

AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN

AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN A COMPREHENSIVE GUIDE THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AASHTO PROVIDES COMPREHENSIVE GUIDELINES FOR THE LOAD AND RESISTANCE FACTOR DESIGN LRFD METHOD IN SEISMIC BRIDGE DESIGN THIS GUIDE OFFERS A DETAILED WALKTHROUGH OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SPECIFICALLY FOCUSING ON SEISMIC CONSIDERATIONS UNDERSTANDING THESE SPECIFICATIONS IS CRUCIAL FOR ENGINEERS ENSURING THE SAFETY AND RESILIENCE OF BRIDGES IN SEISMICALLY ACTIVE REGIONS I UNDERSTANDING AASHTO LRFD SEISMIC DESIGN PHILOSOPHY AASHTO LRFD ADOPTS A PERFORMANCEBASED APPROACH AIMING TO ACHIEVE ACCEPTABLE LEVELS OF SAFETY AND SERVICEABILITY UNDER VARIOUS LOAD CONDITIONS INCLUDING SEISMIC EVENTS THE DESIGN PROCESS INVOLVES CONSIDERING MULTIPLE LIMIT STATES INCLUDING COLLAPSE PREVENTION ENSURING THE BRIDGE REMAINS STABLE AND PREVENTS CATASTROPHIC FAILURE EVEN DURING A MAXIMUM CONSIDERED EARTHQUAKE MCE IMMEDIATE OCCUPANCY THE BRIDGE REMAINS FUNCTIONAL IMMEDIATELY AFTER THE MCE ALLOWING FOR EMERGENCY RESPONSE AND ACCESS LIFE SAFETY PROTECTING OCCUPANTS DURING A DESIGN EARTHQUAKE DE ENSURING NO LIFE THREATENING DAMAGE OCCURS SERVICEABILITY MAINTAINING THE BRIDGES FUNCTIONALITY AFTER LESS SEVERE SEISMIC EVENTS II KEY AASHTO LRFD PROVISIONS FOR SEISMIC DESIGN AASHTO LRFDs SEISMIC DESIGN PROVISIONS ARE COMPLEX ENCOMPASSING NUMEROUS FACTORS SEISMIC HAZARD ANALYSIS DETERMINING THE GROUND MOTION PARAMETERS PEAK GROUND ACCELERATION SPECTRAL ACCELERATIONS BASED ON LOCATION AND GEOLOGICAL CONDITIONS THIS OFTEN INVOLVES USING HAZARD MAPS AND PROBABILISTIC SEISMIC HAZARD ANALYSIS PSHA SITE CLASSIFICATION CATEGORIZING THE SOIL CONDITIONS AT THE BRIDGE SITE BASED ON SHEAR WAVE VELOCITY INFLUENCING THE GROUND MOTION AMPLIFICATION A STIFFER SITE WILL GENERALLY EXPERIENCE LESS AMPLIFICATION 2 STRUCTURAL SYSTEM SELECTION CHOOSING AN APPROPRIATE BRIDGE STRUCTURAL SYSTEM BASED ON SEISMIC PERFORMANCE OBJECTIVES EXAMPLES INCLUDE MOMENTRESISTING FRAMES BRACED FRAMES AND BASE ISOLATION SYSTEMS CAPACITY DESIGN DESIGNING COMPONENTS TO ENSURE DUCTILE BEHAVIOR DURING SEISMIC EVENTS CONCENTRATING DAMAGE IN PREDETERMINED REPLACEABLE SECTIONS DUCTILITY AND ENERGY DISSIPATION DESIGNING FOR APPROPRIATE DUCTILITY RATIOS TO ABSORB SEISMIC ENERGY PREVENTING BRITTLE FAILURE THIS OFTEN INVOLVES DETAILING REQUIREMENTS FOR REINFORCEMENT SUCH AS TRANSVERSE REINFORCEMENT IN COLUMNS DETAILING REQUIREMENTS SPECIFIC REQUIREMENTS FOR REINFORCEMENT DETAILING CONNECTION DESIGN AND OTHER ASPECTS CRITICAL TO ACHIEVING THE DESIRED DUCTILITY AND PREVENTING PREMATURE FAILURE

