

## **SECTION 100.00 – MISSION AND OBJECTIVES**

### **SECTION 110.00 – MISSION**

110.01 Mission of the Idaho Transportation Department.

110.02 Mission of the Materials Section.

### **SECTION 120.00 – OBJECTIVES**

120.01 Corridor and Environmental Planning.

120.02 Highway Design.

120.03 Highway Construction and Maintenance (Operations).

120.04 Staff Functions.

### **SECTION 130.00 – MATERIALS SECTION ACTIVITIES**

130.01 Testing.

130.02 Project Development.

130.03 Quality Assurance.

130.04 Research.

130.05 Construction and Maintenance Support.

## **SECTION 100.00 – MISSION AND OBJECTIVES**

### **SECTION 110.00 – MISSION**

**110.01 Mission of the Idaho Transportation Department.** To provide high quality, cost-effective transportation systems that are safe, reliable and responsive for the economical and efficient movement of people and products.

**110.02 Mission of the Materials Section.** To support the Department's project development, construction and maintenance programs by providing project level technical support and by developing standards, specifications, design procedures, laboratory and field testing procedures, quality assurance procedures, and documentation requirements to promote consistent implementation of the Department's programs. Maintain centralized laboratory physical, mechanical, and chemical testing capabilities in an AASHTO accredited laboratory for highway materials.

### **SECTION 120.00 – OBJECTIVES**

**120.01 Corridor and Environmental Planning.** Support District efforts through review and consultation on Materials Phase Reports.

**120.02 Highway Design.** Establish procedures for pavement designs based on subgrade characteristics and traffic loadings. Develop and/or assist the districts in developing designs for pavements, slopes, foundations, and subsurface drainage. Establish statewide uniformity of analysis and design methods. Provide consultation and review for district and consultant-prepared materials reports and designs. Provide nondestructive testing on existing pavement for overlay design and to support the pavement management system.

**120.03 Highway Construction and Maintenance (Operations).** Develop and maintain the Department's Quality Assurance Program in accordance with the Code of Federal Regulations, Part 637 of Title 23, including the requirements and standards for materials acceptance (minimum testing requirements), independent assurance and final project materials certification to assure the materials and workmanship incorporated into projects are in conformity with the requirements of the approved plans and specifications. Develop and maintain the Department's Laboratory Qualification Program. Provide construction support through review and analysis of materials-related problems, technical field support and laboratory testing of materials.

Support maintenance activities through review and analysis of materials related problems and laboratory testing of materials.

**120.04 Staff Functions.** Serve as consultant to sections and districts for geotechnical and materials-related engineering, specialized equipment, and materials testing.

**SECTION 130.00 – MATERIALS SECTION ACTIVITIES**

**130.01 Testing.** Test all samples submitted for preliminary testing or quality assurance of highway construction materials.

Maintain complete laboratory facilities for investigative and routine materials testing.

Perform parallel and correlative testing with the District Laboratories to assure statewide uniformity.

Perform correlation testing of samples furnished by AASHTO Materials Reference Laboratory (AMRL), Cement and Concrete Reference Laboratory (CCRL), and other states and/or private laboratories.

Perform deflection, skid, and profile/roughness testing for pavement overlay design.

Support the pavement management system.

Research and develop/revise laboratory tests and equipment.

**130.02 Project Development.** Provide reclamation standards for statewide material source reclamation. Review and approve all aggregate and borrow source reclamation plans.

Assist in the evaluation and acquisition of new materials sources.

Standardize, review, and assist the development of materials phase reports.

Assist with identification of erosion issues and the development of erosion control applications.

Establish policy and procedures for pavement analysis and life cycle cost analyses prepared by the districts, and review for adequacy of cost data and proper design.

**130.03 Quality Assurance.** Establish and maintain a system of materials quality assurance procedures, requirements, and administration, including contract inspection and certification of compliance of materials on construction.

Arrange for outside inspection of materials to be used on construction or maintenance.

Make arrangements for acceptance of specialty materials by appropriate certification or testing.

Review project Final Project Materials Certifications (materials summaries) for compliance with contract standards and coordinate review by FHWA on full-oversight projects.

Monitor project compliance with the Independent Assurance Program.

**130.04 Research.** Coordinate ITD Materials Section Research program.

Coordinate highway material related research.

Develop new and simplified Idaho Standard Practices and Standard Methods of Test.

Research and develop / revise laboratory tests and equipment.

Provide testing for special investigative work on new products and processes.

**130.05 Construction and Maintenance Support.** Support construction activities by making field reviews and providing analyses, recommendations, and details for solution of materials- related construction problems. Provide or assist with training in the use of testing equipment and inspection procedures for district construction personnel.

Develop and/or assist in developing construction specifications.

Participate in the Department construction specifications review committee.

Assist Maintenance with analysis and details concerning slope maintenance and repair, pavement and structure repair, erosion control, and pavement seals and drainage.