SHOPPing for Assets

Presented by:

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California Department of Transportation
District 11 – San Diego

TRANSPORTATION RESEARCH BOARD

12th National Conference on Transportation Asset Management

San Diego, CA

2018

An Overview...

- Caltrans, the SHOPP, Asset Management, Strategic Management Plan
- Dealing with Change and Moving Targets
- New Roles/Responsibilities and Changing Faces, The Learning Curve
- Coordinating with Others
- Learning Asset/Data Management
- What has worked well and Room for Improvement
- Changes to the Plan and the need to be Flexible

District 11: Starting Points/References

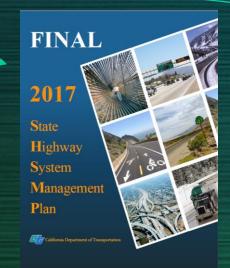


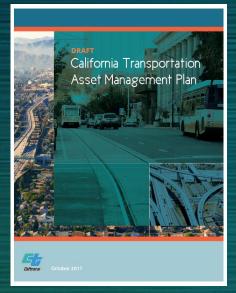












D-11 SHOPPing List

34 Objectives

> \$2.05 Billion Budget

					SHOPP	Perforn	nance l	Plan -	- Distric	t 11									
		Comment	Cur	rrent Conditi	ion				SHOPP In	nvestment P	lan				Project	ted Condition	2027	Poor %	6 2027
Objectives	Unit	Current Inventory / Need	Good	Fair	Poor	Pipelir	ned Projects	,	Remainir	ng Performai	nce		Sum		Good	Fair	Poor	District	State
		,,	Good	raii	FOOI	Fair	Poor	New	Fair	Poor	New	Fair	Poor	New	Good	raii	POOI	District	State
Safety																			
Bridge Rail Replacement and Upgrade	Linear Feet	945,635	606,372	324,340	14,923	7,168	7,311	-	0	837	-	7,168	8,148		621,688	317,172	6,775	0.7%	4.7%
Collision Severity Reduction	Injuries	4,827	-	-	4,827	-	47	-		349	-	-	396		396	-	4,431	91.8%	91.4%
Roadside Safety Improvements	Locations	2,263	-	-	2,263	-	433	-	-	609	-	-	1,042		1,042	-	1,221	54.0%	49.3%
Safety Improvements	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-
Stewardship																			
Bridge Health	SF	25,492,125	19,180,734	5,466,834	844,557	1,292,863	559,368	-	477,143	312,820	-	1,770,006	872,188		20,959,795	4,149,948	382,382	1.5%	1.5%
<u>Drainage Pump Plants</u>	Locations	5	4	1	0	0	0	-	0	0	-	0	0		3	2	0	0.0%	9.3%
<u>Drainage System Restoration</u>	Linear Feet	1,541,632	1,156,849	273,583	111,200	170	12,008	-	0	76,665	-	170	88,673		1,739,281	893,084	303,013	10.3%	10.6%
Lighting Rehabilitation	Each	6,574	3,476	2,852	246	0	0	-	0	437	-	0	437		3,291	1,974	1,309	19.9%	39.9%
Major Damage (Emergency Opening)	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
Major Damage (Permanent Restoration)	-	-	-	-	-	-	-	-			-	-	-		-	-	-	-	-
Office Buildings	SF	0	0	0	0	0	0	-	0	0	-	0	0	-	0	0	0	0.0%	25.9%
Overhead Sign Structures Rehabilitation	Each	2,228	1,719	483	26	0	0	-	0	70	-	0	70		1,481	537	210	9.4%	11.4%
Pavement Class I	Lane Miles	2,741	557	2,138	46	576	16	-	626	171	-	1,202	187		1,553	1,161	27	1.0%	1.0%
Pavement Class II	Lane Miles	1,041	242	767	32	82	5	-	133	247	-	215	252		493	527	21	2.0%	2.0%
Pavement Class III	Lane Miles	375	154	213	8	0	0	-	18	35	-	18	35		75	292	8	2.1%	2.0%
Relinquishments	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-
Roadway Protective Betterments	Locations	0	-	-	0	-	0	-	-	0	-	-	0	-	0	-	0	0.0%	71.4%
Safety Roadside Rest Area (SRRA) Rehabilitation	Locations	6	4	2	0	0	0	0	0	0	0	0	0	0	1	3	2	33.3%	51.2%
Transportation Related Facilities	SF	216,712	0	159,669	57,043	0	0	0	0	7,255	-	0	7,255	0	7,255	79,834	129,623	59.8%	65.1%
Water and Wastewater Treatment at SRRAs	Locations	1	1	0	0	0	0	-	0	0	-	0	0		0	1	0	0.0%	11.1%
Sustainability																			
ADA Pedestrian Infrastructure	Locations	12,567	-	-	12,567	-	463	-	-	257	-	-	720	-	720	-	11,847	94.3%	92.7%
Advance Mitigation	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-
Bridge Scour Mitigation	SF	1,798	-	-	1,798	-	1,798	-	-	0	-	-	1,798		1,798	-	18,883	91.3%	51.1%
Bridge Seismic Restoration	SF	319,268	-	-	319,268	-	96,391	-		18,828	-	-	115,219		115,219	-	365,692	76.0%	73.1%
Hazardous Waste Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
Roadside Rehabilitation	Acre	4,407	881	1,322	2,204	0	0	-	0	106	-	0	106		632	879	2,985	66.4%	59.4%
Storm Water Mitigation	Acre	1,760	-	-	1,760	-	111	-		336	-	-	447		447	-	1,313	74.6%	71.0%
Zero Emission Vehicle Infrastructure	Locations	2	-	-	2		0	-		2	-	-	2		2	-	0	0.0%	0.0%
Performance																			
Commercial Vehicle Enforcement Facilities	Stations	7	0	7	0	0	0	-	0	1	-	0	1		1	3	3	42.9%	31.5%
Operational Improvements	DVHD	90,000	-	-	90,000	-	612	-		1,258	-	-	1,870		1,870	-	88,130	97.9%	97.6%
Sign Panel Replacement	Each	6,878	0	0	6,878	0	1,963	-	0	885		0	2,848		2,848	0	4,030	58.6%	74.6%
Transportation Management Systems	Each	1,578	946	0	632	0	80	20	0	836	30	0	916	50	1,465	0	163	10.0%	10.0%
Bridge Goods Movement Upgrades	SF	25,492,126	22,438,945	1,365,864	1,687,317	0	0	-	0	0	-	0	0		22,438,945	1,365,864	1,687,317	6.6%	12.2%
Weigh-In-Motion Scales	Stations	21	0	21	0	1	0	0	0	4	0	1	4	0	5	9	7	33.3%	31.8%
						Investme	nt Plan Targ	et*	\$2,0	54,125,745									

(*) The Investment Plan Target includes the estimated SHOPP cost of the Remaining Performance AND additional funding for project-level cost anomalies, Complete Streets elements, etc.

District Performance Plan Rules and Key Takeaways

• New Terminology: Performance Management

• New Terminology: Targets, Anchors, Satellites



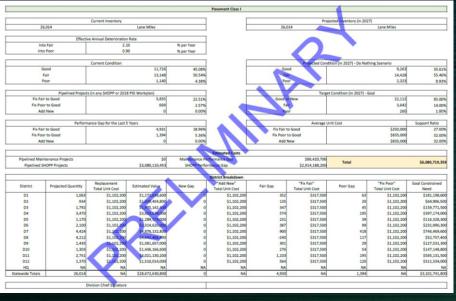
• Balanced Performance: \$/Year

Balanced Performance: Across objectives



• Other Considerations: Complete Streets/GHG reduction

References and Estimates...



