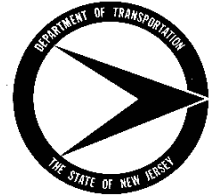


New Jersey Department of Transportation

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



Baseline Document Change Announcement

**Standard Specifications,
Subsections 102.06, 105.09, 105.15, 106.06, 106.07**

BDC00S-13

March 9, 2001

SUBJECT: Revision to the 1996 Standard Specifications as amended by the 1998 Supplemental Specifications, Subsections 102.06 Examination of Contract Documents, 105.09 Cooperation with Utilities, 105.15 Field Office, 106.06 Materials Field Laboratory, 106.07 Curing and Storage Facility

The revision to **Subsection 102.06 Examination of Contract Documents** is made to correct text that directs prospective bidders for Municipal or County projects to the Department when acquiring as-built plans for existing facilities. The Department currently maintains as-built plans for state owned facilities only. Therefore, the following revision is incorporated in Standard Input (SI98 DOT2):

102.06 Examination of Contract Documents and Site of Project.

6. Existing Structures.

THE SECOND SENTENCE IS CHANGED TO:

As built plans of existing structures on state owned facilities are available upon written request through the office of Quality Management Services, Engineering Documents Unit, New Jersey Department of Transportation, 1035 Parkway Avenue, P.O. Box 600, Trenton, New Jersey 08625 (Telephone: 609-530-5587, Fax: 609-530-6626). Plans for existing structures of Municipal owned or County owned facilities should be obtained through the Municipality or County.

The revision to **Subsection 105.09 Cooperation with Utilities** is made to incorporate requirements for safety precautions to be utilized by the Contractor when working in proximity of certain above ground electrical conductors. The Contractor's construction operations shall be in accordance with the provisions of OSHA, including but not limited to 29 CFR 1926.550 and in accordance with NEC. The revision is incorporated in Standard Input (SI98 DOT2) as follows:

105.09 Cooperation with Utilities.

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

The Contractor shall also comply with the States "High Voltage Proximity Act", codified at NJSA 34:6-47.1 to 47.9 inclusive, as amended and supplemented, concerning safety precautions to be taken in the proximity of certain electric conductors installed above ground. In addition, the Contractor's construction operations shall be in accordance with all rules and regulations promulgated by the New Jersey Commissioner of Labor. Such construction operations shall also be in accordance with the provisions of OSHA. The Contractor shall follow all applicable rules and regulations issued thereunder, including but not limited to 29 CFR 1926.550, and also in accordance with NEC. The Department of Labor, Office of Safety Compliance may be contacted at 609-292-2096 for the latest rules, regulations and guidance. Where the

Contractor's construction operations are within the proximity of the regulations cited above, the Contractor shall notify the Office of Safety Compliance describing the project and the construction operations proposed by the Contractor to determine compliance. The Contractor shall provide the Resident Engineer with copies of all correspondence and meetings with the Office of Safety Compliance, and that the proposed methods of construction are in compliance with the regulations. Should the Contractor change the previously approved method of construction operations, the Contractor shall be responsible for notifying the Office of Safety Compliance and again obtaining their approval.

The revisions to **105.15 Field Office, 106.06 Materials Field Laboratory, and 106.07 Curing and Storage Facility** are made in order to update the Construction and Materials Offices.

The revision to **105.15 Field Office** includes increasing quantities of equipment already specified, as well as, updating the hardware and software requirements of the microcomputer equipment. Additional equipment has been included to the listing of items required for the field office, such as, a digital still camera with LCD monitor and the required accessories, office paper shredder and telephone answering machine.

Set up of the Field Offices is revised to include installation and activation of telephone lines, including the cellular phones and pagers, and provisions for copier and fax machine paper.

Telephone Service is revised to consist only of the monthly toll charges and the related taxes for all telephone lines servicing telephone receivers, fax machines, and micro-computer modems in the Field Offices. Telephone Service will also include payment for cellular telephone use charges, for the time used exceeding the quantity of service specified.

Payment for Telephone Service will be made on the actual cost for the monthly land-line toll call charges and related taxes, and for actual cellular phone use charges and related taxes for time used exceeding the quantity of service specified as evidenced by paid bills within 60 days of receipt of the service provider. The Lump Sum proposal amount will be adjusted on the basis of paid bills.

