

## EDC2 STATE DEPLOYMENT TEAM -- IMPLEMENTATION PLAN

State DOT Team Co-Chair	FHWA Team Co-Chair	EDC Team Initiative Title (Tool or Technology)
Blake Roxlau	Greg Heitmann	NEPA/Planning/Design Streamlining
A – Team Members		B – Need/Application of Tool/Technology & Implementation Issues to Address
Richard Pena (NMDOT) Shelly Herbst (MAI) Ross Lujan (CH2MHill) George Herrera (Soulder Miller & Assoc.)		<ul style="list-style-type: none"> <li>• Issue is beginning post NEPA activities before final document is approved and future funding is identified.</li> <li>• Will formalize previous discussions between NMDOT and FHWA on this topic.</li> <li>• Will be addressed with Location Study Procedures (LSP) Manual under development</li> </ul>
C – Desired Outcome (2013-2014 Goals)		D – Performance Measures
<p>-Formalize the point in project design at which a final “footprint” is established in order for Environmental staff and Right of Way staff to complete their certifications.</p> <p>-Institute detailed early right of way acquisition procedures such as developing individual CEs for parcels to be acquired.</p> <p>-Clarification of the phased project development process. Environmental documentation may certify phases such as final design or individual construction elements as funding becomes available and is programmed in the STIP.</p>		Inclusion of streamlining measures in updated LSP Handbook



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E – Implementation Plan Activities			
Activity No.	Description of Activity	Target Completion Date	Schedule/Status
1	Select consultant for Location Study Procedures (LSP) update.	January 2014 Completed	Assigned to PB under an on-call services contract. NMDOT reviewing a scope of work and cost estimate. Notice to Proceed approved on 12/18/13.
2	Regular meetings with consultant team will monitor progress of incorporating desired streamlining efforts.	Ongoing	To begin after PB begins work PB has completed background research and has begun to hold team meetings
3	Location Study Procedures (LSP) update is completed.	December 2014 On-track	On track



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State DOT Team Co-Chair	FHWA Team Co-Chair	EDC Team Initiative Title (Tool or Technology)
Blake Roxlau	Greg Heitmann	Programmatic Agreements Cont'd
A – Team Members		B – Need/Application of Tool/Technology & Implementation Issues to Address
Laurel Wallace, NMDOT Cultural Resources Coordinator Harvey Kaplan, NM State Historic Preservation Office (SHPO) staff		The FHWA Program Comment issued for streamlining the Section 106 review process for Post-1945 concrete and steel bridges affords the opportunity to refine our past programmatic effort with NMDOT historic bridges (the 2006 “Management and Preservation of NMDOT Owned Historic Bridges”), by examining our past methodologies used for reevaluation of bridges, and refining and further streamlining the process outlined in an updated Programmatic Agreement for NMDOT historic bridges.
C – Desired Outcome (2013-2014 Goals)		D – Performance Measures
Further refinement and identification of bridges in New Mexico that warrant historic preservation efforts.		Signed Programmatic Agreement with NM SHPO which designates a narrowly defined list of bridges that warrant historic preservation measures.



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### E – Implementation Plan Activities

Activity No.	Description of Activity	Target Completion Date	Schedule/Status
1	Completion of updated historic bridge survey (1954-1963 bridges) (Looking at a consultant effort. Meeting with SHPO to refine scope of work on June 25, 2013. The dates are slipping)	Summer 2013 completed	Technical work is underway. Compiling data will be completed according to the contract, March 15, 2014.
2	Updated PA w/FHWA/NMDOT/NMSHPO	August 2014 At SHPO for review	Once the data is available, the PA will can be updated, likely with an insertion of the updated data via an appendix.
3	Submittal of list of National Register eligible historic bridges to FHWA	Fall/Winter 2013	This activity is dependent on the PA completion. It will likely follow on one month behind the PA, so this would be September 2014.
4	Update existing Programmatic Categorical Exclusion agreement between NMDOT and FHWA-NM Division. This update will include expanding the February 2006 Environmental Assessment Technical Memo (focused on EA format) focused on our new policy to begin with the lowest level of NEPA documentation, i.e., start with a CE.	December 2013	In conjunction with the Improving the Quality of Environmental Documents Initiative, this is going to be delayed to analyze the impact of the new CE Checklist updated in 2013.
5	Complete advanced permittee wetland agreement with USACE, NMDOT, and FHWA.	March 2014	Completed on 3/26/14

