

FILING OF ADMINISTRATIVE REGULATIONS
BY THE
DEPARTMENT OF HIGHWAYS

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SERIES III

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*obsolete
valid Jan. 1, 1983
to June 11, 1985*

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WEST VIRGINIA ADMINISTRATIVE REGULATIONS
COMMISSIONER OF HIGHWAYS

CHAPTER 17-2A
SERIES III
(1982)

Subject: Construction and Reconstruction of State Roads

Section 1. General

1.01. Scope. -- These rules and regulations relate to the construction and reconstruction of state roads.

1.02. Authority. -- These rules and regulations are issued under authority of West Virginia Code, Chapter 17, Article 2A, Section 8 (1) and (2) and Chapter 17, Article 4, Section 19.

1.03. Filing Date. -- These rules and regulations were filed with the Office of the Secretary of State on the 16th day of December, 1982.

1.04. Effective Date. -- These rules and regulations are promulgated on the 16th day of December, 1982, and become effective on the 1st day of January, 1983.

Section 2. Plans and Specifications for the Construction and Reconstruction of State Roads

2.01. General Purposes. -- This series of regulations is promulgated pursuant to Chapter 29A, Article 1, Section 2(c) to provide interpretative rules to make specific the Procedures in

relation to the construction and reconstruction of roads and bridges and furnishing of materials and supplies to the Commissioner and to govern contracts pertaining thereto pursuant to the provisions of Chapter 17, Article 4, Section 19, of the Code of West Virginia, 1931, as amended.

2.02. Definitions. --

(1) Abbreviations - Whenever the following abbreviation is used in the Specifications, Plans or Contract Documents, it is to be construed the same as the respective expression represented:

(FHWA) - Federal Highway Administration,
Department of Transportation

(2) Advertisement - The public announcement, as required by law, inviting bids for work to be performed, or material to be furnished.

(3) Award - The acceptance by the Department of a bid.

(4) Bidder - An individual, firm, corporation, or combination thereof, acting directly or through a duly authorized representative, and prequalified according to the requirements and provisions of the Department, submitting a bid for the proposed work.

(5) Calendar Day - Every day shown on the calendar.

(6) Change Order - A general term referring to force account work orders, supplemental agreements, and work orders of the Contract.

(7) City, Town or District - A subdivision of the county used to designate or identify the location of the proposed work.

(8) Commissioner - Commissioner of the West Virginia Department of Highways.

(9) Construction Limits - The physical limits of construction as described by designated lines drawn on the Plans.

(10) Contract - The written agreement between the Department and the Contractor covering the performance of the work; the furnishing of labor, equipment and materials, and the basis of payment. The Contract includes the invitation for bids, proposal, contract form, contract bond, specifications, supplemental specifications, special provisions, plans, notice to proceed, and any change orders that are required to complete the construction of the work in an acceptable manner, including authorized extensions thereof, all of which constitute one instrument.

(11) Contract Bond - The approved form of security, executed by the Contractor and his surety, guaranteeing completion of the work and payment of all legal debts pertaining to the construction of the project.

(12) Contract Period - The period from the specified date of commencement of work to the specified date of completion of the work, both dates inclusive, as is specified in the Contract.

(13) Contract Time - The number of working or calendar days specified in the proposal, indicating the time allowed for the completion of the work contemplated, including authorized time extensions. In case a calendar date of completion is specified in the proposal, the work shall be complete by that date or any approved extensions thereof.

(14) Contractor - The individual, firm or corporation, party of the second part to the Contract, acting directly or through his or their agents, employees, or subcontractors.

(15) Control of Access, Full - The condition where the right of owners or occupants of abutting land or other persons to access, light, air or view in connection with a highway is fully controlled by public authority. The authority to control access is exercised to give preference to through traffic by providing access connections with selected public roads only and by prohibiting crossings at grade or direct driveway connections.

(16) Control of Access, Partial - The condition where the right of owners or occupants of abutting land or other persons to access, light, air or view in connection with

a highway is partially controlled by public authority. The authority to control access is exercised to give preference to through traffic to a degree that, in addition to access connections with selected public roads, there may be some crossings at grade and some private driveway connections.

(17) County - The County or Counties of West Virginia in which the work is to be done.

(18) Department - West Virginia Department of Highways.

(19) Employee - Any person working on behalf of the project who is under the direction of the contractor or any subcontractor.

(20) Engineer - The State Highway Engineer of the Department, or his authorized representative, limited by the scope of duties assigned.

(21) Equipment - All machinery and equipment, together with the necessary supplies for upkeep and maintenance, and also tools and apparatus necessary for the proper construction and acceptable completion of the work.

(22) Estimates - The official written itemization of the value of materials in place and work performed.

(23) Extra Work - An item of work not provided for in the Contract as awarded, but found essential to the satisfactory completion of the Contract within its intended scope. See section 5.03.

(24) Force Account Work Order - An order signed by the Engineer or his authorized representative, directing additional work to be performed, with payments based on labor, materials used, equipment cost, plus specified percentages.

(25) Highway - The entire improvement comprising the entire right-of-way. See (42).

(26) Holidays - Official holidays are New Year's Day, Martin Luther King, Jr. Day, Lincoln's Birthday, Washington's Birthday, Memorial Day, West Virginia Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, Christmas Day, and any day in which an election (Primary or General) is held throughout the State and such other days as the President, Governor, or other duly constituted authority shall proclaim to be holidays. When a holiday falls on a Sunday, the following Monday shall be observed in lieu thereof. When a holiday falls on a Saturday, the previous Friday shall be observed in lieu thereof. When Christmas or New Year's Day occurs on Tuesday, Wednesday, Thursday, or Friday, the last half of the scheduled workday immediately preceding the holiday will be given as time off.

(27) Inspector - The Engineer's authorized representative assigned to make any or all necessary inspection of the work as further described in section 6.10.

(28) Instructions to Bidders - The notice to Contractors containing all necessary information as to

provisions, requirements, date, location, and time of submitting Proposals.

(29) Invitation of Bids - The advertisement for bids, as required by law, inviting bids for work to be performed or material to be furnished.

(30) Item - A specifically described unit of work for which a price is provided in the Contract.

(31) Materials - Any substances specified for use in the construction of the project and its appurtenances.

(32) Notice to Proceed - Written notice to the Contractor to proceed with the contract work including, when applicable, the date of beginning of contract time.

(33) Plans - The approved Plans, profiles, typical sections, cross-sections, working drawings, standard drawings and supplemental drawings, or exact reproductions thereof, which show the location, character, dimensions and details of the work to be done.

(34) Pre-Construction Conference - A conference normally called by the District Engineer, following award and prior to start of construction, to be attended by Department officials and by the responsible officials of the Contractor and other affected parties.

(35) Pre-Qualification Statement - The approved form or forms upon which Contractors shall furnish information

as to their ability to perform work, their experience, manpower, equipment and financial condition.

(36) Project - The specific section of the highway, together with all appurtenances and construction to be performed thereon, under the Contract.

(37) Project Engineer or Project Supervisor - The representative of the Engineer on a project. See section 6.09.

(38) Proposal - The offer of a bidder, on the prescribed form, to perform the work and to furnish the labor and material at the prices quoted.

(39) Proposal Form - The approved form on which the Department requires a bid to be prepared and submitted for the work.

(40) Proposal Guaranty - The security furnished with a bid to guarantee that the bidder will enter into the contract if his bid is accepted.

(41) Right-Of-Way - A general term denoting land, property, or interest therein, usually in a strip, acquired for or devoted to a highway.

(42) Road - A general term denoting a public way for purposes of vehicular travel, including the entire area within the right-of-way, or needed for the maintenance of travel. See West Virginia Code, Chapter 17, Article 1, Section 3.

(43) Seasonal Restrictions - Limitations imposed on the work which prohibit the Contractor from performing certain types of work during specific seasons of the year.

(44) Special Provisions - Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to an individual project.

(45) Specifications - A general term applied to all directions, provisions, and requirements pertaining to performance of the work.

(46) State - The State of West Virginia.

(47) Street - A general term denoting a public way for purposes of vehicular travel, including the entire area within the right-of-way.

(48) Structures - Bridges, culverts, catch basins, drop inlets, retaining walls, cribbing, manholes, endwalls, buildings, sewers, service pipes, underdrains, foundation drains, and other features which may be encountered in the work and not otherwise classed herein.

(49) Subcontractor - An individual, firm, or corporation to whom the Contractor sublets part of the Contract.

(50) Superintendent - The Contractor's authorized representative in responsible charge of the work.

(51) Supplemental Agreement - A modification of the Contract covering changes in the Plans or quantities, or both,

and establishing the basis of payment and time adjustment for the work necessitated by reason of the modification, requiring the signature of the Commissioner, the Contractor, and the Surety, or their authorized representatives.

(52) Supplemental Specifications - Additions to and revisions of the Standard Specifications that are approved subsequent to issuance of the Standard Specification book. Supplemental Specifications prevail over Standard Specifications when in conflict therewith.

(53) Surety - The corporation, partnership, or individual, other than the Contractor, executing a bond furnished by the Contractor.

(54) Work - Work shall mean the furnishing of all labor, materials, equipment, and other incidentals necessary or convenient to the successful completion of the project and the carrying out of all duties and obligations imposed by the Contract.

(55) Working Day - Every day shown on the calendar, exclusive of Saturdays, Sundays, and Holidays as set forth in (26), on which weather and other conditions not under the control of the Contractor will permit construction operations to proceed for a minimum of five hours with normal working forces engaged in performing the controlling item or items of work.

(56) Working Drawings - Stress sheets, shop drawings, erection plans, falsework plans, framework plans, cofferdam plans, bending diagrams for reinforcing steel, or any other supplemental plans or similar data which the Contractor is required to submit to the Engineer for approval.

(57) Work Order - A written order, signed by the Engineer, requiring certain performance by the Contractor without negotiation. Such order shall not change quantities of major items beyond the 25 percent or \$10,000 limitations, shall not create new items, nor make revisions to item prices.

(58) Interpretations - In order to avoid cumbersome and confusing repetition of expressions in the Specifications, it is provided that whenever anything is, or is to be done, if, as, or, when, or where "contemplated, required, determined, directed, specified, authorized, ordered, given, designated, indicated, considered necessary, deemed necessary, permitted, reserved, suspended, established, approval, approved, disapproved, acceptable, unacceptable, suitable, accepted, satisfactory, unsatisfactory, sufficient, insufficient, rejected, or condemned," it shall be understood as if the expression were followed by the words "by the Engineer" or "to the Engineer".

2.03. Preparation of Plans and Specifications. -- The Commissioner of Highways, either through his staff employees or through consultants, shall prepare all plans and specifications

for the construction and reconstruction of state roads. No such plans or specifications shall be used by any contractor or by any employee or agent of the State of West Virginia for the purpose of constructing, altering, or repairing any state road until such plans or specifications have been approved in writing by the Commissioner of Highways or his authorized representative.

(1) Amendments to Plans and Specifications - The plans and specifications for any state road project may be altered at any time by the Commissioner of Highways if he believes the alteration is necessary or desirable for the benefit of the citizens of this state.

2.04. Purpose of Plans and Specifications. -- The purpose of plans and specifications for the construction or reconstruction of any road is to provide the contractor or any other person undertaking such work with detailed directions regarding the work to be done, the manner in which or the method by which such work is to be done, and the materials and equipment which are to be used in such work. The bidder is required to examine carefully the plans, specifications, special provisions, supplemental specifications, contract forms, and the site of the work contemplated. The submission of a bid shall be considered prima facie evidence that the bidder has made such examination and has judged and satisfied himself as to the character, quality and quantity of work to be

performed and material to be furnished under the contract. Accordingly, it is expected that the contractor, or other person who undertakes such work, will follow the plans and specifications in each and every detail.

2.05. Copies of Plans and Specifications. -- Three complete sets of plans, profile, cross-sections and contract proposal will be furnished upon request to the contractor who is undertaking the work. Additional sets may be obtained by writing to the Commissioner, and upon payment of the following charges:

- (1) Plan and Profile ----- per set -- \$10.00
- (2) Cross-Sections ----- per set -- \$50.00
- (3) Contract Proposal ----- per each - \$ 5.00
- (4) Standard Specifications -- per each - \$10.00

2.06. Adoption of Standard Specifications. -- The Commissioner of Highways may prepare standard specifications to be followed in the construction process of any state road project unless specific provisions of another nature are set forth in the contract. The standard specifications and all future amendments and supplements thereto will be filed with the Executive Secretary-Planning Manager of the West Virginia Department of Highways and will be effective from the date of issuance. Although these general or standard specifications may be amended or altered by the Commissioner of Highways at any time, the specifications in effect at the time of the

execution of the contract as referenced in the contract documents shall serve as the basis for all transactions between the contractor and the Commissioner of Highways concerning the compensation due the contractor.

Section 3. Bidding Requirements and Conditions

3.01. Prequalification of Bidders. -- All bidders on projects let to contract by the Department shall be prequalified as provided for by rules or regulations, or both, of the Commissioner. A Certificate of Qualification will be issued by the Commissioner fixing the amount of incomplete work a Contractor may have under contract at any one time and the type of work for which the Contractor is qualified.

To obtain a Certificate of Qualification, the Contractor must file a "Contractor's Prequalification Statement" containing the information as required based on the category of work for which prequalification is being requested.

Applications for qualification will be accepted by the Commissioner until 15 calendar days prior to the date set for receiving bids on projects on which the applicant may wish to submit a Proposal. Award of a certificate may be held in abeyance until such time as the Commissioner is able to verify all references and satisfy himself as to the applicant's qualifications.

No Contractor will be issued a Certificate of Qualification until the Department has had adequate time to review and verify the adequacy of the information provided in the "Contractor's Prequalification Statement".

3.02. Contents of Proposal Forms. -- The proposal forms will show the location and description of the proposed work, the approximate estimates of the various quantities of work to be performed, the amount of the proposal guaranty, the number of working days or date on which the work is to be completed, and the date, time and place of opening of proposals. The form will also include any special provisions or requirements not contained in the Standard Specifications. All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered.

The Plans, Specifications, and other documents designated in the proposal form are considered a part of the proposal form whether attached or not attached.

Upon request, the Department will furnish prequalified bidders or their authorized representatives with proposal forms. Proposals issued for informational purposes, available to all interested parties, will be marked "Not Valid for Bidding Purposes" and will not be accepted as a bid from any company.

3.03. Issuance of Proposal Forms. -- Proposal forms, on which the name of the bidder is to be typed or written in ink before issuance, will be issued to Prequalified Contractors only or to their authorized representatives, or to Contractors who have filed on a Department standard form an application for prequalification 15 calendar days prior to the date set for receiving bids on projects on which the applicant desires to bid.

The Department may at its discretion issue to a Contractor a Proposal requiring prequalification in excess of the amount allotted the Contractor provided it considers that this Contractor is particularly fitted by reason of his experience or equipment, or both, to perform work of this type involved in an amount exceeding his prequalification limits and further provided that the prospective bidder furnish the Department with a letter from a reputable Surety advising of their willingness to furnish him a performance bond for the project.

When more than one project is advertised, Proposals will be issued on as many projects as the Contractor requests, providing the contractor is qualified as above for each individual project, but no contracts will be awarded exceeding the permissible limit of the Contractor's prequalification rating except as otherwise provided in section 4.01.

