

PA-06-TX-4223-PW-00988(0) <u>P</u>	
Applicant Name:	Application Title:
HIDALGO (COUNTY)	HID009C - Damaged Roads / Asphalt and Caliche
Period of Performance Start:	Period of Performance End:
05-29-2015	11-29-2016

Bundle Reference # (Amendment #)	Date Awarded
PA-06-TX-4223-PW-00988(1062)	02-02-2016

Subgrant Application - FEMA Form 90-91

Note: The Effective Cost Share for this application is 75%

FEDERAL EMERGENCY MANAGEMENT AGENCY PROJECT WORKSHEET					
DISASTER		PROJECT NO.	PA ID NO.	DATE	CATEGORY
FEMA	4223 - DR -TX	HID009C	215-99215-00	01-04-2016	C
APPLICANT: HIDALGO (COUNTY)				WORK COMPLETE AS OF:	
				12-09-2015 : 0 %	
Site 1 of 8					
DAMAGED FACILITY:			COUNTY: Hidalgo		
Location 14					
LOCATION:				LATITUDE:	LONGITUDE:
PA-06-TX-4223-PW-00988(0): Site # 14 Lat.: 26.24091 Long.: -98.12566 to Lat.: 26.25705 Long.: -98.12289 South Cesar Chavez Rd. Starting at Owassa Rd. and travelling North ending at address 4116. See attached pictures labelled as Site 14 photos.				26.24091	-98.12566
Current Version:				26.25705	-98.12289
DAMAGE DESCRIPTION AND DIMENSIONS:					
PA-06-TX-4223-PW-00988(0): DDD					
During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Four (4) Weeks. Water saturated the base material (Caliche) and caused the road wear surface (Asphalt) to severely undulate, rut and delaminate resulting in the need to replace the following:					
<ul style="list-style-type: none"> • Dimensions 5808 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 785.59 CY • Asphalt Wear Surface - Dimensions 5808 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 785.59 CY 					
This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA TAC Technical Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).					
End of DDD					
Current Version:					
SCOPE OF WORK:					
PA-06-TX-4223-PW-00988(0): SOW					
Work to Be Completed					
The Applicant will use Force Account Labor [using actual hourly rates (including Fringes)], Force Account Equipment (using FEMA Cost Codes), and Force Account Materials [using recent local historical costs (current contracts for Force Account Material vendors and invoices attached)] to perform and execute the Work to Be Completed. The FEMA TAC Technical Specialist formulating this Project and Sub Grant Application has worked closely with The Applicants Director of Roads and Bridges to benchmark Labor, Equipment and Material requirements based on production rates obtained from recent historical data supplied by the Applicant for similar work in scope and volume					

using Force Account assets; and, after concurring that the Scope, Labor, Equipment and Material quantities and costs were reasonable, In a unified effort, estimated the costs of all work tasks contained in this Scope of work. A copy of the estimate formulated for this site is attached to this Project. This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I).

Scope Items

Remove and Haul existing materials for repurposing to Applicants Storage Yard facility (Applicant will mill broken asphalt and Caliche for future use as patch materials):

- Caliche - Dimensions 5808 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 785.59 CY
- Asphalt Wear Surface - Dimensions 5808 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 785.59 CY

Demo and Haul Away

	Truck Loads	Dump Truck Hours	Hours Per Each of 5 Trucks
Caliche	56	56.11	
Asphalt	56	56.11	
Total	112	22	

Pick up materials from vendor locations and haul to site, Install and grade base (2 Inch deep Caliche)to existing 2" base (which will restore to a 4 Inch base that preexisted the event, Compact base, install Tack Coat (emulsified asphalt), install, and roll in wear surface (2 Inch of Hot Asphalt Wear Surface)

Mobilize Pick up and deliver material in place

	Truck Loads	Dump Truck Hours	Hours Per Each of 5 Trucks
Caliche	56.11	56.11	
Asphalt	56.11	56.11	
Total	112	22	

Total Truck Hours Needed per truck (Demo and Install) 44.89

Estimated Costs

Material

- Caliche - Actual F/A Cost - Dimensions 5808 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 785.59 CY @ 3,500 Lbs./CY => 1,374.78 Tons @ \$3.25 = \$4,468.02
- Asphalt including emulsified tack coat - Actual F/A Cost - Dimensions 5808 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 785.59 CY @ 4,212 Lbs./CY => 1,654.44 Tons @ \$58.50 = \$96,784.95

Equipment and Labor

- Using F/A Equipment (Grader with 14 Ft. Moldboard - FEMA CC 8331) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 5808 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep
8.3 Hrs. Labor @ \$28.72 = \$238.38
8.3 Hrs. FA Equip @ 84.00 = \$697.20
- Using F/A Equipment (Paver - FEMA CC 8432) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 5808 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep
15.5 Hrs. Labor @ \$20.06 = \$310.93
15.5 Hrs. FA Equip @ 135.00 = \$2,092.50
- Using F/A Equipment (Dump Truck # 1 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
45 Hrs. Labor @ \$20.80 = \$936.00
45 Hrs. FA Equip @ 75.00 = \$3,375.00
- Using F/A Equipment (Dump Truck # 2 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
45 Hrs. Labor @ \$20.80 = \$936.00
45 Hrs. FA Equip @ 75.00 = \$3,375.00
- Using F/A Equipment (Dump Truck # 3 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
45 Hrs. Labor @ \$20.80 = \$936.00
45 Hrs. FA Equip @ 75.00 = \$3,375.00
- Using F/A Equipment (Dump Truck # 4 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
45 Hrs. Labor @ \$20.80 = \$936.00
45 Hrs. FA Equip @ 75.00 = \$3,375.00
- Using F/A Equipment (Dump Truck # 5 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.

45 Hrs. Labor @ \$20.80 = \$936.00
 45 Hrs. FA Equip @ 75.00 = \$3,375.00

- Pickup Truck 1 - 1/2 Ton - FEMA CC 8801
 2 Hrs. Labor @ \$17.98 = \$35.96
 2 Hrs. FA Equip @ 19.95 = \$39.90

- Pickup Truck 2 - 1/2 Ton - FEMA CC 8801
 2 Hrs. Labor @ \$17.98 = \$35.96
 2 Hrs. FA Equip @ 19.95 = \$39.90

- Using F/A Equipment (Compactor - Vibratory Drum Roller - FEMA CC 8222) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 5808 Ft. long by 22 Ft. Wide by 0.333 Ft. (4 inch) deep
 8.3 Hrs. Labor @ \$19.40 = \$161.02
 8.3 Hrs. FA Equip @ 28.75 = \$238.63

- Using F/A Equipment (Pneumatic Roller - 9 wheels - FEMA CC 8223) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 5808 Ft. long by 22 Ft. Wide by 0.333 Ft. (4 inch) deep
 6.8 Hrs. Labor @ \$19.40 = \$131.92
 6.8 Hrs. FA Equip @ 33.75 = \$229.50

- Using F/A Equipment (Front End Loader - 5 CY Capacity - FEMA CC 8395) and F/A Labor (actual hourly rate including fringes), scrape up road surface and load dump trucks. - Dimensions 5808 Ft. long by 22 Ft. Wide by 0.333 Ft. (4 inch) deep
 18.4 Hrs. Labor @ \$21.21 = \$390.26
 18.4 Hrs. FA Equip @ 74.50 = \$1,370.80

- Using F/A Equipment (Haul Truck with trailer- FEMA CC 8795) and F/A Labor (actual hourly rate including fringes), for transporting, compactors, rollers, back hoes and front end loaders to and from jobsite.
 2 Hrs. Labor @ \$19.89 = \$39.78
 2Hrs. FA Equip @ 41.00 = \$82.00

- Using F/A Equipment (Water Tanker Truck - 4000 Gal. Capacity - FEMA CC 8781) and F/A Labor (actual hourly rate including fringes), to transport water and emulsified asphalt to jobsite and apply liquids (water to Cliché and Asphalt for Tack Coating) to road base materials and surfaces.
 15.5 Hrs. Labor @ \$20.80 = \$322.40
 15.5 Hrs. FA Equip @ 51.25 = \$794.38

- Traffic Safety - Flagman # 1 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
 25.2 Hrs. Labor @ \$18.44 = \$464.69

- Traffic Safety - Flagman # 2 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
 25.2 Hrs. Labor @ \$20.28 = \$511.06

Summary of Estimated Costs

F/A Labor \$7323.81
 F/A Equipment \$22459.80
 F/A Materials \$101252.97

Total this Project: \$131036.59
 End of SOW

Current Version:

Site 2 of 8

DAMAGED FACILITY:

COUNTY: Hidalgo

Location 15

LOCATION:

LATITUDE:
 26.278465
 26.28296

LONGITUDE:
 -98.065779
 -98.09391

PA-06-TX-4223-PW-00988(0):
 Site # 15 Lat.: 26.28296 Long.: -98.09391 Ending at Lat.: 26.278465 Long.: -98.065779 Curve Road starting at Tower Road and ending at Valverde Road. See attached pictures labelled as Site 15 photos.

