New Jersey Department of Transportation
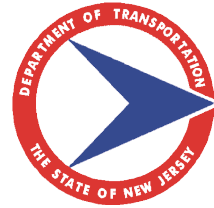1035 Parkway Avenue, PO Box 600, Trenton, New Jersey 08625-0600

Baseline Document Change Announcement

Field Office and microcomputer system

BDC05S-06

September 28, 2005

SUBJECT: **Revision to Subsections 105.15, and 106.06 of the *2001 Standard Specifications* both English and Metric Units regarding Field Office and microcomputer system**

Subsection 105.15 has been revised to specify that the construction field office be located adjacent to the contractor's field office and subsections 105.15 1a (17) & 106.06 1aa have been revised regarding microcomputer system.

The following revisions have been incorporated in both the English unit *Standard Input SI2001E1* and Metric unit *Standard Input SI2001M1* as of September 28, 2005:

The following revisions are incorporated in the English unit Standard Input SI2001E1:

105.15 Field Office.
> **1.   Construction Field Offices.**
>> **a   Type A.**

THE FIRST PARAGRAPH IS CHANGED TO:

> Type A field office shall be of weatherproof construction located adjacent to the contractor's field office having a floor area of not less than 576 square feet and a ceiling height of not less than 7½ feet, and having partitions and doors providing three communicating rooms, one with a floor area of not less than 288 square feet and two with a floor area of not less than 144 square feet each.

> (17)

THE FIRST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

> (17) A microcomputer system compatible with the Department's "ACES" system, whether purchased new or previously used.

THE FIFTH PARAGRAPH IS CHANGED TO:

> The microcomputer system (after the project data has been erased from the hard drive by the Department), manuals, instructions, software, and literature shall be removed and retained by the Contractor when no longer required as determined by the

Resident Engineer. The data cartridges and data diskettes will become the property of the State.

THE FOLLOWING ARE ADDED TO PART (17)

The microcomputer system shall include the following:
(a)   ____ base computer system(s) having at minimum:
   1) Pentium IV Processor at 3.5 GHz or faster, Intel processor with Hyper Threading technology, with 1024 MB RAM, 512 MB Video RAM, mouse, mouse pad, 200 Gigabyte hard drive or larger (must be designated as drive C:), one DVD (+/-) Writer Drive, one CD-R Recordable Drive, and one 3½-inch, 1.44 MB floppy diskette drive with multi-media card reader installed as the "A" drive. System must be USB 2.0 compactable.
   2) 56K baud data/fax modem. (e.g., 3Com U.S. Robotics 56K Fax modem, 3Com U.S. Robotics Courier V.Everything/V.34 - 56K ITU / x2 Technology, or Hayes Accura 56K).
   3) One wireless network card for each base computer system specified, when more than one base computer is specified.
   4) One wireless Ethernet Hub Switch with appropriate number of ports and cables (e.g. Lynksys) and a print server.
   5) One dedicated telephone line per computer to be used in conjunction with each of the microcomputer modem.
   6) One high-speed broad band connection with a minimum speed of 3 Megabytes per second (mbps) with dynamic IP address per field office (DSL, Cable, etc.) for the duration of the project.
   7) 19 inch or larger Flat Screen LCD monitor with tilt/swivel capabilities.
   8) 250 Megabyte or larger Zip Drive internal or external with backup software for MS-Windows and DOS, and fifteen corresponding formatted data cartridges corresponding to the tape drive size (e.g., Iomega Zip Drive or equivalent).
   9) 10 USB 1 GB Flash/Stick/Jump Memory Drives. (e.g. SanDisk Cruzer Micro 1 Gigabyte).
   10) One Flatbed USB version 2.0 or greater Color Scanner. (e.g. H.P. or Cannon)
   11) Uninterruptible power supply (UPS) - OMNI 1000 or approved equal (e.g., APC-1000 - American Power Corporation).
   12) Surge protector for the entire computer workstation to be used in conjunction with the UPS (e.g., Zero Surge Power, Inc. - Point of Use - 2R-15 amp/120 volts).
   13) Static mat, floor type, 4 by 5 feet or larger with grounding capabilities.
   14) Computer workstation, printer stand, and/or table having both appropriate surface and chair height.
   15) Five boxes of 3½-inch floppy diskettes that match the drive density of the 1.44 MB floppy diskette drive (ten per box).
   16) 150 CD-R 700 MB (or larger) recordable CD's compatible to the CD drive and 100 recordable DVD's.
   17) One floppy diskette holder (holds 50, 3½-inch floppy diskettes), and dust covers for the microcomputer, monitor, keyboard, and printer.
   18) Two head cleaner kit for 3½-inch floppy diskette drive.
   19) One can of compressed air and screen cleaning solution every other month of the duration of the project.
(b)   One base printer having at minimum:
   1) Color laser printer having HP PCL 5 emulation, with a minimum of 192 Megabytes of expanded memory, appropriate printer cable, and legal size paper tray (e.g., HP Color LaserJet 2500N or TN).
   2) One set of appropriate printer toner cartridges every other month for the duration of the construction project.

