



User Department's Recommendation : SUBJECT: ITB#18-100966- Fire Pumper, 1000 GPM with Fire and EMS Equipment

Recommended Bidder: Williams Fire Apparatus meets our approval.

Amount Spent on Previous Contract: N/A

Funding: Vehicle Replacement Fund

General Enterprise 3 Digit Fund Code Fund #621

CIP Line Item No. (if applicable): _____

Disbarment and Suspension checks completed-Yes

Project Amount This Term: \$678,222.00 x 5 = \$3,391,110.00

Justification:

It is recommended that Williams Fire Apparatus, Inc., who represents Sutphen Corporation, is the responsive bidder and provided a bid that exactly met the requirements of the specification.

FireLine Inc. was the lowest bidder; however, the vendor did not propose a fire apparatus that resembled the DeKalb County specification. Below is a table showing the various inconsistencies between the FireLine proposal and the DeKalb County specification. Also below is inserted the proposal drawings from FireLine Inc. and Williams Fire Apparatus. You can see the visible differences in interpretation of the DeKalb County specifications in the drawings. The other bidders were higher in cost and therefore not acceptable.

FireLine Proposal	DeKalb County Specification
1. Line-X Bumper package: Includes all visible diamond plate, gravel shield and exterior surfaces.	1. Protective LINE-X® coating shall be provided on the outside exterior of the top front bumper flange and the area of the entire recessed intake notch.
2. Bumper extension - 28"	2. A 12" high by 18" extended, painted steel channel bumper will be provided at the front of the apparatus.
3. A heavy duty 10" high steel channel type front bumper shall be provided.	3. A 12" high by 18" extended, painted steel channel bumper will be provided at the front of the apparatus.
4. The driver side will have a notch in bumper to allow room for a flush mounted Q2B siren.	4. A Federal Q2B® siren will be mounted on the front grille, partially recessed.
5. Bumper Tray - The tray shall be located in the center of the bumper and	5. The hose tray will have a depth of 12.00".



approximately 14" deep.	
6. Tray Restraint – A heavy Duty nylon strap with an aluminum quick release buckle shall be provided.	6. The restraints will be a pair of 3.00" wide black nylon straps with stainless steel airplane style seat belt buckles.
7. Front tires shall be Goodyear 425/65R22.5 tubeless type "L" range radial tires with G296 MSA tread.	7. Front tires shall be Goodyear® 385/65R22.5 radials, 18 ply G296 MSA tread.
8. Brake System – Air System capacity 5,214 cu. In.	8. Standard 3 air tanks with a total of 4,136 cu. In. air capacity. An additional air tank with 1,454 cu. In. displacement will be provided to increase the capacity of the main air brake system. 5,590 cu. in. total.
9. Parking Brake control lower dash panel within easy reach of the driver.	9. The parking brake actuation valve shall be mounted on the center of the dash within easy access of the driver and the officer positions.
10. Air Inlet Auto Eject – A Kussmaul Air Auto Eject system #091-28 shall be installed for the air inlet connection.	10. This item was not requested in the specification and added by the vendor without approval.
11. Air Horns – No length or model number specified.	11. Two (2) chrome finished, stutter tone, Grover, Model 1510, air horns approximately 24.50" long will be provided and recessed in the front bumper.
12. Air Intake – No height specified, but stated behind the cab face.	12. The air filter shall be located at the front of the apparatus and shall be at least 66" above the ground, to allow fording deep water in an emergency situation.
13. Transmission reverse ratio – 5.03	13. The transmission reverse ratio will be: 4.80
14. Fuel Cap – Filler neck shall be equipped with a twist-off filler cap with a retaining chain.	14. A Protect-o-seal fuel cap will be provided for each side.
15. Battery System – The manufacturer shall supply four (4) heavy duty Group 31 12-Volt maintenance free batteries.	15. There will be four (4) Optima, Model D31T "Yellow Top", 12 volt, 900CCA batteries provided.
16. Front Tow Eyes – Shall be mounted below the bumper/cab.	16. The lift and tow mounts will incorporate tow eyes through the top of the bumper gravel pan, painted job red.
17. Front Tow Eyes – No pull rating specified.	17. The tow eyes will be designed and positioned to allow up to a 20,000 lb straight horizontal or vertical pull in line with the centerline of the vehicle.
18. Rear Tow Eyes – Two (2) heavy duty tow eyes shall be secured to the rear of the apparatus for towing, not lifting. The tow eyes shall protrude into the rear compartment or out of the rear of the body.	18. A tow bar will be installed under the tailboard at center of truck. Tow bar assembly will be designed and positioned to allow up to a 30-degree upward angled pull of 17,000 lb, or a 20,000 lb straight horizontal pull in line with the



