05-SLO-101-0.5/35.0
40.50.201.235
05-1C110_ (0512000075)
September, 2011

Request Programming in 2012 SHOPP

PROJECT LOCATION:
In San Luis Obispo County on route 101 from the Santa Maria River Bridge to Cuesta OH at various locations.

APPROVAL RECOMMENDED:

DISTRICT PROGRAM MANAGER

APPROVAL RECOMMENDED:

PROJECT MANAGER

APPROVED:

DISTRICT DIRECTOR

9/27/11
DATE

This Project Initiation Document has been prepared under the direction of the following licensed landscape architect. The licensed landscape architect attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based.

LICENSED LANDSCAPE ARCHITECT

9/27/11
DATE

Initiating Office/Initiator:

The Program Manager for the Roadside Safety Improvement Program has established that a project is needed that meets the qualification for the 40.50.201.235 Program.

This project initiation document provides conceptual approval of the proposal and a recommendation to program the project into the current State Highway Operation and Protection Program. A project report will serve as final approval of the proposal.

Purpose and Need:

Purpose:
The roadsides of these routes have not been updated for many years and the Department has placed greater emphasis on maintenance worker safety and roadside maintainability. This project will help correct these problems and create a more user friendly and safe work environment for maintenance personnel.

Need:
Identified areas within the project limits frequently expose maintenance workers to high speed traffic. The maintenance exposure to traffic will be reduced by correcting the identified deficiencies. Some areas of concern are lack of weed control under guardrail and in the median, mowing areas within narrow areas, and silt removal from the shoulder. Other needs include vandal resistant enclosures on backflow preventers, increasing remote irrigation control equipment use, and relocating existing irrigation equipment to safer locations.

Deficiency Summary:

Deficiency corrections include adding maintenance vehicle pullouts and access gates, adding vegetation control treatment under guardrails, weed control planting and erosion control, pruning trees, and paving or applying inert materials to narrow areas, slopes adjacent to bridge abutments, low visibility areas and road edges. Other corrections for deficiencies include installing vandal resistant enclosures on backflow preventers, increasing remote irrigation control equipment use, and relocating and clustering existing irrigation equipment away from the traveled way.

Project Proposal:

This project will improve safety at 72 locations for maintenance workers and the traveling public. The project will modify or relocate roadside facilities and improve safe

access to reduce the need for maintenance workers and vehicles to be on the roadside, and to reduce life cycle cost. The project proposes to relocate and cluster existing roadside facilities to safer work locations away from the traveled way, add maintenance vehicle pullouts, access gates, and trails for light duty vehicles and staircases. The project will pave or apply inert materials to areas beyond the gore, narrow areas, slopes adjacent to bridge abutments, low visibility areas and road edges, and add vegetation control treatment under existing guard rail.

R/W: All work will be conducted within the State Right of Way. At this point no utilities are expected to be relocated.

Hazardous Waste: No hazardous waste impacts are expected with this project.

Stormwater: A storm water data report will be developed and updated at each milestone of the project.

Environmental: There are no environmental issues identified at this time.

Programming

PROJECT COST COMPONENT	Fiscal Years				Total
	2012/13	2013/14	2014/15	2015/16	
R/W Capital		$5			$5
Constr. Capital				$2,547	$2,547
Subtotal Capital by FY		$5		$2,547	$2,552
PA&ED Support	$281				$281
PS&E Support		$520			$520
R/W Support		$5			$5
Constr. Support				$512	$512
Subtotal Support by FY	$281	$525		$512	$1,318
Total Project Cost by FY	$281	$530		$3,059	$3,870

Note: All costs X $1,000. Support categories are the same as those identified by SB 45. Support Costs escalated at 5% for all years. Construction Capital escalated at 5% per year. Right of Way Capital estimate is escalated at 5% per year. Support Cost ratio: 52% (All Support Costs divided by the sum of the escalated Construction Capital and escalated R/W Capital.

Schedule:

HQ Milestones	Delivery Date (Month, Year)
Program Project	April 2012
Begin Environmental	July 2012
PA & ED	March 2014
Regular Right of Way	March 2014
PS & E to Region OE	July 2015
Project PS&E	September 2015
Right of Way Certification	September 2015
Ready to List	December 2015
Approve Contract	May 2016
Contract Acceptance	March 2017

Key assumptions for the workplan (scope, schedule and cost: support and capital):

The District has evaluated the risks associated with the accelerated development of this Project Initiation Document (PID) for the 2012 SHOPP and identified the following:

- Due to the expedited review and development of the Project scope, schedule,

objectives, cost and deliverables may not be clearly defined or understood. As the project is developed team members will need to identify and communicate changes (assumptions, constraints, risks, scope, schedule and / or budget) to the appropriate Task Manager and Project Manager immediately so that the Team may assess potential actions, impacts and categorize (avoid, transfer, mitigate, exploit, share, enhance or accept) the proposed change to the project.

- The workplan was developed using a expedited review for a "Bottoms-Up" approach at the lowest WBS level and then rolled up to "Work Breakdown Structure "Level 5 - the Major Task Level". Not all functions may have had the opportunity to adequately review and submit workplan estimates that reflect the stated scope of work, therefore the workplan may not be representative of the work needed to produce the desired product.

