

DATE	
MADE BY	
DESCRIPTION OF REVISIONS	
NO	3 4
DATE	03/10
MADE BY	C. COLE
DESCRIPTION OF REVISIONS	
NO	1 2
2010 EDITION	

NOTES:

- All materials and construction shall conform to the requirements of the Specifications.
- The cabinets shall be furnished so they are completely pre-wired and pre-paneled with all plug-in components, including the controller and conflict monitor, unless specified otherwise.
- The cabinet housing, doors, channels, shelves and panels shall be unpainted 5052-H32, 0.125 thick aluminum unless otherwise specified or approved. It is allowable for the outside of the cabinet to have a milled finish and be coated with an appropriate coating. All cabinet sides shall be continuously welded.
- The basic outdoor weathering rating for the cabinet shall exceed NEMA 3R rating.
- For the size and position of the anchor bolts see T.S. 2-4 Series Drawings. The required size and position shall be verified by the contractor prior to foundation construction.
- Cabinets supplied shall be pre-approved by the Department.
- The exact configuration of the cabinet may vary slightly from what is shown if approved by the Department.
- The Photo Electric Cell with basket guard wiring and internal components should only be provided if lighting controls are not provided per the meter pedestal or load center cabinet providing the electrical service for that cabinet.
- The main door shall include a reinforcing panel at or near the middle of the door. The door reinforcing panel may be spot welded at regular intervals to the door and should extend around 2/3rds the width of the door. The door locking mechanism may be mounted on this panel or on its separate metal platform.
- All cabinet main and rear doors shall use a three point locking device with heavy gauge cam. The latch and locking arms shall engage the door frame at the bottom, middle, and top so that a secure and durable seal is achieved. The door handle shall rotate inward to the middle of the door to disengage the locking mechanism. The door handle shall have a hasp or latch that enables the cabinet to be padlocked. Locks shall be secured to the door via four bolts. All doors shall be easy to close and open and shall nest tightly with their gaskets to form a weatherproof and dust-tight seal between the frame and door. The locks and keys shall per the Department requirements.
- All cabinet main doors shall be provided with a lift stop-and-catch doorstop that is mounted at the bottom. The front doorstop or catch, as a minimum, shall have stop-and-catch positions that are capable of holding the door open for at least three positions (e.g. 90, 125 and 180 degrees +/- 15 degrees). The doorstop shall be easy to disengage so that the door can be re-positioned or closed. The stop shall be designed so it can keep the door open and secure even under windy conditions. On dual door cabinets the doorstop for the rear door can be different than the doorstop for the front door.
- A separate police panel shall be provided as shown. The police panel shall conform to the applicable requirements of NEMA TS2 7.5.7 Police Compartment. A dead-front test switch panel on the inside of the cabinet door behind the police panel shall be provided.
- Door hinge pins, nuts, washers and other applicable hardware shall be stainless steel.
- Each cabinet shall be supplied with a set of hoisting plates. The plates shall be bolted at the top of each side of the cabinet. The hoisting plate shall be of sufficient strength to support the full weight of the cabinet when suspended without sagging or bending.
- The top of the aluminum door-frame shall have a drip channel that is internal. This drip channel shall be continuously metal (e.g. welded) so that it will redirect any water that drips down from the front face of the cabinet to the sides. Rear doors, if applicable, shall have a similar treatment.
- There shall be a plan holder or pocket on an open area on the inside of the front cabinet door. The pocket size shall be a minimum of 12 inches wide by 3 inches deep by 8 inches high.
- Each cabinet shall be furnished with two adjustable shelves. The default position for the top shelf is 11 inches from the inside of the roof with the next shelf 10 inches below. The shelves shall have bent front and side edges (the back of the shelf can also have this feature at the option of the manufacturer) that provide the shelf additional structural strength and a means to secure equipment and/or cabling to the shelf.
- All shelves and racks shall be capable of supporting controllers and other components without falling, bending, sagging, or misalignment. Shelves and racks shall be bolted or screwed so they are securely placed in the cabinet so they will not fall or misalign.
- The cabinets shall have adjustable shelf, panel and component mounting "C-channels." There shall be a minimum of three or more per side for Types IV and V cabinets. The channels shall extend from near the bottom to the top of the cabinets. The channels shall extend all the way to the top and bottom if the cabinet has a back door.
- On the inside of the doors of all cabinets there shall be a permanent sticker that shall state the following: "Warning: Do not operate controller without conflict monitor (or malfunction management unit) as conflicting signals will not be detected. Other warning labels can be added if the supplier or manufacturer believes it is appropriate (e.g. "Danger 120 volts AC"). The exact wording on these warning labels can vary; however, the intent shall be the same.
- Use an approved silicon sealer RTV type grey or clear to seal between the cabinet, the foundation, extension (if applicable) and other openings.
- Once the traffic signal has been tested all conduit entries into the traffic signal control cabinet shall be sealed with a pliable and removable duct seal that is formed around all conductors and cables.

NOT TO SCALE

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS	REVISION 03/10
SIGNATURE		DRAWING NO. T.S. 3-9
APPROVED FOR DISTRIBUTION	ON FILE	SHEET NO. 1 OF 3
	TYPE IV AND V CONTROL CABINET NOTES	