3.04. Interpretation of Approximate Estimates. -- The quantities appearing in the proposal form are approximate only and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted, or for materials furnished in accordance with the Contract. If upon completion of the Construction the actual quantities show either increase or decrease, the unit bid prices offered in the Proposal will prevail except as further provided herein.

3.05. Examination of Plans, Specifications and Site of Work. -- The bidder is required to examine carefully the Plans, Specifications, Supplemental Specifications, contract forms, and the site of the work contemplated. The submission of a bid shall be considered prima facie evidence that the bidder has made such examination and has judged for and satisfied himself as to the character, quality, and quantity of work to be performed and material required to be furnished under the Contract.

3.06. Preparation of Proposal. -- The bidder must submit his Proposal on the form furnished by the Department. The bidder must furnish a unit price or a lump sum price as called for in the Proposal, in numerical figures, for each pay item listed therein, except that in the case of alternates, the bid may be made on only one alternate if so desired. The bidder must also show the products of the respective unit prices and

quantities in numerical figures in the column provided for that purpose and the total amount of the Proposal obtained in adding the products of the items. All figures shall be in ink or typed. In case of discrepancy between the unit price and its extensions, the unit price will govern.

The Proposal must be signed in ink by the bidder or his qualified and authorized agent; by one or more bidders or officers of each firm represented in a joint venture; by one or more officers of a corporation, duly qualified and authorized to act for and on behalf of the corporation; or by all partners or their individually qualified and authorized agents in case of a partnership.

The Proposal must contain the name and post office address of an individual bidder, the name and post office address of each individual or firm represented in a joint venture, the name and business address of a corporation and its corporate officials, or the name and post office address of each member of a partnership.

3.07. Irregular Proposals. -- Proposals will be considered irregular and may be rejected for any of the following reasons:

- i. If the Proposal is on a form other than that furnished by the Department; or if the form is altered or any part thereof is detached.

- ii. If there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the Proposal incomplete, indefinite, or ambiguous as to its meaning.
- iii. If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a Contract pursuant to an award. This does not exclude a bid limiting the maximum gross amount of awards acceptable to any one bidder at any one bid letting, provided that any selection of awards will be made by the Department.
- iv. If the Proposal does not contain a unit price for each item listed, except in the case of authorized alternate bid items.
- v. Failure to return the bid bond on the official form furnished by the Department, unless a certified or cashier's check is provided in lieu thereof in accordance with section 3.08.
- vi. Failure to sign or properly execute the Proposal or bid bond.

3.08. Proposal Guaranty. -- No Proposal will be considered unless accompanied by a guaranty in the form of a

certified or cashier's check, or bid bond, in the amount specified in the Proposal, made payable to the West Virginia Department of Highways. Bid bonds will be accepted only if executed on the official form furnished by the Department, and any Proposal accompanied by a bond executed on a copy, duplicate, or facsimile will be rejected.

3.09. Delivery of Proposals. -- Each Proposal shall be submitted in a special envelope furnished by the Department with the Proposal. In the event of loss of the envelope a similar one of the same general size and shape may be used. The envelope shall be endorsed on the outside "Proposal for the Improvement of the _____ Road or Bridge _____, Project No. _____, County _____, West Virginia," and shall have the name of the bidder thereon. Envelopes shall be addressed to the West Virginia Department of Highways, Charleston, West Virginia, and shall have the name and address of the bidder thereon. Proposals shall be deposited at the proper designated office of the Department prior to the hour set in the Proposal for opening of bids. Proposals received after the time for opening of bids will be returned to the bidder unopened.

3.10. Withdrawal of Proposals. -- At any time prior to the opening of Proposals, bidders may withdraw Proposals already deposited with the Department, provided the request is made in writing or by telegram; provided further that any

bidder may withdraw his bid during the course of reading of bids prior to the actual reading of bids on the project for which the bid is withdrawn; further provided that the requested withdrawal is made in writing in the following form:

"I, the undersigned, of _____, Contractor(s) hereby acknowledge that I have this day withdrawn the sealed bid of _____, Contractor(s) on West Virginia Department of Highways Project No. _____. This sealed bid was withdrawn before the opening and reading of bids on the above numbered project. Date _____."

Contractors who are found to be low bidders on a number of projects of which the total exceeds the Contractor's rating may withdraw, with the approval of the Commissioner, bids on such project or projects as will bring the remaining total to within the limit of the rating. At his discretion, the Commissioner may award contracts for the project on which bids have been so withdrawn to the next lowest qualified bidder.

3.11. Combination Proposals. -- If the Department so elects, Proposals may be issued for projects in combination or separately, so that bids may be submitted either on the combination or on separate units of the combination. The Department reserves the right to make awards on combination bids or separate bids to the best advantage of the Department. No combination bids other than those specifically set up in proposals by the Department will be considered. Separate

Contracts will be written for each individual project included in the combination.

3.12. Public Opening of Proposals. -- Proposals will be opened and read publicly at the time and place indicated in the notice to Contractors. Bidders, their authorized agents, and other interested parties are invited to be present.

3.13. Disqualification of Bidders. -- Either of the following reasons may be considered as being sufficient for the disqualification of a bidder and the rejection of his Proposal or Proposals.

- i. More than one Proposal for the same work from an individual, firm, or corporation under the same or different name.
- ii. Evidence of collusion among bidders. Participants in such collusion will receive no recognition as bidders for any future work of the Department until any such participant shall have been reinstated as a qualified bidder.

3.14. Material Guaranty. -- The successful bidder shall furnish a complete statement of the origin, composition and manufacture of all materials to be used in the construction of the work, together with samples when required. Samples may be subjected to the tests provided for in these Specifications to determine their quality and fitness for the work.

3.15. Free Competitive Bidding Affidavit. -- Prior to the approval of Federal-Aid Contracts, a sworn statement in the form of an affidavit shall be executed by, or on behalf of, the person, firm, association, or corporation to whom such contract is to be awarded. This affidavit must be sworn to before a Notary Public who must affix his seal thereto if outside the State of West Virginia.

The affidavit, with accompanying endorsement and acknowledgement sections, is contained in the contract proposal.

Section 4. Award and Execution of Contract

4.01. Consideration of Proposals. -- After the Proposals are opened and read, they will be compared on the basis of the summation of the products of the approximate quantities shown in the bid schedule by the unit prices. The results of such comparisons will be made available to the public after award of the contract. In the event of discrepancy between unit bid prices and extensions, the unit bid price shall govern.

The right is reserved to reject any or all proposals, to waive technicalities or to advertise for new proposals if, in the judgement of the Commissioner, the best interests of the State will be promoted thereby.

If Proposals for more than one project are issued to a bidder, which projects individually would be within the bidder's qualification established as provided in section 3.01, but a combination of more than one, considering also the work under Contract and incomplete, would be in excess of his qualification, the right is reserved to consider only such Proposal or Proposals, as, in the opinion of the Commissioner, are most advantageous to the Department.

4.02. Award of Contract. -- The Award of Contract, if it be awarded, will be made within 30 calendar days after the opening of Proposals to the lowest prequalified bidder. The Commissioner may, with the agreement of the successful bidder, withhold award for any length of time. The successful bidder will be notified by letter, mailed to the address shown on his Proposal, that his bid has been accepted and that he has been awarded the Contract.

4.03. Cancellation of Award. -- The Department reserves the right to cancel the award of any Contract at any time before the execution of the Contract documents by all parties without any liability against the Department.

4.04. Return of Proposal Guaranty. -- All proposal guaranties, except those of the two lowest bidders, will be returned immediately following the opening and checking of the Proposals. The retained proposal guaranty of the unsuccessful

of the two lowest bidders will be returned within ten 10 days following the award of Contract, and that of the successful bidder will be returned after a satisfactory contract bond has been furnished and the Contract has been executed.

4.05. Requirement of Contract Bond. -- At the time of the execution of the Contract, the successful bidder shall execute and deliver to the Department a good and sufficient surety or collateral bond payable to the State of West Virginia in the amount of 100 percent of the Contract price. As an alternate, the successful bidder may furnish cash bond, U. S. Government Bonds, or West Virginia Road Bonds in the amount of 100 percent of the Contract amount.

4.06. Insurance Requirements. -- The Contractor shall be required, in addition to any other form of insurance or bonds required under the terms of the Contract and Specifications, to procure and maintain during the life of the Contract the following types of insurance in the amounts set forth:

4.07. Contractor's Public Liability and Property Damage Liability Insurance. -- The Contractor shall furnish evidence to the State that, with respect to the operations he performs, he carries (1) regular Contractor's Public Liability Insurance providing for a limit of not less than \$250,000 for all damages arising out of bodily injuries to or death of one person and, subject to that limit for each

person, a total limit of \$500,000 for all damages arising out of bodily injuries to or death of two or more persons in any one accident; and (2) regular Contractor's Property Damage Liability Insurance providing for a limit of not less than \$100,000 for all damages arising out of injury to or destruction of property in any one accident and, subject to that limit per accident, a total (or aggregate) limit of \$500,000 for all damages arising out of injury to or destruction of property during the life of the Contract. The policy shall be written or endorsed to cover the hazards of blasting, operation of mechanical equipment on streets and highways, and collapse.

If any part of the work is sublet, it shall be the duty of the Contractor to see that similar insurance is provided by or in behalf of the subcontractors to cover their operations.

4.08. Contractor's Protective Public Liability and Property Damage Liability Insurance. -- The Contractor shall furnish evidence to the State that, with respect to the operations performed for him by subcontractors, he carries in his own behalf (1) regular Contractor's Protective Public Liability Insurance providing for a limit of not less than \$250,000 for all damages arising out of bodily injuries to or death of one person, and subject to that limit for each person, a total limit of \$500,000 for all damages

arising out of bodily injuries to or death of two or more persons in any one accident; and (2) regular Contractor's Protective Property Damage Liability Insurance providing for a limit of not less than \$100,000 for all damages arising out of injury to or destruction of property in any one accident and, subject to that limit per accident, a total (or aggregate) limit of \$500,000 for all damages arising out of injury to or destruction of property during the life of the Contract. The policy shall be written or endorsed to cover the hazards of blasting, operations of mechanical equipment on streets or highways, and collapse.

4.09. Automobile Insurance. -- The Contractor shall furnish evidence to the State that with respect to the operations he performs, he carries in his own behalf (1) Automobile Insurance providing for a limit of not less than \$100,000 for all damages arising out of bodily injuries to or death of one person and, subject to that limit for each person, a total limit of \$300,000 for all damages arising out of bodily injuries to or death of two or more persons in any one accident; and (2) Property Damage Liability Insurance having a total (or aggregate) limit of \$100,000. This policy shall cover all owned, hired, or non-owned cars used on the project.

4.10. Steam Boiler Insurance. -- In event steam boilers are used on the work, the Contractor shall furnish evidence that he carries in his own behalf standard Steam Boiler

Insurance having an aggregate limit of not less than \$250,000. This insurance shall be carried until all work required to be performed under the terms of the Contract is satisfactorily completed as evidenced by the formal acceptance by the State.

4.11. Countersignature of Resident West Virginia Agent. --

The policy or policies of insurance herein required must be countersigned by a Resident Agent of the State of West Virginia, in accordance with the applicable statute of the State of West Virginia.

4.12. Special Bonds and Insurance. -- When the work is of such nature that special bond or insurance is required, the special requirements will be detailed and included in the Proposal for the project.

4.13. Execution of Contract. -- The Contract shall be executed by the bidder to whom the Contract has been awarded, the bond executed by the principal and the sureties, and the Contract and bond returned to the Department within 20 days after the date of the notice of the award.

4.14. Failure to Execute Contract. -- Failure by the bidder to execute the Contract and file acceptable bond within 20 days after notice of award shall be just cause for the annulment of the Contract, that the amount of the guaranty deposited with the Proposal will be retained by the Department and deposited in the Department of Highways Fund, not as a penalty, but as liquidated damages. Award may then be made to

the next lowest responsible bidder, or the work may be readvertised and constructed under Contract or otherwise, as the Department may decide.

4.15. Pre-Construction Conference. -- As soon as possible after the award of each Contract a Pre-Construction Conference will be arranged by the Department. The Contractor, his superintendent, or his authorized agent shall be present at the conference and shall present the proposed schedule of work, list of proposed subcontractors, if any, and a list of suppliers from whom materials are anticipated to be purchased, as well as other documents required by the contract. The information so presented shall be on forms submitted to the Contractor with the notice of Pre-Construction Conference. The Department will make arrangements for utility representatives to be present.

Section 5. Scope of Work

5.01. Intent of Contract. -- The intent of the Contract is to provide for the construction and completion in every detail of the work described. The Contractor shall furnish all labor, materials, equipment, tools, transportation, and supplies required to complete the work in accordance with the Plans, Specifications, and terms of the Contract.

Should any misunderstanding arise as to the intent or meaning of the Contract, or any discrepancy appear therein, the

decision of the Commissioner shall be final.

5.02. Alteration of Plans or Character of Work. -- The Department reserves the right to make alterations in the Plans or in the quantities of work as may be necessary or desirable at any time either before or during the work under the Contract. Such alterations shall not be considered as a waiver of any conditions of the Contract nor shall they invalidate any of the provisions thereof, except as provided herein.

Any item which is increased or decreased by 25 percent of the Contract amount for that item is eligible for consideration for price adjustment, provided the amount of the change at the Contract unit price exceeds \$10,000. When an item is adjusted due to an increase in the quantity of the item, the Contractor shall perform the Contract amount of the item plus 25 percent, or the Contract amount of the item plus \$10,000, whichever is greater, at the Contract unit price.

Under no circumstances shall alterations of Plans or of the nature of the work involve work beyond the termini of the proposed construction except as may be necessary to satisfactorily complete the Project.

When alterations are made in excess of those herein specified, then either party to the Contract, upon written demand, shall be entitled to revised contract consideration to be fixed and agreed upon in a written supplemental agreement, covering the necessary changes, executed between the

contracting parties. In the event the Engineer and the Contractor are unable to agree upon the terms of the supplemental agreement, the Contractor may have the option either of proceeding with the work and receiving payment therefor, in an amount determined by the Engineer as the reasonable direct cost of the material and labor furnished by the Contractor, in the manner and amount as hereinafter prescribed in section 5.03 for "Extra Work"; or of permitting the work necessary to be done at the time and in the manner deemed most expedient by the Commissioner or his duly authorized representative.

The Department may omit any item or items in the Contract, provided that notice of intent to omit such item or items is given to the Contractor before any material has been purchased or labor involved has been performed, and such omission shall not constitute grounds for any claim for damages or loss of anticipated profits. The Department may omit any item or items shown in the Proposal, at any time, by agreeing to compensate the Contractor for the reasonable expense already incurred and to take over at actual cost any unused material purchased in good faith for use for the item or items omitted.

Should the Contractor encounter or the Department discover during the progress of the work subsurface or latent physical conditions at the site differing materially from those indicated in the Contract, or unknown physical conditions at

the site of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract, the Engineer shall be notified in writing of such conditions; and if the Engineer finds the conditions do materially differ and cause an increase or decrease in the cost of, or the time required for performance of the Contract, an equitable adjustment will be made and the Contract modified in writing accordingly.

In addition to the above, alterations in Plans or increased in quantities of items may be made necessary at a time when the Contract or the items involved in the operations are substantially completed, the related Contractor organization demobilized, and related equipment essentially removed from the project. Under these circumstances, if it is demonstrated that the unit cost to the Contractor has increased, additional compensation may be allowed by the Engineer and the additional work performed as prescribed in section 5.03 as "Extra Work".

