

Estimated Project Costs				
MOHAWK REST AREA				
<div> <div>Project Description:</div> <div> Add 10 truck parking spaces to EB by extending parking to the east with minor ramp realignment within existing ROW. Add 6 truck parking spaces to WB by extending parking to the west with minor ramp realignment within existing ROW. Expansion in both directions will eliminate the existing islands at the ends of existing parking areas.  Upgrade interior lighting with LED lights, and install security cameras. </div> </div>				
Area of Disturbance: (In Acres)    Less than 1 Acre				
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$143,200	\$143,200
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	0	\$14,320	\$0
SUBTOTAL – PROJECT DESIGN COSTS				\$ 143,200
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
CONSTRUCT TRUCK PARKING SPACE	Each	16	\$52,000	\$832,000
CONSTRUCT CAR PARKING SPACE	Each	0	\$6,600	\$0
CONSTRUCT OVERFLOW PARKING LOT	SY	0	\$26	\$0
CONSTRUCT NEW RAMP	LF	0	\$470	\$0
CONSTRUCT ACCESS ROADS	LS	0	\$470	\$0
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (if over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	0		\$0
MISCELLANEOUS RDWY WORK-	LS	0	\$0	\$0
SUBTOTAL - ROADWAY CONSTRUCTION				\$ 832,000
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0	\$400,000.00	\$0
REHAB RESTROOM BLDG	LS	0	\$400,000.00	\$0
REHAB WELL PUMP HOUSE	LS	0	\$75,000.00	\$0
REHAB CARETAKER'S RESIDENCE	LS	0	\$250,000.00	\$0
REHAB PAVEMENT	LS	0	\$1,000,000.00	\$0
REHAB SIDEWALKS	LS	0	\$800,000.00	\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	1	\$400,000.00	\$400,000
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
REHAB ELECTRICAL	LS	0	\$170,000.00	\$0
SUBTOTAL – INFRASTRUCTURE REHABILITATION				\$ 400,000
OTHER NEW CONSTRUCTION ITEMS				
INSTALL HIGH-MAST LIGHTING	LS	0	\$1,000,000.00	\$0
INSTALL SECURITY CAMERAS	LS	1	\$200,000.00	\$200,000
INSTALL VAULTED TOILET	Each	0		\$0
INSTALL COMPOSTING TOILET	Each	0		\$0
INSTALL SIGNS AND DISPLAYS	Each	0		\$0
NEW SITE PAVING	LS	0		\$0
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 200,000
SUBTOTAL - CONSTRUCTION LINE ITEMS				\$ 1,432,000
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$143,200	\$143,200
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$71,600	\$71,600
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$14,320	\$14,320
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$143,200	\$143,200
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$257,760	\$257,760
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ 630,080
TOTAL ESTIMATED CONSTRUCTION COSTS				\$ 2,062,080
RIGHT-OF-WAY ACQUISITION (if necessary)				
LS	0			\$0
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$2,205,280

## Comments

**NOTE:** For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum.

Expansion in both directions will eliminate the existing 'islands' at the ends of existing truck parking areas.

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E53.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

If needed, use 5% of construction costs; input manually

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab

Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project does NOT require new Right-of-Way

Estimated Project Costs				
I-10 at Ehrenberg Rest Area				
Project Description:	Expand EB truck parking (38 spaces) and car parking (15 spaces) to the east within existing ROW. Expand WB truck parking to the west without impacting the existing ramp and to the east within existing ROW with an overflow parking lot in the NE corner north of the rest area, north of the wash. EB will require a new entrance ramp to I-10 and an auxiliary lane to the exit to Tom Wells Road. Upgrade high-mast lighting, upgrade interior lighting with LED lights, and install security cameras.			
Area of Disturbance: (In Acres)	6.3 Acre			
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$383,931	\$383,931
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance. 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$38,393	\$38,393
SUBTOTAL – PROJECT DESIGN COSTS				\$ 422,325
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
GRADING ROADWAY FOR PAVEMENT	SY	30,473	\$10	\$304,730
GORE PAVING	SY	67	\$180	\$12,060
PARKING PAVING	SY	19,683	\$70	\$1,377,810
RAMP PAVING	SY	4,403	\$118	\$519,554
CONSTRUCT ACCESS ROAD	SY	2,547	\$180	\$458,460
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$158,600	\$158,600
MISCELLANEOUS RDWY WORK- Traffic Signs (Guide signs along highway and other traffic signs)	LS	1	\$500,000	\$500,000
SUBTOTAL - ROADWAY CONSTRUCTION				\$ 3,331,214
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	1	\$100,000.00	\$100,000
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
PROVIDE ELECTRICAL	LS	1	\$170,000.00	\$170,000
SUBTOTAL – INFRASTRUCTURE REHABILITATION				\$ 270,000
OTHER NEW CONSTRUCTION ITEMS				
INSTALL HIGH-MAST LIGHTING	LS	1	\$500,000.00	\$500,000
INSTALL LIGHTING w/ SOLAR PANEL	Each	0	\$5,000.00	\$0
INSTALL SECURITY CAMERAS	LS	1	\$200,000.00	\$200,000
INSTALL VAULTED TOILET	Each	0	\$350,000.00	\$0
INSTALL COMPOSTING TOILET	Each	0		\$0
TRASH RECPTACLES	Each	6	\$1,000.00	\$6,000
INSTALL SIGNS AND DISPLAYS	Each	0	\$25,000.00	\$0
INSTALL FENCING	LF	1,070	\$30.00	\$32,100
NEW SITE PAVING	LS	0	\$1,000,000.00	\$0
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 238,100
SUBTOTAL - CONSTRUCTION LINE ITEMS				\$ 3,839,314
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$383,931	\$383,931
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$191,966	\$191,966
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$38,393	\$38,393
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$383,931	\$383,931
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$691,077	\$691,077
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ 1,689,298
TOTAL ESTIMATED CONSTRUCTION COSTS				\$ 5,528,612
RIGHT-OF-WAY ACQUISITION (if necessary)	Acre	0	\$0.00	\$0
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$5,950,937

Designer Notes:

Comments

**NOTE:** For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum from the 2023 Statewide Rest Area Parking Study.

To Be Updated

The new EB entrance ramp is close enough to Tom Wells Rd TI to require an auxilliary lane to provide adequate acceleration length. The WB expansion of the existing diagonal truck parking is reduced to 7 spaces to avoid impacting the existing ramp gore. The WB overflow lot will accommodate 8 diagonal spaces and will require a circular traffic pattern. Two pipes at wash crossings are required.

