

Design and Construction

Presented to the

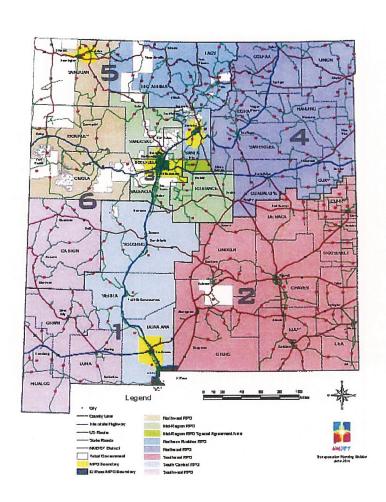
Transportation Infrastructure Revenue Subcommittee

July 15, 2016

Design / Construction

- The Design / Construction Division
 - Engineering and design services for NMDOT
 - Advancing any project from concept to final design
 - NMDOT Mission: on-time, on-budget multimodal project delivery
 - Construction oversight for NMDOT
 - Providing technical expertise for oversight ensuring federal funding participation
 - NMDOT Mission: on-time, on-budget multimodal project delivery
- The primary responsibility of Design is to develop projects
 - Statewide Transportation Improvement Plan (STIP). The projects included in the construction program are funded through Federal-aid and the State Road Fund and total approximately ±\$400M / annually (±\$1.5B 2016-2019)
 - NMDOT's overall annual budget of ±\$800M
 - http://dot.state.nm.us/content/dam/nmdot/STIP/Official STIP.pdf
- Design / Construction staffing ±300 FTE's who provide project development project development support or construction oversight
 - professional or consulting services \$20M \$30M annually

Design and Construction Division



Infrastructure

- · North, Central, South Regions
- Programs
 - Bridge, Traffic, Drainage

Plans Specifications Estimate

Environmental

Environmental Geology

Survey

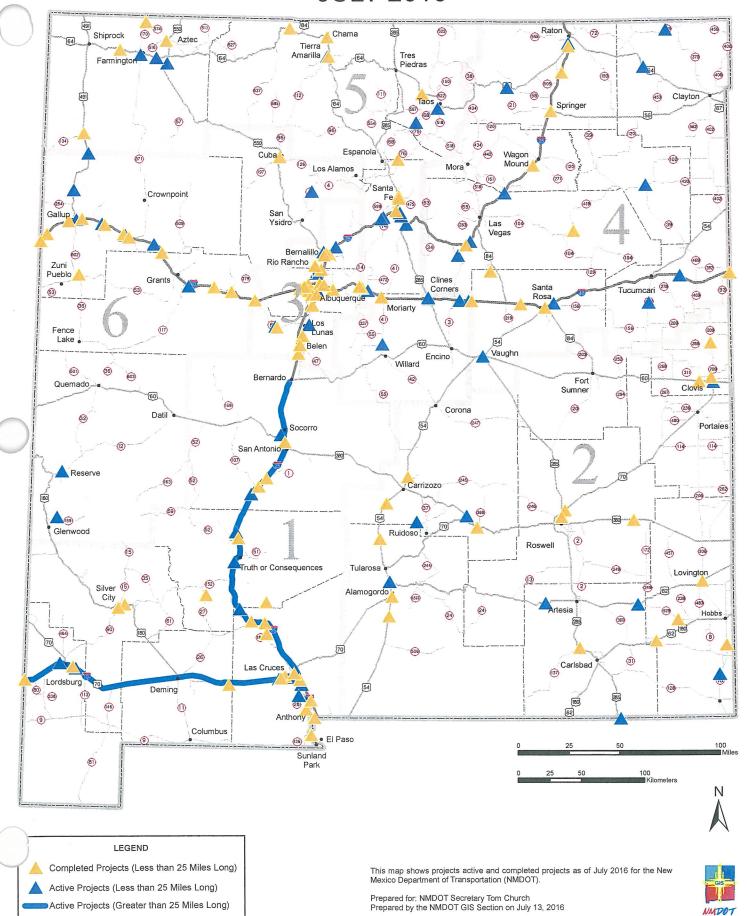
Right of Way / Utilities

Construction Civil Rights

Types of Projects:

- New Construction
- Roadway/Bridge Reconstruction
- Roadway/Bridge Rehabilitation
- Drainage Improvements
- Intersection Signalization & Lighting

NMDOT ACTIVE AND COMPLETED PROJECTS JULY 2016



Statewide Transportation Improvement Program (STIP)

