

**Strategic Plan for the AASHTO Subcommittee on Design
With Compiled Technical Committee Input**

July 8, 2009

Key to Questions for SCOD and TCs:

Need additional clarification or specificity
Does activity apply to objective?
Please review new or modified write-up for accuracy

Input received from: Cost Estimating, Environmental Design, Geometric Design, Hydraulics/Hydrology, Nonmotorized, Pavements, Value Engineering

Need Input from: Preconstruction Engineering Mgmt, Roadside Safety, Electronic Engineering Data

Inactive Committees: Highway Lighting, Public Transportation Facilities

SCOD Vision:

The AASHTO Subcommittee on Design will be the national voice and leading source of innovation and technical guidance for transportation design projects and programs.

SCOD Mission:

The AASHTO Subcommittee on Design leads transportation project development and delivery through the creation and promotion of practices to achieve safe, efficient, and effective solutions to meet transportation needs.

SCOD Goals and Strategies:

The Subcommittee on Design will accomplish its mission by focusing on the following goals:

1. Improve the timely delivery of projects

a. Identify and share best practices for project delivery methodologies from across the country and around the world.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Hydraulics/ Hydrology	Overhaul and reformat AASHTO Drainage Manual into two volumes: policy and recommendations	Review each chapter, separating policies from criteria. Review for consistency, engineering content, language. Collect funding from pool fund participating states. Hire a consultant to complete the final review and publication of the manual.	Revamped AASHTO Drainage Manual	June 2011
Hydraulics/ Hydrology	Communicate with other technical committees	Schedule periodic joint meetings with the Technical Committee on Environmental Design and the TRB AFB60 Committee.	Interactive and ongoing dialog	Semi-annually
Pavements	Develop a report on pavement type selection	Work on this project is ongoing	Report on methods and best practices for pavement type selection [What type of report? AASHTO guidance document?]	2010
Value Engineering	Identify essential Value Engineering Study components and share best practices	Committee will update and enhance AASHTO 2001 Value Engineering Guidelines	Updated AASHTO Guidelines for Value Engineering	March 2009
Preconstr Egrg Mgmt	Produce information on the use of performance measures in State DOTs for preconstruction work	Survey states and/or develop an NCHRP research proposal to conduct survey and report findings	Committee report	2012
Preconstr Egrg Mgmt	Compile best practices in the area of receiving and accepting bid proposals	Survey states and/or develop an NCHRP research proposal to conduct survey and report findings	Committee report	2013

b. Develop policy statements and proposals for streamlining project delivery processes and procedures.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
[Please provide more specific activities here, as opposed to generic statements about proposing research]				
All TCs	Prepare research proposals for NCHRP	Each technical committee prepares and submits research problem statements for submittal to SCOD and eventually to NCHRP	NCHRP research proposals	Annually

c. Identify and share best practices related to project management.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Hydraulics/ Hydrology	Publish a semiannual technical Committee on hydrology and hydraulics newsletter	A newsletter committee composed of members of TCHH collects and writes articles for the newsletter. Each letter includes a message from the chair, research updates, technology corner, concerns of the state and other articles of interest to the H&H community.	The newsletter includes information, articles and updates on H & H national issues and other current issues of interest.	Ongoing - Newsletter published semiannually, sent to state hydraulics engineers by email. Third newsletter will be published summer 2009.
Cost Estimating	Develop guidance on cost estimating throughout the project delivery process	Several chapters complete. Finalize risk-based and parametric chapters. Continue work on inflation chapter as well as additional chapters not yet started	AASHTO Practical Guide to Estimating	2011; individual chapters posted on web site as completed
Cost Estimating	Post links on AASHTO web site to DOTs' cost estimating web resources	Revamp TCCE webpage to include links to State and Provincial DOTs' web-based cost estimating resources	Web-based resource links on AASHTO web site	Mid-2009
Preconstr Egrg Mgmt	Develop a report on best management practices in project management	Survey states to determine current practices, propose research to cull best of what's available	Committee report	2011

d. Provide technical input and guidance during the development of federal rules and regulations.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Subcommittee on Design	Review comments developed by technical committees and/or ad-hoc task forces and submit to SCOH or to appropriate federal agencies	Designate ad-hoc task force to develop and/or review comments from technical committees	Draft comments on proposed federal rules and regulations	As needed
[All TCs: Please provide more specificity about anticipated federal rules, such as the stormwater draft rule from EPA, sustainability, climate change, etc.]				
Nonmotorized, Geometric Design	Review and comment on draft requirements related to the Americans with Disabilities Act (ADA)	Review draft rule on accommodating disabled people in public rights-of-way and provide input to SCOD for review and approval	Draft comments on proposed ADA guidance	2010
Nonmotorized, Geometric Design	Review and comment on draft requirements/regulations related to Complete Streets			
Hydraulics/ Hydrology, Enviro Design	Review and comment on draft requirements/regulations related to Stormwater Management	Request input from TCHH members. Provide input to AASHTO by teleconference and reports	Official statement from AASHTO to EPA on draft legislature on effluent limitations and turbidity regulations.	April 2009
Value Engineering	Review and comment on all VE related issues	Ad-hoc task force includes FHWA member who is the FHWA Value Engineering Coordinator	Committee develops comments and recommendations	As needed