	centerline of the vehicle.	
19. Interior cab insulation – ¼” wadding and ¼”padding board with reflective insulation. Interior cab padding shall consist of rear cab headliner, a rear wall panel and side panels.	19. The cab will include 1.50” insulation in the ceiling and side walls, and 2.00” insulation in the rear wall to maximize acoustic absorption and thermal insulation.	
20. Extreme Duty Interior – Not in proposal	20. Interior metal surfaces, to include the door panels of the cab, shall be finished in gray LINE-X® or equivalent.	
21. Cab Floor – Shall be covered with a black floor mat that provides an aggressive slip-resistant surface. Aluminum treadplate not in proposal.	21. The cab and crew cab floor areas will be covered with Polydamp™ acoustical floor mat consisting of a black pyramid rubber facing and closed cell foam de-coupler. The rubber floor material will be overlaid with aluminum tread plate. The aluminum tread plate floor will entirely cover the rubber floor material.	
22. Day Time Running Lights (DRL) – The low beam headlights shall activate with the release of the parking brake to provide DRL.	22. Not requested in specification. Headlights to operate in normal fashion.	
23. Door Locks – Electric cab door locks are in the proposal. Wireless remotes and touch key pads.	23. The cab doors will be provided with both interior (rotary knob) and exterior (keyed) locks as required by FMVSS 206.	
24. Cab Door Reflective Material – Fluorescent red/Fluorescent yellow stripes covering 96 sq. in.	24. The lower portion of the doors will also have a 304 brushed stainless steel scuff plate and will include a reflective 18” “STOP” sign affixed to each door. The reflective sign will be plainly visible to oncoming traffic when the doors are in the open position.	
25. Corner View Mirror (Heated) – Not in proposal.	25. An 8.00” diameter convex mirror will be provided over the officer’s side front corner of the cab.	
26. Cab Roof Sign Plate – There shall be a sign fabricated of smooth aluminum plate mounted to the roof of the cab.	26. Not requested in specifications.	
27. Air Conditioning – The condenser shall be radiator mounted.	27. Mounting the condenser below the cab or body would reduce the performance of the system and will not be acceptable.	
28. Seating Capacity – Seating capacity for six (6) shall be provided.	28. The seating capacity in the cab will be five (5)	
29. Seat Fabric Color – All seats will be black in color.	29. All seat upholstery will be shall be 46 ounce leather grain dark silver gray vinyl resistant to oil, grease and mildew.	
30. Seat SCBA Brackets – Not in proposal.	30. All SCBA type seats in the cab shall have a “Hands-Free” auto clamp style bracket in its backrest.	



31. Medical Storage Cabinet – The medical cabinet shall be accessible externally of the cab by a locking roll-up door and internally by a vertically hinged door.	31. No exterior access was specified. Interior shall have an Amdor brand roll up door with anodized aluminum slats. Door rollers not to impede on interior dimensions. No exception. Shall roll up and over to the rear.
32. Cab Dome Lights – A Weldon LED light assembly with white and red LED's shall be installed. Four (4)	32. There will be six (6) JW Speaker, Model 417-12V, 7.60" long x 4.84" wide x 1.14" deep dual LED dome lights provided.
33. Auto Eject Battery Charger Receptacle – A Kussmaul 30 amp 120 V NEMA Auto-Eject #091-159-30-120.	33. NO Auto-Eject specified - There will be one (1) 20 amp 120 volt AC straight blade inlet(s) NEMA 5-20 with gray cover(s) provided to operate the dedicated 120 volt AC circuits on the apparatus.
34. Battery Charger shall be located behind officer's seat.	34. Battery charger will be located in the cab behind the driver seat, on the vertical wall of the EMS compartment.
35. Hatch Compartment – Not in proposal	35. One (1) hatch compartment approximately 135.75 long x 17.75 wide x 22.00 maximum depth will be provided above the driver side compartments, with two (2) lift up top opening hatch doors.
36. Rear Body Compartment – Drawing shows a full height rear compartment causing a high hose bed. Not acceptable.	36. With a low hose bed this compartment should show on a drawing approximately 26"Wx26"Dx12"H.
37. Tailboard Step – Shall be formed from aluminum treadplate reinforced with aluminum extrusion.	37. The tailboard will also be constructed of Bustin Type M4 bar grating with the scalloped top and spaced .50" from the body, as well as supported by a structural steel assembly.
38. Hose Storage Tray – Not in proposal	38. A hose storage tray will be provided above the right side compartments, including over the rear wheel.
39. Beavertails – Two (2) squared off beavertails shall be provided at the rear of the body.	39. Not requested in specification.
40. Hose Reel Blow-Out Valve	40. Not in specification. Reel not plumbed for water.
41. Double Crosslay Hosebed – Two(2) crosslay hosebeds shall be provided on the pump module.	41. Two (2) crosslays with 1.50" outlets will be provided. One (1) crosslay with 2.50" outlets will be provided. A total of three (3) crosslays is in specification
42. Attic Ladder, Pike Pole and Backboard Storage – Mounted to the top of the compartment on the officer side. No Backboard storage in proposal.	42. A storage compartment for three (3) pike poles, a folding ladder, and two (2) backboards will be located driver side in the hose bed.
43. Hose Bed – The area above the booster tank shall have a hose storage area.	43. The hose bed area shall be located behind the water tank just above the chassis