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E54.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

This is 11" PCCP over 4" AB (From MAG estimate: \$135/SY PCCP + \$8/SY AB=\$143 + 25% for rural area and small quantity = \$180/SY

This is an alternative to AC pavement-TBD

This is 11" AC over 11" AB (From MAG estimate: \$72/SY AC + \$22/SY AB=\$94 + 25% for rural area and small quantity = \$118/SY

This is PCCP for zero maintenance, same as Gore Paving

If needed, use 5% of construction costs; input manually

Use 2 guide signs for each direction @ \$100,000 each and \$100,000 for other signs

From RA Study

From RA Study

From RA Study

From RA Study

6' high chain link fence between new EB truck parking and I-10

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab

Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project does NOT require new Right-of-Way

Estimated Project Costs				
<b>BOUSE WASH REST AREA</b>				
<b>Project Description:</b> <p>Expand truck parking for both EB and WB rest areas by expanding rest area ROW to provide overflow parking lots. The EB overflow lot will be to the southeast. The WB overflow lot will be north of the Caretaker's Residence and will require an easement or ROW from the CAP for access to the lot. Install high-mast lighting, upgrade interior lighting with LED lights, and install security cameras.</p>				
<b>Area of Disturbance: (In Acres)</b> 7+ Acres				
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
<b>PROJECT SCOPING</b>				
<b>SCOPING COSTS</b>				
<b>Scoping has been completed - No Scoping Costs</b>				
<b>SUBTOTAL – PROJECT SCOPING COSTS</b>				<b>\$0</b>
<b>SCOPING LEVEL ESTIMATED DESIGN COSTS</b>				
<b>DESIGN COSTS</b>				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$252,200	\$252,200
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$25,220	\$25,220
<b>SUBTOTAL – PROJECT DESIGN COSTS</b>				<b>\$ 277,420</b>
<b>SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS</b>				
<b>ROADWAY CONSTRUCTION</b>				
CONSTRUCT TRUCK PARKING SPACE	Each	0	\$52,000	\$0
CONSTRUCT CAR PARKING SPACE	Each	0	\$6,600	\$0
CONSTRUCT OVERFLOW PARKING LOT	SY	24,300	\$26	\$631,800
CONSTRUCT NEW RAMP	LF	0	\$470	\$0
CONSTRUCT ACCESS ROADS	LF	760	\$700	\$532,000
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$58,200	\$58,200
MISCELLANEOUS RDWY WORK-	LS	0	\$0	\$0
<b>SUBTOTAL - ROADWAY CONSTRUCTION</b>				<b>\$ 1,222,000</b>
<b>INFRASTRUCTURE REHABILITATION</b>				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	1	\$100,000.00	\$100,000
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
REHAB ELECTRICAL	LS	0		\$0
<b>SUBTOTAL – INFRASTRUCTURE REHABILITATION</b>				<b>\$ 100,000</b>
<b>OTHER NEW CONSTRUCTION ITEMS</b>				
INSTALL HIGH-MAST LIGHTING	LS	1	\$1,000,000.00	\$1,000,000
INSTALL SECURITY CAMERAS	LS	1	\$200,000.00	\$200,000
INSTALL VAULTED TOILET	Each	0		\$0
INSTALL COMPOSTING TOILET	Each	0		\$0
INSTALL SIGNS AND DISPLAYS	Each	0		\$0
NEW SITE PAVING	LS	0		\$0
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
<b>SUBTOTAL – OTHER CONSTRUCTION LINE ITEMS</b>				<b>\$ 1,200,000</b>
<b>SUBTOTAL - CONSTRUCTION LINE ITEMS</b>				<b>\$ 2,522,000</b>
<b>MOBILIZATION AND ADMINISTRATION COSTS</b>				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$252,200	\$252,200
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$126,100	\$126,100
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$25,220	\$25,220
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$252,200	\$252,200
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$453,960	\$453,960
<b>SUBTOTAL – MOBILIZATION &amp; ADMINISTRATION COSTS</b>				<b>\$ 1,109,680</b>
<b>TOTAL ESTIMATED CONSTRUCTION COSTS</b>				<b>\$ 3,631,680</b>
RIGHT-OF-WAY ACQUISITION	Acre	17.0		\$435,700
<b>TOTAL ESTIMATED PROJECT COST (All subtotals)</b>				<b>\$4,344,800</b>

## Comments

**NOTE:** For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the **Basis of Design and Unit Costs** memorandum.

The EB overflow lot will require a lot that is 520'x300' and will provide 30 spaces. Actual pavement area is 13,800 SY. The EB Safe Area will be south of the wash to reduce drainage costs, but will require 260' of access road. The WB overflow lot will require a lot that is 420'x300' and will provide 25 spaces; similar to the overflow lot for EB Meteor Crater. Actual pavement area is 10,500 SY. The WB overflow lot will be north of the wash behind the Caretaker's Residence to provide some separation, but will require 500' of access road.

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E53.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

Access Rds= 260' (EB) + 500' (WB)=760' of 32'-wide roads

If needed, use 5% of construction costs; input manually

EB and WB at \$500,000 each direction  
EB and WB at \$100,000 each direction

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab  
Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

EB=580'x562' Trapezoid= 7.5 Acre  
WB=750'x515' Trapezoid=8.9 Acre  
from CAP=120'x240' Trap.=0.6 Acre  
Total=17.0 Acre



