

ALABAMA DEPARTMENT OF TRANSPORTATION

General Application Special Provision

DATE: March 26, 2026

GASP No. 26-GA0008

EFFECTIVE DATE: **TBD**

SUBJECT: Removal and Relocation of Intelligent Transportation Systems

Alabama Standard Specifications, 2026 Edition, are hereby amended to add a New SECTION 734 as follows:

SECTION 734 REMOVAL AND RELOCATION OF INTELLIGENT TRANSPORTATION SYSTEMS

734.01 Description.

The work under this Section shall cover the work of decommissioning, removal (wholly or in part), the satisfactory salvaging or disposal of, or the relocation of Intelligent Transportation Systems (ITS) infrastructure and/or equipment as designated on the plans or in the proposal. Salvaging of materials for reuse by the State will be required only when such is designated by the plans or proposal; otherwise, the materials shall become the property of the Contractor.

Quantities and limits of this type of work indicated on the plans are approximate only, subject to the Engineer's evaluation of the actual site condition.

734.02 Materials.

All new ITS materials required shall meet the applicable requirements of Section 729 and Section 893. All other new materials required shall meet the applicable requirements of Division 800, Materials.

(a) Wood Pole (Service Pole).

Wood Pole (Service Pole), required for relocation of electrical power service or aerial cable installation, shall be in accordance with these Specifications, Plans, National Electrical Code (NEC) requirements, National Electrical Safety Code (NESC) requirements, and local utility codes. The wood pole installation shall include guy wire(s), grounding system, and riser in accordance with Articles **893.10** and **893.12**.

734.03 Construction Requirements.

(a) Laws, Rules, Regulations and Ordinances.

The Contractor shall comply with all Federal, State, City, and County laws, rules, regulations, and ordinances covering moving, re-establishing, demolition, or disposal of ITS infrastructure, structures, and/or equipment, materials, and appurtenances.

Any utility service requiring disconnection or reconnection shall be done in accordance with: current local codes and practices of the type utility involved; the utility's regulations; and, shall meet the approval of the Utility.

(b) Fiber Optic Technician Qualifications.

For fiber optic infrastructure work, a qualified Fiber Optic Technician shall oversee said work. The Fiber Optic Technician shall be approved in accordance with Item 729.03(b)1 prior to commencing work.

(c) Removal of ITS Infrastructure and/or Equipment.

1. GENERAL.

Removal of ITS Infrastructure and/or Equipment shall consist of the demolition and disposal of the materials and associated equipment identified in the contract. It shall also include the restoration of the area of removal to a stable, uniformly graded ground surface.

Use of methods or equipment, which might damage existing, completed or retained infrastructure, or portions thereof, shall not be permitted.

Removal of brush, trees, fencing, and other obstructions within the right-of-way shall comply with Section 201 and shall be paid for separately under that section unless otherwise shown on the plans. When clearing and grubbing is not a part of the contract, the Contractor shall obtain approval from the Engineer to cut trees that interfere with ITS infrastructure and/or equipment removal or relocation.

The Contractor shall protect adjacent infrastructure, structures, utilities, and their contents that are designated to remain. Any damage due to negligence on the part of the Contractor shall be cause for the Engineer to order its replacement or repair. The cost of replacement or repair shall be borne fully by the Contractor.

Where plans call for removal of existing ITS infrastructure and/or equipment to salvage or reuse elsewhere, the Contractor shall take care to prevent damaging the existing infrastructure/equipment during removal and adhering to all of the requirements of Section 729 for installation that pertain to removal and handling (e.g., fiber optic cable minimum bending radius and tensile loading requirements, OTDR testing, etc.). -----

2. REMOVAL OF FIBER OPTIC CABLE.

All aerial fiber optic cable and associated equipment designated or directed to be removed shall be removed in such a manner that the existing supporting infrastructure will not be damaged.

All undergrade fiber optic cable and associated equipment designated or directed to be removed shall be removed in such a manner that the existing infrastructure will not be damaged unless otherwise noted on the plans.

All fiber optic cable identified for removal shall be removed and not abandoned regardless if other roadway work would demolish it with their processes. Fiber optic cable identified for removal is considered a life/safety hazard waste upon removal and must be recycled and/or disposed of in accordance with any regulatory, statutory, or other State/Local requirements.

All fiber optic cable and associated equipment designated for removal shall not be removed until the existing equipment, data communications, and facilities have been relocated or decommissioned as per the plans. Removal shall not commence until so designated and approved by the Engineer.

