



# List of Approved Products

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# Chapter 1 - Water System Design

## 1.1 POTABLE AND RECLAIMED WATER PIPE MATERIALS

- A. Ductile Iron Pipe (DIP), Pressure Class 350 in accordance with MAG Section 750. Polyethylene encasement is required and shall conform to MAG Specification 610.6.
- B. PVC Pipe in accordance with City MAG Supplement Section 751.
  - 4" – 12" diameter shall conform to AWWA C900 with a 200 psi pressure rating.
  - 14" – 24" diameter shall conform to AWWA C905, with a 235 psi pressure rating.
  - PVC may only be used outside of roadway areas.
  - All pipe fittings shall be DIP in accordance with MAG Specification Section 750.
- C. Water pipe less than 4" in diameter shall be PVC schedule pipe in accordance with ASTM D1785 or D2241 with a minimum working pressure of 200 psi.

## 1.2 JOINT-RESTRAINING MATERIALS

### ***APPROVED RESTRAINED JOINTS FOR PIPE:***

- A. TR Flex Gripper Ring and TR Flex joint products with exact specifications as manufactured by US Pipe.
- B. American Fast Grip and Flex-Ring joint as manufactured by American Cast Iron Pipe Company.
- C. MEGALUG Ductile Iron Pipe Restraints as manufactured by EBAA Iron Inc.

### ***APPROVED RESTRAINED JOINTS FOR FITTINGS:***

- A. Series 1100 megalug restraint produced by EBAA Iron, Inc.
- B. Series 3000-30000S Stargrip by Star Pipe Products.
- C. Sigma DIP One Lok SLDE Series.
- D. Tyler Union Tuf Grip Restraint.

## 1.3 WATER VALVE MANUFACTURERS

- A. Clow Valve Co.
- B. Mueller Co. or products manufactured with the exact specifications i.e. all parts are interchangeable.
- C. Kennedy Valve Co.
- D. American Flow Control.

**1.4 INSERTION VALVES**

- A. PermaSeal Insertion Valve by Mueller Co. LLC.

**1.5 FIRE HYDRANTS**

- A. Mueller Centurian.
- B. Clow Medallion.
- C. Waterous Pacer.
- D. Kennedy Guardian.

**1.6 WATER METER ANGLE BALL VALVES AND CORP STOPS**

- A. Ford.
- B. Mueller.
- C. AY McDonald.
- D. Jones.

Only, no approved equals.

**1.7 WATER METER ADAPTORS**

- A. The Ford Meter Box Company, Meter Adaptors to change meter spud size and/or length.

**1.8 BACKFLOW PREVENTION ASSEMBLIES**

- A. Backflow prevention assemblies shall conform to the current list issued by the Foundation for Cross Connection Control and Hydraulic Research, University of California and/or the American Society of Safety Engineers and be UL listed or FM approved for fire protection use when used for fire protection systems.

**1.9 COMBINATION AIR/VACUUM ASSEMBLIES (POTABLE & RECLAIMED)**

***16" AND SMALLER MAINS:***

- A. A.R.I. D-040.
- B. Dorot DAV-P-2-NPT-KA.

***MAINS LARGER THAN 16":***

- A. A.R.I. D-046.
- B. Dorot DAV-MH-KA.

## Chapter 2 - Wastewater and Reclaimed System Design

### 2.1 COMPOSITE FRAMES AND COVERS

#### A. **Composite Access Products (CAP), CAP ONE.**

Frame and cover shall be H-20 traffic certified and per COC Detail C-400, including raised City logo.

### 2.2 COMPOSITE ADJUSTMENT RINGS

#### A. **Ladtech, Inc. high density polyethylene (HDPE) manufactured in accordance with ASTM D4976.**

Adjustment rings shall be interlocking, H-20 traffic certified and installed per manufacturer, and COC Detail C-401, TYPE 'B'. Use only approved adjustment rings, no shims of any kind are allowed.