In order to incorporate the additional items and quantities for the field office where appropriate, the items currently listed have been renumbered. The following revisions are incorporated in the Standard Input (SI98 DOT2):

105.15 Field Office.

THE BUREAU OF CONSTRUCTION ENGINEERING WILL DETERMINE THE REQUIRED QUANTITY OF TELEPHONES/LINES/PAGERS AND EQUIPMENT DURING THE INITIAL SUBMISSION REVIEW. THE QUANTITY WILL BE FINALIZED UPON SUBMISSION OF AN ACCEPTABLE "FINAL DESIGN" CONSTRUCTION BAR CHART.

SDG - ROADWAY WILL MODIFY THE FOLLOWING LISTING BASED UPON RECOMMENDATIONS FROM THE BUREAU OF CONSTRUCTION ENGINEERING.

1. Construction Field Offices.

a. Type A.

THE ENTIRE TEXT AFTER THE SIXTH PARAGRAPH IS CHANGED TO:

- (1) ___ multi-line touch-tone telephones and ___ telephone lines for use with the telephones installed as directed and operational in the Field Office and other facilities specified.

- (a) ___ dedicated, operational telephone line(s) for Fax machines (s) and/or microcomputer system(s) modem use installed as directed in the Field Offices specified.
 - (b) ___ portable hand held cellular phone(s). The cellular phone plan shall provide for the anticipated usage of approximately 300 minutes per phone per month. Each of the cellular phones shall have as a minimum the following features:
 - 1) Home rate with no roaming charges within the entire state
 - 2) 832 Channel Compatible
 - 3) Mute Function
 - 4) Back Light Display with Battery Saver
 - 5) Signal Strength Indicator
 - 6) Individual Call Length Timer
 - 7) Full Lock Function
 - 8) 30 Memory Number Feature
 - 9) Low Battery Warning
 - 10) 70 Minute Continuous Use
 - 11) 12 hour Standby Mode
 - 12) Alphanumeric Display
 - 13) Transmission Power 0.6 Watt
 - 14) Passive Repeating Antenna for Vehicle
 - 15) Spare high capacity Battery Pack
 - 16) Home Charging Station
 - 17) Cigarette lighter power adapter /charger
 - 18) AC charging station
 - (c) ___ pager units. The number should be an exchange local to the Project. The units shall have the following features:
 - 1) Lighted Alphanumeric Display
 - 2) Tone and Vibrator Alert
 - 3) High Sensitivity
 - 4) Message Storage
 - 5) Statewide Coverage
 - 6) Exchange Local to Project
 - 7) LCD Readout
 - (d) ___ telephone answering machine
- (2) Two desks with swivel chairs with casters for each room
 - (3) Drafting table with high swivel stool with casters and sufficient drawers for A1 plans, either attached to the table or in cabinet form, for each room
 - (4) Tables and chairs for the use of sixteen personnel
 - (5) One supply cabinet
 - (6) Two plan racks
 - (7) Four fire resistant, four drawer, legal size file cabinets with lock and two keys meeting fire underwriters' approval for not less than a one hour test
 - (8) One Class ABC fire extinguisher, or one Class A and one Class B fire extinguisher, meeting fire underwriters' approval
 - (9) Water cooler with bottled water having both hot and cold water dispensers
 - (10) One electronic calculator, ten key, with trigonometric function and metric/english conversion capability and printout tape
 - (11) One electric typewriter, elite type, with 380 millimeter carriage
 - (12) One compact copying machine, plain paper, with A3, A4 letter, and legal size capacity
 - (13) Plain paper fax machine(s) with a dedicated telephone line, built in telephone, auto dial, re-dial, and auto receive features
 - (14) One digital still camera, with battery charger, extra batteries, 90-millimeter 2HD floppy diskette image storage, LCD monitor, at least 640 X 480 pixel resolution, at least a 10X zoom lens, built in flash, MS Windows compatible, special effects and exposure modes, e-mail mode, one box of 90 millimeter 2HD floppy diskettes per month (10 diskettes per box) and a carrying case
 - (15) First-aid box, which shall be restocked as necessary, containing the following list of supplies:

<u>Quantity</u>	<u>Size</u>	<u>Item</u>
32	19 by 75 mm	Brand sheer bandages
20	25 by 75mm	Brand fabric bandages
4	medium	Non-stick pads
2	50mm	Sof-gauze bandages
2		Oval eye pads
1	1 300mm	Triangle bandage
1	13 by 4 500mm	Hypo-allergenic first-aid tape
10		Antiseptic wipes
1	3.5g	Burn cream, foil packs
1	227g	First-aid cream
1	100 caplets	Tylenol Extra-Strength caplets
1		Scissors
1		Tweezers
1		First-aid guide
1	15 mL	Ophthalmic irrigation solution
1		Contents card
10		Large latex disposable gloves
10	0.33mL	Ammonia inhalants
1	350 mL	Sterile water
1	350 mL	Sterile hydrogen peroxide

(16) Office paper shredder

THE TYPE AND QUANTITY OF COMPUTER EQUIPMENT AND WHETHER OR NOT PRIMAVERA WILL BE REQUIRED WILL BE DETERMINED AT INITIAL SUBMISSION BY THE BUREAU OF CONSTRUCTION ENGINEERING

(17) A microcomputer system compatible with the Department's "ACES" system. The microcomputer system shall include the following:

IF PRIMAVERA IS REQUIRED, INCLUDE TWO BASE COMPUTER SYSTEMS

- (a) _____ base computer system(s) having at minimum:
- 1) Pentium III Processor at 733 MHz or faster, Intel processor with MMX technology, with a 128 MB RAM, 16 MB Video RAM, mouse, mouse pad, 40 GB hard drive, one 48X CD-ROM and one 90-millimeter, 1.44 MB floppy diskette drive installed as the "A" drive
 - 2) 56K baud data/fax modem. If internal, it shall be installed by the Contractor as COM:2. The modem must not utilize Win modem technology and must operate in a DOS and Windows environment (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 network card for each base computer system specified, when more than one base computer is specified
 - 4) One Fast Ethernet Hub Switch with appropriate number of ports and cables. (e.g., 3COM 100 Hub)
 - 5) One dedicated telephone line to be used in conjunction with the microcomputer modem
 - 6) 483 millimeter or larger Super VGA color monitor having a dot pitch of 0.28 with anti-glare screen and tilt/swivel capabilities
 - 7) 100 Megabyte Zip Drive internal or external with backup software for MS-Windows and DOS, and twenty 100 Megabyte formatted data cartridges corresponding to the tape drive size (e.g., Iomega Zip Drive)
 - 8) (UPS) - OMNI 1000 or approved equal (e.g., APC-1000 - American Power Corporation)

- 9) Surge protector for the entire computer work station to be used in conjunction with the UPS (e.g., Zero Surge Power, Inc. - Point of Use - 2R-15 amp/120 volts)
 - 10) Static mat, floor type, 1.2 by 1.5 meters or larger with grounding capabilities
 - 11) Computer work station, printer stand, and/or table having both appropriate surface and chair height
 - 12) Five boxes of 90-millimeter floppy diskettes that match the drive density of the 1.44 MB floppy diskette drive (ten per box).
 - 13) One floppy diskette holder (holds 50, 90-millimeter floppy diskettes), and dust covers for the microcomputer, monitor, keyboard, and printer
 - 14) One head cleaner kit for 90-millimeter floppy diskette drive
- (b) One base printer having at minimum:
- 1) Laser printer having HP PCL 5 emulation, with a 16 Megabyte expanded memory, appropriate printer cable, and legal size tray (e.g. Xerox - 107, Opra E, HP -1100, or HP-2200)
 - 2) One printer toner cartridge 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 three 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 or 90-millimeter floppy diskettes with documentation, including:
- 1) Microsoft Windows, latest version with future upgrades
 - 2) Microsoft Office Professional, latest version. Software package should contain the following: word processor, spreadsheet, and database
 - 3) Helix Nuts and Bolts Advanced Utilities for Windows, latest version, or compatible software package
 - 4) Anti-Virus software, latest version with monthly updates (e.g., McAfee Anti Virus, or Dr. Solomon's)
 - 5) Visio Professional Graphics Software for Windows, latest version