Any adjustment in compensation because of a change or changes resulting from one or more of the conditions described above will be made in accordance with the provisions of section 10.03. Any adjustment in contract time because of such change or changes will be made in accordance with the provisions of 9.06.

5.03. Extra Work. -- The Contractor shall perform unforeseen work, for which there is no price included in the Contract, whenever it is deemed necessary or desirable in order to complete fully the work as contemplated. Such work shall be performed in accordance with the Specifications and as directed, and will be paid for as provided under section 10.04.

5.04. Temporary Structures. -- In contracts for bridges only, the Contractor will not be required to construct or maintain temporary structures unless the construction and maintenance of such structures are stipulated in the Contract or ordered as extra work by the Engineer. If the building of temporary structures is included in the Contract, or added by extra work order, the responsibility of the Contractor for accidents to the public or to his workmen, arising from its construction or maintenance, shall extend to such structure and its roadway approaches.

5.05. Maintenance of Traffic. -- The Project, while undergoing improvement, shall be kept open to all traffic by the Contractor in such condition that both local and through traffic will be adequately and safely accommodated. All construction operations shall be scheduled to keep traffic delay to a minimum. The Department has adopted, and the Contractor shall follow the Standard, "Traffic Control for Street and Highway Construction and Maintenance Operations", published by the West Virginia Department of Highways.

All expenses for the following items shall be borne by the Contractor without extra compensation except when the Proposal provides for payment under 636, Maintaining Traffic (West Virginia Department of Highways Standard Specifications, Roads and Bridges, Adopted 1982):

- i. The construction and maintenance of temporary detours, temporary structures, temporary approaches, crossings and intersections with streets and roads, including the furnishing and application of aggregates for maintenance of traffic and liquid asphalt oil, calcium chloride, or water for use as dust palliative.
- ii. The furnishing of flaggers and pilot trucks and drivers.
- iii. The furnishing, erection, and maintenance of warning devices, such as signs, auxiliary barriers, channelizing devices, hazard warning lights, barricades, flares and reflective markers.

If actual field conditions are not illustrated in the Plans, engineering judgment and discretion shall be exercised to select devices that will be adaptable, but the general policies herein prescribed shall be adhered to. Final

responsibility for the installation of adequate safety devices for the protection of the traveling public and workmen, as well as for the safeguard of the work in general, shall rest with the Contractor.

During any suspension of work, the Contractor shall make passable and shall open to traffic such portions of the project and temporary roadways or portions thereof as may be agreed upon between the Contractor and the Engineer for the temporary accommodation of necessary traffic during the anticipated period of suspension. Thereafter, and until an issuance of an order for the resumption of construction operations, the maintenance of the temporary route or line of travel agreed upon will be by and at the expense of the Department. When work is resumed, the Contractor shall replace or renew any work or materials lost or damaged because of such temporary use of the project and shall remove, to the extent directed by the Engineer, any work or materials used in the temporary maintenance thereof by the Department and shall complete the project in every respect as though its prosecution has been continuous and without interference. All additional work caused by such suspensions, for reasons beyond the control of the Contractor, will be paid for by the Department at contract prices or by extra work.

The Department will provide all necessary snow removal.

5.06. Rights In and Use of Materials Found on the

Work. -- The Contractor, with the approval of the Engineer, may use on the project such stone, gravel, sand, or other material determined suitable by the Engineer, as may be found in the excavation and will be paid both for the excavation of such materials at the corresponding contract unit price and for the pay item for which the excavated material is used. He shall replace at his own expense with other acceptable material all of that portion of the excavation material so removed and used which was needed for use in the embankments, backfills, approaches, or otherwise. No charge for the material so used will be made against the Contractor. The Contractor shall not excavate or remove any material from within the highway location which is not within the grading limits, as indicated by the slope and grade lines, without written authorization from the Engineer.

Unless otherwise provided in the Contract, the material from any existing old structures and pipes shall become the property of the Contractor and shall be removed from the project.

5.07. Final Clean Up. -- Before final acceptance is made, the Contractor shall clear the highway, waste areas, borrow pits and all ground occupied by the Contractor during the construction, of all rubbish, excess materials, temporary

structures and equipment. He shall restore in an acceptable manner all property, both public and private, which has been damaged during the prosecution of the work; and shall leave the highway or bridge site, including streams and banks, in a neat and presentable condition in accordance with applicable laws of the State. All excavated material or falsework placed in stream channels shall be removed, and all material from around piers and abutments shall be replaced and compacted to the level of the original surface.

5.08. Bridge Plate. -- A bronze plate, carrying the project number, the number of the bridge, and the year of the bridge construction, will be furnished and placed by the Contractor without extra compensation. The name plate on through steel bridges shall be placed on the end posts about eight feet vertically above the floor. On other bridges, they shall be placed in the railings as shown on the Plans or as designated by the Engineer. The plate shall be a minimum of 8 in. by 10 in. wide, with letters and numbers of 3/4 in. minimum height raised 1/8 in. above the surface of the plate. The information on the plate shall be arranged as follows:

Project No. _____

Bridge No. _____
Built (Year of Construction) _____

Section 6. Control of Work

6.01. Authority of the Engineer. -- The Engineer will decide all questions which may arise as to the quantity, quality, and acceptability of materials furnished and work performed, and as to the rate of progress of the work; all questions which may arise as to the interpretation of the Plans and Specifications; and all questions as to the acceptable fulfillment of the Contract on the part of the Contractor. The decision of the Engineer will be final.

The Engineer will have the authority to suspend the work wholly or in part due to the failure of the Contractor to correct conditions unsafe for the workman or the general public, for failure to carry out provisions of the Contract, for failure to carry out orders, for such periods as he may deem necessary due to unsuitable weather, for conditions considered unsuitable for the prosecution of the work, or for any other condition or reason deemed to be in the public interest. All such suspension orders will be directed to the Contractor in writing.

The Engineer is not authorized to increase the obligation of the Department to any Contract except as herein provided.

6.02. Plans and Working Drawings. -- Approved Plans will show the location, profile, typical cross section, structures except as hereinafter specified, incidental items, and a summary of all items appearing in the Proposal. Any deviations

which may be required by the exigencies of the construction will be determined by the Engineer and authorized by him in writing. The contractor shall keep one set of approved Plans available on the work at all times.

Plans will show such details as are necessary to give a comprehensive idea of the construction contemplated. Any information which may be shown on drawings regarding results obtained from the test piles or borings will be a record of conditions encountered at the place where such test piles were driven or borings were made, as nearly as these conditions could be interpreted by the Engineer observing the operations. The Contractor shall interpret the data in the light of his own experience. The Contractor is not bound to accept or rely on the data shown on the drawings, but may make such additional borings and investigations, including test piles, as he may desire in order to satisfy himself concerning the lengths of piles and the conditions governing or entering into the construction of foundations.

The Plans will show the foundation depths and dimensions on which the estimate of quantities is based. These depths and foundation dimensions, however, are subject to such variations as may be necessary to secure a foundation satisfactory to the Engineer, and the right is expressly reserved to increase or diminish the dimensions and depths of the foundations as the Engineer may determine.

The Contractor shall submit to the Engineer for approval such additional stress sheets, shop details, and other working drawings as may be required for the construction of any part of the work; and prior to the approval of such plans, any work done or materials ordered shall be at the Contractor's risk.

Working drawings for steel structures shall consist of shop detail, erection and other working plans, showing details, dimensions, sizes of material, and other information necessary for complete fabrication and erection of metal work. The Department will require shop lists for structured steel to be submitted on automatic data processing cards or magnetic tape in a format as set forth by the Engineer.

Working drawings for concrete structures shall consist of such detail plans as may reasonably be required for the successful prosecution of the work and which are not included in the Plans furnished by the Engineer. These may include plans for falsework, bracing, centering and formwork, masonry layout diagrams, and diagrams for bent reinforcement.

The Contractor shall furnish the Engineer such copies of the working drawings as may be required for approval and for construction purposes, and upon completion of the work the original tracings of working drawings shall be delivered to the Engineer. The drawings are to be on tracing cloth, in ink or in pencil, with the drawing lacquered after completion or

reproduced on cloth by an acceptable method. The size of all drawings and prints shall be 22 in. by 36 in., including margins.

It is expressly understood that the approval by the Engineer of the Contractor's working drawing relates to the requirements for strength and general arrangement, and such approval will not relieve the Contractor from responsibility for omission, errors in dimensions, shop fits, field connection, etc., for quantity of materials, or from any of his responsibility under the Contract for the successful completion of the work. The Contract price shall include the cost of furnishing all working drawings, and the Contractor will be allowed no extra compensation for such drawings.

6.03. Conformity with Plans and Specifications. -- All work performed and all materials furnished shall be in reasonably close conformity with the lines, grades, cross sections, dimensions and material requirements, including tolerances, shown on the Plans or indicated in the Specifications.

In the event the Engineer finds the materials or the finished product in which the materials are used not within reasonably close conformity with the Plans and Specifications but that reasonably acceptable work has been produced, he will then make a determination if the work will be accepted and remain in place. In this event, the Engineer will document the

basis of acceptance by contract modification which will provide for an appropriate adjustment in the contract price for such work or materials as he may deem necessary to conform to his determination based on engineering judgment.

The Engineer will determine acceptability of materials or construction as outlined in the applicable sections of these Specifications or Plans. Items not conforming to specification requirements may be reworked or removed and replaced and resubmitted for acceptance in accordance with sections 7.03(1)(b) and 7.07(2). All nonconforming material or construction judged to be inadequate for the use intended shall be either reworked or removed and replaced at no expense to the Department. When nonconforming material or construction is allowed to remain in place, an adjustment payment will be allowed as delineated in these Specifications, or as directed by the Engineer.

6.04. Coördination of Plans, Specifications, Supplemental Specifications, and Special Provisions. -- The Specifications, the Supplemental Specifications, the Plans, Special Provisions, and all Supplementary documents are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work. In case of discrepancy, calculated dimensions will govern over scaled dimensions; Supplemental Specifications

will govern over Specifications; Plans will govern over Specifications and Supplemental Specifications; Special Provisions will govern over Specifications, Supplemental Specifications and Plans. When the Plans provide that new work is to connect with existing structures, the Contractor must verify all dimensions with the Engineer before proceeding with the work.

The Contractor shall take no advantage of any apparent error or omission in the Plans or Specifications. In the event the Contractor discovers such an error or omission, he shall immediately notify the Engineer. The Engineer will then make such corrections and interpretations as may be deemed necessary for fulfilling the intent of the Plans and Specifications.

6.05. Cooperation By Contractor. -- The Contractor will be furnished a maximum of three (3) complete sets of plan and profile sheets and three (3) complete sets of cross sections upon request, without charge. Additional copies may be obtained upon payment of \$10.00 per set of plan and profile sheets and \$50.00 per set of cross sections. The Contractor shall maintain on the Project at all times one complete set of Plans, Specifications, and Special Provisions.

The Contractor shall give the work the constant attention necessary to facilitate the progress thereof, and shall cooperate with the Engineer, his inspectors, other contractors, and utilities in every way possible.

The Contractor shall have on the work at all times, as his agent, a competent Superintendent capable of reading and thoroughly understanding the Plans and Specifications, and thoroughly experienced in the type of work being performed, who shall receive instructions from the Engineer or his authorized representatives. The Superintendent shall have full authority to execute orders or directions of the Engineer without delay, and to promptly supply such materials, equipment, tools, labor, and incidentals as may be required. Such superintendence shall be furnished irrespective of the amount of work sublet.

The Contractor shall furnish to the Engineer a list of addresses and telephone numbers of his personnel who may be reached in case of emergency during hours when no work is to be performed. On weekends, holidays, during suspensions of work, and during storms the Contractor shall alert certain of his personnel to stand by and shall inform the Engineer of arrangements so made.

The Contractor shall provide all reasonable facilities and furnish the Department the information, assistance and samples required by the Engineer and Inspector for proper inspecting or testing of materials and workmanship.

On some contracts it may be necessary, to insure proper coordination between the work of the Contractor and the work of various utilities, to hold a pre-construction utility meeting. The Department will arrange for the affected utilities to be

present. The Contractor or his representative, authorized to make decisions for him in regard to the scheduling of the proposed work, is required to attend the meeting. A report of the pre-construction utility meeting will be prepared and distributed by the Engineer to all represented at the meeting.

6.06. Cooperation with Utilities. -- The Department will notify all utility companies, all pipe line owners, or other parties affected, and endeavor to have all necessary adjustments of the public or private utility fixtures, sewers, pipe lines, and other appurtenances within or adjacent to the limits of construction, made as soon as practicable.

Water lines, gas lines, wire lines, sewer lines, service connections, water and gas meter boxes, water and gas valve boxes, light standards, cableways, signals, and all other utility appurtenances within the limits of the proposed construction which are to be relocated or adjusted are to be moved by the owners at their expense, except as otherwise provided for in the Special Provisions or as noted on the Plans.

Should the Contractor desire temporary changes of location for his convenience of any utility appurtenances, he shall satisfy the Department that the proposed relocation does not interfere with his or other Contractors' operations of the requirements of the work and does not cause an obstruction or a hazard to traffic. The Contractor shall make his own request

to the utility or other parties affected by such relocation work. Such relocation work shall be made solely at the Contractor's expense.

Any work done under or within the right-of-way of a railroad shall be under the supervision and control of the Chief Engineer, or other designated officer, of the railroad to the extent necessary in the judgment of the Chief Engineer, or other designated officer, to insure safe and uninterrupted operation of its trains and the convenient conduct of its business. Any additional conditions or requirements for doing work within the railroad right-of-way will be set forth in the Contract.

In general, it is to be understood that the Contractor has considered in his bid all of the permanent and temporary utility appurtenances in their present or relocated positions as shown on the Plans, and that no additional compensation will be made by the State for any delays, inconvenience, or damage sustained by him due to interference from the utility appurtenances or the operation of moving them. The locations of the underground utilities shown on the Plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the Department makes no guarantees as to their exact locations.

6.07. Cooperation Between Contractors. -- The Department reserves the right at any time to contract for and perform other or additional work on or near the work covered by the Contract.

When separate Contracts are let within the limits of any one project, each Contractor shall conduct his work so as not to interfere with or hinder the progress or completion of the work being performed by other Contractors. Contractors working on the same project shall cooperate with each other as directed.

Each Contractor involved shall assume all liability, financial or otherwise, in connection with his Contract and shall protect and save harmless the Department from any and all damages or claims that may arise because of inconvenience, delay, or loss experienced by him because of the presence and operations of other contractors working within the limits of the same project.

The Contractor shall arrange his work and shall place and dispose of the materials being used so as not to interfere with the operations of the other contractors within the limits of the same project. He shall join his work with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others.

In the event the Engineer finds that further coordination effort is necessary, he shall call a meeting of the contractors

involved. After the meeting has been held, he may notify the Contractors of the action required of each and his decision shall be final.

6.08. Construction Stakes, Lines and Grades. -- Except when Item 639-1, "Construction Layout Stakes" (West Virginia Department of Highways Standard Specifications Roads and Bridges, Adopted 1982), is included in the Contract, the Engineer will set construction stakes establishing lines, slopes and continuous profile-grade, together with necessary reference stakes and bench marks. The Engineer will set sufficient right-of-way stakes to define right-of-way limits. The Engineer will set stakes to mark center line and establish bench marks for bridges and special structures as may be considered necessary.

