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ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

SUBJECT: MOTORIST SERVICES SIGNS AND TOURIST
ORIENTED BUSINESS DIRECTIONAL SIGNS

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APPROVED:

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This Engineering Instruction transmits the following Special Specifications:

15645.60 Tourist Oriented Business Directional
Signs and Ramp Services Signs

15645.61 Motorist Services Signs

transmitting under separate cover copies of the following Standard Sheets:

Standard Sheet 645-20 Standard Size Tourist Oriented Business
Directional Sign and Ramp Service Sign,
Sheet 1 of 2 - Assembly and Installation
Details

Standard Sheet 645-21 Standard Size Tourist Oriented Business
Directional Sign and Ramp Service Sign
Sheet 2 of 2 - Panel Fabrication Details

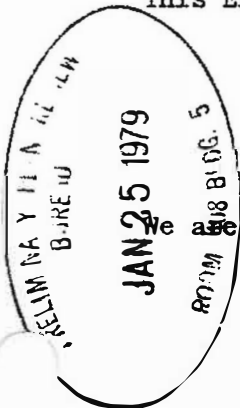
Standard Sheet 645-22 Motorist Services Sign for Main Roadways
of Interstate Highways and Freeways,
Sheet 1 of 2 - Assembly Details

Standard Sheet 645-23 Motorist Services Sign for Main Roadways
of Interstate Highways and Freeways,
Sheet 2 of 2 - Panel Fabrication Details

Standard Sheet 645-24 Intermediate and Large Size Tourist
Oriented Business Directional Sign,
Sheet 1 of 2 - Assembly and Installation
Details

Standard Sheet 645-25 Intermediate and Large Size Tourist
Oriented Business Directional Sign,
Sheet 2 of 2 - Panel Fabrication Details

These Specifications and Standard Sheets cover sign installations for Motorist Services Signing on Interstates and Freeways and Tourist Oriented Business Directional Signing on the Primary System. They are to be used in conjunction with instructions provided by the Divisions of Real Estate and Traffic and Safety.



Subject: MOTORIST SERVICES SIGNS AND TOURIST ORIENTED BUSINESS DIRECTIONAL SIGNS

All signs are assembled using detachable basic panels so that the overall size of the sign may vary depending upon the number of businesses or services requiring signing. Additional panels may be added to the base sign to increase its size as the number of eligible businesses or services increases. Business panels are attached to the base sign panel and are furnished by the business concerned for installation by the contractor.

The Specifications provide Item Numbers for the various sizes of basic sign assemblies that may be required. Additionally, there are Item Numbers for individual panels and posts that may be furnished as part of the initial construction contract for later installation by Maintenance. These items should be included in the Contract only where you have reasonable evidence that they will be needed for specific businesses which will become operational within two years of PS & E submission.

15645.60 — TOURIST ORIENTED BUSINESS DIRECTIONAL SIGNS AND
RAMP SERVICE SIGNS

Description. This work shall consist of furnishing and installing Tourist Oriented Business Directional Signs and Ramp Service Signs; and/or furnishing additional sign panels and posts, in accordance with the Contract Documents, Standard Sheets or as ordered by the Engineer.

Materials. Materials shall meet the requirements of Section 645-2 of the Standard Specifications except as modified by the standard sheets.

Construction Details. Construction details shall meet the requirements of Section 645-3 except as modified by this Specification and the Standard Sheets. These signs are assembled using a heading panel and from one to four background panels to which are attached business panels.

Panel Fabrication. Panels shall be fabricated as specified on the Standard Sheets. The types of panels fabricated shall be those necessary to construct the sign assembly specified on the plans.

Assembly. The sign shall be assembled as specified on the Standard Sheet with the heading and background panels arranged as specified on the plans. Business panels shall be attached in the order specified on the plans.

Furnishing Additional Heading and Background Panels. Additional heading and background panels shall be furnished as specified in the Contract Documents. They shall be suitably packaged to prevent damage and delivered to the place designated in the Contract Documents. Packages shall be clearly labeled as to contents.

Business Panels. Business panels will be furnished by the State and installed by the Contractor. If the Business panel is not available at the proper time its position shall be covered by opaque material.

Posts

Ramp Service Signs and standard size Tourist Oriented Business Directional Signs may be installed on either multiple-posts or a single-post designed by the Contractor to conform to AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals" for both structural and breakway features. Posts shall be capable of supporting a four panel sign assembly with a 70 MPH wind load. Single-post designs shall prevent sign oscillation at all wind speeds under 70 MPH.