Estimated Project Costs				
<b>SACATON REST AREA</b>				
<b>Project Description:</b> <div> Add 13 truck parking spaces to EB by realigning both exit and entrance ramps without disturbing the existing ramp gores. Add 7 truck parking spaces to WB by realigning the exit ramp without disturbing the existing ramp gore. Install high-mast lighting, upgrade interior lighting with LED lights, and install security cameras. </div>				
<b>Area of Disturbance: (In Acres)</b> 5 Acres				
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
<b>PROJECT SCOPING</b>				
<b>SCOPING COSTS</b>				
<b>Scoping has been completed - No Scoping Costs</b>				
<b>SUBTOTAL – PROJECT SCOPING COSTS</b>				<b>\$0</b>
<b>SCOPING LEVEL ESTIMATED DESIGN COSTS</b>				
<b>DESIGN COSTS</b>				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$331,520	\$331,520
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$33,152	\$33,152
<b>SUBTOTAL – PROJECT DESIGN COSTS</b>				<b>\$ 364,672</b>
<b>SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS</b>				
<b>ROADWAY CONSTRUCTION</b>				
CONSTRUCT TRUCK PARKING SPACE	Each	21	\$52,000	\$1,092,000
CONSTRUCT CAR PARKING SPACE	Each	0	\$6,600	\$0
CONSTRUCT OVERFLOW PARKING LOT	SY	0	\$26	\$0
CONSTRUCT NEW RAMP	LF	1,760	\$470	\$827,200
CONSTRUCT ACCESS ROADS	LF	0	\$470	\$0
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (if over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$96,000	\$96,000
MISCELLANEOUS RDWY WORK-	LS	0	\$0	\$0
<b>SUBTOTAL - ROADWAY CONSTRUCTION</b>				<b>\$ 2,015,200</b>
<b>INFRASTRUCTURE REHABILITATION</b>				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	1	\$100,000.00	\$100,000
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
REHAB ELECTRICAL	LS	0		\$0
<b>SUBTOTAL – INFRASTRUCTURE REHABILITATION</b>				<b>\$ 100,000</b>
<b>OTHER NEW CONSTRUCTION ITEMS</b>				
INSTALL HIGH-MAST LIGHTING	LS	1	\$1,000,000.00	\$1,000,000
INSTALL SECURITY CAMERAS	LS	1	\$200,000.00	\$200,000
INSTALL VAULTED TOILET	Each	0		\$0
INSTALL COMPOSTING TOILET	Each	0		\$0
INSTALL SIGNS AND DISPLAYS	Each	0		\$0
NEW SITE PAVING	LS	0		\$0
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	1		\$0
<b>SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS</b>				<b>\$ 1,200,000</b>
<b>SUBTOTAL - CONSTRUCTION LINE ITEMS</b>				<b>\$ 3,315,200</b>
<b>MOBILIZATION AND ADMINISTRATION COSTS</b>				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$331,520	\$331,520
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$265,216	\$265,216
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$33,152	\$33,152
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$331,520	\$331,520
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$596,736	\$596,736
<b>SUBTOTAL – MOBILIZATION &amp; ADMINISTRATION COSTS</b>				<b>\$ 1,558,144</b>
<b>TOTAL ESTIMATED CONSTRUCTION COSTS</b>				<b>\$ 4,873,344</b>
RIGHT-OF-WAY ACQUISITION (if necessary)	Acre	0		\$0
<b>TOTAL ESTIMATED PROJECT COST (All subtotals)</b>				<b>\$5,238,016</b>

## Comments

**NOTE:** For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum.

For EB north of existing truck parking, 6 spaces will be added and require 670' of interior ramp reconstruction. For EB south of existing truck parking, 7 spaces will be added and require 540' of interior ramp reconstruction. For WB, the 7 spaces are added south of existing truck parking and will require 550' of interior ramp reconstruction.

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E53.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

These are 22'-wide roads

If needed, use 5% of construction costs; input manually

EB & WB at \$500,000 each direction  
EB & WB at \$100,000 each direction

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab  
Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project does NOT require new Right-of-Way

Estimated Project Costs				
TEXAS CANYON REST AREA				
Project Description:		Add 10 truck parking spaces to EB by realigning 760' of ramp near the ponds; will require revising access to ponds. Add 7 truck parking spaces to WB by realigning 500' of ramp near the water tank; will require revising access to the tank. Install high-mast lighting, upgrade interior lighting with LED lights, and install security cameras.		
Area of Disturbance: (In Acres) 2 Acres				
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$290,800	\$290,800
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$29,080	\$29,080
SUBTOTAL – PROJECT DESIGN COSTS				\$ 319,880
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
CONSTRUCT TRUCK PARKING SPACE	Each	17	\$52,000	\$884,000
CONSTRUCT CAR PARKING SPACE	Each	0	\$6,600	\$0
CONSTRUCT OVERFLOW PARKING LOT	SY	0	\$26	\$0
CONSTRUCT NEW RAMP	LF	0	\$470	\$0
CONSTRUCT ACCESS ROADS	LF	1,260	\$470	\$592,200
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$76,600	\$76,600
MISCELLANEOUS RDWY WORK- Revise access to ponds and tank	LS	1	\$55,200	\$55,200
SUBTOTAL - ROADWAY CONSTRUCTION				\$ 1,608,000
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	1	\$100,000.00	\$100,000
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
REHAB ELECTRICAL	LS	0		\$0
SUBTOTAL – INFRASTRUCTURE REHABILITATION				\$ 100,000
OTHER NEW CONSTRUCTION ITEMS				
INSTALL HIGH-MAST LIGHTING	LS	1	\$1,000,000.00	\$1,000,000
INSTALL SECURITY CAMERAS	LS	1	\$200,000.00	\$200,000
INSTALL VAULTED TOILET	Each	0		\$0
INSTALL COMPOSTING TOILET	Each	0		\$0
INSTALL SIGNS AND DISPLAYS	Each	0		\$0
NEW SITE PAVING	LS	0		\$0
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	1		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 1,200,000
SUBTOTAL - CONSTRUCTION LINE ITEMS				\$ 2,908,000
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$290,800	\$290,800
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$232,640	\$232,640
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$29,080	\$29,080
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$290,800	\$290,800
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$523,440	\$523,440
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ 1,366,760
TOTAL ESTIMATED CONSTRUCTION COSTS				\$ 4,274,760
RIGHT-OF-WAY ACQUISITION (if necessary)				
Acre	0			\$0
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$4,594,640

## Comments

**NOTE:** For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum.

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E53.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

These are 22'-wide roads

If needed, use 5% of construction costs; input manually

minor driveways + minor drainage

EB & WB at \$500,000 each direction  
EB & WB at \$100,000 each direction

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab  
Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project does NOT require new Right-of-Way