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State DOT Team Co-Chair	FHWA Team Co-Chair	EDC Team Initiative Title (Tool or Technology)
Dolores Gallegos	Jolena Palau	LPA for Fed-Aid Projects
A – Team Members		B – Need/Application of Tool/Technology & Implementation Issues to Address
Elias Archuleta (NMDOT) David Quintana (NMDOT) Lesah Sedillo (NERPO) Lee Cabeza de Vaca (NMLTAP) Ray Concho Jr. (Acoma Pueblo) Local Agency TBD Derek Meier, (Wilson & Co., ACEC Rep.) Joe Sanchez (AOI) Dave Maxwell (Eng. Inc) Mike Malloy (First American)		<ul style="list-style-type: none"> <li>• Certification Program (LPA) (Not moving forward)</li> <li>• Certification Program (Consultants) (Not Moving forward)</li> <li>• Education of LPA staff (Has been done)</li> <li>• Tiered approach</li> <li>• NMDOT Construction Bureau Training in Spring 2013</li> <li>• LTAP can help champion and provide resources</li> <li>• New HandBook</li> <li>• Restructure Administration of T/LPA</li> <li>• Oversight by NMDOT Construction Bureau</li> <li>• Local Training of T/LPA requirements</li> </ul>
C – Desired Outcome (2013-2014 Goals)		D – Performance Measures
Have a consultant/Contractor certification program in place and approved by FHWA.		Conduct annual audits of certified consultants who have been hired by LPAs to provide project development and construction management to ensure they are following requirements. ... (Based on other states responses and significant turnaround within entities and NMDOT we will not be implementing a certification program)

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Activity No.	Description of Activity	Target Completion Date	Schedule/Status
1	Hold meetings with team members to discuss initiative and assign tasks	December 2013	Held several partnering meetings.  Holding quarterly T/LPA meetings with Region, District, PINF Finance and SCB.
2	Develop training for LPA and consultant contractors	March 2013	FHWA, NMDOT, and Wilson and Company through Northern New Mexico College have created a presentation outlining the federal and state requirements for Local Lead Projects. Training was modified to support new Handbook and will be modified once more to assure NMDOT requirements are included. (Six classes were provided throughout the state from May-November with approximately 300 attendees, that consisted of consultants, local entities, tribal entities, FHWA and NMDOT employees)
3	Obtain approval from NMDOT and FHWA Executive Leadership to establish a certification program for this training.	August 2013	Letter sent to NMDOT Executive Leadership from FHWA Executive Leadership requesting NMDOT's support on the certification program and process review. (Not moving forward with certification program.)

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### E – Implementation Plan Activities

Activity No.	Description of Activity	Target Completion Date	Schedule/Status
4	Hold LPA training. Eastern will be contracted by LTAP to give updates and presentations 1 to 2 times a year depending on need. Initial T/LPA training current year in each district.	March - August 2013; June-October 2014	Class schedule below May 2014 Albuquerque June 2014 Gallup July 2014 Espanola August 2014 Roswell Sept 2014 Las Cruces October 2014 Farmington Classes successfully completed for 2014
5	All attendees; LPAs, NMDOT staff, FHWA staff, consultants, constructors, will receive a certificate of attendance.	June 2013	All participants have received a certificate, pending the training in D2, D4, and D6. No certification at this time
6	Notify LPAs with a list of the attendees of the LPA training. An email will be sent by LTAP after every training session.	August 2013	LTAP will send email after training in Santa Fe. Unsure what this target was
7	LPA Manual will be updated to reflect MAP 21 changes and to reflect the LPA Training Presentation.	February 2014	The document will be reviewed by the EDC LPA Team and comments should be turned in Dolores Gallegos by January 15, 2013. Completed March 2014.
8	Document the LPA Process to reflect the NMDOT LPA process to ensure the training and the LPA Handbook reflect the process.	January 2014 January 2015	The LPA committee will ensure there is a (5page maximum) detailed written process the LPA Region and District coordinators can follow. On going process currently 60% complete

Notes: Tribal Component will be added to the T/LPA Manual within a few months of the LPA Manual completion.



