



120th Avenue Connection



Colorado Department of Transportation

Region 6

BOOK 3

APPLICABLE STANDARDS, DATA, AND REPORTS

120th Avenue Connection
Design-Build Project

Final

REQUEST FOR PROPOSAL

January 29, 2009

PROJECT NO. STA C800-001
16501 (CN)

APPLICABLE STANDARDS, DATA and REPORTS

Copies of reports supplied by CDOT may be obtained, at the Contractor's expense, at (firm, location, phone number here).

Availability Legend

IS = Industry standard, Not supplied by CDOT

S = Included in RFP, Supplied by CDOT (W = Web Access, E = CD, HC = Hard copy)

* = Document revised or added after issuance of Draft RFP.

Report #	Standard	Availability
N/A	CDOT Design Guide 2005 (Updated April 2006)	IS/W
N/A	CDOT Project Development Manual	IS/W
N/A	CDOT Revisions to Project Development Manual (September 2006)	IS/W
N/A	CDOT Standard Plans, M & S Standards	IS/W
N/A	CDOT Standard Specifications for Road and Bridge Construction	IS/W
N/A	CDOT Field Materials Manual	IS/W
N/A	CDOT Erosion Control & Stormwater Quality Guide	IS
N/A	CDOT Construction Manual (2002) Revised 2004	IS/W
N/A	CDOT Laboratory Manual of Test Procedures	IS/W
N/A	CDOT Right of Way Manual	IS/W
N/A	CDOT Safety manual	IS
N/A	CDOT Survey Manual	IS/W
N/A	CDOT Drainage Design Manual 2004	IS/W
N/A	CDOT Drafting Manual	IS
N/A	CDOT CADD Manual	IS/W
N/A	CDOT Bridge Rating Manual	IS/W
N/A	CDOT Bridge Design Manual	IS/W

Report #	Standard	Availability
N/A	CDOT Bridge Technical Memorandums	IS/W
N/A	CDOT Utility Manual	IS
N/A	CDOT Bridge Structural Worksheets (www.dot.state.co.us/Bridge/Worksheets/Worksheets.htm)	IS/W
N/A	State of Colorado, State Highway Access Code	IS
N/A	CDOT Supplement to Standard Highway Signs	IS
N/A	CDOT Work Zone Safety Booklet (2005)	IS
N/A	CDOT Retro Reflective Sheeting Materials Guide	IS
N/A	CDOT Guide Sign Policy Manual	IS
N/A	CDOT Field Studies Guidelines	IS
N/A	CDOT Traffic Chapter of the Design Guide	IS
N/A	CDOT Research Report 2003-6	IS
N/A	CDOT Pavement Design Manual (2009)	IS
N/A	MUTCD, Manual of Uniform Traffic Control Devices	IS
N/A	HDS No. 5, Hydraulic Design of Highway Culverts	IS
N/A	HEC-11, Use of Riprap for Bank Protection	IS
N/A	HEC-13, Hydraulic Design of Improved Inlets for Culverts	IS
N/A	HEC-14, Hydraulic Design of Energy Dissipaters for Culverts and Channels	IS
N/A	HEC-15, Design of Stable Channels with Flexible Linings	IS
N/A	HEC-18, Scour at Bridges	IS
N/A	HEC-20, Stream Stability at Highways	IS
N/A	HEC-21, Bridge Deck Drainage Studies	IS
N/A	HEC-22, Urban Drainage Design Manual	IS
N/A	HEC-23, Design of Countermeasures	IS
*N/A	FHWA Standard Sign 2002	IS
N/A	FHWA, RD-75-114 Safety and Location of Bicycle Facilities	IS

