



**Traffic Operations**

**APPROVED PRODUCTS LIST**

**TRAFFIC SIGNALS AND HIGHWAY  
LIGHTING EQUIPMENT**

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## TRAFFIC SIGNALS AND HIGHWAY LIGHTING EQUIPMENT

### I. GENERAL

This Approved Products List (APL) is based on equipment meeting department specifications and being tested for the specified test period with satisfactory performance. All models shall conform to the latest revision of the Missouri Standard Specifications for Highway Construction unless otherwise indicated. The models indicated on the list are approved, but are subject to final field inspection before acceptance.

The department frequently tests new products and equipment for traffic signals and highway lighting. These new products may be installed on a construction project, purchased on parts orders or with controller orders. Vendors may also submit items, at no cost to the department, for the test period. Only a limited number of units will be accepted for test statewide until an item is added to the Approved Products List. A vendor wishing to initiate a test on a new product shall submit a Product Evaluation Request Form - Signal and Lighting Equipment. Copies of this form can be obtained from our website at [www.modot.state.mo.us](http://www.modot.state.mo.us) or contact MoDOT Traffic Operations. Minor model changes do not require an evaluation period, although the vendor shall submit specification sheets and a sample of the product for the Department to inspect.

All equipment evaluations are coordinated through MoDOT Traffic Operations. The vendor supplying the equipment shall provide equipment specifications and a certification that the equipment meets department specifications before the test is performed. The equipment is tested for the period specified on the APL. Products that are not performing satisfactorily will be replaced with an approved product if the vendor cannot provide timely correction of the problem or if unsatisfactory operation of the intersection results.

If a vendor is proposing a product that does not meet department specifications, an explanation of why the product meets or exceeds the current specifications must be provided by the vendor in writing to Traffic Operations. If approved, the product may be tested for the specified period as described above. If the product is satisfactory, the Department will consider a revision to the applicable specifications. Products will not be added to the Approved Products List that do not meet department specifications.

Products on the APL shall continue to perform satisfactorily. In addition, the vendors shall support the products. Products not performing as required or not supported are subject to removal from the APL.

Grounds for removal of products include but are not limited to:

- Significant change in product specifications or design without notification to the department.

- Failure to correct or replace products that are defective in manufacturing or workmanship.

- Repeated patterns of malfunctions of a product not adequately corrected by the vendor.

- Unreasonable pricing of repair parts or repair work. Repair work not completed in a reasonable time frame.

- Excessive delivery times for new purchases or replacement parts.

Changes in standard specifications may also necessitate removal of specific products from the APL. If this occurs, there will be a grace period where the product will be retained on the list after the specifications are changed. However the product will be removed from the list if it is not revised to meet specifications.

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## II. TRAFFIC SIGNAL EQUIPMENT

All traffic signal equipment requires a one-year evaluation period.

### CONTROLLERS

#### NEMA TS1 CONTROLLERS

#### MODEL

Eagle.....	EPAC Genesis M40
Eagle.....	EPAC M42
Eagle.....	EPAC M52
Econolite.....	ASC/2-2100
Econolite.....	ASC/2S-2100
Econolite.....	ASC/3-2100
Naztec.....	980
Peek.....	3000
Traffic Control Technologies (TCT).....	LMD-8000

#### NEMA ON-STREET MASTER CONTROLLER

#### MODEL

Eagle.....	MARC 360
Econolite.....	KMC-10,000
Econolite.....	ASC/2M

#### SOLID STATE PRETIMED CONTROLLERS (ALL TYPES)

#### MODEL

Eagle.....	EPIC Series
Traffic Control Technologies (TCT).....	LMD 40 Series

#### 170 CONTROLLERS

#### MODEL

Eagle.....	170E
McCain.....	170E
Phillips/Sisson Industries, Inc. ....	170E
Safetran.....	170E

### CABINETS AND BACK PANELS (NEMA & S.S. PRETIMED)

***NOTE: Cabinets and Back panels that meet MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide a model that meets specifications and complete a satisfactory one-year evaluation as described above to be added to the list.***

#### NEMA CABINET AND BACK PANEL ASSEMBLIES

- Control Technology
- Eagle
- Econolite
- Henke/Bison
- IDC/Gibbons
- Naztec P-44

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## SOLID STATE PRETIMED CABINET AND BACK PANEL ASSEMBLIES

Eagle

## CABINETS AND RACKS (TYPE 170 CONTROLLERS)

**NOTE: Cabinets and Racks that meet MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide a model that meets specifications and complete a satisfactory one-year evaluation as described above to be added to the list.**