District 11 - Performance "Shopping List"

4	OBJECTIVE	SMP Goal	PROGRAM	QTY	UNIT	UNIT PRICE	TOTAL	COMMENT
	Bridge Rail Replacement and Upgrade	SAFETY	Bridge	837	LF	\$1,925	\$1,611,225	Was 0 LF
	Collision Severity Reduction (Poor)	SAFETY	Safety	349	Injuries	\$155,400	\$54,234,600	Was 327
	Roadside Safety Improvements (Poor)	SAFETY	Roadside	609	Locations	\$68,870	\$41,941,830	
	Safety Improvements	SAFETY	Safety	-		\$0	\$0	
	Bridge Health (Fair)	STEWARDSHIP	Bridge	477,143	SF	\$344	\$164,137,192	Was ~67K
	Bridge Health (Poor)	STEWARDSHIP	Bridge	312,820	SF	\$483	\$151,092,060	Was ~41K
	Drainage Pump Plants	STEWARDSHIP	Drainage/Culverts	-	Locations	\$870,000	\$0	
	Drainage System Restoration (Poor)	STEWARDSHIP	Drainage/Culverts	76,665	Linear Feet	\$2,000	\$153,330,000	Was ~20K
	Lighting Rehabilitation	STEWARDSHIP	Safety	437	Each	\$12,600	\$5,506,200	Was 70
	Major Damage (Emergency Opening)	STEWARDSHIP	Major Damage	-		\$0	\$0	
	Major Damage (Permanent Restoratio	r STEWARDSHIP	Major Damage	-		\$0	\$0	
	Office Buildings	STEWARDSHIP	Facilities	-	SF	\$652	\$0	
	Overhead Sign Structures Rehabilitation	STEWARDSHIP	Safety	70	Each	\$192,000	\$13,440,000	Was 0, 14 ea
	Pavement Class I (Fair)	STEWARDSHIP	Pavement	626	Lane Miles	\$684,704	\$428,624,704	Was 95 / 149 LM
	Pavement Class I (Poor)	STEWARDSHIP	Pavement	171	Lane Miles	\$1,758,000	\$300,618,000	Was 68 / 42 LM
	Pavement Class II (Fair)	STEWARDSHIP	Pavement	133	Lane Miles	\$289,202	\$38,463,866	Was 7/43 LM
	Pavement Class II (Poor)	STEWARDSHIP	Pavement	247	Lane Miles	\$711,600	\$175,765,200	Was 25 / 58 LM
	Pavement Class III (Fair)	STEWARDSHIP	Pavement	18	Lane Miles	\$124,850	\$2,247,300	Was 4 / 28 LM
	Pavement Class III (Poor)	STEWARDSHIP	Pavement	35	Lane Miles	\$480,000	\$16,800,000	Was 11 / 8 LM
	Relinquishments	STEWARDSHIP	Pavement	-		\$0	\$0	
	Roadway Protective Betterments	STEWARDSHIP	Major Damage	-	Locations	\$4,980,000	\$0	
	Safety Roadside Rest Area (SRRA) Reha	STEWARDSHIP	Roadside	-	Locations	\$16,000,000	\$0	
	Transportation Related Facilities (Poor	STEWARDSHIP	Facilities	7,255	SF	\$801	\$5,811,255	Was 2738
	Water & Wastewater Treatment at SR	STEWARDSHIP	Roadside	-	Locations	\$2,922,416	\$0	

District 11: San Diego County

- Mexico, Orange County/Riverside
 County/Military bases
- Economy (Tourism, Trade, Military, Freight)
- Environment (Storm
 intensity/durations, GHG reductions,
 Sea level rise)
- Active Transportation (Sandag, GHG Goals)
- ITS (Autonomous vehicles,
 Transportation Systems Management
 Organization TSMO)



District 11: Imperial County

- Borders with Arizona/Mexico
- Agriculture, trade, freight
- Environment (Extreme Heat, air quality/GHG reduction, vulnerable population)
- Active Transportation (Ivag resources, facilities near border, traffic calming opportunities, vulnerable population)



D-11 SHOPP Organization and the need to change...

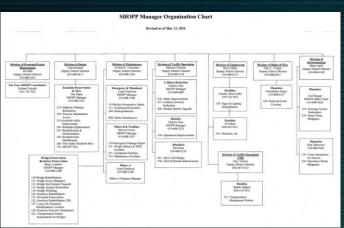
- No more codes

From 40+ Programs to 34 Objectives

New Roles and Responsibilities

- Buy in from Management

- Culture change





The SHOPP Nomination Team.....and New members

D-11 Program	Performance Objectives
Advisor	Cafaby
Bruse Lambert / Emilto	Safety Prides Pail Poplacement and Harrado (201 112 - Linear Foot)
Bruce Lambert / Emi Ito	Bridge Rail Replacement and Upgrade (201.112 - Linear Feet)
Jose Robles	Collision Severity Reduction (201.015 - Injuries)
Tim Mann	Roadside Safety Improvements (201.235 - Locations)
Jose Robles	Safety Improvements (201.010)
Duran Laurhaut / Euri Ita	Stewardship
Bruce Lambert / Emi Ito	Bridge Health (201.110/119 - SF)
Harwell Ontoy	Drainage Pump Plants (201.151 - Locations)
Carl Savage	Drainage System Restoration (201.151 - Linear Feet)
Jose Robles	Lighting Rehabilitation (201.170 - Each)
Harwell Ontoy	Major Damage (Emergency Opening) (201.130)
Harwell Ontoy	Major Damage (Permanent Restoration) (201.131)
Harwell Ontoy / Alex Garcia	Office Buildings (201.351 - SF)
Jose Robles	Overhead Sign Structures Rehabilitation (201.170 - Each)
Bruce Lambert / Emi Ito	Pavement Class I (120/121/122 - Lane Miles)
Bruce Lambert / Emi Ito	Pavement Class II (120/121/122 - Lane Miles)
Bruce Lambert / Emi Ito	Pavement Class III (201.121 - Lane Miles)
Bruce Lambert / Emi Ito	Relinquishments (201.160 - Center Line Miles)
Harwell Ontoy	Roadway Protective Betterments (201.150 - Locations)
Tim Mann	Safety Roadside Rest Area (SRRA) Rehabilitation (201.250 - Locations)
Harwell Ontoy / Alex Garcia	Transportation Related Facilities (252/253/254 - SF)
Tim Mann	Water and Wastewater Treatment at SRRAs (- Locations)
	Sustainability
Tan Doan / Jason Janis	ADA Pedestrian Infrastructure (201.361/378 - Locations)
Kim Smith (??)	Advance Mitigation (201.240)
Bruce Lambert / Emi Ito	Bridge Scour Mitigation (201.111 - SF)
Bruce Lambert / Emi Ito	Bridge Seismic Restoration (201.113 - SF)
Ken Johansson	Hazardous Waste Mitigation (201.330)
Tim Mann	Roadside Rehabilitation (201.235 - Acre)
Carl Savage	Storm Water Mitigation (201.335 - Acre)
Paul Hsu	Zero Emission Vehicle Infrastructure (- Locations)
	Performance
Harwell Ontoy / Alex Garcia	Commercial Vehicle Enforcement Facilities (201.321 - Stations)
Shanaz Alvi / Sam Amen	Operational Improvements (201.310 - DVHD)
Jose Robles	Sign Panel Replacement (201.170 - Each)
Sam Amen	Transportation Management Systems (201.315 - Each)
Bruce Lambert / Emi Ito	Bridge Goods Movement Upgrades ()
Harwell Ontoy / Alex Garcia	Weigh-In-Motion Scales (201.321 - Stations)

- Corridor Managers
- Construction
- Planning
- Bike/Ped Coordinator
- ADA Coordinator
- Environmental
- RW

D-11 SHOPP Reorganization

Establishes new District Business Practices

- 3 Key Changes
 - ✓ Program Managers to Asset Manager Roles
 - ✓ PID development to Corridor Managers
 - ✓ SHOPP Steering Committee

California Department of Transportation - District 11

Making Conservation a California Way of Life.

Project Delivery
Business Practice

Number:

DD-03-18

DP-35

Refer to:

Director's Policy:

Refer to

Effective Date:

April 2, 2018

Supersedes:

NEW

TITLE

District 11 Asset Management Reorganization

BACKGROUND

Senate Bill 486 (SB 486) requires that Caltrans invest State Highway Operation and Protection Program (SHOPP) funds in accordance with the approved Transportation Asset Management Plan (TAMP). As a result, the SHOPP has transitioned to performance driven asset management. In 2016, the California Transportation Commission (CTC) approved four primary asset classes (also referred to as core or anchor assets) for the first phase of this transition period: pavement, bridge, culverts and transportation management systems (TMS) for the development of the SHOPP.