2. Develop design solutions that meet the purpose and need of a project, address its context, and protect the natural and human environment

a. Promote flexibility in design practices.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Hydraulics/ Hydrology	Modify the AASHTO Drainage Manual to support flexibility in design - Complete revisions by each chapter chair. Hire a consultant to review the manual for duplication, consistency and accuracy.	The AASHTO Technical Committee on Hydrology (TCHH) and Hydraulics has been revising the Model Drainage Manual to update its contents and to make it more user-friendly, and accessible. TCHH will publish two manuals: one on policies and guidance and the other on design procedure. The reasons for splitting the manual are: 1. bulk reduction, 2. organization, 3. customer needs and preferences, 4. simplicity.	Revised AASHTO <i>Drainage Manual</i> - TCHH will publish two manuals: one on policies and guidance and the other on design procedure	2011
Pavements	Provide level playing field between pavement materials in design	Reinforce this key component of the newly adopted MEPDG during the states' implementation	Workshops (stand-alone and TRB) in 2010	2010 and beyond

Pavements	Provide method of considering subgrade stabilization in design of pavements	Participate in NCHRP project [Which one?]	Report with information for states on methods of including in MEPDG [What kind of report? An official AASHTO publication?]	2011
Enviro Design	Update and expand AASHTO's landscape architecture guidance	Participate in NCHRP Project 15-33 in development of updated Landscape Design guide, "Creating Complete Corridors." Ballot through committees and resolve comments.	Updated and Expanded AASHTO <i>Guide for Transportation Landscape and Environmental Design</i>	2010
Geometric Design	Incorporate flexibility into the AASHTO Green Book	Include comments on using flexibility in design and considering the context of a project at the design stage	Updated AASHTO <i>Policy on Geometric Design of Highways and Streets</i>	Mid-2010
Enviro Design, Geometric Design	Review and update the "Guide for Achieving Flexibility in Highway Design"	Survey states to determine if there is a need for updating the existing guide with best practices for defining context and applying design values..	Updated Guide for Achieving Flexibility in Highway Design	TBD
Enviro Design	Share CSS successes and problems with AASHTO/FHWA as TCED members' DOTs implement and maintain CSS/CSD	Participate in the FHWA CSS National Dialog by promoting the Call for Best Practices in CSS" and regional workshops.	Guidance, Best Practices	TBD

b. Research and share techniques and processes for involving communities and other stakeholders in the development of transportation facilities.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Enviro Design	Include guidance on community involvement in the updated AASHTO Landscape Guide	Participate in NCHRP Project 15-33 in development of updated Landscape Design guide, "Creating Complete Corridors." Ballot through committees and resolve comments.	Updated and Expanded AASHTO Guide for Transportation Landscape and Environmental Design	2010
Enviro Design	Develop a comprehensive literature review of best practices for aquatic organism/fish passage	Compile and publish, with funding help from AASHTO, a literature review. There is a considerable amount of literature produced on the subject. A consultant would need to be hired through AASHTO and a scope of work developed.	Printed report of literature review and where documents can be found	Spring 2010
Enviro Design	Develop best practices for public involvement	Compile, publish, and maintain a set of proven "Best" practices in conducting Public Involvement	Printed report, database, or clearinghouse	TBD

c. Promote better integration of project delivery efforts from planning and environment, through design, to construction, maintenance, and operations.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Subcommittee on Design	Explore better coordination related to right-of-way acquisition and utility relocation	Meet jointly with the Subcommittee on Right of Way and Utilities in 2011	Joint meeting SCOD/ROWU	2011
Cost Estimating	Develop guidance on cost estimating throughout the project delivery process	Provide guidance to improve estimating from project inception through construction to include the identification of all/realistic costs. Develop chapter on tracking and measuring performance of cost estimates throughout the life of a project	AASHTO <i>Practical Guide to Estimating</i>	2011; individual chapters posted on web site as completed
Enviro Design	proposed work on commitment tracking	Survey states for current methods of tracking project commitments from planning through construction.	Printed report, database, or clearinghouse	2011
Preconstr Egrg Mgmt	Develop a report on best management practices in project management	Survey states to determine current practices, propose research to cull best of what's available	Committee report	2011

d. Participate in the development of guidance for communicating environmental commitments through design to construction.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date