### 2.3 COMPOSITE OR POLYMER CONCRETE MANHOLES

- A. **Containment Solutions, Inc. (fiberglass reinforced polyester).**
- B. **LFM Fiberglass Structures (fiberglass reinforced polyester).**
- C. **JPCI Services Inc., Sewer Shield Composites LLC (epoxy resin reinforced with fiberglass)...**
- D. **Armorock, Polymer Concrete.**

Manholes shall be stand-alone, H-20 traffic certified and installed per manufacturer, MAG and City of Chandler's specifications. Base shall be cast-in-place only using polymer concrete or concrete with approved protective coating.

### 2.4 COATING SYSTEMS

- A. **Sauereisen Sewergard Lining No. 210 as manufactured by Sauereisen Cements, Pittsburgh, PA.**
- B. **Sewer Shield 150 Epoxy Lining as manufactured by Environmental Coatings, Mesa, AZ.**
- C. **Raven 405 Epoxy Lining as manufactured by Raven Lining Systems, Tulsa, OK.**
- D. **Neopoxy NPR 5300 Series Epoxy Lining by Neopoxy International, Hayward, CA.**

The applicator of the corrosion-protective coating is required to have a minimum of three years of experience coating wastewater manholes. The City Inspector may

request written verification of said experience at any time. The applicator shall have written verification from the manufacturer of the corrosion-protective coating system that is being applied that said applicator is an approved, certified applicator of the manufacturer's products. The City Inspector may request said written documentation at any time. Application shall be done in accordance with the City of Chandler's specifications.

## **2.5 WASTEWATER MANHOLE PESTICIDE COATING SYSTEM**

### **A. Insecta Insecticide Coating.**

## **2.6 SANITARY SEWER PIPE MATERIALS**

### **A. Polyvinyl Chloride (PVC) SDR 35 in accordance with MAG Section 745.**

- Greater than 15" diameter is not allowed.
- Up to 15" diameter is allowed to depths of cover of less than 10'.

### **B. Polyvinyl Chloride (PVC) SDR 26 in accordance with MAG Section 745.**

- Greater than 15" diameter is not allowed.
- 15" diameter and smaller is allowed.

### **C. Extra-Strength Vitrified Clay Pipe (VCP) in accordance with MAG Section 743.**

## **2.7 WASTEWATER FORCE MAIN PIPE MATERIALS**

### **A. PVC Pipe in accordance with City MAG Supplement Section 751.**

- 4" – 12" diameter shall conform to AWWA C900 with a 200 psi pressure rating.
- 14" – 24" diameter shall conform to AWWA C905, with a 235 psi pressure rating.
- PVC may only be used outside of roadway areas.
- All pipe fittings shall be DIP in accordance with MAG Specification Section 750.

### **B. PVC Pressure Pipe SDR-26 in accordance with ASTM D2241. Not allowed under roadway areas.**

### **C. HDPE per Municipal Utilities Department requirements.**

## Chapter 3 - Storm Drainage System Design

### 3.1 STORM DRAIN PIPE MATERIALS

- A. **Rubber Gasket Reinforced Concrete Pipe (RGRCP) in accordance with MAG Section 735.**
- B. **Polypropylene (PP) Pipe (ADS HP Storm) in accordance with MAG Specification Section 740.**
  - At outlet conditions in City right-of-way that include a concrete headwall, the last two lengths of pipe must be RGRCP.
- C. **High Density Polyethylene (HDPE) Pipe in accordance with MAG Specification Section 738.**
  - Not allowed in public right-of-way or private streets.
  - Up to 60" diameter allowed in landscape areas and in parking lots.

### 3.2 STORM DRAIN CATCH BASINS

- A. **Catch basins within public right-of-way and private streets must be concrete with a steel grate.**
- B. **Catch basin on private property connected to a private storm drain system within landscape areas or areas subject to wheel loading may be composite or Nyloplast (or approved equal) and must be a manufactured product intended for use as a catch basin.**

## Chapter 4 - Street Design and Access Control

### 4.1 DETECTABLE SIDEWALK WARNING DEVICES

- A. **CASTinTACT Wet Set.**
- B. **TekWay Dome Tiles with anchor system.**
- C. **ADA Arcis Tactile.**

Detectable warning shall be raised truncated domes, terracotta color and contrast to pavement. Installation shall be in accordance with manufacturer's recommendations.

