NEW YORK STATE | Department of Transportation	ENGINEERING INSTRUCTION	EI 24-024

Title: **NEW SPECIAL SPECIFICATION FOR DIGITAL INSPECTION DEVICE FOR DIGITAL DELIVERY CONTRACTS**

Approved:

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Date

ADMINISTRATIVE INFORMATION:

- This Engineering Instruction (EI) is effective upon signature.
- This EI announces a new pay item, Item 637.4100XX15 – *Digital Inspection Device.*
- Disposition of Issued Materials: The special specification will reside in the Special Specification Repository located at: https://www.dot.ny.gov/spec-repository-us/.

PURPOSE: To issue a new special specification for digital inspection devices.

TECHNICAL INFORMATION:

The new special specification provides construction field staff with handheld tablets for use on digital delivery contracts.

IMPLEMENTATION:

- **Actions by Regional Design:**
  - For each digital delivery construction contract, Designers should ask the Regional Construction group how many devices to specify. Assume 1 handheld tablet per each inspector.
  - For contracts not yet submitted for PS&E or contracts submitted for PS&E and are 4 weeks or more prior to the letting date, Designers should ask the Regional Construction group if the item should be added to the Contract.
    - If so, include the item in your PS&E estimate or add via amendment in coordination with DQAB.
    - If not, no action needed.

- **Actions by Regional Construction:**
  - Provide Regional Design with recommendations for number of devices to be added to any given contract.
  - For contracts within 4 weeks of letting date, already let, awarded, or in construction (as of the effective date of this issuance), the Engineer-In-Charge (EIC) should ask the Regional Construction group if the item should be added.
    - If so, the item shall be added via change order.
    - If not, no action needed.
  - The EIC shall inform the Contractor of the following at the Pre-Construction meeting:
    - How many devices are required.
    - What type of devices are required.

    - When those devices will be required.

- **Actions by Office of Construction:**
    - Develop state-wide training for the Digital Inspection Device. At a minimum, the training must demonstrate the following:
        - Device setup, including creation of device logins and installation of required software.
        - Proper use of the device while in the field.
        - Proper erasure of the device before they are returned back to the Contractor at the end of the contract.
    - Provide state-wide training and software technical support.
    - Update the Construction Pay Item Checklist.

TRANSMITTED MATERIALS: Specification for Item 637.4100XX15 is attached.

BACKGROUND: The Department is continually increasing the number of digital delivery contracts awarded throughout the State. In support of Engineering Instruction 23-010 and the requirement for certain capital projects to be let as hybrid digital delivery contracts, this Engineering Instruction is necessary to enable inspection staff to review digital information and conduct inspections.

The required specification will ensure the device is capable of running the latest version of the following software:

- Bentley Synchro Field
- Bluebeam Revu (or Bluebeam Cloud)
- AASHTOWare Project (SiteManager, Construction, & Materials)
- VMWare Horizon
- Microsoft Office 365
- Adobe Acrobat Reader

CONTACT: Direct questions regarding digital inspection devices to the NYSDOT Office of Design, Eric Coulter at (518) 457-8554 or Eric.Coulter@dot.ny.gov. Direct questions regarding training and software to the NYSDOT Office of Construction, Jonathan King at (518) 457-6486 or Jonathan.King@dot.ny.gov. Direct specification related questions to the NYSDOT Design Quality Assurance Bureau, Corey Barringer at (518) 485-5435 or Corey.Barringer@dot.ny.gov.

ITEM 637.4100XX15 – DIGITAL INSPECTION DEVICE

DESCRIPTION

Under this item, the Contractor shall furnish a digital inspection device for use by the Department.

MATERIALS

The Contractor shall provide a new or factory-reset handheld tablet with the following requirements throughout the duration of the Contract:

Minimum Tablet Requirements:

- 10” Screen (touch screen)
- Android 14 or iPadOS 16 Operating System
- Cellular Enabled
- Wi-Fi Enabled
- GPS Enabled
- 128 GB Storage Capacity
- 8 GB RAM
- Front and Rear Cameras

Cellular/Mobile Data Service:

- Nationwide Network Coverage
- 5G Access
- Unrestricted Data (no data usage restrictions on amount or speed)

Accessories:

- (1) Charger (cord and plug)
- (1) Protective Case
    - Material: Silicon and Polycarbonate
    - Accessories: Hand Strap, Stylus Holder, Lanyard, and Stand
- (2) Screen Protectors (tempered glass)
- (2) Stylus Pens
- (1) 30,000MAh Power Bank
- Electronic Protection Plan – Device Insurance (Full Coverage)

ITEM 637.4100XX15 – DIGITAL INSPECTION DEVICE

CONSTRUCTION DETAILS

The Contractor shall provide the above materials within 14 days of contract award unless an alternate date is agreed upon. All materials furnished, the need for replacements, and hardware support, shall be the responsibility of the Contractor and subject to approval by the Engineer. All devices within a given Contract shall be the same brand of device, running the same operating system, and furnished factory reset.

The Department is responsible for device setup, software installation, necessary accounts, and training.

All equipment furnished shall be turned over to the Contractor no more than 30 days after final contract acceptance. All content and settings must be erased, and the digital inspection device shall be reset to its factory setting.

METHOD OF MEASUREMENT

Work shall be measured as the number of months during which the digital inspection device is operable and provided as specified from the date received until project acceptance. Payment will not occur any time that the device is out of service.

Additional payments will be made if the device is not returned to the Contractor within 30 days after contract acceptance.

Payment units will be measured up to the nearest month.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing and maintaining the digital inspection device, including necessary services.

Payment will be made under:

Item No.	Item	Pay Unit
637.4100XX15	Digital Inspection Device	MNTH

XX = Serialized 01 to 99