

Attachment "B"

Minimum Bid Specifications

Service Bed and Equipment for M-12 and M-52

M-12, Underground Installation Primary Truck

The completed unit shall be certified by the bidder to meet all applicable local, state and federal requirements.

Design criteria shall be in accordance with current industry and engineering standards applicable and accepted for structural and hydraulic design safety factors.

Install crane behind cab, rear corner, Curbside. Install body and associated components on a 2017 Ford F-550 Super Duty XL 4x4 Super Cab and Chassis. Fill with hydraulic oil and lubricants and paint color of cab except for Crane and horizontal surfaces. Final test and inspection of completed unit (including function, stability testing and DOT inspection) per manufacturer's requirements and all other applicable standards.

	Yes	No
1. <u>Hydraulic Crane Venco Venturo HT40KX-P or Better</u>		
a. The crane shall be a telescopic mounted service crane with a monument rating of 40,000 ft lbs. Maximum capacity shall be 6,000lbs. With a two part winch line at 6.25 foot reach.	_____	_____
b. The Crane shall comply with ANSI B30.5 safety standards and OSHA regulations concerning crawler locomotives and truck cranes. (OSHA 29, Part 1910.180)	_____	_____
c. Operate from a Hydraulic PTO and pump. The Crane shall have an open center system that operates on 12 GPM @ 3000 PSI. The Hydraulic Reservoir will be 25 Gallon capacity with a 100 mesh suction filter. The hydraulic system shall include a 10 micron return filter. The Valve block shall include valve coils with manual overrides for each function.	_____	_____
d. The boom shall be fabricated of ¼" plate steel in a hexagonal shape to minimize boom flex and side to side movement. The boom shall telescope to provide a horizontal reach range of 10 ft. / 0 in. to 20ft. / 0 in. using a hydraulic power extension cylinder with a 10ft. stroke.	_____	_____
e. The boom shall be extended by a double –acting hydraulic cylinder with an integral counterbalance valve to prevent the boom from retracting should a loss of hydraulic pressure occur. The cylinder shall be mounted inside of the boom. The extension boom shall have bearing pads on 4-sides made from UHMW polyethylene to provide low friction and wear rate without the use of lubricants. The extension speed shall be 24 ft./min @ 2.25 GPM. The retract speed shall be controlled by a priority flow control valve (1.25 GPM) to maintain a speed of 10 ft./min .	_____	_____

- | | | Yes | No | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|--|---|--|---|---|---|----|----|------|---|----|----|------|---|----|----|------|---|---|----|------|---|---|----|--|--|
| f. | The boom elevation angle range shall extend from -8 degrees below horizontal to 75 degrees above horizontal. It shall be elevated by a double –acting hydraulic cylinder with an integral counterbalance valve to prevent the boom from lowering should a loss of hydraulic pressure occur. The lowering rate shall be controlled by a priority flow control valve (1.75GPM) to govern the rate of descent (75 to -8 degrees in 37 seconds). | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| g. | The boom end load hoisting sheave shall be made of polymer composite material and have a pitch diameter of at least 18 times the 3/8 wire rope diameter per ANSI B30.5 Sheave bearings shall made of maintenance free composite material . | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| h. | Easy to read capacity charts with indicator arrows showing boom angles and capacities for various reaches shall be located on each side of the boom. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| i. | The winch shall have a high efficiency planetary gear reduction with an oil-immersed automatic load holding multi-disk brake and shall be driven by an orbital hydraulic motor with a counterbalance valve. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| j. | The Winch line capacity shall be 3000 lbs. minimum on all layers. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| k. | The nominal winch performance shall be as follows: | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
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| <u>Load (lbs.)</u> | <u>Part Line</u> | <u>Lifting Speed @ 2.5 GPM (ft./min)</u> | <u>Lifting Speed @ 12.0 GPM (ft./min)</u> | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | 18 | 60 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1500 | 1 | 18 | 60 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3000 | 1 | 18 | 60 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3000 | 2 | 9 | 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6000 | 2 | 9 | 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| l. | Winch drum first layer wire rope pitch diameter shall be at least 18 times the 3/8 wire rope diameter per ANSI B30.5 The winch drum shall be at least 6 in. wide between flanges. The winch drum shall have sufficient capacity to allow 100 ft. of wire rope to be used. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| m. | The standard 3/8 in. diameter 7 x 19 galvanized aircraft wire rope shall be 100ft long and fitted with a G414-3/8 (or comparable) thimble. The wire rope shall have a minimum breaking strength of 14,400 lbs. or more than 3-1/2 times the 3000 lb. rated single line capacity per ANSI B30.5. The wire rope shall be outside of the boom so that the wire rope and winch drum are visible to the operator. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |

- n. The crane shall be supplied with a snatch block for two part line operation. The snatch block shall allow for quick conversion to an overhaul weight for single part line operation. The snatch block shall be provided with a 4-1/2 ton carbon steel swivel hook with safety latch. The sheave shall be of polymer composite material and have a pitch diameter of at least 16 times the 3/8 wire rope diameter per ANSI B30.5. Sheave bearings shall be made of maintenance free composite material. _____
- o. The hydraulic powered rotation system shall have positive mechanical stops to limit the rotation to a maximum of 400 degrees with a rotation speed 2 RPM. The rotation drive line shall be self-locking. The crane housing shall rotate on a sealed turntable style bearing. _____
- p. The crane shall have a wireless remote control pendant and a back-up wired control _____
- q. The crane shall have an overload sensing system that shuts off the winch up, boom down, and boom out functions to prevent excessive overloads when the crane capacity is exceeded. The winch down, boom up, boom in, and rotation function shall remain in operation to get the crane out of the overload condition. _____
- r. An anti-two-blocking feature shall be provided to prevent damage to the wire rope by disabling the winch up , boom down , and boom out functions (three function shut down) _____
- s. The crane shall be painted with imron Yellow High Solids Polyurethane Enamel. _____
- t. Maximum lifting capacity shall be 6,000 lb. _____
- u. Boom length shall be 20' with full Hydraulic Boom Extension 10'-20.' _____
- v. Boom Elevation shall be capable of -8 degrees to + 75 degrees. _____
- w. Boom Capacities : _____
 Both Booms Retracted: ----- (10') from centerline of crane / 4,400 lbs.
 Hydraulic Boom Extended: ----- (16') from centerline of crane / 2,550 lbs.
 Both Booms Extended: ----- (20') from centerline of crane / 2,000 lbs

2 Heavy –Duty hydraulic down / hydraulic extending outriggers installed at rear of body. _____

3 Outrigger Control valves installed at rear of body. _____

4 Start / Stop W/ Guard Switch located at Rear of Body. _____

5 Throttle Switch / W Guard located at Rear of Body _____

6 Hydraulic Pump that is able to Handle Capstan Winch, Tool Circuit, and Hydraulic Crane. _____

7 Utility Line Body

Aerial service line step body, suitable for installation on a chassis with an approximate CA dimension of 84 "

		Yes	No
a.	Dimensions:		
	Overall Length -----146"	_____	_____
	Outside Width ----- 94"		
	Body Height ----- 40"		
	Compartment Depth ---18"		
	Bed Area -----58"		
b.	Body Floor and Top of Bins to be 12 gauge tread plate steel or better.	_____	_____
c.	Bins and Doors to be 16 gauge steel or better.	_____	_____
d.	Shelves to be 18 gauge steel or better.	_____	_____
e.	All doors shall have full-length stainless steel-rod door hinges, double panels, safety catches, chain supports on horizontal doors, gas props on all vertical doors, water guards and automotive type rubber door seals mechanically fastened with built-in drainage for maximum weather- tightness.	_____	_____
f.	Stainless steel rotary paddle latches with locks using a common key.	_____	_____
g.	Lockable latches shall be provided on all doors using a common key.	_____	_____
h.	Six D-rings recessed into floor, evenly spaced to strap down three padmount transformers. To be located at pre-paint inspection	_____	_____