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-06-TX-4223-PW-00988(0):
 DDD
 During the Declared event period, running floodwaters from the overtopped Curry Drainage Canal washed away this Caliche Road surface

carrying away 4 inches of Caliche road material; additionally running floodwaters caused severe rutting and scouring. Four (4) Inches depth of Caliche needs to be replaced and graded over this road resulting in the need to replace the following:

- Caliche - Dimensions 9500 Ft. long by 20 Ft. Wide by 0.333 Ft. (4 inch) deep = 2,343.33 CY

This road is recommended as eligible damages, the rationale for this recommendation is based on the FEMA TAC Technical Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these Caliche wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).

End of DDD

Current Version:

SCOPE OF WORK:

PA-06-TX-4223-PW-00988(0):

SOW

Work to Be Completed

The Applicant will use Force Account Labor [using actual hourly rates (including Fringes)], Force Account Equipment (using FEMA Cost Codes), and Force Account Materials [using recent local historical costs (current contracts for Force Account Material vendors and invoices attached)] to perform and execute the Work to Be Completed. The FEMA TAC Technical Specialist formulating this Project and Sub Grant Application has worked closely with The Applicants Director of Roads and Bridges to benchmark Labor, Equipment and Material requirements based on production rates obtained from recent historical data supplied by the Applicant for similar work in scope and volume using Force Account assets; and, after concurring that the Scope, Labor, Equipment and Material quantities and costs were reasonable, In a unified effort, estimated the costs of all work tasks contained in this Scope of work. A copy of the estimate formulated for this site is attached to this Project. This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I).

Scope Items

Pick up from vendor, haul and spread at jobsite, grade in and compact material.

- Caliche - Dimensions 9500 Ft. long by 20 Ft. Wide by 0.333 Ft. (4 inch) deep = 2,343.33 CY

Pick up materials from vendor locations and haul to site, Install and grade road surface (4 Inch deep Caliche) which will restore to a 4 Inch deep road surface that preexisted the event, Compact base, install, and roll in caliche wear surface.

Mobilize Pick up and deliver material in place

	Truck Loads	Dump Truck Hours	Hours Per	Each of 5 Trucks
Caliche	167.38	167.38		

Total 167 33.48

Total Truck Hours Needed per truck (Demo and Install) 33.48

Estimated Costs

Material

- Caliche - Actual F/A Cost - Dimensions 9500 Ft. long by 20 Ft. Wide by 0.333 Ft. (4 inch) deep = 2,343.33 CY@ 3,500 Lbs./CY => 4,100.83 Tons @ \$3.25 = \$13,327.71

Equipment and Labor

- Using F/A Equipment (Grader with 14 Ft. Moldboard - FEMA CC 8331) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 9500 Ft. long by 20 Ft. Wide by 0.333 Ft. (4 inch) deep

11.8 Hrs. Labor @ \$28.72 = \$338.90

11.8 Hrs. FA Equip @ 84.00 = \$991.20

- Using F/A Equipment (Dump Truck # 1 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.

33.48 Hrs. Labor @ \$20.80 = \$696.38

33.48 Hrs. FA Equip @ 75.00 = \$2,511.00

- Using F/A Equipment (Dump Truck # 2 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.

33.48 Hrs. Labor @ \$20.80 = \$696.38

33.48 Hrs. FA Equip @ 75.00 = \$2,511.00

- Using F/A Equipment (Dump Truck # 3 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.

33.48 Hrs. Labor @ \$20.80 = \$696.38

33.48 Hrs. FA Equip @ 75.00 = \$2,511.00

- Using F/A Equipment (Dump Truck # 4 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load,

haul and dump.

33.48 Hrs. Labor @ \$20.80 = \$696.38
 33.48 Hrs. FA Equip @ 75.00 = \$2,511.00

- Using F/A Equipment (Dump Truck # 5 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.

33.48 Hrs. Labor @ \$20.80 = \$696.38
 33.48 Hrs. FA Equip @ 75.00 = \$2,511.00

- Pickup Truck 1 - 1/2 Ton - FEMA CC 8801

2 Hrs. Labor @ \$17.98 = \$35.96
 2 Hrs. FA Equip @ 19.95 = \$39.90

- Pickup Truck 2 - 1/2 Ton - FEMA CC 8801

2 Hrs. Labor @ \$17.98 = \$35.96
 2 Hrs. FA Equip @ 19.95 = \$39.90

- Using F/A Equipment (Compactor - Vibratory Drum Roller - FEMA CC 8222) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 9500 Ft. long by 20 Ft. Wide by 0.333 Ft. (4 inch) deep

11.8 Hrs. Labor @ \$19.40 = \$228.92
 11.8 Hrs. FA Equip @ 28.75 = \$339.25

- Using F/A Equipment (Pneumatic Roller - 9 wheels - FEMA CC 8223) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 9500 Ft. long by 20 Ft. Wide by 0.333 Ft. (4 inch) deep

9.6 Hrs. Labor @ \$19.40 = \$186.24
 9.6 Hrs. FA Equip @ 33.75 = \$324.00

- Using F/A Equipment (Haul Truck with trailer- FEMA CC 8795) and F/A Labor (actual hourly rate including fringes), for transporting, compactors, rollers, back hoes and front end loaders to and from jobsite.

2 Hrs. Labor @ \$19.89 = \$39.78
 2Hrs. FA Equip @ 41.00 = \$82.00

- Using F/A Equipment (Water Tanker Truck - 4000 Gal. Capacity - FEMA CC 8781) and F/A Labor (actual hourly rate including fringes), to transport water to jobsite and apply liquids (water to Cliché) to road base materials and surfaces.

22.6 Hrs. Labor @ \$20.80 = \$470.08
 22.6 Hrs. FA Equip @ 51.25 = \$1,158.25

- Traffic Safety - Flagman # 1 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)

36.5 Hrs. Labor @ \$18.44 = \$673.06

- Traffic Safety - Flagman # 2 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)

36.5 Hrs. Labor @ \$20.28 = \$740.22

Summary of Estimated Costs

F/A Labor \$6232.50
 F/A Equipment \$15529.50
 F/A Materials \$13327.71

Total this Project: \$35089.70
 End of SOW

Current Version:

Site 3 of 8

DAMAGED FACILITY:

Location 16

COUNTY: Hidalgo

LOCATION:

PA-06-TX-4223-PW-00988(0):
 Site # 16 Lat.: 26.267971 Long.: -98.109444 to Lat.: 26.26945 Long.: -98.12053 Canton Road starting at Alamo Road and Ending at Caesar Chavez Road. See attached pictures labelled as Site 16 photos.

LATITUDE:

26.267971
 26.26945

LONGITUDE:

-98.109444
 -98.12053

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-06-TX-4223-PW-00988(0):

DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Four (4) Weeks. Water saturated the base material (Caliche) and caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. Additionally, a section of drainage ditch on one side of the road (3696 LF) is filled with mud and needs to be cleared. To restore the road to pre event form and function, the Applicant will the need to replace the following:

- Caliche - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.333 Ft. (4 inch) deep = 1,094.02 CY
- Asphalt Wear Surface - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.166 Ft. (2 inch) deep = 545.37 CY

Additional Work Needed:

- Ditch Cleaning – 3696 LF

This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA TAC Technical Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).

End of DDD

Current Version:

SCOPE OF WORK:

PA-06-TX-4223-PW-00988(0):

SOW

Work to Be Completed

The Applicant will use Force Account Labor [using actual hourly rates (including Fringes)], Force Account Equipment (using FEMA Cost Codes), and Force Account Materials [using recent local historical costs (current contracts for Force Account Material vendors and invoices attached)] to perform and execute the Work to Be Completed. The FEMA TAC Technical Specialist formulating this Project and Sub Grant Application has worked closely with The Applicants Director of Roads and Bridges to benchmark Labor, Equipment and Material requirements based on production rates obtained from recent historical data supplied by the Applicant for similar work in scope and volume using Force Account assets; and, after concurring that the Scope, Labor, Equipment and Material quantities and costs were reasonable, In a unified effort, estimated the costs of all work tasks contained in this Scope of work. A copy of the estimate formulated for this site is attached to this Project. This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I).