3) One ten-ream carton of 8½" X 11" size paper (500 sheets per ream, weight: 2.2 ounces per square yard, color: white, grain: long, for laser printers and copiers) every two months for the duration of the construction project.

4) One ten-ream carton of legal size paper (500 sheets per ream, weight: 2.2 ounces per square yard, color: white, grain: long, for laser printers and copiers) every three months for the duration of the construction project.

(c) One software package, on CD-ROM with documentation, including:

1) Microsoft Windows, latest version with future upgrades for the duration of the entire project.

2) Microsoft Office Professional latest version. Software package should contain the following: word processor, spreadsheet, and database.

3) Norton's System Works for Windows, latest version, or compatible software package with future upgrades and latest virus patches.

4) Anti-Virus software, latest version with monthly updates for the duration of the entire project (e.g., McAfee Anti Virus, Dr. Solomon's, or Norton's Anti Virus).

5) Visio Professional Graphics Software for Windows, latest version.

106.06 Materials Field Laboratory.
1. Laboratory. aa
THE ENTIRE PART aa TEXT ARE CHANGED TO:

aa Microcomputer workstation hardware and software requirements as indicated. The microcomputer system shall include the following:

(1) One base computer system(s) having at minimum:

a) Pentium IV Processor at 3.5 GHz or faster, Intel processor with Hyper Threading technology, with 1024 MB RAM, 512 MB Video RAM, mouse, mouse pad, 200 Gigabyte hard drive or larger (must be designated as drive C:), one DVD (+/-) Writer Drive, one CD-R Recordable Drive, and one 3½-inch, 1.44 MB floppy diskette drive with multi-media card reader installed as the "A" drive. System must be USB 2.0 compactable.

b) 56K baud data/fax modem. (e.g., 3Com U.S. Robotics 56K Fax modem, 3Com U.S. Robotics Courier V.Everything/V.34 - 56K ITU / x2 Technology, or Hayes Accura 56K).

c) One wireless network card for each base computer system specified, when more than one base computer is specified.

d) One wireless Ethernet Hub Switch with appropriate number of ports and cables (e.g. Lynksys) and a print server.

e) One dedicated telephone line per computer to be used in conjunction with each of the microcomputer modem.

f) One high-speed broad band connection with a minimum speed of 3 Megabytes per second (mbps) with dynamic IP address per field office (DSL, Cable, etc.) for the duration of the project.

g) 19 inch or larger Flat Screen LCD monitor with tilt/swivel capabilities.

h) 250 Megabyte or larger Zip Drive internal or external with backup software for MS-Windows and DOS, and fifteen corresponding formatted data cartridges corresponding to the tape drive size (e.g., Iomega Zip Drive or equivalent).

i) 10 USB 1 GB Flash/Stick/Jump Memory Drives. (e.g. SanDisk Cruzer Micro 1 Gigabyte).

j) One Flatbed USB version 2.0 or greater Color Scanner. (e.g. H.P. or Cannon)

k) Uninterruptible power supply (UPS) - OMNI 1000 or approved equal (e.g., APC-1000 - American Power Corporation).

l) Surge protector for the entire computer workstation to be used in conjunction with the UPS (e.g., Zero Surge Power, Inc. - Point of Use - 2R-15 amp/120 volts).

      m) Static mat, floor type, 4 by 5 feet or larger with grounding capabilities.

      n) Computer workstation, printer stand, and/or table having both appropriate surface and chair height.

      o) Five boxes of 3½-inch floppy diskettes that match the drive density of the 1.44 MB floppy diskette drive (ten per box).

      p) 150 CD-R 700 MB (or larger) recordable CD's compatible to the CD drive and 100 recordable DVD's.

      q) One floppy diskette holder (holds 50, 3½-inch floppy diskettes), and dust covers for the microcomputer, monitor, keyboard, and printer.

      r) Two head cleaner kit for 3½-inch floppy diskette drive.

      s) One can of compressed air and screen cleaning solution every other month of the duration of the project.