Compartmentation on Street Side

1.	1 st Vertical --- (28") with Four (4) material drawers. Drawers each include a latch and are mounted on Roller Bearing Slides. One fixed shelf installed on top of drawer set. Adjustable dividers installed in each drawer on 6" centers.	_____	_____
2.	2 nd Vertical ---(28") Two (2) adjustable material shelves with removable dividers on 6" centers.	_____	_____
3.	Horizontal --- (52") One (1) material shelf with removable dividers on 6" centers. Shelf to be mounted 10" from bottom of compartment.	_____	_____
4.	Rear Vertical-(24") Five (5) fixed / adjustable material hooks 1-3-1. This Compartment to be vented.	_____	_____
5.	One (1) 132" L x 10" H x 18" W with Two (2) side Flip up access doors. Installed on Top of Street side body.	_____	_____

		Yes	No
6.	Heavy Duty Tool and Pole Rack 14" H x 21" W x 132" L Basket To be braced in the middle and equipped with 6-tie down eyes. Rack to be capable of carrying a 30' wood pole. To included ratchet binders for front and rear.	_____	_____
<u>Compartmentation on Curb Side</u>			
1.	Flatbed	_____	_____
8.	<u>Tail Shelf</u>		
a.	Tread plate tail shelf 12" L x full width of body x 18" high with thru compartment with drop down access doors on S/S & C/S.	_____	_____
b.	9-Lamp light bar with cut – out for directional light bar.	_____	_____
c.	2" Lip around perimeter of Tail Shelf notched for drainage.	_____	_____
d.	Bumper –Recessed Angled 2-Section 10" L x 3" H with Tread plate Top and heavy duty Tread plate full length step bumper.	_____	_____
9.	<u>Accessories</u>		
1.	PTO with indicator light in cab for automatic transmission.	_____	_____
2.	Back-up alarm to sound when the vehicle is shifted into reverse.	_____	_____
3.	Two (2) Rubber wheel chocks with eye bolt.	_____	_____
4.	Installed wheel chock storage pocket for two	_____	_____
5.	One (1) Mounting bracket for 3 gallon water cask for exterior mounting to be located at pre-paint inspection.	_____	_____
6.	One pair of mud flaps for rear axle.	_____	_____
7.	Boom support for truck mounted Crane.	_____	_____
8.	Cab Guard 58" W x 42" L made of 2" tubing covered with expanded metal and a 10" H tie rail on 4 sides. Frame and expanded metal to also provide protection for back glass of cab.	_____	_____
9.	<u>All external lighting to be LED.</u>	_____	_____
10.	LED 7-lamp DOT Lighting Package that complies with FMVSS 108.	_____	_____
11.	Two (2) 4" led amber Strobe Light & Guard with lighted toggle switch in cab. To be located at pre-paint inspection.	_____	_____