### 332 AND 336S CABINET AND RACK ASSEMBLIES

McCain  
Phillips/Sisson Industries, Inc.  
Safetran

## CONFLICT MONITORS

### NEMA CONFLICT MONITORS

### MODEL

Eberle Design Incorporated (EDI).....	NSM-6
Eberle Design Incorporated (EDI).....	NSM-12
Eberle Design Incorporated (EDI).....	SSM-12LE
Naztec, Incorporated .....	NM512
Peek/Transyt.....	1200
Power Distribution & Control (PDC).....	CM82-03
Power Distribution & Control (PDC).....	CM82-06
Power Distribution & Control (PDC).....	CM82-12
Reno A&E .....	MMU-1600
Solid State Devices.....	NM-6
Solid State Devices.....	NM-12
Solid State Devices.....	LCD-6P
Solid State Devices.....	LCD-12P
Traffic Control Technologies (TCT) .....	LNM Series

### 170 CONFLICT MONITORS

### MODEL

Eberle Design Incorporated (EDI).....	210E
Reno A & E .....	2018
Solid State Devices.....	210P

## CABINET ACCESSORIES

### AUXILIARY TIME CLOCK

### MODEL

Eltec .....	NTC-17E
Eltec .....	TC-14
RTC.....	AP41

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

**EXTERNAL T.B.C. COORDINATORS** **MODEL**

Eltec .....TC-14

**FLASHERS  
(NEMA & 170)** **MODEL**

Eberle Design Incorporated (EDI).....810  
 Power Distribution & Control (PDC).....SSF-86  
 Power Distribution & Control (PDC).....SSF-88  
 Reno A & E .....FL-200  
 Traffic Sensor Corp.....204  
 Traffic Sensor Corp.....204-15  
 Traffic Sensor Corp.....304  
 Traffic Sensor Corp.....304-15

**FLASH TRANSFER RELAYS** **MODEL**

AMECO .....136-4962  
 Struthers-Dunn.....21ACPX-2/21ACPXD-5  
 Mid-Tex .....136-62T-3A1  
 Power Distribution & Control (PDC).....FTR 91  
 Reno .....TR-200

**LOAD SWITCHES  
(NEMA & 170)** **MODEL**

Eberle Design Incorporated (EDI).....510  
 Power Distribution & Control (PDC).....SSS-86  
 Power Distribution & Control (PDC).....SSS-88  
 Reno A & E .....LS-200  
 Traffic Control Technologies (TCT) .....SSS-86  
 Traffic Sensor Corp.....200  
 Traffic Sensor Corp.....200-15  
 Traffic Sensor Corp.....300  
 Traffic Sensor Corp.....300-15

**ISOLATORS (170 only)  
(242=DC, 252=AC)** **MODEL**

GDI.....242  
 GDI.....252  
 Power Distribution & Control (PDC).....242  
 Power Distribution & Control (PDC).....252  
 Safetran .....242  
 Safetran .....252

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

**SURGE PROTECTORS**

**MODEL**

Edco.....SHA 1210  
Edco.....SHA-1250

**TONE RECEIVERS**

**MODEL**

Iniven .....IR30M-05-30

**TONE TRANSMITTERS**

**MODEL**

Iniven .....IT30

**DETECTORS**

**MICROWAVE DETECTORS**

**MODEL**

Microwave Sensors.....TC-26B  
Electronic Integrated Systems, Inc. (EIS) .....RTMS X-2

**MICROLOOP, PROBE**

**MODEL**

3M.....Canoga 701

**PEDESTRIAN PUSH BUTTONS**

**MODEL**

**POWER SUPPLY FOR CARD RACK DETECTORS - NEMA**

**MODEL**

ICC.....PS24  
PGK .....PS-1.2

**SINGLE CHANNEL SHELF MOUNT DETECTORS, STANDARD**

**MODEL**

Eberle Design Incorporated (EDI).....LM301  
Sarasota.....535B/MS

**SINGLE CHANNEL SHELF MOUNT DETECTORS, TIME DELAY**

**MODEL**

Eberle Design Incorporated (EDI).....LM301T  
Sarasota.....535T/MS

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

**ULTRASONIC DETECTORS**

**MODEL**

Microwave Sensors.....TC-30

**2-CHANNEL CARD RACK COUNTING  
DETECTORS, DUAL OUTPUT**

Eberle Design Incorporated (EDI).....LM632

**2-CHANNEL CARD RACK COUNTING  
DETECTORS, SINGLE OUTPUT PULSE MODE  
(170)**

**MODEL**

Sarasota.....222-GP5  
Sarasota.....222 GP6

**2-CHANNEL CARD RACK COUNTING  
DETECTORS, SINGLE OUTPUT PULSE MODE  
(NEMA)**

**MODEL**

Eberle Design Incorporated (EDI).....LM632T  
ICC.....S27B  
Reno A & E .....C

**2-CHANNEL CARD RACK DETECTORS, STANDARD  
(170)**

**MODEL**

Eberle Design Incorporated (EDI).....LM222  
Reno A & E .....222  
Sarasota.....222-GP5  
Sarasota.....222 GP6

