Procurement Specification for Physical Security of ITS Field Enclosures

Project Overview

Many transportation agencies have experienced theft, vandalism, or other security breaches to intelligent transportation systems (ITS) field equipment. These situations often require costly equipment repairs and can result in significant disruption to operations. Some agencies have implemented physical security stategies for ITS field cabinets, shelters, and boxes such as:

- Changing out universal keys
- Electronic lock systems
- Burying or high mounting boxes

This ENTERPRISE Pooled Fund Study research project is documenting best practices for protecting ITS field enclosures from vandalism and security breaches. The focus of this effort is physical security of enclosures for ITS field equipment such as cabinets, shelters, and boxes.

The research team is gathering practices through review of published resources and interviews with transportation agencies. The project will then prepare a checklist of procedures and steps that transportation agencies can take to implement the best practices. Finally, one or more "model" performance specifications will be developed for use and adaptation by agencies for their specific needs.

Boxes / Vault
Photos Source: Mississippi DOT ITS Design Manual [1]

Share Your Agency's Experiences

ENTERPRISE needs your help!

ENTERPRISE is seeking agencies to participate in interviews to share practices for physical security ITS field cabinets, shelters, and boxes.

- What physical security practices does your agency use for ITS field cabinets, shelters, and boxes?
- Which approaches have been effective? Are these approaches cost effective? Feasible to implement?
- Do you have specifications for physical security strategies? What provisions would you suggest for specifications?

To participate in this research, contact:

- Liz Lloyd-Weis, Wisconsin DOT (elizabeth.lloydweis@dot.wi.gov)
- Linda Preisen, Athey Creek Consultants (preisen@acconsultants.org)

ITS Field Cabinet
Photo Source: Athey Creek Consultants

Shelter / Hut
Photo Source: Mississippi DOT ITS Design Manual [1]

[1] Mississippi DOT ITS Design Manual (2019): https://mdot.ms.gov/documents/Traffic%20Engineering/Manuals/MDOT%20ITS%20Design%20Manual.pdf