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State DOT Team Co-Chair	FHWA Team Co-Chair	EDC Team Initiative Title (Tool or Technology)
Jeff Mann & Isadora Fanning	Robert Bency	Intelligent Compaction & 3-D Modeling (3 D Modeling to be determined)
A – Team Members		B – Need/Application of Tool/Technology & Implementation Issues to Address
Mark Marrujo (NMDOT) Chris Pappas - Survey ACNM – Rod Billingsley Luis Melgoza and Marilyn Valdez Isadora Fanning (NMDOT) Bryce Simons (NMDOT) Robert McCoy – NMDOT Research Bureau Robert Young – NMDOT Pavement James Gallegos – NMDOT Materials Bureau Tisha Lujan – NMDOT Construction Bureau Sherri Hollifield – NMDOT Design		<u>Proposed Need/Application/Technology and Implementation Issues</u> 1. <u>Need</u> : Evaluate the effectiveness of the IC method in terms of increased compaction, consistency and uniformity 2. <u>Application of Tool</u> : NMDOT roadway construction for subgrade, base and HMA 3. <u>Technology and Implementation Issues</u> : a. Currently no NMDOT spec b. Are there contractors who can provide this service? c. Requires specific equipment – does this unfairly exclude other contractors who do not have equipment? Determine available equipment manufacturers. d. Negative budget impacts
C – Desired Outcome (2013-2014 Goals)		D – Performance Measures





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<p style="text-align: center;"><u>Proposed Preliminary Desired Outcomes</u></p> <ol style="list-style-type: none"> <li>1. To utilize this procedure on one NMDOT project to demonstrate effectiveness and compare to conventional methods of compaction density.</li> <li>2. Special Provision to provide data collection</li> <li>3. Draft specification.</li> <li>4. Monitor performance for performance measures.</li> <li>5. 3D Modeling for design and construction possible IDD and Specification</li> </ol>	<p style="text-align: center;"><u>Proposed Performance Measures</u></p> <ol style="list-style-type: none"> <li>1. Project Identification, PIF for VEDA software, Letter of Request to FHWA</li> <li>2. Project Special Provision</li> <li>3. Compare the Intelligent Compaction results to conventional compaction results specifically density and uniformity.</li> <li>4. Evaluate the uniformity and consistency of the density of materials. Evaluate sample frequency compared to conventional methods</li> <li>5. Provide report detailing results of the comparison, advantages and disadvantages of this technique.</li> <li>6. 3D modeling design requirements</li> <li>7. 3D modeling construction specification</li> </ol>
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### E – Implementation Plan Activities

Activity No.	Description of Activity	Target Completion Date	Schedule/Status
1	Preliminary meeting between David Trujillo, Isadora Fanning and Jeff Mann to discuss preliminary Implementation Plan.	1/15/2013	Complete
2	Participate in PreCon for Central Federal Lands Highway Division project NM 35-1(1) Alamogordo-Elk. Through communications with D2 and CFL Design Team, this project will include Intelligent Compaction. Kelly Montoya and Isadora Fanning, representing the Intelligent Compaction IDC Team, attended the Pre-Con to collect information pertaining to the Intelligent Compaction planned efforts.	1/24/2013	Completed



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3	Implementation Plan - Currently NMDOT awaiting analysis from Central Federal Lands Highway Division project NM 35-1(1) Alamogordo-Elk for data obtained for IC and results for HMA placed. 3-D modeling is currently underway for earthwork construction on NMDOT Project CN G3A92 (US 54), awaiting 3D modeling information to compare as-let earthwork quantities to 3D modeling and template.	May/June	IC Completed/3D Modeling on-going 2/26/2014
4	Initiate a pilot project to apply Intelligent Compaction 2100910 HMA/WMA, 2100911 & 2100912 Base Course and Subgrade Prep	Fall 2014 to Summer 2015	2100910 letting September 2014
5	3D Modeling kick off meeting to determine design and construction requirements, equipment or software limitations, and draft bullet items for a Special Provision	June 18 <sup>th</sup> , 2014	
6	Draft Special Provision 3D modeling and project selection.	Winter 2014	
7	Initiate a pilot project to apply 3D model design and construction	Spring 2015	