INSERT THE FOLLOWING WITH PRIMAVERA ONLY

- (d) ___ base printer(s) for Primavera having at minimum:
- 1) Color Inkjet printer of current technology, with appropriate printer cable
 - 2) Ink cartridge replacements, one of each color, 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 three months for the duration of the construction project
- (e) ___ Primavera Project Planner for Windows, latest version

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

The microcomputer system shall be installed in the field office. 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 field office. 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, manuals, instructions, software, and literature shall be removed and retained by the Contractor when no longer required as determined by the Resident Engineer, except for the data cartridges and data diskettes, which will become the property of the State.

The following additional equipment shall be furnished by the Contractor for the exclusive use of the Resident Engineer. This equipment shall conform to the applicable ASTM designation, when appropriate, and be in good working condition. The Contractor shall repair or replace damaged equipment throughout the duration of the Contract. The equipment shall become the property of the Contractor after Acceptance:

EQUIPMENT WILL BE DETERMINED ON AN INDIVIDUAL PROJECT BASIS BY THE BUREAU OF
CONSTRUCTION ENGINEERING. SDG-ROADWAY WILL INSERT THE LIST OF EQUIPMENT.
(EXAMPLE ITEM, METRIC RULER).

IF THE DESIGNER DETERMINES "SPECIAL" OFFICE EQUIPMENT IS REQUIRED FOR THE
PROJECT, THE DESIGNER MUST CONTACT THE BUREAU OF CONSTRUCTION
ENGINEERING FOR APPROVAL PRIOR TO LISTING THE ITEM(S) BELOW:
(EXAMPLE ITEM: RADIO STATION)

IF VIDEO EQUIPMENT IS REQUIRED, INSERT THE FOLLOWING:

- (18)___ TV/VCR (Video Cassette Recorder) Combo with: VCR with 4 video heads, crystal-clear-slow-motion, still frame, and frame advance, and index search.
- (19)___ video camcorder with video tripod, extra battery, battery charger, capability to play video tape on standard VCR Player, and one blank video cassette tape per month.

The Contractor shall not be responsible for the replacement of equipment that is lost or damaged due to misuse.

f. Type F.
THE ENTIRE SUBPART IS CHANGED TO:

Type F field office shall conform to the requirements for Type A except that it shall have a floor area of not less than 98 square meters and shall be divided into five communicating rooms, two with a floor area of not less than 28 square meters each and three with a floor area of not less than 14 square meters each, and equipped with tables and chairs for the use of 28 personnel, four additional fire resistant file cabinets as per part (7) and two additional calculators as per part (11) specified under Type A Construction field office.

THE FOURTH AND FIFTH PARAGRAPHS ARE CHANGED TO:

Setting up the field office or other facilities shall consist of furnishing the office complete with furniture, bookcases, wall clocks, equipment, electricity, water, heating, air-conditioning, installation and activation of telephone lines, telephone sets (touch tone and cellular), pager units, sanitary facilities, and lavatory supplies.

Maintenance of the construction and survey field office or other facilities, for the time required, shall consist of maintaining the furniture, equipment, and utilities, which include the cost of telephone fixed monthly service charges, cellular phone fixed monthly service charges for the plan specified and pager service, providing lavatory supplies, janitorial and waste disposal services weekly, restocking of the first aid box, snow removal services, and one carton of legal and letter sized paper every three months, and one carton of A3 size paper for the duration of the Project for the copier and fax machine. Maintenance of the field office shall also include the monthly rent. The fax machine, telephone sets, cellular telephone sets, pager units, computer and/or related equipment or accessories shall be repaired or replaced within 24 hours of notification of becoming inoperable or defective.

THE EIGHTH PARAGRAPH IS CHANGED TO:

Telephone service shall consist only of monthly toll call charges and related taxes for all telephone lines servicing telephone receivers, fax machines and micro-computer modems in the Field Offices(s) or other facilities specified. The telephone service will also include payment for the cellular phone use charges, for time used, exceeding the quantity of the service specified.