		Yes	No
12.	4-point led strobe system with two installed front and rear with lighted toggle switch in cab.	_____	_____
13.	LED Strip Compartment lighting with lighted toggle switch in cab.	_____	_____
14.	Two (2) LED cargo area flood lights with Guards and lighted toggle switch in cab.	_____	_____
15.	Two (2) LED Floodlights recessed in rear bumper under tail shelf area with lighted toggle switch in cab.	_____	_____
16.	One (1) LED Go-light installed behind cab with wireless remote control	_____	_____
17.	One (1) Traffic Advisor, LED arrow board, installed at rear with a protective guard and control mounted in cab.	_____	_____
18.	One Jensen Voyager Tri View Color backup System Part#VSS7694TILT) with blinker activated side cameras. Screen to be mounted on dash.	_____	_____
19.	Two (2) Reel, T-style 21.25" W x 11.5" T, to be located at pre-paint inspection	_____	_____
20.	Rope Bracket installed on SS rear with 1" rod with click pin	_____	_____
21.	Braden PCD-24B Hydraulic Capstan with control valve in cab and at rear of body. To include an aluminum capstan head and Collapsible take-up reel. The unit to be mounted on the curbside behind cab.	_____	_____
22.	Hydraulic cylinder for line payout with controls at rear. To included rope guide on end of cylinder. With side angle pull adjustment. To be Install behind crane and attached to floor.	_____	_____
23.	Hydraulic Tool Circuit at rear of truck under tailshelf with controls easily accessible to the operator. Circuit to provide a maximum of 6.0 gpm with tool system relief pressure set at 2,000 psi. Outlets to have shut off valves and quick-disconnect couplings. Circuit operates for open center tools.	_____	_____
24.	One 2000 watt inverter installed in chassis cab with two duplex receptacles one located SS rear Vertical and the other located on CS rear of tailshelf. One additional battery also provided.	_____	_____
25.	One six prong trailer receptacle mounted at rear.	_____	_____
26.	Five ton Receiver type hitch with frame reinforcements and a combination pintle hook and 2"ball installed on tube for use with receiver hitch.	_____	_____
27.	Two 10 pound fire extinguisher with mounting brackets.	_____	_____
28.	Bracket for 5 traffic cones storage. To be located at pre-paint inspection.	_____	_____

		Yes	No
29.	One Hotstick Holder to be 6" x 104" length with Hasting Canister Kit for 6" pipe. Pipe to be located at Pre-Paint inspection.	_____	_____
30.	Finish paint body and accessories white to match cab except for crane and bed.	_____	_____
31.	Apply non-skid black paint (ferrox) to all horizontal surfaces including compartments tops.	_____	_____
32.	Apply undercoating to body.	_____	_____
33.	Install one inch reflective strips on rear and both sides of body.	_____	_____
34.	One pair of rubber dock bumpers at rear	_____	_____

M-52, Underground installation Service Truck

The completed unit shall be certified by the bidder to meet all applicable local, state and federal requirements.

Design criteria shall be in accordance with current industry and engineering standards applicable and accepted for structural and hydraulic design safety factors.

Install crane behind cab, rear corner, Curbside. Install body and associated components on a 2017 Ford F-550 Super Duty XL 4x4 Super Cab and Chassis. Fill with hydraulic oil and lubricants and paint color of cab except for Crane and horizontal surfaces. Final test and inspection of completed unit (including function, stability testing and DOT inspection) per manufacturer's requirements and all other applicable standards.

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d. The boom shall be fabricated of ¼" plate steel in a hexagonal shape to minimize boom flex and side to side movement. The boom shall telescope to provide a horizontal reach range of 10 ft. / 0 in. to 20ft. / 0 in. using a hydraulic power extension cylinder with a 10ft. stroke.	_____	_____
e. The boom shall be extended by a double –acting hydraulic cylinder with an integral counterbalance valve to prevent the boom from retracting should a loss of hydraulic pressure occur. The cylinder shall be mounted inside of the boom. The extension boom shall have bearing pads on 4-sides made from UHMW polyethylene to provide low friction and wear rate without the use of lubricants. The extension speed shall be 24 ft./min @ 2.25 GPM. The retract speed shall be controlled by a priority flow control valve (1.25 GPM) to maintain a speed of 10 ft./min .	_____	_____
f. The boom elevation angle range shall extend from -8 degrees below horizontal to 75 degrees above horizontal. It shall be elevated by a double –acting hydraulic cylinder with an integral counterbalance valve to prevent the boom from lowering should a loss of hydraulic pressure occur. The lowering rate shall be controlled by a priority flow control valve (1.75GPM) to govern the rate of descent (75 to -8 degrees in 37 seconds).	_____	_____

