REGULAR COUNCIL MEETING OF THE COUNCIL OF THE CITY OF BROOK PARK, OHIO TO BE HELD ON TUESDAY, MAY 16, 2023 7:30 P.M.

- A. ROLL CALL OF MEMBERS
- B. PLEDGE OF ALLEGIANCE
- C. APPROVAL OF MINUTES OF PRECEDING MEETINGS:
 - 1. CAUCUS PRIOR TO MEETING MINUTES HELD ON APRIL 18, 2023. Moved from May 2, 2023 Council Meeting.
 - 2. REGULAR COUNCIL MEETING MINUTES HELD ON APRIL 18, 2023. **Moved from May 2, 2023 Council Meeting.**
 - 3. CAUCUS PRIOR MEETING MINUTES HELD ON May 2, 2023.
 - 4. REGULAR COUNCIL MEETING MINUTES HELD ON May 2, 2023.
- D. <u>REPORTS OF STANDING COMMITTEES:</u>

Aviation & Environmental Committee - Chairman, Poindexter Finance Committee - Chairman, Scott

Legislative Committee - Chairman, Coyne

Parks & Recreation Committee - Chairman, Mencini

Planning Committee - Chairman, Troyer

Safety Committee - Chairman, Roberts

Service Committee - Chairman, Poindexter

Board of Zoning Appeals - Chairman, Salvatore

E. REPORTS OF SPECIAL COMMITTEES:

Southwest General Health Center Trustee, Mencini
Berea Board of Education Representative, Coyne
Technology & Innovation Council Representative, Poindexter

- F. REPORTS OF BOARDS AND COMMISSIONS:
- G. INTRODUCTION OF RESOLUTIONS OF COMMENDATION:
- H. REPORTS AND COMMUNICATIONS FROM THE MAYOR:
- I. REPORTS AND COMMUNICATIONS FROM DEPARTMENTS, COMMISSIONS, AND OTHER PUBLIC OFFICIALS:
- J. OTHER COMMUNICATIONS AND PETITIONS, AND VERBAL APPROVAL: (INTRODUCTION OF NEW LEGISLATION):

K. MISCELLANEOUS BUSINESS, APPOINTMENTS, CONFIRMATIONS:

L. REMARKS FROM THE AUDIENCE ON ANY SUBJECT MATTER:

M. ORDINANCES AND RESOLUTIONS FIRST READING:

- 1. ORDINANCE NO. 11331-2023
 AN ORDINANCE AUTHORIZING THE MAYOR TO PARTICIPATE IN THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF OIL AND GAS RESOURCES MANAGEMENT'S (DIVISION) ORPHAN WELL PROGRAM, TO PLUG AN ORPHANWELL LOCATED IN THE RIGHT-OF-WAY AT 5841 RUPLE ROAD, AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt.
- 2. ORDINANCE NO. 11332-2023 AN ORDINANCE CREATING FUND #550, THE SHELDON ROAD BRIDGE IMPROVEMENT PROJECT FUND, AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt.
- 3. ORDINANCE NO. 11333-2023
 AN ORDINANCE AUTHORIZING THE CITY OF BROOK PARK TO ACCEPT DONATED FUNDS, AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt.
- 4. ORDINANCE NO. 11334-2023
 AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO AN AGREEMENT WITH SUTPHEN CORPORATION, BASED UPON SOURCEWELL CONTRACT NO. 113021-SUT FOR THE PURCHASE OF ONE NEW SUTPHEN HEAVY DUTY CUSTOM PUMPER TRUCK AND RELATED MISCELLANEOUS EQUIPMENT, AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt.
- 5. ORDINANCE NO. 11335-2023
 AN ORDINANCE AUTHORIZING THE MAYOR TO EXECUTE A PROJECT
 AGREEMENT WITH NORTHEAST OHIO REGIONAL SEWER DISTRICT FOR THE
 SHELDON ROAD PROFILE RAISING AND BRIDGE REPLACEMENT DESIGN
 PROJECT, AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt.
- 6. ORDINANCE NO. 11336-2023
 AN ORDINANCE AMENDING ORDINANCE 11233-2021, WHICH AUTHORIZED THE MAYOR TO ENTER INTO A CONTRACT WITH CONSTRUCTION RESOURCES, INC. TO PREPARE DETAIL DRAWINGS, SPECIFICATIONS, AND BID PACKAGES FOR THE NATATORIUM REPAIR, AND A ROOF STUDY, AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt.

M. ORDINANCES AND RESOLUTIONS: FIRST READING: CONT.

- 7. ORDINANCE NO. 11337-2023
 AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO A
 COMMUNITY COST-SHARE AGREEMENT BY AND BETWEEN THE
 NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORSD) AND THE
 CITY OF BROOK PARK, FOR THE STORMWATER MCM #6
 IMPLEMENTATION, AND DECLARING AN EMERGENCY. Introduced by
 Mayor Orcutt.
- 8. ORDINANCE NO. 11338-2023
 AN ORDINANCE AUTHORIZING THE MAYOR TO DISPOSE OF OBSOLETE CITY VEHICLES THAT ARE UNSAFE AND NO LONGER ROAD WORTHY, AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt.
- 9. ORDINANCE NO. 11339-2023 AN ORDINANCE AUTHORIZING THE MAYOR TO TRADE-IN THE CITY'S 2007 NEW HOLLAND W170B WHEEL LOADER, AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt.
- 10. RESOLUTION NO. 5-2023
 A RESOLUTION TO EXTEND THE MORATORIUM ON VAPE AND SMOKE
 ESTABLISHMENTS OR SHOPS WITHIN THE CITY OF BROOK PARK FOR A PERIOD OF
 NOT MORE THAN 12 MONTHS, AND DECLARING AN EMERGENCY. Introduced by
 Mayor Orcutt.
- 11. RESOLUTION NO. 6-2023
 A RESOLUTION DECLARING THE MONTH OF MAY AS LUPUS AWARENESS MONTH IN THE CITY OF BROOK PARK, AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt & C/W.
- N. SECOND READING OF ORDINANCES AND RESOLUTIONS:
- O. THIRD READING OF ORDINANCES AND RESOLUTIONS:
- P. ADJOURNMENT:

SYNOPSIS OF ORDINANCES AND RESOLUTIONS FOR THE COUNCIL MEETING OF MAY 16, 2023

Ord. No. 11331-2023 AN ORDINANCE AUTHORIZING THE MAYOR TO PARTICIPATE IN THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF OIL AND RESOURCES MANANGEMENT'S PROGRAM, TO PLUG AN ORPHAN WELL LOCATED IN THE RIGHT-OF-WAY AT 5841 RUPLE ROAD, AND DECLARING AN EMERGENCY

SYNOPSIS: An ordinance authorizing the Mayor to notify the ODNR, Division of Oil and Gas Resources Management's Division Orphan Well Program about the orphan well located in the right-of-way at 5841 Ruple Road, and to enter into any necessary agreements with Ronald A. Gibson & Associates to plug the well.

Ord. No. 11332-2023 AN ORDINANCE CREATING FUND #550, THE SHELDON ROAD BRIDGE IMPROVEMENT PROJECT FUND, AND DECLARING AN EMERGENCY.

SYNOPSIS: An ordinance authorizing the Finance Director to create a reimbursement Fund for the Sheldon Road Bridge Improvement Project Fund.

AN ORDINANCE AUTHORIZING THE CITY OF BROOK PARK TO ACCEPT DONATED FUNDS, AND DECLARING AN EMERGENCY. Ord. No.11333-2023

An ordinance authorizing the City of Brook Park to accept \$2,000.00 donated from Blue Line Unlimited to the Brook Park Police Department.

AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO AN AGREEMENT WITH SUTPHEN CORPORATION, BASED UPON SOURCEWELL Ord. No.11334-2023 CONTRACT NO. 113021-SUT FOR THE PURCHASE OF ONE NEW SUTPHEN HEAVY DUTY CUSTOM PUMPER TRUCK, AND DECLARING AN EMERGENCY.

SYNOPSIS: An ordinance to purchase a new fire pumper truck.

AN ORDINANCE AUTHORIZING THE MAYOR TO EXECUTE A PROJECT AGREEMENT WITH NORTHEAST OHIO REGIONAL SEWER DISTRICT FOR Ord. No.11335-2023 THE SHELDON ROAD PROFILE RAISING AND BRIDGE REPLACEMENT DESIGN PROJECT, AND DECLARING AN EMERGENCY.

An ordinance authorizing the Mayor to enter into an agreement with the Sewer District to fix the Sheldon Road Bridge, at the District's cost.

11233-2021, ORDINANCE AUTHORIZED THE MAYOR TO ENTER INTO A CONTRACT WITH Ord. No.11336-2023

CONSTRUCTION RESOUCES, INC. TO PREPARE DETAIL DRAWINGS, SPECIFIACTIONS, AND BID PACKAGES FOR THE NATATORIUM REPAIR, AND A ROOF STUDY, AND DECLARING AN EMERGENCY.

SYNOPSIS: An ordinance amending Ordinance 11233-2021, updating the pricing.

Ord. No.11337-2023 AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO A COMMUNITY COST-SHARING AGREEMENT BY AND BETWEEN THE NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORSD) AND THE CITY OF BROOK PARK, FOR THE STORMWATER MCM #6 IMPLEMENTATION, AND DECLARING AN EMERGENCY.

SYNOPSIS: An ordinance authorizing the Community Cost-Sharing Agreement project to clean approximately 300 stormwater catch basins and dispose of the approximately 400 cubic yards of materials from that clean up.

Ord. No.11338-2023 AN ORDINANCE AUTHORIZING THE MAYOR TO DISPOSE OF OBSOLETE CITY VEHICLES THAT ARE UNSAFE AND NO LONGER ROAD WORTHY, AND DECLARING AN EMERGENCY.

SYNOPSIS: An ordinance authorizing the Mayor to dispose of obsolete, unsafe city vehicles.

Ord. No.11339-2023 AN ORDINANCE AUTHORIZING THE MAYOR TO TRADE-IN THE CITY'S 2007 NEW HOLLAND W170B WHEEL LOADER, AND DECLARING AN EMERGENCY

SYNOPSIS: An ordinance authorizing the Mayor to trade in the City's old Wheel Loader for a \$30,000.00 credit towards a new 2023 John Deere 544P Wheel Loader.

Res. No. 5-2023 A RESOLUTION TO EXTEND THE MORATORIUM ON VAPE AND SMOKE ESTABLISHMENTS OR SHOPS WITHIN THE CITY OF BROOK PARK FOR A PERIOD OF NOT MORE THAN 12 MONTHS, AND DECLARING AN EMERGENCY.

SYNOPSIS: A resolution extending the moratorium on vape and smoke establishments or shops for a year.

Res. No 6-2023 A RSOLUTION DECLARING THE MONTH OF MAY AS LUPUS AWARENESS MONTH IN THE CITY OF BROOK PARK, AND DECLARING AN EMERGENCY.

SYNOPSIS: A resolution declaring the month of May as Lupus Awareness Month in the City of Brook Park.

PREPARED BY THE BROOK PARK LEGAL DEPARTMENT May 10, 2023



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CITY OF BROOK PARK, OHIO

ORDINANCE NO: <u>11331-202</u>3

INTRODUCED BY: MAYOR ORCUTT

AN ORDINANCE AUTHORIZING

THE MAYOR TO PARTICIPATE IN THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF OIL AND GAS RESOURCES MANANGEMENT'S (DIVISION) ORPHAN WELL PROGRAM, TO PLUG AN ORPHAN WELL LOCATED IN THE RIGHT-OF-WAY AT 5841 RUPLE ROAD, AND DECLARING AN EMERGENCY

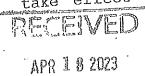
WHEREAS, it has come to the attention of the administration that there is an orphan well that needs to be plugged located in the right-of-way at 5841 Ruple Road in the City of Brook Park, Ohio; and

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: The Mayor is hereby authorized to notify the ODNR, Division of Oil and Gas Resources Management's Division Orphan Well Program about said orphan well; and the Mayor is further authorized to enter into any necessary agreements to plug the well, through Ronald A. Gibson & Associates, Inc., further described in Exhibit "A".

It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 3: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason to authorize the Mayor to notify and seek approval for plugging the orphan gas well in the right-of-way at 5841 Ruple Road; therefore, provided this ordinance receives the affirmative vote of at least five (5) members elected to Council. take effect and be in force immediately upon its passage and



approval by period allow	the Mayor; ed by law:	otherwise,	from and	after the	earliest
PASSED:			PRESIDE	NT OF COUNC	:IL
ATTEST:	erk of Counc		PROVED:	MAYO	R ·
0.1.				DATE	

I HEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTNESS.

DIRECTOR OF LAW

Ronald A Gibson & Associates, Inc. Gibson Energy Services

32254 Country Club Drive Ayon Lake, Ohio 44012 Telephone: (440) 396-6157 Email: ragibsonpe@gmail.com



January 23, 2023

Edward A. Orcutt, Mayor City of Brook Park, Ohio 6161 Engle Road Brook Park, Ohio 44142

Re: Professional Services Agreement ODNR Landowner Passthrough Project

Dear Mr. Edward Orcutt;

The ODNR's orphan well plugging program's Landowner Pass Through Payment ("LOPT") Program requires that the landowner of an approved well present three (3) qualified well plugging blds to the ODNR. The bids are subject to the ODNR form plugging contract made specific to the landowner's well and which includes a well plugging design and contractor scope of work.

The ODNR allows the landowner to seek assistance in the LOPT program process from industry experts. The ODNR will pay professional service fees to a plugging project manager, who prepares the necessary paperwork and conducts the necessary well inspections.

This agreement is intended to establish the relationship between the City of Brook Park, as landowner, and Gibson Energy Services ("Gibson") as your LOPT well plugging project manager. Under this agreement, Gibson will perform the following:

1. Conduct a well inspection and prepare and inspection report;

2. Prepare applications for the ODNR Orphan plugging program and the LOPT program;

3. Prepare a Gas Well Plugging Bid Request for 3 qualified plugging contractors;

4, Prepare a LOPT Payment Plugging Application with Well Plugging and Restoration Agreement;

5. Assist in the submission of a final invoice to the ODNR (if necessary).

The City of Brook Park, as landowner, agrees to require the plugging contractor with the successful plugging bid pay Gibson a Professional Services Fee of \$3,500 and Well Inspection Fee of \$750. These fees will be line items on the Scope of Work Offer Sheet and will be described in the plugging agreement exhibits. The plugging contractor will submit the Offer Sheet as part of its final invoice and will be reimbursed by the ODNR for Gibson's professional services fee. The landowner is not responsible for this fee or any other plugging cost.

Sincerely, Ronald A Gibson Ronald A. Gibson, P.E. Agreed To and Accepted this 5841 Ruple Parkway #1 Day of _____ Well Name: 5841 Ruple Road Location: Brook Park, OH 44142 Signed: 34-035-61299 API. Printed:

January 23, 2023

Mr. Jason A. Simmerman, P.E. Natural Resource Engineer Ohio Department of Natural Resources Div of Oil & Gas Resources Management

Re:

5841 Ruple Parkway #1 Olmsted Township, Cuyahoga County, Ohio API #34-035-61299

Dear Mr. Simmerman:

Attached is my Landowner Pass-Through Payment Program ("LOPT") Commitment form, Also attached is a well inspection report conducted by Gibson Energy Services. This report describes the approximate well casing and depth of the orphan well on my property,

Please begin the LOPT process as it pertains to the well on my property,

Please call my phone number of (216) 385-1010 if you have any questions regarding this matter.

Sincerely,

Paul F. Marnecheck Commissioner of Economic Development City of Brook Park, Ohio

Attachments: LOPT Commitment Form

Well Inspection Report

ROE for Plugging & Restoration

Wellbore Photo

ODNR Well Summary

Auditor Report



OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL & GAS RESOURCES MANAGEMENT 2045 Morse Road, F-2 • Columbus, OH 43229-6693

Orphan Well Program

Commitment to Landowner Pass-through Payment Program Rev. 01/23

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Surface Landowner Name:	City of Brook Park	Date:	01/23/2023			
Mailing Address:	6161 Engle Road					
•	Brook Park		Oh	<u> </u>] ,	
Phone:	(216) 385-1010	Surface	Prop	erty Purchas	e Date:	City Right-of-Way
Email:	PMarnecheck@cityof	brookpark,c	om			
Well API Number:	34 -035-61299		·	Count	y: Cuy	ahoga
Well Name:	5841 Ruple Parkway	#1		Townshi	p: Ölm	isted
Last Known Well Owner:	Unkown			<u> </u>		
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SIGNATURE OF SU	IRFACE LANDOWNER			DA	te sign	ED

Return to:
ODNR Division of Oil and Gas Resources Management
c/o Orphan Well Program
2045 Morse Road, Building F-1
Columbus, Ohio 43229





OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL & GAS RESOURCES MANAGEMENT 2045 Morse Road, F-3, Columbus, OH 43229 (614) 265-6866 • Fax (339) 308-0011

Orphan Well Program

Right of Entry for Plugging and Restoration Rev. 01/21

	r Information			Date:	1/23/2023	MIDIY	γγγ
me(s):	City Of Brook Park			- Manai	(216) 385	-1010	
ddress:	6161 Engle Road		· · · · · · · · · · · · · · · · · · ·	Phone:	1 -	neck@cityofbroc	kpark.com
	Brook Park.	ОН	44142	Email:	pmameor		
vell Infor	mation			Lease N	lame:	5841 Ruple Par	kway #1
ounty:	Cuyahoga	<u> </u>			,	34-035-61299	
Township:	Ölmsfed	·		Last Ki	Number: nown	Unknöwn	<u>:</u>
Section! Lot Number:	Lot 36			Well O	wner: roduction:		
Address:	5841 Ruple Road			1	roperty	Çity R-Q-W	M/D/YYYY
	Brook Park	Ol	1 44142	Purch	ased.	Qid i v	
Parcel IDs:	341-32-017						nrv
•	tory Please include an	v informat	ion you know a	bout this well. At	tach separat	e sneet it necesse ark. OH 44142.	
Orphan We	tory Please include an	ght-of-Wa	y in front of 5	841 Ruple Roa	u, phosic		
			 			the Division to	
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WELL SUMMARY

ODNR DIVISION OF OIL & GAS RESOURCES MANAGEMENT

WELL SUMM	IARY				OD:	NR DIVI	SION OF	, 50 ctf		Ţ	ermit Issued		
	3403561 5841 R(ó Krkway		Acres		Well'No. Well No.	l.			Date Commenced Date Completed		1/1/1900
Owner Logging Co. County Section	CUYA	HOGA Lot 36	Township Tract	Core No. OEMSTED RACT 6 LOT 36 (SC	Twp. Qu.	Önaqraųčje, Samble yoʻ	NORTH OLD	2169874 n -81,88075)	5 Lát	634363. (41,406236 634391 Cláss	Zone Bottom X Bettom Lon Bettom X Tool	Y Lat Y	nad27 Nad27 Nad27 Nad83 SPS
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	w . 3 f			•	Water (Barrels).	Remarks
Annual	Production	ofa	Oil (Barrels)	Gas (MCF)	Area v	•
'Year	Quarter	Source				

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Cuyahoga County, Ohio - Property Summary Report Parcel: 341-32-017



Owner Address:

Land Use

MARTIN, STANLEY PAUL 5841 RUPLE RD

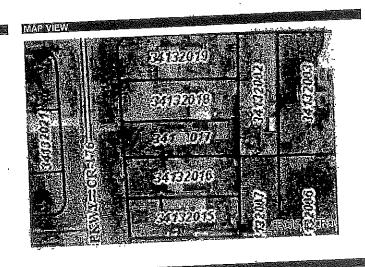
BROOK PARK, OH. 44142

(5100) R • 1-FAMILY PLATTED LOT TR#6-36 VALLVEST#2 0065 ALL

Legal Description Neighborhood Code

06101

SKETCH . Building 1 1111



BUILDING INFORMATION Occupáncy. Building Record Number Year Built RÁNCH Çonstrücijon Quality Style AVERAGE ASPH-SHINGLE Condition Heat Type Basement Type Roof Material NONE Anic Type Rooms Νp Basement Finished Galage Type f/O Bathrooms (Full/Hall) Garage Size 1970 Year Garage Built Living Area 2 999 Living Area † Floor Location .009. Living Area Total PAND an - Acreage : The Street. ."Depth Gode' (- v. Frontage - / _ . . . 7,800 0.18

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PERMIS. Paragraph Notes
HERMUS Reinspect Notes.
Tax Year [®] , Reason. Tax Change , Exempt Change ¹ Percent Complete Reinspect Notes .

Fauq Nae Lojat, Aajna Brijgjud, Aajna Fauq Aajna	Taxable : 2 Market Value \$27,500 \$113,900 \$141,500 5100	Exampt : Market Value \$0 \$0	"`` Absied *.' Markot Value \$0 \$0	Assessed Select	
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	GREËNE, STACEY ANN Nachman Sigmund W & Janet M	\$119;000 \$0
11/29/2021. GREENE, STACEY ANN 2/9/2010 GREENE, STACEY ANN 11/1975 Nachman Slomund W & Janet M		
Taxes	Pake Andrews The Company Town The Transfer Town The Transfer Town The Transfer Town Town Town Town Town Town Town Town	ince Dub 😲

Charges 12 2024, Taxes of the contract of the Tax Balance Summary

THE VALLEY VIEW LAND COMPANYS ALLEY VIEW ESTATES SUBDIVISION Nº22







CITY OF BROOK PARK, OHIO

Finance PIC 5/8/23 CA _____ 1stR 2nd R 3rd R

ORDINANCE NO: 11332-2023

INTRODUCED BY: MAYOR ORCUTT

AN ORDINANCE

CREATING FUND #550, THE SHELDON ROAD BRIDGE IMPROVEMENT PROJECT FUND, AND DECLARING AN EMERGENCY.

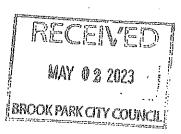
NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: The Director of Finance/Assistant Finance Director is authorized and directed to create a new Fund #550, the Sheldon Road Bridge Improvement Project Fund.

SECTION 2: Fund #550 shall serve as a reimbursement Fund. The City of Brook Park will pay Euthenics, who will be reimbursed by the Northeast Ohio Regional Sewer District, in accordance with the Project Agreement. Northeast Ohio Regional Sewer District shall reimburse the City of Brook Park, in an amount up to \$1,175,945.00.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for further reason that Council desires to create Fund #550, therefore, provided this ordinance receives the affirmative vote of at least (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.



PASSED:		PRESIDENT OF COUNCIL
	CLERK OF COUNCIL	APPROVED:MAYOR
	CTEKK OF COOT.	DATE

THEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTNESS.

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CITY OF BROOK PARK, OHIO

ORDINANCE NO: <u>11333-202</u>3

INTRODUCED BY: MAYOR ORCUTT

AN ORDINANCE

AUTHORIZING THE CITY OF BROOK PARK TO ACCEPT DONATED FUNDS, AND DECLARING AN EMERGENCY

WHEREAS, Blue Line Unlimited wishes to give to those who serve and protect our community by providing a monetary donation in the amount of Two-Thousand (\$2,000.00) Dollars to the Brook Park Police Department; and

WHEREAS, Blue Line Unlimited requires that the donation be used for the necessary protective equipment and training of a Police K-9 and his/her accompanying Police handler; and

WHEREAS, all expenditures of this donation are to be used for the sole purposes listed in this ordinance.

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: The Council of the City of Brook Park hereby authorizes the City to accept this monetary donation and to disburse the funds as requested by the donor.

SECTION 2: This Ordinance authorizes the sum of Two Thousand (\$2,000.00) Dollars to be received and recorded into Fund No. 100, Cost Center No. 412 (Police Department) of the General Fund.

section 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.



emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further purpose of allowing the City to receive and disburse said funding; therefore provided this ordinance receives the affirmative vote of at least five (5) members elected to Council. It shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED:		PRESIDENT OF	COUNCIL
ATTEST;_	CLERK OF COUNCIL	APPROVED:	MAYOR
	•		DATE

THEREBY APPROVE THE WITHIN RINSTRUMENT AS TO LEGAL FORM AND LOPRING THESS.

DIRECTOR OF LAW

CITY OF	BROOK	PARK,	OHIC
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ORDINANCE NO: 11334-2023

INTRODUCED BY: MAYOR ORCUTT

AUTHORIZING THE MAYOR TO ENTER INTO AN AGREEMENT WITH SUTPHEN CORPORATION, BASED UPON SOURCEWELL CONTRACT NO. 113021-SUT FOR THE PURCHASE OF ONE NEW SUTPHEN HEAVY DUTY CUSTOM PUMPER TRUCK AND RELATED MISCELLANEOUS EQUIPMENT,

AND DECLARING AN EMERGENCY

WHEREAS, the City of Brook Park's Fire Department's pumper truck is 1994 model, with a life expectancy of twenty years; and

WHEREAS, this vehicle is well past its life expectancy, and needs to be replaced for the safety and security of Brook Park's

WHEREAS, this contract with Sutphen Corporation must be residents; and entered into by June 1, 2023 or the price will increase

WHEREAS, this new fire pumper truck shall be purchased through substantially; and Sourcewell Contract Number 113021-SUT, as further described in

WHEREAS, Herb Fire Equipment, an authorized representative of Exhibit "A"; and the Sutphen Corporation, has provided a quote for this new Sutphen Heavy Duty Custom Pumper Truck and related miscellaneous equipment, which is attached hereto and incorporated herein as Exhibit "B" for

NOW, THEREFORE, BE IT ORDAINED, by the Council of the City of \$1,206,492.75. Brook Park, State of Ohio, that:

The Mayor is hereby authorized and directed to enter into an agreement with Sutphen Corporation for the purchase Sutphen Heavy Duty Custom Pumper and related one (1) miscellaneous equipment.

The money needed for the aforesaid transaction shall not exceed \$1,206,492.75 and shall be paid from Capital Fund SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason to purchase a new Sutphen Heavy Duty Custom Pumper Truck and related miscellaneous equipment; therefore this Ordinance shall take effect and be in force immediately from and after its passage and approval by the Mayor.

PASSED:	PRESIDENT OF COUNCIL
ATTEST: Clerk of Council	APPROVED: MAYOR
	DATE

THEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTNESS



Solicitation Number: RFP #113021



113021-SUT

CONTRACT

This Contract is between Sourcewell, 202 12th Street Northeast, P.O. Box 219, Staples, MN 56479 (Sourcewell) and The Sutphen Corporation, 6450 Eiterman Road, Dublin, OH 43016 (Supplier).

Sourcewell is a State of Minnesota local government unit and service cooperative created under the laws of the State of Minnesota (Minnesota Statutes Section 123A.21) that offers cooperative procurement solutions to government entities. Participation is open to eligible federal, state/province, and municipal governmental entities, higher education, K-12 education, nonprofit, tribal government, and other public entities located in the United States and Canada. Sourcewell issued a public solicitation for Firefighting Apparatus and Fire Service Vehicles from which Supplier was awarded a contract.

Supplier desires to contract with Sourcewell to provide equipment, products, or services to Sourcewell and the entities that access Sourcewell's cooperative purchasing contracts (Participating Entities).

1. TERM OF CONTRACT

- A. EFFECTIVE DATE. This Contract is effective upon the date of the final signature below.
- B. EXPIRATION DATE AND EXTENSION. This Contract expires February 10, 2026, unless it is cancelled sooner pursuant to Article 22. This Contract may be extended one additional year upon the request of Sourcewell and written agreement by Supplier.
- C. SURVIVAL OF TERMS. Notwithstanding any expiration or termination of this Contract, all payment obligations incurred prior to expiration or termination will survive, as will the following: Articles 11 through 14 survive the expiration or cancellation of this Contract. All other rights will cease upon expiration or termination of this Contract.

2. EQUIPMENT, PRODUCTS, OR SERVICES

A. EQUIPMENT, PRODUCTS, OR SERVICES. Supplier will provide the Equipment, Products, or Services as stated in its Proposal submitted under the Solicitation Number listed above.

Supplier's Equipment, Products, or Services Proposal (Proposal) is attached and incorporated into this Contract.

All Equipment and Products provided under this Contract must be new and the current model. Supplier may offer close-out, refurbished, or remounted Equipment or Products if they are clearly indicated in Supplier's product and pricing list. Unless agreed to by the Participating Entities in advance, Equipment or Products must be delivered as operational to the

This Contract offers an indefinite quantity of sales, and while substantial volume is anticipated, Participating Entity's site. sales and sales volume are not guaranteed.

- B. WARRANTY. Supplier warrants that all Equipment, Products, and Services furnished are free from liens and encumbrances, and are free from defects in design, materials, and workmanship. In addition, Supplier warrants the Equipment, Products, and Services are suitable for and will perform in accordance with the ordinary use for which they are intended. Supplier's dealers and distributors must agree to assist the Participating Entity in reaching a resolution in any dispute over warranty terms with the manufacturer. Any manufacturer's warranty that extends beyond the expiration of the Supplier's warranty will be passed on to the Participating Entity.
 - DEALERS, DISTRIBUTORS, AND/OR RESELLERS. Upon Contract execution and throughout the Contract term, Supplier must provide to Sourcewell a current means to validate or authenticate Supplier's authorized dealers, distributors, or resellers relative to the Equipment, Products, and Services offered under this Contract, which will be incorporated into this Contract by reference. It is the Supplier's responsibility to ensure Sourcewell receives the most current information.

3. PRICING

All Equipment, Products, or Services under this Contract will be priced at or below the price

When providing pricing quotes to Participating Entities, all pricing quoted must reflect a Participating Entity's total cost of acquisition. This means that the quoted cost is for delivered Equipment, Products, and Services that are operational for their intended purpose, and includes all costs to the Participating Entity's requested delivery location.

Regardless of the payment method chosen by the Participating Entity, the total cost associated with any purchase option of the Equipment, Products, or Services must always be disclosed in the pricing quote to the applicable Participating Entity at the time of purchase.

A. SHIPPING AND SHIPPING COSTS. All delivered Equipment and Products must be properly packaged. Damaged Equipment and Products may be rejected. If the damage is not readily

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apparent at the time of delivery, Supplier must permit the Equipment and Products to be returned within a reasonable time at no cost to Sourcewell or its Participating Entities. Participating Entities reserve the right to inspect the Equipment and Products at a reasonable time after delivery where circumstances or conditions prevent effective inspection of the Equipment and Products at the time of delivery. In the event of the delivery of nonconforming Equipment and Products, the Participating Entity will notify the Supplier as soon as possible and the Supplier will replace nonconforming Equipment and Products with conforming Equipment and Products that are acceptable to the Participating Entity.

Supplier must arrange for and pay for the return shipment on Equipment and Products that arrive in a defective or inoperable condition.

Sourcewell may declare the Supplier in breach of this Contract if the Supplier intentionally delivers substandard or inferior Equipment or Products.

- B. SALES TAX. Each Participating Entity is responsible for supplying the Supplier with valid taxexemption certification(s). When ordering, a Participating Entity must indicate if it is a taxexempt entity.
- C. HOT LIST PRICING. At any time during this Contract, Supplier may offer a specific selection of Equipment, Products, or Services at discounts greater than those listed in the Contract. When Supplier determines it will offer Hot List Pricing, it must be submitted electronically to Sourcewell in a line-item format. Equipment, Products, or Services may be added or removed from the Hot List at any time through a Sourcewell Price and Product Change Form as defined

Hot List program and pricing may also be used to discount and liquidate close-out and discontinued Equipment and Products as long as those close-out and discontinued items are in Article 4 below. clearly identified as such. Current ordering process and administrative fees apply. Hot List Pricing must be published and made available to all Participating Entities.