Payment for telephone service will be made on the actual cost for the monthly land-line toll call charges and related taxes, as evidenced by paid bills from the telephone company submitted within 60 days of receipt from the service provider. Payment will also be made for actual cellular phone use charges and related taxes for time used exceeding the quantity of the service specified as evidenced by paid bills from the service provider, submitted within 60 days of receipt from the service provider. The Lump Sum amount provided in the proposal is an estimated amount and will be adjusted on the basis of paid bills.

The revisions to **106.06 Materials Field Laboratory** include increasing the quantities of equipment already specified, increasing floor space area, along with the addition of new equipment, such as, cellular phones, drafting table with stool, plain paper fax machine, and a light duty oil-less air compressor with accessories. Set up of the Materials Field Laboratory is revised to include the installation and activation of telephone lines, cellular and pager. Additionally, the maintenance of the materials field laboratory shall include the cost of telephone fixed monthly service charges, cellular phone and pager services for the plans specified.

The revisions are incorporated in the Standard Input (SI98 DOT2) as follows:

106.06 Materials Field Laboratory.

THE FIRST SENTENCE OF THE FIFTH PARAGRAPH IS CHANGED TO:

The laboratory shall be of weatherproof construction located on or in the immediate vicinity of the Project, having a floor area of not less than 42 square meters and a ceiling height of not less than 2.3 meters.

1. Laboratory.

THE ENTIRE PART IS CHANGED TO:

- a. One or more telephones, installed as directed
- b. Two portable hand held cellular phones, the cellular phone plan shall provide for the anticipated usage of approximately 300 minutes per phone per month. Each of the cellular phones shall have a s a minimum the following features:
 - (1) Home rate with no roaming charges within the entire state
 - (2) 832 Channel Compatible
 - (3) Mute Function
 - (4) Back Light Display with Battery Saver
 - (5) Signal Strength Indicator
 - (6) Individual Call Length Timer
 - (7) Full Lock Function

- (8) 30 Memory Number Feature
 - (9) Low Battery Warning
 - (10) 70 Minute Continuous Use
 - (11) 12 hour Standby Mode
 - (12) Alphanumeric Display
 - (13) Transmission Power 0.6 Watt
 - (14) Passive Repeating Antenna for Vehicle
 - (15) Spare high capacity Battery Pack
 - (16) Home Charging Station
 - (17) Cigarette lighter power adapter /charger
 - (18) Ac charging station
- c. Telephone answering machine
 - d. Four desks and eight chairs
 - e. Work bench, not less than 0.75 by 3 meters, and two stools
 - f. Shelves and supply cabinets
 - g. Drafting table with high swivel stool with casters
 - h. Plan rack of sufficient size to hold 15 sets of plans
 - i. One fire-resistant, four-drawer, legal-size file cabinet with lock and two keys meeting fire underwriters' approval for not less than a one-hour test
 - j. One Class ABC fire extinguisher, or one Class A and one Class B fire extinguisher, meeting fire underwriters' approval
 - k. Water cooler supplied with bottled water having both hot and cold water dispensers
 - l. One electronic calculator with printout tape
 - m. One electric typewriter, elite type, with 380-millimeter carriage
 - n. One compact copying machine, plain paper, with A4, letter, and legal size capacity
 - o. Plain paper fax machine with a dedicated telephone line, built-in telephone, auto dial, re-dial, and auto-receive features
 - p. One 300-millimeter diameter, minimum, exhaust fan or other means of removing excess heat, dust, and fumes
 - q. Minimum of four, three-prong electrical outlets, having a minimum of two 20-ampere, 120-volt circuits
 - r. Two gas stoves, each having at least two burners
 - s. Commercially bottled gas or gas supplied by a public utility company with at least two connections located as directed
 - t. Display area, approximately 0.9 by 1.2 meters, for mounting control charts and a wall clock
 - u. Sink with hot and cold running water, having adequate pressure, and equipped with two drain-boards and a drain-disposal system capable of handling elutriable material
 - v. Metal stand to hold sieves used in washing elutriable material
 - w. One wheelbarrow
 - x. Shovels, scoops, and pick for sampling soil aggregates and concrete.
 - y. Equipment and testing apparatus conforming to that listed in AASHTO T 11 (including a mechanical washing machine), T 23, T 27, T 99, T 119, T 121, T 141, T 152, T 180, and T 248. At the direction of the Engineer, three units or the number specified, and testing apparatus, will be required to satisfy the inspection and testing frequency anticipated. In addition, all scales shall be electronic, except that required for AASHTO T 121, which shall be portable.
 - z. Equipment and test apparatus conforming to that listed in AASHTO T 238 and T 239 when the Pay Item "Nuclear Density Gauge" appears in the Proposal. When the Pay Item "Nuclear Density Gauge" is listed in the Proposal, the Contractor shall provide for the Department's exclusive use and for the duration of the Project a soils/moisture nuclear density gauge calibrated to the manufacturer's specifications, and with the following minimum features/capabilities:
 - (1) Conformance to AASHTO T 238
 - (2) Backscatter and direct transmission modes
 - (3) 200-millimeter minimum length of probe
 - (4) Automatic warm-up and self test
 - (5) Automatic data storage and data transfer features, including an RS232 interface cable specifically configured to transfer data from the density gauge to the microcomputer system and with data communication software
 - (6) Count times of 0.25, 1.0, and 4.0 minutes
 - (7) 3.36 kilograms per cubic meter dry density precision in direct transmission at 1 922 kilograms per cubic meter and at 1.0 minute, with plus or minus 0.3 percent accuracy