Multiple-post signs shall be placed using one of the following methods:

1. Driven. The post shall be equipped with a 4'-0" high x 6" wide x 1/4" thick steel soil bearing plate securely attached to the lower end of the post and driven to a depth of 4'-6".
2. Augered or Dug and Backfilled. The post shall be equipped with the plate described under the Driven method. A 4'-6" x 1'-0" min. post hole shall be either augered or dug. Backfill shall be placed in layers not exceeding 8 inches and thoroughly compacted. Concrete backfill is allowed.
3. Concrete Footing. Posts (plate not required) shall be placed in 4'-0" deep x 1'-0" diameter concrete footings.

Single-post signs shall be installed in 5'-0" deep x 1'-6" diameter concrete footings.

Post designs shall be submitted to the Deputy Chief Engineer, Facilities Design Subdivision for approval.

Posts for intermediate and large size signs shall have breakaway bases except that those signs located behind guide rail shall not have breakaway bases. Posts, breakaway bases and footings shall be constructed and installed as specified on the Standard Sheets for "Typical Guide Signs".

Posts shall not be installed in soft clays, loose silts or organic soils except as directed by the Engineer.

Furnishing Additional Posts. Additional posts shall be furnished as specified in the Contract Documents. Posts shall be delivered to the place designated in the Contract Documents.

Method of Measurement. Tourist Oriented Business Directional Signs and Ramp Service Signs shall be measured as the number of complete signs furnished and installed.

Additional background and heading sign panels shall be measured as the number of individual panels actually furnished.

Additional posts shall be measured as the number of individual posts actually furnished.

Basis of Payment. The unit price bid for furnishing and installing signs shall include the cost of all material, equipment and labor necessary to complete the work, including installing business panels, and posts and footings including the breakaway base assembly.

The unit price bid for furnishing additional background panels, heading panels and posts shall include the cost of all material, equipment, labor and delivery.

Payment will be made under:

<u>Item No.</u>	<u>Item</u>	<u>Pay Unit</u>
15645.6001	Furnish and Install Standard Size Tourist Oriented Business Directional Sign (1 panel)	Each
15645.6002	Furnish and Install Standard Size Tourist Oriented Business Directional Sign (2 panel)	Each
15645.6003	Furnish and Install Standard Size Tourist Oriented Business Directional Sign (3 panel)	Each
15645.6004	Furnish and Install Standard Size Tourist Oriented Business Sign (4 panel)	Each
15645.6011	Furnish and Install Ramp Service Sign (1 panel)	Each
15645.6012	Furnish and Install Ramp Service Sign (2 panel)	Each
15645.6013	Furnish and Install Ramp Service Sign (3 panel)	Each
15645.6014	Furnish and Install Ramp Service Sign (4 panel)	Each
15645.6021	Furnish and Install Intermediate (1 panel) Size Tourist Oriented Business Directional Sign	Each
15645.6022	Furnish and Install Intermediate (2 panel) Size Tourist Oriented Business Directional Sign	Each
15645.6023	Furnish and Install Intermediate (3 panel) Size Tourist Oriented Business Directional Sign	Each
15645.6024	Furnish and Install Intermediate (4 panel) Size Tourist Oriented Business Directional Sign	Each

<u>Item No.</u>	<u>Item</u>	<u>Pay Unit</u>
15645.6031	Furnish and Install Large Size (1 panel) Tourist Oriented Business Directional Sign	Each
15645.6032	Furnish and Install Large Size (2 panel) Tourist Oriented Business Directional Sign	Each
15645.6033	Furnish and Install Large Size (3 panel) Tourist Oriented Business Directional Sign	Each
15645.6034	Furnish and Install Large Size (4 panel) Tourist Oriented Business Directional Sign	Each
15645.6041	Furnish Standard Size Background Panel	Each
15645.6042	Furnish Standard Size Heading Panel	Each
15645.6043	Furnish Intermediate Size Background Panel	Each
15645.6044	Furnish Intermediate Size Heading Panel	Each
15645.6045	Furnish Large Size Background Panel	Each
15645.6046	Furnish Large Size Heading Panel	Each
15645.6047	Furnish Posts	Each

15645.61__ MOTORIST SERVICES SIGNS

Description. This work shall consist of furnishing and installing Motorist Services Signs and/or furnishing additional panels, posts and footings in accordance with the Contract Documents, Standard Sheets or as ordered by the Engineer.