- The project support budget (in dollars) was developed from the expedited workplan (in hours by task) based upon the value(s) set for the Cost Centers with Source Unit by District in the "Proposed Cost/ Hour in the eXpert Project Management (XPM)" as of September 27, 2011 and includes an escalation factor of 5% for each year through the close of the project.

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The project team will monitor and manage these risks through the development of the project and prepare programming changes as needed.

Cost Estimate:

Access Work		Yes/No	Quantity (unit)	*Cost
(A)	Access Gates - Personnel	Yes	18 (ea)	$31,500
(B)	Access Gates - Equipment	Yes	2 (ea)	$6,000
(C)	Light Duty Access Trails	_____	_____	_____
	(a) All Weather Surface	Yes	4 (ea)	$10,000
	(b) Graded Surface	_____	_____	_____
	(#) _____	_____	_____	_____
(D)	Shoulder Widening/Turnouts**	_____	_____	_____
	(a) Paved Surface	_____	_____	_____
	(b) All Weather Surface	_____	_____	_____
	(c) Graded Surface	_____	_____	_____
	(#) _____	_____	_____	_____
(E)	Staircases	_____	_____	_____
(F)	Maintenance Vehicle Pullout	_____	_____	_____
	(a) Gravel	Yes	3 (ea)	$12,000
	(b) Standard	Yes	5 (ea)	$42,500
(G)	Chain Link Fence (Type CL-6)	Yes	3500 (lf)	$105,000
	COSTS SUBTOTAL			**$201,000**

Vegetation Control Work	Yes/No	Quantity (unit)	*Cost
(A) Vegetation control under Metal Beam Guard Rail	Yes	600 (cy)	$39,000
(B) Vegetation control under Thrie Beam Barrier	_____	_____	_____
(C) Vegetation control around sign posts	_____	_____	_____
(D) Paving narrow areas	Yes	3,500 (sy)	$227,500
(E) Paving areas beyond the gore	_____	_____	_____
(F) Vegetation control Slope Paving	Yes	6 (ea)	$600,000
(G) Tree removal	Yes	10 (ea)	$10,000
(H) Mulch	Yes	2,500 (cy)	$150,000
(I) Erosion Control Compost Blanket 1/2 in.	Yes	5.5 (ac)	$27,500
(J) Prune Existing Plant Material	Yes	1 (ls)	$35,000
(F) Weed Control Planting	Yes	1 (ls)	$25,000
COST SUBTOTALS			**$1,114,000**

Facility Relocation Work	Yes/No	Quantity (unit)	*Cost

(A) Pull boxes	_____	_____	_____
(B) Irrigation valve boxes	_____	_____	_____
(C) Backflow preventer assemblies	_____	_____	_____
(D) Electrical control boxes	_____	_____	_____
(E) Traffic control boxes	_____	_____	_____
(F) Irrigation control boxes	_____	_____	_____
(G) Irrigation equipment	Yes	1 (ea.)	$74,000
COST SUBTOTALS			**$74,000**

Additional Work		Yes/No	Quantity (unit)	*Cost
(A)	Traffic Control	Yes	1 (ls)	$147,000
(B)	Earthwork***	_____	_____	_____
(C)	Pavement**** (include remove and replace)	_____	_____	_____
(D)	Clearing and Grubbing	_____	_____	_____
(E)	Roadside clearing	Yes	1 (ls)	$50,000
(F)	Plant Establishment - 6 months	Yes	1 (ls)	$25,000
(G)	Drainage adjustment and rehab.	Yes	1 (ls)	$75,000
(H)	Guardrail (include remove and replace)	_____	_____	_____
	(a) Metal Beam	_____	_____	_____
	(b) Concrete	_____	_____	_____
	(c) Bridge Approach	_____	_____	_____
	(#) _____	_____	_____	_____
(I)	Drainage Adjustment and Rehabilitation# (List type of work)	_____	_____	_____
(J)	Retaining Walls	_____	_____	_____
(K)	Utility Relocation	_____	_____	_____
(L)	Railroad Agreements	_____	_____	_____
(M)	Environmental Mitigation	_____	_____	_____
(N)	Relocation of Materials	_____	_____	_____
(O)	Breakaway signs in gore areas	Yes	50 (ea)	$30,000
(P)	Water pollution control	Yes	1 (ls)	$20,000
(Q)	ADL Testing and Compliance	Yes	1 (ls)	$5,000
(R)	Resident Engineers Office	Yes	1 (ls)	$5,000
	COST SUBTOTALS			$357,000
	SUM OF SUBTOTALS			$1,746,000
	20% Contingency			$349,200
	TOTAL CONSTRUCTION COST			$2,095,200

Note:
* If duplicated in other items, show cost in parenthesis.
** Include cost of shoulder backing material, as needed.
*** Earthwork other than that required for grading turnouts or access trails.
**** Pavement work other than that required for the Access or Vegetation Control work.
# Add Additional lines as necessary. Do not include support costs.