I. GENERAL
All work associated with establishing or setting horizontal or vertical survey control, collecting survey field data or staking out field positions of proposed construction work, and preserving or stake out of land boundary markers is included under Survey Operations.

All work associated with the various types of Right of Way (ROW) Markers and the Permanent Survey Markers (PSM) includes providing the markers as specified to the site, installation, and certification of the location(s).

In accordance with NYS State Education Law, all work associated with boundary determinations or boundary monumentation can only be performed by or under the direction of a Licensed Professional Land Surveyor. Therefore, all locations of ROW Markers or PSMs can only be certified by a Licensed Professional Land Surveyor. (Certifications can also be submitted by exempt Licensed Professional Engineers as permitted under Article 145 of the NYS Education Law, but there are very few Engineers who still qualify under this exemption.)

II. INSTALLATION/CERTIFICATION
1. The Contractor installs the ROW Markers as per the standard sheet and to the required accuracy. PSMs are installed in accordance with the standard sheet at a location specified in the contract documents and the Acquisition Maps.
2. Inspectors should visually check the relative locations of the markers to other topographic features to verify their relative locations, such as proximity to ROW fencing, other ROW Markers, drainage structures, roadway pavement or sidewalks, or to adjacent property lines. If there seems to be a discrepancy with the location, ask the Surveyor to verify the location.
3. Within 30 days of installation, the Contractor submits to the Engineer, the appropriate marker certification form (See Exhibits 625A and 625B) which has been signed and sealed by a NYS Licensed Land Surveyor. The Engineer must forward the forms to the Regional Land Surveyor for approval of appropriate information. The Regional Land Surveyor must initial the approved certification form and return a copy to the Engineer. Upon receipt of the approved certification form, the Contractor will then be eligible to receive final payment for the markers.
4. The Engineer is responsible for placing the survey marker locations on the as-built drawings.
5. The Contractor must submit survey notes and calculations to the Engineer, prior to contract acceptance. (Transmittal of the notes and calculations may be in an electronic format.)

EXHIBITS
A  Sample Form HC 125  Permanent Survey Marker - Surveyor’s Certification
B  Sample Form HC 126  Right Of Way Markers - Surveyor’s Certification
**PERMANENT SURVEY MARKER - SURVEYOR'S CERTIFICATION**

**JOB STAMP**
D123456  PIN z987.65.321  
Rte 123 Over the Hudson River  
Village of Sulzfeld  
Albany County  
I.M. BUILDER

**INK SEAL PLACED HERE**

**CERTIFICATION**
I hereby certify that the Permanent Survey Marker listed herein was installed in accordance with and to the degree of accuracy required by Section 625 of the Standard Specifications.

**Name:** G. Washington  
**Signature:** G. Washington  
**Date:** 11/01/08

<table>
<thead>
<tr>
<th>STATE HWY (SH) NO.</th>
<th>123</th>
<th>NYS ROUTE NO.</th>
<th>7</th>
<th>CITY/TOWN/VILLAGE</th>
<th>East Oshkosh</th>
<th>COUNTY</th>
<th>Albany</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYS PLANE COORD. SYS. ZONE</td>
<td>EAST</td>
<td>NAME OF STATION (PSM NO.)</td>
<td>671</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**N = 43604.978**  
**E = 222511.345**

**HORIZ. DATUM:** NAD 1983 / (CORS 96)  
**COMBINED FACTOR:** 0.99996134046

**DISTANCES & DIRECTIONS TO PRECEDING AND SUCCEEDING MARKERS**

<table>
<thead>
<tr>
<th>PSM NUMBER</th>
<th>DISTANCE (meters)</th>
<th>GRID BEARING</th>
</tr>
</thead>
<tbody>
<tr>
<td>BL 7090</td>
<td>190.270</td>
<td>N 82° 18' 38&quot; W</td>
</tr>
<tr>
<td>BL 7091</td>
<td>173.514</td>
<td>S 85° 33' 51&quot; W</td>
</tr>
<tr>
<td>PSM 670</td>
<td>193.014</td>
<td>N 81° 40' 10&quot; W</td>
</tr>
</tbody>
</table>