**2-CHANNEL CARD RACK DETECTORS, STANDARD  
(NEMA)**

**MODEL**

Eberle Design Incorporated (EDI).....LM602R  
ICC.....S27B  
Reno A & E .....C  
Reno A & E .....G

**2-CHANNEL CARD RACK DETECTORS, TIME DELAY  
(170)**

**MODEL**

Sarasota.....222T-GP5  
Sarasota.....222T GP6

**2-CHANNEL CARD RACK DETECTORS, TIME DELAY  
(NEMA)**

**MODEL**

3M.....Canoga C800 Series  
Eberle Design Incorporated (EDI).....LMD602TR

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## SIGNAL HEADS

### BACKPLATES

### MODEL

Neodesia Plastics.....	BP Series
Pelco.....	BK-100x Series
Chapel Hill.....	44xx Series

### HARDWARE

**NOTE:** Hardware that meets MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide equipment that meets specifications and complete a satisfactory six-month evaluation as described above to be added to the list.

Pelco	
Reliable 3/8" Strandvise.....	5202
Reliable 1/4" Strandvise.....	5200

### LOUVERS

### MODEL

Pelco.....	GPL
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### POLYCARBONATE SIDE-MOUNT BRACKETS WITH RELATED HARDWARE

### MODEL

Component Products.....	Any
Eagle.....	UKS1452AB

### SIGNAL HEADS - ALUMINUM CONVENTIONAL

### MODEL

Automatic/Eagle.....	SIG Series
McCain.....	MTSA Series
Safetrans/IDC.....	ST Series
Traffic Control Technologies (TCT).....	HSS Series

### SIGNAL HEADS - ALUMINUM PEDESTRIAN

### MODEL

Automatic/Eagle.....	SIG Series
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### SIGNAL HEADS - OPTICALLY LIMITED

### MODEL

McCain.....	HPTS Series
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### SIGNAL HEADS - POLY CONVENTIONAL

### MODEL

Chapel Hill.....	SIG-TPB-305-CTN-NVN-0N (3 section)
Chapel Hill.....	SIG-TPB-586-CTN-NVN-0N (5 section)
Eagle.....	SA Series
General Traffic Equipment Corp.....	T-30 POLY
IDC/Safetrans.....	LT Series
McCain.....	MTSTP Series
Traffic Control Technologies (TCT).....	PSS Series

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## PEDESTRIAN HEAD – POLY 1-SECTION

## MODEL

McCain .....	M32258L (clamshell mount left)
McCain .....	M32258R (clamshell mount right)
McCain .....	M32258 (side-of-pole mount)

## PEDESTRIAN HEAD MOUNTING – CLAMSHELL

## MODEL

McCain .....	P9050B
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## PEDESTRIAN LED SIGNAL INDICATION

Act One Communications, Inc.....	TP-16WP-1
Dialight.....	430-6473-001
Dialight.....	430-6450-001X
Duralight .....	JXM-400VIAL
Gelcore .....	PS7-CFC1-01A
Gelcore .....	PS7-CFC1-26A
Leotek.....	TSL-PED-DP-16-FS

## SIGNAL LENSES-GLASS

## MODEL

Eagle .....	PBL Series
Kopp .....	Any
McCain .....	MSP Series

## POSTS AND MAST ARMS

***Note: Posts and Mast Arms do not require an evaluation period. Posts and Mast Arms shall be fabricated in accordance with MoDOT specifications and standards. Posts and Mast Arms shall be pre-approved as required by the MoDOT standards and specifications to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Posts and Mast Arms are subject to field inspection before acceptance.***