Prior to any interruptions of fiber optic cable service, the Region Transportation Systems Management & Operations (TSM&O) Engineer and the Region Traffic Management Center (RTMC) Supervisor shall be contacted and schedules coordinated to minimize down time of the ITS and traffic signal system(s) being served by said fiber optic cable.

3. REMOVAL OF ITS INFRASTRUCTURE.

All ITS infrastructure and associated equipment designated or directed to be removed shall be removed in such a manner that the existing supporting infrastructure will not be damaged unless otherwise noted on the plans.

All ITS infrastructure and associated equipment identified for removal shall be removed and not abandoned regardless if other roadway work would demolish it with their processes. All ITS infrastructure and associated equipment identified for removal shall be delivered, in working order without damage or blemish, to the designated entity/office as indicated on the plans. Any ITS items or components designated for disposal on the plans shall be recycled and/or disposed of in accordance with any regulatory, statutory, or other State/Local requirements.

All ITS infrastructure and associated equipment designated for removal shall not be removed until all required and relocated/existing supporting equipment, data communications, and facilities work has been completed as designated by the plans. Removal shall not commence until so designated and approved by the Engineer.

Prior to any interruptions of ITS infrastructure and related service, the Region TSM&O Engineer and the RTMC Supervisor shall be contacted and schedules coordinated to minimize down time of the ITS and traffic signal system(s) being served by that ITS infrastructure.

(d) Relocation of ITS Infrastructure and/or Equipment.

1. GENERAL.

Relocation of ITS infrastructure and/or equipment shall consist of the removal, storage, and re-installation of the materials and associated equipment identified in the contract. It shall also include: the restoration of the area of removal to a stable, uniformly graded ground surface; and any testing or recommissioning of said equipment and or materials (e.g., OTDR and fiber optic testing, system/sub-system testing, Bench testing, Field testing, Acceptance testing, and/or Burn-In, etc.).

Use of methods or equipment which might damage existing or completed infrastructure, infrastructure to be retained, or portions thereof, shall not be permitted.

The Contractor shall protect adjacent infrastructure, structures, utilities, and their contents that are designated to remain. Any damage due to negligence on the part of the Contractor shall be cause for the Engineer to order its replacement or repair. The cost of replacement or repair shall be borne fully by the Contractor.

Where plans call for relocation of existing ITS infrastructure and/or equipment to salvage or reuse elsewhere, the Contractor shall take care to prevent damaging the existing infrastructure/equipment during the removal, storage, and re-installation process; and, shall also adhere to all of the requirements of Section 729 for installation that pertain to removal, installation and handling (e.g., fiber optic cable minimum bending radius and tensile loading requirements, OTDR testing, etc.).

Grounding and ground electrodes installation shall be in accordance with Sub-Article 729.03(j).

2. OMIT (FUTURE USE).

3. WOOD POLE (SERVICE POLE).

Wood Pole (Service Pole), required for relocation of electrical power service or aerial cable installation, shall be installed in accordance with these specifications, plans, National Electrical Code (NEC) requirements, National Electrical Safety Code (NESC) requirements, and local utility codes. The wood pole shall be installed with guy wire(s), grounding system, and riser in accordance with Sub-Article 729.03(l). The riser shall be an attached raceway with conduit and fittings where required for undergrade to aerial cable transitions. **Material Submittals will be required in accordance with Sub-article 105.02(d). -----**

(e) Abandoning of ITS Infrastructure and/or Equipment.

1. FOUNDATIONS.

All foundations, when abandoned, shall have the top of the foundation, anchor bolts frame and conduit removed to a depth of not less than 12 inches or as directed below the surface of existing pavement and/or established finish grade. The resulting hole shall be backfilled with material to match the existing surface.

2. CONDUIT.

All underground conduits, when abandoned, shall have the conduit entries/openings removed to a depth of not less than 12 inches or as directed below the surface of existing pavement and/or established finish grade. Any resulting holes shall be backfilled with material to match the existing surface.

(f) Disposal of ITS Infrastructure and/or Equipment.

The Contractor shall remove and dispose of ITS infrastructure (e.g., fiber optic cable, etc.) and associated equipment designated for removal on the plans. The disposal method and timeframe for disposal shall be approved by the Engineer in accordance with all applicable rules and regulations, project notes, and Sequence of Construction requirements.

Disposal of debris and materials not allowed for reuse shall be done in accordance with the requirements for disposal given in Sub-article 201.03(d). -----

(g) As-Built Drawings.