- | | | Yes | No | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|--|---|--|---|---|---|----|----|------|---|----|----|------|---|----|----|------|---|---|----|------|---|---|----|--|--|
| g. | The boom end load hoisting sheave shall be made of polymer composite material and have a pitch diameter of at least 18 times the 3/8 wire rope diameter per ANSI B30.5 Sheave bearings shall made of maintenance free composite material . | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| h. | Easy to read capacity charts with indicator arrows showing boom angles and capacities for various reaches shall be located on each side of the boom. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| i. | The winch shall have a high efficiency planetary gear reduction with an oil-immersed automatic load holding multi-disk brake and shall be driven by an orbital hydraulic motor with a counterbalance valve. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| j. | The Winch line capacity shall be 3000 lbs. minimum on all layers. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| k. | The nominal winch performance shall be as follows: | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3000 | 2 | 9 | 30 | | | | | | | | | | | | | | | | | | | | | | | | |
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| l. | Winch drum first layer wire rope pitch diameter shall be at least 18 times the 3/8 wire rope diameter per ANSI B30.5 The winch drum shall be at least 6 in wide between flanges. The winch drum shall have sufficient capacity to allow 100 ft. of wire rope to be used. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| m. | The standard 3/8 in. diameter 7 x 19 galvanized aircraft wire rope shall be 100ft. long and fitted with a G414-3/8 (or comparable) thimble. The wire rope shall have a minimum breaking strength of 14,400 lbs. or more than 3-1/2 times the 3000 lb. rated single line capacity per ANSI B30.5. The wire rope shall be outside of the boom so that the wire rope and winch drum are visible to the operator. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| n. | The crane shall be supplied with a snatch block for two part line operation. The snatch block shall allow for quick conversion to an overhaul weight for single part line operation. The snatch block shall be provided with a 4-1/2 ton carbon steel swivel hook with safety latch. The sheave shall be of polymer composite material and have a pitch diameter of at least 16 times the 3/8 wire rope diameter per ANSI B30.5. Sheave bearings shall be made of maintenance free composite material. | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |

		Yes	No
o.	The hydraulic powered rotation system shall have positive mechanical stops to limit the rotation to a maximum of 400 degrees with a rotation speed 2 RPM. The rotation drive line shall be self-locking. The crane housing shall rotate on a sealed turntable style bearing.	_____	_____
p.	The crane shall have a remote control pendant with water proof switches, a switch bat guard, a hook for hanging the pendant. The pendant shall be easily operated with one hand and removable for storage.	_____	_____
q.	The crane shall have an overload sensing system that shuts off the winch up, boom down, and boom out functions to prevent excessive overloads when the crane capacity is exceeded. The winch down, boom up, boom in, and rotation function shall remain in operation to get the crane out of the overload condition.	_____	_____
r.	An anti-two-blocking feature shall be provided to prevent damage to the wire rope by disabling the winch up, boom down, and boom out functions (three function shut down)	_____	_____
s.	The crane shall be painted with imron Yellow High Solids Polyurethane Enamel.	_____	_____
t.	Maximum lifting capacity shall be 6,000 lb.	_____	_____
u.	Boom length shall be 20' with full Hydraulic Boom Extension 10'-20.'	_____	_____
v.	Boom Elevation shall be capable of -8 degrees to + 75 degrees.	_____	_____
w.	Boom Capacities :	_____	_____
	Both Booms Retracted: ----- (10') from centerline of crane / 4,400 lbs.		
	Hydraulic Boom Extended: ----- (16') from centerline of crane / 2,550 lbs.		
	Both Booms Extended: ----- (20') from centerline of crane / 2,000 lbs		
2	Heavy –Duty hydraulic down / hydraulic extending outriggers installed at rear of body.	_____	_____
3	Outrigger Control valves installed at rear of body.	_____	_____
4	Start / Stop Switch W/ Guard located at Rear of Body.	_____	_____
5	Throttle Switch / W Guard located at Rear of Body	_____	_____
6	Hydraulic Pump that is able to Handle Outriggers and Hydraulic Crane.	_____	_____

7 Utility Line Body

Aerial service line step body, suitable for installation on a chassis with an approximate CA dimension of 84 “.