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State DOT Team Co-Chair	FHWA Team Co-Chair	EDC Team Initiative Title (Tool or Technology)
Ray Trujillo/ Geotechnical Section Representative for GRS	Thiet Nguyen	Prefabricated Bridge Elements and Systems (PBES) / Geosynthetic Reinforced Soil (GRS)
<b>A – Team Members</b>		<b>B – Need/Application of Tool/Technology &amp; Implementation Issues to Address</b>
<p>Same team members as EDC 1 Initiative Teams for GRS and PBES, plus Yamayra Rodriguez (FHWA) &amp; Armando Armendariz (NMDOT), Danton Bean (HDR), Sean Melville (BHI), Carlos Padilla (Radian)</p>		<ul style="list-style-type: none"> <li>• Policy has been developed and added to the NMDOT Bridge Procedures and Design Guide dated April 2013 (refer to our website for Design Guide, Chapter 2)</li> <li>• Can potentially implement under SEP-14 What are the benefits? Do they apply?</li> <li>• Slide-in Bridge Construction has been done under DB in other states. No state has done a Design-Bid-Build project with this application.</li> </ul>
<b>C – Desired Outcome (2013-2014 Goals)</b>		<b>D – Performance Measures</b>
<p>Each bridge project will be considered for PBES or ABC. Internal Bridge Design Engineers and Consultant Bridge Engineers have been notified by correspondence to look at PBES/ABC/GRS/Slide-in Bridge Construction for each bridge project. Revise RFP language for consultant bridge projects directing consultants to consider PBES/ABC/Slide-in Bridge Construction/GRS. Consultant will compare costs if any of the applications are competitive or beneficial.</p>		<p>Each bridge project requires a Bridge Type Selection Report. The report will serve as a tool to ensure the responsible bridge engineer considered PBES/ABC/GRS/Slide-in Bridge Construction.</p>
<b>E – Implementation Plan Activities</b>		



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Activity No.	Description of Activity	Target Completion Date	Schedule/Status
1	NMDOT Bridge Procedures and Design Guide will be updated to include language on a policy for PBES/ABC/GRS/Slide –in Bridge Construction	August 2013	Complete in April 2013
2	Continue to participate in webinars, peer-to-peer exchanges, seminars, etc. so as to keep up with new information, technology changes, success stories, etc. in these applications.	On-going	On-going
3	Collect design and construction specifications used in other states. Collect contracting challenges and construction difficulties.	Ongoing	Ongoing
4	CN 2100950-NM 13 over Eagle Draw – use of full depth precast deck panels. Had issues with fabricator (Castillo Prestress) who was not cooperative and delayed the project completion 2 months later than desired.	June 2013 Construction completion	September 2013 Construction completed
5	CN 1100361 – I-10 over Avenida de Mesilla - use of full depth precast deck panels. Project under construction. Different fabricator (Coreslab Structures) than the CN 2100950 project which has been more cooperative and project going okay so far.	Construction scheduled to be completed by April 2014	Construction completed October 2014.



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6	CN A301180-I-25/PDN –GRS design being used for roadway retaining wall applications at 3 locations.	Construction scheduled for completion by October 2014	Project is complete.
7	CN 4100640-NM 419 Bridge utilizing GRS abutments - IBS-GRS preliminary geotechnical design completed for two span application	Construction scheduled.	Construction will begin soon.
8	CN 4100480-FR2045 over I-25-Precast box girders pier caps, abutment caps and wingwalls being utilized. Contractor given 45 calendar days to replace bridge. Final plans turned in for Production.	Bridge construction scheduled for completion by August 2014.	Construction completed by October 2014.
9	CN LC00100-I-25 over Missouri Ave. – HDR proposed a lateral bridge slide which will compare construction costs, user delay costs, traffic control, and number of days to complete, etc. versus conventional bridge construction.	Decision on bridge and construction type will be made by January 2014	District 1 decided against the lateral bridge slide.
10	New Project CN M400503 on NM 419, MP 27.5 GRS Bridge. Being evaluated for GRS abutment application.	District will build new bridge by Fall 2015 with District Maintenance forces.	Currently under design.
11	New Project CN 4100320 on NM 104, MP 63.39. GRS Bridge being evaluated for GRS abutment application.	Being evaluated pending drainage data.	Project Production date of June 2015