### 4.2 STRIPING OBLITERATION SURFACE SLURRY SEALANT

- A. **Brewer Cote Resurfacer II.**

**4.3 MEDIAN INTERLOCKING PAVING STONES**

- A. **Pavestone: City Stone II type, Old Town Blend color, and Random Ashlar pattern.**
- B. **Phoenix Paver: Standard Paver type, Tierra Norte color, and Random Ashlar Pattern.**
- C. **Belgard: Catalina type, Old Town Blend color, and Random Ashlar pattern.**
- D. **Acker-Stone Industries: Street Stone I (3"x6", 6"x6") / Street Stone II (6"x9") type, Gila River color, and Random Ashlar pattern.**

Pavers shall be 6 cm or 8 cm thickness and Random Ashlar pattern using 3"x6", 6"x6" and 6"x9" stones. When approved for use in crosswalks, min. thickness shall be 8 cm, and with Polymetric Paver Sand (or approved equal) swept between all joints.

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# Chapter 5 - Traffic Signal Design

## 5.1 APPROVED PRODUCTS/MODELS

EQUIPMENT	APPROVED PRODUCTS	MODEL NUMBER
TRAFFIC SIGNAL POLES/ARMS	<ul style="list-style-type: none"> <li>VALMONT</li> <li>AMERON</li> <li>OR APPROVED EQUAL</li> </ul>	SEE CITY OF CHANDLER STANDARD DETAILS
TRAFFIC SIGNAL CONTROLLER	<ul style="list-style-type: none"> <li>MCCAIN</li> </ul>	<ul style="list-style-type: none"> <li>ATC eX2 TS2 TYPE 1 WITH TS-2-1 TO TS2-1 CONTROLLER ADAPTER</li> </ul>
TRAFFIC SIGNAL CABINET ASSEMBLY	<ul style="list-style-type: none"> <li>EAGLE TRAFFIC CONTROL SYSTEMS</li> </ul>	<ul style="list-style-type: none"> <li>EAGLE EL712-BASE MOUNT</li> <li>EAGLE UA242 ANCHOR BOLTS</li> <li>EAGLE TF5012 LOAD BAY</li> <li>STRUTHERS-DUNN W21ACPXD-5 TRANSFER RELAY</li> <li>EDI PS-250 POWER SUPPLY</li> <li>EDI BIU-700</li> <li>EDI MMU2-16LEip CONFLICT MONITOR UNIT</li> <li>EDI MODEL 510 LOAD SWITCHES</li> <li>EDI MODEL 810 FLASHERS</li> <li>MCCAIN GPS TIME SOURCE STAND ALONE 2070 PLUG-IN (2070-7G) MODULE (GMT-7), 4-FT BNC CONNECTOR, GPS Receiver to 2070-7A, WITH POWER WIRES &amp; CABLE ASSEMBLY</li> </ul>
TRAFFIC SIGNAL MOUNTING ASSEMBLIES	<ul style="list-style-type: none"> <li>MCCAIN</li> <li>PEEK</li> </ul>	<ul style="list-style-type: none"> <li>MCCAIN VEHICLE SIGNAL MOUNT MAST ARM # M18282</li> <li>MCCAIN TYPE IV # M25677 (LEFT OF DOOR)</li> <li>MCCAIN TYPE IV # M18538 (RIGHT OF DOOR)</li> <li>MCCAIN TYPE V # M25585 (LEFT OF DOOR)</li> <li>MCCAIN TYPE V # M25586 (RIGHT OF DOOR)</li> </ul>
TRAFFIC SIGNAL HOUSINGS	<ul style="list-style-type: none"> <li>MCCAIN</li> <li>PEEK</li> </ul>	<ul style="list-style-type: none"> <li>MCCAIN 12 INCH DIAMETER TRAFFIC SIGNAL HOUSING, POLYCARBONATE, BLACK</li> <li>MCCAIN STANDARD BACKPLATE, FIVE INCH, LOUVERED, ALUMINUM, BLACK</li> <li>MCCAIN SIGNAL VISORS, ALUMINUM, TUNNEL, BLACK</li> <li>MCCAIN PEDESTRIAN HOUSING TYPE V # M30789 (LEFT OF DOOR)</li> <li>MCCAIN PEDESRTIAN HOUSING TYPE V # M30788 (RIGHT OF DOOR)</li> </ul> <p style="text-align: right;">*MUST USE ALUMINIUM HEADS FOR 4 OR 5 SECTION HEADS ON SIGNAL MASTARM.</p>