4. PRODUCT AND PRICING CHANGE REQUESTS

Supplier may request Equipment, Product, or Service changes, additions, or deletions at any time. All requests must be made in writing by submitting a signed Sourcewell Price and Product Change Request Form to the assigned Sourcewell Supplier Development Administrator. This approved form is available from the assigned Sourcewell Supplier Development Administrator. At a minimum, the request must:

- Identify the applicable Sourcewell contract number;
- Clearly specify the requested change;
- Provide sufficient detail to justify the requested change;

- Individually list all Equipment, Products, or Services affected by the requested change, along with the requested change (e.g., addition, deletion, price change); and
- Include a complete restatement of pricing documentation in Microsoft Excel with the effective date of the modified pricing, or product addition or deletion. The new pricing restatement must include all Equipment, Products, and Services offered, even for those items where pricing remains unchanged.

A fully executed Sourcewell Price and Product Change Request Form will become an amendment to this Contract and will be incorporated by reference.

5. PARTICIPATION, CONTRACT ACCESS, AND PARTICIPATING ENTITY REQUIREMENTS

A. PARTICIPATION. Sourcewell's cooperative contracts are available and open to public and nonprofit entities across the United States and Canada; such as federal, state/province, municipal, K-12 and higher education, tribal government, and other public entities.

The benefits of this Contract should be available to all Participating Entities that can legally access the Equipment, Products, or Services under this Contract. A Participating Entity's authority to access this Contract is determined through its cooperative purchasing, interlocal, or joint powers laws. Any entity accessing benefits of this Contract will be considered a Service Member of Sourcewell during such time of access. Supplier understands that a Participating Entity's use of this Contract is at the Participating Entity's sole convenience and Participating Entities reserve the right to obtain like Equipment, Products, or Services from any other source.

Supplier is responsible for familiarizing its sales and service forces with Sourcewell contract use eligibility requirements and documentation and will encourage potential participating entities to join Sourcewell. Sourcewell reserves the right to add and remove Participating Entities to its roster during the term of this Contract.

B. PUBLIC FACILITIES. Supplier's employees may be required to perform work at governmentowned facilities, including schools. Supplier's employees and agents must conduct themselves in a professional manner while on the premises, and in accordance with Participating Entity policies and procedures, and all applicable laws.

6. PARTICIPATING ENTITY USE AND PURCHASING

A. . ORDERS AND PAYMENT. To access the contracted Equipment, Products, or Services under this Contract, a Participating Entity must clearly indicate to Supplier that it intends to access this Contract; however, order flow and procedure will be developed jointly between Sourcewell and Supplier. Typically, a Participating Entity will issue an order directly to Supplier or its authorized subsidiary, distributor, dealer, or reseller. If a Participating Entity issues a purchase order, it may use its own forms, but the purchase order should clearly note the applicable Sourcewell

contract number. All Participating Entity orders under this Contract must be issued prior to expiration or cancellation of this Contract; however, Supplier performance, Participating Entity payment obligations, and any applicable warranty periods or other Supplier or Participating Entity obligations may extend beyond the term of this Contract.

Supplier's acceptable forms of payment are included in its attached Proposal. Participating Entities will be solely responsible for payment and Sourcewell will have no liability for any unpaid invoice of any Participating Entity.

- B. ADDITIONAL TERMS AND CONDITIONS/PARTICIPATING ADDENDUM. Additional terms and conditions to a purchase order, or other required transaction documentation, may be negotiated between a Participating Entity and Supplier, such as job or industry-specific requirements, legal requirements (e.g., affirmative action or immigration status requirements), or specific local policy requirements. Some Participating Entities may require the use of a Participating Addendum; the terms of which will be negotiated directly between the Participating Entity and the Supplier. Any negotiated additional terms and conditions must never be less favorable to the Participating Entity than what is contained in this Contract.
 - C. SPECIALIZED SERVICE REQUIREMENTS. In the event that the Participating Entity requires service or specialized performance requirements not addressed in this Contract (such as ecommerce specifications, specialized delivery requirements, or other specifications and requirements), the Participating Entity and the Supplier may enter into a separate, standalone agreement, apart from this Contract. Sourcewell, including its agents and employees, will not be made a party to a claim for breach of such agreement.
 - D. TERMINATION OF ORDERS. Participating Entities may terminate an order, in whole or in part, immediately upon notice to Supplier in the event of any of the following events:
 - 1. The Participating Entity fails to receive funding or appropriation from its governing body at levels sufficient to pay for the equipment, products, or services to be purchased; or
 - 2. Federal, state, or provincial laws or regulations prohibit the purchase or change the Participating Entity's requirements.
 - E. GOVERNING LAW AND VENUE. The governing law and venue for any action related to a Participating Entity's order will be determined by the Participating Entity making the purchase.

7. CUSTOMER SERVICE

A. PRIMARY ACCOUNT REPRESENTATIVE. Supplier will assign an Account Representative to Sourcewell for this Contract and must provide prompt notice to Sourcewell if that person is changed. The Account Representative will be responsible for:

- Timely response to all Sourcewell and Participating Entity inquiries; and Maintenance and management of this Contract;
- Business reviews to Sourcewell and Participating Entities, if applicable.
- B. BUSINESS REVIEWS. Supplier must perform a minimum of one business review with Sourcewell per contract year. The business review will cover sales to Participating Entities, pricing and contract terms, administrative fees, sales data reports, supply issues, customer issues, and any other necessary information.

8. REPORT ON CONTRACT SALES ACTIVITY AND ADMINISTRATIVE FEE PAYMENT

A. CONTRACT SALES ACTIVITY REPORT. Each calendar quarter, Supplier must provide a contract sales activity report (Report) to the Sourcewell Supplier Development Administrator assigned to this Contract. Reports are due no later than 45 days after the end of each calendar quarter. A Report must be provided regardless of the number or amount of sales during that quarter (i.e., if there are no sales, Supplier must submit a report indicating no sales were made).

The Report must contain the following fields:

- Participating Entity Name (e.g., City of Staples Highway Department);
- Participating Entity Physical Street Address;
- Participating Entity City;
- Participating Entity State/Province;
- Participating Entity Zip/Postal Code;
- Participating Entity Contact Name;
- Participating Entity Contact Email Address;
- Participating Entity Contact Telephone Number;
- Sourcewell Assigned Entity/Participating Entity Number;
- Item Purchased Description;

- Date Purchase was invoiced/sale was recognized as revenue by Supplier. Sourcewell Administrative Fee Applied; and Item Purchased Price;
- B. ADMINISTRATIVE FEE. In consideration for the support and services provided by Sourcewell, the Supplier will pay an administrative fee to Sourcewell on all Equipment, Products, and Services provided to Participating Entities. The Administrative Fee must be included in, and not added to, the pricing. Supplier may not charge Participating Entitles more than the contracted

The Supplier will submit payment to Sourcewell for the percentage of administrative fee stated price to offset the Administrative Fee. in the Proposal multiplied by the total sales of all Equipment, Products, and Services purchased by Participating Entities under this Contract during each calendar quarter. Payments should note the Supplier's name and Sourcewell-assigned contract number in the memo; and must be mailed to the address above "Attn: Accounts Receivable" or remitted electronically to mailed to the address above "Attn: Accounts Receivable" or remitted electronically to Sourcewell's Finance department instructions. Payments Sourcewell's banking institution per Sourcewell's Finance department instructions. Payments must be received no later than 45 calendar days after the end of each calendar quarter.

Supplier agrees to cooperate with Sourcewell in auditing transactions under this Contract to ensure that the administrative fee is paid on all items purchased under this Contract.

In the event the Supplier is delinquent in any undisputed administrative fees, Sourcewell reserves the right to cancel this Contract and reject any proposal submitted by the Supplier in any subsequent solicitation. In the event this Contract is cancelled by either party prior to the contract's expiration date, the administrative fee payment will be due no more than 30 days from the cancellation date.

9. AUTHORIZED REPRESENTATIVE

Sourcewell's Authorized Representative is its Chief Procurement Officer.

Supplier's Authorized Representative is the person named in the Supplier's Proposal. If Supplier's Authorized Representative changes at any time during this Contract, Supplier must promptly notify Sourcewell in writing.

10. AUDIT, ASSIGNMENT, AMENDMENTS, WAIVER, AND CONTRACT COMPLETE

- A. AUDIT. Pursuant to Minnesota Statutes Section 16C.05, subdivision 5, the books, records, documents, and accounting procedures and practices relevant to this Agreement are subject to examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination by Sourcewell or the Minnesota State Auditor for a minimum of six years from the examination of the six years from the years from the examination of the six years from the years f
- B. ASSIGNMENT. Neither party may assign or otherwise transfer its rights or obligations under this Contract without the prior written consent of the other party and a fully executed assignment agreement. Such consent will not be unreasonably withheld. Any prohibited assignment will be invalid.
- C. AMENDMENTS. Any amendment to this Contract must be in writing and will not be effective until it has been duly executed by the parties.
- D. WAIVER. Failure by either party to take action or assert any right under this Contract will not be deemed a waiver of such right in the event of the continuation or repetition of the circumstances giving rise to such right. Any such waiver must be in writing and signed by the parties.

- E. CONTRACT COMPLETE. This Contract represents the complete agreement between the parties. No other understanding regarding this Contract, whether written or oral, may be used to bind either party. For any conflict between the attached Proposal and the terms set out in Articles 1-22 of this Contract, the terms of Articles 1-22 will govern.
 - F. RELATIONSHIP OF THE PARTIES. The relationship of the parties is one of independent contractors, each free to exercise judgment and discretion with regard to the conduct of their respective businesses. This Contract does not create a partnership, joint venture, or any other relationship such as master-servant, or principal-agent.

11. INDEMNITY AND HOLD HARMLESS

Supplier must indemnify, defend, save, and hold Sourcewell and its Participating Entities, including their agents and employees, harmless from any claims or causes of action, including attorneys' fees incurred by Sourcewell or its Participating Entities, arising out of any act or omission in the performance of this Contract by the Supplier or its agents or employees; this indemnification includes injury or death to person(s) or property alleged to have been caused by some defect in the Equipment, Products, or Services under this Contract to the extent the Equipment, Product, or Service has been used according to its specifications. Sourcewell's responsibility will be governed by the State of Minnesota's Tort Liability Act (Minnesota Statutes Chapter 466) and other applicable law.

12. GOVERNMENT DATA PRACTICES

Supplier and Sourcewell must comply with the Minnesota Government Data Practices Act, Minnesota Statutes Chapter 13, as it applies to all data provided by or provided to Sourcewell under this Contract and as it applies to all data created, collected, received, stored, used, maintained, or disseminated by the Supplier under this Contract.

13. INTELLECTUAL PROPERTY, PUBLICITY, MARKETING, AND ENDORSEMENT

A. INTELLECTUAL PROPERTY

- a. Sourcewell grants to Supplier a royalty-free, worldwide, non-exclusive right and 1. Grant of License. During the term of this Contract: license to use thetrademark(s) provided to Supplier by Sourcewell in advertising and promotional materials for the purpose of marketing Sourcewell's relationship with
 - b. Supplier grants to Sourcewell a royalty-free, worldwide, non-exclusive right and license to use Supplier's trademarks in advertising and promotional materials for the
 - 2. Limited Right of Sublicense. The right and license granted herein includes a limited right purpose of marketing Supplier's relationship with Sourcewell.
 - of each party to grant sublicenses to their respective subsidiaries, distributors, dealers,

resellers, marketing representatives, and agents (collectively "Permitted Sublicensees") in advertising and promotional materials for the purpose of marketing the Parties' relationship to Participating Entities. Any sublicense granted will be subject to the terms and conditions of this Article. Each party will be responsible for any breach of this Article by any of their respective sublicensees.

3. Use; Quality Control.

- Neither party may alter the other party's trademarks from the form provided and must comply with removal requests as to specific uses of its trademarks or logos.
- Each party agrees to use, and to cause its Permitted Sublicensees to use, the other party's trademarks only in good faith and in a dignified manner consistent with such party's use of the trademarks. Upon written notice to the breaching party, the breaching party has 30 days of the date of the written notice to cure the breach or
- 4. As applicable, Supplier agrees to indemnify and hold harmless Sourcewell and its Participating Entities against any and all suits, claims, judgments, and costs instituted or recovered against Sourcewell or Participating Entities by any person on account of the use of any Equipment or Products by Sourcewell or its Participating Entities supplied by Supplier
 - 5. Termination. Upon the termination of this Contract for any reason, each party, including Permitted Sublicensees, will have 30 days to remove all Trademarks from signage, websites, in violation of applicable patent or copyright laws. and the like bearing the other party's name or logo (excepting Sourcewell's pre-printed catalog of suppliers which may be used until the next printing). Supplier must return all marketing and promotional materials, including signage, provided by Sourcewell, or dispose
- B. PUBLICITY. Any publicity regarding the subject matter of this Contract must not be released without prior written approval from the Authorized Representatives. Publicity includes notices, informational pamphlets, press releases, research, reports, signs, and similar public notices prepared by or for the Supplier individually or jointly with others, or any subcontractors, with respect to the program, publications, or services provided resulting from this Contract.
 - C. MARKETING. Any direct advertising, marketing, or offers with Participating Entities must be approved by Sourcewell. Send all approval requests to the Sourcewell Supplier Development
 - D. ENDORSEMENT. The Supplier must not claim that Sourcewell endorses its Equipment, Administrator assigned to this Contract. Products, or Services.

14. GOVERNING LAW, JURISDICTION, AND VENUE

The substantive and procedural laws of the State of Minnesota will govern this Contract. Venue for all legal proceedings arising out of this Contract, or its breach, must be in the appropriate state court in Todd County, Minnesota or federal court in Fergus Falls, Minnesota.

15. FORCE MAJEURE

Neither party to this Contract will be held responsible for delay or default caused by acts of God or other conditions that are beyond that party's reasonable control. A party defaulting under this provision must provide the other party prompt written notice of the default.

If any provision of this Contract is found by a court of competent jurisdiction to be illegal, unenforceable, or void then both parties will be relieved from all obligations arising from that provision. If the remainder of this Contract is capable of being performed, it will not be affected by such determination or finding and must be fully performed.

17. PERFORMANCE, DEFAULT, AND REMEDIES

- A. PERFORMANCE. During the term of this Contract, the parties will monitor performance and address unresolved contract issues as follows:
 - 1. Notification. The parties must promptly notify each other of any known dispute and work in good faith to resolve such dispute within a reasonable period of time. If necessary, Sourcewell and the Supplier will jointly develop a short briefing document that describes the issue(s), relevant impact, and positions of both parties.
 - 2. Escalation. If parties are unable to resolve the issue in a timely manner, as specified above, either Sourcewell or Supplier may escalate the resolution of the issue to a higher level of management. The Supplier will have 30 calendar days to cure an outstanding issue.
 - 3. Performance while Dispute is Pending. Notwithstanding the existence of a dispute, the Supplier must continue without delay to carry out all of its responsibilities under the Contract that are not affected by the dispute. If the Supplier fails to continue without delay to perform its responsibilities under the Contract, in the accomplishment of all undisputed work, the Supplier will bear any additional costs incurred by Sourcewell and/or its Participating Entities as a result of such failure to proceed.
 - B. DEFAULT AND REMEDIES. Either of the following constitutes cause to declare this Contract, or any Participating Entity order under this Contract, in default:
 - Nonperformance of contractual requirements, or 1.
 - A material breach of any term or condition of this Contract. 2.

The party claiming default must provide written notice of the default, with 30 calendar days to cure the default. Time allowed for cure will not diminish or eliminate any liability for liquidated or other damages. If the default remains after the opportunity for cure, the non-defaulting party may:

- Exercise any remedy provided by law or equity, or
- Terminate the Contract or any portion thereof, including any orders issued against the Contract.

18. INSURANCE

A. REQUIREMENTS. At its own expense, Supplier must maintain insurance policy(ies) in effect at all times during the performance of this Contract with insurance company(ies) licensed or authorized to do business in the State of Minnesota having an "AM BEST" rating of A- or better, with coverage and limits of insurance not less than the following:

Workers' Compensation and Employer's Liability.

Workers' Compensation: As required by any applicable law or regulation.

Employer's Liability Insurance: must be provided in amounts not less than listed below:

Minimum limits:

\$500,000 each accident for bodily injury by accident \$500,000 policy limit for bodily injury by disease \$500,000 each employee for bodily injury by disease

Commercial General Liability Insurance. Supplier will maintain insurance covering its operations, with coverage on an occurrence basis, and must be subject to terms no less broad than the Insurance Services Office ("ISO") Commercial General Liability Form CG0001 (2001 or newer edition), or equivalent. At a minimum, coverage must include liability arising from premises, operations, bodily injury and property damage, independent contractors, products-completed operations including construction defect, contractual liability, blanket contractual liability, and personal injury and advertising injury. All required limits, terms and conditions of coverage must be maintained during the term of this Contract.

\$1,000,000 each occurrence Bodily Injury and Property Damage Minimum Limits: \$1,000,000 Personal and Advertising Injury

\$2,000,000 aggregate for Products-Completed operations

\$2,000,000 general aggregate

3. Commercial Automobile Liability Insurance. During the term of this Contract, Supplier will maintain insurance covering all owned, hired, and non-owned automobiles in limits of liability not less than indicated below. The coverage must be subject to terms no less broad than ISO Business Auto Coverage Form CA 0001 (2010 edition or newer), or equivalent.

\$1,000,000 each accident, combined single limit Minimum Limits:

4. Umbrella Insurance. During the term of this Contract, Supplier will maintain umbrella coverage over Employer's Liability, Commercial General Liability, and Commercial Automobile.

Minimum Limits:

Network Security and Privacy Liability Insurance. During the term of this Contract, Supplier will maintain coverage for network security and privacy liability. The coverage may be endorsed on another form of liability coverage or written on a standalone policy. The insurance must cover claims which may arise from failure of Supplier's security resulting in, but not limited to, computer attacks, unauthorized access, disclosure of not public data – including but not limited to, confidential or private information, transmission of a computer virus, or denial of service.

Minimum limits:

\$2,000,000 per occurrence

Failure of Supplier to maintain the required insurance will constitute a material breach entitling Sourcewell to immediately terminate this Contract for default.

B. CERTIFICATES OF INSURANCE. Prior to commencing under this Contract, Supplier must furnish to Sourcewell a certificate of insurance, as evidence of the insurance required under this Contract. Prior to expiration of the policy(ies), renewal certificates must be mailed to Sourcewell, 202 12th Street Northeast, P.O. Box 219, Staples, MN 56479 or sent to the Sourcewell Supplier Development Administrator assigned to this Contract. The certificates must be signed by a person authorized by the insurer(s) to bind coverage on their behalf.

Failure to request certificates of insurance by Sourcewell, or failure of Supplier to provide certificates of insurance, in no way limits or relieves Supplier of its duties and responsibilities in this Contract.

C. ADDITIONAL INSURED ENDORSEMENT AND PRIMARY AND NON-CONTRIBUTORY INSURANCE CLAUSE. Supplier agrees to list Sourcewell and its Participating Entities, including their officers, agents, and employees, as an additional insured under the Supplier's commercial general liability insurance policy with respect to liability arising out of activities, "operations," or "Work" performed by or on behalf of Supplier, and products and completed operations of Supplier. The policy provision(s) or endorsement(s) must further provide that coverage is 12

primary and not excess over or contributory with any other valid, applicable, and collectible insurance or self-insurance in force for the additional insureds.

- D. WAIVER OF SUBROGATION. Supplier waives and must require (by endorsement or otherwise) all its insurers to waive subrogation rights against Sourcewell and other additional insureds for losses paid under the insurance policies required by this Contract or other insurance applicable to the Supplier or its subcontractors. The waiver must apply to all deductibles and/or self-insured retentions applicable to the required or any other insurance maintained by the Supplier or its subcontractors. Where permitted by law, Supplier must require similar written express waivers of subrogation and insurance clauses from each of its
 - E. UMBRELLA/EXCESS LIABILITY/SELF-INSURED RETENTION. The limits required by this subcontractors. Contract can be met by either providing a primary policy or in combination with umbrella/excess liability policy(ies), or self-insured retention.

19. COMPLIANCE

- A. LAWS AND REGULATIONS. All Equipment, Products, or Services provided under this Contract must comply fully with applicable federal laws and regulations, and with the laws in the states and provinces in which the Equipment, Products, or Services are sold.
 - B. LICENSES. Supplier must maintain a valid and current status on all required federal, state/provincial, and local licenses, bonds, and permits required for the operation of the business that the Supplier conducts with Sourcewell and Participating Entities.

20. BANKRUPTCY, DEBARMENT, OR SUSPENSION CERTIFICATION

Supplier certifies and warrants that it is not in bankruptcy or that it has previously disclosed in writing certain information to Sourcewell related to bankruptcy actions. If at any time during this Contract Supplier declares bankruptcy, Supplier must immediately notify Sourcewell in writing.

Supplier certifies and warrants that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from programs operated by the State of Minnesota; the United States federal government or the Canadian government, as applicable; or any Participating Entity. Supplier certifies and warrants that neither it nor its principals have been convicted of a criminal offense related to the subject matter of this Contract. Supplier further warrants that it will provide immediate written notice to Sourcewell if this certification changes at any time.

21. PROVISIONS FOR NON-UNITED STATES FEDERAL ENTITY PROCUREMENTS UNDER UNITED STATES FEDERAL AWARDS OR OTHER AWARDS

Participating Entities that use United States federal grant or FEMA funds to purchase goods or services from this Contract may be subject to additional requirements including the procurement standards of the Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards, 2 C.F.R. § 200. Participating Entities may have additional Requirements based on specific funding source terms or conditions. Within this Article, all requirements based on specific funding source terms or conditions. Within this Article, all requirements based on specific funding source terms or conditions. Within this Article, all requirements based on specific funding source terms or conditions. Within this Article, all requirements based on specific funding source terms or conditions. Within this Article, all requirements based on specific funding source terms or conditions. Within this Article, all requirements based on specific funding source terms or conditions. Within this Article, all requirements based on specific funding source terms or conditions. Within this Article, all requirements based on specific funding source terms or conditions. Within this Article, all requirements based on specific funding source terms or conditions. Within this Article, all requirements based on specific funding source terms or conditions. Within this Article, all requirements because the specific funding source terms or conditions. Within this Article, all requirements because the specific funding source terms or conditions.

- A. EQUAL EMPLOYMENT OPPORTUNITY. Except as otherwise provided under 41 C.F.R. § 60, all contracts that meet the definition of "federally assisted construction contract" in 41 C.F.R. § 60-1.3 must include the equal opportunity clause provided under 41 C.F.R. §60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 C.F.R. §, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing Executive Order 11246 Relating to Equal Employment Compliance Programs, Equal Employment Opportunity, Department of Labor." The equal opportunity clause is incorporated Employment Opportunity, Department of Labor." The equal opportunity clause is incorporated by reference.
 - B. DAVIS-BACON ACT, AS AMENDED (40 U.S.C. § 3141-3148). When required by federal program legislation, all prime construction contracts in excess of \$2,000 awarded by nonfederal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. § 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 C.F.R. § 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-federal entity must report all suspected or reported violations to the federal awarding agency. The contracts must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. § 3145), as supplemented by Department of Labor regulations (29 C.F.R. § 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-federal entity must report all suspected or reported violations to the federal awarding agency. Supplier must be in compliance with all applicable Davis-Bacon Act provisions. 14

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- C. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT (40 U.S.C. § 3701-3708). Where applicable, all contracts awarded by the non-federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. §§ 3702 and 3704, as supplemented by Department of Labor regulations (29 C.F.R. § 5). Under 40 U.S.C. § 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. § 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence. This provision is hereby incorporated by reference into this Contract. Supplier certifies that during the term of an award for all contracts by Sourcewell resulting from this procurement process, Supplier must comply with applicable requirements as referenced above.
 - D. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT. If the federal award meets the definition of "funding agreement" under 37 C.F.R. § 401.2(a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, regarding the substitution of parties, assignment or performance of experimental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 C.F.R. § 401, "Rights to Inventions Made by Nonprofit must comply with the requirements of 37 C.F.R. § 401, "Rights to Inventions Made by Nonprofit organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency. Supplier Agreements, and any implementing regulations issued by the awarding from this certifies that during the term of an award for all contracts by Sourcewell resulting from this procurement process, Supplier must comply with applicable requirements as referenced above.
 - E. CLEAN AIR ACT (42 U.S.C. § 7401-7671Q.) AND THE FEDERAL WATER POLLUTION CONTROL. ACT (33 U.S.C. § 1251-1387). Contracts and subgrants of amounts in excess of \$150,000 require the non-federal award to agree to comply with all applicable standards, orders or regulations the non-federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. § 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. § 1251-1387). Violations must be reported to the Federal Control Act as amended (33 U.S.C. § 1251-1387). Violations must be reported to the Federal Supplier certifies that during the term of this Contract will comply with applicable requirements supplier certifies that during the term of this Contract will comply with applicable requirements as referenced above.
 - F. DEBARMENT AND SUSPENSION (EXECUTIVE ORDERS 12549 AND 12689). A contract award (see 2 C.F.R. § 180.220) must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 C.F.R. § 1980 that implement Executive Orders 12549 (3 C.F.R. § 1986 Comp., p. 189) and 12689 (3 § 180 that implement Executive Orders 12549 (3 C.F.R. § 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names C.F.R. § 1989 Comp., p. 235), "Debarment and Suspension."

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of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. Supplier ineligible under statutory or regulatory authority other than Executive Order 12549. Suspended, proposed for ineligible under statutory or regulatory authority debarred, suspended, proposed for certifies that neither it nor its principals are presently debarred, suspended, proposed for certifies that neither it nor its principals are presently debarred, suspended, proposed for debarred, declared ineligible, or voluntarily excluded from participation by any federal debarrent or agency.

- G. BYRD ANTI-LOBBYING AMENDMENT, AS AMENDED (31 U.S.C. § 1352). Suppliers must file any required certifications. Suppliers must not have used federal appropriated funds to pay any required certifications. Suppliers must not have used federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of a member of congress, officer or employee of Congress, or an employee of a member agency, a member of Congress, officer or employee of Congress, or an employee of a member of congress in connection with obtaining any federal contract, grant, or any other award of Congress in connection with obtaining any federal award. Such disclosures are forwarded takes place in connection with obtaining any federal award. Such disclosures are forwarded takes place in connection with obtaining any federal award. Such disclosures and from tier to tier up to the non-federal award. Suppliers must file all certifications and disclosures required by, and otherwise comply with, the Byrd Anti-Lobbying Amendment (31 U.S.C. § 1352).
 - H. RECORD RETENTION REQUIREMENTS. To the extent applicable, Supplier must comply with the record retention requirements detailed in 2 C.F.R. § 200.333. The Supplier further certifies the record retention requirements detailed in 2 C.F.R. § 200.333 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.333 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.336 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.336 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain all records as required by 2 C.F.R. § 200.338 for a period of 3 years after that it will retain a period of 3 years after that it will retain a period of 3 years after that it will retain a period of 3 years afte
 - I. ENERGY POLICY AND CONSERVATION ACT COMPLIANCE. To the extent applicable, Supplier must comply with the mandatory standards and policies relating to energy efficiency which are must comply with the mandatory standards and policies relating to energy efficiency which are must comply in the state energy conservation plan issued in compliance with the extent applicable, Supplier must comply and Conservation Act.
 - J. BUY AMERICAN PROVISIONS COMPLIANCE. To the extent applicable, Supplier must comply with all applicable provisions of the Buy American Act. Purchases made in accordance with the Buy American Act must follow the applicable procurement rules calling for free and open Buy American Act must follow the applicable procurement rules calling for free and open competition.
 - K. ACCESS TO RECORDS (2 C.F.R. § 200.336). Supplier agrees that duly authorized representatives of a federal agency must have access to any books, documents, papers and records of Supplier that are directly pertinent to Supplier's discharge of its obligations under records of Supplier that are directly pertinent to Supplier's discharge of its obligations. The records of Supplier that are directly pertinent to Supplier's personnel for the purpose of this Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The this Contract for the purpose of making audits, examinations, excerpts, and transcriptions of this Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The this Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The this Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The this Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The this Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The this Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The this Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The this Contract for the purpose of making audits, examinations, excerpts, and transcriptions.
 - L. PROCUREMENT OF RECOVERED MATERIALS (2 C.F.R. § 200.322). A non-federal entity that is a state agency or agency of a political subdivision of a state and its contractors must comply a state agency or agency of a political subdivision of a state agency or agency of a political subdivision of a state agency or agency of a political subdivision of a state and its contractors must comply a state agency or agency of a political subdivision of a state and its contractors must comply a state agency or agency of a political subdivision of a state and its contractors must comply a state agency or agency of a political subdivision of a state and its contractors must comply a state agency or agency of a political subdivision of a state and its contractors must comply a state agency or agency of a political subdivision of a state agency or agency of a political subdivision of a state agency or agency of a political subdivision of a state agency or agency of a political subdivision of a state agency or agency of a political subdivision of a state agency or agency of a political subdivision of a state agency or agency of a political subdivision of a state agency or agency of a political subdivision of a state agency or agency of a political subdivision of a state agency or agency or agency of a state agency of a state agency or agen

and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 C.F.R. § 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a highest percentage of competition, where the purchase price of the item exceeds \$10,000 or the satisfactory level of competition, where the purchase price of the item exceeds \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring value of the acquired during the preceding fiscal year exceeded \$10,000; procuring value of the acquired during the preceding fiscal year exceeded \$10,000; procuring value of the acquired during the preceding fiscal year exceeded \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring the procuring the preceding fiscal year exceeded \$

- M. FEDERAL SEAL(S), LOGOS, AND FLAGS. The Supplier not use the seal(s), logos, crests, or reproductions of flags or likenesses of Federal agency officials without specific pre-approval.
- N. NO OBLIGATION BY FEDERAL GOVERNMENT. The U.S. federal government is not a party to this Contract or any purchase by an Participating Entity and is not subject to any obligations or liabilities to the Participating Entity, Supplier, or any other party pertaining to any matter resulting from the Contract or any purchase by an authorized user.
- O. PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS OR RELATED ACTS. The Contractor acknowledges that 31 U.S.C. 38 (Administrative Remedies for False Claims and Statements) applies to the Supplier's actions pertaining to this Contract or any purchase by a Participating Entity.
- P. FEDERAL DEBT. The Supplier certifies that it is non-delinquent in its repayment of any federal debt. Examples of relevant debt include delinquent payroll and other taxes, audit disallowance, and benefit overpayments.
- Q. CONFLICTS OF INTEREST. The Supplier must notify the U.S. Office of General Services, Sourcewell, and Participating Entity as soon as possible if this Contract or any aspect related to the anticipated work under this Contract raises an actual or potential conflict of interest (as described in 2 C.F.R. Part 200). The Supplier must explain the actual or potential conflict in writing in sufficient detail so that the U.S. Office of General Services, Sourcewell, and Participating Entity are able to assess the actual or potential conflict; and provide any additional information as necessary or requested.
- R. U.S. EXECUTIVE ORDER 13224. The Supplier, and its subcontractors, must comply with U.S. Executive Order 13224 and U.S. Laws that prohibit transactions with and provision of resources and support to individuals and organizations associated with terrorism.
- S. PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT. To the extent applicable, Supplier certifies that during the term of this Contract it will comply with applicable requirements of 2 C.F.R. § 200.216.