Report #	Standard	Availability
N/A	Federal Register, Proposed Rules, December 21, 1992	IS
N/A	FHWA Manual for Highway Storm Water Pumping Stations, Volumes 1 and 2	IS
N/A	FHWA RD-73-93, Analysis and Design Problems in Modeling Slurry Wall Construction	IS
N/A	FHWA RD-80-047, Slurry Walls as an Integral Part of Underground Transportation Structures, 1981	IS
N/A	FHWA RD-89-93, Soil Nailing for Stabilization of Highway Slopes and Excavations, 1991	IS
N/A	FHWA RD-92-004, Drilled Shafts for Bridge Foundations, August 1993	IS
N/A	FHWA SA-93-086, Soil Nail Field Inspectors Manual, 1994	IS
N/A	FHWA HI-95-038 "Geosynthetic Design and Construction Guidelines"	IS
N/A	FHWA IF-99-015 "Geotechnical Engineering Circular No. 4 – Ground Anchors and Anchored Systems"	IS
N/A	FHWA IF-03-017 "Geotechnical Engineering Circular No. 7 – "Soil Nail Walls"	IS
N/A	FHWA NHI 00-043 "Mechanically Stabilized Earth Walls and Reinforced Soil Slopes"	IS
N/A	FHWA NHI 00-044 "Corrosion/Degradation of Soil Reinforcements for Mechanically Stabilized Earth Walls and Reinforced Soil Slopes"	IS
N/A	FHWA RD-97-130 "Design Manual for Permanent Ground Anchor Walls"	IS
N/A	FHWA SA-93-068 "Soil Nailing Field Inspectors Manual"	IS
N/A	FHWA SA-96-069R "Manual for the Design & Construction Monitoring of Soil Nail Walls"	IS
N/A	FHWA DP-90-068 , Permanent Ground Anchors, Volume 1, Final Report	IS
N/A	FHWA RD-82-046, Tiebacks, Executive Summary	IS
N/A	FHWA RD-82-047, Tiebacks	IS
N/A	FHWA-SA-96-071, Mechanically Stabilized Earth Walls and	IS

Report #	Standard	Availability
	Reinforced Soil Slopes Design and Construction Guidelines	
N/A	FHWA-SA-96-072, Corrosion/Degradation of Soil Reinforcement for Mechanically Stabilized Earth Walls and Reinforced Soil Slopes	IS
N/A	ASTM Standard Specification Manual	IS
N/A	ASTM D-1143	IS
N/A	ASTM D-3996	IS
N/A	AASHTO LRFD Bridge Design Specifications, Fourth Edition, 2007 with 2008 Interim	IS
N/A	AASHTO Roadside Design Guide	IS
N/A	AASHTO Standard Specifications	IS
N/A	AASHTO Standard Specifications for highway Bridges, 17 th Edition, 2002 with 2001, 2002 and 2003 interims	IS
N/A	AASHTO Standard Specifications for Highway Bridges, 17 th Edition without interims.	IS
N/A	AASHTO Guide Specifications for Horizontally Curved Steel Highway Bridges 2003	IS
N/A	AASHTO Manual for Condition Evaluation of Bridges, 2 nd Edition, 2000 with 2000, 2001, 2002 and 2003 Interims	IS
N/A	AASHTO Guide Specifications for Design and Construction of Segmental Concrete Bridges, 2 nd Edition 1999 with 2000, 2001, 2002 and 2003 Interims	IS
N/A	AASHTO Guide Specifications for Structural Design of Sound Barriers 1989, with all Interims through 2002	IS
N/A	AASHTO Moveable Highway Bridge Design Specifications, 1 st Edition 2001 with 2002 Interims	IS
N/A	AASHTO Guide Specifications for Fracture Critical Non-Redundant Steel Bridge Members	IS
N/A	AASHTO Policy on Geometric Design of Highways and Streets, 4 th Edition 2001, Second Printing	IS
N/A	AASHTO Guide for Development of New Bicycle Facilities	IS
N/A	AASHTO AWS D1.5 M- D 1.5, Bridge Welding Code 2002, An American National Standard	IS