(2) One base printer having at minimum:

      a) Color laser printer having HP PCL 5 emulation, with a minimum of 192 Megabytes of expanded memory, appropriate printer cable, and legal size paper tray (e.g., HP Color LaserJet 2500N or TN).

      b) One set of appropriate printer toner cartridges every other month for the duration of the construction project.

      c) One ten-ream carton of 8½" X 11" size paper (500 sheets per ream, weight: 2.2 ounces per square yard, color: white, grain: long, for laser printers and copiers) every two months for the duration of the construction project.

      d) One ten-ream carton of legal size paper (500 sheets per ream, weight: 2.2 ounces per square yard, color: white, grain: long, for laser printers and copiers) every three months for the duration of the construction project.

(3) One software package, on CD-ROM with documentation, including:

      a) Microsoft Windows, latest version with future upgrades for the duration of the entire project.

      b) Microsoft Office Professional latest version. Software package should contain the following: word processor, spreadsheet, and database.

      c) Norton's System Works for Windows, latest version, or compatible software package with future upgrades and latest virus patches.

      d) Anti-Virus software, latest version with monthly updates for the duration of the entire project (e.g., McAfee Anti Virus, Dr. Solomon's, or Norton's Anti Virus).

      e) Visio Professional Graphics Software for Windows, latest version.

Hardware and software shall be acceptable to the Regional Construction and Resident Engineers before purchase/installation. All software shall be compatible with the computer's operating system.

The microcomputer system, whether purchased new or previously used, shall be installed in the materials field laboratory.

At the time of installation, the Contractor shall ensure that the system is fully operational and meets all Department requirements. All software listed above shall be installed by the Contractor and maintained in the materials field laboratory. The Contractor shall configure the software to operate with the hardware provided. Any accessories for the microcomputer shall be compatible with the microcomputer.

The Contractor will not be permitted to use this microcomputer system at any time. It is being supplied solely for the Department's use.

The Contractor shall forward all manuals, instructions, software, and literature received with the microcomputer system to the Resident Engineer. The Contractor is responsible for maintaining the microcomputer system in good working condition. Any part of the microcomputer system that becomes inoperable or defective, during the duration of the construction project, shall be replaced by the Contractor within 48 hours.

The microcomputer system (after the project data has been erased from the hard drive by the Department), manuals, instructions, software, and literature shall be removed and retained by the

Contractor when no longer required as determined by the Resident Engineer. The data cartridges and data diskettes will become the property of the State.

The following revisions are incorporated in the Metric unit Standard Input SI2001M1:

105.15 Field Office.
    1.   Construction Field Offices.
        a   Type A.
THE FIRST PARAGRAPH IS CHANGED TO:

> Type A field office shall be of weatherproof construction located adjacent to the contractor's field office having a floor area of not less than 56 square meters and a ceiling height of not less than 2.3 meters, and having partitions and doors providing three communicating rooms, one with a floor area of not less than 28 square meters and two with a floor area of not less than 14 square meters each.

    (17)

THE FIRST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

> (17) A microcomputer system compatible with the Department's "ACES" system, whether purchased new or previously used.

THE FIFTH PARAGRAPH IS CHANGED TO:

> The microcomputer system (after the project data has been erased from the hard drive by the Department), manuals, instructions, software, and literature shall be removed and retained by the Contractor when no longer required as determined by the Resident Engineer. The data cartridges and data diskettes, will become the property of the State.

THE FOLLOWING ARE ADDED TO PART (17)

> The microcomputer system shall include the following:
> (a)   ____ base computer system(s) having at minimum:
>> 1) Pentium IV Processor at 3.5 GHz or faster, Intel processor with Hyper Threading technology, with 1024 MB RAM, 512 MB Video RAM, mouse, mouse pad, 200 Gigabyte hard drive or larger (must be designated as drive C:), one DVD (+/-) Writer Drive, one CD-R Recordable Drive, and one 90-millimeter, 1.44 MB floppy diskette drive with multi-media card reader installed as the "A" drive. System must be USB 2.0 compactable.
>> 2) 56K baud data/fax modem. (e.g., 3Com U.S. Robotics 56K Fax modem, 3Com U.S. Robotics Courier V.Everything/V.34 - 56K ITU / x2 Technology, or Hayes Accura 56K).
>> 3) One wireless network card for each base computer system specified, when more than one base computer is specified.
>> 4) One wireless Ethernet Hub Switch with appropriate number of ports and cables (e.g. Lynksys) and a print server.
>> 5) One dedicated telephone line per computer to be used in conjunction with each of the microcomputer modem.
>> 5) One high-speed broad band connection with a minimum speed of 3 Megabytes per second (mbps) with dynamic IP address per field office (DSL, Cable, etc.) for the duration of the project.
>> 7) 483 millimeter or larger Flat Screen LCD monitor with tilt/swivel capabilities.
>> 8) 250 Megabyte or larger Zip Drive internal or external with backup software for MS-Windows and DOS, and fifteen corresponding formatted data cartridges corresponding to the tape drive size (e.g., Iomega Zip Drive or equivalent).