T. DOMESTIC PREFERENCES FOR PROCUREMENTS. To the extent applicable, Supplier certifies that during the term of this Contract will comply with applicable requirements of 2 C.F.R. § 200.322.

22. CANCELLATION

Sourcewell or Supplier may cancel this Contract at any time, with or without cause, upon 60 days' written notice to the other party. However, Sourcewell may cancel this Contract immediately upon discovery of a material defect in any certification made in Supplier's Proposal. Cancellation of this Contract does not relieve either party of financial, product, or

mmediately upon discovery of a managery proposal. Cancellation of this Contract does no service obligations incurred or accrued prior t	
	The Sutphen Corporation
Sourcewell Journal Schwarts Jeremy Schwartz Title: Chief Procurement Officer 2/7/2022 9:22 PM CST Date:	By: Drw Supplem 14FD9C3BBDB0447 Drew Sutphen Title: President 2/8/2022 3:13 PM CST Date:
Approved: Of all facilities	
By: TE42B9F817A64CC Chad Coauette	·
Title: Executive Director/CEO 2/8/2022 5:16 PM CST	•
Date:	



EXHIBIT

PROPOSAL

TO THE: Brook Park Fire Department Attn: Chief Patrick Johnson 17401 Holland Rd Brook Park, Oh 44142

DATE: April 20, 2023

We hereby propose and agree to furnish the following firefighting equipment upon your acceptance of this proposal:

One (1) Sutphen Heavy Duty Custom Pumper\$1,206,492.75*

Pricing is based on Sourcewell Contract Number 113021-SUT

Pricing is based on Payment at time of delivery

The unit shall be manufactured completely in accordance to the following proposal and delivered in approximately 38-44 months from the date of the contract signing or purchase order, subject to delays from all causes beyond our control.

This proposal shall be valid until June 1,2023. If the contract or purchase order is not received within this proposed duration, we reserve the right to extend, withdraw, or modify our proposal, including pricing, delivery times, and prepayment discounts as applicable.

Should any changes be required as mandated by NFPA, EPA, or other Federal, State or Local Governments, or changes due to part availability or vendor relationships, such changes shall be documented on a change order and purchaser shall be responsible for additional charges as applicable. These may include but are not limited to changes that affect the major vendors of the fire apparatus industry such as pump manufacturer, seat manufacturer, electrical power supplies (generators) and powertrain (engine & transmission).

Respectfully submitted,

BobJones

Bob Jones Herb Fire Equipment Authorized Representative Sutphen Corporation

Hërb Fire

SUTPHEN CORPORATION 6450 Eiterman Road | Dublin, OH 43016 | 1-800-848-5860



Sutphen **Component Report** Dealership: Herb Fire 3 (Bob

Jones)

HS- Brook Park Fire Dept., Ohio **Customized Pumper**

Order#: DQ14659-1

Contact: Position: Phone: Mobile:

Email: Ship To

		Ship To
Contact:	Bill To Brook Park Fire Dept. , 17401 Holland Rd Brook Park, Ohio 44142	Customer: Brook Park Fire Dept. Contact: , Address: 17401 Holland Rd Brook Park, 44142

Comments

Project Manager: Sales Person: Revision Level: Truck Type: **Body Facility:**

Line	ltem#	Qty	Item Description/Comments	
1	Sourcewell	1	Cooperative Purchasing =Sourcewell	
2	10310100	1.	CHASSIS	· · · · · · · · · · · · · · · · · · ·
	l		CHASSIS	
	10010001	1	CHASSIS, CUSTOM	
 4	51010105	1	Wheelbase = 206.5	
	51010310	1.	WHEELBASE GREATER THAN 200"	
6	25010100	1	FRAME, 10" DOUBLE RAILS, SINGLE AXLE (50K PSI)	
7	45040100	1	FRONT BUMPER CLIP	
8	45010001	1	FRONT TOW EYES, BELOW BUMPER, PAINTED	
9	46010000	1	REAR TOW EYES, PAINTED	
10	40010250	1.	STEERING - ROSS TAS-85	
1.1		1.	DRIVE LINE, SPICER, 1810 SERIES	
12		1	ENGINE, CUMMINS X 10 450HP DOC-DPF-DEF-SCR OBD	
1:			ENGINE WARRANTY, 5 YEAR, 100,000 MILES FOR CUMMINS (X SERIES)	1

				·		escription/Comments					
Line	lt.	em#	Q	ty I	tem C	escription/Comments TREATMENT WARRANTY, 5 YEAR, 100,000 MILES FOR CUMMINS (X SERIES)	ı				
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15	73	 3030006	;	1	AIR INTAKE/EMBER SEPARATOR FUEL FILTER/WATER SEPARATOR, PRIMARY, FLEETGUARD FUEL PRO FH230						
				1	FUEL	FILTER/WATER SEPARATOR, PRIVIARY)	-				
1.6	16 23031170					THITER SECONDARY, FLEETGUARD, FF3025111					
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-		47030		1	AL	LISON TOUCH PAD SHIFTER	_				
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	22	47030)110 	1	l	DOLING SYSTEM	. \				
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		210	30200			RADIATOR COOLANT RECOVERY, PRESSURIZED SYST					
	26					FUEL TANK, STAINLESS STEEL, 65 GAL					
	27							FUEL FILL			
	25	3 26	03000	0	1.						
	2	9 26	0301	00	1	FUEL COOLER					
	-	30 2	40400	00	1	DIESEL EXHAUST FLUID TANK EXHAUST ADAPTER FOR PLYMOVENT GRABBER SYSTEM					
	-		45302	200	1	EXHAUST ADAPTER FOR PLYINGS AND BI P4003					
					1	ALTERNATOR, LEECE NEVILLE 420 AMP BLP4003					
	-		13010		1	LOW VOLTAGE ALARM, FLOYD BELL TXB-V86-313 C					
		33	13030	100	·	BATTERIES, INTERSTATE TYPE 31 MHD (4)					
	-	34	15010	0500	1	TERMINALS					
	+	35	1503	1700	1.	BATTERY JUMPER TERMINAL BATTERY INVERTER CHARGER, KUSSMAUL AP1500W INVERTER BATTERY INVERTER CHARGER, KUSSMAUL AP1500W INVERTER BATTERY INVERTER CHARGER, KUSSMAUL AP1500W INVERTER					
•	+	36	1503	31540	1.	BATTERY INVERTER CHARGER, KUSSMAUL AP1500W INVERTAGE 120V SHORELINE INLET, KUSSMAUL SUPER 20 AUTO EJECT W/ BUILT IN BAR GRAPH 120V SHORELINE INLET, KUSSMAUL SUPER 20 AUTO EJECT W/ BUILT IN BAR GRAPH					
	36			30450	1	120V SHORELINE INLET, ROSSIAN DISPLAY 091-55-234-XXX					
	ļ	37				CHITTET WIRED TO SHORELINE INVEST					
		38	150)401.00 		WE AND AND HENDRICKSON STEERTEK NX1 20,000 EAST					
		39	14	022120	0	1. FRONT AXLE, HELD	2				
						,					

ine	Item#	Qty_	Item Description/Comments
40	41022120	1	FRONT SUSPENSION, HENDRICKSON 20,000 LBS. (4) 56" LEAFS
41	41040510	1	STEER ASSIST
42	43010305	1	FRONT TIRES, GOODYEAR 385/65R22.5 LRI G296 22.5 x 12.25 WHEELS
43	14510540	REAR AXLE, MERITOR RS-30-185 31,000 LB.	
44	14530158	1	TOP SPEED, 58 MPH
45	42010025	1	REAR SUSPENSION, FIREMAAX 31,000 LBS. AIR RIDE
46	44010335	1	REAR TIRES, GOODYEAR 315/80R22.5 ENDURANCE TSD MUD & SNOW, 31,000 GVWR
47	42910300	1	TIRE PRESSURE MONITOR, QUICK PRESSURE
48	44215210	1	WHEELS, ALUM, ALCOA, DURABRITE (max 35K rear)
49	44270100	1	HUB COVERS, FRONT & REAR, POLISHED STS (Single Axle)
50	44270300	1	CHROME LUG NUT CAPS, FRONT & REAR (Single Axle)
51	44271100	1.	MUD FLAPS, FRONT (PAIR)
52	44271200	1	MUD FLAPS, REAR (PAIR)
53	54010010	1	DATA, SAFETY & WARNING TAGS APPLICATION, ADHESIVE
54	16010009	1	BRAKES MERITOR SCAM 6" FRONT, SCAM 7" REAR
55	18010043	1	AIR BRAKE SYST 5 TANKS WABCO 1200 DRYER (31K, 35K)
56	18030010	1	AIR BRAKE RELEASE VALVE, WABCO
57	18030140	1	AIR INLET CONNECTION
58	18033000	1	·
. 59	18220500) 1	
- 6	0 18110070) 1	
6	1 5351000	0 1	
6	2 5401000	0 1	MISCELLANEOUS ITEMS ON CHASSIS
6	3 1031011	0 3	CAB CAB
	54 1102327	70	1 CAB TSAL4G 73" 15" RR 1/2
	65 1103002	75	1 CAB CERTIFICATION - STRUCTURAL INTEGRITY 3

								MayArAdizza WANST				
								SALVA COMPANY				
					S. Re	ecrib	ion/Comments					
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66	11	030950		1 . C	AB LU		TEM, AIR CONTROL VALVE					
-	111	103102	5	1 0	CAB TII	.T 5Y5	ENT SYSTEM					
67			-	1			CK-UP TILT SYSTEM					
68						OORS	FULL LENGTH (4)	\				
6		110313					CRIP STRUT, INTERNAL					
-	70	110313	385	1.			PEROS ALUM, GRA	1				
-	71	11031	390	1	AUX		LIGHTING, TECNIQ E45 LED STRIP LIGHTS	-				
H	72	1103	1.399	1_	CAF	3 STEP 	COME POWER (4)					
-		1103		1	CA	B DO	R WINDOWS, POWER (4)					
-	73 	<u> </u>		-	CI	AB SID	E WINDOWS, FIXED, BOTH SIDES					
	74		31401	-		O WII	ADOWS, BACK WALL OF CAB	-				
l	75	110	3146 		-+,		DOWS, DIVINING (LIMO TINT 8%) - EACH (4)					
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	-				1	UPF	ER GRILLE, AMERICAN FLAG					
		80	1102			FL	ER GRILLE, AMERICA MING "S" LOGO, UPPER GRILLE, ILLUMINATED MING "S" LOGO, UPPER GRILLE, ILLUMINATED WER GRILLE, POLISHED STAINLESS, LASER CUT LETTERING W/ BACKLIGHTING WER GRILLE, POLISHED STAINLESS, LASER CUT LETTERING W/ BACKLIGHTING					
		81.	11.02	24510			POUSHED STAINLESS, L.					
	Ţ	82	110	24615	1		WER GRILLE, POLISHED JMPER, 24" FORMED STEEL CHANNEL, PAINTED JMPER, 24" EXTENSION)					
		83	200)12220	1	1						
			20	029830	1	. \[\int \]	UMPER SIDES, 17.					
		84	+-	0029910	1	1. BUMPER SIDES, PAINTED STEEL, 64, 1. BUMPER ANGLES, PAINTED STEEL, FLAT (12-30" EXTENSION) 1. BUMPER ANGLES, PAINTED STEEL, FLAT (12-30" EXTENSION)						
		85			-	1	BUMPER NOTCHED FOR FRONT SUCTION 2.44 MIDTH (24" BUMPER)					
	86 20030000 87 20040230 1						BUMPER NOTCHED FOR FROM STORAGE WELL, DEEP CENTER, 3/4 WIDTH (24" BUMPER) STORAGE WELL, DEEP CENTER, 3/4 WIDTH (24" BUMPER)					
							CTORAGE WELL COVER, TREADPLACE					
	88 20030120					1.	CUT-OUT IN STORAGE WELL COVER CONTROL OF FRONT BUMPER					
	٠	-	89	20030	510	1	CUT-OUT IN STORAGE WELL COVER PROTECTIVE BUMPER COATING, RAPTOR, TOP EDGE OF FRONT BUMPER					
		-		2.0042	140	1	PROTECTIVE BUILDING FRONT					
		-	90	2005		1	WINCH RECEIVER, FRONT	. 4				
		1	91.	2003		1						

•										
- 11 1	74.31	m#	Qty	Item	Desc	ription/comments				
Line	ļ	50395	1	WIRII	NG FO	or winch receiver (1) s, dual, hadley hoo978 rectangular, behind perforation s, dual, hadley hoo978 rectangular, behind perforation				
92			1	AIR I	IORN	S, DUAL, HADLEY H00978 RECTARGO	ı			
93		10400	1	AIR	HORN	S, DUAL, HADLEY HOUSTONS S CUTOUTS IN BUMPER, BEHIND PERFORATIONS (X SERIES)				
94)30015 	-	100	IVARE	CONTROL FOR AIR HORNS	<u> </u>			
95	12	030350		+		EN. WHELEN 295HFSA7, REMOTE PLUSH WO				
96	5 12	510109	1			TO STEERING WHEEL BOTTOM				
9	7 1	2530205	1	EL.	EC SIR	PEAKER, 100W, CAST PRODUCTS, SA4201-6B-A (PAIR)				
9	8 1	262010	2 1	SI	REN S	SPEAKER(S) INSTALLED BEHIND CAB GRILLE				
-	99 :	 1267011	.0 1	S	IREN !	SPEAKER(S) INSTACLED TO THE MOUNT	-			
-		127101		LS	IREN,	FEDERAL Q2B, GRILLE MOUNT				
-		127303		1	FOOT	SWITCH, DRIVER'S SIDE, FOR MECH SIREN				
-	101			1	FOOT	SWITCH, OFFICER'S SIDE, FOR MECH SIREN THE DRIVER'S & OFFICER'S SIDE				
-	102	12730		1		OOT SWITCH, OFFICER'S SIDE, TO SEE STATE OF SWITCH, OFFICER'S SIDE REN BRAKE SWITCH FOR MECH SIREN, DRIVER'S & OFFICER'S SIDE REN BRAKE SWITCH FOR MECH SIREN, DRIVER'S & OFFICER'S SIDE				
	103	12730	30303			LIGHTS LED, FIRETECH FT-4X6, DUAL 515 11				
	104	32520)520			ONE TURN SIGNALS, WHELEN 400 SERIES LED ()				
	105	4801	10300		<u> </u>	INTEGRATED MARKENS				
	106	3253	30754	1. 		- CUTERIOR, KNURLED STAINLESS TO				
	107	270	22125	1		GRAB HANDRAILS, Ditter				
	10	8 270	30610	0610 1.		- an HANDRAILS, OTTA				
	10		030655	1	1.	TI ACK RUBBER COMM				
	-		025000	1	- +	HANDRAILS, CAB INTERIOR, BLACK RUBBER COATED (1) REAR ENTRY HANDRAILS, CAB INTERIOR, BLACK RUBBER COATED (2) AND KNURLED STS AT				
			7025495	-	. 1	HANDRAILS, CAB INTERIOR, BLACK RUBBER COATED (1) REAR LIVING HANDRAILS, CAB INTERIOR DOOR, BLACK RUBBERIZED (2) AND KNURLED STS AT				
-	3			_	L	18/18/17/17/19/19				
	112		7030120		1	TAXEBIOR DOOR, NYLON STRAP				
			2704010			EXTERIOR COMPT, SIDE OF EXT CAB, 66" H, DS				
		114	1103207	21	1.	COMPT DOOR LOCK - NOT PROVIDED				
	T	115	110324	.032450		INTERIOR ACCESS, NOT PROVIDED				
	-	116	11.0322	200	1.	NO OPENING TO CREW SEAT COMPT				
		1.1.7	11032	100	1	NO OPENING TO SEE	5			
			l			•				

			-5-3 L	18 466	Description/Comments	
Line	lte	m#		rem	DESCRIPTION OF EXT CAB, 38" H, OS	
118	110	32060	1	EXIE	PT DOOR LOCK - NOT PROVIDED	
119	110	32450	1	COM	PT BOOK LOCK	į
	111	032100	1	NO	DPENING TO CREW SEAT COMPT	1
120			1	PIKI	POLE STORAGE, EXTERIOR CAB COMPT	1
121		.032300		100	HISTABLE SHELF, EXTERIOR CAB COMPT (LFA) (4)	1
127	2 1	1032310 			EVIERIOR CAB COMP1 (1)	
12	3 1	1032340	1	1 _	COMPARTIVE VI	
12	24	11032388	B 1	1		7
		 1103542	6 1	S	MOOTH METAL CAB ROOF 30 12	-
	25			1. 1	MOOTH METAL CAB ROOF 30" X FULL WILL MOOTH METAL CAB ROOF 30" X FULL WILL MITERIOR, MULTISPEC BLACK SPECKLE PAINT W/GRAY-BLACK DURAWEAR	
1	26	3101028			TANEL FULLSTS	
1	127	110329	29 		CAB INTERIOR FLOOR COVERING, BLACK RUBBERIZED	
	128	310102	291	1	DIAMONDPLATE CAB FLOOR	
	129	11035	375	1	LENGTH	
-	130	22510	100	1.	ENGINE ENCLOSURE, FULL LENGTH ENGINE ENCLOSURE COVERING, SCORPION BLACK URETHANE BLEND ENGINE ENCLOSURE	
}		2254		1	ENGINE ENCLOSURE COVERING, SOUTH ENCLOSURE	
Ì	131			1	TOOL MOUNTING PLATE, TOP OF ENGINE ENCLOSURE	
	137		1681		CENTER CONSOLE NOT PROVIDED	
	13	3 110	31677	1.	ENGINE HOOD LIGHT, LED (1)	•
	13	34 226	10050	1	FLAT WORK SURFACE IN LIEU OF GLOVE BOX	
	-	35 11	031510	1	FLAT WORK SURFACE	
	-		.031710	1	UPPER CREW DOOR AREA, SMOOTH PANEL	
	-				CHASSIS ELECTRICAL DESCRIPTION CHASSIS ELECTRICAL DESCRIPTION CHASSIS ELECTRICAL DESCRIPTION	
		10,	9810100 		AMETEK W/ CENTER & OVER	
		138 3	001013	0	1 INSTRUMENTATION Upper Command Console:	
	T				3 0 0 5	
					fittitii	•
					1 LOWER COMMAND CONSOLE, X10HD	6
		139	30010	508	1 LOWER COMMON.	U
			J			

140 30010610 1							
140 30010610 1 CAB PUMP SHIFER, ELECTRIC W/ROUND KNOB (FOR HALE G-SERIES / WATEROUS C20 PUMP TRANSMISSION) 1 141 30011000 1 PUMP INTERLOCK, NOT CONNECTED WITH ODOMETER 142 30031615 1 DO NOT MOVE LIGHT, WHELEN ION-T LED 144 29910100 1 PROGRAMMABILE LOAD MANAGER, CLASS-1 SUPERNODE II 145 30031100 1 RIGHI IDLE SWITCH 146 11040000 1 CAB ACCESSORY RUSE PAMEL 147 B4541540 1 POWER & GROUND STUDS, UNDER OFFICER'S SEAY 148 84541550 1 POWER & GROUND STUDS, UNDER OFFICER'S SEAY 148 84541550 1 VERICLE DATA RECORDER, AKRON/MELDON 150 30031820 4 12V DUAL POWER POINT (2) 151 30031820 4 12V DUAL POWER POINT (2) 152 33510030 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAN LED (2) 153 30020888 1 SPECIAL HAND HOLD STUDS, WHELEN 6" ROUND RED/CLEAN LED (2) 155 28010750 1 DEFROSTER, HENTER & A/C, SEVERE CLIMATE (TM-31) 156 28090033 1 DEFROSTER, HENTER & A/C, SEVERE CLIMATE (TM-31) 157 28030500 1 DEFROSTER DUCCHORD, ENTIRE WINDSHELD 157 28030500 1 DEFROSTER DUCCHORD, ENTIRE WINDSHELD 158 11031687 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 13.5"	- 15 L		T of	is tit	em C	Description/Comments	
140 30010610	në It	e <u>m</u> #					
140 30010610						CHIETER, ELECTRIC W/ROUND KNOB (FOR HALE G-SERIES / WATEROUS C20	
141 30031615 1 DO NOT MOVE LIGHT, WHELEN ION-T LED 142 30031615 1 MAPBOOK SLOT ON BREAKER PAINEL 144 29910100 1 PROGRAMMABLE LOAD MANAGER, CLASS-1 SUPERNODE II 145 30031100 1 HIGH IDLE SWITCH 146 11040000 1 CAB ACCESSORY FUSE PAINEL 147 84541540 1 POWER & GROUND STUDS, UPPER COMMAND CONSOLE 148 84541550 1 POWER & GROUND STUDS, UNDER OFFICER'S SEAT 149 30110000 1 VEHICLE DATA RECORDER, AKRON/WELDON 150 30031810 2 12V DUAL POWER POINT (2) 151 30031820 4 12V DUAL POWER POINT, USB/USB (4) 152 33510030 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 156 28090003	140	3001	0610	1.	PU	MP TRANSMISSION) TO SOURCE THE CONNECTED WITH ODOMETER	
142 3003103 1 MAPBOOK SLOT ON BREAKER PANEL 144 29910100 1 PROGRAMMABLE LOAD MANAGER, CLASS-1 SUPERNODE II 145 30031100 1 HIGH IDLE SWITCH 146 11040000 1 CAB ACCESSORY FUSE PANEL 147 84541540 1 POWER & GROUND STUDS, UPPER COMMAND CONSOLE 148 84541550 1 POWER & GROUND STUDS, UNDER OFFICER'S SEAT 149 30110000 1 VEHICLE DATA RECORDER, AKRON/WELDON 150 30031810 2 12V DUAL POWER POINT (2) 151 30031820 4 12V DUAL POWER POINT, USB/USB (4) 152 33510030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 156 28090003 1 HEAT TO FEET 157 28030500 1 <td< td=""><td>141</td><td>3001</td><td>1000</td><td>1</td><td>PU</td><td>IMP INTERLOCK, NOT CONNECT.</td><td></td></td<>	141	3001	1000	1	PU	IMP INTERLOCK, NOT CONNECT.	
143 29930200 1 PROGRAMMABLE LOAD MANAGER, CLASS-1 SUPERIOD. 144 29910100 1 HIGH IDLE SWITCH 145 30031100 1 HIGH IDLE SWITCH 146 11040000 1 CAB ACCESSORY FUSE PANEL. 147 84541540 1 POWER & GROUND STUDS, UPPER COMMAND CONSOLE 148 84541550 1 POWER & GROUND STUDS, UNDER OFFICER'S SEAT 149 30110000 1 VEHICLE DATA RECORDER, AKRON/WELDON 150 30031810 2 12V DUAL POWER POINT (2) 151 30031820 4 12V DUAL POWER POINT, USB/USB (4) 152 33510030 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 3302888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 155 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTW		3003	31615	· 1	DO	O NOT MOVE LIGHT, WHELLIG TO	
144 2930200 1 HIGH IDLE SWITCH 145 30031100 1 CAB ACCESSORY FUSE PANEL. 146 11040000 1 CAB ACCESSORY FUSE PANEL. 147 84541540 1 POWER & GROUND STUDS, UPPER COMMAND CONSOLE 148 84541550 1 POWER & GROUND STUDS, UNDER OFFICER'S SEAT 149 30310000 1 VEHICLE DATA RECORDER, AKRON/WELDON 150 30031810 2 12V DUAL POWER POINT (2) 151 30031820 4 12V DUAL POWER POINT, USB/USB (4) 152 33510030 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 156 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 158 11031687 1 TOP HEAT/AC S	143	299	30200	1	N.	MAPBOOK SLOT ON BREAKEN	ļ
145 30031100 1 CAB ACCESSORY FUSE PANEI. 146 11040000 1 POWER & GROUND STUDS, UPPER COMMAND CONSOLE 147 84541540 1 POWER & GROUND STUDS, UPPER COMMAND CONSOLE 148 84541550 1 POWER & GROUND STUDS, UNDER OFFICER'S SEAT 149 30110000 1 VEHICLE DATA RECORDER, AKRON/WELDON 150 30031810 2 12V DUAL POWER POINT, USB/USB (4) 151 30031820 4 12V DUAL POWER POINT, USB/USB (4) 152 33510030 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 156 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 158 11031687 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 11031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DUR	144	299	10100	1	l l		
146 1304000 1 POWER & GROUND STUDS, UPPER COMMAND COGGOSTA 147 84541540 1 POWER & GROUND STUDS, UNDER OFFICER'S SEAT 148 84541550 1 POWER & GROUND STUDS, UNDER OFFICER'S SEAT 149 30110000 1 VEHICLE DATA RECORDER, AKRON/WELDON 150 30031810 2 12V DUAL POWER POINT, USB/USB (4) 151 30031820 4 12V DUAL POWER POINT, USB/USB (4) 152 33510030 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 155 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 158 11031687 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 11031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW	145	30	031100	1			1
147 84941.50 1 POWER & GROUND STUDS, UNDER OFFICER S S.C.H. 148 84541.550 1 POWER & GROUND STUDS, UNDER OFFICER S S.C.H. 149 301.10000 1 VEHICLE DATA RECORDER, AKRON/WELDON 150 30031810 2 12V DUAL POWER POINT, USB/USB (4) 151 30031820 4 12V DUAL POWER POINT, USB/USB (4) 152 33510030 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 156 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 158 11031687 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 113031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW	146	11	.040000	1		CAB ACCESSORT TOOL CAB AC	1
148 8494130 1 VEHICLE DATA RECORDER, AKRON/WELDON 149 30110000 1 VEHICLE DATA RECORDER, AKRON/WELDON 150 30031810 2 12V DUAL POWER POINT, USB/USB (4) 151 30031820 4 12V DUAL POWER POINT, USB/USB (4) 152 33510030 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 156 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 158 11031687 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 12031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW	147	84	454154			POWER & GROUND STUDS, UNDER OFFICER'S SEAT	
149 3011000 2 12V DUAL POWER POINT (2) 150 30031810 2 12V DUAL POWER POINT, USB/USB (4) 151 30031820 4 12V DUAL POWER POINT, USB/USB (4) 152 33510030 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 156 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 157 28030500 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 11031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW 7.5)	14	8 8	454155			POWER & CITAL	
150 30031820 4 12V DUAL POWER POINT, USB/USB (4) 151 30031820 4 12V DUAL POWER POINT, USB/USB (4) 152 33510030 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TIM-31) 155 28030500 1 HEAT TO FEET 156 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 157 28030500 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 11031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW 7) 1500000000000000000000000000000000000	1.4					32V DUAL POWER POINT (2)	
151 3003.1020 1 INTERIOR CAB LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED/CLEAR LED (2) 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 156 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 158 11031687 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 11031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW 7.500.) 157 158 11031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW 7.500.) 159 150 15	1.5					USB/USB (4)	_
152 33510030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED, 153 34010030 1 INTERIOR CREW LIGHTS, WHELEN 6" ROUND RED, 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED SPOT LIGHTS 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 156 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 157 28030500 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 11031687 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 17081687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW 158 11031687 1 ORIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW 158 1	1	51				ANHELEN 6" ROUND RED/CLE AND	
153 34010050 1 SPECIAL Hand Held Spot Light CAB PILLAR LED 31 0.71 154 33028888 1 SPECIAL Hand Held Spot Light CAB PILLAR LED 31 0.71 155 28010750 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (TM-31) 156 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 157 28030500 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 11031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW 7) 158 11031687 1 ORIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW 7) 159 11031687 1 ORIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW 7) 150	1	152				- PNALIGHTS, WHELEN 6" ROUND RED) CERT	
154 350/2000 1 DEFROSTER, HEATER & A/C, SEVERE CLIMATE (HIM.) 155 28010750 1 HEAT TO FEET 156 28090003 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 158 11031687 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 11031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW		153				Hand Held Spot Light CAB PILLAR LED STOT	
155 28010730 1 HEAT TO FEET 156 28090003 1 HEAT TO FEET 157 28030500 1 DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 158 11031687 1 TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 11031687 1 DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW 7 CEANLY 7	-					DEFROSTER, HEATER & A/C, SEVERE CLIMATE (11VI-5.1)	
156 28030500 1. DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 157 28030500 1. DEFROSTER DUCTWORK, ENTIRE WINDSHIELD 158 11031687 1. TOP HEAT/AC STORAGE, TOOL MOUNTING PLATE, 25" x 19.5" 158 11031687 1. DRIVER'S SEAT, BOSTROM SIERRA HIGH BACK AIR RIDE ABTS (DURAWEAR PLUS, LOW) 7 (FAME)	-					HEAT TO FEET	
DRIVER'S SEAT, BOSTROM SIERRA THOMAS	. }		-		 	DEFROSTER DUCTWORK, ENTIRE WINDSHIELD	
1 1 0404 L 1 CEANN			-		-	1. TOP HEAT/AC STORAGE, TOOL MOUNTING FERTING 1. TOP HEAT/AC STORAGE, T	
159 38510104 SEAW)				510104	+	DRIVER'S SEAT, BOSTROW SILMOTT SEAM) 7	

						cription/Comments	
	İtàr	ŋ#	Qty	Iten	n Des	CONTRACTOR	
ine 160		0000	1	HEL	MET S	STORED IN COMPARTMENT S SEAT, BOSTROM TANKER 450, ABTS SCBA (DURAWEAR PLUS, LOW SEAM)	
	ļ	10118	1	OF	FICER'	S SEAT, BOSTROM TANKEN 400,	
161	 		1	OF	FICER	'S SEAT COMPT, FRONT DOOR	1
162		30020	1	 H	ELME	STORED IN COMPARTMENT	-
163		320000 		+	REW S	r Stored in Compartment SEAT 1, BOSTROM TANKER 450, ABTS SCBA (DURAWEAR PLUS, LOW SEAM)	
164	39	521129 	1	+		ET STORED IN COMPARTMENT	_
16	5 38	3320000	1			ET STORED IN COMPARTMENT SEAT 2, BOSTROM TANKER 450, ABTS SCBA (DURAWEAR PLUS, LOW SEAM)	
10	66 3	9521130	1	·	CREVV	TET STORED IN COMPARTMENT THE STORED IN COMPARTMENT ADDICT. ABTS SCBA FLIP UP (DURAWEAR PLUS, LOW	
1	67 3	832000	0 :	1	HELN	NET STORED IN COMPARTMENT N SEAT 3, BOSTROM TANKER 400CT, ABTS SCBA FLIP UP (DURAWEAR PLUS, LOW	
-	L68	3952143	30	1	CEN	W1	
-		383200	00	1	HEL	MET STORED IN COMPARTMENT CIAL ITEM, EMS CABINET, FORWARD FACING DOUBLE ON SEAT LOCATIONS 6 &4 CIAL ITEM, EMS CABINET, FORWARD FACING	
-		395888		1	SPE	CIAL ITEM, EMS CABINET, FORWARD OPENING	
-	170	39588		1	SPI	CIAL ITEM, INTERIOR COMPARTMENT OPENING	
-	171			888 1		ECIAL ITEM, 2 ADJUSTABLE SHELVES	
	172	 				DECIAL ITEM, DOOR LOCK	
	173	<u> </u>					
	174		0200	1		THE REACKETS, IMMI SMART DOCK (4)	
	175	396:	10115	4		SYSTEM, AKRON / WELDON	
	17	6 384	10000	1	1	COMPT, FRONT DROP-DOWN DOORS (
	17	7 397	710015		1	OVERHEAD STORAGE, FRONT OF 15" RR W/DOORS	
	1	78 11	031755	i	1	PUCTOMERS RADIO-DUAL READ	
	1	.79 84	154160	1	1.	MOUNTING OF CUSTOMERS 2-WAY RADIO ANTENNA (1) INSTALLATION OF CUSTOMERS 2-WAY RADIO ANTENNA (1)	
	-		454170	00	1.	INSTALLATION OF COSTON	
	-		300801	50	1.	HD STEREO, JENSEN, AM/FM/WB/BT HD STEREO, JENSEN, AM/FM/WB/BT HD STEREO, JENSEN, AM/FM/WB/BT	
	-		845302		1.	WIRED INTERCOM, DAVID CLARK - 6 POSITION WIRED INTERCOM, DAVID CLARK - 6 POSITION W/BUILT-IN DVR	
	-	102	84561		1	WIRED INTERCOIN, BY CAMERA SYSTEM, FRC, INVIEW 360HD W/BUILT-IN DVR	.
	-	183			1	SPECIAL ITEM, mounting of 5 vehicle chargers SPECIAL ITEM, MOUNTED	
	}	184	11088			ORECIAL ITEM, SUTPHEN SUPPLIED RADIO DOAL VI	8
	1	1.85	11088	3888 	1 1		-

