-transparent) or "Conformalight"
- C. 3M Series 3840
- D. Avery Dennison S-9000C

DRUMS

- A. Avery Dennison WR-6100
- B. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II

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- C. Reflexite, "Conformalight", "Super High Intensity" or "High Impact Drum Sheeting"
- D. 3M Series 3810

BARRICADES TYPE I, MEDIUM-INTENSITY (TYPICALLY ENCLOSED LENS, GLASS-BEAD ELEMENT)

- A. Nippon Carbide, CN8117
- B. Avery Dennison, W 1100 series
- C. 3M Series CW 44

BARRICADES: TYPE II, MEDIUM-HIGH-INTENSITY (TYPICALLY ENCLOSED LENS, GLASS-BEAD ELEMENT)

- A. Avery Dennison, W2100 Series

SIGNS: TYPE II, MEDIUM-HIGH-INTENSITY (TYPICALLY ENCLOSED LENS, GLASS-BEAD ELEMENT)

- A. Avery Dennison, T-2500 Series
- B. Nippon Carbide Industries, Nikkalite 18000

SIGNS: TYPE III, HIGH-INTENSITY (TYPICALLY ENCAPSULATED GLASS-BEAD ELEMENT)

- A. Avery Dennison, T-5500A and T-6500 Series
- B. Nippon Carbide Industries, Nikkalite Brand Ultralite Grade II
- C. 3M 3870 and 3930 Series

SIGNS: TYPE IV, HIGH-INTENSITY (TYPICALLY UNMETALLIZED MICROPRISMATIC ELEMENT)

- A. Avery Dennison, T-6500 Series
- B. Nippon Carbide Industries, Crystal Grade, 94000 Series
- C. Nippon Carbide Industries, Model No. 94847 Fluorescent Orange
- D. 3M Series 3930
- E. 3M Series 3924S, Fluorescent Orange

SIGNS: TYPE VI, ELASTOMERIC (ROLL-UP) HIGH-INTENSITY, WITHOUT ADHESIVE

- A. Avery Dennison, WU-6014
- B. Novabrite LLC, "Econobrite"
- C. Reflexite "Vinyl"
- D. Reflexite "SuperBright"
- E. Reflexite "Marathon"
- F. 3M Series RS20

SIGNS: TYPE VII, SUPER-HIGH-INTENSITY (TYPICALLY UNMETALLIZED MICROPRISMATIC ELEMENT)

- A. 3M Series 3924S, Fluorescent Orange
- B. 3M LDP Series 3970

SIGNS: TYPE VIII, SUPER HIGH INTENSITY (TYPICALLY UNMETALLIZED MICROPRISMATIC)

- A. Avery Dennison, T-7500 Series
- B. Avery Dennison, T-7511 Fluorescent Yellow
- C. Avery Dennison, T-7513 Fluorescent Yellow Green
- D. Avery Dennison, W-7514 Fluorescent Orange
- E. Nippon Carbide Industries, Nikkalite Crystal Grade Series 92800
- F. Nippon Carbide Industries, Nikkalite Crystal Grade Model 92847 Fluorescent Orange

SIGNS: TYPE IX, SUPER HIGH INTENSITY (TYPICALLY UNMETALLIZED MICROPRISMATIC)

- A. 3M VIP Series 3981 Diamond Grade Fluorescent Yellow
- B. 3M VIP Series 3983 Diamond Grade Fluorescent Yellow/Green
- C. 3M VIP Series 3990 Diamond Grade
- D. Avery Dennison T-9500 Series
- E. Avery Dennison, T 9513, Fluorescent Yellow Green
- F. Avery Dennison, W9514, Fluorescent Orange

SPECIALTY SIGNS

- A. Reflexite "Endurance" Work Zone Sign (with Semi-Rigid Plastic Substrate)

ALTERNATIVE SIGN SUBSTRATES

FIBERGLASS REINFORCED PLASTIC (FRP) AND EXPANDED FOAM PVC

- A. Fiber-Brite (FRP)
- B. Sequentia, "Polyplate" (FRP)
- C. Intoplast Group "InteCel" (0.5 inch for Post-Mounted CZ Signs, 48 inch or less)(PVC)

ALUMINUM COMPOSITE, TEMPORARY CONSTRUCTION SIGNS ONLY

- A. Alcan Composites "Dibond Material, 80 mils")
- B. Mitsubishi Chemical America, Alpolic 350

Pre-qualified and Tested Signing and Delineation Materials

Supplement No.1

Date 10/20/06

NOT TO BE INCLUDED IN SSP'S

This supplement listing is maintained by Traffic Operations at the request of Highway Maintenance. Products listed below are stocked by Caltrans, the Office of Procurement and

QPL_Final_DGS

Contracts and used by Caltrans Highway Maintenance Personnel. These product categories are not included in the listing of Pre-qualified and Tested Signing and Delineation Materials included in the SSPs, however, they may be used by contractors on California State Highways provided the products conform to Caltrans Standards Specifications.

TRAFFIC CONES, [28"]

- A. Highway Safety products, Part #432810CTR64B
- B. JBC Traffic Cone, Model RC70045CT

PORTABLE HIGH-LEVEL FLAG-SIGN SUPPORT

- A. QUADPOD (4 legs)
 - 1. Hawkins Traffic Safety Supply Co. Model V2EC-4401-4AC
 - 2. TrafFix Devices, Inc. "Econo-Buster" Model 80018
- B. DRIVE STAND (No Legs)
 - 1. Sierra Safety Co. Inc., "Quick Stand"

BARRICADES, TYPE I, (Plastic)

- A. Bent Manufacturing, Unicade
- B. Three D Traffic Works, Econocade model TD2150 and model 2100

GROUND MOUNTED SMALL SIGN SUPPORTS

- A. Unistrut, "Quick Punch" (2") 14 Ga.
- B. Unistrut, "Telespar" (2") 12 Ga., (2.5") 10Ga.
- C. Western Highway Products Ulti-Mate, (2" & 2.5"), Both 12 & 14 Ga.

Note: This listing includes product manufacturers that have provided materials conforming to Caltrans Specifications. Products are routinely monitored to insure they continue to meet these specification and requirements.

For questions regarding this listing contact: Devinder Singh, Traffic Operations, (916) 654-4715 CALNET 8-464-4715 or Lisa Dobeck at (916) 227-7291 or Andy Rogerson, Transportation Laboratory, (916) 227-7289, 8-498-7289.



To: Caltrans DPAC Warehouse-Receiving

From: _____

Phone(____) _____ Fax(____) _____

Caltrans PO#: _____

Expected Arrival Date: _____

Date Shipped: _____

Carrier: _____

Please contact the Warehouse by Phone (916) 263-0463 or by fax at (916) 263-0871 at least 48 hours in advance to schedule a deliver time. Unscheduled deliveries are subject to rejection.

The Warehouse accepts deliveries from 7 a.m. to 12 noon and 12:30 to 3:00 p.m. Monday-Friday except for State holidays.