- (8) 5.13 kilograms per cubic meter moisture precision at 1.0 minute, with plus or minus 2.0 percent accuracy
- (9) Rechargeable batteries and re-charger
- (10) Type A certified package. The gauge provided shall be either:
 - a) Purchased by the Contractor under the Contractor's United States Nuclear Regulatory Commission (USNRC) License, or
 - b) Leased from the gauge manufacturer on the Department's USNRC License. Gauges shall not be purchased by the Contractor on the Department's USNRC License. All calibration and servicing of the gauge, other than routine wipe tests, and all shipping costs shall be the Contractor's responsibility.
- aa. Microcomputer work station, hardware and software requirements as indicated. The microcomputer system shall include the following:
 - (1) One base computer system(s) having at minimum:
 - a) Pentium III Processor at 733 MHz or faster, Intel processor with MMX technology, with 128 MB RAM, 16 MB Video RAM, mouse, mouse pad, 40 GB hard drive, one 48X CD-ROM, and one 90-millimeter, 1.44 MB floppy diskette drive installed as the "A" drive
 - b) 56K baud data/fax modem. If internal, it shall be installed by the Contractor as COM:2. The modem must not utilize Win modem technology and must operate in a DOS and Windows environment (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 dedicated telephone line to be used in conjunction with the microcomputer modem
 - d) 483 millimeter or larger Super VGA color monitor having a dot pitch of 0.28 or better, with anti-glare screen, and tilt/swivel capabilities
 - e) 100 Megabyte Zip Drive internal or external with backup software for MS-Windows and DOS, and twenty 100 Megabyte formatted data cartridges corresponding to the tape drive size (e.g., Iomega Zip Drive
 - f) (UPS) - OMNI 1000 or approved equal (e.g., APC-1000 - American Power Corporation)
 - g) Surge protector for the entire computer work station to be used in conjunction with the UPS (e.g., Zero Surge Power, Inc. - Point of Use - 2R-15 amp/120 volts)
 - h) Static mat, floor type, 1.2 by 1.5 meters or larger with grounding capabilities
 - i) Computer work station, printer stand, and/or table having both appropriate surface and chair height
 - j) Five boxes of 90-millimeter floppy diskettes that match the drive density of the 1.44 MB floppy diskette drive (ten per box)
 - k) One floppy diskette holder (holds 50, 90-millimeter floppy diskettes), and dust covers for the microcomputer, monitor, keyboard, and printer
 - l) One head cleaner kit for 90-millimeter floppy diskette drive
 - (2) One base printer having at minimum:
 - a) Laser printer having HP PCL 5 emulation, with a 16 Megabyte expanded memory, appropriate printer cable, and legal size tray (e.g., Xerox - 107, Optra E, HP -1100, or HP-2200)
 - b) One printer toner cartridge 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 three 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 or 90-millimeter floppy diskettes with documentation, including:
 - a) Microsoft Windows, latest version with future upgrades

- b) Microsoft Office Professional latest version. Software package should contain the following: word processor, spreadsheet, and database
- c) Helix Nuts and Bolts Advanced Utilities for Windows, latest version, or compatible software package
- d) Anti-Virus software, latest version with monthly updates (e.g., McAfee Anti Virus, or Dr. Solomon's)
- e) Visio Professional Graphics Software for Windows, latest version

Hardware and software shall be acceptable to the Resident Engineer prior to purchase/installation. All software shall be compatible with the computer's operating system.