The stakes and marks in the paragraph above shall constitute field control by and in accordance with which the Contractor shall establish all additional stakes and marks necessary to secure a correct layout of all the work. All stakes, except those set by the Engineer, shall be furnished by the Contractor. The Contractor shall not engage the services of any person or persons in the employ of the Department for the performance of any of the Contractor's layout work.

The Contractor shall be responsible for having the finished work in reasonably close conformity with the lines, grades, elevations, and dimensions called for on the Plans or

established by the Engineer. The Contractor shall be held responsible for the preservation of stakes, marks and references, and shall have them reset at his expense when they are damaged, lost, displaced, or removed.

6.09. Authority and Duties of the Project Engineer or Project Supervisor. -- The Project Engineer or Supervisor has immediate charge of the engineering details of each construction project. He is responsible for the administration and satisfactory completion of the project.

The Project Engineer or Supervisor has the authority to reject defective material and to suspend any work that is being improperly performed.

The Project Engineer or Supervisor will have the authority to suspend the work wholly or in part due to the failure of the Contractor to correct conditions unsafe for the workmen or the general public; for failure to carry out provisions of the Contract; for failure to carry out orders; for such periods as he may deem necessary due to unsuitable weather. All such suspension orders will be directed to the Contractor in writing. The suspension of the work for the above reasons does not relieve the Contractor of his responsibility according to section 8.16.

6.10. Authority and Duties of the Inspector. -- Inspectors employed by the Department will be authorized to inspect all work done and materials furnished. Such inspection

may extend to all or any part of the work and to the preparation, fabrication or manufacture of the materials to be used. The Inspector is not authorized to alter or waive the provisions of the Contract. He is authorized to call the attention of the Contractor to any failure of the work or materials to conform to the Specifications and Contract. He is authorized to reject materials which do not meet specification requirements or suspend the portion of the work involved until any question at issue can be referred to the Project Engineer or Project Supervisor. The Inspector is not authorized to issue instructions contrary to the Plans and Specifications. The Inspector shall not act as foreman or perform other duties for the Contractor, nor interfere with the management of the work by the latter.

6.11. Inspection of Work and Materials. -- All materials and each part or detail of the work shall be subject to inspection by the Engineer. The Engineer or his representative shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection.

If the Engineer requests it, the Contractor, at any time before acceptance of the work, shall remove or uncover such portions of the finished work as may be directed. After examination, the Contractor shall restore said portions of the

work to the standard required by the Specifications. Should the work thus exposed or examined prove acceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed will be paid for as extra work; but should the work so exposed or examined prove unacceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed shall be at the Contractor's expense.

Any work done or materials used without supervision or inspection by an authorized Department representative may be ordered removed and replaced at the Contractor's expense. Failure to reject any defective material or work shall not in any way prevent later rejection when such defects are discovered, nor obligate the Department to final acceptance.

When any unit of government or political subdivision or any railroad corporation is to pay a portion of the cost of the work covered by this Contract, its respective representatives shall have the right to inspect the work. Such inspection shall in no sense make any unit of government or political subdivision or any railroad corporation a party to this Contract, and shall in no way interfere with the rights of either party hereunder.

No work shall be done at night, Saturdays, Sundays or Holidays without documented prior approval of the Engineer.

6.12. Removal of Unacceptable and Unauthorized Work. --
Except as provided in section 6.03., all work which does not conform to the requirements of the Contract will be considered as unacceptable work.

Unacceptable work, whether the result of poor workmanship, use of defective materials, damage through carelessness or any other cause, found to exist prior to the final acceptance of the work, shall be removed immediately and replaced in an acceptable manner.

Unacceptable material shall be removed from the job site.

No work shall be done without lines and grades having been given or approved by the Engineer. Work done contrary to the instructions of the Engineer, work done beyond the lines shown on the Plans, or as given, except as herein specified, or any extra work done without authority, will be considered as unauthorized and will not be paid for under the provisions of the Contract. Work so done may be ordered removed or replaced at the Contractor's expense.

Upon failure on the part of the Contractor to comply promptly with any order of the Engineer, made under the provisions of this Subsection, the Engineer will have authority to cause unacceptable work to be remedied or removed and replaced and unauthorized work to be removed, and to deduct the costs from any monies due or to become due the Contractor.

6.13. Load Restrictions. -- The Contractor shall comply with all legal load restrictions in the hauling of materials on public roads. A special permit will not relieve the Contractor of liability for damage which may result from the moving of equipment.

The operation of equipment of such weight or so loaded as to cause damage to structures or the roadway or to any other type of construction will not be permitted. Hauling of materials over the base course or surface course under construction shall be limited as directed. No loads will be permitted on a concrete pavement, base or structure before the expiration of the curing period. In no case shall legal load limits be exceeded unless permitted in writing. The Contractor shall be responsible for all damage done by his own equipment.

6.14. Maintenance during Construction. -- The Contractor shall maintain the work during construction and until the project is accepted except as otherwise provided in section 6.16(1). This maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces to the end that the roadway and structures are kept in satisfactory condition at all times.

In the case of a Contract for the placing of a course upon a course or subgrade previously constructed, the Contractor shall maintain the previous course or subgrade during all construction operations.

All cost of maintenance work during construction and before the project is accepted shall be included in the unit prices bid on the various pay items, and the Contractor will not be paid an additional amount for such work except as otherwise provided in section 5.05.

6.15. Failure to Maintain Roadway or Structure. -- If the Contractor, at any time, fails to comply with the provisions of section 6.14, the Engineer will immediately notify the Contractor of such non-compliance. If the Contractor fails to remedy unsatisfactory maintenance within 24 hours after receipt of such notice, the Engineer may immediately proceed to maintain the project, and the entire cost of his maintenance will be deducted from monies due or to become due the Contractor on his Contract.

6.16. Acceptance. --

(1) Partial Acceptance - If at any time during the prosecution of the project, the Contractor completes a unit or portion of the project, such as a structure, an interchange, or a section of road or pavement, he may request the Engineer to make final inspection of that unit. If the Engineer finds upon inspection that the unit has been completed in compliance with the Contract, he may accept that unit as being completed and the Contractor may be relieved of further responsibility for that unit. Such partial acceptance shall in no way void or alter any of the terms of the Contract.

(2) Final Acceptance - Upon due notice from the Contractor of presumptive completion of the entire project, the Engineer will make an inspection. If all construction provided for and contemplated by the Contract is found completed to his satisfaction, that inspection will constitute the final inspection. The Engineer will make the final acceptance and notify the Contractor in writing of this acceptance. Final acceptance will be the date the Contract Completion Report is fully executed by the Department.

If, however, the inspection disclosed any work, in whole or in part, as being unsatisfactory, the Engineer will give the Contractor the necessary instruction for correction of same in writing, and the Contractor shall immediately comply with and execute such instructions. Upon correction of the work, another inspection will be made which will constitute the final inspection provided the work has been satisfactorily completed. In such event, the Engineer will make the final acceptance and notify the Contractor in writing of this acceptance. Final acceptance will be the date the Contract Completion Report is fully executed by the Department.

6.17. Claims for Adjustment and Disputes. -- If, in any case, the Contractor deems that additional compensation is due him for work or material not clearly covered in the Contract or not ordered by the Engineer as extra work, as defined herein, the Contractor shall notify the Engineer in writing of his

intention to make claim for such additional compensation before he begins the work on which he bases the claim. If such notification is not given, and the Engineer is not afforded proper facilities by the Contractor for keeping strict account of actual cost as required, then the Contractor hereby agrees to waive any claim for such additional compensation. Such notice by the Contractor, and the fact that the Engineer has kept account of the cost as aforesaid, shall not in any way be construed as proving or substantiating the validity of the claim. If the claim, after consideration by the Engineer, is found to be just, it will be paid as extra work as provided herein for force account work. Nothing herein shall be construed as establishing any claim contrary to the terms of section 5.02.

Section 7. Control of Material

7.01. Source of Supply and Quality Requirements. -- The material used on the work shall meet all quality requirements of the Contract. To expedite the inspection and testing of materials, the Contractor shall notify the Engineer of his proposed sources of material as required in section 5.15. At the option of the Engineer, materials may be approved at the source of supply before delivery is started. If it is found after trial that sources of supply for previously approved

materials do not produce specified products, the Contractor shall furnish materials from other sources at no increase in cost to the Department.

The Contractor shall provide and maintain a quality control system. This quality control system shall conform to all requirements of the Specifications.

(1) Domestic Aluminum, Glass and Steel in Public Work Projects -

(a) Definitions: Unless the context in which used clearly requires a different meaning, as used in this section:

(1) "Public Works" - includes roads, highways, streets, bridges, sidewalks, sewage systems, buildings, engineering and architectural works, and any other structure, facility or improvement constructed or undertaken by the Department.

(2) "Aluminum, Glass, and Steel Products" - means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated, or otherwise similarly processed from aluminum, glass and steel. "Domestic aluminum, glass and steel products" means aluminum, glass and steel products made in the United States.

(2) Preference for Domestic Aluminum, Glass and Steel Products - The Department shall require that all aluminum, glass or steel products to be supplied for a

project shall be domestic aluminum, glass or steel products in compliance with Chapter 5, Article 19 of the West Virginia Code, unless the offered or bid price of the domestic aluminum, glass or steel products is unreasonable or that the domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the project requirements. The offered or bid price of domestic aluminum, glass or steel products is not unreasonable unless it is more than 20% higher than the offered or bid price of foreign-made aluminum, glass or steel products (including any applicable duty) or that if the aluminum, glass or steel products to be supplied are produced in a "substantial labor surplus area" as determined by the United States Department of Labor, the offered or bid price of domestic aluminum, glass or steel products is not unreasonable unless it is more than 30 percent higher than the offered or bid price of foreign-made aluminum, glass or steel products (including any applicable duty). A listing of the "substantial labor surplus areas" can be obtained from the Department's Contract Section. This Section does not apply to any project in an amount less than \$50,000.00.

(3) Contract Payments; Recovery in Case of

Violation of Section - The Department may not authorize or make any payments to a Contractor under a contract which contains or should contain the provision required by

section 7.01(2) unless such Contractor has fully complied with such Section. Prior to such payment, the Department may require the Contractor to furnish a certificate of compliance from each subcontractor and supplier. Payments made by the Department to any Contractor who did not comply with this section may be recovered by the Department.

(4) Procedures for Use of Foreign-Made Materials -

If foreign-made aluminum, glass or steel products are supplied in compliance with this Section, the Contractor shall be responsible for providing procedures acceptable to the Department for determining that specification requirements are met, including all inspections at no additional cost to the Department. The use of such foreign-made products will not be reason for granting an extension of time.

7.02. Local Material Sources. --

(1) Designated Sources - Possible sources of local materials may be designated in the contract documents. The quality of material in such deposits will be acceptable in general, but the Contractor shall determine for himself the amount of equipment and work required to produce a material meeting the Specifications. It shall be understood that it is not feasible to ascertain from samples the limits for an entire deposit, and that variations shall be considered as usual and are to be expected. The Engineer may order procurement of

material from any portion of a deposit and may reject portions of the deposit as unacceptable.

The Department may acquire and make available to the Contractor the right to take materials from the sources designated in the contract documents together with the right to use such property as may be specified, for plant site, stockpiles, and haul roads.

(2) Contractor Furnished Sources - If the Contractor desires to use material from sources other than those designated, he shall acquire the necessary rights to take materials from the sources and shall pay all costs related thereto, including any which may result from an increase in length of haul. All costs of exploring and developing such other sources shall be borne by the Contractor. The use of material from other than designated sources will not be permitted until representative samples taken by the Engineer have been approved and written authority is issued for the use thereof.

When material deposits are not designated in the Contract, the Contractor shall provide sources of material acceptable to the Engineer.

When sources of material or material deposits are provided by the Contractor, the Department will assume the cost of processing samples to determine the suitability of the material unless otherwise specified.

Sites from which material has been removed shall, upon completion of the work, be left in a neat and presentable condition and shall be properly drained. Unless otherwise directed by the Engineer, they shall be seeded and mulched as provided in 652 (West Virginia Department of Highways Standard Specifications, Roads and Bridges, Adopted 1982) without additional compensation. Where practicable, borrow pits, gravel pits, and quarry sites shall be located so they will not be visible from the highway.

7.03. Samples, Tests, Cited Specifications. -- All materials will be inspected, tested and approved prior to incorporation into the work. Any work which incorporates materials prior to the above evaluation shall be performed at the Contractor's risk, and may subsequently be considered as unacceptable. Unless otherwise specified, the materials shall meet the applicable Standard or Interim Specifications of the American Association of State Highway and Transportation Officials, the Standard or Tentative Specifications of the American Society for Testing and Materials, or Standards adopted by other specifying agencies, with preference given in the same order in which the above agencies are listed. The specification which is current at the time of advertisement for bids shall govern, except that, with the approval of the Engineer, subsequent revisions or adoptions may govern. Applicable tests of materials shall be made in accordance with

the methods prescribed by the American Society for Testing and Materials. All materials being used are subject to inspection, testing or rejection at any time prior to final acceptance of the completed work.

The Contractor shall be responsible for the quality of construction and materials incorporated therein. When called for in the Specifications, the Contractor shall perform all necessary process control inspection, sampling and testing. All materials will be approved for acceptance through the Department's acceptance procedures. The Department has the exclusive right and responsibility for determining the acceptability of the construction and materials incorporated therein. The Department may use the results of the Contractor's inspection, sampling and testing for acceptance purposes.

Lot or subplot sizes will normally be designated. In the event that operational conditions cause work to be interrupted, or only partially completed before the lot size designated has been achieved, the lot or subplot may be redefined by the Engineer as being either the amount of work accomplished within the day or that work partially completed combined with the next lot or subplot of work. It is the intent of these Specifications that the number of samples required to evaluate each lot or subplot will be unchanged even when the lot or subplot is redefined.

When an acceptance plan is cited, it shall be in accordance with section 7.03(1).

(1) Acceptance Plans -

(a) Percent Within Tolerance: The percentage of each lot or subplot of material, product, item of construction, or completed construction within the specified tolerances will be determined by the procedures as referenced by the specification requirements. When West Virginia AP-A is referenced, it will consist of Tables 106-1 to 106-5 inclusive, published in MP 106.20.

(b) Sampling of Reworked Lots or Sublots: It is the intent of these Specifications that lots or sublots of materials, products, items of construction or completed construction meet specification requirements at the time of submission. Lots or sublots generally will not be resampled unless reworked before submission. Sampling after reworking will be at the expense of the Contractor.

7.04. Plant Inspection. -- The Engineer may undertake the inspection of materials at the source.

In the event plant inspection is undertaken, the following conditions shall be met:

- i. The Engineer shall have the cooperation and assistance of the Contractor and the producer with whom he has contracted for materials.

- ii. The Engineer shall have full entry at all times to such parts of the plant as may concern the manufacture or production of the materials being furnished.
- iii. Adequate safety measures are to be provided and maintained.

The Department reserves the right to retest all materials, which have been tested and accepted at the source of supply, after the materials have been delivered to the project and prior to incorporation into the work and to reject all materials which, when retested, do not meet the requirements of the Specifications or those established for the specific project.