				•				SEA STATE				
					•		Aire					
			Ehr T	Qty	iltem	Descript	Ion/Comments					
	Line	Iten	- 1	1	PUM	P & PLUIV	PUMP & PLUMBING					
	186	1031	0200	L	•		D1 10 (1) 79 1 100					
1		- -		Τ	Town	AX-2000	GPM 6" SUCTION SINGLE STAGE PUMP					
ţ	187	600	12550	1	-		ALE, G-SERIES, REAR MOUNTED					
	188	600	25000	1	GEA		HAIF					
			026000	1	PU	MP PACK	ING, HALE					
	189				M	ANUAL P	UMP OVERRIDE	1				
	19		003036			TES	T, THIRD PARTY TESTING	-				
	1	91 6	003512	23			Y COOLER (HEAT EXCHANGER)	-				
	1	192	515100°	00	1 1		TO DIDING	_				
	-		620100	302	1 1:	STAINLES	S STEEL PIPING					
		193			1	TMO 3,,	TANK TO PUMP LINES W/CHECK VALVE	_				
		194	66020									
	-	195	61720	0100	1	W7.2.2.2	AKRON HEAVY DUTY TOR, VALVE, PUSH/PULL HANDLE, INNOVATIVE CONTROLS					
	-	196	6177	0120	1							
			720	10201	1	TANK						
	,	197			1 VALVE, AKRON HEAVY DUTY 1 VALVE, AKRON HEAVY DUTY 1 ACTUATOR, VALVE, PUSH/PULL HANDLE, INNOVATIVE CONTROLS 1 TRG/1939							
		198	617	20100			NATOR VALVE, PUSH/PULL HANDLEY					
		199	9 61	770120	1	- Ac.	SSURE GOVERNOR, CLASS 1 TPGJ1939					
		20	0 63	010405	, 1	PRES	AKE PRESSURE CONTROL, TFT A1831					
				121041	-	INT	AKE PRESSURE COTO					
		2				1 6"	MAIN SUCTION, LEFT SIDE					
		2		5302110			LEFT SIDE INLET					
			203	650303	00	1 3	ALVE, AKRON HEAVY DUTY					
		-	204	617201	100		ching HANDLE					
		-		61770	100	1.	ACTUATOR, VALVE, SUIVEL, W/PLUG					
			205			1.	THREADS, SPECIAL					
			206	60036			ACTUATOR, VALVE, 300000 THREADS, SPECIAL SPECIAL Adapter for Left Suction ADAPTER, 2.5" NST M X 2.5" SPEC FE SWIVEL, W/PLUG					
			207	6307	8888	1	& CHAIN 6" MAIN SUCTION, RIGHT SIDE					
			208	630	25100	1						
				-	30300	1	3" RIGHT SIDE INLET					
			209			1	VALVE, AKRON HEAVY DUTY	9				
			21	.0 61	720100		ACTUATOR, VALVE, SWING HANDLE	-				
			2:	11 61	.77010 ⁰	1	ACIO					
			i									

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	egent/chippenson del
d Oty Item Description/Comments	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ine Item # Qty Item Description THREADS, SPECIAL W/PLUG & CHAIN	C. Participation of the Communication of the Commun
ine Item # UV THREADS, SPECIAL 212 60036020 1 THREADS, SPECIAL ADAPTER, 2.5" NST M X 2.5" SPEC FE SWIVEL, W/PLUG & CHAIN ADAPTER, 2.5" NST M X 2.5" SPEC FE SWIVEL, W/PLUG & CHAIN	
213 63034750 1 ADAPTER, 2.5" NST W. ADAPTER, 2.5" N	
r" ERONT SUCTION,	
214 65560300 HALE MASTER INTAKE VALVE, ELLO	
215 63030400 PELIFF VALVE FOR MIV	
216 63060100 F" NOT X 6" NST	
217 65562120 1 ADAPTER, 5 NI TV 217 65562120 1 SPECIAL ITEM, ADAPTER, 6" NST X 5" STORZ 3 SPECIAL ITEM, ADAPTER, 6" NST X 5" STORZ	
218 65588888 1 SPECIAL ITEM, ADVI	
2.5" DISCHARGE, ELL	
LANUE AKRON FILTE	
1 C17701100 1	
221 61770100 DISCH, INNOVATIVE CONTROL	
222 77021015 1 GAUGE, DISCHARGE TERMINATION, STRAIGHT 1 DISCHARGE TERMINATION, STRAIGHT	1
1 1 (10101100) 1	-
CO036020 1 THREADS, STATISTICS SPEC M W/CAP & CHAIN	-
225 6185020 1 ADAPTER, 2.5" SPEC FE X 1.3	
226 61860100 2.5" DISCHARGE, LEFT - POSITION 2	
227 70525123 AKRON HEAVY DUTY	-
1 007201100 1C.UANUE	
228 61720100 1 ACTUATOR, VALVE, SWING THAT 229 61770100 1 GAUGE, DISCH, INNOVATIVE CONTROLS TC SERIES, 2.5"	
230 77021015 1 GAUGE, DISCHARGE TERMINATION, STRAIGHT DISCHARGE TERMINATION, STRAIGHT	
1 20010100	
THREADS, SPECIAL WICAR & CHAIN	
232 60036020 1 ADAPTER, 2.5" NST FM X 2.5" SPEC M W/CAP & CHAIN	
233 61850100 SPADTER, 2.5" SPEC FE X 1.5 NOT W	
234 61860,100 au DISCHARGE, RIGHT - POSITION 5	
285 71025130 1 3" DISCIDING CLOSE VALVE, AKRON SLOW CLOSE	
236 617201.10 1 VALVE, ARRONDE ACTUATOR, VALVE, SWING HANDLE	10
	ŢÜ
237 61770100	

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	oguad phistocas sub
aty Item Description/Comments) A STATE OF THE PARTY OF THE P
ing Iram#	1/20003333.000
238 77021015 1 GAUGE, DISCHARGE TERMINATION, STRAIGHT DISCHARGE TERMINATION, STRAIGHT	
(401)100	
239 618162 240 60036010 1 THREADS, NST 240 60036010 1 ADAPTER, 3" NST FE X 5" STORZ W/CAP & CHAIN, TFT	
241 61840260 1 ADAPTER, 3" NST FE.X.	•
3" DISCHARGE, NIGHT	
AKRON SLOV	
1 0077111111	
244 61770100 DISCH, INNOVATIVE CONT.	
245 77021015 1 GAUGE, DISCHARGE TERMINATION, STRAIGHT 1 DISCHARGE TERMINATION, STRAIGHT	
(4010100)	
246 610250 1 THREADS, NST 247 60036010 1 ADAPTER, 3" NST FE X 5" STORZ W/CAP & CHAIN, TFT ADAPTER, 3" NST FE X 5" STORZ W/CAP & CHAIN, TFT CONTINUE CONTINUE	
248 61840260 1 ADAPTER, 3 No. 1 248 1 2.5" DISCHARGE, RIGHT - POSITION 5	
249 71025125 1 2.5" DISCHARGE, MONTH OF THE PROPERTY DUTY	
VALVE, AKRON TICK	
250 61720120 1 ACTUATOR, VALVE, PUSH/POLLS 251 61770120 1 ACTUATOR, VALVE, PUSH/POLLS 251 G1770120 1 GAUGE, DISCH, INNOVATIVE CONTROLS TC SERIES, 2.5" CTRAIGHT	
251 617/0125 1 GAUGE, DISCH, INNOVATIVE CONT.	ļ
252 77021013 DISCHARGE TERMINATION, STRAIGHT	
1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1
254 60036020 5" NST FIM X 2.5" SPEC IN	7
255 61850100 TEAND TREAD W/O	-
255 61850100 1 ADAPTER, 2.5" SPEC FE X 1.5" NST M W/CAP & CHAIN 256 61860100 1 ADAPTER, 2.5" SPEC FE X 1.5" NST M W/CAP & CHAIN 256 61860100 1 SPECIAL ITEM, CAP FOR 5" STORZ X 2.5" CLEVELAND TREAD W/CAP	-
257 71080000 SPECIAL TIENT, C	
257 72088888 1 SPECIAL ITEM, SPECIAL ITEM, CAP FOR 5" STORZ (SHIP LOOSE) (2) 258 71088888 1 SPECIAL ITEM, CAP FOR 5" STORZ (SHIP LOOSE) (2) SPECIAL ITEM, CAP FOR 5" STORZ (SHIP LOOSE) (2)	
258 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STOLLY 259 71088888 1 SPECIAL ITEM, CAP FOR 5" SPECIAL ITEM,	
258 71088888 1 SPECIAL ITEM, CAP FOR 5" STORZ (SHIP LOOSE) (2) 259 71088888 1 SPECIAL ITEM, CAP FOR 5" STORZ (SHIP LOOSE) (2) 259 71088888 1 SPECIAL ITEM, ADAPTER, 2.5" SPEC FE X 1.5" NST M W/CAP & CHAIN (SHIP LOOSE) (2)	
260 71088000 DISCHARGE 2.5" VALVE 2.3 F.1.2	
261 715301.00 1 VALVE, AKRON HEAVY DUTY VALVE, AKRON HEAVY DUTY VALVE, AKRON HEAVY DUTY	
262 61720100 ACTUATOR, VALVE, PUSH/PULL TOTAL	11
263 61770120 1 ACTOR	

	Will by October 1989
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Av/comments	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
tine Item# Qty Item Description/comments	
264 77021020 DISCHARGE TERMINATION, STRAIG	
con36020	
267 6183020 1 ADAPTER, 2.5" SPEC FE X 1.5 TOPE PIGHT REAR	
268 61860.000 PICCHARGE 2.5" VALVE 2.5" PIFE III	
269 71830100 1 DISCH VALVE, AKRON HEAVY DUTY VALVE, AKRON HEAVY DUTY VALVE, AKRON HEAVY DUTY	
1 1 (1770),100 1 1	
ACTUATOR, VALVE, 100 SERIES, 2.5"	1
271 61/70120 DISCH, INNOVATIVE CONT	
272 77021015 1 GAUGE, D	1
- (((((((((((((((((((
THREADS, SPECIM W/CAP & CHAIN	
ADAPTER, 2.5" NOTTHE	1
275 61850100 1 ADAPTER, 2.5" SPEC FE X 1.5" NST M W/CAT CO. 276 61860100 1 ADAPTER, 30 DEGREE ELBOW TO BE PART OF THE ADAPTORS (7) SPECIAL ITEM, 30 DEGREE ELBOW TO BE PART OF THE ADAPTORS (7)	-
276 61860100 1 ADAF 12.9	
277 71888888 1 SPECIAL ITEM, DISCHARGE 2.5" TO FRONT BUIMPER DISCHARGE 2.5" TO FRONT BUIMPER	
277 DISCHARGE 2.5" TOTAL 278 72230200 1 DISCHARGE 2.5" TOTAL 278 72230200 1 DISCHARGE 2.5" TOTAL 278 72230200 1	
72230200 1 VALVE, AKRON HEAVY DUTY VALVE, AKRON HEAVY DUTY VALVE, AKRON HEAVY DUTY	
1 (477)1100	
279 617203 1 ACTUATOR, VALVE, PUSH/POLIS 280 61770120 1 ACTUATOR, VALVE, PUSH/POLIS 280 61770120 1 GAUGE, DISCH, INNOVATIVE CONTROLS TC SERIES, 2.5"	
1 1 97(1/3.0.40 1 1	
THREADS, SPECIAL THREAD	
282 60036020 1 ADAPTER, 2.5" NST FM X 2.5" SPEC M W/CAP & CHAIN	
282 61850100 1 ADAPTER, 2.5" NST FW X 2.5 283 61850100 1 ADAPTER, 2.5" SPEC FE X 1.5" NST M W/CAP & CHAIN ADAPTER, 2.5" SPEC FE X 1.5" NST M W/CAP & CHAIN	
283 61850100 1 ADAPTER, 2.5" SPEC FE X 1.5" NST M W/CAP & COUPLING M 284 61860100 1 ADAPTER, 2.5" SPEC FE X 1.5" SPEC FE X (2) 1.5" PYROLITE COUPLING M SPECIAL ITEM, GATED WYE 2.5" SPEC FE X (2) 1.5" PYROLITE COUPLING M	
285 72288888 1 SPECIAL ITEM, GATE	
DECK GUN DISCHAR	
286 72530100 VALVE, AKRON SLOW CLOSE VALVE CONTROLS	
1 c173(110)1/D1(1, Drawn)	
287 61770120 1 ACTUATOR, VALVE, PUSH/FOED 288 61770120 1 GAUGE, DISCH, INNOVATIVE CONTROLS TC SERIES, 2.5"	40
	12
289 7702.10.20	

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					on/Comments	general series and control of the series and
**************************************	Item#	Qt	y Ite	m Descripti	ON/COMPANIED	
Line	72570100	1	DE	ECK GUN TER	MINATION, THREADED	
290		-	1 E	XTENDER, ELI	KHART 8599, MANUAL	
291	7257022		2 5	ipecial Threa	ds = Cleveland thread	
292	6003602	20	1 5		ds = Cleveland thread EEDLAYS W/LIFTOUT TRAY & ONE 2.5" CROSSLAY (SM)	
293	728224	00	1		ON HEAVY DUTY (3) LIANDLE, INNOVATIVE CONTROLS (3)	
29	4 617201	roo	3		Late (011) HAIVDEN	<u>,</u>
29		120	3	ACTUATOR,	, VALVE, PUSH/POLITIES	
			3	GAUGE, DI	SCH, INNOVATIVE	
2			3	THREADS,	SPECIAL (3)	7
		6020			WARE END X 2.5" SPECIAL DEVI	-
	298 618	50100 	1		ALLINA MANEBBING FOR CROSSIA.	
-	299 729	10802	1	COVERD	ACOUNT ACCOUNT ASTENERS, METAL AIRPLANE LATCHES	_
t	300 725	932230	, 1	COVER	-ASTEN-	
<u> </u>		88888	8 1	SPECIAL	ITEM, speedlays	
ļ	302	28888		1 SPECIA	IL ITEM, 3 HOSE TRAYS	
	302			1 MAST	ER PUMP DRAIN, MULTIPORT	
•	305	5 1742 0		DRAII	ER PUMP DRAIN, IVE	
	304	61730	005			
	305	10310	210		FOAM 37	
	ļ <u>+</u>				AM SYSTEM, HALE SMARTFOAM 2.1A	
	306	7357	0620	L	WAR GALLON BUILT INTO BOTTOM	
	307	735	31425	1. FO	JARTER TURN VALVE, MANUAL FOAM FLUSH	
		735	76720	1 0	UARTER TURN VALUE,	_
	308		580004	1 F	DARTER TO	
	309				PUMP PANEL	
	31	0 10	310220	۱ <u>ــــ</u>		
				20 2	PA SM3 - SIDE MOUNT PUMP PANEL	
	\ 3		491013		PANEL FINISH, BRUSHED STS	
	13	312	749305		ESCUTCHEON PLATES	
	-	313	749310	000 1		13
	+	31.4	74931	.050 1	COLOR CODING	
	L					

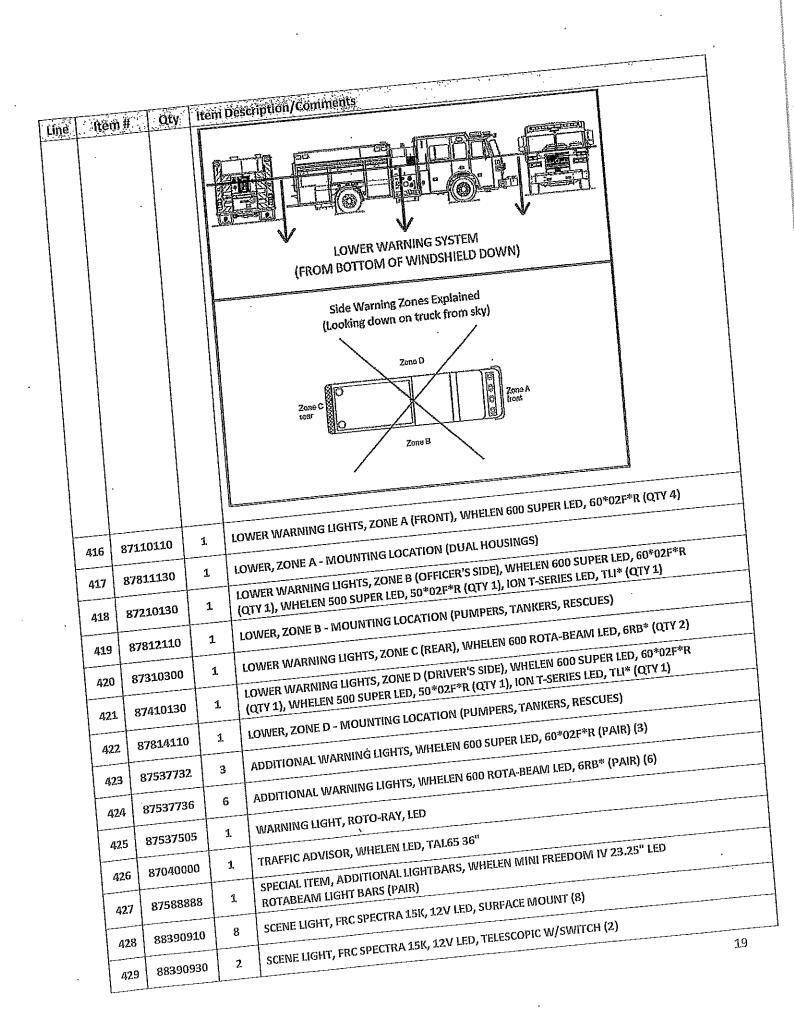
					(b) (b)	e Naco	ription/Comments				
Ţ	ine	lte	m#	Qty	Item	40 MA 	DULE FRAMEWORK, PAINTED BY SUTPHEN				
	315	749	31200	1	PUIV	VIP 1910	IISH, PAINTED BY SUTPHEN	l			
+	316	749	31320	1	PUN		IG FINISH, PAINTED BY SUTPHEN				
-	317	749	31530	1	PLU	UMBIN	IG FINISH, PAINTEE	1			
	318	74	931610	1	EX	TERIO	R DUNNAGE AREA PANEL, DIAMONDPLATE	1			
1			088888	1	SP	PECIAL	ITEM, module extension and design	-			
	319		5040215		-\- TI	ROUGI	H IN RUNNING BOARD, BOTH SIDES	-			
	320			-		PUMP (OPERATOR LIGHTS, TECNIQ E45 LED STRIP				
	323		5510225 				- ANEL LIGHTS OFFICER'S SIDE, TECNIQ E45 LLD 01				
	32		/553011 				THE LED LIGHT IN PUMP MODULE ENCLOSES				
	32	23	7558888 	38	1	3FLCI	AL ITEM, udgrade panel lights and operator lights				
	3	24	75588888 1 SPECIAL ITEM, HIGH STATE OF THE SPECIAL ITEM, HIGH		CALIGES & CONTROLS						
	3	25	760101	.05	1						
		326	600280	50	1	PUMP PRIMER, TRIDENT, AIR					
	-	327	60028050 1 (1) PRIMER BUTTON - MAIN SUCTION 60028310 1 (2) PRIMER BUTTON - MAIN SUCTION COMPRESSION FITTINGS ON AIR SYSTEM (CTZ PUMP MODULE)		RIMER BUTTON - IVIANV CO. AIR SYSTEM (CTZ PUMP MODULE)						
	-	328	76025	76025100 1 76031900 1		COMPRESSION FITTINGS ON AIR STOLEN					
	-					AIR	HORN PUSH BUTTON SWITCH ON PUMP PANEL				
	}	329	702	1920			X FOR MIC OR HEADSET ONLY				
	}	330			1	GA	AUGES, MASTER, INNOVATIVE CONTROLS TC SERIES, 4"				
		331		L0065	1		THE MATER LEVEL, INNOVATIVE CONTROLS SEE				
	ı	33		10050 			WATER LEVEL, WHELEN 500 LED WONSTERVEY				
		33	3 775	32005	1.		AUGE, WATER				
		33	34 77	540100		_1					
		3	35 10	310230		1	WATER TANK WATER TANK				
		336 83525000			 T	WATER TANK BRAND, UNSPECIFIED					
				336 8352500		1	WATER TANK, 1000 GAL, POLY				
	_		337 8	351020	5	1.					
	-	-	338 1031030		00	1	BODY				
		-					BODY SUBFRAME, PUMPER/TANKER	14			
			339	800299	900	1	BODY SUBPRISION	14			
		Ţ									

1 1 1 1 1 1 1 1 1 1	1 ADJUSTABLE SHELF [L3] (2) 0 2 ADJUSTABLE SHELF [L3] (1)	
346 8114010	1 FIXED VERTICAL DIVIDED. 1 FIXED VERTICAL DIVI	
347 8115000 348 811503	200 1 600# SLIDE-MASTER TRAY [L3] (1)	
348 811503	2 ADJUSTABLE SHELT 2004 SUDE-MASTER TRAY [R1] (1)	
350 81150	0300 ADJUSTABLE SHELF [R2] (2)	
557	ADJUSTABLE SHELF [R3] (2)	
353 811	30200 2 AD30 1 600# SLIDE-MASTER TRAY [R3] (1) 150300 1 600# SLIDE-MASTER TRAY [A1] (1)	15

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					16.4	on/Comments	, , , , , , , , , , , , , , , , , , ,		
Line	Iter	n#	Qty	Item Dê	script	CK IN COMPTS			
UNISTRO DAINTED									
355			1	COMPT	DOOF	S, ROM ROLL OV			
356	<u> </u>	20110 	1	DOORS	SILL PF	S, ROM ROLL-UP, PAINTED ROTECTION, BODY COMPTS, NOT FACTORY PROVIDED	1		
357	802	230620 	1	7500		T DOOR (A1) ROM ROLL-UP, PAINTED TOOR (A1) ROMPT. NOT FACTORY PROVIDED	-		
351	8 80	10225025 Land REAR COVII 17							
35	9 8	023065	0 1	DOOF	SILL I	DOR DRIP PAN/GUARD (WITH DRAIN) (7)	_		
		3023000		ROLL	-UP D	OOR DRIP PART			
3				CON	IPT IN	TERIOR FINISH, SMOOTH GHTING, ROM DUROSTRIP LED LIGHT STRIPS, 2 PER COMPT GHTING, ROM DUROSTRIP LED LIGHT STRIPS, 2 PER COMPARTMENTS			
\ a	361	802303			MPT L	GHTING, ROM DUROSTRIP LED LIGHT STATEMENTS TEM, ADDITIONAL GRAB HANDLES ON COFFIN COMPARTMENTS TEM, ADDITIONAL GRAB HANDLES ON COFFIN COMPARTMENTS			
	362	845311	120						
-	363	80288	888	1 SPI	ECIAL	TEM, ADDITIONAL GRAD			
-		80288	8888	1 SP	ECIAL	ITEM, ROW WHITE			
. \	364	L		1 B	ODY E	BODY EXTERIOR			
Ì	365	1031	.0305						
	3			1	HOSEE	SED, ALUM FLOORING			
	366	` \	10000			AND HOSEBED HEIGHT			
	36	7 813	330100	1		THE REAL PROPERTY OF THE PROPE			
	36	81	<u>41</u> 0200	1	covi	R, ALUMINUM Z PC, MARIER, ALUMINUM Z PC, MARI			
			1331155			M HOSEBED COV			
	3					AR HOSEBED COVER, VINYL			
			31431200		co	VER FASTENERS, BUNGIE CORDS WITH ORANGE TAB			
		371	8144020	0 1	•				
	+	372	813303	04 1		OSEBED LIGHTING, SIDES, TECNIQ E44 LED LIGHT STRIPS OSEBED LIGHTING, SIDES, TECNIQ E44 LED LIGHT STRIPS			
	+		813321	.15 1					
	\	373	81388			SPECIAL ITEM, 1. additional most reason of the special state of the special sp			
		374			1	SPECIAL ITEM, REFLECTIVE LETTERMONE			
		375	81388	8888		HANDRAILS, KNURLED STS			
		376	8191	0100	1	HANDRAILS, KNURLED STS STEPS, FRONT BODY, IC FOLD DOWN W/LIGHT (ALUM PUMPERS)			
		37		10000	1.	STEPS, FROM:			
		-	200	10000	1.	STEPS, REAR BODY (14x11 & 14x8) STEPS, REAR BODY (14x11 & 14x8)			
		37			1.	REAR ACCESS LADDER, STAINLESS STEEL	16		
		3		040100		RUB RAILS, ANODIZED ALUM			
		1 3	380 82	51.0000	1.				
		L							

ne	lten)#	oty.	ltem	Description/Comments Annual PRE PRG1, C-SER, TANKER)	_					
	83010		1	ALUN	MINUM TREADPLATE (ALUM PPR, PRG1, C-SER, TANKER)						
82			1	REAP	R STEP/TAILBOARD CORNERS, STRAIGHT						
83	<u>-</u>	0052	1.	10 50	CBA CYLINDER COMPTS (3 TRIPLE-FMI, 1 SINGLE-SIG4)						
		0220	1.	DIVI	DER FOR (2) TRIPLE SCBA COMPARTMENTS						
384			1	DO	OR FINISH, BRUSHED STAINLESS, SINGLE/DOUBLE SCBA COIVIPT (1)	{					
385		90310		DO	OR FINISH, BRUSHED STAINLESS, TRIPLE SCBA COMPT (3)						
386	802	90420	3	l	LETE 6" SUCTION HOSE						
387	885	20300	1	1							
388	885	540550 	1		LETE STD SUCTION HOSE MTG						
389	88	550300	1		RAINER NOT PROVIDED						
390	83	83030705 1 89010000 1		83030705 1		RE	REAR FENDERS, ALUMINUM TREADPLATE				
391	89			D	UO-SAFETY ,900A 24'2-SEC & 775A 14' ROOF & 10' FOLDING						
		590003	1		ROUND LADDER STORAGE COMPARTMENT						
392		9520220	1	L	ADDER ENCLOSURE, SMOOTH ALUM DOOR						
393					FULL ENCLOSURE FOR LADDER CHUTE						
39		9590025			SPECIAL ITEM, n/a						
39		9088888		- 1	SPECIAL ITEM, TRASH HOOK HOLDER						
39	96	39088888 	8 '								
3	397 1031031		0	1.	ELECTRICAL ELECTRICAL						
			· 		2" RECEIVER, SIDES						
3	398	8023210	00	1							
	399	8023213	1.0	1	2" RECEIVER, REAR						
	400	802321	75	3	WIRING FOR WINCH RECEIVER (3)						
-	401	845501	.99	1	LICENSE PLATE BRACKET - NOT PROVIDED						
-	402	845111	100	1.	BODY ELECTRICAL DESCRIPTION						
-	403	84520	000	1.	BACK UP ALARM, ECCO SA917 TAILLIGHTS, WHELEN 600 SERIES, LED STOP/TAIL/TURN/REVERSE, INDIVIDUALLY						
-		85010			TAILLIGHTS, WHELEN 600 SERIES, LED STOP, TAIL, TAILLIGHTS, WHELEN 600 SERIES, LED STOP, TAILLIGHTS, WHELEN 600 SERIES, LED STOP, TAILLIGHTS, WHELEN 600 SERIES, WHELEN 600 SERIES, WHELEN 600 SERIES, WHERE 600						
-	404	}			ICC LIGHTS, LED						
	405	85110		1.	STEP LIGHTS, LED, REAR BODY & WHELEN 2G AT PUMP PANEL						
	406	8551.0	0200	1.	SIEF HOITIO, CO.	وبد					

			Warning Carrier	
17.55.55	Item#	Qty 1	Item Description/Comments SPECIAL Ground Lights MULTI COLOR GROUND LIGHTING	
Line	85728888	1 1	SPECIAL Ground Lights MULTI GE	
407			DELETE REAR WORK LIGHTS	
408	86528999		PRING SYSTEM, UPPER (PUMPER)	
409	8660000	0 1	UPPER WARNING SYSTEM (FROM BOTTOM OF WINDSHIELD UP)	
			Side Warning Zones Explained (Looking down on truck from sky) Zone D Zone A from Zone B	
			TONE A (FRONT), WHELEN FREEDOM IV 81" LED LIGHT DAY	
			1 UPPER WARNING LIGHTS, ZONE A (FRONT), WHELEN FREEDOM IV 81" LED LIGHT BAR, 1 F4N1QLED, 20 MODULES	
	410	86610230	FANTOLED, TONE A LIGHTBAR, STANDARD CONFIGURATION	
	411	86920100	1 UPPER ZONE A LIGHTBAR, STANDARD CONFIGURE 1 UPPER WARNING LIGHTS, ZONE B (OFFICER'S SIDE), COVERED BY ZONES A & C 1 UPPER WARNING LIGHTS, ZONE B (OFFICER'S SIDE), WHELEN LED BEACONS, ROTA-BEAM R316*F	
	412	86699999	1 UPPER WARNING LIGHTS, ZONE B (OFFICER'S SIDE), COVERED BY ZONE 1 UPPER WARNING LIGHTS, ZONE C (REAR), WHELEN LED BEACONS, ROTA-BEAM R316*F UPPER WARNING LIGHTS, ZONE C (REAR), WHELEN LED BY ZONES A & C	
	413	86710200	UPPER WARNING LIGHTS, ZONE O (PAIR) 1 UPPER WARNING LIGHTS, ZONE D (DRIVER'S SIDE), COVERED BY ZONES A & C 19 1 UPPER WARNING LIGHTS, ZONE D (DRIVER'S SIDE)	
		8689999	1 UPPER WARNING LIGHTS, ZOWER (PUMPER)	
	414		OPTICAL WARNING STSTEM	



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432 88399940 1 ADDITIONAL SPECIAL ITEM, BROW LIGHT SWITCHING	
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434 10310410 FAM. CORROSION REDUCTION PROGRAM (PROPOSALS)	
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435 89910010 PAINT SCHEME	
436 90010020 TOTAL SAR & BODY	
90030010 POTTOM OF WINDS	
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PAINT FRAME RAILS & BODY REAR DROP - BLACK	
439 9003ULUV PRO FRAME RAIL COATING	-
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444 9068U3ZU GUEVBON STRIPING, LADDER ENCLOS	
445 90684120	
445 9000 1 EQUIPMENT EQUIPMENT EQUIPMENT SAINLESS STEEL NUTS & BOLTS	
446 10310420 1 EQUIPMENT EQUIPMENT EQUIPMENT MISC EQUIP - (1) PINT TOUCH-UP PAINT, STAINLESS STEEL NUTS & BOLTS	20
107 91010000 1 MISC EQUIP - (1) PIWI	ZU
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PURCHASE AGREEMENT

FOR SUTPHEN FIRE APPARATUS

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THIS AGREEMENT, made and entered into this day of, 20by and between SUTPHEN CORPORATION of Dublin, Ohio, hereinafter called "SUTPHEN" and the Brook Park Fire Department of Brook Park, Ohio, hereinafter called "PURCHASER",
 PURCHASE: Purchaser hereby agrees to buy and Sutphen hereby agrees to sell and furnish to Purchaser the apparatus and equipment according to the Sutphen Proposal attached hereto and made a part hereof, and to deliver the same as Proposal attached hereto and made a part hereof, and to deliver the same as Proposal attached hereto and made a part hereof, and to deliver the same as Proposal attached hereto and made a part hereof, and to deliver the same as Proposal attached hereto and made a part hereof, and to deliver the same as Proposal attached hereto and made a part hereof, and to deliver the same as Proposal attached hereto and made a part hereof, and to deliver the same as Proposal attached hereto and made a part hereof, and to deliver the same as Proposal attached hereto and made a part hereof, and to deliver the same as Purchaser that the fire Protection Association ("NFPA"), Environmental Protection Agency ("EPA") or changes legislated by Federal, State or Local Governments or Agency ("EPA") or changes legislated by Federal, State or Local Governments or Agency ("EPA") or changes legislated by Federal, State or Local Governments or Agency ("EPA") or changes legislated by Federal, State or Local Governments or Changes in part availability or vendor relationships that impact the cost to Agency ("EPA") or changes legislated by Federal, State or Local Governments or Agency ("EPA") or changes legislated by Federal, State or Local Governments or Agency ("EPA") or changes legislated by Federal, State or Local Governments or Agency ("EPA") or changes legislated by Federal, State or Local Governments or Agency ("EPA") or changes legislated by Federal, State or Local Governments or Agency ("EPA") or changes legislated by Federal, State or Local Governments or Agency ("EPA") or changes legislated by Federal, State or Local Governments or Agency ("EPA") or changes legislated by a significant part and EPATOR ("EPA") or changes legislated by a significant part and EPATOR ("EPA") or changes legislated by a
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executed by both Sutphen and Purchaser.

