

City of Goodyear Traffic Signals, ITS & Lighting Approved Products List (Revised
06/2024)

CABINET AND CONTROLLER ASSEMBLY:

- . EAGLE MOBOTREX CABINET – DRAWING TF5116TGY01
- . ECONOLITE COBALT CONTROLLER
- . EDI MMU2 16LEIP
- . EDI BIU 700 (2)
- . PS-250 NEMA TS-2 POWER SUPPLY
- . DETECTOR RACK
- . SHELF
- . WORK LIGHT
- . LOAD SWITCHES (16)
- . FLASH TRANSFER RELAYS (4)
- . ITERIS BLUETOAD SPECTRA CV TRAVEL TIME HARDWARE WITH MOUNTING BRACKET
- . GTT 764 SELECTOR, 721 OPTICAL DETECTORS AND M138 OPTICOM CABLE
 - o USING PELCO AB-0163-XX-SS-PNC MOUNT FOR ADOT STRUCTURES

TRAFFIC SIGNAL WIRING:

- . EACH TRAFFIC SIGNAL STRUCTURE SHALL HAVE A SINGLE IMSA 19-1, 20 CONDUCTOR, 14 AWG SOLID CORE COPPER CABLE UNSPLICED FROM THE TRAFFIC SIGNAL CABINET TO TRAFFIC SIGNAL STRUCTURE TERMINAL BLOCK.
- . IMSA 19-1, 4 OR 7 CONDUCTOR, 14 AWG SOLID CORE COPPER SHALL BE USED FROM THE TERMINAL BLOCK TO THE SIGNAL HEADS.
- . PEDESTRIAN PUSH BUTTONS SHALL BE WIRED WITH IMSA 50-2, 2 CONDUCTOR, SHIELDED 14 AWG TINNED COPPER CABLE UNSPLICED FROM THE TRAFFIC SIGNAL CABINET TO THE PUSH BUTTON
- . LUMINAIRES AND INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS) SHALL USE IMSA 19-1, 4 CONDUCTOR, 14 AWG STRANDED COPPER CABLE FROM THE METER PEDESTAL TO THE PULL BOXES. LUMINAIRES SHALL USE INDIVIDUAL IMSA 19-1, 2 CONDUCTOR CABLE, 14 AWG STRANDED COPPER CABLE FROM THE PULL BOX TO THE FIXTURE. IISNS SHALL USE IMSA 19-1, 3 CONDUCTOR, 14 AWG STRANDED COPPER CABLE FROM THE PULL BOX TO THE FIXTURE.
- . TRAFFIC SIGNAL SERVICE WIRE SHALL BE 6 AWG STRANDED COPPER, THW OR THW2.
- . TRAFFIC SIGNAL CABINET UFER WIRE SHALL BE 6 AWG STRANDED COPPER, THW OR THW2
- . INSULATED GREEN BOND WIRE SHALL BE 8 AWG STRANDED COPPER, THW OR THW2. REQUIRED IN ALL CONDUITS.
- . 3/4 INCH x 10 FOOT COPPER CLADDED GROUND ROD
- . ALL COPPER COMMUNICATION CABLE SHALL BE BELDEN 7919A (CCTV/BLUETOAD/BATTERY BACKUP)

VEHICLE & PEDESTRIAN HEADS:

- . EAGLE POLYCARBONATE SA TYPE SIGNAL HEADS, GLOSS BLACK
 - . SA105B1001BBB - 5 SECTION Q HEAD W/ 6 PELCO SE-0670-1S-ZN1 NUTS
 - . SA104B1001BBB - 4 SECTION G HEAD W/ 6 PELCO SE-0670-1S-ZN1 NUTS
 - . SA103B1001BBB - 3 SECTION F/R HEAD W/6 PELCO SE-0670-1S-ZN1 NUTS
 - . SA102B1001BBB - 2 SECTION E HEAD W/6 PELCO SE-0670-1S-ZN1 NUTS
- . EAGLE POLYCARBONATE SA TYPE SIGNAL HEADS, GLOSS BLACK (ADOT TYPE POLES)
 - . SA105B2001BBB - 5 SECTION Q HEAD WITH LOUVERED BACKPLATE
 - . SA104B1001BBB - 4 SECTION G HEAD WITH LOUVERED BACKPLATE
 - . SA103B2001BBB - 3 SECTION F/R HEAD WITH LOUVERED BACKPLATE
- . EAGLE ALUMINUM 16 INCH PEDESTRIAN SIGNAL, GLOSS BLACK