- Statewide Transportation Improvement Program (STIP) is a 4-Year Fiscally Constrained Plan based on available Federal Funds
- http://dot.state.nm.us/content/dam/nmdot/STIP/Official STIP.pdf
 - Federal funding is eligible for use on
 - Interstates (I-10, I-25 & I-40)
 - National Highway System (US designated Routes)
 - Major State, County or Local roads designated as major collector or arterial routes
 - Core Funding Programs
 - National Highway Preservation Program (NHPP)
 - Surface Transportation Program (STP)
 - Highway Safety Improvement Program (HSIP)
 - Rail-Highway Grade Crossings Program
 - Congestion, Mitigation and Air Quality (CMAQ)
 - Metropolitan Planning

Project Prioritization

- NMDOT manages the programming, design, and development of projects which makes up the STIP
- The STIP includes any project that utilizes any amount of federal-aid funding and projects that are regionally significant to either the State or the local Metropolitan Planning Organization (MPO).
- Prioritization of projects (in the STIP or not) based on the following criteria:
 - safety/fatalities
 - roadway condition
 - economic development
 - congestion mitigation
- NMDOT staff prioritize projects by balancing the available funding between statewide needs and local priorities.

Fixing America's Surface Transportation Act (FAST ACT)

- President Obama signed into FAST ACT into law which authorizes Federal highway, highway safety, transit, and rail programs for five years From Federal fiscal years (FY) 2016 through 2020.
- The FAST Act authorizes \$305 billion from both the Highway Trust Fund and the General Fund (GF) of the United States Treasury. It provides \$225 billion in Highway Trust Fund (HTF) contract authority over five years for the Federal - aid Highway Program, increasing funding from \$41 billion in 2015 to \$47 billion in 2020.
- What this means for New Mexico— is an overall increase from \$354.4 million in FY2015 to \$372.4 million in FY2016 which represents a \$18 million or 5.1% increase. Year over year from FY2016 to FY2020 New Mexico will see a 2% to 2.4% increase.
- New Mexico's allocation of the freight formula funds represents approximately \$58.8 million from FY2016 to FY2020. New Mexico's Primary Highway Freight System (PHFS) miles are less than 2% of all PHFS miles, so NM can use the freight apportionment anywhere on the National Freight Network, which would include all Interstates in New Mexico + critical urban and rural corridors NM identifies.

Construction Gaps

Fiscal Year 2017 Approved Operating Budget Compared to Estimated Need

(In Millions)

		Budget		Needs	;	Gap	
Roadway Reconstruction and Rehabilitation	Estimated need of 11.9 billion over the next 20 years or an average of \$595 million per year. Performing 75 percent of the estimated requirement would address the most critical needs.	\$	274.0	\$	446.3	\$	172.3
Bridge Preventive Maintenance and Minor Rehabilitations	Preventive maintenance and minor rehabilitation projects on existing inventory.	\$	11.6		31.7	\$	20.1
Major Bridge Rehabilitations	Major rehabilitation projects on bridges that require deck replacements and minor superstructure and substructure work.	\$	4.4	\$	11.5	\$	7.1
Bridge Replacements	Structurally deficient bridges that have met their service life. Based on optimal spending with a goal of satisfying all needs in a 10 year period. Need to replace approximately 27 bridges per year based upon an average 50 year design life at an average cost of 3.1 million per bridge.	\$	33.0	\$	83.7	\$	50.7
Major Bridge Projects	Functionally obsolete bridges and other capacity projects such as major intersections. No major bridge projects in FY 2016. Based on estimated cost of Rio Bravo. Currently a backlog of \$317 million in FO projects.	\$	-	\$	317.0		
Total		\$	323.0	\$	890.2	\$	250.2

ESTIMATION of OBLIGATION LIMITATION for FFY2017

AVAILABLE for PERCENTAGE DISTRIBUTION

 NHPP
 \$ 135,198,155

 STPS
 \$ 19,374,037

 STPR
 \$ 9,299,411

 STPF
 \$ 19,281,840

\$ 183,153,443

D1	EMPO	D2	D3	MRMPO		D4	D5	 D6	Total
\$ 31,081,139		\$ 35,696,606	\$ 38,608,746		\$	25,037,076	\$ 32,180,060	\$ 20,549,816	\$ 183,153,443
D1	EMPO	 D2 ·	D3	MRMPO	,	D4	D5	 D6	Total
\$ 22,943,127		\$ 26,350,120	\$ 28,499,771		\$	18,481,588	\$ 23,754,316	\$ 15,169,233	\$ 135,198,155
\$ 3,287,774		\$ 3,776,000	\$ 4,084,047		\$	2,648,431	\$ 3,404,018	\$ 2,173,767	\$ 19,374,037
\$ 1,578,110		\$ 1,812,455	\$ 1,960,316		\$	1,271,230	\$ 1,633,907	\$ 1,043,394	\$ 9,299,411
\$ 3,272,128		\$ 3,758,031	\$ 4,064,612		\$	2,635,828	\$ 3,387,819	\$ 2,163,422	\$ 19,281,840
\$ 31,081,139 \$	-	\$ 35,696,606	\$ 38,608,746	\$ -	\$	25,037,076	\$ 32,180,060	\$ 20,549,816	\$ 183,153,443

Subtotal STPL STBO CMAQ-Mand.