Sutphen shall provide written notice to Purchaser as soon as it reasonably believes Sutphen shall provide, upon written request, any provision may be invoked. Sutphen shall provide, upon written request, documentation of such changes and increases.

3. <u>DELIVERY:</u> The apparatus and equipment being purchased hereunder shall be within delivered to Purchaser at sutphen after the receipt and acceptance of this approximately 38-44 months agreement at Sutphen's office, provided that such delivery date shall be automatically extended for delays beyond Sutphen's control, including, without automatically extended for delays beyond Sutphen's control, including, without limitation, strikes, labor disputes, riots, civil unrest, pandemics, war or other military limitation, strikes, labor disputes, riots, civil unrest, pandemics, war or other casualty, or actions, sabotage, government regulations or controls, fire or other casualty, inability to obtain materials or services.

- 4. <u>SUTPHEN WARRANTIES</u>: Sutphen warrants the apparatus purchased here under as set forth in the warranty included with bid proposal.
- 5. TESTING SHORTAGES: The apparatus shall be tested per NFPA #1901 at Sutphen's manufacturing facility. Purchaser agrees that the apparatus and equipment being purchased hereunder will not be driven or used in any manner until it is paid for in full, provided, however, that if there are any minor shortages, Purchaser may withhold a sum equivalent to the retail purchase price of any equipment shortages at the time of delivery and may use the apparatus and
 - 6. <u>DEFAULT:</u> In the case of any default in payment hereunder or in the payment on any notes, negotiable paper, obligations or other instruments issued by Purchaser, Sutphen may take full possession of the apparatus and equipment or of the piece or pieces upon which default has been made, and any payments that have been made theretofore shall be applied as rent in full for the use of the apparatus and equipment up to the date of taking possession by Sutphen.
 - 7. PURCHASER WARRANTIES: With the signing of this agreement, Purchaser warrants that it has the full power and legal authority to enter into this agreement warrantees that funds for its purchase are available or in the process of
 - ACCEPTANCE: This agreement shall not be binding until it is signed and approved
 - 9. TAXES, ETC.: The purchase price provided for herein does not include any federal, state or local sales tax, duties, imposts, revenues, excise or other taxes which may hereafter be imposed by governmental authority or otherwise and which are made applicable to the apparatus or equipment covered by the agreement. In the event applicable to the apparatus of equipment obvered by the agreement. In the event that any such taxes are subsequently imposed and become applicable, the purchase price herein shall be increased by the amount of such taxes and such sum shall be immediately paid by Purchaser to Sutphen. To the extent applicable, the prices and deliveries set forth herein are subject to the Defense Production Act.
 - 10. INSURANCE: Sutphen shall provide insurance insuring the apparatus and equipment against loss by fire, theft or collision and insuring against property equipment against 1035 by me, unsit of comsion and mading again damage and personal injury through the three (3) day delivery period.
 - 11. GENERAL: This agreement and the Sutphen proposal provided herein take precedence over all previous negotiations, oral or written, and no representations or warranties are applicable except as specifically contained in this agreement or in the Sutphen proposal attached hereto. No alteration, modification, amendment or change of this Agreement shall be binding unless executed in writing by the parties. Unange of una Agreement shall be deemed a waiver of No waiver of any of the provisions of this Agreement shall be deemed a waiver of any other provision, whether or not similar, nor shall any waiver constitute a continuing waiver.

This Agreement shall be governed and controlled as to interpretation, enforcement, validity, construction, effect and in all other respects by the laws, statutes and decisions of the State of Ohio. Exclusive jurisdiction and venue for any litigation at all related to this Agreement, directly or indirectly, based upon contract, tort, or other theory of law, shall lie in the Franklin County Court of Common Pleas, Columbus, Ohio, and the parties hereto consent and submit to the general jurisdiction of this court. All of the terms and provisions of this Agreement shall be binding upon and inure to the benefit of and be enforceable by Sutphen, Purchaser, their successors and assigns.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be duly executed and attested by its duly authorized representatives, effective as of the date below when accepted at Sutphen Corporations offices.

SUTPHEN CORPORATION	PURCHASER Brook Park Fire Department THE
Sales Representative	Ву
Accepted at office	Title
SUTPHEN CORPORATION 6450 Eiterman Road Dublin, Ohio 43016	Date
Ву	Ву
Title	Title
Date	Date
	•

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WIRING SCHEMATIC

Wiring diagrams of the apparatus shall be provided on a USB flash drive at the time of delivery.

PRE-CONSTRUCTION CONFERENCE

After award of the contract, and prior to construction of the apparatus, a pre-construction conference shall be held at the facility of the manufacturer.

INSPECTION TRIPS

An inspection trip shall be provided at the manufacturer's facility, prior to delivery of the completed apparatus. Bidder shall specify the number of personnel included.

SUTPHEN MONARCH CUSTOM CHASSIS

A Sutphen Monarch Severe Duty Cab and Chassis system shall be provided. The chassis shall be manufactured in the factory of the bidder. The chassis shall be designed and manufactured for heavy duty service with adequate strength and capacity of all components for the intended load to be sustained and the type of service required. The cab and chassis system, shall be considered the bidders "Top of the Line". There shall be no divided responsibility in the production of the apparatus.

DOUBLE FRAME RAILS

The chassis frame shall be of a ladder type design utilizing industry accepted engineering best practices. The frame shall be specifically designed for fire apparatus use.

Each frame rail shall be constructed of two .375" thick-formed channels. The outer channel shall be 10.188" \times 3.50" \times 3.75" and the inner channel (liner) shall be 9.31" \times 3.13" \times .375".

Over the entire length of the frame rail, the section modulus shall be 31.8 in.³. The resistance to bending moment (RBM) shall be 1,590,000 in./lbs.

The cross-members shall be constructed of minimum .375" formed channels and have formed gusseted ends at the frame rail attachment. Single axle rear suspensions will utilize 3 piece bolt assembled cross-members at each suspension hanger.

Each rail is media blasted to remove scale, oil, and contaminants. This blasting also ensures paint adhesion. Each rail will be primed with Cathacoat 302HB, a high performance, two component, reinforced inorganic zinc-rich primer with proven cathodic protection of steel structures, prior to assembly.

.625 inch, grade 8 flange, Huck bolt fasteners shall be used on all permanently attached brackets to the frame to eliminate the need for bolt re-tightening.

A lifetime warranty shall be provided, per manufacturer's written statement.

FRONT BUMPER CLIP

The front clip of the subframe shall be designed with a built-in skid plate to protect the engine and chassis components. The front clip shall be painted the same color as the frame.

FRONT TOW EYES, BELOW BUMPER

There shall be two front tow eyes with 3" diameter holes attached directly to the chassis frame, accessible below the front bumper.

REAR TOW EYES

There shall be two tow eyes attached directly to the chassis subframe and shall be chromate acid etched for superior corrosion resistance and painted to match the chassis.

STEERING

The steering system shall be a TRW wheel to wheel steering system that is tested and certified by TRW, consisting of a heavy duty TRW/Ross Model TAS-85 power steering gear, TRW PS36 steering pump, miter box, drag links, and a thermostatic controlled fan cooled system (set point 185 deg. F to 170 deg. F). The steering gear shall be bolted to the frame at the cross-member for steering linkage rigidity. Four (4) turns from lock to lock with an 18" diameter slip resistant rubber covered steering wheel. Steering column shall have six-position tilt and 2" telescopic adjustment. The cramp angle shall be 45 degrees with 315mm tires or 43 degrees with 425mm tires providing very tight turning ability.

DRIVE LINE

A Spicer 1810 series driveline shall be provided with Meritor dual grease I grease fitting universal joints with "half-round" end yokes. The drive shaft shall be built with a heavy-duty steel tube 4.095" outside diameter x .180 wall thickness. The shafts shall be dynamically balanced prior to installation into the chassis. A splined slip joint shall be provided in each shaft assembly. Universal joints shall be extended life. There shall be two (2) Zerk fittings in each universal joint assembly so the joint can be greased without turning the shaft.

The apparatus shall be powered by a Cummins Diesel X 10 450 HP and up to 1,650 ft. lb. torque @ 1800 **ENGINE** R.P.M.

AIR COMPRESSOR

The air compressor shall be an 18.7 CFM engine driven Wabco.

A 12-volt starter shall be provided, controlled by a switch on the left lower cab dash.

The engine exhaust system shall be horizontal design constructed from heavy-duty truck components. **EXHAUST SYSTEM**

The engine exhaust system shall include the following components:

Stainless Steel Flexible Bellows mounted at the turbo outlet. Stainless steel piping to the Aftertreatment. STAINLESS STEEL TUBING Unit. Stainless steel piping from the Aftertreatment Unit to the stainless steel heat diffuser outlet.

The single canister Aftertreatment Unit is a self-contained exhaust treatment system which includes: AFTERTREATMENT UNIT

DPF (diesel particulate filter)

DEF Injector/Reactor

SCR (selective catalytic reducer)

The DEF injector/reactor utilizes the DEF fluid, which consists of urea and purified water, to convert NOx into nitrogen and water. This will meet or exceed 2027 EPA emissions requirements. A heated aftertreatment system shall be provided that is powered from a belt-driven 48V alternator on the engine.

The Stainless Steel Flexible Bellows shall be used to isolate the exhaust system from engine vibrations. The single canister Aftertreatment Unit shall be mounted under the right side frame rail, meeting the specific engine manufacturer's specifications and current emission level requirements. The heat diffuser outlet shall be directed to the forward side of the rear wheels, exiting the right side with a heavy duty heat diffuser. The heat diffuser shall prevent the exhaust temperature from exceeding 851 deg. F during a regeneration cycle.

Heat-absorbing, removable, insulated jackets shall be provided on the exhaust system from the turbo outlet in the engine compartment to the Aftertreatment Unit. The jackets will cover all piping, including the bellows, between the engine and the Aftertreatment Unit per engine manufacturers requirements insuring INSULATED JACKETS that the exhaust stream temperature remains elevated to ensure functionality with the Aftertreatment Unit. Additionally, the insulated jackets will protect the engine componentry from excessive heat generated by the exhaust.

The engine shall be equipped with an on-board diagnostic (OBD) system which shall monitor emissionsrelated engine systems and components and alert the operator of any malfunctions. The OBD system is ON-BOARD DIAGNOSTIC (OBD) SYSTEM designed to further enhance the engine and operating system by providing early detection of emission. related faults. The engine control unit (ECU) will manage smart sensors located throughout the engine and after-treatment system. The system shall monitor component verification and sensor operation. There shall be warning lights located in the dash instrument panel to alert the operator of a malfunction. A data port shall be provided under the driver's side dash for the purpose of code reading and troubleshooting. All communication shall be provided through the J1939 data link.

The engine shall have a five (5) year or 100,000 mile warranty and approval by Cummins Diesel for Full Engine Coverage Plan (RVF) — which is their most complete engine coverage plan, which includes EGR components installation in the chassis. There shall be no deductible for the first two years. A one hundred ENGINE WARRANTY dollar deductible shall apply for service beginning the third year.

The engine shall have a five (5) year or 100,000 mile aftertreatment coverage warranty, which covers failures AFTERTREATMENT WARRANTY of the Aftertreatment Assembly which result, under normal use and service, from a defect in Cummins material or factory workmanship.

The engine air intake and filter shall be designed in accordance with the engine manufacturer's AIR CLEANER/INTAKE recommendations. It shall be 99.9% effective in removing airborne contaminants when tested per the industry standard SAE J726 procedure and offer a dirt holding capacity of at least 3.0 gm/cfm of fine dust (tested per SAE 1726) offering superior engine protection.

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.

An ember separator shall be provided in the engine air intake meeting, the requirements of NFPA 1901.

An Air Restriction warning light shall be provided and located on the cab dash.

A Cummins approved Fleetguard Fuel Pro FH230 fuel filter/water separator shall be remote mounted to the PRIMARY FUEL FILTER/WATER SEPARATOR chassis frame rail.

A Cummins approved Fleetguard FF825NN fuel filter will be mounted on the driver's side of the engine. SECONDARY FUEL FILTER

The chassis shall be equipped with a Generation 6 Allison EVS4000 six (6) speed automatic transmission. It shall be programmed five (5) speed, sixth gear locked out, for fire apparatus vocation, in concert with the TRANSMISSION

The transmission is communicated on the J-1939 through the communication port. The fifth gear shall be an overdrive ratio, permitting the vehicle to reach its top speed at the engine's governed speed. The dipstick is specified engine. dipped in a rubber coating for ease in checking oil level when hot.

The chassis to transmission wiring harness shall utilize Metri-Pack 280 connectors with triple lip silicone seals and clip-type positive seal connections to protect electrical connections from contamination without the use of coatings.

Ratings: Max Input (HP) 600 Max Input (Torque) 1850 (lb ft) Max Turbine (Torque) 2600 (lb ft)

Mechanical Ratios: 1st - 3.51:1

2nd - 1.91:1

3rd - 1.43:1

4th - 1.00:1

5th - 0.74:1

Reverse - -5,00:1

The transmission shall come filled with an Allison approved Synthetic Transmission Fluid that meets the TRANSMISSION FLUID Allison TES-295 specification.

The engine shall be equipped with a Jacobs compression engine brake. An "On/Off" switch and a control for **ENGINE BRAKE** "Low/High" shall be provided on the instrument panel within easy reach of the driver.

The engine brake shall interface with the Wabco ABS brake controller to prevent engine brake operations

A pump shift interlock circuit shall be provided to prevent the engine brake from activating during pumping during adverse braking conditions.

operations. The brake light shall activate when the engine brake is engaged.

The apparatus transmission shall be equipped with a Liquid-To-Liquid remote mounted cooler with aluminum internal components. The cooler shall be encased in an aluminum housing and mounted to the TRANSMISSION COOLER outside of the officer's side frame rail for accessibility and ease of service.

An Allison "Touch Pad" shift selector shall be mounted to the right of the driver on the engine cover TRANSMISSION SHIFTER accessible to the driver. The shift position indicator shall be indirectly lit for nighttime operation.

The cooling system shall be designed to keep the engine properly cooled under all conditions of road and pumping operations. The cooling system shall be designed and tested to meet or exceed the engine and **COOLING SYSTEM** transmission manufacturer's requirements, and EPA regulations.

The complete cooling system shall be mounted in a manner to isolate the system from vibration and stress. The individual cores shall be mounted in a manner to allow expansion and contraction at various rates without inducing stress to the adjoining core(s).

The cooling system shall be comprised of a charge air cooler to radiator serial flow package that provides the maximum cooling capacity for the specified engine as well as serviceability. The main components shall include a surge tank, a charge air cooler, bolted to the top of the radiator to maximize cooling, recirculation shields, a shroud, a fan, and required tubing. All components shall consist of an individually sealed system.

The radiator shall be a cross-flow design constructed completely of aluminum with welded side tanks. The radiator shall be bolted to the bottom of the charge air cooler to allow a single depth core, thus allowing a RADIATOR

The radiator shall be equipped with a drain cock to drain the coolant for serviceability. The drain cock shall more efficient and serviceable cooling system. be located at the lowest point of the aluminum cooling system to maximize draining of the system.

The charge air cooler shall be of a cross-flow design and constructed completely of aluminum with extruded CHARGE AIR COOLER tanks. The charge air cooler shall be bolted to the top of the radiator to allow a single depth core.

COOLANT

The cooling system shall be filled with a 50/50 mix. The coolant makeup shall contain ethylene glycol and deionized water to prevent the coolant from freezing to a temperature of –34 degrees F.

HOSES & CLAMPS

All radiator hose clamps shall be spring loaded stainless steel constant torque hose clamps for all main hose Silicone hoses shall be provided for all engine coolant lines. An radiator mose clamps shan we spring roaded standards shall be installed where required to prevent heated air connections to prevent leaks. Recirculation shields shall be installed where required to prevent heated air from reentering the cooling package and affecting performance.

FAN

The engine cooling system shall incorporate a heavy-duty composite 11- blade Z-series fan. It shall provide the highest cooling efficiently while producing the lowest amount of noise. This robust yet light-weight fan

A shroud and recirculation shield system shall be used to ensure air that has passed through the radiator is results in less wear and stress on motors and bearings.

The fan tip to radiator core clearance shall be kept at a minimal distance to increase the efficiency of the fan not drawn through again.

and reduce fan blast noise.

A fan clutch shall be provided that shall allow the cooling fan to operate only when needed. The fan shall remain continuously activated when the truck is placed in pump gear. FAN CLUTCH

The cooling system shall be equipped with an aluminum surge tank mounted to the officer's side of the the cooling system core. The surge tank shall house a low coolant probe and sight glass to monitor the coolant cooling system core. The surge tank shall house a low coolant prope and sight glass to monitor the coolant level. Low coolant shall be alarmed with the check engine light. The surge tank shall be equipped with a dual level. Low coolant shall be alarmed with the check engine light. rever, LOW COORDINGTON DE GIGITIEU WIGHT OF CHECK ENGINE TIETS THE SUITE CANK SHALL DE EQUIPPEU WIGH & C. Seal cap that meets the engine manufacturer's pressure requirements, and system design requirements. SURGE TANK

The tank shall allow for expansion and to remove entrained air from the system. There shall also be an extended fill neck to prevent system overfill and encroachment of expansion air space. Baffling shall be Installed in the tank to prevent agitated coolant from being drawn into the engine cooling system.

The chassis shall be equipped with a 65-gallon stainless steel rectangular fuel tank. The fuel tank shall be certified to meet FMVSS 393.67 tests. It shall also maintain engine manufacturer's recommended expansion **FUEL TANK** room of 5%.

The tank shall be removable by means of six (6) bolted connections and dropped. One (1) tank baffle shall be

Dual pick-up and return ports with a single 3/4" tank drawtube shall be provided for diesel generators if required.

The fuel lines shall be nylon braid reinforced fuel hose with brass fittings. The lines shall be carefully routed along the inside of the frame rails. All fuel lines are covered in high temperature rated split plastic loom. Single suction and return fuel lines shall be provided.

The fuel tank shall be mounted in a saddle with a barrier between the tank and the saddle. The bottom of the fuel tank shall contain a 1/2" drain plug.

The fuel tank shall be equipped with a 2-1/4" filler neck assembly with a 3/4" vent located on the driver's FUEL FILL side of the truck. A fuel fill cap attached with a lanyard shall be provided.

Installed on the apparatus fuel system shall be an Air-To-Liquid aluminum fuel cooler. The fuel cooler shall be **FUEL COOLER** located in the lowest module of the cooling system.

The exhaust system shall include a molded cross linked polyethylene tank. The tank shall have a capacity of DIESEL EXHAUST FLUID TANK 5 usable gallons and shall be mounted on the left side of the chassis frame.

The DEF tank fill neck shall accept only a 19mm dispensing nozzle versus the standard 22mm diesel fuel dispensing nozzle to prevent cross contamination. The DEF tank cap shall be blue in color to further prevent cross contamination.

A placard shall accompany fill location noting DEF specifications.

The exhaust shall terminate to accept a station mounted PlymoVent® exhaust system. EXHAUST ADAPTER

A 420 ampere Prestolite/Leece Neville alternator with serpentine belt shall be provided. The alternator ALTERNATOR shall generate 260 amperes at idle.

A Floyd Bell TXB-V86-515-QF low voltage alarm, audible and visual, shall be provided. LOW VOLTAGE ALARM

The battery system shall be a single system consisting of four (4) negative ground, 12 volt Interstate Group 31 MHD batteries, cranking performance of 950 CCA each with total of 3800 amps, 185 minute reserve capacity with 25 ampere draw at 80 degrees Fahrenheit. Each battery shall have 114 plates. The batteries **BATTERIES** shall include a one-year warranty which shall be accepted nationwide.

The batteries shall be installed in a vented 304 stainless steel battery box with a removable aluminum cover to protect the batteries from road dirt and moisture. The battery cover shall be secured with four "T" handle rubber hold downs to provide easy access for maintenance and inspection. Stainless steel hardware will be used for installation. The batteries are to be placed on dri-deck and secured with a fiberglass hold down. The batteries shall be wired directly to starter motor and alternator.

The battery cables shall be 3/0 gauge. Battery cable terminals shall be soldering dipped, color-coded and labeled on heat shrink tubing with a color-coded rubber boot protecting the terminals from corrosion.

There shall be a 350-ampere fuse protecting the pump primer and a 250-ampere fuse protecting the electric cab tilt pump and other options as required.

BATTERY JUMPER TERMINAL

There shall be one set (two studs) of battery jumper terminals located by the battery box under the cab. The terminals shall have plastic color-coded covers. Each terminal shall be tagged to indicate positive/negative.

BATTERY CHARGER / INVERTER

A Kussmaul Auto Power 1500W 55 amp inverter charger shall be provided and installed in the cab. The unit shall include a built-in high output 3 stage charger (1-hr boost) for rapid battery replenishmentprogrammable for various battery types; Gel, Lead Acid, or AGM battery. The charger shall be wired to the 120V shoreline inlet.

120V SHORELINE INLET & AUTO EJECT

The apparatus shall be equipped with a 120V shoreline inlet to provide power to the battery charger from an external source. The inlet shall include a Kussmaul 091-55-234-XXX Super 20 Auto Eject featuring a built in bar graph display on the cover. Also featuring a 12 volt solenoid which shall eject the shoreline cord away from vehicle path upon sensing engine start. After ejection, a weatherproof cover shall snap into position

A 20 amp connector shall be provided and shipped loose for connecting the external shoreline cord to the inlet.

6 120-VOLT OUTLET WIRED TO SHORELINE INLET

Six (6) 120-volt outlet shall be provided and wired to the shoreline inlet. The location of the outlet shall be determined during the pre-construction conference.

FRONT AXLE

A Hendrickson STEERTEK NXT non-driving, front steer axle with a capacity of 20,000 pound shall be provided. The axle shall have a 3.74" drop and will have a fabricated boxed shaped cross section, a one piece knuckle, and serviceable king pin. Adjustable Ackerman settings shall be available, and determine based on wheelbase. The axle shall have 10 bolt hub piloted, and furnished with oil seals.

SUSPENSION (FRONT)

The front suspension shall be a parabolic taper-leaf spring design, 56" long and 4" wide. Long life, maintenance free, threaded pin bushings in spring shackles shall be utilized. All spring and suspension The rear brakes shall be Meritor S-cam style. They shall be 16.5" x 7" with heavy-duty return springs, and a double anchor pin design. They shall also have quick-change shoes for fast easy brake relining.

AIR BRAKE SYSTEM

The vehicle shall be equipped with air-operated brakes. The system shall meet or exceed the design and performance requirements of current FMVSS-121 and test requirements of current NFPA 1901 standards.

Each wheel shall have a separate brake chamber. A dual treadle valve shall split the braking power between the front and rear systems.

All main brake lines shall be color-coded nylon type protected in high temperature rated split plastic loom. The brake hoses from frame to axle shall have spring guards on both ends to prevent wear and crimping as they move with the suspension. All fittings for brake system plumbing shall be brass.

A Meritor Wabco System Saver 1200 air dryer shall be provided.

The air system shall be provided with a rapid build-up feature, designed to meet current NFPA 1901 requirements. The system shall be designed so the vehicle can be moved within 60 seconds of startup. The quick build up system shall provide sufficient air pressure so that the apparatus has no brake drag and is able to stop under the intended operating conditions following the 60-second buildup time. The vehicle shall not be required to have a separate on-board electrical air compressor or shoreline hookup to meet this

Five (5) supply tanks shall be provided. One air reservoir shall serve as a wet tank and a minimum of one tank requirement. shall be supplied for each the front and rear axles. A Schrader fill valve shall be mounted in the front of the

A spring actuated air release emergency/parking brake shall be provided on the rear axle. One (1) parking driver's step well. brake control shall be provided and located on the engine hood next to the transmission shifter within easy reach of the driver. The parking brake shall automatically apply at 35 ± 10 PSI reservoir pressure. A Meritor WABCO IR-2 Inversion Relay Valve, supplied by both the Primary and Secondary air systems, shall be used to activate the parking brake and to provide parking brake modulation in the event of a primary air system

Accessories plumbed from the air system shall go through a pressure protection valve and to a manifold so failure. that if accessories fail they shall not interfere with the air brake system.

<u>AIR BRAKE SYSTEM RELEASE VALVE</u>

The vehicle shall be equipped with air-operated WABCO air brake release valve located in the cab within an accessible reach to the driver.

An air system inlet/fill connection shall be provided. The inlet shall be connected to the air brake to allow AIR INLET constant air feed. The location of the inlet shall be on the left hand side of the driver's step well.

AUTO-EJECT

A Kussmaul Model 091–28 auto-eject with female coupling shall be provided.

A Wabco ABS system shall be provided to improve vehicle stability and control by reducing wheel lock-up AIR BRAKING ABS SYSTEM during braking. This braking system shall be fitted to axles and all electrical connections shall be environmentally sealed from water and weather and be vibration resistant.

The system shall constantly monitor wheel behavior during braking. Sensors on each wheel transmit wheel speed data to an electronic processor, which shall sense approaching wheel lock and instantly modulate brake pressure up to 5 times per second to prevent wheel lock-up. Each wheel shall be individually controlled. To improve field performance, the system shall be equipped with a dual circuit design. The system circuits shall be configured in a diagonal pattern. Should a malfunction occur, that circuit shall revert to normal braking action. A warning light at the driver's instrument panel shall indicate malfunction to the operator.

The system shall consist of a sensor clip, sensor, electronic control unit and solenoid control valve. The sensor clip shall hold the sensor in close proximity to the tooth wheel. An inductive sensor consisting of a permanent magnet with a round pole pin and coil shall produce an alternating current with a frequency proportional to wheel speed. The unit shall be sealed, corrosion-resistant and protected from electromagnetic interference. The electronic control unit shall monitor the speed of each wheel sensor and a microcomputer shall evaluate wheel slip in milliseconds.

COMPRESSION FITTINGS ON AIR SYSTEM

All air line fittings installed on the chassis shall be compression style fittings. The following locations shall utilize push-on fittings:

Pressure protection valve (accessory block)

- Double check valve (braking system, park brake)
- One way check valve (brake valve tank)
- Elbow Male Modified 1/4" tube x 1/4" MP (low air switch)
- Elbow Male 1/4" tube x 3/8"MP (brake pedal solenoid)
- Switch stoplight (Wabco sealed switch/brake light and service brake switch) • Connector 1/4" x 3/8"MPT (brake pedal solenoid)
- Low pressure switch (PTC) (Wabco sealed switch/low air switch)

MISCELLANEOUS CHASSIS EQUIPMENT

Fluid capacity plate affixed below driver's seat.

Chassis filter part number plate affixed below driver's seat.

Maximum rated tire speed plaque near driver.

Tire pressure label near each wheel location.

. Cab occupancy capacity label affixed next to transmission shifter.

Do not wear helmet while riding plaque for each seating position.

NFPA compliant seat belt and standing warning plates provided.

The cab shall be a full tilt 8-person 15" rear raised roof cab designed specifically for the fire service and manufactured by the chassis builder. Apparatus cabs that are not manufactured by the apparatus ALUMINUM CAB manufacturer shall not be acceptable.

The apparatus chassis shall be of an engine forward, fully enclosed tilt cab design. There shall be four (4) side CAB DESIGN

The cab shall be of a fully open design with no divider wall or window separating the front and rear cab entry doors.

sections. The cab shall be designed in a manner that allows for the optimum forward facing vision for crew.

Cab designs that utilize roof mounted air conditioning units, are not desired.

The cab shall be constructed of high strength 5052H32 aluminum plate welded to 6061-T6 extruded

The cab roof shall utilize 5" x 5" honeycomb re-enforced 6061 T6 aluminum extrusion, with fully radiused outer corner rails with integral drip channel and $6061 \text{ T6} \frac{3}{4}$ " x 2" x 3/16" aluminum box tubing type cross brace supports. Structures that do not include an integral drip channel will not be accepted. The box tubing aluminum framing.

type cross brace supports shall be installed in a curved fashion beginning from the midline of the apparatus cab and curving toward the exterior corner rails. This curvature will allow for increased strength in the event of a roll over while not allowing for rainwater buildup on the apparatus cab roof.

The cab sides shall be constructed from 1 % ' x 3" x 3/16" 6061 T6 extruded door pillars and posts that provide a finished door opening, extruded and formed wheel well openings supports, formed aluminum

The cab floor and rear cab wall shall utilize $1\frac{3}{4}$ " x 4" x 3/16" 6061 T6 extruded box tubing type framing and wheel well liners and box tubing type support braces. support bracing.