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LED MODULES:

- 12" GTX CITY ELA FULL BALL (CLEAR)
 - DR6-RCFB-ELA RED LED MODULE
 - DR6-YCFB-ELA YELLOW LED MODULE
 - DR6-GCFB-ELA GREEN LED MODULE
- 12" GTX CITY ELA ARROW (CLEAR)
 - DR6-RCAAN-ELA RED ARROW LED MODULE
 - DR6-YCAAN-ELA YELLOW ARROW LED MODULE
 - DR6-GCAAN-ELA GREEN ARROW LED MODULE
- PS7-CFF1-VLA-12"X18" GT1 LED COUNTDOWN PED MODULE

PEDESTRIAN PUSHBUTTONS:

- POLARA BDLM2-B WITH SIGN R10-3E

UPS SYSTEM AND METER PEDESTAL:

- MILBANK CP3G11115B22AWSP4 CABINET
 - ALPHA FXM1100HP BATTERY BACKUP WITH RJ45 ETHERNET PORT
 - ALPHA POWER TRANSFER SWITCH
 - ALPHA REMOTE BATTERY MANAGEMENT SYSTEM
 - PEC AND LIGHTING CONTRACTOR
 - (4) ALPHA 195GXL BATTERIES

ILLUMINATED STREET NAME SIGN:

- FLUORESCO 3M HIGH INTENSITY SHEETING WITH 3M ANTI-GRAFFITI FILM
- GE STRIP LED ILLUMINATED

MODULAR SIGNAL STRUCTURES:

- TA CAID - IN CONFORMANCE WITH CURRENT CITY OF GOODYEAR STANDARD DETAILS & SPECIFICATIONS MADE OF CERTIFIED ASTM MATERIALS

ADOT STYLE SIGNAL STRUCTURES:

- PER ADOT APPROVED PRODUCTS LIST, POWDERCOATED BROWN IN COLOR MADE OF CERTIFIED ASTM MATERIALS
- ALL MAST ARM POLES SHALL USE VALMONT MITIGATOR TR1 VIBRATION DAMPER – NO EXCEPTIONS

LUMINAIRE – TRAFFIC SIGNAL POLE MOUNTED:

- GE EVOLVE LUMINAIRE ERL2016D540DDKBZGLR 7-PIN WITH SHORTING CAP

VEHICLE DETECTION SYSTEMS (BOTH ARE REQUIRED):

- AUTOSCOPE VISION
 - A-700 CAMERAS
 - COMM MANAGER AVCM
- ECONOLITE EVO RADAR
 - (4) EVO RADAR SENSORS WITH CABLES
 - EVO RADAR HUB ASSEMBLY
- MAST ARM BRACKETS FOR VIDEO DETECTION:
 - MODULAR POLES:
 - (4) SH-0514 CAMERA MOUNT BRACKET
 - (4) AB-2007-74 GUSSETED TUBE WITH VINYL INSERT, 1.5" NPS TUBE ALUMINUM – 74" LONG
 - (4) SE-0415 FLAT BACK STRUCTURE MOUNT
 - ADOT TYPE POLES: (4) AS-0654-74-PNC 6' MAST ARM RISER, BRACKET AND CAMERA MOUNT

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FIELD HARDENED ETHERNET SWITCH:

- RUGGEDCOM MODEL RST-916P FIELD HARDENED ETHERNET SWITCH WITH EXTERNAL POWER SUPPLY:
 - DIN RAIL MOUNT
 - (2) 10 GB SMFO SFP, 10 KM

DOME CAMERA:

- AXIS Q6075-E, PART NUMBER 01752-004 PTZ CAMERA
 - TQ6810 SMOKED DOME
 - T91G61 MOUNTING ARM
- MODULAR POLES: T91A64 CORNER BRACKET
- ADOT TYPE ROUND POLES: T91B57 POLE MOUNT BRACKET BANDED TO POLE

FIBER OPTIC CABLE:

- TERMINATION PANELS:
 - 12 PORT CORNING SPH-01P WALL MOUNT ENCLOSURE WITH 12 SC UPC SMFO CONNECTORS (CCH-CP12-59) AND 12 SMFO FIBER PIGTAIL (CCH-CP12-59P03RH)
- CORNING ALTOS LOOSE TUBE 12 STRAND SMFO CABLE (012EU4-T4100D20) FOR CABINET CONNECTIVITY OR APPROVED EQUAL
- CORNING ALTOS LOOSE TUBE 144 STRAND SMFO CABLE (144EU4-T4100D20) FOR FIBER BACKBONE CABLE OR APPROVED EQUAL

PULL BOXES:

- TRAFFIC SIGNAL #7 PULL BOX:
 - OLDCASTLE FIBRELYTE FL36 BOX, 20" DEEP BOX
 - BOLT DOWN LID MARKED (COG TRAFFIC SIGNAL)
- FIBER OPTIC:
 - #7 PULL BOX
 - OLDCASTLE FIBRELYTE FL36 BOX, 20" DEEP BOX WITH 8" EXTENSION
 - BOLT DOWN LID MARKED (COG FIBER OPTIC)
 - OLDCASTLE PRECAST #9 PULL BOX (STANDARD)
 - 4 FOOT X 4 FOOT X 4 FOOT-2 INCH REINFORCED CONCRETE BOX
 - 12 – 3 INCH TERM-A-DUCTS PER SIDE, 48 TOTAL
 - WITH PULLING IRONS
 - SHALL BE FURNISHED WITH RACKS AND HOOKS INSTALLED
 - SHALL BE A TORSION ASSIST FRAME AND COVER WITH PADLOCK HASP
 - COVER AND PADLOCK HASP DOORS SHALL BE LATCHING
 - COVER SHALL BE MARKED "COG FIBER OPTIC)
 - OLDCASTLE PRECAST #9 PULL BOX (SPLIT)
 - 4 FOOT X 4 FOOT X 4 FOOT-2 INCH REINFORCED CONCRETE BOX
 - 12 INCH X 34 INCH SLOTS ON TWO SIDES, 18" X 18" KNOCKOUTS ON OTHER TWO SIDES
 - WITH PULLING IRONS
 - SHALL BE FURNISHED WITH RACKS AND HOOKS INSTALLED
 - SHALL BE A TORSION ASSIST FRAME AND COVER WITH PADLOCK HASP
 - COVER AND PADLOCK HASP DOORS SHALL BE LATCHING
 - COVER SHALL BE MARKED "COG FIBER OPTIC)

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TRAFFIC SIGNAL & FIBER OPTIC CONDUITS:

- ALL TRAFFIC SIGNAL CONDUITS SHALL USE NO LESS THAN 24 INCH RADIUS SWEEPS. NO EXCEPTIONS
- ALL FIBER OPTIC/INTERCONNECT CONDUITS SHALL USE NO LESS THAN 36 INCH RADIUS SWEEPS. NO EXCEPTIONS.
- SHALL BE SCHEDULE 40 PVC OR SDR11 HDPE
- DURALINE DOUBLE E-LOC (PART NUMBER 20005106) COUPLERS FOR TWO INCH HDPE
- DURALINE E-LOC (PART NUMBER 20001502) COUPLERS FOR THREE INCH HDPE
- COUPLERS FOR HDPE TO PVC CONDUITS MUST BE SUBMITTED FOR APPROVAL

STREET LIGHTING:

- ALL 120V LIGHTING SHALL USE 2-CONDUCTOR, 12 AWG UNDERGROUND FEEDER WIRE (UF)
- ALL 240V LIGHTING SHALL USE 3-CONDUCTOR, 12 AWG UNDERGROUND FEEDER WIRE (UF)
- ALL STREET LIGHTING SHALL USE COOPER BUSSMANN HEB-AA FUSE HOLDERS
- ALL FUSES SHALL BE COOPER BUSSMANN KTK-10 FAST ACTING FUSES
- LOCAL STREETS SHALL USE GE EVOLVE FIXTURE ERL1005B530EDKBZGLR
 - POLES LOCATED ON CUL-DE-SACS AND TURNS SHALL USE GE EVOLVE FIXTURE ERL1005D530EDKBZGLR
- COLLECTOR STREETS SHALL USE GE EVOLVE FIXTURE ERL1008B530EDKBZGLR
- ARTERIAL STREETS SHALL USE GE EVOLVE FIXTURE ERL1011B530EDKBZGLR