EXAMPLES INCLUDE LAP SPLICE REQUIREMENTS AND ANCHORAGE DETAILS

III STEP-BY-STEP SEISMIC DESIGN PROCEDURE

- 1 SITE INVESTIGATION AND SEISMIC HAZARD ASSESSMENT** CONDUCT THOROUGH GEOTECHNICAL INVESTIGATIONS TO DETERMINE SOIL PROPERTIES AND PERFORM A SEISMIC HAZARD ANALYSIS USING AASHTO GUIDELINES. THIS WILL PROVIDE THE GROUND MOTION PARAMETERS FOR DESIGN.
- 2 STRUCTURAL SYSTEM SELECTION AND PRELIMINARY DESIGN** SELECT AN APPROPRIATE STRUCTURAL SYSTEM BASED ON SITE CONDITIONS, SEISMIC HAZARD, AND PROJECT REQUIREMENTS. PERFORM PRELIMINARY STRUCTURAL ANALYSIS AND DESIGN USING APPROPRIATE SOFTWARE.
- 3 CAPACITY DESIGN** DETERMINE THE STRENGTH AND DUCTILITY CAPACITY OF CRITICAL STRUCTURAL ELEMENTS. DESIGN ELEMENTS TO ACHIEVE THE REQUIRED CAPACITY AND DUCTILITY, FOCUSING ON POTENTIAL WEAK LINKS. FOR EXAMPLE, CAREFULLY DETAILING COLUMNS TO ENSURE THEY YIELD BEFORE OTHER ELEMENTS.
- 4 NONLINEAR STATIC PUSHOVER ANALYSIS (NSPA)** PERFORM A NONLINEAR STATIC ANALYSIS TO EVALUATE THE STRUCTURAL RESPONSE UNDER INCREASING LATERAL LOADS. THIS HELPS VERIFY THAT THE CAPACITY AND DUCTILITY DEMANDS ARE MET.
- 5 NONLINEAR DYNAMIC ANALYSIS (NDA)** FOR COMPLEX STRUCTURES, NDA MAY BE REQUIRED TO ASSESS THE RESPONSE TO ACTUAL SEISMIC GROUND MOTIONS. THIS IS MORE COMPUTATIONALLY INTENSIVE BUT PROVIDES A MORE ACCURATE ASSESSMENT OF STRUCTURAL BEHAVIOR.
- 6 DETAILING AND VERIFICATION** ENSURE DETAILED DESIGN ADHERES TO AASHTO LRFDs DETAILING REQUIREMENTS FOR REINFORCEMENT CONNECTIONS AND OTHER CRITICAL ASPECTS. VERIFY THE DESIGN USING APPROPRIATE ANALYSIS AND CHECK FOR COMPLIANCE WITH ALL LIMIT STATES.

IV BEST PRACTICES AND COMMON PITFALLS

- 3 COLLABORATION** CLOSE COLLABORATION BETWEEN GEOTECHNICAL ENGINEERS, STRUCTURAL ENGINEERS, AND SEISMIC SPECIALISTS IS VITAL FOR SUCCESSFUL SEISMIC DESIGN.
- REALISTIC MODELING** ACCURATELY MODEL THE STRUCTURAL SYSTEM AND SOIL-STRUCTURE INTERACTION IN THE ANALYSIS.
- COMPREHENSIVE ANALYSIS** EMPLOY BOTH LINEAR AND NONLINEAR ANALYSIS TECHNIQUES, SUPPLEMENTING NSPA WITH NDA WHERE NECESSARY.
- ADEQUATE DETAILING** PAY METICULOUS ATTENTION TO DETAILING REQUIREMENTS AS THESE ARE CRUCIAL FOR ACHIEVING DESIRED DUCTILITY.
- AVOID BRITTLE FAILURE** ENSURE THAT ALL CRITICAL ELEMENTS ARE DESIGNED FOR DUCTILE BEHAVIOR AND CAN ABSORB ENERGY WITHOUT BRITTLE FAILURE.
- COMMON PITFALLS**
 - IGNORING SITE EFFECTS: FAILING TO ACCOUNT FOR SOIL AMPLIFICATION AND OTHER SITE EFFECTS IN THE SEISMIC HAZARD ANALYSIS.
 - INSUFFICIENT DUCTILITY: INADEQUATE DETAILING LEADING TO INSUFFICIENT DUCTILITY AND PREMATURE FAILURE.
 - OVERSIMPLIFICATION OF MODELING: OVERSIMPLIFYING THE STRUCTURAL MODEL LEADING TO INACCURATE ASSESSMENT OF STRUCTURAL RESPONSE.
 - NEGLECTING NONLINEARITY: IGNORING THE NONLINEAR BEHAVIOR OF STRUCTURAL ELEMENTS DURING SEISMIC EVENTS.