	Yes	No
a. Dimensions :		
Overall Length -----126”	_____	_____
Outside Width ----- 94”		
Body Height ----- 40”		
Compartment Depth ---18”		
Bed Area -----58”		
b. Body Floor and Top of Bins to be 12 gauge tread plate steel or better.	_____	_____
c. Bins and Doors to be 16 gauge steel or better.	_____	_____
d. Shelves to be 18 gauge steel or better.	_____	_____
e. All doors shall have full-length stainless steel-rod door hinges, double panels, safety catches, chain supports on horizontal doors, gas props on all vertical doors, water guards and automotive type rubber door seals mechanically fastened with built-in drainage for maximum weather- tightness.	_____	_____
f. Stainless steel rotary paddle latches with locks using a common key.	_____	_____
g. Lockable latches shall be provided on all doors using a common key.	_____	_____

Compartmentation on Street Side

1. 1 st Vertical --- (30”) Lift-up access steps to bed area (Gas Cylinders , Latch & Vented) with two sloped grab handles to help with accesses.	_____	_____
2. Horizontal --- (54”) Two (2) adjustable material shelves with removable dividers on 6” centers	_____	_____
3. Rear Vertical-(24”) One (1) fixed plain shelf. (Compartment Vented)	_____	_____
4. Street Side Top Mounted box with one (1) 78” L x 16” H x 18” W with Two (2) side dropdown access doors. Installed on Top of Street side body.	_____	_____

Compartmentation on Curb Side

- 1. 1st Vertical --- (30") Four (4) material drawers. Drawers each include a latch and are mounted on Roll Bearing Slides. One (1) fixed shelf installed on top of drawer set. Adjustable dividers installed in each drawer on 6" centers. _____
- 2. Horizontal --- (54") Two (2) adjustable material shelves with removable dividers on 6" centers. _____
- 3. Rear Vertical – (24") Five (5) Fixed Material Hooks 1-3-1. Compartment reinforced for Crane installation. _____

Tool Box

- 1. One (1) -24" L x 18" H x 17" W with dropdown side access door. Two (2) material drawers. Drawers each include a latch and are mounted on Roller Bearing Slides. Adjustable dividers installed in each drawer on 6" centers. Installed on Curb Side Rear Tail Shelf. _____

8. Tail Shelf

- a. Tread plate tail shelf 18" L x full width of body x 18" high with thru compartment with drop down access doors on S/S & C/S. _____
- b. 9-Lamp light bar with cut – out for directional light bar. _____
- c. 2" Lip around perimeter of Tail Shelf notched for drainage. _____

9. Accessories

- 1. PTO with indicator light in cab for automatic transmission. _____
- 2. Back-up alarm to sound when the vehicle is shifted into reverse. _____
- 3. Two (2) Rubber wheel chocks with eye bolt. _____
- 4. Installed wheel chock storage pocket each side. _____
- 5. One (1) Mounting bracket for 3 gallon water cask for exterior mounting to be located at pre-paint inspection. _____
- 6. One pair of mud flaps for rear axle. _____
- 7. Boom support for truck mounted Crane. _____
- 9. All external lighting to be LED. _____