The framework shall be of a welded construction that fully unitizes the structural frame of the cab.

The structural extrusion framework shall be overlaid with interlocked aluminum alloy sheet metal panels to form the exterior skin of the cab. The cab sides shall be constructed of 3/16" thick 5052H32 aluminum plate that slides into an integral channel of the extrusion framework. The plate is then skip welded into that channel to allow for tolerable flex while the apparatus travels down the roadway. Cab designs that utilize 1/8" thick aluminum for the cab sides shall not be acceptable.

The structural extrusion framework shall support and distribute the forces and stresses imposed by the chassis and cab loads and shall not rely on the sheet metal skin for any structural integrity.

The cab face extrusion framework shall be overlaid with 1/8" thick 5052H32 aluminum plate to allow for an aesthetically pleasing radiused cab face.

The cab shall be mounted to a $4'' \times 4'' \times 3/8''$ steel box tube sub-frame, and shall be isolated from the chassis, through the use of no less than six (6) elastomeric bushings. This substructure shall be completely CAB SUB-FRAME independent of the apparatus cab. The sub frame shall be painted to match the primary chassis color.

The sub-frame shall be mounted to the chassis through the use of lubricated Kaiser Bushings for the front. pivot point, and two (2) hydraulically activated cab latches, to secure the rear.

Cab mounting that does not include a sub-frame shall not be considered. NO EXCEPTIONS.

The cab shall be designed to satisfy the following minimum width and length dimensions: CAB DIMENSIONS

Cab Width (excluding mirrors) 98"

Cab Length (from C/L of front axle) To front of cab (excluding bumper) 70" To rear of cab 73" Total Cab Length (excluding bumper) 143"

The cab shall be of a one-half 15" raised roof design with side drip rails and shall satisfy the following minimum height dimensions:

Cab Dimensions Interior Front 59" Rear 74"

Cab Dimensions Exterior Front 65" Rear 80"

FENDER CROWNS

Polished stainless steel front axle fenderettes with full depth radiused wheel well liners shall be provided.

The exterior walls, doors, and ceiling of the cab shall be insulated from the heat and cold, and to further reduce noise levels inside the cab. The cab interior sound levels shall not exceed 80 decibels at 45 mph in all cab seat positions. NO EXCEPTIONS

The cab windshield shall be of a two piece curved design utilizing tinted, laminated, automotive approved safety glass. The window shall be held in place by an extruded rubber molding. The cab shall be finished painted prior to the window installation.

SUN VISORS

The sun visors shall be made of dark smoke colored transparent polycarbonate. There shall be a visor located at both the driver and officer positions, recessed in a molded form for a flush finish.

The cab of the apparatus shall be designed and so attached to the vehicle as to eliminate, to the greatest CAB STRUCTURAL INTEGRITY possible extent, the risk of injury to the occupants in the event of an accident.

The apparatus cab shall be tested to specific load and impact tests with regard to the protection of

A test shall be conducted to evaluate the frontal impact strength of the apparatus cab to conform to the test occupants of a commercial vehicle. J2420 and the "United Nations Regulation 29, Annex 3, paragraph 4, (Test A). A second test shall be conducted to evaluate the roof strength of the apparatus cab to conform to the Society Of Automotive Engineers (SAE) SAE J2422/SAE J2420 and "United Nations Regulation 29, Annex 3, paragraph 5, (Test B) and SAE J2420. The evaluation shall consist of the requirements imposed by ECE Regulation 29, Paragraph 5.

The test shall be conducted by a certified independent third party testing institution.

A letter stating successful completion of the above test on the brand of cab being supplied shall be included in the bid. There shall be "no exception" to this requirement.

The seat belt anchorage system shall be tested to meet FMVSS 207 Section 4.2a and FMVSS 210 section 4.2. SEAT BELT TESTING Testing shall be conducted by an independent third party product evaluation company.

A copy of the certification letter shall be supplied with the bid documents.

Cab lockdown latches shall be provided to prevent the cab from being tilted in the down position. Once the CAB LOCKDOWN LATCHES cab tilt switch is engaged the cab latches will release to allow the cab to be tilted.

An electrically powered hydraulic cab tilt system shall be provided and shall lift the cab to an angle of 45 degrees, exposing the engine and accessories for fluid checks and service work. The system shall be CAB TILT SYSTEM interlocked to only operate when the parking brake is set.

The lift system shall be comprised of two (2) hydraulic lift cylinders, an electrically driven hydraulic pump, and a control switch. The hydraulic pump shall be located on the exterior of the frame rail on the driver's side of the chassis that can be easily accessible when the cab is tilted. A mechanical locking system consisting of an air operated actuator and a heavy radiused wall 3" x 3" aluminum extrusion will be provided to ensure the cab remains in the raised position in the event of a hydraulic failure. Additionally, each of the hydraulic lift cylinders shall incorporate a check valve, and velocity fuses that will activate should a sudden drop in pressure be detected. The cab tilt controls shall be interlocked to the parking brake to ensure the cab will not move, unless the parking brake is set. The cab tilt controls will consist of a momentary raise/lower switch and a two position cab safety lock switch.

The hydraulic lift cylinders will be connected to a steel cab sub-frame, and not directly to the cab. NO **EXCEPTIONS**

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There shall be a manually operated hydraulic pump for tilting the cab in case the main pump should fail. Access to the pump shall be located under the left corner of the front bumper.

The cab doorframes shall be constructed from 6061 T6 aluminum extrusions fitted with a 5052 H32 aluminum sheet metal skin and shall be equipped with dual weather seals. The outside cab door window opening shall be framed by a black anodized aluminum trim, to provide a clean appearance. The cab doors shall be equipped with heavy-duty door latching hardware, which complies with FMVSS 206. The door latch mechanism shall utilize control cable linkage for positive operation. A rubber coated nylon web doorstop

The doors shall be lap type with a 10 gauge full-length stainless steel flange and 3/8" diameter hinge pin and shall be fully adjustable.

All openings in the cab shall be grommeted or equipped with rubber boots to seal the cab from extraneous

The cab doors shall be designed to satisfy the following minimum opening and step area dimensions: noise and moisture. Door Opening:

Front

.36.5" x 73"

Rear

36.5" x 73"

CAB STEPS

The lower cab steps shall be no more than 22" from the ground. Grip strut material shall be installed on the stepping surface.

An intermediate step shall be provided, mid way between the lower cab step, and the cab floor. The intermediate step shall be slightly inset to provide for safer ingress and egress. Diamondplate material shall

All steps shall be covered with material that meets or exceeds the NFPA requirements for stepping surfaces. be installed on the stepping surface.

There shall be one additional step under each cab door to assist with entrance and exit of the cab. The steps **AUXILIARY CAB STEPS** shall be constructed of aluminum with a grip strut stepping surface.

A white TecNiq E45 LED strip light shall illuminate each interior cab step. These lights shall illuminate STEP LIGHTS whenever the battery switch is on and the cab door is opened.

All four cab entry doors shall have power windows. Each door shall be individually operated and the driver's POWER WINDOWS position shall have master control over all windows. All four windows shall roll down completely.

Fixed position side window shall be provided on each side of the cab between the forward cab area and the crew cab area. The widows shall be approximately 20.5" high x 16.50" wide to provide maximum visibility. SIDE WINDOWS The side windows shall be held in place by an extruded rubber molding with a chrome plated decorative locking bead.

The crew cab windows and doors, with the exception of the driver's and officer's doors, and the windshield, shall be tinted with deep "limo" tint. The tint shall be incorporated into the window glass with eight percent WINDOW TINTING (8%) light transmittance. Film tinting shall not be acceptable.

Two (2) black anodized finish two speed electric windshield wiper system. Dual motors with positive parking. WINDSHIELD WIPERS System includes large dual arm wipers with built in washer system. One (1) master control works the wiper, washer and intermittent wipe features. Washer bottle is a remote fill with a 4 quart capacity. Washer fill is located just inside of officer cab door.

A four quart capacity windshield washer reservoir shall be provided. The fill access shall be located in the WINDSHIELD WASHER RESERVOIR forward officer's step well area.

Two (2) Lang Mekra 300 Series smooth chrome plated Aero style main and convex mirrors shall be installed on each side of the vehicle. The main mirror shall be 4-way remote adjustable with heat, 7" x 16" 2nd surface MIRRORS chromed flat glass. The convex shall be 6" x 8" 2nd surface chromed 400 mm radius glass. Each mirror housing assembly shall be constructed of lightweight textured chrome ABS with on truck glass and housing back cover replacement. In the event the mirror breaks the glass shall be replaceable in (3) minutes or less. The glass shall include a safety adhesive backing to keep broken glass in place. The mirror assembly shall be supported by a "C" loop bracket constructed of polished stainless steel tube utilizing two point mounting reducing vibration of mirror glass during normal vehicle operation. The lower section of the holder shall include a spring loaded single detent position 20 degrees forward with easy return to operating position without refocusing.

The front of the cab shall be equipped with a raised polished stainless steel grille that is laser cut to resemble an American flag with sufficient area cut out to allow proper airflow into the cooling system and engine UPPER GRILLE compartment. Plastic chrome plated grilles shall not be acceptable.

The upper grille shall have a laser cut flaming "S" logo in the upper portion of the grille. The cut out shall be illuminated by LED lights.

LOWER GRILLE

The front of the cab shall be equipped with a polished stainless steel lower grille with custom laser engraved design per customer specifications. The lower grille shall also be backlit with LEDs. Color shall be specified by customer. The design shall allow proper airflow into the cooling system and engine compartment. Plastic chrome plated lower grille shall not be acceptable.

There shall be a 12" high painted formed steel wrap-around (45 degree) bumper provided at the front of the PAINTED STEEL BUMPER apparatus. The bumper shall be mounted to a reinforcement plate constructed of 1/4" x 12" x 70" carbon steel. The frame rail extension shall be a reinforced four-sided boxed frame rail for superior safety protection. A gravel shield shall be provided, constructed of .188" aluminum diamond plate. The bumper extension shall be approximately 24".

The sides of the bumper shall also be painted steel in lieu of diamond plate. Each side shall feature a recessed painted steel pocket for the marker light and any auxiliary lighting option selected. The pocket shall **BUIVIPER SIDES** be a welded integral part of the bumper skin.

The angled sides of the bumper shall feature a recessed painted steel pocket for any auxiliary lighting option BUMPER ANGLE SIDES selected. The pocket shall be a welded integral part of the bumper skin.

The bumper shall be notched to accommodate the pipe for the front suction.

There shall be a hose well compartment located in the center of the front bumper. The compartment shall STORAGE WELL COMPARTMENT run 3/4 the length of the bumper and measure approximately 60" long x 16" wide x 6" deep at the ends and 12" deep in the center. The compartment shall be constructed of .125" smooth aluminum plate.

There shall be a 1/8" diamond plate cover with latches provided for the front bumper trough. The cover shall DIAMOND PLATE BUMPER LID have a 4" rise to accommodate the storage well requirements.

The storage well cover lid shall be provided with a cut-out to accommodate the front discharge. Location to be determined at the preconstruction conference.

PROTECTIVE BUIMPER COATING

A Raptor texture coating shall be provided along the top edge of the front steel bumper. The color of the coating shall be determined at precon.

RECEIVER (Front)

A 2" receiver shall be provided and mounted directly to the apparatus chassis. The receiver shall be 2" x 2" heavy wall tube and solidly re-enforced. The receiver shall be rated with a maximum capacity of 5,000 lbs. The receiver shall be designed for a 2-1 straight pull capacity (10,000lbs).

WIRING

Sufficient power shall be provided at the receiver for the intent of powering a winch.

AIR HORNS

Two (2) Hadley H00978 rectangular, chrome plated, air horns shall be provided.

AIR HORN BUMPER CUT-OUTS

The air horns shall be installed behind perforations in the front bumper.

LANYARD CONTROL FOR AIR HORNS

The air horns shall be activated by a split "Y" lanyard in cab ceiling.

ELECTRONIC SIREN

One (1) Whelen 295HFSA7 electronic siren shall be installed at the cab instrument panel complete with noise canceling removable microphone. The remote control head shall be flush mounted in a location specified by the fire department.

The electronic siren shall be wired through the steering wheel button. A selector switch shall be provided on the instrument panel to switch between functions.

SIREN SPEAKERS

Two (2) Cast Products SA4201-5-A 100 watt weatherproof siren speakers shall be provided and wired to the electronic siren.

SPEAKER MOUNTING

The electronic siren speaker(s) shall be installed behind the main cab grille.

FEDERAL Q2B SIREN

There shall be a Federal Q2B-NN siren installed in the center of the cab grille. The siren shall be securely mounted and activated by means of a solenoid and shall include a brake.

FOOT SWITCH, DRIVER'S SIDE

A foot switch for the mechanical siren shall be provided on the driver's side.

FOOT SWITCH, OFFICER'S SIDE

A foot switch for the mechanical siren shall be provided on the officer's side.

SIREN BRAKE SWITCH

A brake switch for the mechanical siren shall be provided in the lower command console for both the driver's and officer's position.

CAB EXTERIOR LIGHTING

Exterior lighting and reflectors shall meet or exceed Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements.

The front low and high beam headlights shall be FIRETECH model FT-4X6 LED, rectangular shaped, quad style installed in custom rectangular shaped stainless steel housings on the front of the cab. Each housing shall **HEADLIGHTS** accommodate a forward-facing turn signal in the outboard location and a side-facing warning light.

An additional pair of rectangular shaped stainless steel housings shall be installed on the front of the cab above the headlight housings. Each housing shall accommodate two (2) forward-facing warning lights and a side-facing turn signal.

There shall be four (4) Whelen 400 Series Model 40A00AAR LED rectangular amber turn signal lights mounted one (1) each side in the front of the headlight housings and one (1) mounted on the side of each FRONT TURN SIGNALS warning light housing.

Five (5) ICC, LED marker lights shall be integrated in the brow light mounted on the front of the cab to meet ICC/MARKER LIGHTS D.O.T. requirements.

There shall be three (3) 24" long, handrails provided and installed, one at each front cab entrance, and one on the side opposite of tall exterior compartment. The handrails shall be constructed of type 304 stainless EXTERIOR CAB HANDRAILS steel 1.25 inch diameter tubing with bright finish and knurled gripping surface. Mounting flanges shall be constructed from 7 gauge, .180 thick, stainless sheet. Each grab rail shall have 90 degree returns to flanges. The ends of grab rail shall pass through the flanges and be welded to form one structural unit. The handrails shall be mounted using 1.25" SS Hex bolts, with a barrier rubber gasket at each flange.

Sufficient space shall allow for a gloved hand to firmly grip the rail.

There shall be a coat hook installed on the upper portion of the exterior cab handrail, on the driver's side, for COAT HOOKS FOR GRAB HANDLES hanging of coats, turnout gear, etc.

There shall be a coat hook installed on the upper portion of the two exterior cab handrails, on the officer's side, for hanging of coats, turnout gear, etc.

INTERIOR CAB HANDRAILS

There shall be two (2) rubber coated grab handles provided and mounted on the interior of the cab, one each side, on the windshield post for ingress assistance. The handrail on the driver's side shall be approximately 11" long and the handrail on the officer's side shall be approximately 18" long.

There shall be one (1) rubber coated grab handle provided and mounted on the interior of the rear-crew cab area for ingress assistance. This handrail shall be installed at the entry point that does not have an exterior handrail. The handrail shall be approximately 11" long.

There shall be two (2) rubber coated grab handles provided and mounted, one on the inside of each rear crew door, just below the windowsill. The handrails shall be approximately 11" long.

There shall also be two (2) 1.25" diameter knurled stainless steel handrails shall be provided and mounted, one on the inside of each rear crew door, just above the windowsill. The handrails shall be approximately 22" long.

A nylon strap shall be provided on the lower hinge of each interior cab door to assist with entry. INTERIOR DOOR STRAP

There shall be a cabinet constructed of .125 aluminum plate recessed in the cab behind driver's side rear DRIVER'S SIDE CAB COMPARTMENT crew door. The compartment shall be approximately 66" high x 15" wide x 22.25" deep.

The compartment shall have a hinged door that is hinged at the front. The doors shall have an Austin Hardware slam catch single-point "D"-ring door closure and held open with gas struts.

The compartment shall be operated by an individual switch and illuminated with (1) LED light.

There shall be a cabinet constructed of .125 aluminum plate recessed in the cab behind officer's side rear crew door. The compartment shall be approximately 38" high x 15" wide x 20.25" deep (12.75" deep if front OFFICER'S SIDE CAB COMPARTMENT

The compartment shall have a hinged door that is hinged at the front. The doors shall have an Austin Hardware slam catch single-point "D"-ring door closure and held open with gas struts. suction)

The compartment shall be operated by an individual switch and illuminated with (1) LED light.

The transverse compartment shall be provided with storage for up to two (2) pike poles mounted on the PIKE POLE STORAGE COMPARTMENT back wall. The pike pole compartment shall be approximately 7" wide x 10" high x 84" long.

There shall be an adjustable shelf provided and installed in the compartment. The shelf shall be fabricated There shall be an adjustable shell provided and instance in the comparament. The shell shall be rapricated of .188 aluminum plate and have two 1.5° x 1.5° x 1.88° aluminum angles welded to the underside of the ADJUSTABLE SHELF shelf for support.

A SCBA air pack bracket with strap shall be provided and installed in the lower section of the compartment. SCBA BRACKET

EXTERIOR CAB COMPARTMENT LIGHTING

The light color will tied into the switch in Overhead Console Position 2, marked day/night Each exterior cab compartment will have a red/white led light. CAB ROOF OVERLAY

The rear exterior section roof of the cab shall have a smooth aluminum overlay, painted to match the cab roof. The overlay shall be constructed of .125" aluminum measure 30" \times 91".

The metal surfaces of the cab interior shall be coated and sealed with MultiSpec black speckle, urethane modified, mar resistant paint. The textured coating shall provide paramount durability and wear resistance CAB INTERIOR against foreign objects and normal wear and tear.

The front and rear headliners, as well as the rear cab wall, shall be finished in Gray-Black Durawear covered padded panels.

The interior of the cab entry doors shall have a 304 brushed stainless steel scuff plate, contoured to the INTERIOR DOOR PANELS door, from the door window sill down.

The cab interior floor shall be covered with a 5/16" thick, black rubberized material to provide a rugged but CAB FLOOR COVERING cosmetically pleasing stepping surface throughout the cab. The floor covering shall provide superior durability and resistance against foreign objects as well as normal wear and tear.

DIAMOND PLATE, CAB FLOOR

The cab floor shall be covered with 1/8" embossed diamondplate.

An integral, formed aluminum and composite engine enclosure shall be provided. The engine enclosure shall ENGINE ENCLOSURE be contoured and blended in an aesthetically pleasing manner with the interior dash and flooring of the cab. The enclosure shall be kept as low as possible, to maximize space and increase crew comfort.

The enclosure shall be constructed from 5052 H2 aluminum plate and GRP composite materials, providing high strength, low weight, and superior heat and sound deadening qualities.

Additionally, the underside of the engine enclosure shall be coated in with a ceramic spray on insulation and sound control. This coating is an environmentally-friendly coating that is applied seamlessly and rapidly while providing superior thermal insulation and protection against vibration and noise, and will prevent future corrosion from forming by sealing the substrate. NO EXCEPTIONS

The top of the engine enclosure shall be covered with Scorpion heavy duty, black polyurethane blended ENGINE ENCLOSURE COVERING coating. The textured coating shall provide paramount durability and wear resistance against foreign objects and normal wear and tear as well as sound deadening and insulation. The rubberized cab floor covering shall extend up the lower exterior sides of the engine enclosure to aid in sound deadening and heat resistance.

There shall be a 3/16" smooth aluminum plate installed on the engine enclosure between the driver and the officer for use in mounting of equipment. The mounting plate shall feature beveled edges on the front and TOOL MOUNTING PLATE sides for a finished appearance. The plate shall be coated with the same finish as the engine enclosure and shall be secured to the engine cover with screws for easy replacement.

An LED work light shall be installed in the engine enclosure with an individual switch located on the base of ENGINE HOOD LIGHTS the light.

WORK SURFACE

There shall be a flat work surface in front of the officer's seat.

Each upper cab crew door area shall be finished with a smooth aluminum panel, painted to match cab UPPER CREW DOOR AREA interior.

CHASSIS WIRING

All chassis wiring shall have XL high temperature crosslink insulation. All wiring shall be color-coded, and the function and number stamped at 3" intervals on each wire. All wiring shall be covered with high temperature rated split loom for easy access to wires when trouble shooting. All electrical connectors and main connectors throughout the chassis shall be treated to prevent corrosion.

The main chassis breaker panel shall be wired through the master disconnect solenoid and controlled by the MASTER ELECTRICAL PANEL three-position ignition rocker switch. The breaker panel shall be located in front of the officer on the interior firewall and shall be protected by a removable aluminum cover. The cover shall have an aluminum notebook holder on the exterior face accessible to the officer. The cover shall be painted with a durable finish to match the interior of the cab and shall be secured with two (2) thumb screws.

The breaker panel shall include up to 22 ground switched relays with circuit breaker protection. An integrated electrical sub-panel shall be provided and interfaced to the body and chassis through an

Twelve (12) 20-ampere relays and one (1) 70-ampere relay shall be provided for cab light bar and other electrical items. If the option for a mechanical siren has been selected two (2) additional relays shall be engineered wire harness system.

Up to two (2) additional relay boards with circuit breaker protection shall be provided for additional loads as required. Each board shall contain four (4) relays. The relay boards shall be configured to trip with input required. Each positive-negative or load manager by moving the connector on the board (no tools required). provided.

All relay boards shall be equipped with a power-on indicator light (red), input indicator light (green) and

Up to twenty-three (23) additional automatic reset circuit breakers for non-switched loads that are remotely power output indicator light (red). switched (ie: heater fans, hood lights, etc.) shall be provided.

All relays and circuit breakers on the relay boards shall be pull-out/push-in replaceable.

All circuit breakers on the relay boards shall be 20 ampere automatic reset which can be doubled or tripled

for 40 or 60-ampere capacity.

The system shall utilize Deutch DRC weather resistant connectors at the breaker panel, toe board and main dash connections.

All internal wire end terminals, including locking connectors, shall be mechanically affixed to the wire ends

by matching terminal crimping presses to assure the highest quality terminations.

All internal splices shall be ultrasonically welded connections and all internal wiring shall be high temperature GXL type wire that is protected by wiring duct wherever possible.

All switches shall be ground controlled; no power going through any rocker switch.

Any switch controlling a relay in the breaker panel shall be capable of being set to function only when the parking brake is set. All relays shall be tagged with the function that the relay is controlling.

INSTRUMENT PANEL

The main dash shroud, which covers the area directly in front of the driver from the doorpost to the engine hood, shall be constructed of vacuum formed ABS material with scorpion texture. The dash shall be a one piece hinged panel that tilts outward for easy access to service the internal components. The gauge panel piece ningeu panei mat mis outward for easy access to service me mæmai components. The gauge pane shall be constructed with a .125" aluminum panel, covered with a scratch resistant reverse printed and

The gauges shall be AMETEK Vehicular Instrumentation Systems (VIS), Next Generation Instrumentation System (NGI) with built-in self-diagnostics and red warning lights to alert the driver of any problems. All gauges and controls shall be backlit for night vision and identified for function. All main gauges and warning laminated poly carbonite. lights shall be visible to the driver through the steering wheel.

The vehicle shall be equipped with a keyless ignition, with a three (3)-position Master Battery rocker switch, WASTER BATTERY & IGNITION SWITCH "Off/ACC/On" and a two (2)-position Engine Start rocker switch, "Off/Start".

There shall be two (2) controls for the diesel particulate filter. One control shall be for regeneration and one There shall be to inhibit engine regeneration. These shall be located below the steering wheel in the kick DIESEL PARTICULATE FILTER CONTROLS panel.

INSTRUMENTATION & CONTROLS

Instrumentation on dash panel in front of the driver:

Tachometer/hourmeter with high exhaust system regeneration temperature, and instrument malfunction

Speedometer/odometer with built in turn signal, high beam, and re-settable trip odometer indicators

Voltmeter

Diesel fuel gauge

DEF (Diesel Exhaust Fluid) gauge

Engine oil pressure

Transmission temperature

Engine temperature

Primary air pressure

Secondary air pressure

Indicators and warning lights in front of the driver:

Parking brake engaged

Low air with buzzer

Antilock brake warning

Check transmission

Transmission temperature

Upper power indicator

Seat belt

Engine temperature

Low oil indicator

Low voltage indicator

Air filter restriction light

Low coolant indicator

High idle indicator

Power on indicator

Check engine

Stop engine

Check engine MIL lamp

DPF indicator

High exhaust temperature

Wait to start

Other indicator and warning lights (if applicable):

Differential locked

PTO (s) engaged

Auto-slip response

Retarder engaged

Retarder temperature

ESC indicator

Controls located on main dash panel in front of the driver:

Master power disconnect with ignition switch

Engine start switch

Headlight switch

Windshield wiper/washer switch

Differential lock switch (if applicable)

Dimmer switch for backlighting

Controls included in steering column:

Horn button

Turn signal switch

Hi-beam low-beam switch

4-way flasher switch Tilt-telescopic steering wheel controls

There shall be an ergonomically designed center control console. The console shall be constructed of 1/8" smooth aluminum and shall be mounted on the engine hood between the driver and officer. The console CENTER CONTROL CONSOLE shall have a durable coating to match the color of the engine hood covering and shall feature surfaces on each side that are contoured to face the driver and the officer for easy viewing and accessibility. The switches and other customer specified electrical items shall be mounted in removable 1/8" smooth aluminum panels with a black wrinkle finish. The console shall have an aluminum lift-up lid with quick release latch. The lid shall be held in the open position with a gas strut to allow for easy access and

Controls located in the console conveniently accessible to the driver: serviceability.

Pump shift control with OK TO PUMP and PUMP ENGAGED lights Illuminated rocker switches to control high idle, Jacob's brake, siren/horn, siren brake, master emergency, Remote mirror control and other customer specified components

Controls located in the console conveniently accessible to the driver and the officer (center):

Parking brake control with a guard to prevent accidental engagement

Illuminated rocker switches to control customer specified components that are easily reachable to the Controls located in the console conveniently accessible to the officer: officer and do not allow for compromise of the driver's view, and eliminate the need for foot switches

Surface to recess siren head, radio head, or other desired items as space permits 12V power point (if applicable)

Driving compartment warning labels shall include:

OCCUPANTS MUST BE SEATED AND BELTED WHEN APPARATUS IS IN MOTION DO NOT USE AUXILIARY BRAKING SYSTEMS ON WET OR SLIPPERY ROADS HEIGHT OF VEHICLE EXIT WARNINGS

Additional labels included:

COMPUTER CODE SWITCH ABS CODE SWITCH FLUID DATA TAG CHASSIS DATA TAG

An ergonomically designed overhead console shall be provided above the driver and officer, running the full width of the cab. The overhead console shall be constructed from 1/8" aluminum plate and shall be painted OVERHEAD CONTROL CONSOLE with a durable finish to match the inside of the cab. There shall be seven (7) removable 1/8" smooth aluminum plates with a black wrinkle finish to house switches and other electrical items.

Directly above the driver there shall be two (2) panels with no cutouts, unless otherwise specified by the

There shall be a panel located to the right of the driver that shall be designated for defroster, heat, and air customer.

The center overhead panel shall be designated for up to seven (7) door ajar indicators. Upon releasing the apparatus parking brake, one or more of these lights shall automatically illuminate (flash) when any of the conditioning controls (if specified). apparatus parking prake, one or more or mesengines and automations is moved; cab or compartment door is following conditions occur that may cause damage if the apparatus is moved; cab or compartment door is open; ladder or equipment rack is not stowed; stabilizer system deployed; any other device has not been

There shall be a panel to the left of the officer as well as two (2) directly above the officer. These panels shall properly stowed. have no cutouts, unless otherwise specified by the customer.

ENGINE WARNING SYSTEM

An engine warning system shall be provided to monitor engine conditions such as low oil pressure, high engine temperature and low coolant level. Warning indication shall include a STOP ENGINE (red) light with audible buzzer activation and a CHECK ENGINE (amber) light. Note: (Some engine configurations may also

There shall be a master information light bar with 24 lights located across the center of the dash panel that include a fluid warning light.) covers up to 24 functions. These are defined under Indicators and Warning Lights above.

An electronic pump shift module with a round knob toggle switch for shifting road mode/none/pump mode shall be within easy reach of the driver. The module shall be constructed of an aluminum composite panel and flush mount LED indicators with backlit verbiage. A gear lockup will be provided interlocked with park PUMP SHIFT MODULE brake to hold the transmission in direct drive for pump operation.

While the apparatus is in pump gear the odometer shall not be connected so that engine miles are not counted during pumping operations. The user shall still reference the engine RPM and light indicated in the PUMP INTERLOCK lower console to verify that the unit is in pump gear.

A Whelen ION-T LED light shall be installed in the cab near the driver. The light shall illuminate when the DO NOT MOVE APPARATUS INDICATOR LIGHT parking brake is released and any cab or body door is open or any other item on the apparatus is not properly stowed that may cause damage.

A mapbook slot shall be installed on exterior of the breaker panel located on the officer's side of the cab. MAPBOOK SLOT

Load manager shall have the ability to sequence loads on and off. The Super Node II has twenty-four (24) inputs and twenty-four (24) outputs. Eighteen (18) are positive polarity outputs and six (6) are ground PROGRAMMABLE LOAD MANAGER inpute and twenty-lour (2-7) outpute. Lighteen (20) are positive polarity outputs and six (v) are ground polarity outputs, it shall also be able to establish a 8 priority levels to shedding loads when the vehicle is stationary, starting at 12.8 volts lowest priority load to be shed, then respectively at 12.7, 12.5, 12.3, 12.1, 11.9, 11.5 and never shed volts DC. An output is shed (turned OFF) when the system voltage drops below the designated priority level's shed voltage for thirty (30) seconds. If the voltage has dropped below multiple priority level shed voltages then each higher priority level will shed before the lower priority levels. An output is unshed (turned back ON) when the system voltage rises above the designated priority level's unshed voltage for ten (10) seconds. If the voltage has risen above multiple priority level unshed voltages then each lower priority level will unshed before the upper priority levels.

All outputs can be tied or not tied to the stage switch. In fire apparatus this switch is typically referred to as the master switch. The state of the stage switch is controlled by Utility Module output memory space 3. When this output is active the stage switch is active. Any output tied to the stage switch will be OFF if the stage switch is not active regardless of the output's multiplex equation. Set an output to be tied to the stage switch by checking the stage switch box in its "Output Port Load Settings" under the "Settings" tab. The name of the stage switch can be changed from the standard "stage" to anything desired by modifying the text in the "Output Port Load Settings" area.

The Utility Module's high idle request (input memory space 2) is activated when the system voltage drops below the high idle threshold (12.8 volts standard or 25.6 volts if 24 volt load management is enabled) for 8 AUTOMATIC HIGH IDLE ACTIVATION seconds or longer AND load management has been enabled (Utility Module output memory space 1 is active). The high idle request will remain active as long as the voltage remains below the voltage threshold and for 3 minutes after the system voltage rises above the voltage threshold. High idle can be canceled by activating the Utility Module's high idle cancel (output memory space 0).

The engine shall have a "high idle" switch on the dash that shall maintain an engine RPM of 1,000. The switch shall be installed at the cab instrument panel for activation/deactivation. The "high idle" mode shall HIGH IDLE become operational only when the parking brake is on and the truck transmission is in neutral.

