# INTRODUCTION

* 1. **Foreword**
  2. **Original and Successor Projects**
  3. **Data Reviewed**
  4. **Design Standards**
  5. **Characteristics of the Roadways and Surrounding Area**
  6. **Concept Development Scope Statement**
  7. **CD Public Involvement Action Plan**

# PURPOSE AND NEED

* 1. **Bridge Needs**
  2. **Scour Needs**
  3. **Maintenance Needs**
  4. **Roadway Needs**
  5. **Goals and Objectives**

# EXISTING INVENTORY AND CONDITION

* 1. **Existing Bridge Inventory and Condition**
  2. **Scour**
  3. **Maintenance Issues**
  4. **Existing Roadway Inventory and Condition**
  5. **Existing Utilities**
  6. **Summary of Existing Deficiencies**
  7. **List of Substandard Design Elements**
  8. **Management Systems Input**
  9. **As-Built Plans, Right of Way Maps and Jurisdiction Map**

# TRAFFIC AND CRASH SUMMARY

* 1. **Traffic Operations**
  2. **Traffic Data**
  3. **Traffic Volume Forecasts**
  4. **Crash Data Analysis and Crash Diagram**

# SOCIAL, ECONOMIC AND ENVIRONMENTAL SCREENING

* 1. **Community Outreach**
  2. **Noise and Air Quality**
  3. **Socioeconomics**
  4. **Cultural Resources**
  5. **Section 4(f) Properties**
  6. **Highlands/Pinelands**
  7. **Wetlands**
  8. **Reforestation**
  9. **Floodplain**
  10. **Sole Source Aquifer**
  11. **Threatened/Endangered Species**
  12. **Category 1 Waters**
  13. **Vernal Pools**
  14. **Stormwater**
  15. **Hazardous Waste**
  16. **Anticipated Environmental Permits or Approvals**
  17. **Environmental Summary with Probable NEPA Document required**

# EVALUATION OF CONCEPTUAL ALTERNATIVES

* 1. **Bridge Rehabilitation versus Bridge Replacement**
  2. **Temporary Bridge Location and Widening Constraints**
  3. **Conceptual Alternatives**
  4. **Traffic Analysis**
  5. **Hydrology & Hydraulics Analysis**
  6. **Right of Way Impacts and Review**
  7. **Utility Impacts**
  8. **ITS Facilities**
  9. **Complete Streets Policy**
  10. **Access Impacts and Review**
  11. **Constructability and Staging Plans and Detour Plan**
  12. **Controlling Substandard Design Elements and Reasonable Assurance**
  13. **Construction Cost Estimate**
  14. **Value Engineering Study and Report**
  15. **Life Cycle Cost Analysis**
  16. **Alternatives Matrix**
  17. **Risk Analysis Summary**
  18. **Discussions with Subject Matter Experts**
  19. **Preliminary Preferred Alternative (PPA)**
  20. **Preliminary Engineering Scope Statement**

# CONCEPT DEVELOPMENT RECOMMENDATION

* 1. **Federal Highway Administration (FHWA) Approval of Report**
  2. **Capital Program Screening Committee (CPSC) Recommendation**
  3. **Capital Program Committee (CPC) Approval**

## Appendices

## Problem Statement/Charter

## Bridge Re-evaluation Survey Report (latest cycle)

## Bridge Scour Evaluation Report (latest cycle)

## As-Built Plans, ROW Maps, and Jurisdiction Map

## Tax Maps

## Crash Data

## Traffic Counts

## Aerial Plan and Photographs

## Straight Line Diagrams

## Traffic Volumes (VPH) Graph

## Collision Diagrams

## Environmental Screening and Constraint Map

## Conceptual Alignments, Right of Way Impacts, Environmental Constraints, Bridge Staging, Profile and Local Detour

## Public Communications

## Design Communications Report (DCR)

## Resolutions of Support

## NJDOT Communications

## Cost Estimates

## Alternatives Matrix

## Risk Register

## Quantitative Risk Analysis Report

## Utility Risk Assessment Plan

## Complete Streets Checklist

## Life Cycle Cost Analyses

## Systems Engineering Review Form

## Preliminary Engineering Public Involvement Action Plan

## Preliminary Engineering Scope Statement