

6390303 ELECTRICAL POWER SERVICE ASSEMBLIES
INTERNAL/INDUSTRY REVIEW COMMENTS

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Comments: (9-15-16)

Consider adding requirements to cover other work that require Electrical Service. ITS, Architectural, certain Signing, Cathodic Protection, etc. Suggest adding some standard language where possible if possible like for ITS that includes the clause "unless otherwise shown in the plans". Please include language "For other service points" that includes minimum requirements if possible or refers to Industry Standards or the plans.

Response: Section 639-1 already covers ITS and other roadway applications. Adding language to 639-3.3 for doesn't add to the Specification unless we know specifically what conductor material they use.
No changes made.

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Comments: (9-26-16)

1. Revise 1st sentence to the following below there has been problems with the size in the spec not being adequately sized and contractors arguing the 6 AWG overrides the actual needed wire size:

→ ~~639-3.3 Electrical Service Wire: For signal and ITS service points, Use No. 6 AWG the Engineer shall calculate the appropriate~~ stranded copper wire ~~size~~ with XHHW (cross-linked polyethylene (XLPE) high heat-resistant, water-resistant) insulation, rated at 600V in dry and wet condition for connections between service disconnect and traffic cabinet, ~~unless otherwise shown in the Plans.~~

Response: The load for signal applications is minimal and Engineers are not required to do a load analysis. The No. 6 is more than sufficient for anything needed at a signalized intersection.
No change made.

2. Revise 639-3.5.2 to match 639-3.3: 639-3.5.2 Circuit Breaker: Use a manually resettable circuit breaker which has a current rating above the current rating of the circuit breaker to which electrical power is provided. Do not use more than 70A circuit breaker. For traffic signal or ITS service, Engineer shall calculate appropriate circuit breaker size per the NEC requirements.

Response: Not included in proposed revisions.
No change made.

3. Revise 639-4.6 to add the distance requirement- 639-4.6 Service Disconnect: Securely fasten the service disconnect to the pole (or cabinet with the Engineers approval), and electrically

position the service disconnect between the service meter and the traffic control device cabinet to which electrical service is being supplied, if distance is greater than 300 ft, a service disconnect shall be required in both sides (service meter and cabinet).

Response: Not included in proposed revisions.

No change made.