V EXAMPLE SEISMIC DESIGN OF A BRIDGE PIER

CONSIDER A BRIDGE PIER DESIGNED USING AASHTO LRFD. THE DESIGN PROCESS WOULD INVOLVE:

- 1 DETERMINING THE SEISMIC HAZARD AT THE SITE**
- 2 SELECTING AN APPROPRIATE PIER DESIGN** (EG A REINFORCED CONCRETE COLUMN)
- 3 DESIGNING THE COLUMNS CROSSSECTION TO RESIST SEISMIC SHEAR AND MOMENT**
- 4 DETAILING THE COLUMN REINFORCEMENT TO ENSURE DUCTILITY AND PREVENT BRITTLE SHEAR FAILURE** (EG USING SUFFICIENT TRANSVERSE REINFORCEMENT)
- 5 PERFORMING NSPA AND POSSIBLY NDA TO VERIFY THE DESIGN**

VI

SUMMARY AASHTO LRFD PROVIDES A ROBUST FRAMEWORK FOR SEISMIC BRIDGE DESIGN ADHERING TO ITS SPECIFICATIONS EMPLOYING BEST PRACTICES AND AVOIDING COMMON PITFALLS ARE ESSENTIAL FOR ENSURING THE SAFETY AND LONGEVITY OF BRIDGES IN SEISMICALLY ACTIVE REGIONS THE DESIGN PROCESS NECESSITATES A DETAILED UNDERSTANDING OF SEISMIC HAZARD STRUCTURAL DYNAMICS AND NONLINEAR ANALYSIS TECHNIQUES 4 VII FAQs 1 WHAT IS THE DIFFERENCE BETWEEN MCE AND DE IN AASHTO LRFD THE MAXIMUM CONSIDERED EARTHQUAKE MCE REPRESENTS THE LARGEST EARTHQUAKE ANTICIPATED AT A SITE DURING THE BRIDGES LIFESPAN THE DESIGN EARTHQUAKE DE REPRESENTS A LESS SEVERE EVENT FOR WHICH THE BRIDGE MUST REMAIN FUNCTIONAL AND PREVENT LIFETHREATENING DAMAGE 2 WHAT IS CAPACITY DESIGN IN SEISMIC BRIDGE DESIGN CAPACITY DESIGN ENSURES THAT THE STRUCTURAL ELEMENTS ARE DESIGNED TO YIELD IN A PREDICTABLE AND CONTROLLED MANNER PREVENTING BRITTLE FAILURE IT DICTATES THE STRENGTH OF SPECIFIC ELEMENTS TO CONTROL WHERE YIELDING OCCURS TYPICALLY IN THE DUCTILE ELEMENTS 3 HOW IS SOILSTRUCTURE INTERACTION CONSIDERED IN AASHTO LRFD SEISMIC DESIGN SOILSTRUCTURE INTERACTION IS ACCOUNTED FOR BY CONSIDERING THE EFFECTS OF SOIL PROPERTIES EG SHEAR WAVE VELOCITY ON GROUND MOTION AMPLIFICATION AND THE INTERACTION BETWEEN THE BRIDGE FOUNDATION AND THE SURROUNDING SOIL THIS IS OFTEN INCORPORATED THROUGH SPECIALIZED ANALYSIS TECHNIQUES 4 WHAT ARE THE KEY DETAILING REQUIREMENTS FOR SEISMIC DESIGN IN AASHTO LRFD KEY DETAILING REQUIREMENTS INCLUDE SUFFICIENT TRANSVERSE REINFORCEMENT IN COLUMNS AND BEAMS ADEQUATE CONFINEMENT OF COMPRESSION MEMBERS PROPER ANCHORAGE OF REINFORCEMENT AND APPROPRIATE LAP SPLICE LENGTHS 5 WHAT SOFTWARE IS COMMONLY USED FOR AASHTO LRFD SEISMIC BRIDGE DESIGN VARIOUS SOFTWARE PACKAGES ARE COMMONLY USED FOR AASHTO LRFD SEISMIC BRIDGE DESIGN INCLUDING SAP2000 ETABS AND OPENSEES THESE SOFTWARE PROGRAMS ALLOW FOR BOTH LINEAR AND NONLINEAR STATIC AND DYNAMIC ANALYSIS

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