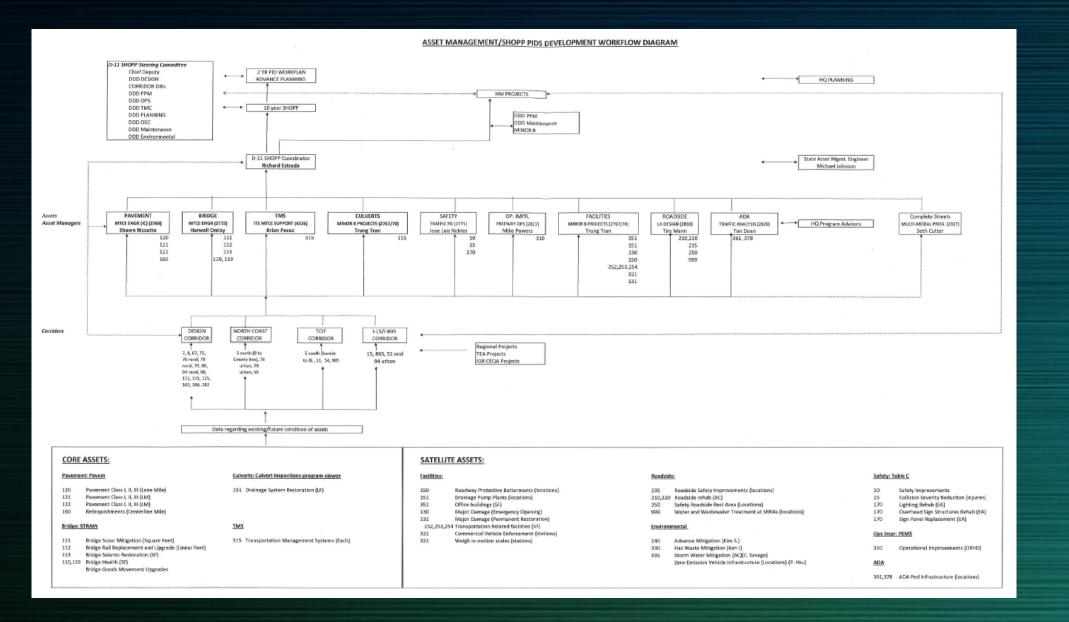
The core asset classes of pavement, bridge, culvert and TMS have the following specific ten-year performance targets established in Senate Bill-1 and the TAMP to ensure accountability for the use of SHOPP funding.

- Pavement Not less than 98 percent of pavement to be in good or fair condition by 2027
- · Pavement Achieve a pavement pothole and cracking Level of Service of 90 percent or higher by 2027
- Bridges Not less than 98.5 percent of bridge area to be in good or fair condition by 2027
- · Bridges Fix not less than an additional 500 bridges by 2027
- Culverts Not less than 90 percent of culvert length to be in good or fair condition by 2027
- TMS Elements Not less than 90 percent of TMS element to be in good condition by 2027

The funding allocation methodology has changed from the past to provide greater flexibility to combine various assets into a single project, effectively breaking down the historic silo-based funding approach. This funding change facilitates multi-objective corridor type projects that are expected to be more efficient to deliver and less disruptive to the traveling public.

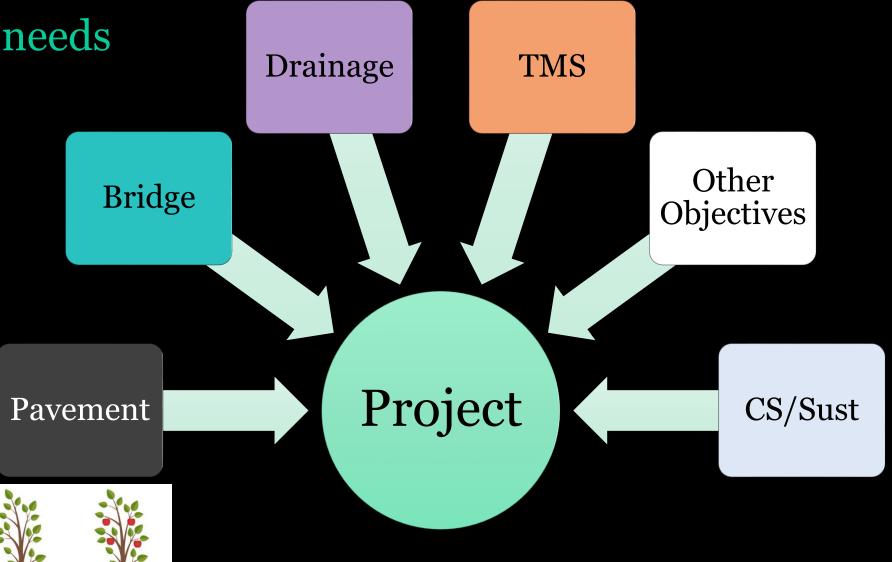
[&]quot;Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

D-11 SHOPP Reorganization Workflow Diagram



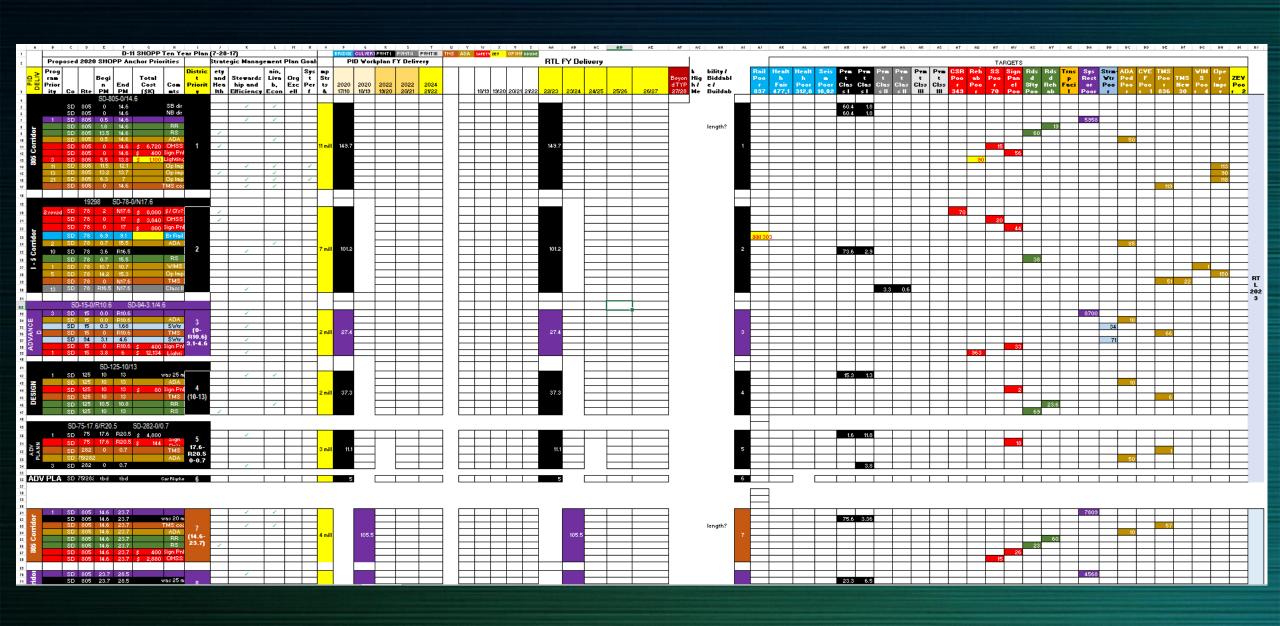
Nominating the needs

- Started with Anchor needs
- Satellite Objectives
- Complete Streets, Sustainability
- Pruning the tree





D-11 Project List (Excel vs. Access?)