Hydraulics/ Hydrology	Prepare environmental hydrology and hydraulics related problem statements for NCHRP	Meet with TCED to discuss, evaluate common topics. Draft common goals to improve communication among the two technical committees, in preparing standards, manuals and research problem statements.	Coordinated efforts in preparing standards and manuals on common topics such as wetlands hydrology and hydraulics and BMPs. Commonly drafted and supported problem statements.	Annually
Pavements	Inclusion of recycled materials in pavement structures	Two research needs statements have been submitted. Additional topics in this area will be included in our research needs submissions.	Possible NCHRP projects or Synthesis reports	Ongoing
Enviro Design	Share best practices on following through with environmental commitments.	Solicit and compile best practices from the states	Printed report, database, or clearinghouse	TBD
Preconstr Egrg Mgmt	Develop a report on best management practices in project management	Survey states to determine current practices, propose research to cull best of what's available	Committee report	2011

e. Play an active role in the development of guidance on climate change and energy efficiency efforts in the design of projects.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Hydraulics/ Hydrology	Guidance on climate change	Participate in meetings and discuss the results of states' efforts during committee meetings. Place emphasis in TCHH meeting on climate change subjects. Invite experts to inform TCHH and state HE at large on the potential effects of climate changes.	Official statements on Climate Change effects on hydrology and hydraulics	On-going
Pavements	Support the advancement of warm-mix asphalt technology	Support research and implementation on the warm-mix asphalt process, which reduces emissions and temperatures during paving with asphalt pavements	Research proposals and support for demonstration projects	Ongoing.
Enviro Design, [SCOE], Hydrology/ Hydraulics, Pavements, others	Develop guidelines for developing a sustainable or "green" highway	Develop NCHRP problem statement or secure other funding source to develop guidance for sustainable highways, including hydrology, soils, vegetation, materials, and human well being, using a point based system similar to Leadership in Energy and Environmental Design (LEED).	Develop guidelines for constructing sustainable highways	TBD

f. Promote participation in land use planning for transportation.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Geometric Design	Explore update of TRB Access Management Guide	Coordinate with Standing Committee on Planning, Subcommittee on Systems Operation and Management, Subcommittee on Traffic Engineering, ITE, and others to develop guidance	AASHTO Access Management Guide	2012

g. Provide guidance for mobility and accessibility of non-motorized users.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Nonmotorized, Geometric Design, [Traffic Engineering]	Update and expand the AASHTO Bike Guide to include new information	Participate in NCHRP Project 15-37. Review and ballot completed research project through AASHTO committees	Update and Expansion of AASHTO <i>Guide for Bicycle Facilities</i>	2011
Nonmotorized, Geometric Design, [Traffic Engineering]	Update and expand the AASHTO Pedestrian Guide to include new information	Participate in NCHRP Project 20-7/263 to develop scope of new guide. Develop and submit research proposal for follow-on research project. Include guidance on ADA issues.	Update and Expansion of AASHTO <i>Guide for the Planning, Design, and Operation of Pedestrian Facilities</i>	2013
Nonmotorized, Geometric Design, [Traffic Engineering]	Develop design criteria for bicycle lanes	Participate in NCHRP Project 15-42 to develop new design criteria.	Design criteria for the Use of Bicycle Lanes for Various Roadway Characteristics	2011

3. Improve the quality and cost effectiveness of projects

a. Support performance management objectives within the design phase of project delivery, including the identification and recommendation of appropriate performance measures for design activities.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Cost Estimating	Develop guidance on tracking and measuring performance of cost estimates	Include chapter in forthcoming cost estimating guide on tracking and measuring performance of cost estimates throughout the life of a project	AASHTO <i>Practical Guide to Estimating</i>	2011; individual chapters will be posted on web site as completed
Preconstr Egrg Mgmt	Produce information on the use of performance measures in State DOTs for preconstruction work	Survey states and/or develop an NCHRP research proposal to conduct survey and report findings	Committee report	2012