EQUIPMENT	APPROVED PRODUCTS	MODEL NUMBER
TRAFFIC SIGNAL LED LUMINAIRE	<ul style="list-style-type: none"> <li>• GE</li> <li>• COOPER</li> <li>• PHILLIPS</li> </ul>	<ul style="list-style-type: none"> <li>• 120 VOLT, MEDIUM CUTOFF</li> </ul>
LED VEHICULAR INDICATIONS	<ul style="list-style-type: none"> <li>• DIALIGHT</li> <li>• GELCORE</li> <li>• LEOTEC</li> </ul>	12-INCH LED INDICATIONS, COMPLY WITH VEHICLE TRAFFIC CONTROL SIGNAL HEAD (VTCSH) STANDARDS OF ITE.
LED PEDESTRIAN SIGNAL INDICATIONS	<ul style="list-style-type: none"> <li>• DIALIGHT</li> <li>• GELCORE</li> <li>• LEOTEC</li> </ul>	18-INCH LED COUNTDOWN INDICATIONS, COMPLY WITH PEDESTRIAN TRAFFIC CONTROL SIGNAL INDICATORS (PTCSI) STANDARDS OF ITE.
PEDESTRIAN PUSH BUTTONS	<ul style="list-style-type: none"> <li>• CAMPBELL</li> <li>• MCCAIN</li> <li>• POLARA?</li> </ul>	<ul style="list-style-type: none"> <li>• CAMPBELL FOUR HOLE 4EVR BUTTON</li> <li>• MCCAIN PUSHBUTTON PLAT # M42648</li> <li>• MCCAIN PUSHBUTTON FRAME AND COVER ASSEMBLY # M47437</li> <li>• POLARA BDL3, BULLDOG III RBDL3AX-B-2H, X NEEDS L FOR LEFT, R FOR RIGHT</li> </ul>
ACCESSIBLE PEDESTRIAN SIGNALS (APS) PEDESTRIAN PUSH BUTTONS	<ul style="list-style-type: none"> <li>• CAMPBELL</li> </ul>	GUARDIAN 5.0 FS 912 WITH BLUETOOTH MODULE (501-0650)
VIDEO DETECTION SYSTEM	<ul style="list-style-type: none"> <li>• FLIR</li> </ul>	<ul style="list-style-type: none"> <li>• FLIR TRAFISENSE DUAL 2 (ONE PER APPROACH)</li> <li>• TI BPL2 EDGE BIU&amp;SIU INTERFACES (TWO PER TRAFFIC SIGNAL CABINET)</li> <li>• SDR-240-48 MEAN WELL POWER SUPPLY, &amp; CABLES. (ONE POWER SUPPLY FOR FOUR SENSORS MAX)</li> <li>• ONE 10" STEEL DIN RAIL AND TWO UNISTRUT CLIPS WITH SCREWS (PER POWER SUPPLY)</li> <li>• PHOENIX CONTACT GROUND TERMINAL BLOCK MFR # 3044092 (ONE PER CAMERA)</li> <li>• PHOENIX CONTACT WHITE TERMINAL BLOCK MFR # 3045075 (ONE PER CAMERA)</li> <li>• PHOENIX CONTACT BLACK TERMINAL BLOCK MFR # 3045088 (ONE PER CAMERA)</li> <li>• ALTECH CORP FUSEBLOCK MFR # CF4U (ONE PER POWER SUPPLY)</li> <li>• LITTELFUSE SLOW BLOW 3.15A 5X20MM GLASS CARTRIDGE 250VAC MFR 02183.15HXP (ONE PER FUSEBLOCK)</li> <li>• PELCO ASTRO-BRAC PRODUCT # AG-0169-74-96-PNC (ONE PER APPROACH THAT IS UNABLE TO MOUNT ON LUMINAIRE ARM OF SIGNAL)</li> </ul>