**ELEV. = 164.466 meters DATUM: NAVD 1988**

**BASELINE STA/Off:** 14+758.005 - 5.153 R
**CENTERLINE STA/Off:** 5+456.391 - 2.281 R

**DESCRIPTION (TO FIND MARKER):**
BEHIND GUIDE RAIL SOUTH OF ROUTE 7 ±1 METER OFF EDGE OF PAVEMENT. APPROXIMATELY 14 METERS SOUTHEAST OF ENTRANCE TO GOLF COURSE. APPROXIMATELY 55 METERS NORTHWEST OF MILE MARKER 7 1325 2047

**SKETCH OF MARKER (INCLUDING TIES):**

**NOTES:**
1) THE FORM WILL BE MARKED WITH THE JOB STAMP.  
2) SHOW NORTH ARROW AND DISTANCE TO NEAREST MILEPOST REFERENCE MARKER.  
3) COORDINATES, DISTANCES AND ELEVATIONS SHALL BE CALCULATED AND NOTED TO NEAREST MILLIMETER.  
4) ALL TIES ARE TO BE MEASURED HORIZONTALLY WITH A STEEL TAPE, UNLESS OTHERWISE NOTED.  
5) SUBMIT FORM MARKED WITH AN ORIGINAL SIGNATURE AND STAMP OF THE LAND SURVEYOR’S SEAL.

**ORIGINAL ACCEPTED BY REGIONAL LAND SURVEYOR RJS INITIALED COPY RETURNED TO ENGINEER FSG**

February 2009  
New York State Department of Transportation  
Construction Inspection Manual  
Exhibit 625A
# RIGHT OF WAY MARKERS - SURVEYOR'S CERTIFICATION

**JOB STAMP**
D123456  PIN z987.65.321  
Rte 123 Over the Hudson River  
Village of Sulzfeld  
Albany County  
I.M. BUILDER

**LAND SURVEYOR or EXEMPT P.E. SEAL**

**CERTIFICATION**
I hereby certify that the Right of Way Markers listed herein were installed in accordance with and to the degree of accuracy required by Section 625 of the Standard Specifications.

<table>
<thead>
<tr>
<th>STATE HWY (SH) NO.</th>
<th>NYS ROUTE NO.</th>
<th>CITY/TOWN/VILLAGE</th>
<th>COUNTY:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1234</td>
<td>321</td>
<td>East Oshkosh</td>
<td>Albany</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAP NO.</th>
<th>BASELINE STATION</th>
<th>OFFSET</th>
<th>L/R</th>
<th>BASELINE STATION</th>
<th>OFFSET</th>
<th>L/R</th>
<th>MARKER ITEM NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>123</td>
<td>345+678.901</td>
<td>123.456</td>
<td>L</td>
<td>345+679.000</td>
<td>123.459</td>
<td>L</td>
<td>625.03</td>
</tr>
</tbody>
</table>

**NOTES:**
1) THE FORM WILL BE MARKED WITH THE JOB STAMP.
2) AS BUILT STATIONS AND OFFSETS SHALL BE LOCATED AND DIMENSIONED TO NEAREST MILLIMETER.
3) USE SEPARATE CERTIFICATION FORM FOR EACH STATE HIGHWAY.
4) SUBMIT FORM MARKED WITH AN ORIGINAL SIGNATURE AND INK STAMP OF THE LAND SURVEYOR'S SEAL.

**ORIGINAL ACCEPTED BY REGIONAL LAND SURVEYOR** A.L.S.  INITIALED COPY RETURNED TO ENGINEER E.S.C.

Name: G. Washington  Signature: G. Washington  Date: 11/01/08