		Yes	No
10.	LED 7-lamp DOT Lighting Package that complies with FMVSS 108.	_____	_____
11.	Two (2) 4" led amber Strobe Light & Guard with lighted toggle switch in cab. To be located at pre-paint inspection	_____	_____
12.	4-point led strobe system with two installed front and rear with lighted toggle switch in cab.	_____	_____
13.	LED Strip Compartment lighting with lighted toggle switch in cab.	_____	_____
14.	Two (2) LED cargo area flood lights with Guards and lighted toggle switch in cab.	_____	_____
15.	Two (2) LED Floodlights located under tail shelf area with lighted toggle switch in cab.	_____	_____
16.	One (1) Traffic Advisor, LED arrow board, installed at rear with a protective guard and control mounted in cab.	_____	_____
17.	One Jensen Voyager Tri View Color backup System Part#VSS7694TILT) with blinker activated side cameras. Screen to be mounted on dash.	_____	_____
18.	One (1) LED Go-light installed behind cab with wireless remote control	_____	_____
19.	One 2000 watt inverter installed in chassis cab with two duplex receptacles one located SS rear Vertical and the other located on CS rear of tailshelf. One additional battery also provided.	_____	_____
20.	One six prong trailer receptacle mounted at rear.	_____	_____
21.	Five ton Receiver type hitch with frame reinforcements and a combination pintle hook and 2"ball installed on tube for use with receiver hitch.	_____	_____
22.	Two 10 pound fire extinguisher with mounting brackets.	_____	_____
23.	Finish paint body and accessories white to match cab except for crane and bed.	_____	_____
24.	Apply non-skid black paint (ferrox) to all horizontal surfaces including compartments tops.	_____	_____
25.	Apply undercoating to body.	_____	_____
26.	Install one inch reflective strips on rear and both sides of body.	_____	_____
27.	One pair of rubber dock bumpers at rear	_____	_____

		Yes	No
28.	Two Hotstick Holders to be 6" x 104" length with Hasting Canister Kit for 6" pipe. To be located at Pre-Paint inspection.	_____	_____
29.	Two Spindle Bar Kits mounted perpendicular to the axle large enough to hold two wooded reels with 1000' in length of 4/0 Al triplex underground service cable that are installed in the bed area. To have a four-way roller system for feeding the wire off the curb side.	_____	_____
30.	One My-TE Winch Capstan mounted on a swivel base with control on winch to be removable and installed on SS rear of Tail Shelf.	_____	_____
31.	Bracket for 5 traffic cones storage. To be located at pre-paint inspection.	_____	_____

Chassis

Provide two Ford Super Duty 2017 F-550 XL 4x4 Super Cab 192.00 WB 84"CA with a 19,500 # GVW and automatic transmission with these minimum requirements.

	Yes	No
1. 2017 Ford F-550 Super Duty XL 4x4 Super cab and chassis	_____	_____
2. 19,500 lb GVWR	_____	_____
3. 84" cab to axle	_____	_____
4. 6.8L V10 gas engine	_____	_____
5. TorqShift 6-speed automatic transmission with O/D	_____	_____
6. Limited slip rear axle with 4.88 ratio	_____	_____
7. 19,500 lb Payload plus upgrade package	_____	_____
8. 225/70Rx19.5G BSW traction tires	_____	_____
9. Wheels 19.5"	_____	_____
10. HD Vinyl 40/20/40 Split bench seat	_____	_____
11. XL Value Package	_____	_____
12. Extra Heavy Service Front Suspension Package	_____	_____
13. High Capacity Trailer Tow Package	_____	_____
14. Paint cab white	_____	_____
15. Trailer Brake Control	_____	_____
16. Transmission PTO Provision for hydraulic pump With Mobile Mode	_____	_____
17. 6" Angular black molded-in-color running board	_____	_____
18. Engine exhaust to exit on street side.	_____	_____

If there are additional options required or recommended, bring this to the Attention of "MED" at the bid opening.

Warranty

Unless otherwise specified the Service Bed, Crane, and accessories shall be warranted by manufacture for two years from date of delivery against defects in parts or workmanship. If possible, the repair to be performed at MED.

During such warranty period, the Vendor shall replace at no charge, or repair or service, any defective or unsatisfactory items. If such items cannot be repaired within five (5) days from notice to the Vendor of such defect, the Vendor shall provide a substitute item at no additional charge.

Vendor warrants that from the date of delivery and through the warranty period, the equipment and accessories provided shall be free of any defects that interfere with or prohibit the use of the goods for the purposes for which they were obtained.

The chassis warranty is specified in the manufacturer's warranty.