b. Promote project management techniques to improve quality and cost effectiveness.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Pavements	Promote life-cycle cost analyses in the selection of pavement type	Life-cycle cost analyses are an aspect of the project on Pavement Type Selection. [How do you plan to promote this?]	[Product?]	[Completion?]
Pavements	Promote reliability in the design of pavements	Design reliability is one key feature of the newly accepted MEPDG. This feature is aimed at assuring that pavements perform for their intended design life. Appropriate training on design reliability will be an ongoing need.	Training on design reliability, perhaps through the National Highway Institute (NHI)	Initiating effort in 2009
Value Engineering	Share best practices in value engineering	Update AASHTO <i>Guidelines for Value Engineering</i>	AASHTO <i>Guidelines for Value Engineering</i>	March 2009
Value Engineering	Share best practices in value engineering	Hold biennial Value Engineering Conference	AASHTO Value Engineering Conference in San Diego, CA	September 2009
Cost Estimating	Develop guidance on cost estimating throughout the project delivery process	Finalize risk-based and parametric chapters and continue work on inflation chapter as well as additional chapters not yet started	AASHTO <i>Practical Guide to Estimating</i>	2011; individual chapters will be posted on web site as completed
Preconstr Egrg Mgmt, Cost Estimating	Develop a report on best practices in estimating preliminary engineering costs	Survey states to determine current practices, propose research to cull best of what's available	Committee report or AASHTO guide	2011

c. Provide guidance on constructability best practices for designers.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Enviro Design	Develop a comprehensive Literature Review of best practices for aquatic organism/fish passage	Compile and publish with funding help from AASHTO a literature review. There is a considerable amount of literature produced on the subject. A consultant would need to be hired through AASHTO and a scope of work developed.	Printed report of literature review and where documents can be found.	Spring 2010

d. Develop cost-effective solutions for delivering projects that minimize the operational and maintenance resources needed to sustain system effectiveness and functionality.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Cost Estimating	Develop guidance on cost estimating to include risk analysis and cost controls	Finalize risk-based and parametric chapters. Continue work on inflation chapter, as well as additional chapters. Include information on cost management and risk analysis, as well as strategies for cost controls.	AASHTO <i>Practical Guide to Estimating</i>	2011; individual chapters will be posted as completed
Value Engineering	Share best practices in value engineering	Hold Biennial VE Conference that includes appropriate topics and how VE helps accomplish these goals.	AASHTO Value Engineering Conference in San Diego, CA	September 2009

Roadside Safety	[Any work tasks in this area, perhaps related to cable barrier evaluation?]			

e. Identify the need for and deliver technical and policy publications and other timely information on design-related topics.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Hydraulics/ Hydrology	Develop policy and technical guidance on drainage design	Complete the revisions to the AASHTO Drainage Manual, including policies and technical information, through a pooled-fund project	Revamped AASHTO <i>Drainage Manual</i>	June 2011
Enviro Design	Develop guidance on landscape architecture design issues	Participate in NCHRP Project 15-33 in development of updated Landscape Design guide, "Creating Complete Corridors." Ballot through committees and resolve comments.	Updated and Expanded AASHTO <i>Guide for Transportation Landscape and Environmental Design</i>	2010
Cost Estimating	Identify and develop guidance for design-related cost estimating needs	Attend and interact at annual SCOD and Transportation Estimators Association (TEA) conferences; survey States' and Provinces' needs via FHWA and/or email	Documentation of needs and development of future guidance	Ongoing
Enviro Design & Hydraulics/ Hydrology	Explore opportunities for best practices in stormwater runoff	Meet with Hydraulics/ Hydrology in Indianapolis for the spring meeting in 2009. Need help from AASHTO for funding and consultant hiring.	Decision documented in the TCED meeting report and shared with SCOD	Spring 2009
Enviro Design	Develop a comprehensive Literature Review of best practices for aquatic organism/fish passage	Compile and publish, with funding help from AASHTO, a literature review. There is a considerable amount of literature produced on the subject. A consultant would need to be hired through AASHTO and a scope of work developed.	Printed report of literature review and where documents can be found.	Spring 2010
Cost Estimating	Ensure that the TCCE guide, <i>A Practical Guide to Estimating</i> , is relevant and up to date	Review the guide annually and update with information gathered from new research as appropriate. Interact with the Transportation Estimators Association and SCOD through participation in annual meetings and through surveys to determine the need for additional information to provide in the guidance.	Updated versions of, <i>A Practical Guide to Estimating</i>	Ongoing
[Note: All TC publications (i.e., products) should be located somewhere in this strategic plan document, unless you plan to discontinue them]				