## STEEL POSTS AND MAST ARMS

## DRAWING NUMBER

Ameron International .....	MO9811 - Rev. 9 (Type C)
Ameron International .....	MO9812 - Rev. 10 (Type CL)
JEM Engineering & Manufacturing.....	MODOT1-4 Rev. 2 (Types C, CL, B & BL)
Maico Industries, Inc. ....	MOMAST 1-5A Rev. 1-6 (Types C, CL, B & BL)
Millerbernd Manufacturing Company .....	780C388 (Type B)
Millerbernd Manufacturing Company .....	780C389 (Type BL)
Millerbernd Manufacturing Company .....	780C49 (Type C)
Millerbernd Manufacturing Company .....	780C51 (Type CL)
Millerbernd Manufacturing Company .....	500A971
Pelco Structural, LLC .....	MODMA1001 & 1002 (Type B)
Pelco Structural, LLC .....	MODMAL1001 & 1002 (Type BL)
Pelco Structural, LLC .....	MOSMA1001 & 1002 (Type C)
Pelco Structural, LLC .....	MOSMAL1001 & 1002 (Type CL)
Union Metals.....	30443-B202 - Rev. 19 (Types C, CL, B & BL)
Valmont .....	DB00408 - Rev. C (Types C, CL, B & BL)

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## MISCELLANEOUS

### **LOOP SEALANTS**

(Loop sealants do not require material certification)

### **MODEL**

3M.....	5000
Bondo .....	560
Bondo .....	575
Bondo .....	P606
Chemque .....	290S
Chemque .....	296-06
Durant Paints.....	Stat-A-Flex Polyseal
RAI Products .....	Pro-Seal 6006

### **PEDESTAL BASES**

### **MODEL**

Akron Foundry .....	TS-1000-L-P
Akron Foundry .....	TS-1000-L-WP
Component Products.....	CPI-BAS-1
Pelco.....	PB5336
Pelco.....	PB5337
Pelco.....	PB5340
Pelco.....	PB5341
Traffic Parts .....	TP 289 X

### **SPLICE KITS (DETECTOR LEAD-IN)**

### **MODEL**

3M.....	DBY Series
HOMAC HMC Industries .....	RAB 1/0 Series

### **METER SERVICE PEDESTAL (SIGNALS/SIGNALS & LIGHTING) MODEL**

Milbank 120V Signal Only .....	CP3B51C1PAAOMO1
Milbank 120V Signal with 2 –Circuit 240V Lighting.....	CP3B51C1PBAOMO2
Milbank 120V Signal with 2-Circuit 240V Lighting Dual Meter.....	CP3B62C2NBAOMO1
Myers 120V Signal with 2-Circuit 240V Lighting .....	MEUGLA-M100-MDOT
Myers 120V Signal with 2-Circuit 240V Lighting .....	MEUG 20
Pacific Utility Products 120V Signal with 2-Circuit 240V Lighting .....	USPA-100-100-MODOT
Pacific Utility Products 120V Signal with 2-Circuit 240V Lighting .....	USP16-M2100-112C-MODOT
Tesco 120V Signal with 2-Circuit 240V Lighting .....	28-105 Type III BF
Tesco 120V Signal with 2-Circuit 240V Lighting .....	28-102F

## SIGNAL BULBS

### **OPTICALLY LIMITED**

### **MODEL**

3M.....	78-8008-7703-3
General Electric (GE) .....	150PAR46/TS
Philips .....	150PAR46/TS

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

<b>STANDARD - 1260 LUMEN (8 inch indications)</b>	<b>MODEL</b>
Sylvania .....	116A21TS8M

<b>STANDARD - 1750 LUMEN (12 inch indications)</b>	<b>MODEL</b>
Aero-Tech.....	01605
Aero-Tech.....	01614
H&H Industries .....	HH229
H&H Industries .....	HH217
Philips .....	K135A21/TS/EW
Radiant .....	K135A21TS
Sylvania .....	135A21/TS/8M/SS

**LIGHT EMITTING DIODES (LED)**

<b>REGULAR VIEW</b>	<b>MODEL</b>
Act One Communications, Inc. ....	T1-08A-0004 (8" Yellow Ball – for use at fire stations)
Act One Communications, Inc. ....	TA-12A-5 (Yellow Arrow)
Act One Communications, Inc. ....	TA-12G-5 (Green Arrow)
American LED Signal, Inc. ....	ASC-0300-GA1 (Green Arrow)
American LED Signal, Inc. ....	ASC-0300-YA1 (Yellow Arrow)
Dialight.....	431-3334-001 Rev. B2 (Yellow Arrow)
Dialight.....	432-2374-001 (Green Arrow)
Dialight.....	431-3334-001X (Yellow Arrow)
Dialight.....	432-2324-001X (Green Arrow)
Duralight .....	JXJ-300VIGB (Green Arrow)
Duralight .....	JXJ-300VIYB (Yellow Arrow)
GELcore .....	DR4-YTFB-20A-22 (8" Yellow Ball – for use at fire stations)
GELcore .....	DR6-YTAAAN-21A (Yellow Arrow)
GELcore .....	DR6-GCAAN-21A (Green Arrow)
Ledtronics.....	TRF-108-OPY-120A (8" Yellow Ball – for use at fire stations)
Leotek.....	TSL-12YA-MF-A1 (Yellow Arrow)
Leotek.....	TSL-12GA-MF-A1 (Green Arrow)