Report #	Standard	Availability
N/A	AASHTO Standard specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals, 4 th Edition 2001 and 2002 Interim	IS
N/A	City and County of Broomfield, Broomfield Standards and Specifications 2007 Edition	IS
N/A	CFR sec. 650.101 through 650.209, Code of Federal Regulations	IS
N/A	23 CFR 710.313	IS
N/A	29 CFR 1910, Federal Occupational safety and Health Standards (General Industry)	IS
N/A	29 CFR 1910, Federal Occupational safety and Health Standards (Construction Industry)	IS
N/A	ANSI RP-8-00 Illumination Engineering Society of North America	IS
N/A	ANSI / EIA / TA 568 A	IS
N/A	ANSI Z60.1, American Standards for Nursery Stock	IS
N/A	OSHA Standard Specifications	IS
N/A	FPA 101, Line Safety Code	IS
N/A	Uniform Fire Code	IS
N/A	Highway Traffic Noise Analysis and Abatement Policy and Guidance, June 1995	IS
N/A	National Arbor Association Ref. 1. Pruning Standards for Shade Trees	IS
N/A	Precipitation Frequency Atlas of the Western United States, Volume III –Colorado, 1973	IS
N/A	National electric Safety Code, NFPA 70	IS
N/A	National Electrical Manufacturing Association Standards and Specifications	IS
N/A	Transportation Research Board Highway Capacity Manual	IS
N/A	National Institute of Standards and Specifications	IS
N/A	International Building Code, Edition 2003	IS

Report #	Standard	Availability
N/A	Bridge LLC or the National Cooperative Highway Research Project, 12-43 Life Cost Analysis for Bridges	IS
N/A	National Cooperative Highway Research Program Report 402, Fatigue Design of Modular Bridge Expansion Joints (1997) Appendix A & Appendix B	IS
N/A	The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended	IS
N/A	American Disabilities Act Accessibility Guidelines	IS
N/A	ADA Accessibility Guidelines, Architectural and Transportation Barriers Board, August 1991	IS
N/A	ACE Wetland Delineation Manual, 1987	IS
N/A	CDOT Municipal Separate Storm Sewer (MS4) NPDES Permit www.dot.state.co.us/environmental/envWaterQual/wqms4.asp	S/W
N/A	Colorado Air Quality Control Commission Regulation No. 1 www.cdphe.state.co.us/op/regs/airregs/100103aqccpartmattersmokecarbonmonoxide.pdf	W
N/A	CRS 24-56-101, The Colorado Relocation Assistance and Land Acquisition Policy, et seq. as supplemented	IS
N/A	Urban Storm Drainage Criteria Manual (Volumes 1 and 2 2001 Edition with later revisions and Volume 3 1999 Edition with later revisions), Urban Drainage and Flood Control District	IS
N/A	Colorado Department of Transportation Region 6 Lane Closure Strategy (2005)	W
N/A	CDOT Guidelines for Developing Traffic Incident Management	W
N.A.	Memorandum of Agreement with Colorado Department of Natural Resources and CDOT regarding Senate Bill 40 Certification	W
N.A.	CDOT New Media Relation Guidelines	W
3.1	BNSF Standards Concerning Design & Construction of New or Modified Existing Grade Separation Overhead Structures	S/W

Report #	Standard	Availability
3.2	Preliminary Geotechnical Investigation Report - 120th Avenue Connection Over US-36, December, 2008	S/E
3.3	120 th Avenue Connection Environmental Assessment (March 2005)	S/W/E
3.4	120 th Avenue Connection Finding of No Significant Impact (FONSI) (January 2006)	S/W/E
3.5	120 th Avenue Connection Environmental Assessment Reevaluation (March 2008)	S/W/E
3.6	120th Avenue Connection Master Plan Drainage Report (July 2008) (moved to Reference Documents)	S/W/E
3.7	Local Agency Agreement, CDOT/City and County of Broomfield	S/E