4. Improve safety for the traveling public and the workforce

a. Develop and promote timely research into safer highway and transportation facility designs for all modes.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
[Note: All research projects should appear somewhere in this strategic plan]				
Hydraulics/ Hydrology	Propose and share research on drainage-related safety issues	Complete research on how to reduce crashes associated with drainage-related safety problems. Draft problem statements related to drainage road safety	Research problem statements on drainage safety	Ongoing
Pavements	Develop research proposals for assessing pavement safety risks	Research proposal submitted in 2008 to provide guidance for evaluating pavement safety risks, factors to consider in addition to surface friction	Possible NCHRP project	Submitted in 2008
Geometric Design	Develop research proposals for improving safety through geometric design considerations	Submit proposals related to the following topics: "Roadway Transitions for Rural to Urban Highway Sections," "Sag Curve Sight Distance Criteria," and "Superelevation for Horizontal Curves on Steep Grades"	Possible NCHRP project	Submitted in 2008
Nonmotorized	Research pedestrian interaction with motor vehicles as related to crashes	Participate in NCHRP Project 17-37 to develop a pedestrian predictive crash methodology for urban and suburban arterials.	Develop the methodology so it can be used as a guide	2009
Roadside Safety	[Include listing of research on safety issues, including what the committee plans to do with the research]			

b. Identify and share improvements made to enhance work zone safety.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Subcommittee on Design	Coordinate work zone safety information into appropriate design publications	Review current documents and coordinate with Standing Committee on Highway Traffic Safety on appropriate information to include	Assignments to technical committees	2010
Value Engineering	Encourage VE studies to include work zone safety considerations	Address the issues in AASHTO VE Guidelines and hold biennial VE Conference that includes appropriate topics and how VE helps accomplish those goals	AASHTO Guidelines for Value Engineering	September 2009
Nonmotorized	Develop research proposals for pedestrian accessibility through work zones	Develop a research proposal to provide guidance for pedestrian accessibility through work/traffic control zones.	Possible NCHRP project	TBD
Preconstr Egrg Mgmt	[Is there any work here related to the Transportation Mgmt Plan process that FHWA has instituted?]			

c. Support efforts to enhance the involvement of construction, maintenance, and operations personnel in the design phase of project delivery.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Hydraulics/ Hydrology	Development of guidance to increase the involvement of construction, maintenance, and operations in the design phase	Change the AASHTO Drainage manual to show the importance of involving construction, maintenance, and operation in the design phase	Revised construction and maintenance chapters of the AASHTO Drainage Manual	2011
Preconstr Egrg Mgmt or Roadside Safety	[Where does the Road Safety Audit process fall within your committee's responsibilities?]			
Geometric Design	[Any plan to put this idea into the Green Book?]			

d. Develop and implement guidance on safety issues.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Hydraulics/ Hydrology	Propose research on drainage-related safety issues for eventual inclusion in the AASHTO Drainage Manual	Develop proposals and participate in research on how to reduce crashes from drainage related safety problems	Research proposals on drainage safety	Ongoing
Pavements	Develop guidance on pavement friction	Most recent revision was balloted in 2008. Committee established to review on regular basis.	AASHTO <i>Guide for Pavement Friction</i>	2008 and ongoing
Geometric Design	Update geometric design guidance related to safety issues	Include the latest research on design elements that promote the safety and efficiency of vehicular movement. Coordinate language with the Technical Committee for Roadside Safety.	AASHTO <i>Policy on the Geometric Design of Highways and Streets</i>	Ballot in 2010.
Roadside Safety	Update the <i>Roadside Design Guide</i> to include latest safety research	Include the latest research on roadside design systems to promote the safety and efficiency of vehicular movement. Coordinate language with the Technical Committee on Geometric Design	Updated <i>Roadside Design Guide</i>	mid-2010
Roadside Safety	Update NCHRP Report 350 on crash testing roadside safety hardware	Participate in NCHRP project to update guidance, which will become an AASHTO publication	New AASHTO <i>Manual for Assessing Safety Hardware</i>	late-2009
Enviro Design, Geometric Design, [SCOHTS]	Study traffic calming effects of landscape and roadside elements	Develop NCHRP problem statement or other research proposal to establish the safety benefits and risks of median trees	Guidelines for design application	TBD
Preconstr Egrg Mgmt	[Any guidance planned related to feedback mechanisms for safety?]			

