TABLE OF CONTENTS

APPENDIX A

| SECTION A-1-GEOMETRIC DESIGN STANDARDS | |
|---|------------------|
| INTRODUCTION | A-1 |
| ROADWAY WIDTH | A-1 |
| DESIGN SPEED | A-2 |
| DESIGN WAIVERS | A-3 |
| DESIGN EXCEPTIONS | A-3 |
| GEOMETRIC DESIGN STANDARDS FOR RURAL PRINCIP | |
| SYSTEM (GS-1)GEOMETRIC DESIGN STANDARDS FOR RURAL MINOR . | |
| | |
| SYSTEM (GS-2)GEOMETRIC DESIGN STANDARDS FOR RURAL COLLEC | |
| SYSTEM (GS-3) | |
| GEOMETRIC DESIGN STANDARDS FOR RURAL LOCAL | |
| (GS-4) | |
| GEOMETRIC DESIGN STANDARDS FOR URBAN PRINCI | PAI ARTERIAI |
| SYSTEM (GS-5) | |
| GEOMETRIC DESIGN STANDARDS-URBAN MINOR ARTE | FRIAL STREET |
| SYSTEM (GS-6) | |
| GEOMETRIC DESIGN STANDARDS FOR URBAN COLLEC | CTOR STREET |
| SYSTEM (GS-7) | |
| GEOMETRIC DESIGN STANDARDS FOR URBAN LOCAL | STREET |
| SYSTEM (GS-8) | |
| GEOMETRIC DESIGN STANDARDS FOR SERVICE ROAD | S (GS-9)A-13 |
| GEOMETRIC DESIGN STANDARDS FOR INTERCHANGE | |
| RM) | |
| , | |
| SECTION A-2-CLEAR ZONE GUIDELINES | |
| CLEAR ZONE COST-EFFECTIVENESS ANALYSIS | A-17 |
| SHOWING CLEAR ZONES ON TYPICAL SECTIONS | |
| DETERMINING CLEAR ZONE WIDTH | |
| HORIZONTAL CURVE ADJUSTMENTS | |
| NON-RECOVERABLE PARALLEL SLOPES | |
| | |
| SECTION A-3-TRAFFIC BARRIER INSTALLATION CRITERIA | |
| INTRODUCTION | A-25 |
| GUARDRAIL WARRANTS | |
| DETERMINING WARRANTS FOR ROADSIDE BARRIERS. | |
| BARRIER TYPE SELECTION | |
| GUARDRAIL INSTALLATION IN URBAN SETTINGS | |
| GUARDRAIL LOCATIONS ON FIELD INSPECTION PLANS | |
| DETERMINING LOCATION OF THE ENDS OF GUARDRAI | |