## EDC2 STATE DEPLOYMENT TEAM -- IMPLEMENTATION PLAN

State DOT Team Co-Chair	FHWA Team Co-Chair	EDC Team Initiative Title (Tool or Technology)
Elias Archuleta	Jolena Palau	Alternative Project Delivery Task Force
A – Team Members		B – Need/Application of Tool/Technology & Implementation Issues to Address
Albert Thomas (ACEC-NM) Mike Beck (ACONM) Chuck Hamilton (Hamilton Construction) Grey Kite (Kiewit) Other from ACONM TBD Richard Martinez (NMDOT) Liz Travis (NMDOT) Frank Lozano (FHWA)		<ul style="list-style-type: none"> <li>• Purpose of the team is to develop language to propose to NM Legislative Committees to change State procurement codes.</li> <li>• Currently vertical construction and schools are allowed to use some of these techniques.</li> <li>• P3, ATC, DB, and CMAR/CMGC will all be explored through this task force.</li> </ul>
C – Desired Outcome (2013-2014 Goals)		D – Performance Measures
New Mexico procurement code does not allow for alternative project delivery on transportation projects. <b>As such this will continue to be a long term effort and not pursued as part of EDC2 at this time, though as noted below the team will convene to discuss further.</b>		TBD



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### E – Implementation Plan Activities

Activity	Description of Activity	Target Completion Date	Schedule/Status
1	Project team to individually review Recorded Webinar from the Mo/DOT and provide comments	January 2014	Completed
2	Meeting with team members to discuss possible implementation plan to utilize ATC's in traditional projects	January 2014	Completed 4/29/14
3	Task force established regular monthly meetings to review previous efforts to promote legislative efforts to incorporate various alternative contracting methods into the NM State Procurement Code	Monthly starting April 2014	On Going 4/29/14 - completed 5/28/14 - completed 6/23/14 - scheduled
4	Prepare draft language for proposed legislation and meet with ACNM's leadership to solicit input	June 2014	Completed
5	Review comments from ACNM prepare briefing for NMDOT Executive Staff to determine direction for pursuing legislation in the 2015 Legislative Session	July 2014	Completed
6	Task force developed draft legislation and submitted to the NMDOT for consideration in their 2015 legislative package. <ul style="list-style-type: none"> <li>- NMDOT submitted a request to include Alt. Project Delivery legislation in the 2015 Legislative Package to the Governor's Office for Approval</li> <li>- Task Force has met with Sen. Griego who has agreed to sponsor the legislation and carry it through the Senate and with Rep. Larranaga who will carry through the House</li> <li>- The bill could be introduced by either the administration or through the above mentioned legislators</li> <li>- Bill language is being prepared by Legislative Council Service</li> </ul>	September 2014	<b>Completed</b>
7	Alternative Project Delivery Legislation introduced in the 2015 NM Legislative Session	January 2015	<b>On Going</b>

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State DOT Team Co-Chair	FHWA Team Co-Chair	EDC Team Initiative Title (Tool or Technology)
Blake Roxlau	Greg Heitmann	Improving the Quality of Environmental Documents
A – Team Members		B – Need/Application of Tool/Technology & Implementation Issues to Address
Jeff Fredine (Parsons Brinkerhoff) Shelly Herbst (MAI)		TBD
C – Desired Outcome (2013-2014 Goals)		D – Performance Measures
NMDOT has a new CE Checklist (adopted on 2/19/13). The team would like to give some time to evaluate its effectiveness before pursuing any further action. A target date is 9 months (March 2014) to reconvene, assess effectiveness, and determine with there is a need to pursue this EDC initiative.		Environmental Practitioners' comfort level





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State DOT Team Co-Chair	FHWA Team Co-Chair	EDC Team Initiative Title (Tool or Technology)
Bruce Webster	Luis Melgoza	High Friction Surface Treatments (HFST)
A – Team Members		B – Need/Application of Tool/Technology & Implementation Issues to Address
<p>Bruce Webster, NMDOT Pavement Design            Afshin Jian, NMDOT Traffic Safety            James Gallegos, NMDOT State Materials Lab            Luis Melgoza, FHWA Safety/Pavement Engineer            Robert Bency, FHWA Area Engineer</p>		<ol style="list-style-type: none"> <li>1. <u>Need</u>:               <ol style="list-style-type: none"> <li>a. Reduce run of the road crashes</li> <li>b. Wet weather crashes</li> <li>c. Improve loss of friction due to aggregate polishing</li> <li>d. Improve high friction demand on curves, on/off ramps, etc.</li> </ol> </li> <li>2. <u>Application of Tool</u>: NMDOT roadway application for locations identified with high run of the road crashes due to loss of friction.</li> <li>3. <u>Technology and Implementation Issues</u>:               <ol style="list-style-type: none"> <li>a. Currently no NMDOT spec</li> <li>b. Are there contractors who can provide this service?</li> <li>c. Requires specific equipment – does this unfairly exclude other contractors who do not have equipment?</li> <li>d. High cost</li> <li>e. Site specific (needs to be identified by crash data)</li> </ol> </li> </ol>
C – Desired Outcome (2013-2014 Goals)		D – Performance Measures