5. Advance the state of the practice

a. Develop, promote, and implement research on new technologies.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
[Note to all TCs: Please provide more specific descriptions of new or innovative issues you are working on]				
Subcommittee on Design	Review and prioritize research proposed by the technical committees	Review proposals twice yearly (for 20-7) and annually (for full NCHRP projects) and submit rankings to NCHRP	Ranking of research proposals	Annually
Hydraulics/ Hydrology	Preparation of problem statements for national research [Is this so general that every TC could be included here? I was thinking we wanted something more specific.... But maybe there's too much...]	TCHH reviews national research needs by discussing current trends, assessing states needs, preparing research problem statements, prioritize by vote the problem statements and needs. Members participate in research review panels. Provides that changes are made in the manual and other related publications according to findings.	Prioritized research problem statements are submitted to SCOD for ratification and submittal to SCOR.	Ongoing
Pavements	Work to implement the widespread use of the Mechanistic-Empirical Pavement Design Guide (MEPDG)	Because of the complexity of the newly accepted design guide, implementation will take many states 5 years or more. During this time, the JTCP will focus on assisting implementation in partnership with FHWA. A new focus area for post implementation will be maintenance of the states' implementation, i.e., uploading new data as it develops.	Ongoing effort, including new calibration guide, traffic data collection guide for MEPDG, using the pavement management system, etc.	Ongoing
Cost Estimating	Propose new research to explore appropriate uses of new technology related to estimating	Identify the need for new technologies related to cost estimating, submit research proposals, and participate in the research as new methods and techniques become known to committee members.	Research reports	As needed
Cost Estimating	Promote new cost estimating practices and tools	Identify new technologies through job related reading of journals and research reports, attendance at conferences, and interaction with consultants and contractors. Promote the tools, techniques, and innovative cost estimating methods to DOT estimators through the AASHTO website, presentations at the SCOD and TEA annual meetings, and through direct communications with identified state estimating contacts.	Web links to and communication of the availability of new cost estimating technologies	Ongoing
Value Engineering	Develop guidance on Value Engineering Change Proposals (VECP)	Offer guidance and support that allow contractors to utilize their expertise and latest techniques to reduce costs for both the contractor and agency.	AASHTO <i>Guidelines for Value Engineering</i>	March 2009
Geometric Design	Publish guidance on new geometric design features such as roundabouts, continuous flow intersections, and revised single point urban interchange design.	Include the latest research on new technologies in the next edition of the AASHTO Green Book	AASHTO <i>Policy on the Geometric Design of Highways and Streets</i>	Ballot in 2010

b. Engage other AASHTO committees in the development and use of new technologies and processes throughout project delivery.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
[Please provide specific coordination activities here, such as "Coordinate with the Construction to promote use of movable barrier in work zone projects"]				
Hydraulics/ Hydrology	Coordinate with FHWA Technical Resource Centers and other related TCs the need for research and development of technical courses, software and other needed technology for state hydraulics engineers	Schedule periodic joint meetings with the Technical Committee on Environmental Design and the TRB AFB60 Committee. Formation of a new joint task force on pipe standards. Co-sponsor and organize webinars, conferences and other technology transfer activities to inform designers and engineers of new technologies.	Interactive and ongoing dialog. Some products are: Co-sponsorship of problems statements, sharing and input on drainage related products standards, joint technical meeting, cooperation in providing information.	Semi-annually
Enviro Design	Develop one-stop clearinghouse of information on wildlife crossings	Create a mechanism to simplify the research process for designers related to wildlife crossing information. There is a great deal of information on the topic, but highway designers do not have the time to access all sites.	Create a web link to all wildlife crossing sites or publication of information gathered.	TBD

Cost Estimating	Develop and publicize one-stop clearinghouse of information for cost estimating	Simplify the research process for designers related to cost estimating techniques and tools by providing a webpage that serves as a one-stop clearinghouse for guidance, research reports, other states' practices, tools, and techniques. There is a great deal of information on the topic, but highway designers do not have the time to access all sites.	Create an easy to use web page with cost estimating resources and links to estimating websites	Late 2009; maintained regularly
Cost Estimating	Initiate communications with the Technical Committee on Preconstruction Engineering Management	Talk with the TCPEM chair about cost estimating needs; share information on technologies and processes that would assist them; promote the web-based clearinghouse on AASHTO TCCE website; and joint research needs.	Guidance and research that caters to all designers, including consultants	Late 2009 and ongoing
Cost Estimating	Initiate communications with the Subcommittee on Right of Way and Utilities Task Force on Research	Communicate with the chair of the Subcommittee on Right of Way and Utilities Task Force on Research to determine joint research needs; jointly develop research proposals related to cost estimating for right of way and utilities; participate on research panels.	Non-duplicative research that meets state DOTs needs for right of way and utility cost estimating	Late 2009 and ongoing
Cost Estimating	Develop communication with the Standing Committee on Planning regarding cost estimating	Work with the AASHTO liaison for SCOD to develop a communication relationship with SCOP that will allow TCCE to promote web based estimating resources and avoid duplication of research efforts.	Non-duplicative research proposals	2010 and ongoing