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## EXPANDED VIEW

## MODEL

Act One Communications, Inc.....	T1-12R-W (Red Ball)
Act One Communications, Inc.....	T1-12G-W (Green Ball)
Act One Communications, Inc.....	T1-12A-W (Yellow Ball)
Dialight.....	433-1210-003 (Red Ball)
Dialight.....	433-2270-001 (Green Ball)
Dialight.....	433-3230-001 (Yellow Ball)
Dialight.....	435-1210-001 (Red Ball)
Dialight.....	435-2220-001 (Green Ball)
Dialight.....	435-3230-001 (Yellow Ball)
Duralight .....	JXC300-CAG (Green Ball)
Duralight .....	JXC300-CAY (Yellow Ball)
Duralight .....	JXC300-CAR (Red Ball)
GELcore .....	DR6-RTFB-20A-40 (Red Ball)
GELcore .....	DR6-GCFB-20A-40 (Green Ball)
GELcore .....	DR6-YTFB-20A-40 (Yellow Ball)
Leotek.....	TSL-EV12R-HP3-A1 (Red Ball)
Leotek.....	TSL-EV12G-HP3-A1 (Green Ball)
Leotek.....	TSL-EV12Y-HP1-A1 (Yellow Ball)

## PROGRAMMABLE VIEW

## MODEL

Dialight.....	P463R33003 (Red Ball)
Dialight.....	P463Y33003 (Yellow Ball)
Dialight.....	P463G33003 (Green Ball)
GELcore .....	DR3-RCFB-01A (Red Ball)
GELcore .....	DR3-YCFB-01A (Yellow Ball)
GELcore .....	DR3-GCFB-01A (Green Ball)

## VIDEO DETECTION SYSTEMS

### VIDEO DETECTOR

### MODEL

Econolite.....	Autoscope 2020
Econolite.....	Autoscope RackVision
Econolite.....	Autoscope RackVision Terra
Econolite.....	Autoscope Solo Terra
Econolite.....	Autoscope Solo Pro
Iteris.....	Vantage Edge2
Traficon.....	VIP 3.1
Traficon.....	VIP 3.2

**MISSOURI DEPARTMENT OF TRANSPORTATION  
APPROVED PRODUCTS LIST**

**III. HIGHWAY LIGHTING**

All highway lighting equipment require a one-year evaluation period except for items noted requiring a six-month evaluation.

**LIGHTING POLES**

*Note: Poles do not require an evaluation period. Poles shall be fabricated in accordance with MoDOT specifications and standards. They shall be pre-approved as required by the MoDOT standards and specifications in order to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Lighting poles are subject to field inspection before acceptance.*

**STEEL POLES**

**DRAWING NUMBER**

Ameron International .....	MO98AT3 – Rev. 4 (Type AT45) Design 1 & 2
Ameron International .....	MO98AT2 – Rev. 4 (Type AT45)Design 3, 4 & 5
Ameron International .....	MO98AT4 – Rev. 3 (Type AT30)
Ameron International .....	MO98B2 – Rev. 3 (Type B45 & MB45)
Ameron International .....	MO98B4 – Rev. 2 (Type B30)
JEM Engineering and Manufacturing .....	MO-AT30 – Rev. 3 (Type AT30)
JEM Engineering and Manufacturing .....	MO-AT45 – Rev. 3 (Type AT45)
Millerbernd Manufacturing Co. ....	730B907 (Type AT30)
Millerbernd Manufacturing Co. ....	730B653 (Type AT45)
Millerbernd Manufacturing Co. ....	730B908 (Type B30)
Millerbernd Manufacturing Co. ....	730B909 (Type B45)
Millerbernd Manufacturing Co. ....	730B910 (Type MB45)
Union Metals.....	71020-B2 - Rev. 5 (Type AT30)
Union Metals.....	71020-B3 - Rev. 4 (Type B30)
Union Metals.....	71019-B6 - Rev. 7 (Type AT45)
Union Metals.....	71019-B7 - Rev .4 (Types B45 & MB45)
Union Metals.....	71019-B8 – Rev. 3 (Type B30)
Union Metals.....	71019-B9 – Rev. 3 (Type B45)
Union Metals.....	71019-B10 – Rev. 3 (Type MB45)
Union Metals.....	71020-B103 – Rev. 3 (Type AT30)
Union Metals.....	71020-B104 – Rev. 4 (Type AT45)
Valmont .....	DB00019 – Rev. N (Types AT30 & B30)
Valmont .....	DB00020 – Rev. N (Types AT45, B45 & MB45)