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<ol style="list-style-type: none"> <li>1. Develop project selection / identification procedures, criteria</li> <li>2. Draft specification</li> <li>3. Section of roadway identified by NMDOT Traffic Safety data as a candidate for the HFST</li> <li>4. Monitor performance of HFST</li> <li>5. NMDOT approved products list</li> <li>6. Provide high friction</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduction of crashes after application</li> <li>2. Improvement of pavement friction</li> <li>3. Use project selection criteria to identify possible candidates</li> <li>4. Development project selection / identification procedures, criteria.</li> <li>5. Draft specification</li> </ol>
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### E – Implementation Plan Activities

Activity No.	Description of Activity	Target Completion Date	Schedule/Status
1	Develop project selection / identification procedures, criteria	Ongoing	Ongoing
2	Identify candidate site project/site	Completed	Two sites have been Identified (D6&D5), with more to come. We are working with Andy Mergenmeier from FHWA – RC to provide assistance in site evaluation in June 2014
3	Initiate a pilot project to apply HFST	Ongoing	NMDOT Traffic Section to do project design for D6 candidate.
4	Draft specification	Ongoing/ under review	Specifications developed / under review.
5	Track performance of HFST	Ongoing	Ongoing



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6	Develop Research project	On going	NMDOT Traffic Section to do project design for D6 candidate.
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State DOT Team Co-Chair	FHWA Team Co-Chair	EDC Team Initiative Title (Tool or Technology)
Charles Remkes	Marilyn Valdez	National Traffic Incident Management Responder Training
A – Team Members		B – Need/Application of Tool/Technology & Implementation Issues to Address
Lee Cabeza de Vaca (LTAP) Barbara Valencia (LTAP) Elizabeth Lopez (NMDOT) Antonio Jaramillo (NMDOT D-3 Traffic Engineer) John DiRuggiero (NMDOT) Marilyn Valdez (FHWA) Rodolfo Monge-Oviedo (FHWA) Dino Franco (ACNM) Ron Shutiva (Tribal Liaison) Orlando Garcia (Pueblo of Acoma Fire Chief) Public Safety – State Police/Department of Public Safety, Albuquerque Police Department, Albuquerque Fire Department, Albuquerque EMS; State Legislature – legislative aide TBD		NMDOT is in the process of implementing an Incident Management Plan (IMP) for the Albuquerque Metropolitan Area which demonstrates the need of an organized and effective incident management strategy with minimized interruption to traffic operations and safety. The responder training will add additional value to a quick and safe clearance. The TIM will be carried on Statewide. State to develop an Implementation Plan.
C – Desired Outcome (2013-2014 Goals)		D – Performance Measures

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<p>Provide “Train the Trainer (TtT)” sessions Statewide as well as training sessions for first responders and other agencies related to traffic incident management.</p>	<p>Conduct TIM assessments to compare roadway clearance time, incident clearance time and secondary crashes. Analyze roadway incident data.</p>
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### E – Implementation Plan Activities

Activity No.	Description of Activity	Target Completion Date	Schedule/Status
1	EDC II TIM Exchange and introduction meeting,	June 2013	Completed
2	Hold meeting with team members for initiative and assignment of tasks.	July 2013	Completed
3	State Develops TtT implementation Plan	July/August 2013	Completed
4	Provide outreach to different agencies about the training.	Ongoing	Ongoing



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5	Conducted Tier 2 and Tier 3 TIM Training for Mid-Level Managers and Executives	October 22-23, 2013	Completed
6	Provide TtT for first responders as well as other agencies.	April 2014	Completed: <ul style="list-style-type: none"> <li>• April 29-30, 2014 in Socorro, NM</li> <li>• May 1-2, 2012 in Santa Fe, NM</li> </ul>
7	Provide Training for first responders in the 4 hour sessions by the trained trainers.	Ongoing	Ongoing -- 6 additional sessions have been completed since the April/May sessions in 2012. They include two sessions in Catron County, one session in the four corners area, one session in Los Alamos and two sessions in Rio Arriba County