Estimated Project Costs				
I-10 at San Simon Rest Area				
<div>Project Description:</div> <div>Expand truck parking for both EB and WB to the west with new ROW and shifted ramps with new gores. Expansion will be for 38 spaces (EB) and 42 spaces (WB); for a total of 80 spaces. Install high-mast lighting, upgrade interior lighting with LED lights, and install security cameras.</div>				
Area of Disturbance: (In Acres) 7.8 Acre				
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$482,420	\$482,420
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$48,242	\$48,242
SUBTOTAL – PROJECT DESIGN COSTS				\$ 530,662
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
GRADING ROADWAY FOR PAVEMENT	SY	38,020	\$10	\$380,200
GORE PAVING	SY	325	\$180	\$58,500
PARKING PAVING	SY	26,525	\$70	\$1,856,750
RAMP PAVING	SY	5,354	\$118	\$631,772
CONSTRUCT ACCESS ROAD	SY	2,547	\$180	\$458,460
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$206,800	\$206,800
MISCELLANEOUS RDWY WORK- 246 LF of New 2x8x5 CBC at two locations w/4 wingwalls	LS	1	\$250,000	\$250,000
MISCELLANEOUS RDWY WORK- Traffic Signs (Guide signs along highway and other traffic signs)	LS	1	\$500,000	\$500,000
SUBTOTAL - ROADWAY CONSTRUCTION				\$ 4,342,482
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	1	\$100,000.00	\$100,000
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
PROVIDE ELECTRICAL	LS	0		\$0
SUBTOTAL – INFRASTRUCTURE REHABILITATION				\$ 100,000
OTHER NEW CONSTRUCTION ITEMS				
INSTALL HIGH-MAST LIGHTING	LS	1	\$1,000,000.00	\$1,000,000
INSTALL LIGHTING w/ SOLAR PANEL	Each	0		\$0
INSTALL SECURITY CAMERAS	LS	1	\$200,000.00	\$200,000
INSTALL VAULTED TOILET	Each	0		\$0
INSTALL COMPOSTING TOILET	Each	0		\$0
TRASH RECPTACLES	Each	6	\$1,000.00	\$6,000
INSTALL SIGNS AND DISPLAYS	Each	4	\$25,000.00	\$100,000
INSTALL FENCING	LF	2,524	\$30.00	\$75,720
NEW SITE PAVING	LS	0	\$1,000,000.00	\$0
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 381,720
SUBTOTAL - CONSTRUCTION LINE ITEMS				\$ 4,824,202
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$482,420	\$482,420
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$385,936	\$385,936
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$48,242	\$48,242
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$482,420	\$482,420
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$868,356	\$868,356
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ 2,267,375
TOTAL ESTIMATED CONSTRUCTION COSTS				\$ 7,091,577
RIGHT-OF-WAY ACQUISITION (if necessary)	Acre	8	\$0.00	\$228,700
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$7,850,939

Designer Notes:

Comments

**NOTE:** For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum from the 2023 Statewide Rest Area Parking Study.

To Be Updated

The WB expansion will cross a major wash and require a box culvert. It will need a new entrance ramp. The EB expansion will cross a minor wash; requiring a channel parallel to EB I-10 and outleting into the major wash. The expansion will also cross the major wash and require a box culvert. It will need a new exit ramp.

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E54.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

This is 11" PCCP over 4" AB (From MAG estimate: \$135/SY PCCP + \$8/SY AB=\$143 + 25% for rural area and small quantity = \$180/SY

This is an alternative to AC pavement-TBD

This is 11" AC over 11" AB (From MAG estimate: \$72/SY AC + \$22/SY AB=\$94 + 25% for rural area and small quantity = \$118/SY

This is PCCP for zero maintenance, same as Gore Paving

If needed, use 5% of construction costs; input manually

246 LF at \$1,000/LF

Use 2 guide signs for each direction @ \$100,000 each and \$100,000 for other signs

From RA Study

From RA Study

From RA Study

6' high chain link fence between new truck parking and I-10

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab

Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project requires new Right-of-Way







Estimated Project Costs				
I-10 at US 191 SAFE AREA				
Project Description:	Construct a safe truck parking only location along I-10 east of the Texas Canyon Rest Area at the exit to US 191 at MP 331.6. The parking area will be between WB I-10 and the US 191 loop ramp and will consist of an alternative type pavement lot, lighting w/ solar panels, toilet facilities, highway signage, and trash recptacles.			
Area of Disturbance: (In Acres)	8 Acres			
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$466,728	\$466,728
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance. 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$46,673	\$46,673
SUBTOTAL – PROJECT DESIGN COSTS				\$ 513,401
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
GRADING ROADWAY FOR PAVEMENT	SY	38,500	\$10	\$385,000
GORE PAVING	SY	0	\$180	\$0
PARKING PAVING	SY	35,075	\$70	\$2,455,250
RAMP PAVING	SY	2,415	\$118	\$284,970
CONSTRUCT ACCESS ROAD	SY	1,008	\$180	\$181,440
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$177,830	\$177,830
MISCELLANEOUS RDWY WORK- Traffic Signs (Guide signs along highway and other traffic signs)	LS	1	\$250,000	\$250,000
SUBTOTAL - ROADWAY CONSTRUCTION				\$ 3,734,490
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	0		\$0
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
PROVIDE ELECTRICAL TO SITE	LS	0		\$0
SUBTOTAL – INFRASTRUCTURE REHABILITATION				\$ -
OTHER NEW CONSTRUCTION ITEMS				
INSTALL LIGHTING w/ SOLAR PANELS	Each	8	\$5,000.00	\$40,000
INSTALL SECURITY CAMERAS	LS	0		\$0
INSTALL VAULTED TOILET	Each	2	\$350,000.00	\$700,000
INSTALL COMPOSTING TOILET	Each	0		\$0
TRASH RECPTACLES	Each	6	\$1,000.00	\$6,000
INSTALL SIGNS AND DISPLAYS	Each	4	\$25,000.00	\$100,000
INSTALL FENCING	LF	2,893	\$30.00	\$86,790
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 932,790
SUBTOTAL - CONSTRUCTION LINE ITEMS				\$ 4,667,280
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$466,728	\$466,728
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$373,382	\$373,382
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$46,673	\$46,673
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$466,728	\$466,728
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$840,110	\$840,110
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ 2,193,622
TOTAL ESTIMATED CONSTRUCTION COSTS				\$ 6,860,902
RIGHT-OF-WAY ACQUISITION (if necessary)				
Acre	0			\$0
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$7,374,302

**Designer Notes:**

1. The horizontal curvature of the US 191 ramp at the intersection with the access point from the SAFE lot restricts horizontal sight distance for trucks making a left turn out of the lot. Therefore, access to/from the lot should be restricted to WB I-10 traffic only.

2. The SAFE lot will accommodate 85 truck parking spaces, which is more than the 72 required for 2032, but less than the 100 required for 2042.

Comments

NOTE: For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the *Basis of Design and Unit Costs* memorandum from the 2023 Statewide Rest Area Parking Study.