c. Coordinate and set priorities for the inclusion of new technologies and processes into design guidance.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Subcommittee on Design	Prioritize review and evaluation of new technologies by technical committees	Review presentations and other information at SCOD Annual Meeting, discuss at Regional breakout sessions, and make assignments to TCs	Prioritized list of assignments for Technical Committees	Annually
Hydraulics/ Hydrology	Work in conjunction with FHWA and TRB committees to regularly update the AASHTO Drainage Manual part 1 and part 2 after first publication. Include latest research findings in AASHTO Manuals and Hydraulics Guidelines	Plan to review and update manuals every five years. Cooperate with TRB and FHWA to improve and update current publications under TCHH oversight. Include updates and guidance on regularly published newsletter.	Manuals revision and publication. Regular updates on newsletters.	Ongoing
Pavements	Work toward inclusion of warm-mix asphalt technology in AASHTO pavement guidance	It is still unknown if additional design guidance will be required for warm mix asphalt. The JTCP will keep this "on the burner" to assure that guidance is provided if warranted.	Potential AASHTO guidance on warm-mix asphalt	2010

d. Increase coordination with and provide feedback mechanisms to/from academia, consultants, and contractors.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Subcommittee on Design	Provide opportunities at the SCOD annual meeting for input from academia, consultants, and contractors	Establish sessions or time slots for presentations from academia, consultants, and contractors	Increased sessions at annual SCOD meetings for academia, consultants, and contractors	Ongoing
Hydraulics/ Hydrology	Co-sponsor the National Hydraulic Engineering Conference	Contribute to organize and plan HH conferences that would be well attended by academia, consultants, and contractors.	National Hydraulic Engineering Conference	Biennial
Cost Estimating	Interact with academia, consultants, and contractors through the Transportation Estimators Association and others	Continue to coordinate annual TCCE meeting with TEA/TUG conference; participate in cost estimating research; attend other national meetings related to estimating to communicate about the various TCCE resources and to determine gaps in TCCE guidance and research.	More comprehensive cost estimating guidance and research	Ongoing

e. Monitor vehicle modifications for highway design considerations.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date

Roadside Safety	Update NCHRP Report 350 on crash testing roadside safety hardware based on updated vehicle fleet	Participate in NCHRP project to update guidance, which will become an AASHTO publication	New AASHTO <i>Manual for Assessing Safety Hardware</i>	2010

6. Foster collaboration within AASHTO and with other organizations and disciplines

a. Promote implementation of the subcommittee's strategic goals through active participation and involvement of the technical committees.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Subcommittee on Design	Involve technical committees in fleshing out and implementation of SCOD strategic plan	Work through SCOD Vision Task Force to iteratively update and review activities listed in strategic plan	Living Strategic Plan document	Ongoing
Hydraulics/ Hydrology	Active communication with SCOD	TCHH Chairman or representative attends annual SCOD meeting [Include general statement for all TCs?]	Presentation to SCOD	Annually
Pavements	Provide annual work plans and reports SCOD [Include general statement for all TCs?]	Phil McConnell is a member of SCOD and JTCP and is a direct liaison. The Chair of the JTCP will attend SCOD annual meetings whenever issues arise requiring more SCOD attention.	Annual reports, reports to SCOD meetings, letter reports if necessary.	Ongoing
Cost Estimating	Participate in AASHTO committee meetings	Chair to actively participant in annual Subcommittee on Design meeting	Improved efficiency and quality of TCCE products	Ongoing
Cost Estimating	Complete and update Strategic Plan for the AASHTO SCOD [Include general statement for all TCs?]	Update input to SCOD Strategic Plan annually	TCCE's portion of the Strategic Plan for the AASHTO SCOD	October 31, annually
Value Engineering	Share best practices in Value Engineering	Speak at workshop at Transportation Research Board (TRB) meeting regarding VE and Context Sensitive Solutions	TRB Conference in Washington, DC	January 2009
Enviro Design [all TCs?]	Develop a workable funding mechanism to allow TC members to travel to TC meetings at least once a year	Explore all reasonable options for assuring adequate funding exists to enable every TC member to meet in-person at least once (preferably twice) every calendar year	Dedicated AASHTO source of travel funds	TBD