The SHOPP Tool and Tracking Performance

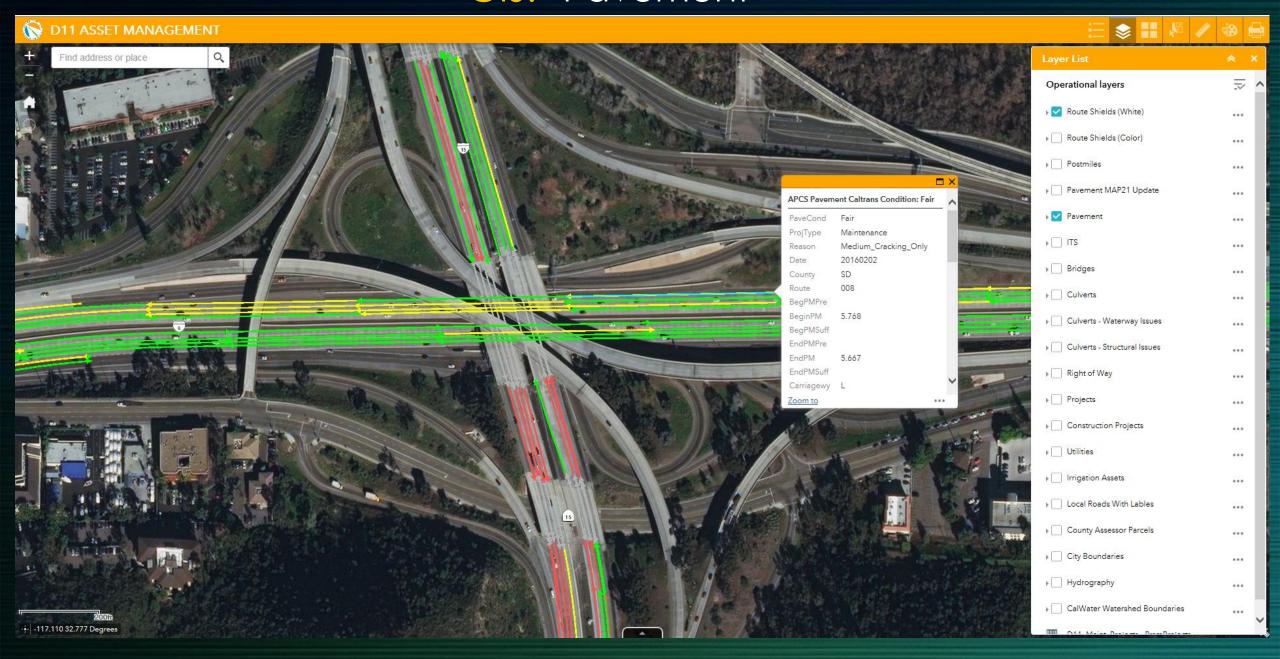
SHOPP Asset Management Tool
Home SHOPP Contacts Map SHOPP Tool Instructions Tool Team Presentations Q&A Login
75 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TEN YEAR PLAN PROJECT NOMINATION (Pre-PID) Project Book: ☐ Q3 2018 ☐ 06/27/18 View Activity Detail/Performance Report Project Rook: ☐ Data Project Rook:
District Priority 1 ID 19044 EA 43023 EFIS Project ID 1118000029 PPNO 1311 TYP 2017
District 11 County SD Route 805 BackPM 0.149 AheadPM 14.6 Additional Location
Activity Category Pavement Activity/Project Location In San Diego County, in San Diego, Chula Vista, and National City, from 0.3 mile south of Route 805/15 Separation to Route 805/15 Separation.
Projected RTL FY 2022/23 HQ Program Manager Concurrence TYP
TEN YEAR PLAN COST
R/W Cap (\$K) 500.0 Const Cap (\$K) 142000.0 Support Cost (\$K) 45000.0 Total Cost (\$K) 187500.0
PID WORKPLAN INFORMATION (Pre-PID)
EA 43023 ProjID 1118000029 PID Cycle 2020 PID Type PIR Projected SHOPP Cycle 2020
Resourced PID Workplan 10/11/17 PID Start Date 09/05/17 PID Finish Date 06/29/18 Project Manager Ramon Martinez
Comments
Comments
PROGRAMMING NOMINATION (Post-PID)
Update - Accomp/Perf HQ Program Manager Concurrence Prg
County SD Route 805 BackPM 0.149 AheadPM 14.6 Dist Dir Appr
SHOPP Amendment Date
Activity/Project In San Diego County, in San Diego, Chula Vista, and National City, from 0.3 mile south of Route 805/5 Separation to Route 805/15 Separation.
Requested SHOPP Cycle PPNO 1311 Requested RTL Fiscal Year
PARED Cost (\$K) PS&E Cost (\$K) R/W Cost (\$K) CONS Cost (\$K)
Total Support Cost (\$K) R/W Cap (\$K) Const Cap (\$K) Total Cost (\$K) 0.0
POST PROGRAMMING (PCR)
SHOPP Tool ID 19044 EA 43023 EFIS Project ID 1118000029 PPNO 1311 SHOPP Amendment Date
Update - Accomp/Perf Exec PCR Approval Date Split/Combine Cross Ref EFIS ID#
PCR SHOPP Cycle County SD Route 805 BackPM 0.149 AheadPM 14.6

			C.	LODD Duri			Deufermen		B						
D:	SHOPP Project - Accomplishment - Performance Measures - Benefits District: 11 Tool ID: 19044 V Project ID: 1118000029 V EA: 43023 V Co-Rte-PM: SD-805-0.149/14.6 (Primary Location) V View/Print PIR (Performance) Report														
	District: 11 Tool ID: 19044 Project ID: 1118000029 EA: 43023 Co-Rte-PM: SD-805-0.149/14.6 (Primary Location) View/Print PIR (Performance) Report es In PID WP: 10/11/17 Project Manger: Ramon Martinez HQ PM Conc PID: 10/10/17														
ı	Bridge	✓ Pavement	✓ Drainage	Facilities	✓ Safety	✓ Mobility	✓ Roadside	✓ Complete	✓ Sustainability			Other	Ma	ijor	Green-
ш	Dridge	Tavement	Dramage	radinacs				Streets	/Climate Change	Mitigation	1	Other	Damag	je	house Gases
L	Performance & Accomplishments (PRG ✓)														
	Activity Detail					Pe	rformance Objecti	ve	Unit of Measurement	Quantity	Assets in Good Cond	Assets in Fair Cond	Assets in Poor Cond	New Asset Added	Comment
- 1			ment Rehabilitation tc} (201.122, 120)			Pavement Class I			lane-miles	132.6	5.4	123.6	3.6		FY23 SE=31.0, RE=21.2
2	Replace/Insta	II Culverts (201.151	1)			Drainage System F	Restoration		EA D	41.0					
3	Replace Insta	II/Culverts (201.151	1)			Drainage System F	Restoration		LF	5726.0			5726.0		
4	Overhead Sig	n Structures Rehab	pilitation (201.170)			Overhead Sign Str	ructures Rehabilitati	on	EA	15.0			15.0		Unit of measure = ea
5	Sign Panel re	placement				Sign Panel Replac	ement		EA	56.0			56.0		
6	6 Vehicle detection (201.315)					Transportation Management Systems			EA	119.0			119.0		
7	ADA - Repair/upgrade curb ramp (201.361)				ADA Pedestrian Infrastructure			EA	50.0			50.0			
8	8 DVHD Reduced (201.310)			Operational Improv	vements		DVHD	321.0			321.0				
9	9 Planting (Irrigated) (201.210, .220)				Roadside Rehabili	tation		Acres	19.0			19.0			
10	Worker Safety	/ - Miscellaneous F	acilities and Equipn	nent (201.235)		Roadside Safety Improvements			Location	60.0			60.0		
11	Bus Bay / turn	out / Pull out*** (20	01.999)			No Performance Objective in the SHSMP			EA	4.0					
12	Class I Bike P	aths (201.999)				No Performance C	bjective in the SHS	MP	Linear Miles	4.0					
13	Class II Bike L	ane (201.999)				No Performance C	bjective in the SHS	MP	Linear Miles	2.0					
14	Class III Bike	Routes (201.999)				No Performance C	bjective in the SHS	MP	Linear Miles	1.0					
15	Conflict zone	green paint (201.99	99)			No Performance C	bjective in the SHS	MP	EA	4.0					
16	Crosswalks (2	201.999)				No Performance C	bjective in the SHS	MP	EA	10.0					
17	Overpass/Und	derpass - Pedestria	n & Bike (201.999)			No Performance O	bjective in the SHS	MP	EA	1.0					
18	Park and Ride	Lots (201.999)				No Performance O	bjective in the SHS	MP	EA	1.0					
19	Install Shade for Pedestrian access (201.999)				No Performance O	bjective in the SHS	MP	EA	10.0						
20	Transit Stop Improvements (201.999)				No Performance Objective in the SHSMP			EA	10.0						
21	Is any location	within the project	limits Ped/Bike aco	essible?		No Performance Objective in the SHSMP			Yes/No						Yes
22	Install solar sh	Install solar shade panel (not counted above) (201.999)				No Performance Objective in the SHSMP			EA	2.0			2.0		
23	Install LED Lig	Install LED Lighting (not counted above) (201.999)				No Performance Objective in the SHSMP			EA	10.0			10.0		
24	Use of locally	available building r	materials						Linear Miles	0.5			0.5		