The microcomputer system 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, manuals, instructions, software, and literature shall be removed and retained by the Contractor when no longer required as determined by the Resident Engineer, except for the data cartridges and data diskettes, which will become the property of the State.

- bb. First aid box, which shall be restocked as necessary, containing the following supplies:

<u>Quantity</u>	<u>Size</u>	<u>Item</u>
32	19 by 75 mm	Brand sheer bandages
20	25 by 75 mm	Brand fabric bandages
4	Medium	Non-stick pads
2	50 mm	Sof-gauze bandages
2		Oval eye pads
1	1300 mm	Triangular bandage
1	13 by 4500 mm	Hypo-allergenic first-aid tape
10		Antiseptic wipes
1	3.5 g	Burn cream, foil pack
1	227 g	First-aid cream
1	100 caplets	Tylenol Extra-Strength caplets
1		Scissors
1		Tweezers
1		First-aid guide
1	15 mL	Ophthalmic irrigation solution
1		Contents cards
10		Disposable gloves
10	0.33 mL	Ammonia inhalants

- cc. Hood enclosed on three sides, top, and bottom, of such size to enclose the operations of drying and weighing a recycled concrete aggregate sample, as well as other operations in which a vapor or gas is emitted. The hood shall be designed and constructed in such a manner that any operation involving testing within the hood does not require the insertion of any portion of the tester's body, other than hands and arms, and shall contain an exhaust system which shall be capable of exhausting air to the outside at 30 meters per minute, linear velocity, based upon an interior hood opening measuring 0.9 by 0.9 meter, and shall have an exhaust fan rated at 38 to 56 liters per second.
- dd. A light duty oil-less air compressor listed by UL with a 9.5-liter storage tank, a start/stop switch - 650 kilopascals/860 kilopascals, a 115-volt universal motor, an ASME safety valve, and a 7.5-meter air hose, equipped with a Quick-Change Blow Gun Kit and Nozzle Kit consisting of a high-flow safety nozzle, a 150-millimeter extension safety nozzle, a rubber tip nozzle, a needle tip nozzle, and an air screen safety nozzle.

2. Enclosure.

THE FIRST SENTENCE IS CHANGED TO:

A weathertight room or enclosure shall be adjacent to the laboratory, capable of being secured, with concrete floor area of not less than 55 square meters and ceiling height of not less than 2.3 meters.

THE THIRD PARAGRAPH IS CHANGED TO:

Located in the enclosure shall be two sound dampening and dustproof cabinets constructed of at least 20-millimeter plywood or other suitable material and of sufficient size to house a large mechanical sample shaker and a small mechanical sieve shaker.

THE FIRST SENTENCE OF THE FOURTH PARAGRAPH IS CHANGED TO:

Located in the enclosure, on an outside wall, shall be a separate cabinet for the purpose of housing and storing a nuclear density gauge.

THE SEVENTH PARAGRAPH IS CHANGED TO:

Setting up the materials field laboratory shall consist of furnishing the laboratory and enclosure complete with furniture, equipment, electricity, water, heating, air-conditioning, installation and activation of telephone lines, telephone sets (touch tone and cellular), pager units, sanitary facilities, and lavatory supplies.

THE EIGHTH PARAGRAPH IS CHANGED TO:

Maintenance of the materials field laboratory, for the time required, shall consist of maintaining the furniture, equipment, and utilities, which includes the cost of telephone fixed monthly service charges, cellular phone fixed monthly service charges for the plan specified and pager services, providing lavatory supplies, janitorial and waste disposal services weekly, restocking of the first aid box, and snow removal services. Maintenance of the materials field laboratory shall also include monthly rent.