EQUIPMENT	APPROVED PRODUCTS	MODEL NUMBER
<b>CCTV SYSTEM</b>	<ul style="list-style-type: none"> <li>• AXIS</li> </ul>	<ul style="list-style-type: none"> <li>• P5655-E</li> <li>• T91L61 MOUNT</li> <li>• T8134 60W MIDSPAN POE</li> <li>• BELDEN 7929A CAT5E CABLE</li> <li>• SHIELDED EZ-RJ45 CONNECTOR ON BOTH ENDS</li> </ul>
<b>GATOR PATCH CABLE</b>	<ul style="list-style-type: none"> <li>• FIBER CONNECTIONS INC.</li> </ul>	<ul style="list-style-type: none"> <li>• G220J012LNB-##-0, ## LENGTH DETERMINED BY FIELD MEASUREMENT FROM THE NEAREST SPLICE LOCATION TO THE CABINET.</li> <li>• ADD 50 FEET OF SLACK LOOP IN EACH #7 EXTENTION PULL BOX</li> <li>• ADD 100 FEET OF SLACK LOOP IN EACH #9 VAULT</li> </ul>
<b>FIBER &amp; WIRELESS NETWORK SWITCH</b>	<ul style="list-style-type: none"> <li>• ETHERWAN</li> </ul>	<ul style="list-style-type: none"> <li>• FIBER SWITCH: EX78934E-0VB</li> <li>• EPOW-54-600 600W (ONE PER EX78934E-0VB SWITCH)</li> <li>• SFP TRANSCEIVERS EX-1250TSP-MB5L-AS (FOUR PER TRAFFIC SIGNAL CABINET)</li> <li>• FOUR FOOT CAT6 BOOTED COMMERCIALY PRODUCED CABLES (SEVEN PER TRAFFIC SIGNAL CABINET)</li> </ul>
<b>FIBER PATCH COORDS</b>	<ul style="list-style-type: none"> <li>• COMMERCIALY PRODUCED OS2 9/125µm SINGLE MODE FIBER PATCH CABLE, 3 METERS LONG, <b>LC/UPC - SC/UPC DUPLEX</b>, IL: ≤0.3dB, RL: ≥50dB, 1310/1550nm, 2.0mm CABLE DIAMETER. (TWO PER TRAFFIC SIGNAL CABINET, DEPENDANT ON CONNECTION TYPE IN CABINET.)</li> <li>• COMMERCIALY PRODUCED OS2 9/125µm SINGLE MODE FIBER PATCH CABLE, 3 METERS LONG, <b>LC/UPC - ST/UPC DUPLEX</b>, IL: ≤0.3dB, RL: ≥50dB, 1310/1550nm, 2.0mm CABLE DIAMETER. (TWO PER TRAFFIC SIGNAL CABINET, DEPENDANT ON CONNECTION TYPE IN CABINET.)</li> <li>• COMMERCIALY PRODUCED OS2 9/125µm SINGLE MODE FIBER PATCH CABLE, 3 METERS LONG, <b>LC/UPC - LC/UPC DUPLEX</b>, IL: ≤0.3dB, RL: ≥50dB, 1310/1550nm, 2.0mm CABLE DIAMETER. (TWO PER TRAFFIC SIGNAL CABINET, DEPENDANT ON CONNECTION TYPE IN CABINET.)</li> </ul>	
<b>TWISTED PAIR NETWORK SWITCH</b>	<ul style="list-style-type: none"> <li>• ETHERWAN</li> </ul>	<ul style="list-style-type: none"> <li>• TWISTED PAIR SWITCH: ED3575-622</li> <li>• TWISTED PAIR SWITCH POWER SUPPLY: EX41-145046-1 (ONE PER SWITCH)</li> <li>• FOUR FOOT CAT6 BOOTED COMMERCIALY PRODUCED CABLES (SEVEN PER TRAFFIC SIGNAL CABINET)</li> </ul>