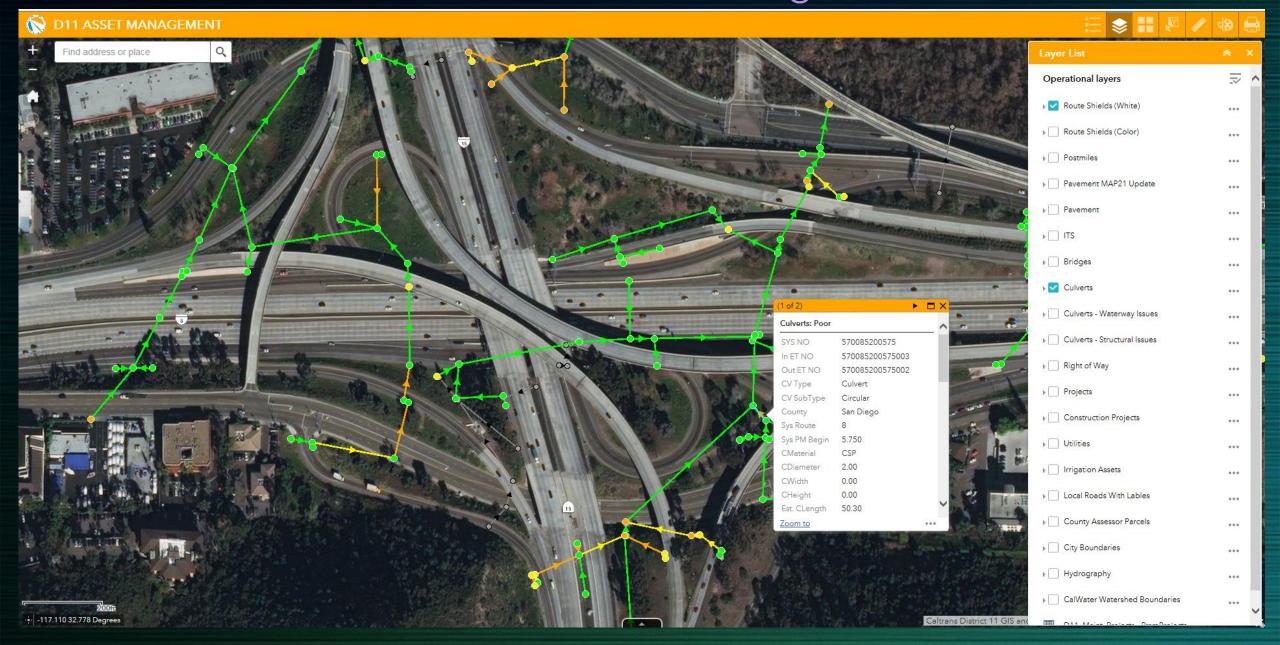
SHOPP Tool: Performance Objective Report

Performance Objectives							District	11 Remaini	ng Perf	formance	Summai	ry (TYP:201	17, PID Cycl	e:2020+)											
Performance objectives	Totals		2017	//18	2018/1	9	201	.9/20	П	2020/21		202	1/22	202	22/23	Т	2023/24	1	2	024/25	-	202	5/26	2026/	/27
Target Funding Allocation (\$K)		\$2,054,12	5	\$2,054,126	\$2,	054,126		\$2,054,126	5	\$2,0	54,126		\$2,054,12	26	\$2,054,12	6	\$1,9	50,626		\$1,66	55,286		\$1,455,316	5 \$	1,259,816
District 2017 TYP Submitted Project Cost																								I	
(\$K)		\$2,051,64	0	<u>\$0</u>		\$0		<u>\$0</u>)		\$0		<u>s</u>	0	\$421,00	0	<u>\$4</u>	149,640		\$40	03,040		\$336,460	<u>)</u>	\$441,500
Target Funding Balance (\$K)		\$2,48	5	\$2,054,126	\$2,	054,126		\$2,054,126	5	\$2,0	54,126		\$2,054,12	26	\$1,633,12	6	\$1,1	183,486		\$78	30,446		\$443,986	5	\$2,486
HQ Concurrence - 2017 TYP Submitted																								1	
Project Cost (\$K)		\$1,038,81	0	<u>\$0</u>		\$0		<u>\$0</u>)		<u>\$0</u>		<u>\$</u>	0	\$103,50	0	<u>\$2</u>	85,340		\$20	09,970		\$195,500	<u>)</u>	\$244,500
Project Cost Submitted - No Concurrence																1								1	
(\$K)		\$1,012,83	0	\$0		\$0		\$0)		<u>\$0</u>		\$	0	\$317,50	0		164,300			93,070		\$140,960		\$197,000
Safety	New	Fair Poor	New Fair	Poor	New Fair	Poor	New Fa	ir Poor	New	Fair	Poor	New Fa	ir Poor	New Fa	ir Poor	New	Fair	Poor	New	Fair	Poor N	ew Fai	ir Poor	New Fair	Poor
Bridge Rail Replacement and Upgrade	o	0 83	7 0	0 837	o o	837	0	0 837	0	0	837	0	0 83	37 O	0 83	7 0	0	837	0	0	837	0	0 837	7 0	0 837
(201.112 - Linear Feet)				-						_									_			_			
Performance Objectives submitted	0	0 1,02	7 0	0 0	0 0	<u>0</u>	0	<u>0</u> <u>C</u>	0	0	<u>0</u>	0	0	0 0	0 30	3 0	<u>0</u>	<u>0</u>	0	0	<u>0</u>	0	0 0	<u>)</u> 0	0 724
District Performance Objectives Balance	0	0 -190	0	0 837	0 0	837	0	0 837	, ,	0	837	0	0 83	37 0	0 53	4 0	0	534	0	0	534	0	0 534	4 0	0 -190
ce - Bridge Rail Replacement and Upgrade	0	0	0 0	0 0	0 0	0	0	0 0	0	0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0 /	0 0	0 0
ce Objective Submitted - No Concurrence	0	0 1,02	7 0	0 0	0 0	0	0	0 0	0	0	0	0	0	0 0	0 30	3 0	0	0	0	0	0	0	0	0	0 724
Collision Severity Reduction (201.015 -																							$\overline{}$	1 	
Injuries)	0	0 34	9 0	0 349	0 0	349	0	0 349	0	0	349	0	0 34	19 0	0 34	9 0	0	349	0	0	254	0	0 184	1 0	0 184
Performance Objectives submitted	<u>0</u>	0 39	<u>0</u>	<u>0</u>	<u>o</u> <u>o</u>	<u>0</u>	<u>0</u>	<u>o</u> <u>c</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>o</u> <u>o</u>	0 7	<u>0</u>	<u>0</u>	<u>95</u>	<u>0</u>	<u>0</u>	226	<u>0</u>	0 (<u>o</u>	0 0
District Performance Objectives Balance	0	0 -4:	2 0	0 349	0 0	349	0	0 349	0	0	349	0	0 34	19 0	0 27	9 0	0	184	0	0	-42	0	0 -47	2 0	0 -42
oncurrence - Collision Severity Reduction	<u>0</u>	0 16	<u>0</u>	<u>0</u>	0 0	0	0	<u>o</u> <u>c</u>	0	<u>0</u>	<u>0</u>	0	0	0 0	0	<u>0</u>	<u>0</u>	<u>95</u>	<u>0</u>	0	<u>70</u>	0	0 9	<u> 0</u>	0 0
ce Objective Submitted - No Concurrence	<u>0</u>	0 22	<u>0</u>	0 0	0 0	<u>0</u>	0	0 0	0	0	<u>0</u>	0	0	0 0	0 7	<u>0</u>	<u>0</u>	0	0	<u>0</u>	<u>156</u>	0	0 (2 0	0 0
Roadside Safety Improvements	0	0 60	0	0 609	ا ا	609	0	0 609		0	609	0	0 60	19 0	0 60	0	0	540	0	0	299	0	0 212	2 0	0 212
(201.235 - Locations)	J			003	, , , , , , , , , , , , , , , , , , ,	003		000	Ĭ	Ĭ	003		-	, J											
Performance Objectives submitted	<u>0</u>	<u>0</u> <u>63</u> :	1 0	0 0	0 0	0	0	0 0	0	<u>0</u>	<u>0</u>	0	0	0 0	0 16	<u> 0</u>	<u>0</u>	<u>281</u>	0	0	131	0	0 9	2 0	<u>0</u> <u>52</u>
District Performance Objectives Balance		0 -2		0 609		609		0 609		0	609	0	0 60	0	0 44	2 0	0	161		0	30	0	0 30		0 -22
currence - Roadside Safety Improvements	0	0 39	7 0	0 003	0 0	003	0	0 003	0	0	003	0	0 00	0 0	0 44	9 0	0	241	0	0	87	0	0 30	0	0 -22
ce Objective Submitted - No Concurrence	0	0 23	4 0	0 0	0 0	0	0	0 0	0	0	0	0	0	0 0	0 9	8 0	0	40	0	0	44	0	0 0	0 0	0 52
	<u> </u>	0 20	<u> </u>	0 0	9 9		2	0 0	<u>.</u> ⊃	2		<u> </u>	<u> </u>	0 0	0 2	9 9	<u> </u>	<u>+0</u>		<u> </u>		<u> </u>	<u> </u>		0 0
Safety Improvements (201.010) Performance Objectives submitted	0	0	0 0	0 0	0 0	0	0	0 0	0	0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0 0	0	0 0
Performance Objectives submitted	<u>U</u>	<u>U</u> !	2 0	0 0	<u> </u>	<u>U</u>	ū	<u>U</u> <u>U</u>		ū	<u>U</u>	<u>u</u>	U	0 0	<u>u</u> !	<u> </u>	ū	<u>U</u>	ū	ū	<u>U</u>	ū	<u>u</u> <u>u</u>	2 9	<u>u</u> <u>u</u>
District Performance Objectives Balance	0	0	0	0 0	0 0	0	0	0 0	0	0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0 (0 0	0 0
HQ Concurrence - Safety Improvements	0	0	0 0	0 0	0 0	0	0	0 0	0	0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0 /	0 0	0 0
ce Objective Submitted - No Concurrence		0	0 0	0 0	0 0	0	0	0 0	0	0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0 (<u>o</u>	0 0
Stewardship	New	Fair Poor	New Fair	Poor	New Fair	Poor	New Fa	ir Poor	New	Fair	Poor	New Fa	ir Poor	New Fa	ir Poor	New	Fair	Poor	New	Fair	Poor N	ew Fai	r Poor	New Fair	Poor
Bridge Health (201.110/119 - SF)	0 /	********	0 #####	*** ********	0 #######	*********	0 ####	**** ********	0	**********	*************	0 ####	**** *******	# 0 ###	***** ********	# 0 #		***********	0 ##	******* #*	********	0 #####	**** ********	# 0 ######	*** *********
Performance Objectives submitted	0 /		0	0 0	0 0	0	0	0 0	0	<u>0</u>	0	0	0	0 0	0	0 0	<u>0</u>	0	0	0	9,526	0	0 ######	# 0 <u>######</u>	
Dietrict Borformanco Objectives Palance		פרפ פרפ	- A		A ########		0 ####					0 ####												פר כ ח	2 2 2 2 2