To Be Updated

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E54.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

This is 11" PCCP over 4" AB (From MAG estimate: \$135/SY PCCP + \$8/SY AB=\$143+25% for rural area an small quantity = \$180/SY

This is an alternative to AC pavement-TBD

This is 11" AC over 11" AB (From MAG estimate: \$72/SY AC + \$22/SY AB=\$94 + 25% for rural area and small quantittity = \$118/SY

This is PCCP for zero maintenance, same as Gore Paving

If needed, use 5% of construction costs; input manually

Use 2 guide signs for WB direction @ \$100,000 each and \$50,000 for other signs

6' high chain link fence

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab

Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project does NOT require new Right-of-Way

Estimated Project Costs				
I-10 at Sibyl Rd T1				
Project Description:		Construct a truck parking area in an abandoned site south of the EB exit ramp west of the Texas Canyon Rest Area at MP 312.8. The parking area will be in an abandoned commercial site adjacent to the EB exit ramp in new R/W and will consist of an alternative type pavement lot, lighting w/ solar panels, toilet facilities, highway signage, and trash receptacles.		
Area of Disturbance: (In Acres)		3.5 Acres		
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$227,367	\$227,367
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$22,737	\$22,737
SUBTOTAL – PROJECT DESIGN COSTS				\$ 250,104
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
GRADING ROADWAY FOR PAVEMENT	SY	16,844	\$10	\$168,440
GORE PAVING	SY	0	\$180	\$0
PARKING PAVING	SY	16,379	\$70	\$1,146,530
RAMP PAVING	SY	0	\$118	\$0
CONSTRUCT ACCESS ROAD	SY	465	\$180	\$83,700
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$82,400	\$82,400
MISCELLANEOUS RDWY WORK- Traffic Signs (Guide signs along highway and other traffic signs)	LS	1	\$250,000	\$250,000
SUBTOTAL - ROADWAY CONSTRUCTION				\$ 1,731,070
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	0		\$0
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
PROVIDE ELECTRICAL TO SITE	LS	0		\$0
SUBTOTAL – INFRASTRUCTURE REHABILITATION				\$ -
OTHER NEW CONSTRUCTION ITEMS				
INSTALL LIGHTING w/ SOLAR PANELS	Each	4	\$5,000.00	\$20,000
INSTALL SECURITY CAMERAS	LS	0		\$0
INSTALL VAULTED TOILET	Each	1	\$350,000.00	\$350,000
INSTALL COMPOSTING TOILET	Each	0		\$0
TRASH RECEPTACLES	Each	6	\$1,000.00	\$6,000
INSTALL SIGNS AND DISPLAYS	Each	4	\$25,000.00	\$100,000
INSTALL FENCING	LF	2,220	\$30.00	\$66,600
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 542,600
SUBTOTAL - CONSTRUCTION LINE ITEMS				\$ 2,273,670
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$227,367	\$227,367
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$113,684	\$113,684
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$22,737	\$22,737
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$227,367	\$227,367
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$409,261	\$409,261
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ 1,000,415
TOTAL ESTIMATED CONSTRUCTION COSTS				\$ 3,274,085
RIGHT-OF-WAY ACQUISITION (if necessary)				
Acre	5.73	\$27,155		\$155,598
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$3,679,787

Designer Notes:

- The vertical clearance of the cross road under both directions of I-10 restricts access to the lot for WB I-10 traffic. Therefore, access to/from the lot should be restricted to EB I-10 traffic only.
- The lot will accommodate 37 truck parking spaces, which is less than the 62 required for 2032 for EB at Texas Canyon Rest Area.

Comments

**NOTE:** For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum from the 2023 Statewide Rest Area Parking Study.

To Be Updated

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E54.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

This is 11" PCCP over 4" AB (From MAG estimate: \$135/SY PCCP + \$8/SY AB=\$143+25% for rural area an small quantity = \$180/SY

This is an alternative to AC pavement-TBD

This is 11" AC over 11" AB (From MAG estimate: \$72/SY AC + \$22/SY AB=\$94 + 25% for rural area and small quantity = \$118/SY

This is PCCP for zero maintenance, same as Gore Paving

If needed, use 5% of construction costs; input manually

Use 2 guide signs for EB direction @ \$100,000 each and \$50,000 for other signs

6' high chain link fence

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab

Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project requires approximately 5.73 Acres of new Right-of-Way

Estimated Project Costs				
I-10 at B-10 TI SAFE AREA				
Project Description:	Construct a safe truck parking only location along I-10 east of the Texas Canyon Rest Area at the exit to B-10 at MP 336.9. The parking area will be between EB I-10 and the exit ramp and will consist of an alternative type pavement lot, lighting w/ solar panels, toilet facilities, highway signage, and trash recptacles.			
Area of Disturbance: (In Acres)	9.75 Acre			
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$561,980	\$561,980
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$56,198	\$56,198
SUBTOTAL – PROJECT DESIGN COSTS				\$ 618,178
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
GRADING ROADWAY FOR PAVEMENT	SY	47,206	\$10	\$472,060
GORE PAVING	SY	0	\$180	\$0
PARKING PAVING	SY	45,226	\$70	\$3,165,820
RAMP PAVING	SY	1,009	\$118	\$119,062
CONSTRUCT ACCESS ROAD	SY	971	\$180	\$174,780
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$221,600	\$221,600
MISCELLANEOUS RDWY WORK- Traffic Signs (Guide signs along highway and other traffic signs)	LS	1	\$500,000	\$500,000
SUBTOTAL - ROADWAY CONSTRUCTION				\$ 4,653,322
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	0		\$0
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
PROVIDE ELECTRICAL TO SITE	LS	0		\$0
SUBTOTAL – INFRASTRUCTURE REHABILITATION				\$ -
OTHER NEW CONSTRUCTION ITEMS				
INSTALL LIGHTING w/ SOLAR PANELS	Each	8	\$5,000.00	\$40,000
INSTALL SECURITY CAMERAS	LS	0		\$0
INSTALL VAULTED TOILET	Each	2	\$350,000.00	\$700,000
INSTALL COMPOSTING TOILET	Each	0		\$0
TRASH RECPTACLES	Each	6	\$1,000.00	\$6,000
INSTALL SIGNS AND DISPLAYS	Each	4	\$25,000.00	\$100,000
INSTALL FENCING	LF	4,016	\$30.00	\$120,480
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SERVICE	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 966,480
SUBTOTAL - CONSTRUCTION LINE ITEMS				\$ 5,619,802
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$561,980	\$561,980
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$449,584	\$449,584
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$56,198	\$56,198
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$561,980	\$561,980
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$1,011,564	\$1,011,564
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ 2,641,307
TOTAL ESTIMATED CONSTRUCTION COSTS				\$ 8,261,109
RIGHT-OF-WAY ACQUISITION (if necessary)	Acre	0		\$0
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$8,879,287

**Designer Notes:**

1. The horizontal curvature of the US 191 ramp at the intersection with the access point from the SAFE lot restricts horizontal sight distance for trucks making a left turn out of the lot. Therefore, access to/from the lot should be restricted to WB I-10 traffic only.