7.05. Storage of Materials. -- Materials shall be so stored as to assure the preservation of their quality and fitness for the work. Stored materials, even though approved before storage, may again be inspected prior to their use in the work. Stored materials shall be located so as to facilitate their prompt inspection. Approved portions of the right-of-way may be used for storage purposes and for the placing of the Contractor's plant and equipment, but any additional space required therefore must be provided by the Contractor at his expense. Private property shall not be used for storage purposes without written permission of the owner or lessee, and if requested by the Engineer, copies of such

written permission shall be furnished him. All storage sites shall be restored to their original condition by the Contractor at his expense, except for the stripping and storing of topsoil, or to other materials salvaged from the work.

Care shall be exercised to protect finished concrete surfaces from being stained from storing or placing materials, including but not limited to reinforcing bars or mesh or unpainted structural steel, on same. Any such material so stored shall be adequately protected from weather. Any stains resulting from storage of materials on finished concrete surfaces shall be removed by the Contractor at his expense.

Aggregate stockpiles may be made on ground that is denuded of vegetation, hard, and well drained. If necessary, the ground shall be covered with two inch plank. Different kinds and sizes of aggregates shall be kept separate during transportation, handling, and storage until batched. If necessary, partitions of suitable height and strength shall be constructed between stockpiles to prevent different materials from becoming mixed. Care must be taken to prevent segregation of the coarse and fine particles of aggregates from taking place during handling or hauling. The inclusion of foreign materials will not be permitted. Aggregates placed directly on the ground shall not be removed from the stockpiles within one foot of the ground until the final cleaning up on the work, and then only the clean aggregate will be permitted to be used.

7.06. Handling Materials. -- All materials shall be handled in such manner as to preserve their quality and fitness for the work. Aggregates shall be transported from the storage site to the work in tight vehicles, so constructed as to prevent loss or segregation of materials after loading and measuring, in order that there may be no inconsistencies in the quantities of materials intended for incorporation in the work as loaded and the quantities as actually received at the place of operations.

7.07. Unacceptable Materials. --

(1) Acceptance or Rejection - Following the application of the appropriate acceptance plan, the decision of the Engineer will be final as to the acceptance, rejection, or acceptance at an adjusted price of sampled lots or sublots.

(2) Disposition of Lots or Sublots - Lots or sublots not conforming to specification requirements may be reworked or removed and replaced and resubmitted for acceptance. All nonconforming lots or sublots evaluated as unsatisfactory for the use intended shall be reworked or removed and replaced and resubmitted for acceptance. When the evaluation indicates the lots or sublots may satisfactorily remain in place, acceptance will be at an adjusted price as stated in the Specifications or as directed by the Engineer.

7.08. Department-Furnished Material. -- The Contractor shall furnish all materials required to complete the work, except those specified to be furnished by the Department.

Materials furnished by the Department will be delivered or made available to the Contractor at the points specified in the Contract.

The cost of handling and placing all materials after they are furnished to the Contractor shall be considered as included in the contract price for the item in connection with which they are used.

The Contractor will be held responsible for all material delivered to him, and deductions will be made from any monies due him to make good any shortages and deficiencies, from any cause whatsoever, and for any damage which may occur after such delivery, and for any demurrage charges.

7.09. Silence of Specifications. -- The apparent silence of the Specifications, Supplemental Specifications, Plans and Special Provisions as to any detail, or the apparent omission from them of a detailed description concerning any point shall be regarded as meaning that only material and workmanship of acceptable quality are to be used.

Section 8. Legal Relations and Responsibility to Public

8.01. Laws to be Observed. -- The Contractor shall keep fully informed of all Federal and State laws, all local laws,

ordinances, and regulations and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the work, or which in any way affect the conduct of the work. He shall at all times observe and comply with all such laws, ordinances, regulations, orders and decrees; and shall protect and indemnify the State and its representatives against any claim or liability arising from or based on the violation of any such laws, ordinances, regulations, orders, or decrees, whether by himself, his subcontractors or his employees.

8.02. Permits, Licenses and Taxes. -- The Contractor shall procure all permits and licenses, pay all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful prosecution of the work.

Should the Contractor's plan of operation contemplate stream obstruction or interruption of natural flow conditions such as low water bridge construction, diversion, filling, dredging, restricting flow, cribbing or other similar effect for facilitating the Contractor's operations, but not specifically required as permanent work under the Contract, a permit authorizing such proposal shall be obtained from the Public Land Corporation, (West Virginia Department of Natural Resources) Charleston, West Virginia, 25305. An authentic copy of the permit shall be furnished to the Engineer prior to initiation of such change.

All motor-driven vehicles used by the Contractor, his employees, or a sub-contractor shall bear the proper West Virginia motor vehicle license tags.

8.03. Patented Devices, Materials, and Processes. -- If the Contractor employs any design, device, material, or process covered by letters of patent or copyright, he shall provide for such use by suitable legal agreement with the patentee or owner. The Contractor and the surety shall indemnify and save harmless the Department, any affected third party, or political subdivision from any claims for infringement by reasons of the use of any such patented design, device, material or process, or any trademark or copyright, and shall indemnify the Department for any costs, expenses, and damages which it may be obligated to pay by reason of any infringement, at any time during the prosecution or after the completion of the work.

8.04. Restoration of Surfaces Opened by Permit. -- The right to construct or reconstruct any utility service in the highway or street or to grant permits for same, at any time, is hereby expressly reserved by the Department for the proper authorities of the municipality in which the work is done, and the Contractor shall not be entitled to any damages either for the digging up of the street or for any delay occasioned thereby.

Any individual, firm, or corporation wishing to make an opening in the highway must secure a permit from the

Department. The Contractor shall allow parties bearing such permits, and only those parties, to make openings in the highway. The Contractor shall, when ordered by the Engineer, make in an acceptable manner all necessary repairs due to such openings and such necessary work will be paid for as "Extra Work", or as provided in these Specifications, and will be subject to the same conditions as original work performed.

8.05. Federal-Aid Provisions. -- When the United States Government pays any portion of the cost of a project, the Federal Laws and the Rules and Regulations made pursuant to such laws must be observed by the Contractor, and the work shall be subject to the inspection of the appropriate Federal Agency.

Such inspection shall in no sense make the Federal Government a party to the Contract and will in no way interfere with the rights of either party hereunder.

8.06. Sanitary Provisions. -- The Contractor shall provide and maintain in a neat, sanitary condition such accommodations for the use of his employees as may be necessary to comply with the requirements of the State and local Boards of Health, or of other bodies or tribunals having jurisdiction. He shall not create, commit, or maintain a public nuisance.

8.07. Public Convenience and Safety. -- The Contractor shall at all times so conduct his work as to assure the least

possible obstruction to traffic. The safety and convenience of the general public and the residents along the highway and the protection of persons and property shall be provided for by the Contractor as specified under section 5.05.

The Contractor shall comply with all applicable Federal, State and local laws governing safety, health and sanitation. The Contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions, on his own responsibility, or as the Engineer may determine, reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the Contract.

The Contractor and any subcontractor shall not require any laborer or mechanic employed in performance of the Contract to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health or safety, as determined under construction safety and health standards (Title 29, Code of Federal Regulations, Part 1926, formerly Part 1518, as revised from time to time), promulgated by the United States Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (83 Stat. 96).

8.08. Railway-Highway Provisions. -- If the Plans require that materials be hauled across the tracks of any railway, the

Department will make arrangements with the railway for any new crossings required or for the use of any existing crossings. If the Contractor elects to use crossings other than those shown on the Plans, he shall make his own arrangements for the use of such crossings.

All work to be performed by the Contractor in construction on the railroad right-of-way shall be performed in a manner satisfactory to the Chief Engineer of the railway and at such times and in such manner as not to unnecessarily interfere with the movement of trains or traffic upon the track of the railway company. The Contractor shall use all care and precaution in order to avoid accidents, damage, or unnecessary delay or interference with the railway company's trains or other property.

8.09. Bridges Over Navigable Waters. -- All work on navigable waters shall be so conducted that free navigation of the waterways will not be interfered with and that the existing navigable depths will not be impaired except as allowed by permit issued by the U. S. Army Corps of Engineers.

8.10. Barricades and Warning Signs. -- The Contractor shall provide, erect, and maintain all necessary barricades, suitable and sufficient lights, danger signals, signs, and other traffic control devices, except as provided by section 5.05, and he shall take all necessary precautions for the protection of the work and safety of the public. Highways

closed to traffic shall be protected by effective barricades, and obstructions shall be illuminated during hours of darkness. Suitable warning signs shall be provided to properly control and direct traffic.

The Contractor shall erect warning signs in advance of any place on the project where operations may interfere with the use of the road by traffic and at all intermediate points where the new work crosses or coincides with an existing road. Such warning signs shall be erected in accordance with the Plans furnished.

All barricades, warning signs, lights, temporary signals, and other protective devices must conform with the Standard "Traffic Control for Street and Highway Construction and Maintenance Operations," published by the West Virginia Department of Highways, and the provisions of 715.9.

8.11. Use of Explosives. -- When the use of explosives is necessary for the prosecution of the work, the Contractor shall exercise the utmost care not to endanger life or property, including new work. The Contractor shall be responsible for any and all damage resulting from the use of explosives.

All explosives shall be stored in a secure manner, in compliance with all laws and ordinances, and all such storage places shall be clearly marked. Where no local laws or ordinances apply, storage shall be provided satisfactory to the

Engineer and in general not closer than 1,000 ft. from the road or from any building or camping area or place of human occupancy.

The Contractor shall notify each public utility company, having structures in proximity to the site of work, of his intention to use explosives and such notice shall be given sufficiently in advance to enable the companies to take such steps as they may deem necessary to protect their property from injury.

8.12. Protection and Restoration of Property and Landscape. -- The Contractor shall be responsible for the preservation of all public and private property and shall protect carefully from disturbance or damage all land monuments and property marks until the Engineer has witnessed or otherwise referenced their location and shall not move them until directed.

The Contractor shall be responsible for all damage or injury to property of any character, during the prosecution of the work, resulting from any act, omission, neglect, or misconduct in his manner or method of executing the work, or at any time due to defective work or materials, and this responsibility will not be released until the project shall have been completed and accepted.

When or where any direct or indirect damage or injury is done to public or private property by or on account of any act,

omission, neglect, or misconduct in the execution of the work, or in consequence of the nonexecution thereof by the Contractor, he shall restore, at his own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding or otherwise restoring as may be directed, or he shall make good such damage or injury in an acceptable manner.

8.13. Forest Protection. -- In carrying out work within or adjacent to State or National Forests, the Contractor shall comply with all regulations of the State Fire Marshal, Department of Natural Resources, or any other authority having jurisdiction, governing the protection of forests and the carrying out of work within forests, and shall observe all sanitary laws and regulations with respect to the performance of work in forest areas. He shall keep the areas in an orderly condition, dispose of all refuse, obtain permits for the construction and maintenance of all construction camps, stores, warehouses, residences, latrines, cesspools, septic tanks, and other structures in accordance with the requirements of the Forest Supervisor.

The Contractor shall take all reasonable precaution to prevent and suppress forest fires and shall require his employees and subcontractors, both independently and at the request of forest officials, to do all reasonably within their power to prevent and suppress and to assist in preventing and

suppressing forest fires and to make every possible effort to notify a forest official at the earliest possible moment of the location and extent of any fire seen by them.

8.14. Responsibility for Damage Claims. -- The Contractor shall indemnify and save harmless the Department, its officers and employees, from all suits, actions, or claims of any character brought because of any injuries or damage received or sustained by any person, persons, or property on account of the operations of the Contractor; or on account of or in consequence of any neglect in safeguarding the work; or through use of unacceptable materials in constructing the work; or because of any act or omission, neglect, or misconduct of the Contractor; or because of any claims or amounts recovered from any infringements of patent, trademark, or copyright; or from any claims or amounts arising or recovered under the "Workman's Compensation Act," or any other law, ordinance, order, or decree; and so much of the money due to the Contractor under and by virtue of his Contract as may be considered necessary by the Department for such purpose may be retained for the use of the Department, or, in case no money is due, his surety may be held until such suit or suits, action or actions, claim or claims for injuries or damages as aforesaid shall have been settled and suitable evidence to the effect furnished to the Department; except that money due the Contractor will not be

withheld when the Contractor produces satisfactory evidence that he is adequately protected by public liability and property damage insurance.

8.15. Opening Sections of Project to Traffic. -- At the option of the Engineer, certain sections of the work may be opened for traffic. Such opening will not constitute acceptance of the work, or any part thereof, or a waiver of any provisions of the Contract; provided however, that on such portions of the project as are accepted for use of traffic, the Contractor shall not be required to assume any expense entailed in maintaining the roadway for traffic. Such expense will be borne by the Department or will be compensated for in the manner provided hereinafter in section 10.04. Any damage to the highway not attributable to traffic which might occur on such section, except slides, shall be repaired by the Contractor at his expense. The removal of slides shall be performed by the Contractor and payment will be in accordance with section 5.03.

If the Contractor is dilatory in completing shoulders, drainage structures, or other features of the work, the Engineer may order all or a portion of the project open to traffic, but in such event the Contractor shall not be relieved of his liability and responsibility during the period the work is so opened prior to final acceptance. The Contractor shall

conduct the remainder of his construction operations so as to cause the least obstruction to traffic.

8.16. Contractor's Responsibility for Work. -- Until final written acceptance of the project by the Engineer, the Contractor shall have the charge and care thereof and shall take every precaution against injury or damage to any part thereof by the action of the elements, or from any other cause, whether arising from the execution or from the nonexecution of the work. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the work occasioned by any of the above causes before final acceptance and shall bear the expense thereof except damage to the work due to unforeseeable causes beyond the control of and without the fault of or negligence of the Contractor, including but not restricted to acts of God, of the public enemy or governmental authorities.

In case of suspension of work from any cause whatever, the Contractor shall be responsible for the project and shall take such precautions as may be necessary to prevent damage to the project, provide for normal drainage and to erect any necessary temporary structures, signs, or other facilities at his expense. During such period of suspension of work, the Contractor shall properly and continuously maintain in an acceptable growing condition all living material in newly established plantings, seedings, and soddings furnished under

his Contract, and shall take adequate precautions to protect new tree growth and other important vegetative growth against injury.

8.17. Contractor's Responsibility for Utility Property and Services. -- At points where the Contractor's operations are adjacent to properties of railway, telegraph, telephone, and power companies, or are adjacent to other property, damage to which might result in considerable expense, loss, or inconvenience, work shall not be commenced until all arrangements necessary for the protection thereof have been made.

The Contractor shall cooperate with the owners of any underground or overhead utility lines in their removal and rearrangement operations in order that these operations may progress in a reasonable manner, that duplication of rearrangement work may be reduced to a minimum, and that services rendered by those parties will not be unnecessarily interrupted.

In the event of interruption to water or utility services as a result of accidental breakage, or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority and shall cooperate with such authority in the restoration of service. If water service is interrupted, repair work shall be continuous until the service is restored.

No work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority.

8.18. Furnishing Right-Of-Way. -- The Department will be responsible for securing all necessary rights-of-way in advance of construction. Any exceptions will be indicated in the Contract.

8.19. Personal Liability of Public Officials. -- In carrying out any of the provisions of these Specifications, or in exercising any power or authority granted to them by or within the scope of the Contract, there shall be no liability upon the Commissioner, Engineer, or their authorized representatives, either personally or as officials of the State, it being understood that in all such matters they act solely as agents and representatives of the Department.