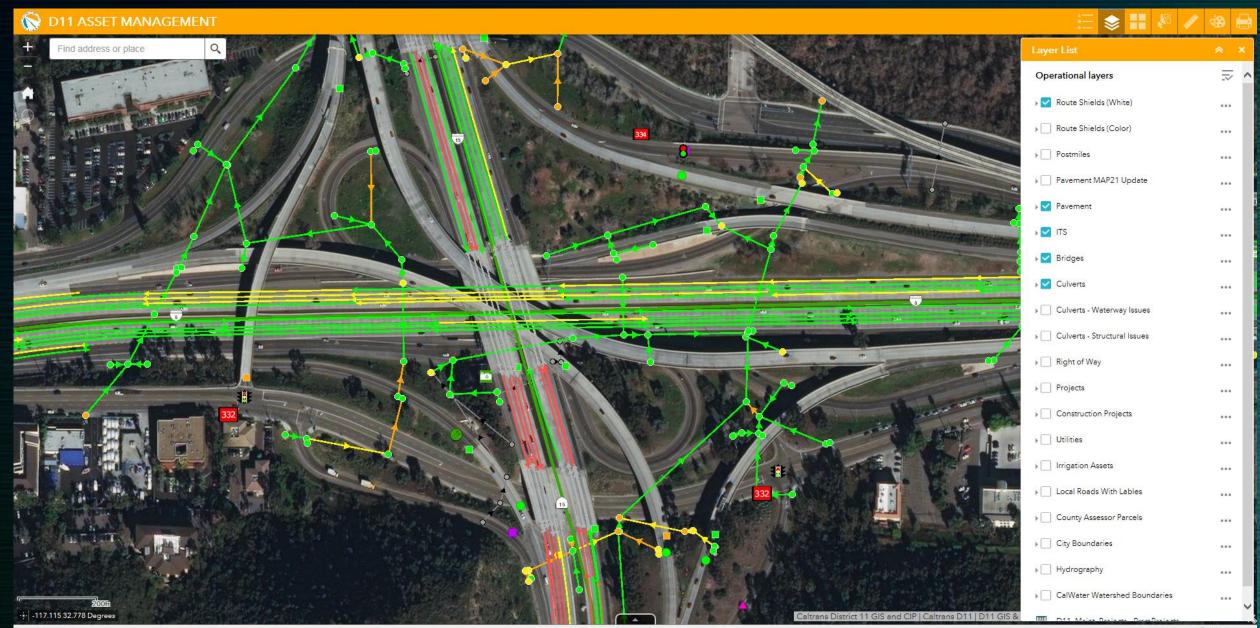
GIS: Pavement



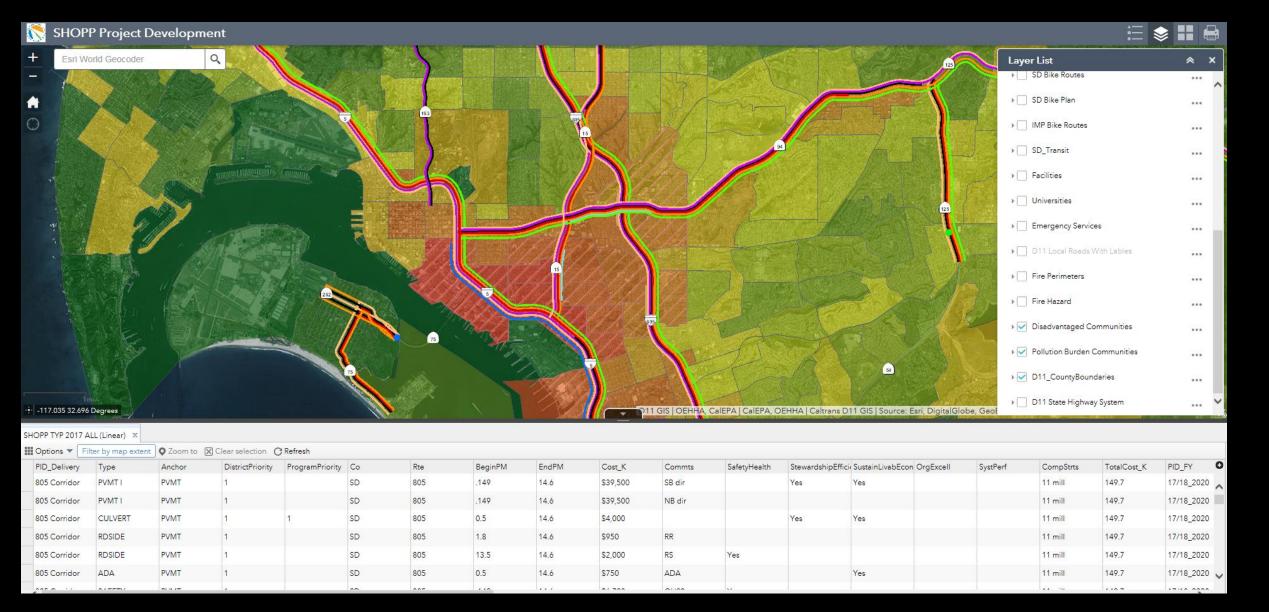
GIS: Culverts-Drainage



Identifying project scope/limits



Disadvantaged, Pollution Burdened Communities, Fires, others



Coordination with Locals

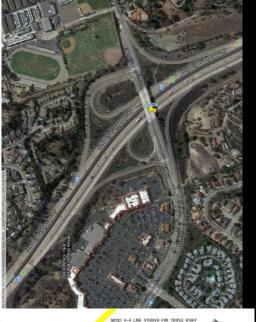
California Office of Traffic Safety Grant

Traffic Engineer/Traffic Enforcement Expert

Only recommendations

Provides: Short-Mid-Long Term







University of California, Berkeley • Institute of Transportation Studies • Technology Transfer Program



PS1724

CITY OF CHULA VISTA COMPLETE STREETS SAFETY ASSESSMENT



Assessment Team: Engineering: Nazir Lalani, P.E. Enforcement: Dennis Smith

August 2017

This report was produced in cooperation with the City of Chula Vista. Funding for this program was provided by a grant from the California Office of Traffic Safety, through the National Highway Traffic Safety Administration. Opinions, findings, and conclusions are those of the authors and not necessarily those of the University of California and/or the agencies supporting or contributing to this report.