EQUIPMENT	APPROVED PRODUCTS	MODEL NUMBER
<b>ARID DEVICES (ONE EACH PER CABINET)</b>	<ul style="list-style-type: none"> <li>ITERIS</li> </ul>	<ul style="list-style-type: none"> <li>ITERIS VELOCITY ARID TS2 RACK MOUNT PRODUCT # VELOCITY-RM</li> <li>ITERIS VELOCITY ARID BLUETOOTH PRODUCT # VEL-ADAPTER-BT</li> <li>ITERIS VELOCITY ARID WIFI PRODUCT # VEL-ADAPTER-WIFI</li> <li>ITERIS VELOCITY ARID ANTENNA PRODUCT # VEL-ANT-NO-BKT</li> </ul>
<b>METER PEDESTAL</b>	<ul style="list-style-type: none"> <li>MYERS</li> <li>TESCO</li> </ul>	
<b>ILLUMINATED STREET NAME SIGNS</b>		<ul style="list-style-type: none"> <li>LED?</li> </ul>
<b>PREEMPTION SYSTEM</b>	<ul style="list-style-type: none"> <li>OPTICOM</li> </ul>	<ul style="list-style-type: none"> <li>721 (ONE PER APPROACH)</li> <li>762 PHASE SELECTOR (TWO PER TRAFFIC SIGNAL CABINET)</li> <li>OPTICOM 138 DETECTOR CABLE</li> </ul>
<b>FIBER OPTIC BACKBONE CABLE</b>	<ul style="list-style-type: none"> <li>CORNING OR APPROVED EQUAL</li> </ul>	<ul style="list-style-type: none"> <li>CORNING 144ER4-T3122A20</li> </ul>
<b>SPLICE CLOSURE</b>	<ul style="list-style-type: none"> <li>COMMSCOPE</li> </ul>	<ul style="list-style-type: none"> <li>FOSC 450-D6</li> </ul>
<b>WIRELESS RADIO UNITS</b>	<ul style="list-style-type: none"> <li>ENCOM</li> </ul>	<ul style="list-style-type: none"> <li>E-LITE PRODUCT # E LITE 5.8 INT (MUST INCLUDE TWO RADIOS WITH TWO POE)</li> <li>BELDEN 7929A CAT5E CABLE (IF NOT USING MANUFACTURER'S CABLE)</li> <li>SHIELDED EZ-RJ45 CONNECTOR ON BOTH ENDS (IF NOT USING MANUFACTURER'S CABLE)</li> <li>FOUR FOOT CAT6 BOOTED COMMERCIALY PRODUCED CABLES (ONE PER TRAFFIC SIGNAL CABINET)</li> </ul>
<b>SCHOOL FLASHER (STAND ALONE POLE MOUNTED)</b>	<ul style="list-style-type: none"> <li>TAPCO</li> </ul>	<ul style="list-style-type: none"> <li>TAPCO 500039, SOLAR CHARGER CONTROLLER (ONE EACH)</li> <li>TAPCO 2180-BRKT-R, CABINET BRACKET (ONE EACH)</li> <li>TAPCO SLR-55-B, 55W/12V SOLAR PANNEL, TOP OF POLE MOUNT (ONE EACH)</li> <li>TAPCO 101494 BATTERY, DEKA 12V SOLAR BATTERY (ONE EACH)</li> <li>TAPCO 2180-BBSAY-LU, AMBER BLINKER BEACON SINGLE ASSEMBLY (TWO EACH)</li> <li>TAPCO 2180-TIMECLOCK (ONE EACH)</li> <li>TAPCO 2180-20002, CIRCUIT PROGRAMMING KIT (ONE EACH)</li> </ul>