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## FOUNDATIONS

**Note:** *Screw anchor foundations do not require an evaluation period. Screw anchor foundations shall be fabricated in accordance with MoDOT specifications and standards. They shall be pre-approved as required by the MoDOT standards and specifications in order to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Screw anchor foundations are subject to field inspection before acceptance.*

### SCREW ANCHOR FOUNDATIONS

### DRAWING NUMBER

Component Products, Inc. ....	SLSF 8-5 (Type AT30)
Component Products, Inc. ....	SLSF 10-7 (Type AT45)
J. H. Botts .....	JHB MOH 30 – Rev. C (Type AT30)
J. H. Botts .....	JHB MOH 45 – Rev. D (Type AT45)
Hubbell Chance .....	SA112-0696 – Rev. G (Type AT30)
Hubbell Chance .....	SA112-0786 – Rev. D (Type AT45)

## LUMINAIRES

**NOTE:** *Luminaires will not be furnished with photoelectric cells. Receptacles will have a shorting plug in place of cell. Multi-tap ballast for 120 Volt and 240 Volt fixtures is permissible.*

### BRACKET ARM MOUNT - 150 WATT

### MODEL

American Electric Lighting .....	115 Series
American Electric Lighting .....	Durastar 2000, Series 30
Crouse-Hinds/Cooper .....	OVZ Series
Crouse-Hinds/Cooper .....	OVX Series
General Electric (GE).....	M2RR Series
Holophane.....	Mongoose Series

### BRACKET ARM MOUNT - 250 WATT

### MODEL

American Electric Lighting .....	115 Series
American Electric Lighting .....	Durastar 2000, Series 30
Crouse-Hinds/Cooper .....	OVZ Series
Crouse-Hinds/Cooper .....	OVX Series
General Electric (GE).....	MSRL Series
Holophane.....	Mongoose Series

### BRACKET ARM MOUNT - 400 WATT

### MODEL

American Electric Lighting .....	125 Series
American Electric Lighting .....	Durastar 2000, Series 30
Crouse-Hinds/Cooper .....	OVX Series
General Electric (GE).....	MSRL Series
Holophane.....	Mongoose Series

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## HIGH MAST LIGHTING

## MODEL

*NOTE: High mast lighting is custom designed for the location. Fixtures from the following manufacturer's series are considered pre-approved.*

Cooper .....	HMC Series
General Electric (GE).....	HMA Series
Holophane.....	HMAO Series
Holophane.....	HMS Series
Metrolux .....	VA Series

## POLE TOP MOUNTING

## MODEL

Holophane.....	HL2A Series
Holophane.....	Mongoose Series

## SIGN LIGHTING - 250 WATT

## MODEL

General Electric (GE).....	V2FN Series
Guth .....	B17632 Series
Holophane.....	PANL Series
Holophane.....	SNVW Series

## SIGN LIGHTING - 400 WATT

## MODEL

Holophane.....	PANL Series
Holophane.....	SNVW Series

## UNDERPASS (WALLPACKS)

## MODEL

American Electric Lighting .....	582 Series
Cooper .....	WPK Series
General Electric (GE).....	WAL Series
Holophane.....	MDWP Series
Holophane.....	WL2K Series
Hubbell .....	PGM-150S Series

## CONTROL EQUIPMENT

### CONTACTORS-ELECTROMECHANICAL

### MODEL

Square D.....	Type S
Westinghouse/Cutler-Hammer .....	A202 Series

### CONTACTORS-MERCURY

### MODEL

Dayton/Duracool .....	6A/6X Series
Magnecraft.....	WM Series

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## BASE MOUNTED CONTROL CABINETS

**NOTE: Cabinets that meet MoDOT specifications from the following manufacturers will be accepted. All other manufacturers must provide a model that meets specifications and complete a satisfactory six-month evaluation as described above to be added to the list.**

Cleveland Switchboard  
Coxline  
Hoffman  
Shallbetter  
Inland Technologies

## LIGHTNING ARRESTER

## MODEL

Delta .....LA 600 Series  
General Electric Tranquell .....9L15ECB001

## MOUNTING SOCKET FOR PHOTOELECTRIC CONTROL.....MODEL

**NOTE: Mounting sockets require a six-month evaluation.**

American Electric Lighting .....PBC  
Fischer-Pierce.....S476-71  
General Electric (GE).....MB-PECTL