9) 10 USB 1 GB Flash/Stick/Jump Memory Drives. (e.g. SanDisk Cruzer Micro 1 Gigabyte).

10) One Flatbed USB version 2.0 or greater Color Scanner. (e.g. H.P. or Cannon)

11) Uninterruptible power supply (UPS) - OMNI 1000 or approved equal (e.g., APC-1000 - American Power Corporation).

12) Surge protector for the entire computer workstation to be used in conjunction with the UPS (e.g., Zero Surge Power, Inc. - Point of Use - 2R-15 amp/120 volts).

13) Static mat, floor type, 1.2 by 1.5 meters or larger with grounding capabilities.

14) Computer workstation, printer stand, and/or table having both appropriate surface and chair height.

15) Five boxes of 90-millimeter floppy diskettes that match the drive density of the 1.44 MB floppy diskette drive (ten per box).

16) 150 CD-R 700 MB (or larger) recordable CD's compatible to the CD drive and 100 recordable DVD's.

17) One floppy diskette holder (holds 50, 90-millimeter floppy diskettes), and dust covers for the microcomputer, monitor, keyboard, and printer.

18) Two head cleaner kit for 90-millimeter floppy diskette drive.

19) One can of compressed air and screen cleaning solution every other month of the duration of the project.

(b) One base printer having at minimum:

1) Color laser printer having HP PCL 5 emulation, with a minimum of 192 Megabytes of expanded memory, appropriate printer cable, and legal size paper tray (e.g., HP Color LaserJet 2500N or TN).

2) One set of appropriate printer toner cartridges every other month for the duration of the construction project.

3) One ten-ream carton of A4 size paper (500 sheets per ream, weight: 75 grams per square meter, color: white, grain: long, for laser printers and copiers) every two months for the duration of the construction project.

4) One ten-ream carton of legal size paper (500 sheets per ream, weight: 75 grams per square meter, color: white, grain: long, for laser printers and copiers) every three months for the duration of the construction project.

(c) One software package, on CD-ROM with documentation, including:

1) Microsoft Windows, latest version with future upgrades for the duration of the entire project.

2) Microsoft Office Professional latest version. Software package should contain the following: word processor, spreadsheet, and database.

3) Norton's System Works for Windows, latest version, or compatible software package with future upgrades and latest virus patches.

4) Anti-Virus software, latest version with monthly updates for the duration of the entire project (e.g., McAfee Anti Virus, Dr. Solomon's, or Norton's Anti Virus).

5) Visio Professional Graphics Software for Windows, latest version.

106.06 Materials Field Laboratory.

1. Laboratory. aa

THE ENTIRE PART aa TEXT ARE CHANGED TO:

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(1) One base computer system(s) having at minimum:

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millimeter, 1.44 MB floppy diskette drive with multi-media card reader installed as the "A" drive. System must be USB 2.0 compactable.

b)   56K baud data/fax modem. (e.g., 3Com U.S. Robotics 56K Fax modem, 3Com U.S. Robotics Courier V.Everything/V.34 - 56K ITU / x2 Technology, or Hayes Accura 56K).

c)   One wireless network card for each base computer system specified, when more than one base computer is specified.

d)   One wireless Ethernet Hub Switch with appropriate number of ports and cables (e.g. Lynksys) and a print server.

e)   One dedicated telephone line per computer to be used in conjunction with each of the microcomputer modem.

f)   One high-speed broad band connection with a minimum speed of 3 Megabytes per second (mbps) with dynamic IP address per field office (DSL, Cable, etc.) for the duration of the project.

g)   483 millimeter or larger Flat Screen LCD monitor with tilt/swivel capabilities.