The revision to **106.07 Curing and Storage Facility** includes increasing the quantities of equipment already specified, increasing floor space area, along with the addition of new equipment, such as, telephone answering machine, display area, water cooler, first aid kit, electronic calculator, plain paper fax machines, cellular phones, cabinets, work bench, and a light duty oil-less air compressor with accessories. The revisions are incorporated in the Standard Input (SI98DOT2) as follows:

106.07 Curing And Storage Facility.

THE FIRST SENTENCE OF THE FOURTH PARAGRAPH IS CHANGED TO:

The enclosure for the curing and storage facility shall be capable of maintaining a curing temperature between 16 and 27 degrees C throughout the entire facility and shall have a concrete floor area of not less than 28 square meters and a ceiling height of not less than 2.3 meters.

THE FOLLOWING CHANGES ARE MADE TO THE FIFTH PARAGRAPH:

- 3. Telephone answering machine
- 6. Display area, approximately 0.9 by 1.2 meters, for mounting control charts and a wall clock
- 7. Two desks and four armed chairs with casters
- 8. Water cooler with bottled water having both hot and cold water dispensers
- 11. Equipment and testing apparatus conforming to that listed in AASHTO T 23, T 119, T 141, and T 152. Door and windows shall be equipped with adequate locks, and all keys shall be in the possession of the Engineer
- 13. First aid box containing the following list of supplies:

<u>Quantity</u>	<u>Size</u>	<u>Item</u>
32	19 by 75 mm	Brand sheer bandages
20	25 by 75 mm	Brand fabric bandages
4	Medium	Non-stick pads
2	50 mm	Sof-gauze bandages

2		Oval eye pads
1	1 300 mm	Triangular bandage
1	13 by 4500 mm	Hypo-allergenic first-aid tape
10		Antiseptic wipes
1	3.5 g	Burn cream, foil pack
1	227 g	First-aid cream
1	100 caplets	Tylenol Extra-Strength caplets
1		Scissors
1		Tweezers
1		First-aid guide
1	15 mL	Ophthalmic irrigation solution
1		Contents cards
10		Disposable gloves
10	0.33 mL	Ammonia inhalants

14. One electronic calculator with printout tape
15. Plain paper fax machine with a dedicated telephone line, built in telephone, auto dial, re-dial, and auto-receive features
16. One fire resistant, four-drawer, legal size file cabinet with lock and two keys meeting fire underwriters' approval for not less than a one hour test
17. Work bench, not less than 0.75 by 3 meters, and two stools
18. Two portable hand held cellular phone(s). The cellular phone plan shall provide for the anticipated usage of approximately 300 minutes per phone per month. Each of the cellular phones shall have as a minimum the following features:
 - a. Home rate with no roaming charges within the entire state
 - b. 832 channel compatible
 - c. Mute function
 - d. Black light display with battery saver
 - e. Signal strength indicator
 - f. Individual call length timer
 - g. Full lock function
 - h. 30 memory number feature
 - i. Low battery warning
 - j. 70 minute continuous use
 - k. 12 hour standby mode
 - l. Alphanumeric display
 - m. Transmission power 0.6 watt
 - n. Passive repeating antenna for vehicle
 - o. Spare high capacity battery pack
 - p. Home charging station
 - q. Cigarette lighter power adapter/charger
 - r. AC charging station.
19. A light duty oil-less air compressor listed UL, with a 9.5 liter storage tank, a start/stop switch 650 kilopascals/860 kilopascals, a 115-volt universal motor, an ASME safety valve and a 7.5 meter air hose, equipped with a Quick-Change Blow Gun Kit and Nozzle Kit consisting of a high-flow safety nozzle, a 150-millimeter extension safety nozzle, a rubber tip nozzle, a needle tip nozzle, and an air screen safety nozzle

Instruction to Designers

The revisions shall be included in projects scheduled for **Final Design submission after March 23, 2001**. The revision will be incorporated by the respective Specification Development Group responsible for preparing the Special Provisions, therefore, designers need not insert these changes in the Standard Input.

Distribution and Announcement Access Information

This announcement is being distributed electronically to our in-house staff and various public agencies based on our Standard Specifications distribution list maintained by the Engineering Documents Unit.

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<http://www.state.nj.us/transportation/cpm/BaselineDocuments/bdcdownloads.htm>.

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