Scope Items

Remove and Haul existing materials for repurposing to Applicants Storage Yard facility (Applicant will mill broken asphalt and Caliche for future use as patch materials):

- Caliche - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.333 Ft. (4 inch) deep = 1,094.02 CY
- Asphalt Wear Surface - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.166 Ft. (2 inch) deep = 545.37 CY

Demo and Haul Away

	Truck Loads	Dump Truck Hours	Hours Per Each of 5 Trucks
Caliche	78	78.14	
Asphalt	39	38.95	
Total	117	23	

Pick up materials from vendor locations and haul to site, Install and grade base (4 Inch deep Caliche) which will restore to a 4 Inch base that preexisted the event, Compact base, install Tack Coat (emulsified asphalt), install, and roll in wear surface (2 Inch of Hot Asphalt Wear Surface)

Mobilize Pick up and deliver material in place

	Truck Loads	Dump Truck Hours	Hours Per Each of 5 Trucks
Caliche	78.14	78.14	
Asphalt	38.95	38.95	
Total	117	23	

Total Truck Hours Needed per truck (Demo and Install) 46.84

Estimated Costs

Material

- Caliche - Actual F/A Cost - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.333 Ft. (4 inch) deep = 1,094.02 CY @ 3,500 Lbs./CY => 1,914.53 Tons @ \$3.25 = \$6,222.22
- Asphalt including emulsified tack coat - Actual F/A Cost - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.166 Ft. (2 inch) deep = 545.37 CY @ 4,212 Lbs./CY => 1,148.54 Tons @ \$58.50 = \$67,189.55

Equipment and Labor

- Using F/A Equipment (Grader with 14 Ft. Moldboard - FEMA CC 8331) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.333 Ft. (4 inch) deep
6 Hrs. Labor @ \$28.72 = \$172.32
6 Hrs. FA Equip @ 84.00 = \$504.00

- Using F/A Equipment (Paver - FEMA CC 8432) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.166 Ft. (2 inch) deep
11.1 Hrs. Labor @ \$20.06 = \$222.67
11.1 Hrs. FA Equip @ 135.00 = \$1,498.50
 - Using F/A Equipment (Dump Truck # 1 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
46.84 Hrs. Labor @ \$20.80 = \$974.27
46.84 Hrs. FA Equip @ 75.00 = \$3,513.00
 - Using F/A Equipment (Dump Truck # 2 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
46.84 Hrs. Labor @ \$20.80 = \$974.27
46.84 Hrs. FA Equip @ 75.00 = \$3,513.00
 - Using F/A Equipment (Dump Truck # 3 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
46.84 Hrs. Labor @ \$20.80 = \$974.27
46.84 Hrs. FA Equip @ 75.00 = \$3,513.00
 - Using F/A Equipment (Dump Truck # 4 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
46.84 Hrs. Labor @ \$20.80 = \$974.27
46.84 Hrs. FA Equip @ 75.00 = \$3,513.00
 - Using F/A Equipment (Dump Truck # 5 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
46.84 Hrs. Labor @ \$20.80 = \$974.27
46.84 Hrs. FA Equip @ 75.00 = \$3,513.00
 - Pickup Truck 1 - 1/2 Ton - FEMA CC 8801
2 Hrs. Labor @ \$17.98 = \$35.96
2 Hrs. FA Equip @ 19.95 = \$39.90
 - Pickup Truck 2 - 1/2 Ton - FEMA CC 8801
2 Hrs. Labor @ \$17.98 = \$35.96
2 Hrs. FA Equip @ 19.95 = \$39.90
 - Using F/A Equipment (Compactor - Vibratory Drum Roller - FEMA CC 8222) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.500 Ft. (6 inch) deep
6 Hrs. Labor @ \$19.40 = \$116.40
6 Hrs. FA Equip @ 28.75 = \$172.50
 - Using F/A Equipment (Pneumatic Roller - 9 wheels - FEMA CC 8223) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.500 Ft. (6 inch) deep
5 Hrs. Labor @ \$19.40 = \$97.00
5 Hrs. FA Equip @ 33.75 = \$168.75
 - Using F/A Equipment (Front End Loader - 5 CY Capacity - FEMA CC 8395) and F/A Labor (actual hourly rate including fringes), scrape up road surface and load dump trucks. - Dimensions 3696 Ft. long by 24 Ft. Wide by 0.500 Ft. (6 inch) deep
13 Hrs. Labor @ \$21.21 = \$275.73
13 Hrs. FA Equip @ 74.50 = \$968.50
 - Using F/A Equipment (Haul Truck with trailer- FEMA CC 8795) and F/A Labor (actual hourly rate including fringes), for transporting, compactors, rollers, back hoes and front end loaders to and from jobsite.
2 Hrs. Labor @ \$19.89 = \$39.78
2 Hrs. FA Equip @ 41.00 = \$82.00
 - Using F/A Equipment (Water Tanker Truck - 4000 Gal. Capacity - FEMA CC 8781) and F/A Labor (actual hourly rate including fringes), to transport water and emulsified asphalt to jobsite and apply liquids (water to Cliché and Asphalt for Tack Coating) to road base materials and surfaces.
11.1 Hrs. Labor @ \$20.80 = \$230.88
11.1 Hrs. FA Equip @ 51.25 = \$568.88
 - Traffic Safety - Flagman # 1 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
18.1 Hrs. Labor @ \$18.44 = \$333.76
 - Traffic Safety - Flagman # 2 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
18.1 Hrs. Labor @ \$20.28 = \$367.07
- Ditch Cleaning – 3696 LF using FEMA Cost Code 3070
3696 LF @ \$3.40 per LF = \$ 12,566.40

Summary of Estimated Costs

F/A Labor \$6,800.35
 F/A Equipment \$21,607.93
 F/A Materials \$73411.77
 Ditch Cleaning \$12566.40
 Total this Project: \$114386.45
 End of SOW

Current Version:

Site 4 of 8

DAMAGED FACILITY:

COUNTY: Hidalgo

Location 17

LOCATION:

LATITUDE:

LONGITUDE:

26.29464
26.29544

-98.06334
-98.06306

PA-06-TX-4223-PW-00988(0):
 Site # 17 Lat.: 26.29544 Long.: -98.06306 to Lat.: 26.29464 Long.: -98.06334 Corin Street. See attached pictures labelled as Site 17 photos.

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-06-TX-4223-PW-00988(0):

DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Four (4) Weeks. Water saturated the base material (Caliche) and caused the road wear surface (Asphalt) to severely undulate, rut and delaminate resulting in the need to replace the following:

- Caliche - Dimensions 310 Ft. long by 28 Ft. Wide by 0.330 Ft. (4 inch) deep = 106.09 CY
- Asphalt Wear Surface - Dimensions 310 Ft. long by 28 Ft. Wide by 0.166 Ft. (2 inch) deep = 53.37 CY

This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA TAC Technical Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).

End of DDD

Current Version:

SCOPE OF WORK:

PA-06-TX-4223-PW-00988(0):

SOW

Work to Be Completed

The Applicant will use Force Account Labor [using actual hourly rates (including Fringes)], Force Account Equipment (using FEMA Cost Codes), and Force Account Materials [using recent local historical costs (current contracts for Force Account Material vendors and invoices attached)] to perform and execute the Work to Be Completed. The FEMA TAC Technical Specialist formulating this Project and Sub Grant Application has worked closely with The Applicants Director of Roads and Bridges to benchmark Labor, Equipment and Material requirements based on production rates obtained from recent historical data supplied by the Applicant for similar work in scope and volume using Force Account assets; and, after concurring that the Scope, Labor, Equipment and Material quantities and costs were reasonable, in a unified effort, estimated the costs of all work tasks contained in this Scope of work. A copy of the estimate formulated for this site is attached to this Project. This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I).