University of California, Berkeley, 109 McLaughlin Hall, Berkeley, CA 94720-1720 www.techtransfer.berkeley.edu



CALTRANS
District 11 San Diego



SB1 PARTNERSHIP FORUM

REBUILDING CALIFORNIA

September 11, 2017, 10:30 A.M. - 3 P.M.

Caltrans District 11, 4050 Taylor Street, San Diego, CA 92110

Discuss the key challenges in delivering transportation improvements and how to work together to address issues such as:

- Workforce
- Project coordination
- Permits and resource agencies
- Suppliers and materials
- Utility coordination

Through discussion and breakout sessions we will examine these and other common issues and begin to develop approaches to enable effective delivery of transportation improvements.

RSVP by September 7 via email to michael.hank@dot.ca.gov (please limit to two persons per agency attending) Contact: Michael Hank (619) 682-7234





SB-1 Forum

Second Forum scheduled

for January 2018

Caltrans District 11 SHOPP Ten Year Plan - 2017

State Highway Operation and Protection Program (SHOPP)

State Highway Operation and Protection Program (SHOPP) is the State's "fix-it-first" program that funds the repair and preservation of the State Highway System (SH5), safety improvements, and some highway operational improvements.

By continuously repairing and modernizing the SHs. the SH-OPP protects the enormous investment that has been made over many decades to create and manage the approximately 50,000 lane-mile SHS. The SHS includes State owned roadways, highways and bridges (including associated bicycle and pedestrian infrastructure) and their supporting infrastructure such as culverts, intelligent Transportation Systems (TIS) roaddles safety rest areas, and maintenance stations.

The SHOPP also funds mandated project categories such as retrofitting existing SHS facilities to comply with the Americans with Disabilities Act (ADA) and storm water control requirements.

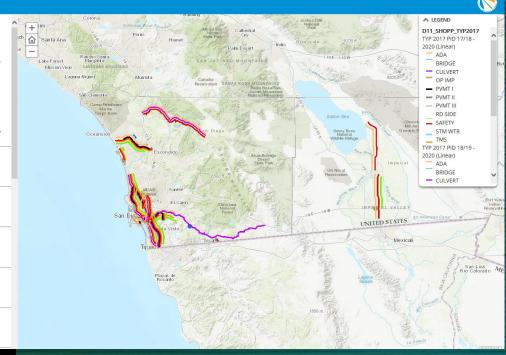
Project I-805 PM .1-14.6

Project SR-78 PM 0-N17.6

Project I-15 PM 0-R10.6 and SR 94 PM 3.1-4.6

Project SR-125 PM 10-13

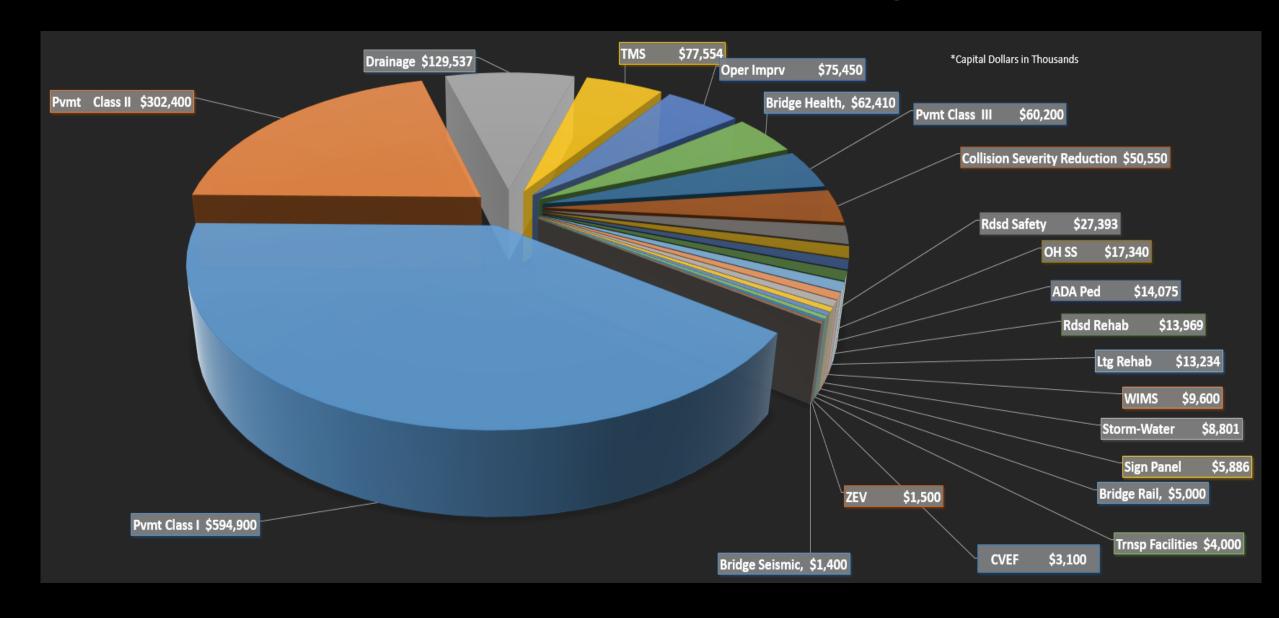
Project SR-75 PM 17.6-R20.5 and SR-282 PM 0-.697



District 11 - Performance Objective Report

1	Performance Objectives	
2		Totals
3	Target Funding Allocation (\$K)	\$2,054,126
	District 2017 TYP Submitted Project Cost	
4	(\$K)	<u>\$2,051,640</u>
5	Target Funding Balance (\$K)	\$2,486
	HQ Concurrence - 2017 TYP Submitted	
6	Project Cost (\$K)	\$1,038,810
	Project Cost Submitted - No Concurrence	
7	(\$K)	<u>\$1,012,830</u>

District Performance Plan \$2.05 Billion



Asset Management Financial Fact Sheet

Attachment A - District 11 Asset Management Financial Fact Sheet - 2018 Qtr.3

5 Year Financial Assessment - Portfolio Balance

5-Year Financial Assessment - Balanced Annual Budget (\$K)							
Fiscal Year	Ten-Year Target Funding	Annual Target Funding	Project Costs	Within 20% (+/-5%) Annual Target Funding?	Balance		
2022/23	\$2,054,126	\$410,825	\$407,000	YES	\$3,825		
2023/24	\$2,054,126	\$410,825	\$498,422	YES	-\$87,597		
2024/25	\$2,054,126	\$410,825	\$360,420	YES	\$50,405		
2025/26	\$2,054,126	\$410,825	\$357,183	YES	\$53,642		
2026/27	\$2,054,126	\$410,825	\$406,300	YES	\$4,525		

	5-Year Financial Assessment - Total 5-Year Budget (\$K)									
All Years	\$2,054,126	\$410,825	\$2,029,325	YES	\$24,801					





40.1/	Constitution and		Outroute.
10 Year	Funding and	Performance	Criteria

	Years 1-5 (Programmed)	Years 6-10 (Planned)
Funding Constraint	Sum of project costs to date, including PCRs, for projects with RTL in years 1- 5 from the 2016 and 2018 SHOPP	5 Year Investment Plan Target from the 2017 District Performance Plan
Performance Constraint	Maintain the performance originally put forth in the 2016 and 2018 SHOPP.	2017 SHSMP Target Objectives, reflected in the Performance Objectives Report (POR) in the SHOPP Tool

unding and Performance Criteria - Last Five Years

Funding Criteria	
5 Year Funding Constraint	Total funding for the District's proposed project portfolio must not exceed the Target Funding, representing the last 5 years of the 10 Year Plan as reported in the POR. Project change requests will not be considered further until this constraint is met.
Annual Funding Constraint	The annual funding constraint is set as 20% of the District's total 5 year Target Funding with year-by-year variation of +/-5%. The net change in funding due to requested changes in projects in a given year shall not exceed the 25% upper limit for the projects planned within that year.
Performance Criteria	
	Districts must meet or exceed all performance targets over the last 5 year period as reported in the POR. Project change requests will not be considered further until this constraint is met. This constraint must be met with real project accomplishments.