2. The SAFE lot will accommodate 127 truck parking spaces. There are 71 spaces that are accessed off the EB exit ramp (EB I-10) and 56 spaces accessed off the crossroad (WB I-10). Total EB spaces (Sibyl Rd TI and B-10) are 37+71= 108, which exceeds the 86 spaces needed at Texas Canyon Rest Area for 2042. Total WB spaces (US 191 and B-10) are 85+56= 141, which exceeds the 100 spaces needed at Texas Canyon Rest Area for 2042.

Comments

NOTE: For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum from the 2023 Statewide Rest Area Parking Study.

To Be Updated

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E54.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

This is 11" PCCP over 4" AB (From MAG estimate: \$135/SY PCCP + \$8/SY AB=\$143+25% for rural area an small quantity = \$180/SY

This is an alternative to AC pavement-TBD

This is 11" AC over 11" AB (From MAG estimate: \$72/SY AC + \$22/SY AB=\$94 + 25% for rural area and small quantity = \$118/SY

This is PCCP for zero maintenance, same as Gore Paving

If needed, use 5% of construction costs; input manually

Use 4 guide signs for EB and WB direction @ \$100,000 each and \$50,000 for other signs

6' high chain link fence

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab

Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project does NOT require new Right-of-Way

Estimated Project Costs				
I-40 at Hibbard				
Project Description:		Construct EB and WB truck parking areas along I-40 between Winslow and Joseph City at MP 266.4. This is at the site of existing R/W set aside in 1969 for a future rest area and will consist of new exit and entrance ramps, alternative type pavement areas, lighting w/ solar panels, toilet facilities, highway signage, and trash receptacles.		
Area of Disturbance: (In Acres)		Approx. 2 Acres		
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$876,104	\$876,104
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$87,610	\$87,610
SUBTOTAL – PROJECT DESIGN COSTS				\$ 963,714
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
GRADING ROADWAY FOR PAVEMENT	SY	78,912	\$10	\$789,120
GORE PAVING	SY	655	\$180	\$117,900
PARKING PAVING	SY	67,321	\$70	\$4,712,470
RAMP PAVING	SY	10,936	\$118	\$1,290,448
CONSTRUCT ACCESS ROAD	SY	0	\$180	\$0
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$417,200	\$417,200
MISCELLANEOUS RDWY WORK- Traffic Signs (Guide signs along highway and other traffic signs)	LS	1	\$500,000	\$500,000
SUBTOTAL - ROADWAY CONSTRUCTION				\$ 7,827,138
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	0		\$0
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
PROVIDE ELECTRICAL TO SITE	LS	0		\$0
SUBTOTAL – INFRASTRUCTURE REHABILITATION				\$ -
OTHER NEW CONSTRUCTION ITEMS				
INSTALL LIGHTING w/ SOLAR PANEL	Each	8	\$5,000.00	\$40,000
INSTALL SECURITY CAMERAS	LS	0		\$0
INSTALL VAULTED TOILET	Each	2	\$350,000.00	\$700,000
INSTALL COMPOSTING TOILET	Each	0		\$0
TRASH RECEPTACLES	Each	6	\$1,000.00	\$6,000
INSTALL SIGNS AND DISPLAYS	Each	4	\$25,000.00	\$100,000
INSTALL FENCING	LF	2,930	\$30.00	\$87,900
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 933,900
SUBTOTAL - CONSTRUCTION LINE ITEMS				\$ 8,761,038
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$876,104	\$876,104
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$700,883	\$700,883
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$87,610	\$87,610
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$876,104	\$876,104
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$1,576,987	\$1,576,987
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ 4,117,688
TOTAL ESTIMATED CONSTRUCTION COSTS				\$ 12,878,726
RIGHT-OF-WAY ACQUISITION (if necessary)				
Acre	0			\$0
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$13,842,440

**Designer Notes:**  
 1. The number of truck parking spaces provided meets the demand for spaces for 2042; 76 for EB and 82 for WB.

Comments

**NOTE:** For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum from the 2023 Statewide Rest Area Parking Study.

The number of spaces provided have been set to accommodate deficiencies at both the Meteor Crater Rest Area and local clusters of Undesignated Truck Parking interchange ramps. Size of project with new ramps suggests to construct to meet 2042 needs.

To Be Updated

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E54.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

This is 11" PCCP over 4" AB (From MAG estimate: \$135/SY PCCP + \$8/SY AB=\$143 + 25% for rural area and small quantity = \$180/SY

This is an alternative to AC pavement-TBD

This is 11" AC over 11" AB (From MAG estimate: \$72/SY AC + \$22/SY AB=\$94 + 25% for rural area and small quantity = \$118/SY

This is PCCP for zero maintenance, same as Gore Paving

If needed, use 5% of construction costs; input manually

Use 2 guide signs for each direction @ \$100,000 each and \$100,000 for other signs

6' high chain link fence between parking areas and I-40

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab

Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project does NOT require new Right-of-Way