## PHOTOELECTRIC CONTROL

## MODEL

Area Lighting Research .....SST-120 (120 volt)  
Area Lighting Research .....SST-240 (240 volt)  
Area Lighting Research .....SST-PV (120/240 volt)  
American Electric Lighting .....D120-1.0-STJ (Dark to Light) (120 volt)  
American Electric Lighting .....D124-1.0-STJ (120/240 volt)  
American Electric Lighting .....D240-1.0-STJ (240 volt)  
American Electric Lighting .....DE480-1.0-TJ (480 volt)  
Fischer-Pierce.....FPN7790B (105 – 285 volt)  
Fischer-Pierce.....FPN7772 (195 – 305 volt)  
Fischer-Pierce.....FPN7794 (480 volt)  
Fischer-Pierce.....FPN7760 (120 volt)  
General Electric (GE).....PEC01TL (>120v/< 305v w/ time delay)  
General Electric (GE).....PEC1TL (120v)  
General Electric (GE).....PEC5TL (480v)  
ITT .....SAT-15

## TYPE A CIRCUIT BREAKERS

## MODEL

Square D.....FAL Series  
Westinghouse/Cutler-Hammer .....EHD Series (1-Pole)  
Westinghouse/Cutler-Hammer .....FDB Series (2-Pole)

**MISSOURI DEPARTMENT OF TRANSPORTATION  
APPROVED PRODUCTS LIST**

**MISCELLANEOUS**

**AVIATION LIGHTING**

**MODEL**

Hughey & Philips.....KG114

**FUSED SLIP CONNECTORS**

**MODEL**

***NOTE: Slip connectors require a six-month evaluation.***

Buss .....HEB-JWRYC

**METER SERVICE PEDESTAL (LIGHTING)**

**MODEL**

Milbank 2-Circuit 240V Lighting .....CP3B51C1PBAOMO3  
 Milbank 4-Circuit 480V Lighting .....CP3B51D1PBAOMO1  
 Milbank 4-Circuit 480V Lighting (used for Ameren cold sequence) ....CP3B51D1PBAOMOCS1  
 Pacific Utility Products 4-Circuit 480V Lighting.....USP16-M2100-112C-MODOT

**NAVIGATION LIGHTING**

**MODEL**

Tideland .....ML-140 with TF-3AC Lamp Changer  
 Automatic Power, Inc.....FA-143

**SPLICE KITS**

**MODEL**

3M .....82A1 (Single)  
 3M .....82A2 (Single)  
 3M .....82B1 (Three Way)  
 3M .....82B2 (Three Way)  
 HOMAC HMC Industries.....RAB 1/0 Series

**TRANSFORMER BASES**

**MODEL**

Akron Foundry .....TB1-17H (for AT30)  
 Akron Foundry .....TB3-17H (for AT45)

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## IV. POWER SUPPLY EQUIPMENT AND PULL BOXES

All items require a six-month evaluation period.

### MAIN SERVICE DISCONNECT ENCLOSURE WITH SAFETY SWITCH (NEMA 4)

#### MODEL

General Electric (GE).....	TE 100 CS
Square D.....	FA-100-DS Series E2
Westinghouse .....	WFDN 100

### PREFORMED PULL BOX-CLASS 1

#### MODEL

#### Straight

Armorcast Products Company.....	A6001640TAPCX22 (Box & Lid)
Carson Industries .....	H1730-24 (Box)
Highline .....	PHA173024HO1R
.....	H1730-PI (Lid)
Strongwell/Quazite.....	PG1730B532 (Box)
	PG1730H511 (Lid)
	PG1730BA Series
Synertech.....	S1730B24AA (Box)
	S1730HBB0A (Lid)

#### Flared

Armorcast Products Company.....	A6001640TAX24 (Box & Lid)
CDR .....	SA12-1730-22 Series (Box & Lid)
Highline .....	CHA173024HO1R
NewBasis .....	FCA173022CC4126-62 (Box & Lid)
NewBasis .....	FCA173022CC4749-61 (Box & Lid)
NewBasis .....	FCA173024CC40303 (Box & Lid)
Pencell Plastics.....	PEM-1830-PCX (Box & Lid)

### PREFORMED PULL BOX-CLASS 2

#### MODEL

#### Straight

Armorcast Products Company.....	A6001974TAPCX26 (Box & Lid)
Armorcast Products Company.....	A6001974TAPCX24
Carson Industries.....	H2436-24 (Box)
.....	H2436-PI (Lid)
Highline .....	PHA243624HO1R
Strongwell/Quazite.....	PG2436B539 (Box)
	PG2436H508 (Lid)
	PG2436BA Series
Synertech.....	S2436B26AA (Box)
	S2436HCB0A (Lid)