The Contractor shall update as-built documentation of all work provided in accordance with these Specifications and the requirements set in Item 729.03(a)3.

(h) Coordination of Work.

Coordination with roadway, traffic signals, and bridge work shall be of prime importance to prevent undue damage to completed items of work and to existing facilities. Any damage to existing facilities caused by the removal, relocation, or installation of the material or equipment required under this Specification shall be repaired by the Contractor at no additional cost to the Department.

The Contractor shall field verify equipment locations with the Engineer prior to commencing work.

(i) Excavating and Backfilling.

Excavation required for the removal, relocation and placement of ITS infrastructure and/or equipment (e.g., conduits, foundations, comboxes, ITS poles, etc.) shall be performed in such manner as to cause the least possible injury to pavement, curbs or other improvements and shall not be performed until immediately before removal and/or relocation of conduit and other appliances. The material from the excavation shall be placed in a position where the least interference with the surface drainage will occur. Surplus excavated materials shall be removed from the site the same day or stockpiled and disposed of by the Contractor, as directed by the Engineer.

Trenches shall not be excavated wider than necessary for the proper installation and/or removal of the conduits, wires and/or fiber optic cables. These trenches shall be backfilled the same day. The Contractor shall fill all holes or pits resulting from removal operations with suitable material as approved by the Engineer.

The backfilled areas shall be compacted to the extent necessary to prevent future settlement.

(j) Restoration of Site.

The Contractor shall restore any areas disturbed by their work to their original condition in accordance with Section 210.

Landscaping shall be restored to original or better condition if disturbed.

734.04 Method of Measurement.

The Removal and Relocation of Intelligent Transportation Systems shall be measured for payment by the appropriate items complete, in place, acceptably removed and/or relocated (and where applicable: tested and operational) in accordance with the following:

ITEM 734-U: Wood Pole shall be measured per each.

ITEM 734-W: Relocation of ITS Infrastructure shall be measured per lump sum.

ITEM 734-X: Removal of Fiber Optic Cable/ITS Infrastructure shall be measured per lump sum.

734.05 Basis of Payment.

Unless otherwise indicated below, the payments shall be made in increments of:

1. Up to 70% of the contract unit price upon successful completion of the BEN bench test and installation of item(s) [Partial payments may be made in accordance with Article 109.07 up to this percentage.];
2. Additional 15% of the contract unit price upon completion of the field test; and,
3. Final 15% of the contract unit price upon completion of the acceptance test (burn-in).

(a) Unit Price Coverage.

ITEM 734-U. WOOD POLE, will be paid for at the contract bid price, which shall be full compensation for furnishing, installing, and testing, complete in place, as shown on the plans, with the following:

1. Wood pole (service pole), guy wire(s), excavating, backfilling and seeding, attachment hardware, and grounding system;
2. Weather head(s), vertical conduit(s) and riser;
3. Manufacturer and Contractor warranties;
4. And for all materials, labor, equipment, tools, transportation, and incidentals necessary to complete this item of work.

[Please note: Messenger Wire, Conductors, and Conduit are separate Section 729 pay items.]

ITEM 734-W. RELOCATION OF ITS INFRASTRUCTURE, will be paid for at the contract bid price, which shall be full compensation for relocation of ITS equipment and shall also include removal, storage, and re-installation of the following: ITS poles and foundations; ITS cabinets (includes all equipment and materials contained within cabinet along with mounting hardware; e.g., network switch, fiber distribution unit, vehicle detection components, and other as noted on plans); ITS cabinet foundation and concrete pads; ITS equipment (e.g., camera, vehicle detection equipment, etc.) along with mounting hardware; or other materials called for on the plans; and includes all materials, backfill and seeding, labor, equipment, tools, transportation, and incidentals necessary to complete this item of work. -----

ITEM 734-X REMOVAL OF FIBER OPTIC CABLE/ITS INFRASTRUCTURE, will be paid for at the contract unit price, which shall be full compensation for removal of existing fiber optic cable or ITS infrastructure as indicated on the plans (along with any mounting hardware, poles, concrete pads, etc.) and, include all materials, backfill and seeding, labor, equipment, tools, transportation, and incidentals necessary to complete this item of work. -----

(b) Payment will be made under Item No.:

734-U Wood Pole - per each

734-W Relocation of ITS Infrastructure (***) - per lump sum

734-X Removal of Fiber Optic Cable/ITS Infrastructure (***) - per lump sum

(***) Specify Location or Name of Fiber Optic Cable Segment