Estimated Project Costs				
I-40 at Crazy Creek				
Project Description:		Construct EB and WB truck parking areas along I-40 between Holbrook and Sanders at MP 321.6. This is at the site of existing R/W set aside in 1969 for a future rest area and will consist of new exit and entrance ramps, alternative type pavement areas, lighting w/ solar panels, toilet facilities, highway signage, and trash receptacles.		
Area of Disturbance: (In Acres)		Approx. 2 Acres		
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$962,355	\$962,355
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$96,236	\$96,236
SUBTOTAL – PROJECT DESIGN COSTS			\$	1,058,591
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
GRADING ROADWAY FOR PAVEMENT	SY	87,210	\$10	\$872,100
GORE PAVING	SY	689	\$180	\$124,020
PARKING PAVING	SY	71,867	\$70	\$5,030,690
RAMP PAVING	SY	14,653	\$118	\$1,729,054
CONSTRUCT ACCESS ROAD	SY	0	\$180	\$0
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$412,790	\$412,790
MISCELLANEOUS RDWY WORK- Traffic Signs (Guide signs along highway and other traffic signs)	LS	1	\$500,000	\$500,000
SUBTOTAL – ROADWAY CONSTRUCTION			\$	8,668,654
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	0		\$0
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
PROVIDE ELECTRICAL TO SITE	LS	0		\$0
SUBTOTAL – INFRASTRUCTURE REHABILITATION			\$	-
OTHER NEW CONSTRUCTION ITEMS				
INSTALL LIGHTING w/ SOLAR PANEL	Each	8	\$5,000.00	\$40,000
INSTALL SECURITY CAMERAS	LS	0		\$0
INSTALL VAULTED TOILET	Each	2	\$350,000.00	\$700,000
INSTALL COMPOSTING TOILET	Each	0		\$0
TRASH RECEPTACLES	Each	6	\$1,000.00	\$6,000
INSTALL SIGNS AND DISPLAYS	Each	4	\$25,000.00	\$100,000
INSTALL FENCING	LF	3,630	\$30.00	\$108,900
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS			\$	954,900
SUBTOTAL - CONSTRUCTION LINE ITEMS			\$	9,623,554
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$962,355	\$962,355
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$769,884	\$769,884
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$96,236	\$96,236
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$962,355	\$962,355
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$1,732,240	\$1,732,240
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS			\$	4,523,070
TOTAL ESTIMATED CONSTRUCTION COSTS			\$	14,146,624
RIGHT-OF-WAY ACQUISITION (if necessary)				
Acre	0			\$0
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$15,205,215

**Designer Notes:**  
 1. The number of truck parking spaces provided meets the demand for spaces for 2042. For EB, the demand is 80 spaces, with 84 shown. For WB, the demand is 82 spaces, with 92 shown.

Comments

NOTE:

For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum from the 2023 Statewide Rest Area Parking Study.

To Be Updated

The number of spaces provided have been set to accommodate deficiencies at both the Painted Cliffs Rest Area and local clusters of Undesignated Truck Parking interchange ramps. Size of project with new ramps suggests to construct to meet 2042 needs.

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E54.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

This is 11" PCCP over 4" AB (From MAG estimate: \$135/SY PCCP + \$8/SY AB=\$143 + 25% for rural area and small quantity = \$180/SY  
 This is an alternative to AC pavement-TBD  
 This is 11" AC over 11" AB (From MAG estimate: \$72/SY AC + \$22/SY AB=\$94 + 25% for rural area and small quantity = \$118/SY  
 This is PCCP for zero maintenance, same as Gore Paving

If needed, use 5% of construction costs; input manually

Use 2 guide signs for each direction @ \$100,000 each and \$100,000 for other signs

6' high chain link fence between parking areas and I-40

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab  
 Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project does NOT require new Right-of-Way

Estimated Project Costs				
I-40 West of Seligman - Near Cross Mountain Rd TI				
Project Description:	Construct EB and WB truck parking areas along I-40 west of Seligman at MP 98.2. This is at the site of existing R/W set aside in 1966 for a future rest area and will consist of new exit and entrance ramps, alternative type pavement areas, lighting w/ solar panels, toilet facilities, highway signage, and trash receptacles.			
Area of Disturbance: (In Acres)	7.7 Acres			
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$523,771	\$523,771
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$52,377	\$52,377
SUBTOTAL – PROJECT DESIGN COSTS				\$ 576,148
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
GRADING ROADWAY FOR PAVEMENT	SY	37,149	\$10	\$371,490
GORE PAVING	SY	656	\$180	\$118,080
PARKING PAVING	SY	25,306	\$70	\$1,771,420
RAMP PAVING	SY	11,187	\$118	\$1,320,066
CONSTRUCT ACCESS ROAD	SY	0	\$180	\$0
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$204,050	\$204,050
MISCELLANEOUS RDWY WORK- Traffic Signs (Guide signs along highway and other traffic signs)	LS	1	\$500,000	\$500,000
MISCELLANEOUS RDWY WORK- Extend 120" Structural Plate Pipe, with mitered ends, borrow, and guard rail.	LS	1	\$120,000	\$120,000
SUBTOTAL - ROADWAY CONSTRUCTION				\$ 4,285,106
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	0		\$0
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
PROVIDE ELECTRICAL TO SITE	LS	0		\$0
SUBTOTAL – INFRASTRUCTURE REHABILITATION				\$ -
OTHER NEW CONSTRUCTION ITEMS				
INSTALL LIGHTING w/ SOLAR PANEL	Each	8	\$5,000.00	\$40,000
INSTALL SECURITY CAMERAS	LS	0		\$0
INSTALL VAULTED TOILET	Each	2	\$350,000.00	\$700,000
INSTALL COMPOSTING TOILET	Each	0		\$0
TRASH RECEPTACLES	Each	4	\$1,000.00	\$4,000
INSTALL SIGNS AND DISPLAYS	Each	4	\$25,000.00	\$100,000
INSTALL FENCING	LF	3,620	\$30.00	\$108,600
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 952,600
SUBTOTAL - CONSTRUCTION LINE ITEMS				\$ 5,237,706
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$523,771	\$523,771
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$419,016	\$419,016
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$52,377	\$52,377
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$523,771	\$523,771
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$942,787	\$942,787
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ 2,461,722
TOTAL ESTIMATED CONSTRUCTION COSTS				\$ 7,699,428
RIGHT-OF-WAY ACQUISITION (if necessary)				
Acres	Acres	0		\$0
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$8,275,575

Designer Notes:  
 1. Estimated needed truck parking spaces is 36 for EB and 36 for WB, for a total of 72 spaces.

Comments

NOTE: For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum from the 2023 Statewide Rest Area Parking Study.