A fuse panel shall be located underneath the rear facing seat on the officer's side. The fuse panel shall consist of six (6) battery hot and six (6) ignition switch circuits. Each circuit shall be capable of 10-ampere 12-CAB ACCESSORY FUSE PANEL volt power and total output of 50-amps. The fuse panel shall be capable of powering accessories such as hand held spotlights, radio chargers, hand lantern chargers and other miscellaneous 12-volt electrical components.

POWER & GROUND STUDS, OVERHEAD COMMAND CONSOLE

There shall be a set of four (4) threaded power studs provided in the cab's overhead Command Console for future installation of two-way radios.

- The studs shall be wired as follows:
- One (1) 12-volt 60-amp, direct to the battery ignition off. One (1) 12-volt 30-amp switched battery first position on ignition switch.
 - One (1) 12-volt 30-amp ignition power second position on ignition switch.
 - One (1) 12-volt 125-amp ground.

POWER & GROUND STUDS, UNDER OFFICER'S SEAT

There shall be a minimum of four (4) threaded power studs provided under the officer's seat to accommodate the future installation of two-way radios.

- One (1) 12-volt 40-amp controlled by the battery switch The studs shall be wired as follows:
 - One (1) 12-volt 60-amp controlled by the ignition switch
 - One (1) 12-volt 60-amp, direct to the battery
 - One (1) 12-volt 100-amp ground

An Akron / Weldon vehicle data recorder as required by the 2009 edition of NFPA 1901 shall be installed. Vehicle data shall be sampled at the rate of 1 second per 48 hours, and 1 minute per 100 engine hours. VEHICLE DATA RECORDER

Free software is available to allow the fire department to collect the data as needed.

A 12-volt 20-ampere auxiliary lighter socket type plug-in, shall be provided in the cab. AUXILIARY POWER POINT

DUAL USB POWER POINT

A 12-volt dual port USB power point shall be provided in the cab.

LIGHTING CAB INTERIOR

Interior lighting shall be provided inside the front of the cab for passenger safety. Two (2) Whelen 6" round ceiling mounted combination red/clear LED dome lights with a push button on/off switch in the light lens. One light shall be located over each the officer and driver's position. The lights shall also activate from the open door switch located in each cab doorjamb.

Interior lighting shall be provided inside the crew cab for passenger safety. Two (2) Whelen 6" round ceiling mounted combination red/clear LED dome lights with a push button on/off switch in the light lens shall be LIGHTING CREW CAB INTERIOR provided. The lights shall also activate from the open door switch located in each cab doorjamb.

CAB PILLAR SPOT LIGHT

UNITY LED "A" pillar spotlights, one each side front of Cab.

-Black Housing.

There shall be a minimum 80,000 cool BTU and 65,000 heat BTU single unit, heater/air conditioner mounted HEAVY DUTY HEATER/DEFROSTER/AIR CONDITIONER over the engine cover. The unit shall be mounted in center of the cab on the engine hood/enclosure. Unit shall have a shutoff valve at the right side of the frame, next to the engine. Airflow of the heater/air conditioner shall be a minimum 1200 CFM. To achieve maximum cooling, a TM-31 Compressor (19.1 cu. in.)

The defroster/heater shall be a minimum of 35,000 BTU and shall be a separate unit mounted over the windshield. There shall be eight (8) louvers/diffusers to direct to windshield and door glass. Airflow of the defroster/heater.shall be a minimum 350 CFM. The unit shall be painted Zolatone greystone to match the will be used.

The condenser shall be roof mounted and have 80,000 BTU rating. The unit shall include two fan motors. Airflow of the condenser shall be a minimum 2250 CFM. (This roof-mounted condenser shall work at full cab ceiling. rated capacity at an idle with no engine heat problems.)

The heater/defroster/air conditioning shall be located in the overhead console in the center of the apparatus HEATER/DEFROSTER/AIR CONDITIONING CONTROLS cab within reach of the driver and officer. The controls shall be illuminated for easy locating in dark conditions. The controls shall be located in such a way that the driver will not be forced to turn away from the road to make climate control adjustments. Control of all heater/defroster/air conditioning functions for the entire apparatus cab shall be achieved through these controls.

There shall be ductwork to the floor of the cab, facing forward to provide heat for the front of cab floor area. FLOORBOARD HEATING DUCT

A molded diffuser made of durable ABS plastic ductwork system shall be provided. It shall be form fitted and DEFROSTER DIFFUSER shall attach to the cab's overhead defroster unit to provide temperature controlled air to the windshields. Air flow of up to 280 cfm is balanced and directed across the entire windshield for optimum defrosting capability in all types of weather.

There shall be a 3/16" smooth aluminum plate installed on top of the heat/ air conditioning unit for use in mounting of equipment. The plate shall measure approximately 25" wide x 19.5" long and shall be spaced up TOOL MOUNTING PLATE 1". The mounting plate shall feature beveled edges on the front and rear for a finished appearance. The plate shall be coated with the same finish as the heat/air conditioning unit and shall be secured with screws for easy replacement.

A H.O. Bostrom Sierra high back ABTS seat with air suspension shall be provided for the driver. The seat shall be equipped with a red 3-point shoulder harness with lap belt. The seat shall have fore/aft adjustment and DRIVER'S SEAT shall be upholstered with heavy duty Low Seam Durawear Plus material.

The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the HELIMET STORAGE riding position warning that injury may occur if helmets are worn while seated.

An H.O. Bostrom Tanker 450 ABTS SCBA seat shall be provided for the officer. The seat back shall have a SCBA cavity and auto-pivot-and-return padded headrest. The seat shall be equipped with a red 3-point OFFICER'S SEAT shoulder harness with lap belt and an automatic retractor built into the seat assembly. The seat shall be upholstered with heavy duty Low Seam Durawear Plus material.

There shall be a storage area under the officer's seat, accessible from the front through a hinged door with UNDER SEAT STORAGE COMPARTMENT Southco C5 compression lever latch. The door shall be shall be painted with a durable finish to match the inside of the cab and shall be vertically hinged near the engine enclosure.

The storage area shall be approximately 19.5" wide x 14.375" high x 21.75" deep. The lower rear portion of the compartment shall be tapered to accommodate the wheel well and wiring chase. The opening shall be approximately 15.5" wide x 10.5" high.

The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the HELMET STORAGE riding position warning that injury may occur if helmets are worn while seated.

One (1) H.O. Bostrom Tanker 450 ABTS SCBA fixed base seat shall be installed behind the driver. The seat CREW SEAT - DRIVER'S SIDE, REAR FACING back shall have a SCBA cavity and auto-pivot-and-return padded headrest. The seat shall be equipped with a red 3-point shoulder harness with lap belt and an automatic retractor built into the seat assembly. The seat shall be upholstered with heavy duty Low Seam Durawear Plus material.

The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the HELMET STORAGE riding position warning that injury may occur if helmets are worn while seated.

One (1) H.O. Bostrom Tanker 450 ABTS SCBA fixed base seat shall be installed behind the officer. The seat CREW SEAT - OFFICER'S SIDE, REAR FACING back shall have a SCBA cavity and auto-pivot-and-return padded headrest. The seat shall be equipped with a red 3-point shoulder harness with lap belt and an automatic retractor built into the seat assembly. The seat shall be upholstered with heavy duty Low Seam Durawear Plus material.

The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the HELIMET STORAGE riding position warning that injury may occur if helmets are worn while seated.

One (1) H.O. Bostrom Tanker 400CT ABTS SCBA flip-up base seat shall be installed in the driver's side CREW SEAT - DRIVER'S SIDE, FORWARD FACING, INBOARD forward-facing inboard position. The seat back shall have a SCBA cavity and auto-pivot-and-return padded headrest. The seat shall be equipped with a red 3-point shoulder harness with lap belt and an automatic retractor built into the seat assembly. The seat shall be upholstered with heavy duty Low Seam Durawear Plus material.

The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the HELMET STORAGE riding position warning that injury may occur if helmets are worn while seated.

EMS CABINET, FORWARD FACING DOUBLE ON SEAT LOCATIONS 6 &4 **EIVIS CABINET**

The compartment shall come complete with a single inteior access opening with a R.O.M. satin finished roll-INTERIOR COMPARTMENT OPENING up door to cover that opening.

There shall be two (2) adjustable shelves provided and installed in the compartment. The shelves shall be ADJUSTABLE SHELVES fabricated of .188 aluminum plate and have two 1.5" x 1.5" x .188" aluminum angles welded to the underside of the shelf for support.

The interior door shall be equipped with a combination lock. DOOR LOCK

SEAT UPHOLSTERY COLOR

The cab seat upholstery shall be black in color.

Each SCBA seat in the cab shall feature an IMMI SmartDock hands-free self contained breathing apparatus SCBA BRACKETS (SCBA) storage bracket within the seat back.

The bracket shall consist of a main vertical support bracket, lower guide plate with valve retaining tabs, top claw assembly with wings, and an integral height adjustment knob. The top claw shall be adjustable for different diameters of SCBA cylinders. The head height shall be adjustable with the integrated adjustment

The bracket shall feature single-motion SCBA insertion and hands-free release when the fire fighter stands knob for different heights of SCBA cylinders. up to exit the seat. In the event of a collision, the top claws lock from inertial forces for a secure hold.

An Akron / Weldon seat belt warning system shall be provided, and shall monitor each seating position. Each seat shall be supplied with a sensor that, in conjunction with the display module located on the dash, shall SEAT BELT WARNING SYSTEM determine when the seat belt was fastened and if the seat is occupied. An icon shall represent that the seat is properly occupied. An audible and visual alarm shall be activated if the seat is occupied and/or the belt is not fastened in the proper sequence.

A compartment shall be provided under the forward facing crew seats on the back wall of the cab. Two drop down doors shall be provided on the front face of the compartment. Compartment dimensions are 91.5"LX CREW SEAT COMPARTMENT 14"H x 19"W.

An overhead storage area shall be provided at the front of the raised roof portion inside of the cab above the rear-facing crew seats. The full-width storage area shall be approximately 84" wide x 15.5" high x 17" deep IN-CAB OVERHEAD STORAGE AREA and shall have a Zolatone gray/black rubberized, textured finish to match the cab interior. The storage area shall be equipped with aluminum lift-up doors.

Provisions shall be made for the installation of customer furnished radio.

The customer supplied radio antenna shall be installed in the cab roof with the coax cable run to the radio ANTENNA MOUNTING mounting area. The radio location shall be determined at the pre-construction meeting.

A Jensen HD AM/FM/WB Bluetooth stereo shall be provided with four speakers. **HD STEREO**

A six position David Clark intercom system shall be provided in the cab. The six positions include: driver, COMMUNICATION SYSTEM officer and four crew seats. The driver and officer positions shall be interfaced with radio.

A FRC, powered by SEON, model SNB100-C00 InView™ 360 Video system kit shall be provided, which includes four (4) cameras, an Electronic Control Unit (ECU), required harnesses and a manual camera switch, CAMERA SYSTEM and a SNB100-C00-MH0 7" HD monitor mounted in the cab. The kit shall provide split video feeds with bird's-eye view and individual camera views. It shall be capable of integrating with an existing vehicle system for an automatic camera view, which seamlessly switches from front/left/right/rear views based on turn signal and reverse activation. It shall also feature a switch module that allows the operator to override the default camera view. The system shall feature NTSC video inputs for (4) four cameras, and also have NTSC, CVBS (SD) 2-channel view output. It shall have a 150 degree horizontal camera view angle, and have a resolution of 720 x 480 at 30 FPS (frames per second). The ECU shall feature built-in recording to record each camera input separately and support (4) four 256GB SD cards (SD card sold separately). support (6) six different view modes, configure & customize set up shall be supported via monitor and IR

The system shall operate from 10 to 32 VDC, and shall consume no more than 2.2 amps of power. It shall operate from -22° F to 158° F. It shall weigh less than 9 lbs. The ECU (Electronic Control Unit) shall have dimensions of 6.8" Lx 4.9" HX 1.5" D. The camera shall have dimensions of 1.3" LX 1.9" HX 2.4" W.

MOUNTING OF 5 RADIO VEHICLE CHARGERS

- -Sutphen will supply and mount 5 radio vehicle chargers.
- -Part number from B&C NNTN7624. Customer to confirm number. TBD
- -Location near each of the seat positions.

SUTPHEN SUPPLIED RADIO DUAL HEAD, MOUNTED

- ENG Radio Information -(2) H1930A Motorola E5 Control Heads.
- -(1) H1853D Retro Fit Kit.
- -(1) HKN6188B Power Cable.
- -(1) HSN404A Water Resistant Speaker.

- -(2) HKN6168B 30ft. Power Cable.
- -(2) HKN6186A Control Head Trunion.

SUTPHEN SUPPLIED RADIO DUAL HEAD, MOUNTED

- **ENG Radio Information** -(2) H1930A Motorola E5 Control Heads.
- -(1) H1853D Retro Fit Kit.
- -(1) HKN6188B Power Cable.
- -(1) HSN404A Water Resistant Speaker.
- -(2) HKN6168B 30ft. Power Cable.
- -(2) HKN6186A Control Head Trunion.

Fire pump shall be midship mounted. The fire pump shall be of the double suction single stage centrifugal FIRE PUMP HALE QMAX-200 type, carefully designed in accordance with good modern practice.

The pump shall be of fine grain alloy cast iron, with a minimum tensile strength of 30,000 PSI.

The pump body shall be horizontally split, on a single plane, casing type with removable lower casing for easy removal of the entire impeller assembly including wear rings and bearings from beneath the pump without disturbing piping or the mounting of the pump in the chassis.

All moving parts in contact with water shall be of high quality bronze or stainless steel. Easily replaceable bronze labyrinth wear rings shall be provided. Discharge passage shall be designed to accomplish uniform pressure readings as the actual pump pressure. The rated capacity of the fire pump shall be 2000 gallons per

The pump shaft shall be rigidly supported by three bearings for a minimum deflection. One high lead bronze minute in accordance with NFPA# 1901. sleeve bearing shall be located immediately adjacent to the impeller (on side opposite the drive unit). The sleeve bearing shall be lubricated by a force fed, automatic lubrication system, pressure balanced to exclude foreign material. The remaining bearings shall be heavy-duty type, deep groove ball bearings in the gearbox and they shall be splash lubricated.

The drive unit shall be designed of ample capacity for lubricating reserve and to maintain the proper PUMP TRANSFER CASE - G SERIES operating temperature. Pump drive unit shall be of sufficient size to withstand up to 16,000 lbs. ft. torque of the engine in both road and pump operating conditions.

The gearbox drive shafts shall be heat treated chrome nickel steel input and output shafts shall be at least 2-3/4" in diameter, on both the input and output shafts. They shall withstand the full torque of the engine in

The engagement of the pump transmission shall be of such design so as to permit transfer of power from both road and pump operating conditions. road to pump operation only after vehicle is completely stopped. The pump shift shall be air actuated from the cab and have both a green "Pump Engaged" light, and a green "O.K.-To-Pump" light. A third green light shall be provided on the pump operator's panel for "Throttle Ready".

The pump drive unit shall be cast and completely manufactured and tested at the pump manufacturer's factory.

The pump shaft shall have only one packing gland located on the inlet side of the pump. It shall be of split design for ease of repacking. The packing gland must be a full circle threaded design to exert uniform PUIVIP SEAL pressure on the packing to prevent "cocking" and uneven packing load when it is tightened. It shall be easily adjustable by hand with a rod or screwdriver and requiring no special tools or wrenches. The packing rings shall be of a unique combination of braided graphite filament and braided synthetic packing and have sacrificial zinc foil separators to protect the pump shaft from galvanic corrosion.

A manual emergency override shift shall be provided on the pump panel and may be used by placing both MANUAL PUMP SHIFT OVERRIDE the chassis transmission and the pump air shift control in "neutral" position.

The pump shall be tested and certified by a third party independent testing agency, in accordance with NFPA 1901. A 3 hour pumping test from draft shall be conducted consisting of 2 hours of continuous pumping at PUMP TEST & CERTIFICATION 100% of rated capacity at 150PSI net pump pressure, followed by ½ hour of continuous pumping at 70% of rated capacity at 200PSI net pump pressure, and ½ hour of continuous pumping at 50% of rated capacity at 250PSI net pump pressure). The testing shall also include a pressure control system test, priming system test, vacuum test, a gauge/flowmeter test, and a pumping engine overload test. If the apparatus is equipped with a water tank, the water tank-to-pump test shall also be included.

AUXILIARY COOLER

An auxiliary cooler shall be furnished to provide additional cooling to the engine under extreme pumping conditions. Water from the pump is to be piped to the coils of the heat exchanger allowing the engine fluid to be cooled as required.

All suction and discharge lines (except pump manifolds) 1" and larger shall be heavy-duty stainless steel pipe. Where vibration or chassis flexing may damage or loosen piping or where a coupling is necessary for PUMP CONNECTIONS servicing, a flexible connection shall be furnished. All lines shall be drained by a master drain valve or a separate drain provided at the connection. All individual drain lines for discharges shall be extended with a 90 degree fitting in order to drain below the chassis frame. All water carrying gauge lines shall utilize nylon tubing.

The booster tank shall be connected to the intake side of the pump with heavy-duty piping and check valves. The two (2) tank to pump lines shall run straight from the pump into the front face of the booster tank and TANK TO PUMP down into the sump. A flexible rubber coupling shall be included in these lines to prevent damage from vibration or chassis flexing.

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a selflocking ball feature using an automatic friction lock design and specially designed flow optimizing stainless VALVE steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by an Innovative Controls push/pull handle located at the operator's panel. VALVE ACTUATOR

A 2" tank fill line shall be provided, using a quarter turn full flow ball valve controlled from the pump TANK FILL operator's panel.

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a selflocking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by an Innovative Controls push/pull handle located at the operator's panel. VALVE ACTUATOR

Apparatus shall be equipped with a Class1 Pressure Governor that is connected to the Electronic Control Module (ECM) mounted on the engine. The Governor will operate as a pressure sensor (regulating) governor PRESSURE GOVERNOR

Programmable presets for RPM and Pressure settings shall be easily configurable using the menu structure. (PSG) utilizing the engine's data for optimal resolution and response.

Engine RPM, system voltage, engine oil pressure and engine temperature with audible alarm output for all shall be provided.

There shall be a Task Force Tips A1831 intake relief valve installed on the intake side of the pump. The surplus water shall be discharged away from the pump operator and terminate with Male NPT pipe thread. INTAKE RELIEF

System is field adjustable.

A 6" diameter suction port with 6" NST male threads shall be provided, on the left side of vehicle. The inlet shall extend through the side pump panels and come complete with removable strainer and long handle 6" PUIVIP INLET chrome-plated cap.

3" INLET LEFT SIDE

One 3" gated inlet valve shall be provided on the left side pump panel. The valve shall be supplied with chrome plate female swivel, plug, chain, and removable strainer.

VALVE

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a selflocking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by a swing type handle located at the operator's panel. The handle shall have a VALVE ACTUATOR full 90 degree movement.

The above shall terminate to the thread requirements of the fire department. The purchaser shall specify the THREAD TERMINATION actual thread dimensions required during the pre-construction conference.

A 6" diameter suction port with 6" NST male threads shall be provided, on the right side of vehicle. The inlet shall extend through the side pump panels and come complete with removable strainer and long handle 6" PUMP INLET chrome-plated cap.

A 3" gated inlet valve shall be provided on the right side pump panel. The valve shall be supplied with 3" INLET chrome plate female swivel, plug, chain, and removable strainer.

VALVE

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a selflocking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by a swing type handle located at the operator's panel. The handle shall have a VALVE ACTUATOR full 90 degree movement.

The above shall terminate to the thread requirements of the fire department. The purchaser shall specify the THREAD TERMINATION actual thread dimensions required during the pre-construction conference.

One (1) 2.5" NST male x 2.5" special thread female swivel adapter with 2.5" special thread plug and chain INLET ADAPTER shall be provided for the above inlet.

A front suction, with chrome long handle cap, shall be provided. The inlet pipe shall be constructed of 5" stainless steel pipe. An air bleeder line shall be provided to eliminate trapped air. The inlet shall terminate at FRONT SUCTION the front bumper.

A Hale Master Intake valve shall be installed on the above specified intake. It shall be electrically actuated from the pump panel and include a manual override hand wheel on the pump panel. The valve shall include INTAKE VALVE a pressure relief valve to guard against incoming pressure surges.

INTAKE RELIEF

A relief valve shall be installed on the intake side of the pump. The surplus water shall be discharged away from the pump operator and terminate with Male NST hose thread.

ADAPTER

A 5" NPT \times 6" NST adapter shall be provided for the front suction.

FRONT SUCTION ADAPTER

One (1) 6" NST x 5" Storz with cap and chain

The discharge in position #1 on the left side of the apparatus shall include the following features.

A 2.5" discharge shall be provided on the left side of the apparatus.

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self-VALVE locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by a swing type handle located at the operator's panel. The handle shall have a VALVE ACTUATOR full 90 degree movement.

2.5" PRESSURE GAUGE

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel pressure gauge shall be provided. The gauge shall be 2.5" in diameter with a white face, and black enhanced lettering. The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from – 40°F to +160°F. The gauge shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauge shall display a range from 0 to 400 psi with enhanced black markings on a white dial. IC Part Number 3101747-00-01.

DISCHARGE TERMINATION

The discharge valve shall be equipped with a straight termination that is capped and chained.

The above shall terminate to the thread requirements of the fire department. The purchaser shall specify the THREAD TERMINATION actual thread dimensions required during the pre-construction conference.

One (1) 2.5" NST female x 2.5" special thread male chrome plated adapter with 2.5" special thread chrome DISCHARGE ADAPTER plated cap and chain shall be provided for the above discharge.

One (1) $2.5^{\prime\prime}$ special thread female x $1.5^{\prime\prime}$ NST male chrome plated adapter with $1.5^{\prime\prime}$ NST chrome plated cap DISCHARGE ADAPTER and chain shall be provided for the above discharge.

The discharge in position #2 on the left side of the apparatus shall include the following features. DISCHARGE #2 - LEFT

A 2.5" discharge shall be provided on the left side of the apparatus.

VALVE

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a selflocking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by a swing type handle located at the operator's panel. The handle shall have a VALVE ACTUATOR full 90 degree movement.

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel pressure gauge shall be provided. The gauge shall be 2.5" in diameter with a white face, 2.5" PRESSURE GAUGE and black enhanced lettering. The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from 40°F to +160°F. The gauge shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauge shall display a range from 0 to 400 psi with enhanced black markings on a white dial. IC Part Number 3101747-00-01.

The discharge valve shall be equipped with a straight termination that is capped and chained. DISCHARGE TERMINATION

The above shall terminate to the thread requirements of the fire department. The purchaser shall specify the THREAD TERMINATION actual thread dimensions required during the pre-construction conference.

DISCHARGE ADAPTER

One (1) 2.5" NST female x 2.5" special thread male chrome plated adapter with 2.5" special thread chrome plated cap and chain shall be provided for the above discharge.

One (1) 2.5" special thread female x 1.5" NST male chrome plated adapter with 1.5" NST chrome plated cap DISCHARGE ADAPTER and chain shall be provided for the above discharge.

The discharge in position #3 on the right side of the apparatus shall include the following features. DISCHARGE #3 - RIGHT

A 3" discharge shall be provided on the right side of the apparatus.

The valve shall be an Akron slow close type Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow VALVE, SLOW CLOSE while incorporating a self-locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10-year warranty covered by Akron Brass.

The valve shall be controlled by a swing type handle located at the operator's panel. The handle shall have a VALVE ACTUATOR full 90 degree mövement.

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel pressure gauge shall be provided. The gauge shall be 2.5" in diameter with a white face, 2.5" PRESSURE GAUGE and black enhanced lettering. The gauge shall be fully-filled with a synthetic mixture to dampen shock and Page 67 of 109

vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from -40°F to +160°F. The gauge shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauge shall display a range from 0 to 400 psi with enhanced black markings on a white dial. IC Part Number 3101747-00-01.

The discharge valve shall be equipped with a straight termination that is capped and chained. DISCHARGE TERMINATION

THREAD TERMINATION

The above shall terminate with National Standard Threads.

One (1) Task Force Tips #AA3ST-NL 3" NST female x 5" Storz adapter with #A01ST 5" Storz cap and chain shall DISCHARGE ADAPTER be provided for the above discharge.

The discharge in position #4 on the right side of the apparatus shall include the following features. DISCHARGE #4 - RIGHT

A 3" discharge shall be provided on the right side of the apparatus.

The valve shall be an Akron slow close type Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow VALVE, SLOW CLOSE While incorporating a self-locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10-year warranty covered by Akron Brass.

VALVE ACTUATOR

The valve shall be controlled by a swing type handle located at the operator's panel. The handle shall have a full 90 degree movement.

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel pressure gauge shall be provided. The gauge shall be 2.5" in diameter with a white face, 2.5" PRESSURE GAUGE and black enhanced lettering. The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from 40°F to +160°F. The gauge shall also include a KEW-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauge shall display a range from 0 to 400 psi with enhanced black markings on a white dial. IC Part Number 3101747-00-01.

The discharge valve shall be equipped with a straight termination that is capped and chained. DISCHARGE TERMINATION

THREAD TERMINATION

The above shall terminate with National Standard Threads.

One (1) Task Force Tips #AA3ST-NL 3" NST female x 5" Storz adapter with #A01ST 5" Storz cap and chain shall DISCHARGE ADAPTER be provided for the above discharge.

The discharge in position #5 on the right side of the apparatus shall include the following features. DISCHARGE #5 - RIGHT

A 2.5" discharge shall be provided on the right side of the apparatus.

VALVE

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a selflocking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by an innovative Controls push/pull handle located at the operator's panel. VALVE ACTUATOR

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel pressure gauge shall be provided. The gauge shall be 2.5" in diameter with a white face, 2.5" PRESSURE GAUGE and black enhanced lettering. The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from — 40°F to +160°F. The gauge shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauge shall display a range from 0 to 400 psi with enhanced black markings on a white dial. IC Part Number 3101747-00-01.

The discharge valve shall be equipped with a straight termination that is capped and chained. DISCHARGE TERMINATION

The above shall terminate to the thread requirements of the fire department. The purchaser shall specify the THREAD TERMINATION actual thread dimensions required during the pre-construction conference.

One (1) 2.5" NST female x 2.5" special thread male chrome plated adapter with 2.5" special thread chrome DISCHARGE ADAPTER plated cap and chain shall be provided for the above discharge.

One (1) 2.5" special thread female x 1.5" NST male chrome plated adapter with 1.5" NST chrome plated cap DISCHARGE ADAPTER and chain shall be provided for the above discharge.

2 CAPS FOR 5 INCH STORZ

2 CAPS FOR 5" STORZ X 2.5" CLEVELAND TREAD W/CAP

2 CAPS FOR 5 INCH STORZ

Ship 2 caps for 5 inch storz loose

2.5" ADAPTOR X 2

ADAPTER, 2.5" SPEC FE X 1.5" NST M W/CAP & CHAIN (SHIP LOOSE) (2)

There shall be a 2.5" gated discharge piped to the left rear, adjacent to the hose bed. The discharge shall be installed with proper clearance for spanner wrenches or adapters. Plumbing shall be 2.5" piping and a full 2.5" DISCHARGE LEFT REAR flow 2.5" ball valve with the control at the pump operator's panel.

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a selflocking ball feature using an automatic friction lock design and specially designed flow optimizing stainless VALVE steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by an innovative Controls push/pull handle located at the operator's panel.

2.5" PRESSURE GAUGE

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel pressure gauge shall be provided. The gauge shall be 2.5" in diameter with a white face, and black enhanced lettering. The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from 40°F to +160°F. The gauge shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauge shall display a range from 0 to 400 psi-with enhanced black markings on a white dial. IC Part Number 3101747-00-01.

The discharge valve shall be equipped with a straight termination that is capped and chained. DISCHARGE TERMINATION

The above shall terminate to the thread requirements of the fire department. The purchaser shall specify the THREAD TERMINATION actual thread dimensions required during the pre-construction conference.

One (1) 2.5" NST female x 2.5" special thread male chrome plated adapter with 2.5" special thread chrome DISCHARGE ADAPTER plated cap and chain shall be provided for the above discharge.

One (1) 2.5" special thread female x 1.5" NST male chrome plated adapter with 1.5" NST chrome plated cap DISCHARGE ADAPTER and chain shall be provided for the above discharge.

There shall be a 2.5" gated discharge piped to the right rear, adjacent to the hose bed. The discharge shall be installed with proper clearance for spanner wrenches or adapters. Plumbing shall be 2.5" piping and a full 2.5" REAR DISCHARGE flow 2.5" ball valve with the control at the pump operator's panel.

VALVE

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a selflocking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by an Innovative Controls push/pull handle located at the operator's panel. VALVE ACTUATOR

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel pressure gauge shall be provided. The gauge shall be 2.5" in diameter with a white face, and black enhanced lettering. The gauge shall be fully-filled with a synthetic mixture to dampen shock and 2.5" PRESSURE GAUGE vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from 40°F to +160°F. The gauge shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauge shall display a range from 0 to 400 psi with enhanced black markings on a white dial. IC Part Number 3101747-00-01.

The discharge valve shall be equipped with a straight termination that is capped and chained. DISCHARGE TERMINATION

The above shall terminate to the thread requirements of the fire department. The purchaser shall specify the THREAD TERMINATION actual thread dimensions required during the pre-construction conference.

One (1) 2.5" NST female x 2.5" special thread male chrome plated adapter with 2.5" special thread chrome DISCHARGE ADAPTER plated cap and chain shall be provided for the above discharge.

One (1) 2.5" special thread female x 1.5" NST male chrome plated adapter with 1.5" NST chrome plated cap DISCHARGE ADAPTER and chain shall be provided for the above discharge.

A 2.5" discharge with 2.5" plumbing shall be provided at the front bumper. The valve shall be remote FRONT BUMPER DISCHARGE controlled at the pump panel.

VALVE

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a selflocking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by an Innovative Controls push/pull handle located at the operator's panel. VALVE ACTUATOR

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished 2.5" PRESSURE GAUGE stainless steel bezel pressure gauge shall be provided. The gauge shall be 2.5" in diameter with a white face, and black enhanced lettering. The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from 40°F to +160°F. The gauge shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauge shall display a range from 0 to 400 psi with enhanced black markings on a white dial. IC Part Number 3101747-00-01.

The above shall terminate to the thread requirements of the fire department. The purchaser shall specify the THREAD TERMINATION actual thread dimensions required during the pre-construction conference.

One (1) 2.5" NST female x 2.5" special thread male chrome plated adapter with 2.5" special thread chrome **DISCHARGE ADAPTER** plated cap and chain shall be provided for the above discharge.

One (1) 2.5" special thread female \times 1.5" NST male chrome plated adapter with 1.5" NST chrome plated cap DISCHARGE ADAPTER and chain shall be provided for the above discharge.

GATED WYE

2.5" SPEC FE X (2) 1.5" PYROLITE COUPLING M

A 3" deluge riser shall be installed above the pump in such a manner that a monitor can be mounted and **DELUGE RISER** used effectively. Piping shall be rigidly braced. The riser shall be gated and controlled from the pump operators panel.