	frame rails. Hose bed body shall be a minimum of 80 inches inside length. The sides and front panel will have a double break at the top for rigidity. The hose bed shall be angled 4" lower at the front of the hose bed to prevent accidental deployment of fire hose.
44. Pump Rating – The fire pump shall be rated at 1250 GPM.	44. Midship fire pump will be a Hale QFLO, 1000 gpm single (1) stage midship mounted centrifugal type.
45. Steamers, Flush+1 – The pump 6" steamer intake shall be mounted on the drivers side.	45. Not requested in specification.
46. Left panel 2.5" discharges - Two (2) discharges are in the proposal.	46. There will be one (1) discharge outlet with a 3.00" valve on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.
47. Right Panel 2.5" Discharges – One (1) discharge is in the proposal.	47. There will be two (2) discharge outlets with a 3.00" valve on the right side of the apparatus, terminating with 2.50" male National Standard hose thread adapter.
48. Large Diameter Discharge Outlet – Not in proposal	48. There will be a 4.00" discharge outlet with a 4.00" Elkhart valve installed on the right side of the apparatus, terminating with male a 4.00", 45 degree fixed chrome elbow end cap #37, with National Standard hose thread.
49. Rear 2.5" Discharge – One (1) 2 ½" discharge provided on the left rear.	49. There will be two (2) discharge outlets piped to the rear of the hose bed, one (1) each side, installed so proper clearance is provided for spanner wrenches or adapters. Plumbing will consist of 2.50" piping along with a 2.50" full flow ball valve with the control from the pump operator's panel.
50. Discharge Outlet Controls – IC Push/Pull controls shall be ¼ turn push-pull T handled chrome plated.	50. The control for ten (10) discharge outlets will be a Trident stainless steel hand wheel control with indicators. The discharge outlets with hand wheels will be LH side, RH side (3), Rear Dis.(2), 1.5" crosslays(2), 2.50" crosslay, and Deluge Riser.
51. Booster Hose Reel – A Hannay booster reel located on the drivers side. Booster reel shall have the capacity for up to 200' of 1" booster hose. Plumbing to reel shall be 1 ½" flexible line.	51. Install one (1) Hannay model # EF-18-25-26 less swivel on the driver's side adjacent to Deck Gun. Reel to hold 331' of 1" Forestry Line (2-100' sections, 1-50', 2-25' sections and 1-6' section. The hose reel



	SHALL NOT be plumbed.
52. Master Pressure Gauges w/ Bezel – Master intake and pressure gauges shall be 4" in diameter.	52. The gauges will be a minimum of 6.00" in diameter and will have white faces with black markings, with a pressure range of 30.00" 0-400 psi.
53. Discharge Gauges – The discharge gauges shall be 2.5" in diameter.	53. The gauges will be a minimum of 3.50" in diameter and will have white faces with black markings, with a pressure range of 0-400 psi.
54. Foam System – A Class I SmartFoam 2.1A 12v DC powered variable speed electronic direct-injection foam-concentrate proportioning system with a 2.1 gpm foam concentrate pump shall be integrated.	54. The foam system will be externally mounted and gravity fed. There will be one (1) foam outlet installed Pump panel.. The outlet will be an Elkhart 81232001 piped to the foam tank with stainless steel pipe or flexible hose capable of resisting the corrosion caused by foam concentrates.
55. Hale EZ-Fill Foam Tank Refill System	55. Not requested in specification
56. Emergency Warning Equipment – Numerous issues with the proposal from wrong amount of lightheads, wrong siren/speaker and traffic advisor.	56. Specification as to emergency warning equipment is very specific and shall be adhered to per specification.
57. Intercom System – A David Clark 9900 series wireless intercom system shall be provided for five(5) positions in the cab.	57. A Setcom intercom system is specified using a mix of wireless and hardwired headsets. Two (2) wireless and three (3) wired positions.
58. Whelen Pioneer Floodlight – Pole mounted at/ near beavertail.	58. Not requested in specification

Below is the proposal drawing from FireLine Inc.



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Name, Title Date
Fleet Specification Analyst

Robert Gordon 6-13-18
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