To Be Updated

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E54.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

This is 11" PCCP over 4" AB (From MAG estimate: \$135/SY PCCP + \$8/SY AB=\$143 + 25% for rural area and small quantity = \$180/SY  
 This is an alternative to AC pavement-TBD (For quantity, use 55% of 36,683 SY= 20,176 SY  
 This is 11" AC over 11" AB (From MAG estimate: \$72/SY AC + \$22/SY AB=\$94 + 25% for rural area and small quantity = \$118/SY  
 This is PCCP for zero maintenance, same as Gore Paving

If needed, use 5% of construction costs; input manually

Use 2 guide signs for each direction @ \$100,000 each and \$100,000 for other signs

Extend pipe 19' Rt EB and 26' Lt WB

6' high chain link fence between parking areas and I-40

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab

Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project does NOT require new Right-of-Way

Estimated Project Costs				
I-40 at Dead River				
Project Description:		Construct EB and WB truck parking areas along I-40 between Holbrook and Sanders at MP 315.8. This is at the site of existing R/W set aside in 1969 for a future rest area and will consist of new exit and entrance ramps, alternative type pavement areas, lighting w/ solar panels, toilet facilities, highway signage, and trash receptacles.		
Area of Disturbance: (In Acres)		Approx. 2 Acres		
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
PROJECT SCOPING				
SCOPING COSTS				
Scoping has been completed - No Scoping Costs				
SUBTOTAL – PROJECT SCOPING COSTS				\$0
SCOPING LEVEL ESTIMATED DESIGN COSTS				
DESIGN COSTS				
PS&E's - Plans, Special Provisions, Cost Estimates & Schedules (10%-20% of construction cost.)	LS	1	\$461,660	\$461,660
STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, 1% of construction cost) <i>Enter \$0 in Unit Price column if none required.</i>	LS	1	\$46,166	\$46,166
SUBTOTAL – PROJECT DESIGN COSTS				\$ 507,826
SCOPING LEVEL ESTIMATED CONSTRUCTION COSTS				
ROADWAY CONSTRUCTION				
GRADING ROADWAY FOR PAVEMENT	SY	40,000	\$10	\$400,000
GORE PAVING	SY	650	\$180	\$117,000
PARKING PAVING	SY	22,262	\$70	\$1,558,340
RAMP PAVING	SY	8,109	\$118	\$956,862
CONSTRUCT ACCESS ROAD	SY	0	\$180	\$0
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, 5% of constr. costs) <i>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</i>	LS	1	\$176,600	\$176,600
MISCELLANEOUS RDWY WORK- Traffic Signs (Guide signs along highway and other traffic signs)	LS	1	\$500,000	\$500,000
SUBTOTAL - ROADWAY CONSTRUCTION				\$ 3,708,802
INFRASTRUCTURE REHABILITATION				
REHAB RAMADAS	LS	0		\$0
REHAB RESTROOM BLDG	LS	0		\$0
REHAB WELL PUMP HOUSE	LS	0		\$0
REHAB CARETAKER'S RESIDENCE	LS	0		\$0
REHAB PAVEMENT	LS	0		\$0
REHAB SIDEWALKS	LS	0		\$0
REMOVE RESTROOM BLDG	Each	0		\$0
UPGRADE INTERIOR LIGHTING	LS	0		\$0
REHAB STRUCTURAL	LS	0		\$0
REHAB MECHANICAL	LS	0		\$0
PROVIDE ELECTRICAL TO SITE	LS	0		\$0
SUBTOTAL – INFRASTRUCTURE REHABILITATION				\$ -
OTHER NEW CONSTRUCTION ITEMS				
INSTALL LIGHTING w/ SOLAR PANEL	Each	8	\$5,000.00	\$40,000
INSTALL SECURITY CAMERAS	LS	0		\$0
INSTALL VAULTED TOILET	Each	2	\$350,000.00	\$700,000
INSTALL COMPOSTING TOILET	Each	0		\$0
TRASH RECEPTACLES	Each	6	\$1,000.00	\$6,000
INSTALL SIGNS AND DISPLAYS	Each	4	\$25,000.00	\$100,000
INSTALL FENCING	LF	2,060	\$30.00	\$61,800
NEW ADA IMPROVEMENTS	LS	0		\$0
INSTALL WIRELESS INTERNET SYSTEM	Each	0		\$0
INSTALL SOLAR PANEL SYSTEM	Each	0		\$0
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 907,800
SUBTOTAL - CONSTRUCTION LINE ITEMS				\$ 4,616,602
MOBILIZATION AND ADMINISTRATION COSTS				
CONTRACTOR MOBILIZATION (Typically 10% of construction cost)	LS	1	\$461,660	\$461,660
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$369,328	\$369,328
CONSTRUCTION SURVEY & LAYOUT (Typically 1% of construction cost)	LS	1	\$46,166	\$46,166
CONSTRUCTION CONTINGENCIES (Typically 10% of construction cost)	LS	1	\$461,660	\$461,660
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$830,988	\$830,988
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ 2,169,803
TOTAL ESTIMATED CONSTRUCTION COSTS				\$ 6,786,405
RIGHT-OF-WAY ACQUISITION (if necessary)	Acre	0		\$0
TOTAL ESTIMATED PROJECT COST (All subtotals)				\$7,294,231

**Designer Notes:**  
 1. The number of truck parking spaces provided meets the demand for spaces for 2042. For EB, the demand is 80 spaces, with 84 shown. For WB, the demand is 82 spaces, with 92 shown.

Comments

NOTE:

For an explanation of the generic basis of design, basis of construction item units, and derivation of unit costs, please see the ***Basis of Design and Unit Costs*** memorandum from the 2023 Statewide Rest Area Parking Study.

To Be Updated

The number of spaces provided have been set to accommodate deficiencies at both the Painted Cliffs Rest Area and local clusters of Undesignated Truck Parking interchange ramps. Size of project with new ramps suggests to construct to meet 2042 needs.

To ID need for SWPPP: Over 1 acre requires SWPPP.

Use 10 % of the cost from E54.

If needed, use 1% of the construction cost.

Total costs are for complete-in-place roadway construction

This is 11" PCCP over 4" AB (From MAG estimate: \$135/SY PCCP + \$8/SY AB=\$143 + 25% for rural area and small quantity = \$180/SY  
 This is an alternative to AC pavement-TBD  
 This is 11" AC over 11" AB (From MAG estimate: \$72/SY AC + \$22/SY AB=\$94 + 25% for rural area and small quantility = \$118/SY  
 This is PCCP for zero maintenance, same as Gore Paving

If needed, use 5% of construction costs; input manually

Use 2 guide signs for each direction @ \$100,000 each and \$100,000 for other signs

6' high chain link fence between parking areas and I-40

This is the sum of Construction SUBTOTALS above

The 10% is based on Mobilization cost from Sunset Point RA Rehab  
 Use 5% for parking spaces only. Use 8% is a new ramp is needed.

Use 10% due to level of detail of this estimate

This project does NOT require new Right-of-Way