8.20. No Waiver of Legal Rights. -- The Department shall not be precluded or estopped by any measurement, estimate, or certificate made either before or after the completion and acceptance of the work and payment therefor, from showing the true amount and character of the work performed and materials furnished by the Contractor, nor from showing that any such measurement, estimate or certificate is untrue or is incorrectly made, nor that the work or materials do not in fact conform to the Contract. The Department shall not be precluded or estopped, notwithstanding any such measurement, estimate, or

certificate and payment in accordance therewith, from recovering from the Contractor or his sureties, or both, such damage as it may sustain by reason of his failure to comply with the terms of the Contract. Neither the acceptance by the Department or any representative of the Department, nor any payment for or acceptance of the whole or any part of the work, nor any extension of time, nor any possession taken by the Department, shall operate as a waiver of any portion of the Contract or of any power herein reserved or of any right to damages. A waiver of any breach of the Contract shall not be held to be a waiver of any other or subsequent breach.

8.21. Protection of Rivers, Streams, and Impoundments. --

(1) Erosion and Siltation Control - The Contractor shall exercise every reasonable precaution throughout the life of the Project to prevent silting of rivers, streams, and impoundments such as lakes, reservoirs, etc. Construction of drainage facilities as well as performance of other contract work which will contribute to the control of siltation shall be carried out in conjunction with earthwork operations or as soon thereafter as is practicable.

Prior to suspension of construction operations for any appreciable length of time, the Contractor shall shape the top of earthwork in such a manner as to permit the runoff of rainwater and shall construct earth berms along the top edges of embankments to intercept runoff water. The berm

construction shall not be permitted to decrease the stability of the embankment section. Temporary slope drains shall be provided to carry runoff from embankments which are located in the immediate vicinity of rivers, streams, and impoundments. The slope drains shall be located at approximate 500-ft. intervals and shall be stabilized by paving or covering with waterproof materials. Preventive measures taken under this paragraph shall be adequate to control any runoff or erosion products from adjacent cut slopes. Should such preventive measures fail and an appreciable amount of material begins to erode into a river, stream or impoundment, the Contractor shall act immediately to bring the siltation under control.

The erosion control measures shall be continued until the permanent drainage facilities have been constructed and until the project is accepted.

Unless otherwise approved in writing by the Engineer, construction operations in rivers, streams, and impoundments shall be restricted to those areas where channel changes are shown on the Plans and to those areas which must be entered for the construction of temporary or permanent structures. Rivers, streams, and impoundments shall be promptly cleared of all falsework, piling, debris, or other obstructions placed therein or caused by the construction operations.

Excavation from the roadway, channel changes, cofferdams, etc., shall not be deposited in or so near to rivers, streams, or impoundments that it will be washed away by high water or runoff.

Frequent fording of live streams with construction equipment will not be permitted; therefore, temporary bridges or other structures shall be used wherever an appreciable number of stream crossings are necessary. Unless otherwise approved in writing by the Engineer, mechanized equipment shall not be operated in live streams except as may be required to construct channel changes and temporary or permanent structures.

The location of all material pits, other than commercially operated sources, and all waste areas shall be subject to the approval of the Engineer, and construction operations in these areas shall be so scheduled and conducted that during and after completion of the work, erosion will not result in water pollution.

(2) Pollution - The Contractor shall exercise every reasonable precaution throughout the life of the Project to prevent pollution of rivers, streams, or impoundments. Pollutants such as chemicals, fuels, lubricants, bitumens, raw sewage, and other harmful waste shall not be discharged into or alongside of rivers, streams, impoundments or into natural or man-made channels leading thereto. The Contractor shall also

comply with the applicable regulations of the Department of Natural Resources and other statutes relating to the prevention and abatement of pollution.

(3) Basis of Payment - Except when pay items are specifically described and furnished as pay items in 642, Temporary Project Water Pollution Control, (West Virginia Department of Highways Standard Specifications Road and Bridges, Adopted 1982), the water pollution and erosion and siltation control requirements set forth herein shall be at the expense of the Contractor.

8.22. Plant Pest Regulations. -- The indiscriminate movement of nursery stock, hay or straw mulch, equipment and soil samples into and out of West Virginia constitutes a potential hazard to State and National Agriculture. Therefore, it shall be the responsibility of the prime Contractor to comply with all applicable State and Federal Plant Pest Regulations in the fulfillment of this contract.

Information regarding these regulations may be obtained from Plant Pest Control Division, West Virginia Department of Agriculture, Charleston, West Virginia 25305, or United States Department of Agriculture, Agriculture Research Service, Plant Pest Control Division, P. O. Box 1257, Roanoke, Virginia 24001.

8.23. Air Pollution Control. -- The Contractor shall exercise every reasonable precaution throughout the life of the

project to keep air pollution to a minimum. The Contractor shall also comply with the applicable regulations of the West Virginia Air Pollution Control Commission. During times of limited dispersion, construction operations may be suspended.

All plants in West Virginia producing bituminous concrete for the Department shall obtain a permit or certification from the West Virginia Air Pollution Control Commission.

Section 9. Prosecution and Progress

9.01. Subletting of Contract. -- The Contractor shall not sublet, sell, transfer, assign, or otherwise dispose of the Contract or Contracts or any portion thereof, or of his right, title, or interest therein, without written consent of the Engineer. In case such consent is given, the Contractor will be permitted to sublet a portion thereof but shall perform, with his own organization, work amounting to not less than 50 percent of the total contract cost, except that any items designated in the Contract as "speciality items" may be performed by subcontract and the cost of any such specialty items so performed by subcontract may be deducted from the total cost before computing the amount of work required to be performed by the Contractor with his own organization. No subcontracts, or transfer of contract, shall in any case release the Contractor of his liability under the Contract and Bonds.

9.02. Notice to Proceed. -- The "Notice to Proceed" will stipulate the date on which it is expected the Contractor shall begin the construction and from which date contract time will be charged. Commencement of work by the Contractor may be deemed and taken as a waiver on his part of this notice.

9.03. Prosecution of the Work. --

(1) General - The Contractor shall provide sufficient materials, equipment, and labor to guarantee the completion of the project in accordance with the Plans and Specifications within the time set forth in the Proposal. Should the prosecution of the work for any reason be discontinued, the Contractor shall notify the Engineer at least 24 hours in advance of resuming operations.

The Contractor shall furnish a schedule showing how he proposes to prosecute the work to complete the project by the date set for completion. The schedule shall be either a bar-graph type conforming to the requirements of section 9.03(2) or a network schedule conforming to the requirements of section 9.03(3). Progress schedules will not be required for the following types of projects, unless requested by the Engineer:

- i. Projects for which the time for completion is 30 working days or less, or for which the date set for completion is 45 calendar days or less.

- ii. Projects for which the time for completion is 60 working days or less, or for which the date set for completion is 90 calendar days or less, and the major portion of the work is resurfacing, landscaping, signing, lighting, installing signals, guardrail, or bridge painting.

(2) Progress Schedule - When the Contractor elects to use the bar-graph type of schedule, the Contractor shall submit, at the pre-construction conference, three (3) copies of the progress schedule on forms provided by the Department. The progress schedule shall show the Contractor's best estimate of the time required to prosecute the several items of work, and shall incorporate any contract requirements regarding the order of performance of the work. The Contractor shall use all practical means to make the progress of the work conform to that shown on the progress schedule.

The progress schedule shall include a bar-graph for each activity, showing graphically the calendar time each activity is scheduled for work. The percent complete for each activity for each month, based on the monetary value of the work, shall be listed in numbers above the bar-graph.

During the progress of the work, if the Contractor's operations are materially affected by changes in the plan or in the amount of work, or if the Contractor has

failed to comply with the approved schedule, the Contractor shall submit a revised progress schedule showing how he proposes to prosecute the balance of the work. Such revised progress schedule shall either be initiated by the Contractor and submitted by the Contractor to the Department with a formal request in writing for approval, or shall be prepared and submitted by the Contractor when requested to do so by the Engineer. The Contractor shall submit the revised progress schedule within ten (10) days after the date of the request.

(3) Network Scheduling - When the Contractor elects to use the network scheduling approach, the work shall be scheduled by the Critical Path Method (CPM), Project Evaluation and Review Technique (PERT), or other approved method.

The scheduling of construction is the responsibility of the Contractor. The Contractor shall take into consideration all conditions facing him in carrying out the work, and shall schedule the work to complete it by the required completion date.

Network diagrams shall be prepared on paper not exceeding 24 inches in width and not more than 36 inches in length. Diagrams shall show the order and interdependence of activities, and the sequence and quantities in which the work is to be accomplished as planned by the Contractor. The critical path shall be distinguished from other paths on the network.

The Contractor shall submit for approval three (3) copies of a preliminary plan and schedule of contract operations, using network diagrams, at the pre-construction conference. The network will be reviewed by the Department for logic and conformance to the requirements as set forth herein, and for the conformance to any special notations in the Plans pertaining to sequence of operations and seasonal limitations. After evaluation by the Department, the network will be returned to the Contractor either approved or with recommended changes. The Contractor shall resubmit four (4) copies of the finalized network schedule within three (3) weeks, including mailing time involved, after receipt of the preliminary schedule returned by the Department.

During the progress of the work, if major changes develop which necessitate changes in the original plan, the Contractor shall change the network schedule so as to show the current mode of operation. Such change shall either be made by a formal request in writing by the Contractor to the Department, or when requested to do so by the Engineer. Schedule changes will be handled in the same manner, including time requirements for processing, as the original submission.

(4) Progress Reports - The Contractor shall submit each month a report of actual progress of the work. These progress reports shall be made for all projects for which either a progress schedule or network scheduling is required.

The reports shall be made on forms provided by the Department, and shall show the percent complete for the total Contract and for each activity listed on the progress schedule or network schedule. The percentage figures shall be based on the monetary value of the work completed. The first report shall cover the work completed from the beginning of the project until the end of the first full month after the notice to proceed is issued. Subsequent reports shall show the total percent complete from the beginning of the work to the end of the month for which the report is prepared. All reports shall be submitted within seven days after the end of the month.

9.04. Limitation of Operations. -- The Contractor shall conduct the work at all times in such manner and in such sequence as will assure the least interference with traffic. He shall have due regard to the location of detours and to the provisions for handling traffic. He shall not open up work to the prejudice or detriment of work already started, and the Engineer may require the Contractor to finish a section on which work is in progress before work is started on any additional sections if the opening of such section is essential to public convenience.

9.05. Character of Workmen; Methods and Equipment. -- The Contractor shall at all times employ sufficient labor and equipment for prosecuting the several classes of work to full

completion in the manner and time required by these Specifications.

All workmen shall have sufficient skill and experience to perform properly the work assigned to them. Workmen engaged in special work or skilled work shall have sufficient experience in such work and in the operation of the equipment required to perform all work properly and satisfactorily.

Any person who, in the opinion of the Engineer, does not perform his work in a proper and skillful manner or is intemperate or disorderly shall, at the request of the Engineer, be removed forthwith. Any Contractor or his subcontractor employing such person shall not reemploy such person on the project without the written approval of the Engineer.

Should a Contractor fail to remove such person or persons as required above, or fail to furnish suitable and sufficient personnel for the proper prosecution of the work, the Engineer may suspend the work by written notice until such order is complied with.

All equipment which is proposed to be used on the work shall be of sufficient size and in such mechanical condition as to meet requirements of the work and to produce a satisfactory quality of work. Equipment used on any portion of the project shall be such that no injury to the roadway, adjacent property, or other highways will result from its use.

When the methods and equipment to be used by the Contractor in accomplishing the construction are not prescribed in the Contract, the Contractor is free to use any methods or equipment that he demonstrates to the satisfaction of the Engineer will accomplish the contract work in conformity with the requirements of the Contract.

When the Contract specifies that the construction be performed by the use of certain methods and equipment, such methods and equipment shall be used unless others are authorized by the Engineer. Should the Contractor desire to use a method or type of equipment other than specified in the Contract, he shall request authority from the Engineer to do so. The request shall be in writing and shall include a full description of the methods and equipment proposed to be used and an explanation of the reasons for desiring to make the change. If approval is given, it will be on the condition that the Contractor shall be fully responsible for producing construction work in conformity with contract requirements. If, after trial use of the substituted methods or equipment, the Engineer determines that the work produced does not meet contract requirements, the Contractor shall discontinue the use of the substitute methods or equipment and shall complete the remaining construction with the specified methods or equipment. The Contractor shall remove the deficient work and replace it with work of specified quality, or take such other

corrective action as the Engineer may direct. No change will be made in basis of payment for the construction items involved nor in contract time as result of authorizing a change in method or equipment under these provisions.

9.06. Determination and Extension of Contract Time. --

(1) General - Contract time will be determined by the Department and specified in the Contract in working days or as a fixed calendar date. No request for an extension of time will be considered that is based on any claim that the contract period as originally established was inadequate.

(2) Extension of Contract Time - The number of days for performance allowed in the Contract is based on the original quantities as defined in section 3.04. If satisfactory fulfillment of the Contract requires performance of work in greater quantities than those set forth in the Proposal, the contract time allowed for performance will be increased on a basis commensurate with the amount and difficulty of the added work.

When the notice to proceed is delayed more than 55 days after the letting of the Contract due to delays which are the responsibility of the Department, the Contractor will be given an extension of the time equal to the amount of the delay in excess of 55 days.

When the notice to proceed is delayed by acts or omissions which are the responsibility of the Contractor, such

as failure to make a prompt submission of an acceptable on-the-job training program or temporary pollution control program as required, an extension of time will not be granted for this delay. The normal time required for the Department to take action on required programs submitted by the Contractor is considered to be seven calendar days after receipt of the program.

If the Contractor finds it impossible for reasons beyond his control to complete the work within the contract time as specified or as extended in accordance with the provision herein, he may, at any time prior to the expiration of the contract time as specified or as extended, make a written request to the Engineer for an extension of time, setting forth therein the reasons which he believes will justify the granting of his request. If the Engineer finds that the work was delayed because of conditions beyond the control and without the fault of the Contractor, he may extend the time for completion in such amounts as the conditions justify. The extended time for completion shall then be in full force and effect the same as though it were the original time for completion.

Delays in obtaining materials which are classified as critical due to the national defense efforts will be given consideration for an extension of time. Time extension for delays in delivery of other materials or energy will not be

given consideration unless some unusual market condition such as an industrywide strike, natural disaster or areawide shortage arises after bids are taken and prevents procurement of materials within the contract time limitations. In order for any consideration to be given for delays resulting from the Contractor's inability to procure materials when needed, the Contractor shall furnish documentation supporting that shortages exist and that delays are being caused by the shortages. The Contractor shall notify the Department immediately when a certain shortage of materials is delaying the work and shall take all possible steps to alleviate the shortage.

Losses of time due to acts of God, acts of the Department, strikes, freight embargoes, adverse weather in excess of 20 percent of the working days each month, and a state of national emergency may be given consideration for time extension.

When the work is substantially complete so that it could be opened to the safe and convenient use of the traveling public, as determined by the Engineer, time charges may be discontinued prior to final acceptance being made by the Engineer as prescribed in section 6.16.

From April 1st to November 30th, consideration will be given to loss of time due to weather only for the number of days lost each month in excess of 20 percent of the total

number of working days, as defined in section 2.02(55) each month. Time extension for adverse weather will not be granted after the completion date. No consideration will be given for loss of time due to weather conditions or floods between November 30th of one year and April 1st of the following year.