**MISSOURI DEPARTMENT OF TRANSPORTATION  
APPROVED PRODUCTS LIST**

**Flared**

Armorcast Products Company.....	A6001974TAX26 (Box & Lid)
Armorcast Products Company.....	A6001974TAX24
CDR .....	SA12-2436-24 Series (Box & Lid)
Highline .....	CHA243624HO1R
NewBasis .....	FCA243630CC4126-61 (Box & Lid)
NewBasis .....	FCA243630CC4749-61 (Box & Lid)
NewBasis .....	FCA243624CC40716 (Box & Lid)
Pencell Plastics.....	PEM-2436-36 (Box & Lid)
Pencell Plastics.....	PEM-2436-PCX-24 (Box & Lid)
Synertech.....	S2436B24AA (Box)
.....	S2436HCB0A (Lid)

**PREFORMED PULL BOX-CLASS 3**

**Straight**

Armorcast Products Company.....	A6001430TAPCX36 (Box & Lid)
Carson Industries.....	H3048-36 (Box)
.....	H3048-P1 (Lid)
Highline .....	PHA304836HO1R
Strongwell/Quazite.....	PG3048B560 (Box)
.....	PG3048H517 (Lid)
.....	PG3048BA Series
Synertech.....	S3048B36AA (Box)
.....	S3048HCB0A (Lid)

**MODEL**

**Flared**

Armorcast Products Company.....	A6001550TAX36 (Box & Lid)
CDR .....	SA12-3048-36W Series (Box & Lid)
Highline .....	CHA304836HO1R
NewBasis .....	FCA304836EE4749-61 (Box & Lid)
NewBasis .....	FCA304836EE40304 (Box & Lid)
Pencell Plastics.....	PEM-3048-36-PCX-SPLIT (Box & Lid)

**PREFORMED PULL BOX-CLASS 5**

**Flared**

Armorcast Products Company.....	A6001466TA (Box & Lid)
Armorcast Products Company.....	A6000172TAX36 (Box & Lid)
CDR .....	SA12-3200-36 (Box & Lid)
NewBasis .....	FCA540036C4800 (Box & Lid)
NewBasis .....	FCA540036C40336 (Box & Lid)
NewBasis .....	FCA540036-MODOT

**MODEL**

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

**Added:**

**Steel Posts (Signals)**

Maico Industries, Inc. ....	MOMAST 1-5A Rev. 1-6 (Types C, CL, B & BL)
Millerbernd Manufacturing Company .....	780C388 (Type B)
Millerbernd Manufacturing Company .....	780C389 (Type BL)
Millerbernd Manufacturing Company .....	780C49 (Type C)
Millerbernd Manufacturing Company .....	780C51 (Type CL)
Pelco Stlstructural, LLC.....	MODMA1001 and 1002 (Type B)
Pelco Structural, LLC .....	MODMAL1001 and 1002 (Type BL)
Pelco Structural, LLC .....	MOSMA1001 and 1002 (Type C)
Pelco Structural, LLC .....	MOSMAL1001 and 1002 (Type CL)

**Steel Poles (Lighting)**

JEM Engineering and Manufacturing .....	MO-AT30 – Rev. 3 (Type AT30)
JEM Engineering and Manufacturing .....	MO-AT45 – Rev. 3 (Type AT45)

**Screw Anchor Foundations**

Component Products, Inc.....	SLSF 8-5 (Type AT30)
Component Products, Inc.....	SLSF 10-7 (Type AT45)

**Meter Service Pedestal (Lighting)**

Milbank 4-Circuit 480V Lighting (used for Ameren cold sequence).....	CP3B51D1PBAOMOCS1
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**Removed**

**Pedestrian Push Button – New specifications and these no longer meet**

Campbell .....	DCC-200
Pelco .....	SE-2000-00
Pelco .....	SE-2001-00
Polara Bull Dog .....	BDLM2-B/PBC-B

**Revised**

**Flash Transfer Relay**

From:	
Magnacraft .....	W21ACPX-2/W21ACPXD—5
To:	
Struthers-Dunn .....	21ACPX-2/21ACPXD-5

**Light Emitting Diodes (LED) – Regular View**

From:	
American Signal Corporation .....	ASC-0300-GA1 (Green Arrow)
American Signal Corporation .....	ASC-0300-YA1 (Yellow Arrow)
To:	
American LED Signal, Inc. ....	ASC-0300-GA1 (Green Arrow)
American LED Signal, Inc. ....	ASC-0300-YA1 (Yellow Arrow)