Scope Items

Remove and Haul existing materials for repurposing to Applicants Storage Yard facility (Applicant will mill broken asphalt and Caliche for future use as patch materials):

- Caliche - Dimensions 310 Ft. long by 28 Ft. Wide by 0.330 Ft. (4 inch) deep = 106.09 CY
- Asphalt Wear Surface - Dimensions 310 Ft. long by 28 Ft. Wide by 0.166 Ft. (2 inch) deep = 53.37 CY

Demo and Haul Away

Truck Loads	Dump Truck Hours	Hours Per Each of 2 Trucks
Caliche 8	7.58	
Asphalt 4	3.81	
Total 11	6	

Pick up materials from vendor locations and haul to site, Install and grade base (4 Inch deep Caliche) which will restore to a 4 Inch base that preexisted the event, Compact base, install Tack Coat (emulsified asphalt), install, and roll in wear surface (2 Inch of Hot Asphalt Wear Surface)

Mobilize Pick up and deliver material in place

Truck Loads	Dump Truck Hours	Hours Per	Each of 2 Trucks
Caliche 7.58	7.58		
Asphalt 3.81	3.81		
Total 11.6			

Total Truck Hours Needed per truck (Demo and Install) 11.39

Estimated Costs

Material

- Caliche - Actual F/A Cost - Dimensions 310 Ft. long by 28 Ft. Wide by 0.330 Ft. (4 inch) deep = 106.09 CY @ 3,500 Lbs./CY => 185.66 Tons @ \$3.25 = \$603.38
- Asphalt including emulsified tack coat - Actual F/A Cost - Dimensions 310 Ft. long by 28 Ft. Wide by 0.166 Ft. (2 inch) deep = 53.37 CY @ 4,212 Lbs./CY => 112.39 Tons @ \$58.50 = \$6,574.74

Equipment and Labor

- Using F/A Equipment (Grader with 14 Ft. Moldboard - FEMA CC 8331) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 310 Ft. long by 28 Ft. Wide by 0.330 Ft. (4 inch) deep
1.5 Hrs. Labor @ \$28.72 = \$43.08
1.5 Hrs. FA Equip @ 84.00 = \$126.00
- Using F/A Equipment (Paver - FEMA CC 8432) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 310 Ft. long by 28 Ft. Wide by 0.166 Ft. (2 inch) deep
2 Hrs. Labor @ \$20.06 = \$40.12
2 Hrs. FA Equip @ 135.00 = \$270.00
- Using F/A Equipment (Dump Truck # 1 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
11.39 Hrs. Labor @ \$20.80 = \$236.91
11.39 Hrs. FA Equip @ 75.00 = \$854.25
- Using F/A Equipment (Dump Truck # 2 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
11.39 Hrs. Labor @ \$20.80 = \$236.91
11.39 Hrs. FA Equip @ 75.00 = \$854.25
- Pickup Truck 1 - 1/2 Ton - FEMA CC 8801
2 Hrs. Labor @ \$17.98 = \$35.96
2 Hrs. FA Equip @ 19.95 = \$39.90
- Pickup Truck 2 - 1/2 Ton - FEMA CC 8801
2 Hrs. Labor @ \$17.98 = \$35.96
2 Hrs. FA Equip @ 19.95 = \$39.90
- Using F/A Equipment (Compactor - Vibratory Drum Roller - FEMA CC 8222) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 310 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep
1.5 Hrs. Labor @ \$19.40 = \$29.10
1.5 Hrs. FA Equip @ 28.75 = \$43.1
- Using F/A Equipment (Pneumatic Roller - 9 wheels - FEMA CC 8223) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 310 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep
1.4 Hrs. Labor @ \$19.40 = \$27.16
1.4 Hrs. FA Equip @ 33.75 = \$47.25
- Using F/A Equipment (Front End Loader - 5 CY Capacity - FEMA CC 8395) and F/A Labor (actual hourly rate including fringes), scrape up road surface and load dump trucks. - Dimensions 310 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep
2.2 Hrs. Labor @ \$21.21 = \$46.66
2.2 Hrs. FA Equip @ 74.50 = \$163.90
- Using F/A Equipment (Haul Truck with trailer- FEMA CC 8795) and F/A Labor (actual hourly rate including fringes), for transporting, compactors, rollers, back hoes and front end loaders to and from jobsite.
2 Hrs. Labor @ \$19.89 = \$39.78
2Hrs. FA Equip @ 41.00 = \$82.00
- Using F/A Equipment (Water Tanker Truck - 4000 Gal. Capacity - FEMA CC 8781) and F/A Labor (actual hourly rate including fringes), to transport water and emulsified asphalt to jobsite and apply liquids (water to Caliche and Asphalt for Tack Coating) to road base materials and surfaces.
2 Hrs. Labor @ \$20.80 = \$41.60
2 Hrs. FA Equip @ 51.25 = \$102.50
- Traffic Safety - Flagman # 1 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing

safety monitoring at jobsites)
3.6 Hrs. Labor @ \$18.44 = \$66.38

- Traffic Safety - Flagman # 2 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
3.6 Hrs. Labor @ \$20.28 = \$73.01

Summary of Estimated Costs

F/A Labor \$954.10
F/A Equipment \$2623.08
F/A Materials \$7178.12

Total this Project: \$10755.29
End of SOW

Current Version:

Site 5 of 8

DAMAGED FACILITY:

COUNTY: Hidalgo

Location 18 A and 18 B

LOCATION:

PA-06-TX-4223-PW-00988(0):
Site # 18A Lat.: 26.30356 Long.: -98.06404 to Lat.: 26.30891 Long.: -98.0631 Valverde Road between State highway 107 and Mile 17 1/2 Road. See attached pictures labelled as Site 18A photos.
Site # 18B Lat.: 26.31417 Long -98.06216 to Lat.: 26.3161 Long.: -98.06182 Valverde Road Between 17 1/2 mile Road and Rogers Road. See attached pictures labelled as Site 18B photos.

LATITUDE:

26.30356
26.30891
26.31417
26.3161

LONGITUDE:

-98.06404
-98.0631
-98.06216
-98.06182

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-06-TX-4223-PW-00988(0):

DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged these Two (2) sections of paved roadway for a period of Three (3) Weeks. Water saturated the base material (Caliche) and caused the road base (Caliche) and wear surface (Asphalt) to severely undulate, rut and delaminate causing damage to the following:

18A

- Caliche - Dimensions 1584 Ft. long by 22 Ft. Wide by 0.330 Ft. (4 inch) deep = 425.92 CY
- Asphalt Wear Surface - Dimensions 1584 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 214.25 CY

18B

Caliche - Dimensions 600 Ft. long by 22 Ft. Wide by 0.330 Ft. (4 inch) deep = 161.33 CY
Asphalt Wear Surface - Dimensions 600 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 81.16 CY

This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA TAC Technical Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages at are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).

End of DDD

Current Version:

SCOPE OF WORK:

PA-06-TX-4223-PW-00988(0):

SOW

Work to Be Completed

18AB Combined – Two (2) Sites

The Applicant will use Force Account Labor [using actual hourly rates (including Fringes)], Force Account Equipment (using FEMA Cost Codes), and Force Account Materials [using recent local historical costs (current contracts for Force Account Material vendors and invoices attached)] to perform and execute the Work to Be Completed. The FEMA TAC Technical Specialist formulating this Project and Sub Grant Application has worked closely with The Applicants Director of Roads and Bridges to benchmark Labor, Equipment and Material requirements based on production rates obtained from recent historical data supplied by the Applicant for similar work in scope and volume using Force Account assets; and, after concurring that the Scope, Labor, Equipment and Material quantities and costs were reasonable, in a unified effort, estimated the costs of all work tasks contained in this Scope of work. A copy of the estimate formulated for this site is attached to this Project. This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (2) (I).