When the contract time is on a working day basis, the Engineer will furnish the Contractor a weekly statement showing the number of days charged to the Contract for the preceding week and the number of days specified for completion of the Contract. The Contractor will be allowed one week in which to file a written protest setting forth in what respect the weekly statement is considered incorrect; otherwise, the statement will be deemed to have been accepted by the Contractor as correct.

9.07 Failure to Complete on Time and Liquidated Damages. -- Time is an essential element of the Contract and it is important that the work be completed within the time specified. The cost to the Department of the administration of the Contract, including engineering, inspection and supervision, will increase as the time required to complete the work is increased.

Therefore, the Department will assess liquidated damages against the Contractor for each calendar day that any work remains uncompleted after the contract time specified for completion of the work, subject to such extensions of Contract

time as may be allowed by section 9.06. The calendar day, as defined in section 2.02(5), will be used for the purpose of assessing liquidated damages for all contracts, including Contracts where the Proposal specifies a date for completion, and Contracts where the Proposal specifies the number of working days. The total amount of such liquidated damages, calculated from the schedule shown below, will be deducted from any monies due the Contractor, not as a penalty, but as liquidated damages.

SCHEDULE OF LIQUIDATED DAMAGES

ORIGINAL CONTRACT AMOUNT		DAILY CHARGE
From More Than	To and Including	
\$ 0	\$ 25,000	\$ 30
25,000	50,000	50
50,000	100,000	75
100,000	500,000	100
500,000	1,000,000	150
1,000,000	2,000,000	200
2,000,000		300

9.08. Default and Termination of Contract. -- If the Contractor:

- i. fails to begin the work under the Contract within the time specified in the "Notice to Proceed",
- ii. fails to perform the work with sufficient workmen and equipment or with sufficient materials to assure the prompt completion of the work,

- iii. performs the work unsuitably or neglects or refuses to remove materials or to perform anew such work as may be rejected as unacceptable and unsuitable, and
- iv. discontinues the prosecution of the work,
- v. fails to resume work, which has been discontinued, within a reasonable time after notice to do so,
- vii. allows any final judgment to stand against him unsatisfied for a period of ten (10) days,
- viii. makes an assignment for the benefit of creditors, or
- ix. for any other cause whatsoever, fails to carry out the contract terms in an acceptable manner,

the Engineer will give notice in writing to the Contractor and his surety of such delay, neglect or default.

If the Contractor or Surety, within a period of ten (10) days after such notice, shall not proceed in accordance therewith, then the Department will, upon written notification from the Engineer of the fact of such delay, neglect or default and the Contractor's failure to comply with such notice, have full power and authority, without violating the Contract, to take the prosecution of the work out of the hands of the Contractor. The Department may appropriate or use any or all

materials and equipment on the ground as may be suitable and acceptable and may enter into an agreement for the completion of the Contract according to the terms and provisions thereof, or use such other methods as in the opinion of the Engineer will be required for the completion of the Contract in an acceptable manner.

All cost charges incurred by the Department, together with the cost of completing the work under Contract, will be deducted for any monies due or which may become due the Contractor. If such expense exceeds the sum which would have been payable under the Contract, then the Contractor and the surety shall be liable and shall pay to the Department the amount of such excess.

9.09. Termination of Contract for Convenience of the State. -- The performance of work under a Contract may be terminated by the State in whole, or from time to time in part whenever the Commissioner with the approval of the Federal Highway Administration, where applicable, shall determine that such termination is in the best interest of the State. Any such termination shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which performance of work under the Contract is terminated and the date upon which such termination becomes effective.

When Contracts, or any portion thereof, are terminated before completion of all items of work in the Contract, payment

will be made for the actual number of units or items of work completed at the Contract unit price, or as mutually agreed for items of work partially completed or not started. No claim for loss of anticipated profits will be considered.

Reimbursement for organization of the work, when not otherwise included in the Contract, and moving equipment to and from the job will be considered where the volume of work completed is too small to compensate the Contractor for these expenses under the Contract unit prices, the intent being that an equitable settlement will be made with the Contractor.

Termination of a Contract or a portion thereof shall not relieve the Contractor of his responsibilities for the completed work, nor shall it relieve his surety of its obligation for and concerning any just claims arising out of the work performed.

Section 10. Measurement and Payment

10.01. Measurement of Quantities. -- All work completed under the Contract will be measured by the Engineer according to United States standard measure.

The method of measurement and computations to be used in determination of quantities of materials furnished and of work performed under the Contract will be those methods generally recognized as conforming to good engineering practice.

Unless otherwise indicated, the requirements prescribed hereinafter shall govern.

Earthwork will be computed by the average end area method, using the horizontal length measured along the centerline as the distance between sections, applying corrections for curvature where the apparent error exceeds 25 percent of the volume in any one cut. Other acceptable methods may be used.

Unless otherwise specified, longitudinal measurements for area computations will be made horizontally and no deductions will be made for individual fixtures having an area of nine square feet or less. Unless otherwise specified, transverse measurements for area computations will be the neat dimensions shown on the Plans or ordered in writing by the Engineer.

Structures will be measured according to neat lines shown on the Plans or as altered to fit field conditions.

All items which are measured by the linear foot, such as pipe culverts, guardrail, underdrains, etc., will be measured parallel to the base or foundations upon which such structures are placed.

The term "gage," when used in connection with the measurements of plates, will mean the U. S. Standard Gage.

The galvanized sheet thicknesses to be used in the manufacture of metal cribbing, corrugated iron or steel culvert pipe, underdrain pipe, metal pile, pipe arches, plate pipe arches and plate arches shall be as specified in AASHTO M 36 or

AASHTO M 167. The sheet thicknesses to be used in the manufacture of corrugated aluminum alloy culvert pipe, underdrain pipe, plate pipe, pipe arches, plate pipe arches and plate arches shall be as specified in AASHTO M 196 or AASHTO M 219.

The "size number" used in the measurement of wire will be as specified in AASHTO M 32 or AASHTO M 225.

The term ton will mean the short ton consisting of 2,000 lb. avoirdupois. All materials which are measured or proportioned by weight shall be weighed on accurate, approved scales by competent, qualified personnel at locations designated by the Engineer. Scales for weighing shall be of either the beam type or the springless-dial type. They shall be accurate within 0.5 percent throughout the range of use. Poises shall be designed to be locked in any position to prevent unauthorized change of position. The minimum graduation on the beam or dial shall not be greater than 0.2 percent of the rated capacity of the scale. When the beam type scales are used, provisions for a "telltale" dial shall be made for indicating to the operator that the required load in the weighing hopper is being approached. A device on the weighing beams shall clearly indicate the critical position.

If material is shipped by rail, the car weight may be accepted provided the actual weight of material only will be paid for. However, car weights will not be acceptable for

material to be passed through mixing plants. Trucks used to haul materials being paid for by weight shall be weighed empty prior to each load, except at automatic batch plants approved to operate without truck scales.

Devices, used to meter or measure component or other materials in a simultaneous manner, shall be located so as to be readily accessible and visible to a single Inspector, unless otherwise directed by the Engineer.

Materials to be measured by volume in the hauling vehicle shall be hauled in approved vehicles and measured therein at the point of delivery. Vehicles for this purpose may be of any size or type acceptable to the Engineer, provided that the body is of such shape that the actual contents may be readily and accurately determined. All vehicles shall be loaded to at least their water level capacity, and all loads shall be leveled when the vehicles arrive at the point of delivery.

When requested by the Contractor and approved by the Engineer in writing, material specified to be measured by the cubic yard may be weighed and such weights will be converted to cubic yards for payment purposes. Factors for conversion from weight measurement to volume measurements will be determined by the Engineer and shall be agreed to by the Contractor before such method of measurement of pay quantities is used.

When bituminous material is measured by volume, the measured volume at loading temperature shall be converted to

volume at 60F using the temperature correction factors in 705 (West Virginia Department of Highways Standard Specifications, Roads and Bridges, Adopted 1982) for asphaltic materials and 706 (West Virginia Department of Highways Standard Specifications, Roads and Bridges, Adopted 1982) for tar materials, except that when volume is measured by an approved temperature compensated metering device, no further volume correction for temperature shall be required. When bituminous material is measured by weight, the actual specific gravity, API gravity, or weight per gallon of the material shall be used to convert the measured weight to volume at 60F. The Contractor shall furnish all information necessary as determined solely by the Department to determine the amount of bituminous material actually incorporated into the project.

Net certified scale weights or weights based on certified volumes in the case of rail shipments will be used as a basis of measurement, subject to correction when bituminous material has been lost from the car or the distributor, wasted, or otherwise not incorporated in the work.

When bituminous materials are shipped by truck or transport, net certified weights or volume, subject to correction for loss or foaming, may be used for computing quantities.

Cement will be measured by the cwt (hundredweight = 100 lb). For the purpose of determining the total amount used in the mixture, one bag of cement shall be considered as weighing 0.94 cwt, and one barrel of cement shall be considered as weighing 3.76 cwt.

Timber will be measured by the thousand feet board measure (mfbm) actually incorporated in the structure. Measurement will be based on nominal widths and thickness and the extreme length of each piece.

The term "lump sum" when used as an item of payment will mean complete payment for the work described in the Contract.

When a complete structure or structural unit (in effect, "lump sum" work) is specified as the unit of measurement, the unit will be construed to include all necessary fittings and accessories.

When standard manufactured items are specified such as fence, wire, plates, rolled shapes, pipe conduit, etc., and these items are identified by gage, unit weight, section dimensions, etc., such identification will be considered to be nominal weights or dimensions. Unless more stringently controlled by tolerances in cited specifications, manufacturing tolerances established by the industries involved will be accepted.

10.02. Scope of Payment. -- The Contractor shall receive and accept compensation provided for in the Contract as full

payment for furnishing all materials and for performing all work under the Contract in a complete and acceptable manner and for all risk, loss, damage, or expense of whatever character arising out of the nature of the work or the prosecution thereof, subject to the provisions of section 8.20.

If the "Basis of Payment" clause in the Specifications relating to any unit price in the bid schedule requires that the unit price cover and be considered compensation for certain work or material essential to the item, this work or material will not also be measured or paid for under any other pay item which may appear elsewhere in the Specifications, except as provided in section 5.06.

When the Contract specifies payment of an item or of a portion of an item on a plan quantity basis, the quantities for payment will be those shown on the Plans with deductions from or additions to such quantities resulting from authorized deviations from the Plans.

If the Contractor believes that a quantity which is specified for payment on a plan quantity basis is incorrect, he may request the Department in writing to check the questionable quantity. The request shall be accompanied by calculations, drawings, or other evidence indicating why the plan quantity is believed to be in error. If the plan quantity is found to be in error, payment will be made in accordance with the corrected plan quantity.

The Department reserves the right to check the quantity of an item which is specified for payment on a plan quantity basis if there is reason to believe that it is inaccurate. If the quantity is found to be in error, payment will be made in accordance with the corrected plan quantity.

Should the Department determine during construction that conditions have varied from those anticipated in design to the extent that actual measurement of a plan quantity item is warranted, the Department will make such measurement, and payment will be based thereon in lieu of the plan quantity.

(1) General Basis of Adjusted Payment -

(a) Single Deficiency: In the case of the single characteristic deficiency, the resulting deficiency shall be used directly to determine an adjusted price.

(b) Multiple Deficiency: In the case of a multiple deficiency, the related adjusted percentage of Contract price as determined by the acceptance plan for each characteristic shall be determined and the resulting percent of Contract price to be paid shall be the product of these related adjusted percentages.

(2) Basis of Charges for Additional Testing - When additional acceptance testing is performed by the Department for reworked lots or sublots in accordance with section 7.02 the cost of such testing will be deducted on current estimates from the amount due the Contractor by the Department. The cost

of such testing will be determined in accordance with the unit costs per test as shown in Table 9-1, published in MP 109.00.20.

10.03. Compensation for Altered Quantities. -- When the accepted quantities of work vary from the quantities in the bid schedule, the Contractor shall accept as payment in full, so far as Contract items are concerned, payment at the original Contract unit price for the accepted quantities of work done. No allowance except as provided in section 5.02 will be made for any increased expense, loss of expected reimbursement, or loss of anticipated profits suffered or claimed by the Contractor resulting either directly from such alterations or indirectly from unbalanced allocation among the Contract items of overhead expense on the part of the bidder and subsequent loss of expected reimbursements therefore or from any other cause.

Increased work involving supplemental agreements will be paid for as stipulated in such agreements. The Contractor shall furnish substantiating data required in the preparation of these agreements.

10.04. Extra and Force Account Work. -- Extra work performed in accordance with the requirements and provisions of section 5.03 will be paid for at the unit prices or lump sum stipulated in the order authorizing the work, or the Department

may require the Contractor to do such work on a force account basis to be compensated in the manner hereinafter prescribed.

(1) Labor - For all Contractors' or subcontractors' labor and foremen in direct charge of the specific force account operations, the Contractor or subcontractor shall receive the current local rate of wage, to be agreed upon in writing before starting such work, for each and every hour that the labor and foremen are actually engaged in such work; to which shall be added amount equal to 40 percent of the sum thereof; and no compensation will be allowed for general superintendence.

(2) Materials - For all materials used in the specific force account operation, either by the Contractor or subcontractor, when incorporated into the project, the Contractor or subcontractor shall receive the actual cost of such material, including freight charges, if any, as shown by invoice showing actual cost to Contractor, to which shall be added a sum equal to 20 percent thereof. All materials paid for will become the property of the Department.

(3) Equipment - For any equipment including machinery, trucks, pumps, compressors, and other equipment, mutually deemed necessary, to be agreed upon in writing before the work is begun, the Engineer will allow the Contractor rental rates computed as follows:

For equipment not owned by the Contractor or subcontractor, the hourly rental rate will be that paid by the Contractor or subcontractor, supported by invoice showing actual cost to the Contractor. For profit and overhead, 15 percent of the amount payable for rented equipment may be added.

For needed equipment owned by the Contractor or subcontractor, the hourly rental rate will be an agreed amount not to exceed the current published rental rate authorized for use by the Department, determined by dividing the current authorized published monthly rate by 176 and applying the current authorized published area adjustment factor. No profit or overhead will be added in connection with the use on Contractor or subcontractor owned equipment.

For needed equipment either rented or owned by the Contractor or subcontractor, an allowance will be made for operating cost for each hour the machinery or equipment is actually operating in accordance with the current published estimated operating cost per hour authorized for use by the Department. The area adjustment factor will not be applied to the operating cost. The operating cost includes fuel, lubricants, and other operating expendables, including the percentage of mechanic's wages and related maintenance vehicles chargeable to preventive and field maintenance. If the

machinery or equipment is required to be at the work site but not operating, the Contractor may be compensated at the authorized hourly rental rate exclusive of the operating cost.

In the case of any machinery or equipment owned by the Contractor or subcontractor not referred to in the current published rental rate authorized for use by the Department, the hourly rental rate will be an agreed amount not to exceed the hourly rate computed as follows: A monthly rate shall be computed on the basis of an amount that is equivalent to six percent of the manufacturer's list price for the sale (new) of such equipment. The hourly rate in such cases shall be determined by dividing the monthly rate by 176. Operating costs in such cases shall be a reasonable agreed amount for each hour the machinery or equipment is actually operating.

For all equipment either rented or owned by the Contractor or subcontractor, the rental rates and operating costs allowed include full compensation for repairs of all types, including major repairs, repairs due to normal wear and tear, and preventive maintenance. No separate payment will be made for any type of repairs to equipment.

