

## **APPENDIX I**

<b>SECTION I-1-INTRODUCTION .....</b>	I-1
<b>SECTION I-2- BARRIER SYSTEMS AND TERMINALS .....</b>	I-2
W-BEAM GUARDRAIL GENERAL CRITERIA .....	I-2
GR-10 GUARDRAIL OVER CULVERT IN LOW FILLS .....	I-4
HIGH TENSION CABLE .....	I-5
CONCRETE BARRIER .....	I-5
BARRIER TERMINALS GENERAL CRITERIA.....	I-6
GR-3 LOW TENSION CABLE TERMINAL .....	I-7
GR-6 W-BEAM BURIED IN THE CUT SLOPE TERMINAL .....	I-7
GR-7 W-BEAM FLARED TERMINAL .....	I-7
GR-9 W-BEAM TANGENT TERMINAL .....	I-8
GR-11 W-BEAM RUN-OFF ONLY TERMINAL.....	I-8
THRIE-BEAM BULL NOSE BARRIER.....	I-9
MB-9A TURNED DOWN CONCRETE MEDIAN BARRIER TERMINAL.....	I-10
IMPACT ATTENUATORS.....	I-10
<b>SECTION I-3 BARRIER INSTALLTION CRITERIA</b>	
BARRIER WARRANTS .....	I-12
FIXED OBJECTS WITHIN DEFLECTION AREA.....	I-14
PONDS OR OTHER BODIES OF WATER .....	I-14
SHORT GAPS .....	I-14
BARRIER TYPE SELECTION .....	I-14
DETERMINING LOCATION OF THE ENDS OF GUARDRAIL.....	I-17
ASPHALT PAVING UNDER GUARDRAIL .....	I-19
ASPHALT CURBS .....	I-19
GUARDRAIL INSTALLATION ADJACENT TO CURB.....	I-20
<b>SECTION I-4 FIXED OBJECT ATTACHMENTS (FOA) AND BRIDGE GUARDRAIL ATTACHMENTS (BRGR)</b>	
FOA .....	I-23
BRGR .....	I-23
ENTRANCES OR CONNECTIONS ADJACENT TO A BRIDGE .....	I-23
<b>SECTION I-5 SAFETY/MAINTENANCE PROJECTS .....</b>	I-24