Scope Items

Remove and Haul existing materials for repurposing to Applicants Storage Yard facility (Applicant will mill broken asphalt and Caliche for future use as patch materials) Sites A and B combined:

- Caliche - Dimensions 2184 Ft. long by 22 Ft. Wide by 0.333 Ft. (4 inch) deep = 587.25 CY

- Asphalt Wear Surface - Dimensions 2184 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 296.41 CY

Demo and Haul Away		
Truck Loads	Dump Truck Hours	Hours Per Each of 5 Trucks
Caliche 42	41.95	
Asphalt 21	21.10	
Total 63	13	

Pick up materials from vendor locations and haul to site, Install and grade base 4 Inch deep Caliche (which will restore to a 4 Inch base that preexisted the event, Compact base, install Tack Coat (emulsified asphalt), install, and roll in wear surface (2 Inch of Hot Asphalt Wear Surface)

Mobilize Pick up and deliver material in place

Truck Loads	Dump Truck Hours	Hours Per Each of 5 Trucks
Caliche 42	41.95	
Asphalt 21	21.10	
Total 63	13	

Total Truck Hours Needed per truck (Demo and Install) 25.22

Estimated Costs

Material (Sites A and B Combined)

- Caliche - Actual F/A Cost - Dimensions 2184 Ft. long by 22 Ft. Wide by 0.333 Ft. (4 inch) deep = 587.25 CY @ 3,500 Lbs./CY => 1,027.69 Tons @ \$3.25 = \$3,340.00
- Asphalt including emulsified tack coat - Actual F/A Cost - Dimensions 2184 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 295.41 CY @ 4,212 Lbs./CY => 622.13 Tons @ \$58.50 = \$36,394.34

Equipment and Labor (Sites A and B combined)

- Using F/A Equipment (Grader with 14 Ft. Moldboard - FEMA CC 8331) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 2184 Ft. long by 22 Ft. Wide by 0.330 Ft. (4 inch) deep
3.7 Hrs. Labor @ \$28.72 = \$106.26
3.7 Hrs. FA Equip @ 84.00 = \$310.80
- Using F/A Equipment (Paver - FEMA CC 8432) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 2184 Ft. long by 22 Ft. Wide by 0.166 Ft. (1.992 inch) deep
6.5 Hrs. Labor @ \$20.06 = \$130.39
6.5 Hrs. FA Equip @ 135.00 = \$877.50
- Using F/A Equipment (Dump Truck # 1 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
25.22 Hrs. Labor @ \$20.80 = \$524.58
25.22 Hrs. FA Equip @ 75.00 = \$1,891.50
- Using F/A Equipment (Dump Truck # 2 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
25.22 Hrs. Labor @ \$20.80 = \$524.58
25.22 Hrs. FA Equip @ 75.00 = \$1,891.50
- Using F/A Equipment (Dump Truck # 3 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
25.22 Hrs. Labor @ \$20.80 = \$524.58
25.22 Hrs. FA Equip @ 75.00 = \$1,891.50
- Using F/A Equipment (Dump Truck # 4 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
25.22 Hrs. Labor @ \$20.80 = \$524.58
25.22 Hrs. FA Equip @ 75.00 = \$1,891.50
- Using F/A Equipment (Dump Truck # 5 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
25.22 Hrs. Labor @ \$20.80 = \$524.58
25.22 Hrs. FA Equip @ 75.00 = \$1,891.50
- Pickup Truck 1 - 1/2 Ton - FEMA CC 8801
2 Hrs. Labor @ \$17.98 = \$35.96
2 Hrs. FA Equip @ 19.95 = \$39.90
- Pickup Truck 2 - 1/2 Ton - FEMA CC 8801

2 Hrs. Labor @ \$17.98 = \$35.96
 2 Hrs. FA Equip @ 19.95 = \$39.90

- Using F/A Equipment (Compactor - Vibratory Drum Roller - FEMA CC 8222) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 2184 Ft. long by 22 Ft. Wide by 0.500 Ft. (6 inch) deep
 3.7 Hrs. Labor @ \$19.40 = \$71.78
 3.7 Hrs. FA Equip @ 28.75 = \$106.38

- Using F/A Equipment (Pneumatic Roller - 9 wheels - FEMA CC 8223) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 2184 Ft. long by 22 Ft. Wide by 0.500 Ft. (6 inch) deep
 3.2 Hrs. Labor @ \$19.40 = \$62.08
 3.2 Hrs. FA Equip @ 33.75 = \$108.00

- Using F/A Equipment (Front End Loader - 5 CY Capacity - FEMA CC 8395) and F/A Labor (actual hourly rate including fringes), scrape up road surface and load dump trucks. - Dimensions 2184 Ft. long by 22 Ft. Wide by 0.500 Ft. (6 inch) deep
 7.5 Hrs. Labor @ \$21.21 = \$159.08
 7.5 Hrs. FA Equip @ 74.50 = \$558.75

- Using F/A Equipment (Haul Truck with trailer- FEMA CC 8795) and F/A Labor (actual hourly rate including fringes), for transporting, compactors, rollers, back hoes and front end loaders to and from jobsite.
 2 Hrs. Labor @ \$19.89 = \$39.78
 2 Hrs. FA Equip @ 41.00 = \$82.00

- Using F/A Equipment (Water Tanker Truck - 4000 Gal. Capacity - FEMA CC 8781) and F/A Labor (actual hourly rate including fringes), to transport water and emulsified asphalt to jobsite and apply liquids (water to Cliché and Asphalt for Tack Coating) to road base materials and surfaces.
 6.5 Hrs. Labor @ \$20.80 = \$135.20
 6.5 Hrs. FA Equip @ 51.25 = \$333.13

- Traffic Safety - Flagman # 1 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
 10.7 Hrs. Labor @ \$18.44 = \$197.31

- Traffic Safety - Flagman # 2 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
 10.7 Hrs. Labor @ \$20.28 = \$217.00

Summary of Estimated Costs

F/A Labor \$3,815.13
 F/A Equipment \$11,913.85
 F/A Materials \$39,734.35

Total this Project: \$55,463.33
 End of SOW

Current Version:

Site 6 of 8

DAMAGED FACILITY:

COUNTY: Hidalgo

Location 19 A, 19 B and 19 C

LOCATION:

PA-06-TX-4223-PW-00988(0):
 Site # 19A Lat.: 26.30969 Long.: -98.07114 to Lat.: 26.3087 Long.: -98.0713 North 83 Rd Street starting at address 2148 and ending at address 2054. See attached pictures labelled as Site 19A photos.
 Site # 19B Lat.: 26.303082 Long.: -98.072313 Intersection of 83rd Road and Mile 17 Road. See attached pictures labelled as Site 19B photos.
 Site # 19C Lat.: 26.29662 Long.: -98.07342 North 83 Rd St. starting at GPS coordinates and travelling south toward State Highway 107. See attached pictures labelled as Site 19C photos.

LATITUDE:
 26.29662
 26.303082
 26.3087
 26.30969

LONGITUDE:
 -98.07342
 -98.072313
 -98.0713
 -98.07114

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-06-TX-4223-PW-00988(0):
 DDD
 During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged these Three (3) sections of paved roadway for a period of One (1) Week. Water saturated the base material (Caliche) and caused the road base (Caliche) and wear surface (Asphalt) to severely undulate, rut and delaminate causing damage to the following:
 19A

- Caliche - Dimensions 500 Ft. long by 22 Ft. Wide by 0.330 Ft. (4 inch) deep = 134.44 CY
- Asphalt Wear Surface - Dimensions 500 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 67.63 CY

19B

- Caliche - Dimensions 150 Ft. long by 22 Ft. Wide by 0.330 Ft. (4 inch) deep = 40.33 CY
- Asphalt Wear Surface - Dimensions 150 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 20.29 CY

19C

- Caliche - Dimensions 200 Ft. long by 22 Ft. Wide by 0.330 Ft. (4 inch) deep = 53.78 CY
- Asphalt Wear Surface - Dimensions 200 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 27.05 CY

This road, while in fair condition is nonetheless recommended as eligible damages, the rational for this recommendation is based on the FEMA TAC Technical Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages at are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).
End of DDD

Current Version:

SCOPE OF WORK:

PA-06-TX-4223-PW-00988(0):

SOW

Work to Be Completed

19ABC Combined – Three (3) Sites

The Applicant will use Force Account Labor [using actual hourly rates (including Fringes)], Force Account Equipment (using FEMA Cost Codes), and Force Account Materials [using recent local historical costs (current contracts for Force Account Material vendors and invoices attached)] to perform and execute the Work to Be Completed. The FEMA TAC Technical Specialist formulating this Project and Sub Grant Application has worked closely with The Applicants Director of Roads and Bridges to benchmark Labor, Equipment and Material requirements based on production rates obtained from recent historical data supplied by the Applicant for similar work in scope and volume using Force Account assets; and, after concurring that the Scope, Labor, Equipment and Material quantities and costs were reasonable, in a unified effort, estimated the costs of all work tasks contained in this Scope of work. A copy of the estimate formulated for this site is attached to this Project. This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (l).