851,910

NHPP STPS STPR STPF

CMAQ-Mand. \$ 1,512,321 \$ \$ 5,969,053 \$ - \$ - \$ 7,481,373 2017 Target \$ 31,081,139 \$ 2,364,231 \$ 35,696,606 \$ 38,608,746 \$ 25,605,495 \$ 25,037,076 \$ 32,180,060 \$ 20,549,816 \$ 211,123,169

19,636,443

20,488,353

ESTIMATION of OBLIGATION LIMITATION for FFY2017

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	CORE PROGRAMS																					
	National Highway Performance Program (NHPP)			Surface Transportion Program (STP)	Highway Safety Improvement Program (HSIP)			Rail-Highway Crossing Program	Congestion Mitigation & Air Quality (CMAQ)			Netropolitan Planning		ransportation Alternatives Program (TAP)	National Highway Freight Program (NHFP)			ite Planning & Research	Sec	tion 154 & 164 Penalties	F	CORE PROGRAMS TOTAL
2016 FHWA Revised APPORTIONMENT NOTICE							(*******					<u> </u>										
(dated January 8, 2016)	\$	221,696,226	\$	110,640,559	\$	22,678,742	\$	1,649,490	\$	11,621,169	\$	1,635,373	\$	-	\$	10,269,525	\$	-	\$	-	\$	380,191,084
*Section 164	\$	(5,679,579)	\$	(2,612,988)															\$	8,292,567		
*Transportation Alternatives Program (TAP)	\$	(2,069,140)	\$	(5,639,172)									\$	7,608,311		:						
*2% SPR	\$	(2,358,087)	\$	(4,275,967)	\$	(434,576)			\$	(232,072)					\$	(219,160)	\$	7,519,862	1			
Border State Infra, Set Aside			\$	(2,469,571)				•		•			·									
Subtotal	\$	211,589,420	\$	95,742,862	\$	22,244,167	\$	1,649,490	\$	11,389,097	\$	1,635,373	\$	7,608,311	\$	10,050,365	\$	7,519,862	\$	8,292,567	\$	377,721,513
NHPP Funds Exempt from Ob limit	\$	(6,343,464)																			\$	(6,343,464)
Border State Infra. Set Aside	•		\$	2,469,571																	\$	2,469,571
Rec Trails Set Aside													\$	(1,429,831)							\$	(1,429,831)
Subtotal	\$	205,245,956	\$	98,212,433	\$	22,244,167	\$	1,649,490	\$	11,389,097	\$	1,635,373	\$	6,178,480	\$	10,050,365	\$	7,519,862	\$	8,292,567	\$	372,417,789
Assumed Obligation Authority		94.9%		94.9%		94.9%		94.9%		94.9%		94.9%		94.9% .		94.9%		94.9%		94.9%		94.9%
Available Obligation Limitation	\$	194,778,412	\$	93,203,599	\$	21,109,714	\$	1,565,366	\$.	10,808,253	\$	1,551,969	\$	5,863,378	\$	9,537,796	\$	7,136,349	\$	7,869,646	\$	353,424,482

^{*} These set asides are increased by a formula and are subject to change as apportionment notices are released from FHWA.