## EDC2 STATE DEPLOYMENT TEAM -- IMPLEMENTATION PLAN

State DOT Team Co-Chair	FHWA Team Co-Chair	EDC Team Initiative Title (Tool or Technology)
Juan Rael	Robert Bency	Diverging Diamond Interchange Design & Construction
A – Team Members		B – Need/Application of Tool/Technology & Implementation Issues to Address
<u>Proposed At This Time</u> Juan Rael (NMDOT) Afshin Jian (NMDOT) David Quintana (NMDOT D5) Habib Abi-Khalil (NMDOT D5) Richard Pena (NMDOT)		<u>Proposed Need/Application/Technology and Implementation Issues</u> 4. <u>Need</u> : Evaluate the alternatives of this interstate interchange to determine the improvements to meet the requirements as well as the future traffic demands 5. <u>Application of Tool</u> : Using the NMDOT Location Study Procedures, the Diverging Diamond Interchange (DDI) was the recommended alternative based on the evaluation criteria 6. <u>Technology and Implementation Issues</u> : <ol style="list-style-type: none"> <li>a. Will be the first DDI in the state</li> <li>b. The DDI will increase capacity and safety</li> <li>c. Additional public outreach will be included to educate the public, prior to opening the DDI</li> <li>d. During the study, the DDI was within 5% of cost of all other alternatives (Diamond, Free Flow, Roundabouts)</li> </ol>
C – Desired Outcome (2013-2014 Goals)		D – Performance Measures

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<p><u>Proposed Preliminary Desired Outcomes</u></p> <ol style="list-style-type: none"> <li>6. To design &amp; construct this type of interchange on one NMDOT project to demonstrate effectiveness and compare to conventional interchange designs.</li> <li>7. Include DDI's in the evaluation of interchange studies and design.</li> <li>8. Monitor performance of operations after construction is complete.</li> </ol>	<p><u>Proposed Performance Measures</u></p> <ol style="list-style-type: none"> <li>8. Utilize procedure on one NMDOT project with comparison with conventional interchange design.</li> <li>9. Measure effectiveness of the traffic operation vs. design modeling.</li> <li>10. Successfully reach out to the public prior completion of construction, in order to educate them on this new type of interchange.</li> </ol>
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### E – Implementation Plan Activities

Activity No.	Description of Activity	Target Completion Date	Schedule/Status
1	Include the evaluation of a Diverging Diamond into the study of alternatives for the design of the Cerrillos Road interchange	04/15/2013	Complete
2	Reaching out to fellow DOT's with prior experience in the design and construction of DDI's. Representatives of NMDOT and FHWA attended a field review of completed DDI's in Orem, Utah January 27 -29, 2014. Basis of the field review was to meet with representatives of UTAH DOT to discuss lessons learned for three completed DDI's and gain knowledge on the design and development of the geometry necessary. Additionally, the approach that was taken in public outreach in expectations and driver awareness of the proposed DDI's. Note the constructed DDI's were operational for access onto existing Interstate System and connection frontage roads	1/29/2014	Complete



### EDC2 STATE DEPLOYMENT TEAM -- IMPLEMENTATION PLAN

3	<p>Implementation of Stakeholders comments for the Design of the DDI:</p> <ul style="list-style-type: none"> <li>• Completion of IACR for FHWA NM Division records *June 10, 2014</li> <li>• Development of geometric design constraints *June 30, 2014</li> <li>• Incorporation of Stake Holders – City of Santa Fe and SF Regional MPO, NMDOT Planning for trail development multi model aspects, ADA, Pedestrian, bicyclists* June 30, 2014</li> <li>• Completion of Environmental, ROW, Utilities, ITS, Rail Road Certifications *July 1, 2014</li> <li>• Completion of 30%, 60% , 90 % plans reviews July 31, 2014</li> <li>• Final PSE August 6<sup>th</sup>, 2014</li> <li>• Production Deadline August 27, 2013</li> </ul> <p>*Note: dates provided are target dates for design of DDI .</p>	August 2014	Completed
4	<p>NMDOT received a STIC Grant to Provide additional public outreach to educate the public prior to opening the DDI. NMDOT is developing a virtual video which will allow the general public to get first-hand experience in virtual driving within a DDI. This virtual driving tour will be promoted at special events and meetings within the Santa Fe and Albuquerque metropolitan area , additionally a brochure will be developed to be handed out for a DDI website for public involvement. Further, the website will promote a virtual driving tour access for personal home computers.</p>	Jan.-Mar 2015	Planned