Asset Management Performance Fact Sheet

Attachment B - District 11 Asset Management Performance Fact Sheet - 2018 Qtr.3

District 11								_			
District 11 2017 Ten-Year Book		Meeting Performance?			Performance Gap			Performance Gap (%)			
Performance objective	Unit of Measurement	New	Fair	Poor	New	Fair	Poor	New	Fair	Poor	
Primary Asset Classes											
Pavement Class I	LM	Yes	Y	es	0		-91	-	-1	15%	
Pavement Class II	LM	Yes	Y	es	0		-68	-	-5	51%	
Pavement Class III	LM	Yes	Y	es	0		-15		-8	34%	
Bridge Health	SF	Yes	Yes	No	0	-306,926	79,954	-	-64%	26%	
Transportation		Mari	Week	Wasa				200/		400/	
Management Systems Drainage System	EA	Yes	Yes	Yes	-10	0	-149	-33%	•	-18%	
Restoration	LF	Yes	Yes	Yes	0	-1,381	-24	-	-	0%	
Supplementary Asset Class	es										
Drainage Pump Plants	EA	Yes	Yes	Yes	0	0	0				
Lighting Rehabilitation	EA	Yes	Yes	Yes	0	0	-526	-:-	-:-	-120%	
	SF				0	0	0				
Office Buildings	SF.	Yes	Yes	Yes	0	U	U	-		•	
Overhead Sign Structures		Yes	Yes	Yes	0	0	0	-		0%	
Rehabilitation	EA										
Roadside Safety		Yes	Yes	Yes	0	0	-22			-4%	
Improvements	Location	103								4,0	
ADA Pedestrian		Yes	Yes	Yes	0	0	-364			-142%	
Infrastructure	EA	Yes	Yes	Yes	0	0	-364	-	•	-142%	
Transportation Related						_					
Facilities	SF	Yes	Yes	Yes	0	0	-40	-	-	-1%	
Weigh-In-Motion Scales	EA	Yes	Yes	Yes	0	0	0		-	0%	
Other SHSMP Objectives		103	103	103						0,0	
Bridge Scour Mitigation	SF	Yes	Yes	Yes	0	0	0		-		
bridge Scour Mitigation	SF.	res	res	162	U		U	-			
Bridge Seismic Restoration	SF	Yes	Yes	Yes	0	0	-116	-	-	-1%	
Bridge Rail Replacement		Yes	Yes	Yes	0	0	-4.559			FAFO	
and Upgrade	LF	Yes	Yes	Yes	0	0	-4,559	-	•	-545%	
Bridge Goods Movement											
Upgrades	SF	Yes	Yes	Yes	0	0	0	-	-	-	
Collision Severity	J.										
Reduction	Injuries	Yes	Yes	Yes	0	0	-42	-		-12%	
		Man	Was	W	0		0				
Safety Improvements	# of Projects	Yes	Yes	Yes	0	-1	0	-	•	•	
Safety Roadside Rest Area (SRRA) Rehabilitation	Location	Yes	Yes	Yes	0	0	0		-		
Major Damage (Emergency					_						
Opening)	Location	Yes	Yes	Yes	0	0	0	-	-	-	
Major Damage (Permanent											
Restoration)	Location	Yes	Yes	Yes	0	0	0	-	-	-	
Relinguishments	Centerline Miles	Yes	Yes	Yes	0	-3	-11	-			
Roadway Protective	Centernine wines	res	165	165	•	-3	-11				
		Yes	Yes	Yes	0	0	0	-	-	-	
Betterments Water and Wastewater	Location										
		Yes	Yes	Yes	0	0	0		-	-	
Treatment at SRRAs	Location				-						
Advance Mitigation	Credits	Yes	Yes	Yes	0	0	0	-	-		
Hazardous Waste		Yes	Yes	Yes	0	0	0	١.			
Mitigation	Location	res	res	ies			U	-	•	-	
Roadside Rehabilitation	Acres	Yes	Yes	Yes	0	0	-71	-		-67%	
Storm Water Mitigation	Acres Treated	Yes	Yes	Yes	0	0	-140			-42%	
Zero Emission Vehicle											
Infrastructure	Location	Yes	Yes	Yes	0	0	0	-	-	0%	
Commercial Vehicle	COCCUON							—			
Enforcement Facilities	EA	Yes	Yes	Yes	0	0	0	-	-	0%	
		Yes	Yes	Yes	0	0	-201		-	-16%	
Operational Improvements					_						
Sign Panel Replacement	EA	Yes	Yes	Yes	0	0	0	-	•	0%	

The Book Published Quarterly

SHOPP ID	District	County	Route	Begin Mile	End Mile	Activity	Advertised Year	Project Cost (\$K)
<u>19308</u>	11	Imperial	8	R68.8	R96.55	Bridge	2020/21	\$5,500
<u>13842</u>	11	Imperial	8	R32.4	R46.1	Roadside	2021/22	\$3,611
20251	11	Imperial	8	R96.81	R96.81	Bridge	2021/22	\$13,600
20230	11	Imperial	8	R35.47	R35.47	Bridge	2025/26	\$1,860
14129	11	Imperial	78	62.3	73.8	Drainage	2019/20	\$1,474
20474	11	Imperial	78	5.5	75.4	Pavement	2026/27	\$13,300
20220	11	Imperial	86	R0.0	8.8	Pavement	2024/25	\$42,500
20222	11	Imperial	86	R26.4	57.3	Pavement	2024/25	\$60,300
20224	11	Imperial	86	18	21.8	Pavement	2024/25	\$14,400
<u>17936</u>	11	Imperial	98	32.1	32.5	Mobility	2021/22	\$3,621
20295	11	Imperial	98	30.8	39.7	Pavement	2026/27	\$22,400
19299	11	Imperial	111	3.5	45	fety - Collision Reduction	2023/24	\$24,300
20170	11	Imperial	111	R0.0	R1.2	Pavement	2024/25	\$10,200
20217	11	Imperial	111	R0.0	65.4	fety - Collision Reduction	2024/25	\$17,030
20296	11	Imperial	111	23.4	36.1	Pavement	2026/27	\$16,600
16327	11	Imperial	115	L10.4	19.8	Drainage	2019/20	\$1,143
20231	11	Imperial	115	R9.5	11.4	Pavement	2025/26	\$4,600
17379	11	Imperial	Var			Safety - SI	2021/22	\$2,984
16141	11	San Diego	5	R25.9	R26.8	Mobility	2017/18	\$9,701
<u>16707</u>	11	San Diego	5	R37.7	R48.9	Drainage	2017/18	\$12,035
<u>17346</u>	11	San Diego	5			Safety - SI	2017/18	\$4,152
21050	11	San Diego	5	R28.6	R29.3	Mobility	2018/19	\$6,750
9340	11	San Diego	5	R34.6	R35.1	tainability/Climate Cha	2019/20	\$3,344
16038	11	San Diego	5	0.4	72.4	Safety - SI	2019/20	\$2,642
16868	11	San Diego	5	R13.5	R14.4	Safety - SI	2019/20	\$6,000
18628	11	San Diego	5	R19.5	R55.4	Mobility	2019/20	\$24,238
16057	11	San Diego	5	3.4	5	Roadside	2020/21	\$2,722
16960	11	San Diego	5	R31.8	R32.2	tainability/Climate Cha	2020/21	\$3,340
17546	11	San Diego	5	R30.2	R34.2	Other	2020/21	\$6,317
17782	11	San Diego	5	R0.3	R5.0	Roadside	2020/21	\$13,701
17856	11	San Diego	5	R0.3	R15.2	Mobility	2020/21	\$27,207
18422	11	San Diego	5	R55.6	R70.0	fety - Collision Reduction	2020/21	\$8,493
18917	11	San Diego	5	R47.0	R48.0	Mobility	2021/22	\$8,026
19165	11	San Diego	5	R.3	R36	Pavement	2023/24	\$73,900
19301	11	San Diego	5	R42.2	R47.1	Mobility	2023/24	\$23,300
20218	11	San Diego	5	R0.3	R72.3	fety - Collision Reduction	2024/25	\$15,650
20228	11	San Diego	5	R67.4	R67.4	Mobility	2024/25	\$4,200
20457	11	San Diego	5	R0.3	R12.2	Pavement	2026/27	\$23,600
20465	11	San Diego	5	R30.7	R39.8	Pavement	2026/27	\$27,000
20468	11	San Diego	5	R50.2	R70.2	Pavement	2026/27	\$12,300

What's next.....

Tools for data collection (Bad Elf vs surveys?), HQ effort, TRB...

Room for Improvement (Excel vs. other AM tools, TRB)

Tracking completed Performance?

Be flexible for changes to the Plan and the future (El Cajon Bridge, Striping, Barriers, Autonomous vehicles)

Districts to manage their own **Portfolios**

Ongoing changes or challenges (People, updated widget counting...)





Presented by Circulate San Diego, Caltrans, SANDAG, & the Cities of San Diego and Chula Vista



Thank You