Scope Items

Remove and Haul existing materials for repurposing to Applicants Storage Yard facility (Applicant will mill broken asphalt and Caliche for future use as patch materials) Sites A, B and C combined:

- Caliche - Dimensions 850 Ft. long by 22 Ft. Wide by 0.333 Ft. (4 inch) deep = 228.56 CY
- Asphalt Wear Surface - Dimensions 850 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 114.97 CY

Demo and Haul Away

Truck Loads	Dump Truck Hours	Hours Per Each of 5 Trucks
Caliche 16	16.33	
Asphalt 8	8.21	
Total 25	5	

Pick up materials from vendor locations and haul to site, Install and grade base (4 Inch deep Caliche) (which will restore to a 4 Inch base that preexisted the event, Compact base, install Tack Coat (emulsified asphalt), install, and roll in wear surface (2 Inch of Hot Asphalt Wear Surface)

Mobilize Pick up and deliver material in place

Truck Loads	Dump Truck Hours	Hours Per Each of 5 Trucks
Caliche 16.33	16.33	
Asphalt 8.21	8.21	
Total 25	5	

Total Truck Hours Needed per truck (Demo and Install) 10.00

Estimated Costs

Material (Sites A, B and C Combined)

- Caliche - Actual F/A Cost - Dimensions 850 Ft. long by 22 Ft. Wide by 0.333 Ft. (4 inch) deep = 228.56 CY @ 3,500 Lbs./CY => 399.97 Tons @ \$3.25 = \$1,299.91
- Asphalt including emulsified tack coat - Actual F/A Cost - Dimensions 850 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 114.97 CY @ 4,212 Lbs./CY => 242.13 Tons @ \$58.50 = \$14,164.46

Equipment and Labor (Sites A, B and C combined)

- Using F/A Equipment (Grader with 14 Ft. Moldboard - FEMA CC 8331) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 850 Ft. long by 22 Ft. Wide by 0.333 Ft. (4 inch) deep 2.1 Hrs. Labor @ \$28.72 = \$60.31

2.1 Hrs. FA Equip @ 84.00 = \$176.40

- Using F/A Equipment (Paver - FEMA CC 8432) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 850 Ft. long by 22 Ft. Wide by 0.167 Ft. (2 inch) deep

3.1 Hrs. Labor @ \$20.06 = \$62.19

3.1 Hrs. FA Equip @ 135.00 = \$418.50

- Using F/A Equipment (Dump Truck # 1 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.

10 Hrs. Labor @ \$20.80 = \$208.00

10 Hrs. FA Equip @ 75.00 = \$750.00

- Using F/A Equipment (Dump Truck # 2 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.

10 Hrs. Labor @ \$20.80 = \$208.00

10 Hrs. FA Equip @ 75.00 = \$750.00

- Using F/A Equipment (Dump Truck # 3 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.

10 Hrs. Labor @ \$20.80 = \$208.00

10 Hrs. FA Equip @ 75.00 = \$750.00

- Using F/A Equipment (Dump Truck # 4 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.

10 Hrs. Labor @ \$20.80 = \$208.00

10 Hrs. FA Equip @ 75.00 = \$750.00

- Using F/A Equipment (Dump Truck # 5 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.

10 Hrs. Labor @ \$20.80 = \$208.00

10 Hrs. FA Equip @ 75.00 = \$750.00

- Pickup Truck 1 - 1/2 Ton - FEMA CC 8801

2 Hrs. Labor @ \$17.98 = \$35.96

2 Hrs. FA Equip @ 19.95 = \$39.90

- Pickup Truck 2 - 1/2 Ton - FEMA CC 8801

2 Hrs. Labor @ \$17.98 = \$35.96

2 Hrs. FA Equip @ 19.95 = \$39.90

- Using F/A Equipment (Compactor - Vibratory Drum Roller - FEMA CC 8222) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 850 Ft. long by 22 Ft. Wide by 0.500 Ft. (6 inch) deep

2.1 Hrs. Labor @ \$19.40 = \$40.74

2.1 Hrs. FA Equip @ 28.75 = \$60.38

- Using F/A Equipment (Pneumatic Roller - 9 wheels - FEMA CC 8223) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 850 Ft. long by 22 Ft. Wide by 0.500 Ft. (6 inch) deep

1.8 Hrs. Labor @ \$19.40 = \$34.92

1.8 Hrs. FA Equip @ 33.75 = \$60.75

- Using F/A Equipment (Front End Loader - 5 CY Capacity - FEMA CC 8395) and F/A Labor (actual hourly rate including fringes), scrape up road surface and load dump trucks. - Dimensions 850 Ft. long by 22 Ft. Wide by 0.500 Ft. (6 inch) deep

3.5 Hrs. Labor @ \$21.21 = \$74.24

3.5 Hrs. FA Equip @ 74.50 = \$260.75

- Using F/A Equipment (Haul Truck with trailer - FEMA CC 8795) and F/A Labor (actual hourly rate including fringes), for transporting, compactors, rollers, back hoes and front end loaders to and from jobsite.

2 Hrs. Labor @ \$19.89 = \$39.78

2 Hrs. FA Equip @ 41.00 = \$82.00

- Using F/A Equipment (Water Tanker Truck - 4000 Gal. Capacity - FEMA CC 8781) and F/A Labor (actual hourly rate including fringes), to transport water and emulsified asphalt to jobsite and apply liquids (water to Cliché and Asphalt for Tack Coating) to road base materials and surfaces.

3.1 Hrs. Labor @ \$20.80 = \$64.48

3.1 Hrs. FA Equip @ 51.25 = \$158.88

- Traffic Safety - Flagman # 1 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)

5.4 Hrs. Labor @ \$18.44 = \$99.58

- Traffic Safety - Flagman # 2 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)

5.4 Hrs. Labor @ \$20.28 = \$109.51

Summary of Estimated Costs

F/A Labor \$1,699.12
 F/A Equipment \$5,047.45
 F/A Materials \$15,464.37

Total this Project: \$22,210.95
 End of SOW

Current Version:

Site 7 of 8

DAMAGED FACILITY:

COUNTY: Hidalgo

Location 20

LOCATION:

LATITUDE:
 26.31348
 26.313935

LONGITUDE:
 -98.087285
 -98.090565

PA-06-TX-4223-PW-00988(0):
 Site # 20 Lat.: 26.313935 Long.: -98.090565 to Lat.: 26.313480 Long -98.087285 Bandera Street from address 6019 travelling east to North Tower Road. See attached pictures labelled as Site 20 photos.

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-06-TX-4223-PW-00988(0):
 DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Four (4) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will the need to replace the following:

- Caliche - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.330 Ft. (4 inch) deep = 283.95 CY
- Asphalt Wear Surface - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 142.83 CY

This road, while in fair condition is nonetheless recommended as eligible damages, the rational for this recommendation is based on the FEMA TAC Technical Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages at are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).
 End of DDD

Current Version:

SCOPE OF WORK:

PA-06-TX-4223-PW-00988(0):
 SOW

Work to Be Completed
 The Applicant will use Force Account Labor [using actual hourly rates (including Fringes)], Force Account Equipment (using FEMA Cost Codes), and Force Account Materials [using recent local historical costs (current contracts for Force Account Material vendors and invoices attached)] to perform and execute the Work to Be Completed. The FEMA TAC Technical Specialist formulating this Project and Sub Grant Application has worked closely with The Applicants Director of Roads and Bridges to benchmark Labor, Equipment and Material requirements based on production rates obtained from recent historical data supplied by the Applicant for similar work in scope and volume using Force Account assets; and, after concurring that the Scope, Labor, Equipment and Material quantities and costs were reasonable, in a unified effort, estimated the costs of all work tasks contained in this Scope of work. A copy of the estimate formulated for this site is attached to this Project. This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I).