When a Contractor or subcontractor rents equipment from a rental agency which he owns or in which he is part owner, the equipment will be treated as Contractor owned equipment.

For equipment either rented or owned by the Contractor or subcontractor, freight costs covering the moving of such equipment to and from the specific force account operation will be paid. The cost shall be supported by invoice showing actual cost to Contractor. The freight costs will be paid from the nearest source of available equipment. If the equipment is not returned to the Contractor's or subcontractor's nearest equipment storage lot, but is moved to other work, then only the cost of return to the storage lot will be paid. The movement to and from the specified force account operation will be as directed by the Engineer.

The necessary and required equipment will be inspected and start its rental time on the project in good condition. All equipment must be in good operating condition to qualify for rental payment. The equipment shall be brought to the specific force account operation and rental time begun not more than 24 hours prior to its required use. Upon the completion of the equipments' specified use, the equipment rental rate shall cease, unless by previously agreed schedule the equipment will be required at a later time.

(4) Taxes - When the work is done by the Prime Contractor, the amount of state and municipal business and occupation (B & O) taxes related to the force account work required to be paid by the Prime Contractor will be reimbursed to the Prime Contractor, with no percentage increase.

When the work is done by a subcontractor, the amount of state and municipal B & O taxes related to the force account work, limited as described below, required to be paid by both the Prime Contractor and the subcontractor, will be reimbursed to the Prime Contractor, with no percentage increase. The B & O taxes incurred by each the Prime Contractor and the subcontractor shall be limited for reimbursement to the amount of the B & O taxes on the gross amount of the force account work, exclusive of B & O taxes, so that in no case will tax be paid on tax.

(5) Contract Bond - The cost of premiums for Contract bond required by section 4.05 which is extra cost and related to the force account work will be paid to the Contractor, with no percentage increase.

(6) Insurance - The cost of premiums for Contractor's Public Liability and Property Damage Liability Insurance required by section 4.07 which is extra cost and related to the force account work will be paid to the Contractor, with no percentage increase.

When the force account work involves a railroad and the Contractor is required to carry Railroad's Protective Public Liability Insurance or Railroad's Protective Property Damage Liability Insurance, or both, the cost of premiums for this insurance which is extra cost and related to the force account work will be paid to the Contractor, with no percentage increase.

(7) Administrative Allowance - When force account work is performed by an approved subcontractor:

- i. The Prime Contractor will be allowed an amount equal to five percent of the first \$20,000.00 and one percent of all over \$20,000.00 of the total amount paid for the force account work, exclusive of amounts paid for bond, insurance and taxes, per change order.
- ii. The Prime Contractor will be allowed the actual cost to him of premiums for Contractor's Protective Public Liability and Property Damage Liability Insurance required by section 4.08 to be carried by the Prime Contractor with respect to operations performed for him by subcontractors, for the force account work.

(8) Records - The Contractor's representative and the Engineer shall compare records daily of the cost of work done as ordered on a force account basis, and shall indicate agreement by signature on such records.

No payment will be made for work performed on a force account basis until the Contractor has furnished the Engineer with duplicate itemized statements of the cost of such force account work detailed as follows:

- i. Name, classification, date, daily hours, total hours, rate and extension for each laborer and foreman.
- ii. Designation, dates, daily hours, total hours, rental rate, operating cost, and extension for each unit of machinery and equipment.
- iii. Quantities of materials, prices and extensions.
- iv. Transportation of materials.

Statements shall be accompanied and supported by invoices showing actual cost to the Contractor for all materials used and transportation charges; however, if materials used on the force account work are not specifically purchased for such work but are taken from the Contractor's stock, then in lieu of the invoices the Contractor shall furnish an affidavit certifying that such materials were taken from his stock, that the quantity claimed was actually used, and that the price and transportation claimed represent actual cost to the Contractor.

(9) Basis of Payment - The compensation provided in section 10.04(1) to 10.04(7), inclusive, shall be received by the Contractor as payment in full for extra work done on a force account basis, including all labor, materials, equipment, fuel, lubricants, maintenance of equipment, administration, overhead, use of small tools and equipment for which no rental

is allowed, profit, taxes, premium on bonds and insurance, unemployment contributions and any other expense arising from the performance of the Force Account Work Order.

10.05. Eliminated Items. -- Should any items contained in the proposal be found unnecessary for the proper completion of the work, the Engineer may, upon written order to the Contractor, eliminate such items from the Contract, and such action will in no way invalidate the Contract. When a Contractor is notified of the elimination of items, he will be reimbursed for actual work done and all costs incurred, including mobilization of materials prior to the notification.

10.06. Partial Payments. -- The Engineer will make current estimates in writing, once each month on or before the date set by the Engineer at the time of starting the work, or from time to time as the work progresses, of the materials complete in place and the amount of work performed in accordance with the Contract, during the preceding month or period and the value thereof figured at the unit prices contracted. Current estimates may be prepared for payment on a semi-monthly basis at the discretion of the Engineer when the amount due the Contractor for work during the semi-monthly period exceeds \$10,000. Should there be any doubt by the Engineer as to the integrity of any part of the completed work, the estimates for that portion will not be allowed until the cause for such doubt has been removed.

No partial payment will be made when the total value of the work done since the last estimate amounts to less than five hundred dollars.

From the total of the amounts ascertained as payable, an amount equivalent to two percent of the whole will be deducted and retained by the Department until completion of the entire Contract in an acceptable manner. The balance, or an amount equivalent to 98 percent of the whole, less all previous payments, will be certified for payment.

When the work under Contract has been completed and its acceptance is recommended by the Engineer, and upon written request by the Contractor accompanied by proper release by the Contractor's surety, a part of the two (2) percent retained as outlined above, in an amount determined by the Engineer, may be released and paid the Contractor. A minimum of 1/2 percent of the approximate total final Contract amount will be retained until payment of the final estimate.

Substitution of Securities for Retainages:

- i. The Contractor may, from time to time, withdraw the whole or any portion of the amount retained for payments to the Contractor, under the Contract, with the written release from Contractor's surety, pursuant to the terms of the Contract, notwithstanding the provisions above, upon

depositing with the State Treasurer, United States Treasury Bonds, United States Treasury Notes, United States Treasury Certificates of Indebtedness or United States Treasury Bills, or bonds or notes of the State of West Virginia. A safe keeping receipt from a bank located in the State of West Virginia may be deposited with the State Treasurer in lieu of any of the aforementioned definitive securities. No amount shall be withdrawn in excess of the market value of the securities at the time of deposit or of the par value of the securities, whichever is lower.

- ii. The State Treasurer shall, on a regular basis, collect all interest or income on the obligations so deposited and shall pay the same, when and as collected, to the Contractor who deposited the obligations. If the deposit is in the form of coupon bonds, the State Treasurer shall deliver each coupon as it matures to the Contractor.
- iii. Any amount deducted by the State, or by any public department or official thereof, pursuant to the terms of the Contract, from the retainages due the Contractor, shall be

deducted, first from that portion of the retainages for which no security has been substituted then from the proceeds of any deposited security. In the latter case, the Contractor shall be entitled to receive interest, coupons or income only from those securities which remain after such amount has been deducted.

- iv. Any Contractor who has substituted a security or securities for retainages and the same matures before the completion and finalling of the Contract for which the security or securities were substituted for retainages may, from time to time, substitute another security or securities for the one or ones having so matured in the same manner that the original security or securities were substituted so long as the substituted security or securities are of a kind designated in (i) above, of equal value to the matured security or securities for which it is substituted. All interest and income accruing on such substituted security or securities shall be collected and paid and the security or securities themselves shall

be held, handled and delivered by the State Treasurer in the same manner, as is provided in (ii) and (iii) above, for the original security or securities deposited.

10.07. Payment for Material on Hand. -- Partial payment may be made to the extent of the delivered costs of material to be incorporated into the work, provided the material meets the requirements of the Plans and Specifications when delivered in the vicinity of the project or at approved off-site locations. In any event, partial payment for material on hand will not exceed the bid price. Such material shall be stored in acceptable storage places, and the Contractor shall furnish evidence of payment for material stored at off-site locations prior to payment for this material by the Department. Evidence of payment for material delivered in the vicinity of the project must be furnished within 90 days of the cut-off date of the estimate on which this material was first paid.

10.08. Acceptance and Final Payment. -- When the project has been accepted, as provided in section 6.16, the Engineer will prepare the final estimate of the quantities of the various classes of work performed. After approval of such final estimate by the Contractor, he will be paid the entire sum found to be due after deducting all previous payments and all amounts to be retained or deducted under the provisions of the Contract.

All prior partial estimates and payments will be subject to correction in the final estimate and payment. Payment of interest on Contracts when final payment is delayed will be subject to the provisions of Chapter 14, Article 3, Section 1 of the Official Code of West Virginia, 1931, as amended, which is quoted in part below:

"Within one hundred fifty days after the approving authority notifies the Contractor, in writing, of the final acceptance by such approving authority of the project for which this Contract provides, the balance due the Prime Contractor shall be paid in full. Should such payment be delayed for more than one hundred fifty days beyond the date that the approving authority notifies the Contractor of the final acceptance of the project in accordance with the terms of the Contract and the plans and specifications thereof, said Prime Contractor shall be paid interest, beginning on the one hundred fifty-first day, at the rate of six per centum per annum on such unpaid balance: Provided, that if the Prime Contractor does not agree to the amount of money determined by the approving authority to be due and owing to the Prime Contractor and set forth on the final estimate document, and the approving authority makes an offer to pay the amount of the final estimate to the said Prime Contractor, then the Prime Contractor shall not be entitled to receive any interest on the amount set forth in the said final estimate, but shall only be

entitled to the payment of interest at the rate of six per centum per annum on the amount of money finally determined to be due and owing to the said Prime Contractor, less the amount of the final estimate that the approving authority had originally offered to pay to the said Prime Contractor."

Section 11. Miscellaneous Provisions

11.01. Common Carrier Rates. -- The common carrier rates and taxes thereon which are current on the date of opening the bids shall be considered as applicable to all items subject to transportation charges thereunder.

If such rates or taxes are thereafter increased by public authority on any materials entering into and forming a part of the Contract, an amount equal to the sum of all such increases, when evidenced by receipted common carrier bills, will be paid to the Contractor by the Department. All claims for such payments shall be made within 60 days after final acceptance of the work.

If such rates or taxes thereafter reduced by public authority on any materials entering into and forming a part of the Contract, an amount equal to the sum of all such decreases, when evidenced by receipted common carrier bills, will be deducted by the Department from the monies due the Contractor on the work performed under the Contract.

When deliveries of materials are performed by means other than common carriers, an increase or decrease in price will not be allowed or charged for changes in rates or methods of delivery.

11.02. Minimum Wage Determinations. -- When the Proposal contains both U. S. Department of Labor and West Virginia Department of Labor Wage Rates, the minimum wage rates for the Contract shall be the higher of the rates for each job classification.

11.03. Nondiscrimination of Employees (Governor's Executive Order). -- During the performance of this Contract for public work or for goods or services, the Contractor agrees as follows:

The Contractor and subcontractors shall provide equal employment opportunity for all qualified persons and shall not discriminate against any employee or applicant for employment because of race, creed, color or national origin.

Contractors and subcontractors are required to give written notice to any labor union with which they have a collective bargaining or other agreement, that they have complied with the requirements of the Executive Orders by the Governor of the State of West Virginia, dated October 16, 1963, and December 15, 1965. These provisions shall be fully and effectively enforced and any breach of them will be regarded as a material breach of the Contract.

11.04. Provisions for West Virginia State Funds

Contracts. --

(1) Application - These Contract provisions shall apply to all work performed on the Contract by the Contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the Contract by piece work, station work, or by subcontract.

(2) Employment Lists, Labor Selection - A local public employment agency will be designated by the State to prepare the employment lists for the project. At, or prior to contract award, the Contractor will be advised of the exact designation and location of the agency selected for this purpose, and the name and location of such agency will be inserted in the Contract.

All qualified unskilled labor shall be employed inasfar as possible from lists furnished to the Contractor by the employment agency designated in the Contract. The Contractor may avail himself of the services of the employment agency for obtaining labor of the intermediate and skilled grade.

In the performance of this Contract, the Contractor shall not discriminate against any worker because of race, creed, color or national origin.

(3) Payrolls - Submission by the Contractor, or subcontractor, of payrolls, or copies thereof, is not required. Each Contractor, or subcontractor, shall preserve his weekly payroll records for a period of three years from the date of completion of this Contract. The payroll records shall set out accurately and completely the project number, name, classification, hourly wage rate of each employee, hours worked by him daily and weekly wages earned by him, any deductions made from such weekly wages, and the actual weekly wages paid to him. Such payroll records shall be made available at all times for inspection by authorized representatives of the Department.

(4) Payment of Predetermined Minimum Wages - The Contract provisions are supplemented elsewhere in the Contract by Special Provisions which set forth the certain predetermined minimum wage rates. The Contractor shall pay not less than these rates.

The wages of all labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by negotiable check, on a solvent bank, which may be readily cashed by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payment, the Contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

The minimum wages specified herein shall be exclusive of any charges for medical examination, medical fees, or insurance, except as specifically required by State Law. No individual employed on the project in other than an administrative position shall be paid less than the minimum rate for unskilled labor.

(5) Subletting or Assigning the Contract - The Contractor shall perform with his own organization work amounting to not less than 50 percent of the remainder obtained by subtracting from the total original contract value the sum of any items designated in the Contract as "Specialty Items".

Any items that have been selected as "Specialty Items" for the Contract are listed as such in the Special Provisions found elsewhere in the Contract.

No portion of the Contract shall be sublet, assigned or otherwise disposed of except with the written consent of the Contracting Officer or his authorized representative. Requests for permission to sublet, assign or otherwise dispose of any portion of the Contract shall be in writing and accompanied by a showing that the organization which will perform the work is particularly experienced and equipped for such work. The Contractor shall give assurance that the minimum wage for labor as stated in his Proposal shall apply to labor performed on all work sublet, assigned or otherwise disposed of in any way. Consent to sublet, assign or

otherwise dispose of any portion of the Contract shall not be construed to relieve the Contractor of any responsibility for the fulfillment of the Contract.

Roadside production of materials is construed to be the production of crushed stone, gravel, or other materials with portable or semiportable crushing, screening or washing plants established or re-opened in the vicinity of the work for the purpose of supplying materials to be incorporated into the work on a designated project or projects and in all cases, unless performed by the Contractor, shall be considered as subcontracting.

The purchase of sand, gravel, crushed stone, crushed slag, batched concrete aggregates, ready mixed concrete or any other materials produced at and furnished from established and recognized commercial plants, together with the delivery of such materials to the site of work by means of vehicles owned or operated by such plants or by recognized commercial hauling companies, shall not be considered as subcontracting under these provisions.

Except as hereinafter stated, all hauling of materials from roadside production sources, or from railroad or water delivery points, to batching plants, mixing plants, or directly to their place of use in the road, and all hauling of materials from batching plants and mixing plants to their place of use in the road, unless done by the Contractor's own

equipment or by recognized hauling companies, shall be considered as subcontracting under these provisions.

If batching plants or mixing plants are set up at rail or water delivery points and materials in part supplied to such plants by rail or water transportation companies, the remaining materials required at such batching or mixing plants may be hauled to such plants without such hauling being considered as subcontracting.