ESTIMATION of OBLIGATION LIMITATION for FFY2017

CORE Program		lonel Highway mance Program (NHPP)	Surface Transportion Program (STP)										Highway Safety Improvement Program (HSIP)			Rall Highway Grade Crossing Program				estion Mitig Quali (CMA	letropolitan Plenning		Transp		ternativ AP)	ves Progran		Highway Freight Program (NHFP)	ght asm	Section 164 Penalty Transfer NHTSA	TOTAL					
Estimated Fed. Ob. Limit.	\$	194,778,412						\$93,20	3,599	99					\$21,109,714		\$1,565,			35,366		\$10,808,253			1,551,969	\$5,863,378							\$9,537,796	7,796	\$7,869,646	\$346,288,133
Funding Category	Г	NHPP		STPL.	ST	PS		STPR		STPF		STBO		SBS]	HSIP		RRS		RR9 RRP		CMÁQ - Flex.		CMAQ - Mand.	1	PL	TAPL	APL TAPS		PS TAPR			APF	NH		H164	-
Fed. Ob. Limit.	s	194,778,412	\$	18,297,043	5 18,0	39,933	\$ 1	1,865,384	\$ 3	9,803,629	\$	2,253,183	\$	2,344,427		\$21,109,714	-	\$782,683		\$782,683	\$ 4	,347,618	\$6,460,63	35	\$1,551,969	\$1,099,152	2 \$	1,119,751	s	712,786	\$ 2,	931,690	\$9,5	37,796	\$7,669,646	\$346,288,133
Debt Service	s	(82,872,509)	\$	(791,794)	s (3	77.956)	\$ (3	,919,967)	5 (1	,969,225			l					•				İ	\$ (68,549	9)												\$ (70,000,000)
STPL DS Taken directly from MRMPO on next																																				
page	l		5	791,794																			\$ 88,549	9					1							\$ 860,344
Penalty Transfer											ŀ			1											İ							İ			(\$7,869,646)	(\$7,869,646)
Adj, Fed, Ob. Limit	\$	131,905,903	s	18,297,043	S 18,3	261,977	s 7	,945,417	\$ 3	7.834,404	s	2,253,183	\$	2,344,427	\$	21,109,714	\$	782,683	\$	782,683	s 4	1,347,618	\$ 6,460,635	5 8	1,551,969	S 1,099,152	. 5	1,119,751	s	712,788	5 2,	,931,690	\$ 9,5	17,796		\$269,278,830
Federal Share	l	85,44%		B5.44%	85,	44%	8	5,44%	a	5.44%		80.00%		85.44%		90.00%		90.00%	9	0.00%	85	,44%	85.44%		85.44%	85.44%	<u> </u>	85,44%	_ E	95,44%	85	5,44%	85.4	4%	100.00%	
State / Local Ob, Limit,	П	14,58%		14,56%	14,	56%	1.	4.55%	1	4.56%	Т	20.00%	Π	14.56%		10.00%	1	10.00%	. 1	0,00%	14	.56%	14.56%		14.56%	14.56%		14,56%	1	14.56%	14	1.56%	14.5	5%	0.00%	
w/ Match	ş	154,384,250	\$	21,415,078	\$ 21,	374,037	5 9	,299,411	5 4	4,281,840	\$	2,816,479	\$	2,743,948	5	23,455,238	\$	869,648	\$	869,648	\$ 5	,088,604	\$ 7,561,604	4 \$	1,816,443	\$ 1,286,461	5	1,310,570	\$	834,253	\$ 3,	,431,285	S 11,1	63,151	5 -	\$314,001,844
Consultant Program	1								\$ (2)	0,000,000	,				\$						s		s	- 3	-											(\$20,000,000)
Suspense Bridge Maint	s	(8,000,000)			\$ (2.0	100,000)			s (5,000,000	,		İ																							(\$15,000,000)
Program Border State	5	(11.188,095)					ļ		s	•	5	(2,813,905)	1																							(\$14,000,000)
Infra. Set Aside HSIP Safety													\$ ((2,743,946)																						\$ (2,743,946)
Projects Progrem HSIP SW Price															\$ (12.955, 238)																				\$ (12.955,238)
Agreement															5	10,500,000)					}				j											\$ (10,500,000)
Program Reil Sefety															•	, o, oog, blody			١.	maa a:					1				1							
Projects Planning TAP		Ì															2	(869,648)	. \$	(869,648)				-	i	-							1			\$ (1.739,296)
Selection Sub-Allocated									1									•								£ (1.286,461)	/ * (1,310,570)	[(834,253)	E (3)	- 1				\$ (6,862,568)
Programs	١.	400 400 4			۔ ا	77 4 057	١.,		s	A 104 C		0 544	.		5		\$	-	١.		\$ (6	5,088,504)			(1,618,443)		۱.		. .		s		\$ (11,1	53,151)		\$ (18,068,098) \$212,132,699
Program	\$	135, 198, 155	\$	21,415,078	į \$ 19,	374,037	15 5	3,299,411	5 1	9,281,840	7 5	2,574	5	•	5	(0)) s	-	1.5	-	1.8	-	\$ 7,661,60	44 \$	-	7 -	- 5		-13	-	1,	-	1.			\$212,132,69

These estimates are based on the most current information available on the date this document was prepared. Amounts shown are susceptible to change based on project cost overruns, project close-out information, program audit information, revised federal spending estimates, federal rescissions and redistributions. Changes in one federal funding category, or in one NMDOT District, are likely to have subsequent effects to other program categories and to other districts.

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