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16. Abstract <p>A Specific Pavement Studies (SPS) program, formulated under the Strategic Highway Research Program (SHRP), consists of nine experiments, four of which will be included in this DEL-23 project. Since the basic instrumentation plan proposed by SHRP was limited, Ohio Department of Transportation opted to develop a more comprehensive plan for DEL-23. The Ohio Test Road consists of SPS-1, SPS-2, SPS-8, and SPS-9 experiments, all constructed for this project where the climate, soil, and topography are uniform throughout. In this comprehensive instrumentation plan, thirty-three sections are to be instrumented. LTPP guidelines require four instrumented sections in each of the SPS-1 and SPS-2 experiments for the study of seasonal factors and dynamic response. DEL-23 includes an additional nine instrumented sections for the SPS-1 experiment, twelve sections for the SPS-2 experiment, and two sections each in the SPS-8 and SPS-9 experiments to study structural response parameters. A total of eighteen sections will be instrumented for the study of seasonal factors, ten more sections than required by SHRP.</p> <p>This report provides a detailed description of types of sensors, installation methodology, calibration procedures and wiring schematics for instrumentation of pavements for the Ohio SHRP SPS Test Road to measure environmental factors and structural response. Environmental or climatic parameters include temperature, base and subbase moisture, and frost depth. Structural response parameters entail strain, deflection, pressure, and joint opening.</p>			
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