Materials. Materials shall meet the requirements of Subsection 645-2 of the Standard Specifications except as modified by the Standard Sheets.

Construction Details. Construction Details shall meet the requirements of Subsection 645-3 of the Standard Specifications and the Standard Sheet for "Typical Guide Signs" except as modified by this Specification and the Standard Sheets for Motorist Services Signs. These signs are assembled using main and extension panels to which are attached business panels.

Panel Fabrication. Panels shall be fabricated as specified on the Standard Sheets. The type of panels fabricated shall be those needed to construct the sign as specified in the Contract Documents.

Assembly. The sign shall be assembled as specified on the Standard Sheets with the panel arrangement as specified in the Contract Documents. Business panels shall be installed in the arrangement specified in the Contract Documents.

Business Panels. Business panels will be furnished by the State and shall be installed by the Contractor. If the Business panel is not available its position shall be covered by opaque material.

Furnishing Additional Main and Extension Panels. Additional main and extension panels shall be furnished as specified in the Contract Documents. They shall be suitably packaged to prevent damage and delivered to the place designated in the Contract Documents. Packages shall be clearly labeled as to contents.

Posts. Posts shall have breakaway bases except that those signs located behind guiderail shall not have breakaway bases. Posts, breakaway bases and footings shall be constructed and installed as specified on the Standard Sheet for "Typical Guide Signs".

Furnishing Additional Posts, Breakaway Bases and Footings. Additional posts, breakaway bases and footings shall be furnished as specified in the Contract Documents. The footing and lower portion of the breakaway base shall be installed at the location specified in the Contract Documents. Posts and the remaining portion of the breakaway base shall be marked as to post type, length and installation location and delivered to the place designated in the Contract Documents.

Method of Measurement. Motorist Services Signs shall be measured as the number of complete signs furnished and installed.

Additional sign panels shall be measured as the number of panels actually furnished.

Additional posts, breakaway bases and footings shall be measured as the number of posts and breakaway bases furnished with footings furnished and installed.

Basis of Payment. The unit price bid for each sign shall include the cost of all material, equipment and labor necessary to satisfactorily complete the work including posts, footings, breakaway base assemblies, and installation of the business panels.

The unit price bid for furnishing additional main and extension panels shall include the cost of all material, equipment, labor and delivery.

The unit price bid for furnishing additional posts, breakaway bases, and footings shall include the cost of all material, equipment, labor to complete the work including installation of the footing and delivery.

Payment will be made under:

<u>Item No.</u>	<u>Item</u>	<u>Pay Unit</u>
15645.6101	Furnish and Install; Gas Motorist Services Single Exit Sign Assembly with Main Panel Only.	Each
15645.6102	Furnish and Install; Gas Motorist Services Single Exit Sign Assembly with Main and Extension Panels.	Each
15645.6103	Furnish and Install; Gas Motorist Services Closely-Spaced Exit Sign Assembly with One Main Panel Only	Each
15645.6104	Furnish and Install; Gas Motorist Services Closely-Spaced Exit Sign Assembly with Two Main Panels.	Each
15645.6111	Furnish and Install; Food, Lodging, Camping Motorist Services Single Exit Sign Assembly with Main Panel Only.	Each
15645.6112	Furnish and Install; Food, Lodging, Camping Motorist Services Single Exit Sign Assembly with Main and Extension Panels	Each

<u>Item No.</u>	<u>Item</u>	<u>Pay Unit</u>
15645.6113	Furnish and Install; Food, Lodging, Camping Motorist Services Closely-Spaced Exit Sign Assembly with One Main Panel Only.	Each
15645.6114	Furnish and Install; Food, Lodging, Camping Motorist Services Closely-Spaced Exit Sign Assembly with Two Main Panels.	Each
15645.6121	Furnish Gas Main Panel Only.	Each
15645.6122	Furnish Gas Extension Panel Only.	Each
15645.6123	Furnish Food, Lodging, Camping Main Panel Only.	Each
15645.6124	Furnish Food, Lodging, Camping Extension Panel Only.	Each
15645.6125	Furnish Post, Breakaway Base, and Install Footing Only.	Each