Scope Items

Remove and Haul existing materials for repurposing to Applicants Storage Yard facility (Applicant will mill broken asphalt and Caliche for future use as patch materials):

- Caliche - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.330 Ft. (4 inch) deep = 283.95 CY
- Asphalt Wear Surface - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 142.83 CY

Demo and Haul Away

Truck Loads	Dump Truck Hours	Hours Per Each of 5 Trucks
Caliche 20	20.28	
Asphalt 10	10.20	
Total 30	6	

Pick up materials from vendor locations and haul to site, Install and grade base (4 Inch deep Caliche) which will restore to a 4 Inch base that preexisted the event, Compact base, install Tack Coat (emulsified asphalt), install, and roll in wear surface (2 Inch of Hot Asphalt Wear Surface)

Mobilize Pick up and deliver material in place

Truck Loads	Dump Truck Hours	Hours Per	Each of 5 Trucks
Caliche 20.28	20.28		
Asphalt 10.20	10.20		
Total 30	6		

Total Truck Hours Needed per truck (Demo and Install) 12.19

Estimated Costs

Material

- Caliche - Actual F/A Cost - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.330 Ft. (4 inch) deep = 283.95 CY@ 3,500 Lbs./CY => 496.91 Tons @ \$3.25 = \$1,614.95
- Asphalt including emulsified tack coat - Actual F/A Cost - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 142.83 CY@ 4,212 Lbs./CY => 300.81 Tons @ \$58.50 = \$17,597.26

Equipment and Labor

- Using F/A Equipment (Grader with 14 Ft. Moldboard - FEMA CC 8331) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.330 Ft. (4 inch) deep
2.3 Hrs. Labor @ \$28.72 = \$66.06
2.3 Hrs. FA Equip @ 84.00 = \$193.20
- Using F/A Equipment (Paver - FEMA CC 8432) and F/A Labor (actual hourly rate including fringes), grade road surface. - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep
3.6 Hrs. Labor @ \$20.06 = \$72.22
3.6 Hrs. FA Equip @ 135.00 = \$486.00
- Using F/A Equipment (Dump Truck # 1 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
12.19 Hrs. Labor @ \$20.80 = \$253.55
12.19 Hrs. FA Equip @ 75.00 = \$914.25
- Using F/A Equipment (Dump Truck # 2 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
12.19 Hrs. Labor @ \$20.80 = \$253.55
12.19 Hrs. FA Equip @ 75.00 = \$914.25
- Using F/A Equipment (Dump Truck # 3 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
12.19 Hrs. Labor @ \$20.80 = \$253.55
12.19 Hrs. FA Equip @ 75.00 = \$914.25
- Using F/A Equipment (Dump Truck # 4 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
12.19 Hrs. Labor @ \$20.80 = \$253.55
12.19 Hrs. FA Equip @ 75.00 = \$914.25
- Using F/A Equipment (Dump Truck # 5 - 14 CY Capacity - FEMA CC 8725) and F/A Labor (actual hourly rate including fringes), load, haul and dump.
12.19 Hrs. Labor @ \$20.80 = \$253.55
12.19 Hrs. FA Equip @ 75.00 = \$914.25
- Pickup Truck 1 - 1/2 Ton - FEMA CC 8801
2 Hrs. Labor @ \$17.98 = \$35.96
2 Hrs. FA Equip @ 19.95 = \$39.90
- Pickup Truck 2 - 1/2 Ton - FEMA CC 8801
2 Hrs. Labor @ \$17.98 = \$35.96
2 Hrs. FA Equip @ 19.95 = \$39.90
- Using F/A Equipment (Compactor - Vibratory Drum Roller - FEMA CC 8222) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.500 Ft. (6 inch) deep
2.3 Hrs. Labor @ \$19.40 = \$44.62
2.3 Hrs. FA Equip @ 28.75 = \$66.13
- Using F/A Equipment (Pneumatic Roller - 9 wheels - FEMA CC 8223) and F/A Labor (actual hourly rate including fringes), compact and smooth base and road surfaces. - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.500 Ft. (6 inch) deep
2.1 Hrs. Labor @ \$19.40 = \$40.74
2.1 Hrs. FA Equip @ 33.75 = \$70.88
- Using F/A Equipment (Front End Loader - 5 CY Capacity - FEMA CC 8395) and F/A Labor (actual hourly rate including fringes), scrape up road surface and load dump trucks. - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.500 Ft. (6 inch) deep

Federal Emergency Management Agency E-Grants

4.2 Hrs. Labor @ \$21.21 = \$89.08
 4.2 Hrs. FA Equip @ 74.50 = \$312.90

- Using F/A Equipment (Haul Truck with trailer- FEMA CC 8795) and F/A Labor (actual hourly rate including fringes), for transporting, compactors, rollers, back hoes and front end loaders to and from jobsite.
 2 Hrs. Labor @ \$19.89 = \$39.78
 2 Hrs. FA Equip @ 41.00 = \$82.00
- Using F/A Equipment (Water Tanker Truck - 4000 Gal. Capacity - FEMA CC 8781) and F/A Labor (actual hourly rate including fringes), to transport water and emulsified asphalt to jobsite and apply liquids (water to Cliché and Asphalt for Tack Coating) to road base materials and surfaces.
 3.6 Hrs. Labor @ \$20.80 = \$74.88
 3.6 Hrs. FA Equip @ 51.25 = \$184.50
- Traffic Safety - Flagman # 1 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
 6.2 Hrs. Labor @ \$18.44 = \$114.33
- Traffic Safety - Flagman # 2 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
 6.2 Hrs. Labor @ \$20.28 = \$125.74

Summary of Estimated Costs

F/A Labor \$2,008.58
 F/A Equipment \$6,046.65
 F/A Materials \$19,212.21

Total this Project: \$27,267.44
 End of SOW

Current Version:

Site 8 of 8

DAMAGED FACILITY:

COUNTY: Hidalgo

Location 21

LOCATION:

PA-06-TX-4223-PW-00988(0):
 Site # 21 Lat.: 26.31282 Long.: -98.08895 to Lat.: 26.3153 Long.: -98.08852 Grobe St. between Mile 17 1/2 Road and Orchard Street. See attached pictures labelled as Site 21 photos.

LATITUDE:
 26.31282
 26.3153

LONGITUDE:
 -98.08895
 -98.08852

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-06-TX-4223-PW-00988(0):

DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Four (4) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will the need to replace the following:

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- Asphalt Wear Surface - Dimensions 1056 Ft. long by 22 Ft. Wide by 0.166 Ft. (2 inch) deep = 142.83 CY

This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA TAC Technical Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages at are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).
 End of DDD

Current Version:

SCOPE OF WORK:

PA-06-TX-4223-PW-00988(0):

SOW

Work to Be Completed

The Applicant will use Force Account Labor [using actual hourly rates (including Fringes)], Force Account Equipment (using FEMA Cost Codes), and Force Account Materials [using recent local historical costs (current contracts for Force Account Material vendors and invoices attached)] to perform and execute the Work to Be Completed. The FEMA TAC Technical Specialist formulating this Project and Sub Grant Application has worked closely with The Applicants Director of Roads and Bridges to benchmark Labor, Equipment and Material

requirements based on production rates obtained from recent historical data supplied by the Applicant for similar work in scope and volume using Force Account assets; and, after concurring that the Scope, Labor, Equipment and Material quantities and costs were reasonable, in a unified effort, estimated the costs of all work tasks contained in this Scope of work. A copy of the estimate formulated for this site is attached to this Project. This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I).

Scope Items

Remove and Haul existing materials for repurposing to Applicants Storage Yard facility (Applicant will mill broken asphalt and Caliche for future use as patch materials):

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Demo and Haul Away

Truck Loads	Dump Truck Hours	Hours Per Each of 5 Trucks
Caliche 20	20.28	
Asphalt 10	10.20	
Total 30	6	

Pick up materials from vendor locations and haul to site, Install and grade base (4 Inch deep Caliche) which will restore to a 4 Inch base that preexisted the event, Compact base, install Tack Coat (emulsified asphalt), install, and roll in wear surface (2 Inch of Hot Asphalt Wear Surface)

Mobilize Pick up and deliver material in place

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Total Truck Hours Needed per truck (Demo and Install) 12.19

Estimated Costs

Material

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12.19 Hrs. Labor @ \$20.80 = \$253.55

12.19 Hrs. FA Equip @ 75.00 = \$914.25

- Pickup Truck 1 - 1/2 Ton - FEMA CC 8801
2 Hrs. Labor @ \$17.98 = \$35.96
2 Hrs. FA Equip @ 19.95 = \$39.90

- Pickup Truck 2 - 1/2 Ton - FEMA CC 8801
2 Hrs. Labor @ \$17.98 = \$35.96
2 Hrs. FA Equip @ 19.95 = \$39.90

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4.2 Hrs. FA Equip @ 74.50 = \$312.90

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2 Hrs. Labor @ \$19.89 = \$39.78
2 Hrs. FA Equip @ 41.00 = \$82.00

- Using F/A Equipment (Water Tanker Truck - 4000 Gal. Capacity - FEMA CC 8781) and F/A Labor (actual hourly rate including fringes), to transport water and emulsified asphalt to jobsite and apply liquids (water to Cliché and Asphalt for Tack Coating) to road base materials and surfaces.
3.6 Hrs. Labor @ \$20.80 = \$74.88
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- Traffic Safety - Flagman # 1 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
6.2 Hrs. Labor @ \$18.44 = \$114.33

- Traffic Safety - Flagman # 2 (F/A Labor (actual hourly rate including fringes) controlling ingress and egress of vehicles and providing safety monitoring at jobsites)
6.2 Hrs. Labor @ \$20.28 = \$125.74

Summary of Estimated Costs

F/A Labor \$2,008.58
F/A Equipment \$6,046.65
F/A Materials \$19,212.21

Total this Project: \$27,267.44
End of SOW

Project Notes:

-- DIRECT ADMINISTRATIVE COSTS (ESTIMATED): Direct Administrative Costs (Sub Grantee) 9901 has been estimated from the DAC Spreadsheet (Attached). These costs were calculated based on the total project value. The Sub Grantee has been notified that back-up documentation will be requested at close-out which supports all costs incurred for assistance in formulating or administering this project assistance grant.