b. Coordinate and collaborate with SCOH and other AASHTO committees in the development of guidance, processes, and procedures.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Subcommittee on Design	Ensure that SCOD strategic plan aligns with SCOH and AASHTO strategic plans	SCOD Vision Task Force will review new AASHTO strategic plan and draft SCOH strategic plan and compare to draft SCOD plan	SCOD Strategic Plan that is aligned with SCOH and AASHTO	2010
Hydraulics/ Hydrology	Integrate bridge scour and wave forces issues with the Bridge Subcommittee	Periodically attend and present at the annual Bridge Subcommittee meetings	Communication	As needed
Pavements	Communicate regularly with Subcommittees on Design, Materials, Maintenance, Asset Management, and TSP2	Pavements has common interest areas with these groups. Opportunities to work together will be fostered by direct and indirect communication and common goals.	Joint research proposals, joint sponsorship of workshops, etc.	Ongoing and expanding
Cost Estimating	Avoid duplication and improve quality of cost estimating products	Include an agenda item for TCCE annual meeting for the AASHTO liaison to provide information on what other committees are doing	Improved efficiency and quality of TCCE products	Annually
Hydraulics/ Hydrology	Communicate with other technical committees	Schedule periodic joint meetings with the Technical Committee on the Environment and the TRB AFB60 Committee.	Interactive and ongoing dialog	Semi-annually

c. Coordinate with external organizations and other stakeholders to meet industry needs.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
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Subcommittee on Design	Reach out to ACEC, APWA, NACE, and other industry organizations to participate in SCOD meetings and activities	Provide invitations to meetings, offer membership on technical committees, and promote coordination of group activities	Increased coordination with industry	Ongoing
Pavements	Coordinate with ASTM, TRB, ASCE, NAPA, ACPA, etc.	JTCP members are members and active participants in other industry professional groups. We invite participation from both the asphalt and the concrete industries.	Workshops at TRB annual meeting, presentations to outside groups by JTCP members	Ongoing
Pavements	Coordinate with FHWA, local agencies	Plan to hold larger meetings on a two- or three-year interval. These larger meetings may include local agencies who often adopt the design procedures of the state agency.	Broader meetings on JTCP topics on a 2- or 3-year cycle	Currently planning for first meeting
Cost Estimating	Coordinate with the Transportation Estimators Association (TEA) and the Transport User Group (TUG)	Continue to coordinate annual meeting with TEA/TUG conference; participate in research; attend other national meetings related to estimating	Improved communication	Ongoing
Cost Estimating	Request external input on draft documents	Seek input from external entities during development of guidance by posting drafts on TCCE website and emailing notifications to stakeholders	Improved quality of cost estimating products	Ongoing

d. Work with federal, state, and local agencies to promote greater intermodal integration.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Subcommittee on Design	Coordinate with SCOH on SCOD's role in high speed rail issues, freight issues, interconnectivity, and other intermodal issues	Meet with officers of SCOH to offer assistance and determine role for SCOD	Plan for SCOD participation in intermodal issues	2010
Nonmotorized	Provide guidance for connections between bicycle and pedestrian facilities and transit	Review needs for guidance and produce document or request research assistance through NCHRP	Guidance on intermodal connections with bicycle and pedestrian transportation	2011
Geometric Design, [SCOTE], [SCOPT]	Establish guidance for geometric design of transit facilities within highway rights-of-way	Review results of TCRP project D-09, revise as appropriate, and shepherd through the AASHTO peer review and balloting process	New AASHTO <i>Guide for Transit Facilities on Highways and Streets</i>	2010

e. Promote information sharing within and between member agencies.

Committee Name	Major Work Task or Activity	Plan for Accomplishing Work Task	Product	Committee Completion Date
Subcommittee on Design				
All TCs	Encourage Communication between state DOTs	Set aside time for open discussion of states' issues and accomplishments within Committee meetings. This requires that the committee members gather information from non-participating states.	Inter-agency communication	At all committee meetings
Hydraulics/ Hydrology	Co-sponsor biennial hydraulics conference	Work with FHWA to coordinate conference every 2 years	Dissemination of state activities and critical issues	Every two years
Pavements	Participate in pooled fund for AASHTOWare development of software for new pavement design guide	18 states are participating as of Dec 2008	Analysis software for <i>Mechanistic-Empirical Pavement Design Guide</i>	Beginning Jan 2009
Cost Estimating	Interact with States and Provinces not represented on the technical committee	Use regional contact list to promote communication between TCCE members and non-members within AASHTO regions; make presentations at Design annual meeting; promote use of cost estimating guidance through email notifications	Shared information, improved quality of cost estimating products	Ongoing
Cost Estimating	Interact with other cost estimating experts	Continue to use the Transportation Estimators Association (TEA) list-serv to communicate, gather data, and pass along information related to committee work	Shared information, improved quality of TCCE products	Ongoing
Value Engineering	Conduct biennial conference on value engineering	Coordinate conference with agencies, FHWA, DOT's, VE practitioners, etc.	AASHTO Value Engineering Conference in San Diego, CA	September 2009
Value Engineering	Develop value engineering web site to share information	Provide value engineering information and contact information	TCVE Website: http://www.wsdot.wa.gov/partners/aashtove/	Ongoing