EQUIPMENT	APPROVED PRODUCTS	MODEL NUMBER
		<ul style="list-style-type: none"> <li>• TAPCO 109482, ALUMINUM SQUARE COLLAR BASE (ONE EACH)</li> <li>• TAPCO 101920-18, POLE PACKAGE (ONE PER POLE)</li> </ul>
<b>SCHOOL FLASHER (STREETLIGHT MOUNTED)</b>	<ul style="list-style-type: none"> <li>• TAPCO</li> </ul>	<ul style="list-style-type: none"> <li>• TAPCO 500039, SOLAR CHARGER CONTROLLER (ONE EACH)</li> <li>• TAPCO 2180-BRKT-R, CABINET BRACKET (ONE EACH)</li> <li>• TAPCO SLR-55-A, 55W/12V SOLAR PANNEL, SIDE OF POLE MOUNT (ONE EACH)</li> <li>• TAPCO 101494 BATTERY, DEKA 12V SOLAR BATTERY (ONE EACH)</li> <li>• TAPCO 2180-BBSAY-LU, AMBER BLINKER BEACON SINGLE ASSEMBLY (TWO EACH)</li> <li>• TAPCO 2180-TIMECLOCK (ONE EACH)</li> <li>• TAPCO 2180-20002, CIRCUIT PROGRAMMING KIT (ONE EACH)</li> </ul>

## Chapter 6 - Streetlight Design

### 6.1 APPROVED PRODUCTS

EQUIPMENT	APPROVED PRODUCTS
<b>LUMINAIRE</b>	<ul style="list-style-type: none"> <li>• GE EVOLVE</li> <li>• PHILLIPS ROADFOCUS</li> <li>• COOPER NAVION</li> </ul>
<b>LED PHOTOCELLS</b>	<ul style="list-style-type: none"> <li>• SELC #8483</li> <li>• RIPLEY #6390</li> <li>• FISHER PIERCE TRS SERIES</li> </ul>
<b>HPS PHOTOCELLS</b>	<p><b>ELECTROMECHANICAL:</b></p> <ul style="list-style-type: none"> <li>• FISHER PIERCE NO. 7760 (120V)</li> <li>• GENERAL ELECTRIC NO. C402G600 (120V)</li> <li>• AMERICAN ELECTRIC 8060-4F (120V)</li> <li>• FISHER PIERCE NO. 7770 (240V)</li> <li>• GENERAL ELECTRIC NO. C402G660 (240V)</li> <li>• PRECISION MULTIPLE CONTROLS NO. 8690 (105-280V)</li> </ul> <p><b>ELECTRONIC:</b></p> <ul style="list-style-type: none"> <li>• FISHER PIERCE NO. 7571B (120V)</li> <li>• FISHER PIERCE NO. 7572B (240V)</li> <li>• PRECISION MULTIPLE CONTROLS NO. EC-120 (120-277V)</li> <li>• TORK NO. 5227 (120V)</li> </ul>

EQUIPMENT	APPROVED PRODUCTS
<b>POLES SL-1, SL-6, SL-8, SL-16 AND SL-17</b>	<ul style="list-style-type: none"> <li>• CEM-TEC CORPORATION</li> <li>• AMERON</li> <li>• SOUTHWEST FABRICATION</li> </ul>
<b>PAINT</b>	<p><b>A. POLE SL-16; COLOR: VALSPAR V40-07 DARK BRONZE OR EQUIVALENT</b></p> <ul style="list-style-type: none"> <li>• SHERWIN WILLIAMS (POLYURETHANE ENAMEL)</li> <li>• PITTSBURGH PAINT (PITTHANE-ACRYLIC URETHANE ENAMEL)</li> <li>• VAL SPAR PAINT (HIGH SOLID -URETHANE, 40 SERIES OR GREATER)</li> </ul> <p><b>B. POLE SL-1 (FOR MAINTENANCE PURPOSES ON EXISTING POLES)</b></p> <ul style="list-style-type: none"> <li>• COLOR: SILVER COLOR TO MATCH GALVANIZED POLES.</li> </ul>
<b>CONDUIT</b>	<ul style="list-style-type: none"> <li>• CARLON</li> <li>• FINN INDUSTRIES, INC.</li> </ul>

## **Chapter 7 - Traffic Barricade Design**

No approved products for this chapter.

## **Chapter 8 - Landscape Design of City Owned R.O.W. and Retention Basins**

No approved products for this chapter.

## **Chapter 9 - Survey and Vertical Control Benchmarks**

No approved products for this chapter.