-- FEDERAL AID ROADS: Project Specialist has validated that none of the sites in this project are listed on the Federal Functional Classification System as Major Collectors, Minor Arterials, Principal Arterials, or Interstate, receiving federal funding.

-- ROAD PROJECTS (FIRMette Requirement): Any road being repaired to pre-disaster design, function, capacity that does not include a hazard mitigation proposal, will not require a FIRMette. If any work to repair the road requires work outside the original footprint a FIRMette will be required.

-- SMALL PROJECTS, ANY CATAGORY: For small projects FEMA pays based on the actual or estimated cost in order to expedite the funds (Digest pg. 121.) FEMA does not perform final inspections on small projects; however, the state must certify compliance. The applicant does have the ability to request a small project netting (appeal) if/when significant net small over-runs occur. This process will involve a review of all documentation for all small projects and an adjustment will be made for the total actual eligible dollars spent (over-run/under-run). A final Project Worksheet will then be required in EMMIE to capture all the eligible PA costs for the small projects.

-- SMALL PROJECT CHANGE REQUEST: Change requests to small project worksheets will not be approved unless there is a change in the approved scope of work. This change must be approved prior to the construction. If after completion of all small projects the applicant incurs a significant net small project overrun, the applicant must file an appeal within 60 day of completion of the applicant's last small

project. All requests must be submitted through the grantee.

- WORK TO BE COMPLETED: Upon completion, this site will be returned to its original design, function, and capacity within the original footprint. Acquiring all necessary Federal, State, and local permits is required for Federal Funding. Noncompliance with this requirement may jeopardize the receipt of Federal funds.

- PROCUREMENT: The Applicant was advised by FEMA PAC and/or Project Specialist that in the seeking of proposals and letting of contracts for eligible work, the Applicant must comply with its Local, State and/or Federal procurement laws, regulations, and procedures as required by 2 CFR 317-326.

- RECORD RETENTION: As described in 2 CFR 200.33 Sub Grantee must maintain all work-related records for a period of three (3) years from Sub Grantee closure (final payment), all records relative this project worksheet are subject to examination and audit by the State, FEMA and the Comptroller General of the United States and must reflect work related to disaster specific costs.

- PERMITS: Federal Funding is contingent upon acquiring all necessary Federal, State and Local permits. Noncompliance with this requirement may jeopardize the receipt of federal funds. The applicant is responsible for obtaining all required permits prior to the commencement of work.

- ENVIRONMENTAL AND HISTORIC PRESERVATION: Applicant must comply with all applicable environmental and historic preservation laws. Federal funding is contingent upon acquiring all necessary Federal, State and Local permits. Noncompliance with this requirement may jeopardize the receipt of federal funds.

- CHANGES TO SCOPE OF WORK DESCRIBED IN THIS PW/SA (SUBGRANT APPLICATION): The applicant shall comply with all applicable codes and standards in the completion of eligible work to repair or replace damaged public facilities. Any change to the approved scope of work on a Project Worksheet (PW/SA) must be reported and approved before work begins. Failure to report changes may jeopardize Federal and State funding. In the case of a change in scope of work, the applicant should immediately notify Wendell Allen, Section Administrator, Texas Department of Emergency Management prior to starting work.

- INSURANCE REVIEW: The applicant is aware that all projects are subject to an insurance review as stated in 44 C.F.R. Sections 206.252 and 206.253. If applicable, an insurance determination will be made either as anticipated proceeds or actual proceeds in accordance with the applicant's insurance policy which may affect the total amount of the project. Approval of this project may result in an obtain /maintain insurance requirement. The Sub Grantee must comply with insurance reviewer terms and conditions upon receipt of sub-grant from the State.

- COST BASIS FOR LABOR, EQUIPMENT AND MATERIALS: Costs used to formulate this project were based on: [select all that apply and include data dates]

- Unit Costs provided by Applicant - Force Account Labor Rates (including Fringes)

- FEMA cost codes - For Force3 Account Equipment

- Local material cost - Force Account Material Costs

- AUDIT STATEMENT: All documentation related to this project worksheet is subject to audit and must reflect disaster - related work and project - specific cost. The applicant has been advised of responsibility to maintain supporting documentation (records). The type of records to be maintained is specified in FEMA policy 2 CFR Subpart F, Audit Requirements. Records must be maintained for three 3 years from the date the last project was completed or from the date final payment was received, whichever is later.

- 75% FEDERAL FUNDING: In accordance with FEMA policy 9523.9 and current disaster declaration determinations, this project worksheet will be funded with the Federal Cost share at 75% of all eligible costs.

- By accepting this grant the Applicant to the best of their ability acknowledges that all damages described within this Sub-grant Application and all associated costs being claimed were a direct result of the declared event, and in connection with the incident period of 05/04/2015 thru 06/22/2015 with the exception of requests for alternate or improved projects.

- HAZARD MITIGATION PROPOSAL: Hazard Mitigation under section 406 has been considered for this project and due to the type of work or project, effective mitigation is not feasible within the requirements of 44 CFR 206.226(c).

Current Version:

Does the Scope of Work change the pre-disaster conditions at the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Special Considerations included? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hazard Mitigation proposal included? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is there insurance coverage on this facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

PROJECT COST

ITEM	CODE	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
		*** Version 0 ***			
		Work To Be Completed			
1	9888	Site 1 Location 14 Work To Be Completed	1/LS	\$ 0.00	\$ 0.00
2	9888	Site 2 Location 15 Work To Be Completed	1/LS	\$ 35,089.71	\$ 35,089.71
3	9888	Site 3 Location 16 Work To Be Completed	1/LS	\$ 114,386.45	\$ 114,386.45
4	9888	Site 4 Location 17 Work To Be Completed	1/LS	\$ 10,755.30	\$ 10,755.30
5	9888	Site 5 Location 18 A and 18 B Work To Be Completed	1/LS	\$ 55,463.33	\$ 55,463.33

6	9888	Site 6 Location 19 A, 19 B and 19 C Work To Be Completed	1/LS	\$ 22,210.94	\$ 22,210.94
7	9888	Site 7 Location 20 Work To Be Completed	1/LS	\$ 27,267.44	\$ 27,267.44
8	9888	Site 8 Location 21 Work To Be Completed	1/LS	\$ 27,267.44	\$ 27,267.44
		Direct Subgrantee Admin Cost			
9	9888	Site 1 Location 14 Direct Subgrantee Admin Cost	1/LS	\$ 0.00	\$ 0.00
10	9888	Site 2 Location 15 Direct Subgrantee Admin Cost	1/LS	\$ 576.00	\$ 576.00
11	9888	Site 3 Location 16 Direct Subgrantee Admin Cost	1/LS	\$ 1,312.00	\$ 1,312.00
12	9888	Site 4 Location 17 Direct Subgrantee Admin Cost	1/LS	\$ 284.00	\$ 284.00
13	9888	Site 5 Location 18 A and 18 B Direct Subgrantee Admin Cost	1/LS	\$ 672.00	\$ 672.00
14	9888	Site 6 Location 19 A, 19 B and 19 C Direct Subgrantee Admin Cost	1/LS	\$ 489.00	\$ 489.00
15	9888	Site 7 Location 20 Direct Subgrantee Admin Cost	1/LS	\$ 576.00	\$ 576.00
16	9888	Site 8 Location 21 Direct Subgrantee Admin Cost	1/LS	\$ 576.00	\$ 576.00
				TOTAL COST	\$ 296,925.61
PREPARED BY CHARLES M LOIHLE			TITLE	SIGNATURE <i>Charles M Loihle</i>	
APPLICANT REP. Ramon Garcia			TITLE Hidalgo County Judge	SIGNATURE	