h)   250 Megabyte or larger Zip Drive internal or external with backup software for MS-Windows and DOS, and fifteen corresponding formatted data cartridges corresponding to the tape drive size (e.g., Iomega Zip Drive or equivalent).

i)   10 USB 1 GB Flash/Stick/Jump Memory Drives. (e.g. SanDisk Cruzer Micro 1 Gigabyte).

j)   One Flatbed USB version 2.0 or greater Color Scanner. (e.g. H.P. or Cannon)

k)   Uninterruptible power supply (UPS) - OMNI 1000 or approved equal (e.g., APC-1000 - American Power Corporation).

l)   Surge protector for the entire computer workstation to be used in conjunction with the UPS (e.g., Zero Surge Power, Inc. - Point of Use - 2R-15 amp/120 volts).

m)   Static mat, floor type, 1.2 by 1.5 meters or larger with grounding capabilities.

n)   Computer workstation, printer stand, and/or table having both appropriate surface and chair height.

o)   Five boxes of 90-millimeter floppy diskettes that match the drive density of the 1.44 MB floppy diskette drive (ten per box).

p)   150 CD-R 700 MB (or larger) recordable CD's compatible to the CD drive and 100 recordable DVD's.

q)   One floppy diskette holder (holds 50, 90-millimeter floppy diskettes), and dust covers for the microcomputer, monitor, keyboard, and printer.

r)   Two head cleaner kit for 90-millimeter floppy diskette drive.

s)   One can of compressed air and screen cleaning solution every other month of the duration of the project.

(2)   One base printer having at minimum:

a)   Color laser printer having HP PCL 5 emulation, with a minimum of 192 Megabytes of expanded memory, appropriate printer cable, and legal size paper tray (e.g., HP Color LaserJet 2500N or TN).

b)   One set of appropriate printer toner cartridges every other month for the duration of the construction project.

c)   One ten-ream carton of A4 size paper (500 sheets per ream, weight: 75 grams per square meter, color: white, grain: long, for laser printers and copiers) every two months for the duration of the construction project.

d)   One ten-ream carton of legal size paper (500 sheets per ream, weight: 75 grams per square meter, color: white, grain: long, for laser printers and copiers) every three months for the duration of the construction project.

(3)   One software package, on CD-ROM with documentation, including:

a)   Microsoft Windows, latest version with future upgrades for the duration of the entire project.

b)   Microsoft Office Professional latest version. Software package should contain the following: word processor, spreadsheet, and database.

c)   Norton's System Works for Windows, latest version, or compatible software package with future upgrades and latest virus patches.

d)   Anti-Virus software, latest version with monthly updates for the duration of the entire project (e.g., McAfee Anti Virus, Dr. Solomon's, or Norton's Anti Virus).

e)   Visio Professional Graphics Software for Windows, latest version.

Hardware and software shall be acceptable to the Regional Construction and Resident Engineers before purchase/installation. All software shall be compatible with the computer's operating system.

The microcomputer system, whether purchased new or previously used, shall be installed in the materials field laboratory.

At the time of installation, the Contractor shall ensure that the system is fully operational and meets all Department requirements. All software listed above shall be installed by the Contractor and maintained in the materials field laboratory. The Contractor shall configure the software to operate with the hardware provided. Any accessories for the microcomputer shall be compatible with the microcomputer.

The Contractor will not be permitted to use this microcomputer system at any time. It is being supplied solely for the Department's use.

The Contractor shall forward all manuals, instructions, software, and literature received with the microcomputer system to the Resident Engineer. The Contractor is responsible for maintaining the microcomputer system in good working condition. Any part of the microcomputer system that becomes inoperable or defective, during the duration of the construction project, shall be replaced by the Contractor within 48 hours.

The microcomputer system (after the project data has been erased from the hard drive by the Department), manuals, instructions, software, and literature shall be removed and retained by the Contractor when no longer required as determined by the Resident Engineer. The data cartridges and data diskettes, will become the property of the State.

Implementation Code   R (ROUTINE)

Changes must be implemented in all applicable Department projects scheduled for Final Design Submission at least one month after the date of the BDC announcement. This will allow designers to make necessary plan, specifications, and estimate/proposal changes without requiring the need for an addenda or postponement of advertisement or receipt of bids.

Recommended By: **Approved By:**

ORIGINAL SIGNED   ORIGINAL SIGNED

Lynn D. Rich   F. Howard Zahn
Director,   Assistant Commissioner,
Quality Management Services   Capital Program Management

LDR:KS:HVP
BDC05S-06.doc