The valve shall be an Akron slow close type Heavy-Duty swing out 8000 series brass body with flow VALVE, SLOW CLOSE optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self-locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10-year warranty covered by Akron Brass.

VALVE ACTUATOR

The valve shall be controlled by an Innovative Controls push/pull handle located at the operator's panel.

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished 2.5" PRESSURE GAUGE stainless steel bezel pressure gauge shall be provided. The gauge shall be 2.5" in diameter with a white face, and black enhanced lettering. The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from 40°F to +160°F. The gauge shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauge shall display a range from 0 to 400 psi with enhanced black markings on a white dial. IC Part Number 3101747-00-01.

DECK GUN TERMINATION

The deck gun piping shall terminate with NPT threads.

An Elkhart Brass Model 8599 Manual Extender shall be provided and installed. The Extender shall provide capability of raising the water monitor 18". It comes with a 3" hard-anodized aluminum waterway and be **EXTENDER** furnished with a 3" NPT or 3" Victaulic inlet coupling, and a 3" NPT outlet.

The above shall terminate to the thread requirements of the fire department. The purchaser shall specify the THREAD TERMINATION actual thread dimensions required during the pre-construction conference.

Two (2) speedlays shall be provided in the body below the crosslays equipped each with a lift-out tray and accessible from both sides of the apparatus. The piping and valves shall be 2", the swivel shall be 1.5". The SPEEDLAYS valves shall be the "drop-out" style, push/pull controlled from the pump panel. Each compartment shall hold 200 ft. of 1.75" double jacket hose.

CROSSLAY

One (1) crosslay hose bed shall be supplied. The piping and valve shall be 2.5", the swivel shall be 2.5". The valve shall be the "drop-out" style, push/pull controlled from the pump panel. Compartment shall have capacity for 200 ft. of 2.5" double jacket hose.

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a selflocking ball feature using an automatic friction lock design and specially designed flow optimizing stainless VALVE steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10year warranty covered by Akron Brass.

The valve shall be controlled by an Innovative Controls push/pull handle located at the operator's panel.

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel pressure gauge shall be provided. The gauge shall be 2.5" in diameter with a white face, 2.5" PRESSURE GAUGE and black enhanced lettering. The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from 40°F to +160°F. The gauge shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauge shall display a range from 0 to 400 psi with enhanced black markings on a white dial. IC Part Number 3101747-00-01.

The above shall terminate to the thread requirements of the fire department. The purchaser shall specify the THREAD TERMINATION actual thread dimensions required during the pre-construction conference.

One (1) 2.5" NST female x 2.5" special thread male chrome plated adapter with 2.5" special thread chrome DISCHARGE ADAPTER plated cap and chain shall be provided for the above discharge.

An aluminum diamond plate cover shall be installed over the crosslay hose beds. It shall include a chrome grab handle at each end for opening and closing the cover. The cover shall be equipped with webbing on the CROSSLAY COVER sides which shall be securely fastened.

SPEEDLAY COVER

Black webbing shall be provided to enclose the ends of the speedlays.

The crosslay cover shall be secured with airplane seatbelt style latches. **COVER FASTENERS**

3 hose trays will be supplied and large enough to hold 250 ft of 2" hose double stacked 3 HOSE TRAYS

A multiport master drain valve shall be provided and plumbed to multiple locations on the main pump body. MASTER PUMP DRAIN The valve assembly shall be clearly marked as the Master Drain.

Vertical lift up style, quarter turn style drain valves shall be provided for each suction inlet, or discharge outlet as specified. Each drain shall be clearly marked and color coded to match the corresponding suction of DRAIN VALVES LIFT UP STYLE discharge.

The apparatus shall be equipped with a Hale SmartFOAM 2.1A fully automatic electronically controlled, SMARTFOAM 2.1A PROPORTIONING SYSTEM direct injection, discharge side foam proportioning system. Foam proportioning operation shall be based on direct measurement of water flow, and remain consistent within the specified flows and pressures. maximum operating pressure of 250 psi.

A 12-volt DC powered variable-speed electronic direct-injection foam-concentrate proportioning system with a 2.1-gpm-foam concentrate pump shall be integrated into the apparatus to provide foam proportioning. The pump shall be capable of handling Class A or Class B foam concentrate only and be

The system shall operate via a paddlewheel flow sensor mounted in a 3-inch stainless steel check-valve operated by a full-function panel mounted digital display. manifold that includes a chemical injection point.

The inlet of this stainless steel manifold/check-valve assembly will be connected to the fire pump, and the outlet connected to the foam capable discharge outlet(s) on the fire apparatus, as specified. The flow sensor/stainless-steel foam manifold combination shall be capable of water or foam solution flow rates of 30- to 750-gpm. The foam proportioning system shall be equipped with a panel mounted digital display control unit with a microprocessor that monitors total water flow and foam concentrate pump output to provide the operator preset proportional amount of foam concentrate injected on the discharge side of the fire pump. Total foam concentrate pump concentrate output shall be 2.1 gallons per minute. rate is push-button set by the pump operator on the digital display from 0.1% to 10%, in 0.1% increments.

The digital display panel mounted electronic operator control unit shall provide concentrate injection readout in tenths of a percent while also being able to read water flow, total water flowed and total amount of foam concentrate used. The control shall flash a warning indicating low concentrate in the reservoir to the operator, and shall be able to shut off the concentrate pump to prevent damage to the pump. A bar graph on the control unit shall provide visual indication of system operating capacity and will indicate when

The foam concentrate pump shall be fed concentrate by a non-metallic housing foam concentrate strainer capacity is exceeded. that is equipped with a service shut-off valve.

The unit will be fed 12-volt DC power from the apparatus electrical system, and be equipped with a chassis frame ground strap, per the foam proportioner manufacturer's installation and operating instruction manual.

There shall be a 30-gallon foam tank. The tank shall be part of the main booster tank. There shall be a 3" PVC fill tower and cap and a tank vent. There shall be a 1-1/2" flanged outlet and drain valve at the lowest point FOAM TANK in the tank.

A manually operated quarter turn flush valve shall be provided and installed. FOAM FLUSH

PUMP AND GAUGE PANELS, SIDE MOUNT

The pump controls and gauges shall be located at the left side of the apparatus. The pump and gauge panels Pump panels on both sides shall be easily removable. The gauge and control panels shall be two separate

panels for ease of maintenance. The upper gauge panel shall be hinged with a full-length stainless steel hinge held closed with a 1/4-turn latch. There shall be one (1) hinged access door as large as possible located over the right side pump panel. This door shall have a full-length stainless steel hinge and a 1/4 turn latching

The control panel shall be laid out in a user-friendly manner. All valve controls shall have the corresponding discharge gauge located immediately adjacent to control handle to allow operator to view the discharge pressure without searching the panel.

The panels shall be constructed of brushed stainless steel for maximum protection against abrasion caused PANEL FINISH during normal use.

The pump panel shall be equipped with color-coded removable escutcheon plates around the suction and ESCUTCHEON PLATES discharge valves.

Each discharge valve control, outlet, and corresponding line gauge shall be color-coded. The color-coding COLOR CODING shall be (as applicable):

#1 Discharge - Yellow

#2 Discharge – White

#3 Discharge - Navy Blue

#4 Discharge - Black

#5 Discharge - Green

#1 Pre-Connect - Orange

#2 Pre-Connect - Red

#3 Pre-Connect - Brown #4 Pre-Connect - Magenta Front Bumper Line - Turquoise Large Diameter Discharge – Yellow with White Border Left Hose Bed Pre-Connect - Tan Right Hose Bed Pre-Connect - Lavender Left Rear Discharge - Olive Right Rear Discharge - Light Blue Deck Gun - Silver Inlets - Burgundy Tank Fill - Lime Green Tank to Pump - Burgundy

The pump module framework shall be painted as specified by the customer at the pre-construction meeting. PUMP MODULE FRANKWORK The paint finish shall be applied before the installation of any wiring, gauge lines, valve linkages, or operator's panel. The paint shall be the same material used for the finished body and cab.

The plumbing shall be painted as specified by the customer at the pre-construction meeting. All fittings, pipe ends and valve ends shall be properly taped off prior to applying paint. The paint finish shall be applied PLUMBING FINISH before the installation of any wiring, gauge lines, valve linkages, or operator's panel. The paint shall be the same material used for the finished body and cab.

EXTERIOR DUNNAGE AREA

The exterior dunnage panels shall be constructed of aluminum diamondplate.

A trough shall be provided in the running boards on both the driver's side and officer's side, each capable of RUNNING BOARD TROUGHS holding a 15-foot length of 5" hose.

The driver's side pump panel controls and gauges shall be illuminated by a full width white TecNiq E45 LED PUMP PANEL LIGHTING, LED light strip, controlled at the pump panel.

The officer's side pump panel shall be illuminated by a full width white TecNiq E45 LED light strip, controlled PUMP PANEL LIGHTING, LED at the pump panel.

An LED work light shall be installed in the pump module enclosure with an individual switch located on the PUMP MODULE ENCLOSURE LED LIGHT officer side of the module

UPGRADE EACH SIDE PANEL AND OPERATOR LIGHTS TO MULTICOLOR WHITE/RED CONTROLED BY A SWITCH PUMP PANEL LIGHTS ON THE PUMP PANEL.

PUMP PANEL GAUGES AND CONTROLS

The following gauges and controls shall be provided at the pump panel:

- Two (2) certified laboratory test gauge outlets.
- Pump primer control.
- Master drain control and additional drains as needed.
- Tank-fill and pump cooler valve controls.
- Tank to pump valve control.
- Pump capacity rating plate.
- All discharge controls.
- Two (2) master pump gauges.
- Gauges on all 1-1/2" and larger discharge lines.

The priming pump shall be a Trident Emergency Products compressed air powered, high efficiency, multi-PRIMING SYSTEM stage, venturi based AirPrime System. All wetted metallic parts of the priming system are to be of brass and stainless steel construction. The priming system shall have a five year warranty.

(1) PRIMER BUTTON - MAIN SUCTION

A single panel mounted control will activate the priming pump and open the priming valve to the pump.

COMPRESSION FITTINGS ON AIR SYSTEM

Compression style fittings shall be provided on air lines within the pump module.

A push button switch shall be provided on pump operators panel to activate the air horns. AIR HORN BUTTON

A compartment shall be provided adjacent to the pump operator's panel to hold a microphone or headset. MICROPHONE COMPARTMENT

An Innovative Controls TC Series glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel pump pressure and vacuum gauges shall be provided. The gauges shall be 4" in diameter **4" MASTER GAUGES** with a white face, and black enhanced lettering. The gauges shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from -40°F to +160°F. The gauges shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube. The gauges shall display a range from -30 to 400 psi with enhanced black markings on a white dial.

An Innovative Controls SL-14 weather proof encapsulated (14) super bright LED light indicator shall monitor WATER TANK GAUGE the water tank level and shall be mounted on the pump operator's panel. The fourteen LED lights are arranged in a "V" pattern for easy identification of liquid level. When the liquid level reaches less than a 1/4 full the refill level-begins to flash. The tank-sensing probe shall be chemical resistant PVC with stainless steel sensing wires. The cover plate shall be aluminum sub-plate, black background and blue graphics, with an outdoor exposure rated composite overlay.

Two (2) water tank gauges consisting of four (4) Whelen Model 500 Series LED lights shall be provided. The WATER TANK GAUGE lights shall be green, blue, amber, and red to indicate full, three-quarter, half, and red, respectively. The lights shall correspond with the water level gauge on the pump module.

An Innovative Controls SL-14 weather proof encapsulated (14) super bright LED light indicator shall monitor FOAM TANK GAUGE the foam tank level and shall be mounted on the pump operator's panel. The fourteen LED lights are arranged in a "V" pattern for easy identification of liquid level. When the liquid level reaches less than a 1/4 full the refill level begins to flash. The tank-sensing probe shall be chemical resistant PVC with stainless steel sensing wires. The cover plate shall be aluminum sub-plate, black background and red graphics, with an outdoor exposure rated composite overlay.

The water tank shall be constructed of polypropylene sheet stock. This material shall be non-corrosive, stress relieved thermoplastic, black in color and U.V. stabilized for maximum protection. The tank shall be of a WATER TANK special configuration and is so designed to be completely independent of the body and compartments.

The tank shall be constructed with transverse and longitudinal swash partitions. All partitions shall be equipped with vent and air holes to permit movement of air and water between compartments. The partitions shall be designed to provide maximum water flow and meet NFPA rules. All swash partitions shall interlock with one another and welded to each other as well as to the walls and floor of the tank.

The tank shall have a combination vent and fill tower. The fill tower shall be constructed of ½" thick polypropylene and shall be a minimum dimension of 8"x 8" outer perimeter. The tower shall have a ½" thick removable screen and a hinged-type cover. Inside the fill tower, there shall be a combination vent overflow pipe. The vent overflow shall be a minimum I.D. of 4" that is designed to run through the tank, and shall be piped behind the rear wheels where specified by the purchaser so as to maximize traction.

There shall be one (1) sump standard per tank. The sump shall be constructed of ½" black polypropylene and located in the left front corner of the tank, unless specified otherwise. On all tanks that require a front suction, a schedule 40 polypropylene pipe shall be installed that will incorporate a dip tube from the front of the tank to the sump location. The sump shall have a minimum 3" FNPT threaded outlet on the bottom for a drain plug. This shall be used as a combination cleanout and drain. The tank shall have an anti-swirl plate

There shall be two (2) standard tank outlets: one for tank to pump suction line and one for a tank fill line. All tank fill couplings shall be backed with flow deflectors to break up the stream of water entering the tank. All auxiliary outlets and inlets must meet N.F.P.A. 1900 guidelines in effect at the time of manufacture.

The tank shall rest on the body cross members to adequately support the water tank per the tank manufacturer's specifications.

The tank shall be isolated from the cross members through the use of hard rubber strips with a minimum thickness 1/4". Additionally, the tank shall be supported around the entire bottom outside perimeter and captured front and rear as well as side to side to prevent tank from shifting during vehicle operation.

The tank shall be completely removable without disturbing or dismantling the apparatus structure.

The tank shall come with a lifetime warranty. The tank manufacturer shall mark the tank and furnish notice that indicates proof of warranty.

WATER TANK SIZE

The water tank shall have a capacity of 1,000 U.S. gallons.

The chassis shall be fitted with a sub-frame system consisting of a series of steel plate gusseted legs, extending down and out from the chassis frame rails on each side. This system will provide additional structural support to the running boards and side compartments. A heavy-duty rear platform shall be BODY SUB-FRAME constructed of the same material to support the rear compartments and rear step. The entire assembly will be attached to the chassis frame by a series of heavy-duty U-bolts. Self-supporting bodies will not be acceptable. NO EXCEPTIONS

The body shall be constructed of 3/16" #5052 aluminum sheet, #3003 bright aluminum diamond plate and structural aluminum extrusions. The body shall be of the modular design to allow for proper flexing of the truck chassis. The body shall be custom built and engineered for proper load distribution on the chassis. An APPARATUS BODY insulator material shall be used where aluminum and steel are in contact to prevent corrosion.

The ceilings, sidewalls and floors of the body compartments shall be constructed of 3/16" 5052-H32 smooth aluminum plate with a tensile strength range of 32,000 to 44,000 psi. Continuous 4043 fill welding shall seal

The body framework shall be constructed of custom-designed aluminum alloy 6063-T5 extrusions with a compartment panels.

To eliminate "dead space" and to maximize compartment interior space, there shall be no more than 1/4" tensile strength of 35,000 psi. between outer and inner walls.

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The compartment extrusions shall be slotted full-length on backside for uniform fitting of the aluminum plate work that forms the compartment interiors.

The aluminum extrusion profiles shall incorporate 1" x 1-3/4" recessed continuous door seal at the bottom of the compartment. The extrusions shall be designed to allow unobstructed, sweep-out floors in all compartments.

The front, top, and rear surfaces of body shall be covered with .125" bright aluminum diamond treadplate. The forward and rear recessed surfaces shall be flush with the corner extrusions.

The compartment tops shall extend downward over the extrusions and form a drip molding. The material shall be .125 aluminum treadplate with approved aerated service for walking.

The compartment assemblies are to be fastened to the sub-frame with mechanical Huck-type bolts.

The apparatus body shall be a separate module form the pump enclosure and shall not be fastened together in any manner.

Each compartment shall be properly vented with louvers.

A1 - There shall be a compartment provided at the rear step. The compartment shall be approximately 40" REAR STEP COMPARTMENTATION wide x 40" high x 30-1/2" deep inside. The compartment shall be provided with a roll-up door.

- 1.1- There shall be a compartment ahead of the rear wheels approximately 43" wide x 66" high x 27-1/4"
- L2- There shall be a compartment above the rear wheels, approximately 61-1/2" wide x 36-1/2" high x 27-1/2" wide x 36-1/2" high x 36
- There shall be a compartment behind the rear wheels approximately 53-1/2" wide \times 66" high \times 27-1/4" 1/4" deep. deep.

COMPARTMENTATION RIGHT SIDE

- There shall be a compartment ahead of the rear wheels approximately 43" wide x 66" high x 27-1/4" deep. The upper portion of the compartment shall be 16" deep to accommodate ladder storage.
- R2- There shall be a compartment above the rear wheels approximately 61-1/2" wide x 36-1/2" high x 16" deep.
- R3- There shall be a compartment behind the rear wheels approximately 53-1/2" wide x 66" high x 27-1/4" deep. The upper portion of the compartment shall be 16" deep to accommodate ladder storage.

There shall be a compartment located at the top of each body side with lift up doors and pneumatic stays. The compartments shall be approximately 21" wide x 26" high x 162" long. Two (2) lift-up NFPA compliant UPPER HATCH COMPARTMENTS serrated aggressive diamond plate doors shall be provided on each side, with chrome handles. The tops of the compartments shall be constructed of NFPA compliant embossed aggressive diamond plate.

An oil dry hopper will be constructed and located in the rear upper portion of the hatch compartments. The hopper will have a capacity to hold up to 150# of oil dry material. The hopper construction shall be of OIL DRY HOPPER aluminum plate fabricated and solidly welded in a manner to allow the material to flow downward into the delivery pipe. The delivery pipe shall be constructed of 3" PVC and equipped with a PVC flange to provide a maintenance free seal at the bottom of the hopper. The pipe shall be routed through the back corner of the rear compartment. The point of material discharge shall be either in the rear compartment or directly under the rear compartment as directed by the fire department. A 3" PVC sliding type valve shall be provided and located in the rear compartment for controlling the dispensing of the material.

The L1 compartment on the left side of the apparatus shall include the following features: COMPARTIMENT INTERIOR - L1

There shall be an adjustable shelf provided and installed in the compartment. The shelf shall be fabricated of ADJUSTABLE SHELF .188" aluminum plate.

COMPARTMENT INTERIOR - L2

The L2 compartment on the left side of the apparatus shall include the following features:

There shall be an adjustable shelf provided and installed in the compartment. The shelf shall be fabricated of ADJUSTABLE SHELF .188" aluminum plate.

The L3 compartment on the left side of the apparatus shall include the following features: COMPARTMENT INTERIOR - L3

There shall be an adjustable shelf provided and installed in the compartment. The shelf shall be fabricated of ADJUSTABLE SHELF .188" aluminum plate.

There shall be a vertical divider/partition provided in a compartment as specified. The divider shall be constructed of .188" thick smooth aluminum plate. The top and bottom of the divider shall have a formed COMPARTIMENT DIVIDER flange bolted to the interior of the compartment.

There shall be an adjustable vertical slide-out tool board with a 250 lb. capacity supplied and mounted on ADJUSTABLE VERTICAL SLIDE-OUT PANEL unistrut tracks. Extra compartment lights shall be provided and located as needed to properly illuminate the compartment.

There shall be a Slide-Master pullout drawer provided and installed. The drawer shall have a distributed load capacity of 600 lbs. and be capable of extending 70% of its depth. The tray shall be fabricated of .188" 600# SLIDE-MASTER TRAY aluminum plate and have a formed lip that measures 2".

COMPARTMENT INTERIOR - R1

The R1 compartment on the right side of the apparatus shall include the following features:

There shall be an adjustable shelf provided and installed in the compartment. The shelf shall be fabricated of ADJUSTABLE SHELF .188" aluminum plate.

There shall be a Slide-Master pullout drawer provided and installed. The drawer shall have a distributed load capacity of 600 lbs. and be capable of extending 70% of its depth. The tray shall be fabricated of .188" 600# SLIDE-MASTER TRAY aluminum plate and have a formed lip that measures 2".

The R2 compartment on the right side of the apparatus shall include the following features: COMPARTMENT INTERIOR - R2

There shall be an adjustable shelf provided and installed in the compartment. The shelf shall be fabricated of ADJUSTABLE SHELF .188" aluminum plate.

The R3 compartment on the right side of the apparatus shall include the following features: COMPARTMENT INTERIOR - R3

There shall be an adjustable shelf provided and installed in the compartment. The shelf shall be fabricated of ADJUSTABLE SHELF .188" aluminum plate.

600# SLIDE-MASTER TRAY

There shall be a Slide-Master pullout drawer provided and installed. The drawer shall have a distributed load capacity of 600 lbs. and be capable of extending 70% of its depth. The tray shall be fabricated of .188" aluminum plate and have a formed lip that measures 2".

The A1 compartment on the rear of the apparatus shall include the following features: COMPARTMENT INTERIOR - A1

There shall be a Slide-Master pullout drawer provided and installed. The drawer shall have a distributed load capacity of 600 lbs. and be capable of extending 70% of its depth. The tray shall be fabricated of .188" 600# SLIDE-MASTER TRAY aluminum plate and have a formed lip that measures 2".

Each compartment shall come equipped with 1.625" \times .875" \times .125" aluminum Unistrut channel. The Unistrut UNISTRUT shall be securely fastened to the interior walls of the compartment.

The apparatus body shall be equipped with R.O.M Robinson Shutter doors. The door slats shall be double wall box frame, manufactured from anodized aluminum. The doors shall have the following features: ROLL-UP COMPARTMENT DOORS

- Concave individual slat design to prevent loose equipment from hindering door operation. Manufactured wholly in the United States.
- Co-Extruded stretch resistant inner seal between slats to prevent metal-to-metal contact and inhibit
- Interlocking swaged/dimpled end shoes shall be utilized to provide a tight fitting assembly and allow
- One-piece side rail and track to provide an unobstructed slide area and reduce the risk of binding. Effective counter balancing for ease of lifting and lowering the doors. Non-abrasive replaceable water and dust barrier to keep compartment equipment clean and dry.

 Non-abrasive replaceable water and dust barrier to keep compartment equipment clean and dry.
- A magnetic type switch integral to the door shall be supplied for door ajar indication and
- A full width positive latch bar shall be operable with one hand, even with heavy gloves.

A 3M clear protective material shall be provided along the outer edge of the compartment floor to protect A door open indicator light shall be provided in the cab. this area from scratches that could occur when installing or removing equipment from the compartments.

These doors shall be wet painted before assembly by the door manufacturer. The paint shall be the same as the apparatus to achieve an exact match of paint color and have the look and durability the same as on the PAINTED ROLL-UP DOORS rest of the truck.

The rear compartment door shall be equipped with ROM brand roll-up door. The door shall be wet painted before assembly by the door manufacturer. The paint shall be the same as the apparatus to achieve an exact REAR COMPARTMENT DOOR match of paint color and have the look and durability same as on the rest of the truck.

The specified roll-up door(s) shall be equipped with a drip pan with built in splashguard. The drip pan shall attach to the pennant plate with spring pins to allow for easy removal and cleaning. The construction of the ROLL UP DOOR DRIP PAN/SPLASHGUARD pan shall be of a corrosion resistant material. The drip pan shall have a drainage tube that shall route water that collects inside the pan to the exterior of the compartment.

The interior non-painted surface of the compartments shall have a smooth, natural finish. COMPARTMENT INTERIOR FINISH

Each compartment shall be equipped with two (2) white ROM DuroStrip LED light strips which shall provide a COMPARTMENT LIGHTING consistent pattern to illuminate to entire compartment.

Two (2) additional grab rail handles will be provided, one to be located on the rear of each rear coffin ADDITIONAL GRAB RAILS HANDLES

ROM WHITE/RED COMPARTMENT LIGHTS compartment.

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Compartment lights to either red or white controlled by a switch.

The hose bed shall be provided with aluminum slatted flooring radiused at the edges to prevent hose damage from sharp edges. Each hose bed floor section shall be removable for easy access to the water tank. HOSE BED

An aluminum two-piece, hinged hose bed cover constructed of .125" aluminum diamond plate and square HOSE BED COVER aluminum extrusion shall be provided for the main hose bed.

A removable aluminum support bar shall be provided at the rear of the hosebed to support the aluminum HOSEBED SUPPORT hosebed cover.

A vinyl flap shall be provided and installed on the rear of the hose bed to prevent the hose from A villy map alian be provided and margined on the real of the mose bed to the rear of the hose bed. Unintentional deployment. The vinyl flap shall be secured, and fastened to the rear of the hose bed. REAR HOSE BED COVER

The hose bed cover shall be secured with black bungle cords with orange pull tabs. **COVER FASTENERS**

The hose bed shall be divided by five (5) 3/16" aluminum partitions that are fully adjustable by sliding in tracks located at the front and rear of the hose bed. The dividers shall be located as needed. 5 HOSE BED DIVIDERS

TecNiq E44 LED light strips shall be provided on the interior hosebed walls, one each side. SIDE HOSEBED LIGHTING

REFLECTIVE LETTERING, REAR HOSE BED FLAP

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TecNiq E44 LED light strips shall be provided on the interior hosebed walls, one each side. SIDE HOSEBED LIGHTING

Lettering to be = BROOK PARK -Lettering Color to match upper Job Color Blue.

Handrails shall be constructed of type 304 stainless steel 1.25 inch diameter tubing with bright finish and knurled gripping surface. Mounting flanges shall be constructed from 7 gauge, .180 thick, stainless sheet. Each grab rail shall have 90 degree returns to flanges. The ends of grab rail shall pass through the flanges. and be welded to form one structural unit. The handrails, shall be mounted using 1.25" SS Hex bolts, with a BODY HANDRAILS barrier rubber gasket at each flange. Sufficient space shall allow for a gloved hand to firmly grip the rail. The rails shall be located in the following areas:

(Note: These are in addition to those previously mentioned in the cab section):

There shall be one (1) vertical handrail at rear of the body one each side of the rear compartment.

There shall be two (2) handrails mounted horizontally, above the pump panel, one (1) on each side as large as possible.

There shall be up to five (5) Innovative Control fold-down steps with integrated step lights mounted on each side of the front face of body to provide access to the top of the pump module and dunnage area. FRONT BODY STEPS

The quantity and location of steps and handrails shall meet the Current NFPA 1901 pamphlet in effect at the time the apparatus is ordered.

The rear of the body shall be equipped with up to six (6) fixed steps. The bottom step shall measure 14" x 11" to provide a stable footing position. Each additional step above shall measure 14" x 8" for clearance REAR STEPS

The quantity and location of steps and handrails shall meet the Current NFPA 1901 pamphlet in effect at the while climbing. Thinly fabricated aluminum steps shall not be utilized.

time the apparatus is ordered. There shall be a ladder located at the driver's side rear of the apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be apparatus to access the top of the vehicle that the ladder shall be accessed to the l mere shall be a ladder shall be a swing-out, and fold-down type. The ladder shall be constructed of 1/8" forms body. The ladder shall be a swing-out, and fold-down type. REAR ACCESS LADDER

stainless steel and shall be 16.5" wide. Each step shall be 3.25" deep x 16" wide with a perforated non-skid stepping surface. The ladder shall be held in the closed and open positions with two (2) gas struts.

RUB RAILS

The body shall be equipped with anodized aluminum channel style rub rails at the sides. Rub rails shall be The body away from the body by $1/2^n$ polymer spacers. The rub rails shall be polished to a bright finish.

All load bearing aluminum treadplate running boards shall be .155 thick bright-annealed finish. Running boards and rear step edges shall be flanged down for added strength. Running boards shall also be flanged to the formulation of up to form kick plates. All non-load bearing aluminum shall be .125" thick bright annealed finish. In areas ALUMINUM TREADPLATE where aluminum treadplate shall function as a load-bearing surface, there shall be a heavy steel subwhere aluminum treadplate shall runction as a load-pearing surface, there shall be a neavy steel support. This shall assure that structure. This structure shall consist of 3° channel and $1-1/2^{\circ}$ angle welded support. This structure shall consist of 3° channel and 3° there shall be no flexing or cracking of running boards. The aluminum shall be insulated from the steel by closed cell foam body barrier material.

Treadplate locations:

- 1. Skirting around front bumper.
- 2. The step at the cab entrance.
- 3. The jump seat steps.
- 4. The body header.
- 5. The running boards.
- 6. The rear step.
- 7. The top of the compartments.
- 8. The rear of the apparatus.

The rear step/tailboard corners shall form a 90 degree angle, and a cast corner cap with reflective makers REAR STEP CORNERS shall be installed on each corner.

There shall be four (4) spare breathing air cylinder compartments recessed in the rear fender wells, two (2) left and two (2) right. Three of the compartments shall be capable of holding three bottles and the AIR BOTTLE COMPARTMENTS remaining compartment shall be capable of holding one bottle, for a combined total capacity of ten (10) SCBA bottles. The interior compartment shall be constructed of a high-density polyethylene plastic.

A divider shall be provided for two (2) triple SCBA compartments. DIVIDERS

The single or double SCBA compartments shall have a brushed stainless door equipped with a weather resistant flush fitting thumb latch. The interior of the door shall incorporate a rubber seal to keep the DOOR FINISH compartment free of road debris and moisture.

The triple capacity SCBA compartments shall have a brushed stainless door equipped with a weather resistant flush fitting thumb latch. The interior of the door shall incorporate a rubber seal to keep the DOOR FINISH compartment free of road debris and moisture.

The rear side fenders shall be removable aluminum treadplate panels. The wheel liners shall be constructed of pre-formed material to provide a maintenance free, damage resistant surface. FENDER PANELS

The apparatus shall be equipped with the following ladders: LADDER EQUIPMENT

One (1) Duo-Safety Series 900A 24 ft. two-section aluminum extension ladder.

One (1) Duo-Safety Series 775A 14 ft. aluminum roof ladder. One (1) Duo-Safety Series 585A 10 ft. folding attic ladder with mounting.

There shall be a ground ladder storage compartment located behind the right side upper compartments in The ladders shall be individually stored on beam if an area accessible from the rear of the apparatus. The ladders shall be individually stored on beam if an area accessible from the real of the apparatus. The ladder storage compartment shall hold one fiberglass angle slides at the bottom of the compartment. —The ladder storage compartment shall hold one GROUND LADDER STORAGE

(1) 24' 2-section ladder and one (1) 14' roof ladder.

The storage compartment shall be enclosed at the rear by a vertically hinged smooth aluminum door with chevron striping and 1/4-turn T-handle latch. The door shall be tied into the "Compartment Door Open" indicator in the cab by means of a plunger switch. An LED light strip light shall illuminate the interior of the compartment.

A smooth aluminum door shall enclose the ladders at the rear. LADDER CHUTE DOOR

The ladder chute compartment shall be fully enclosed to protect the ladders from road debris. LADDER ENCLOSURE

One trash hook will be stored above the ladders on the left side, a latching door will be provided. Plus 3 New TRASH HOOK / PIPE POLE STORAGE

A 2" receiver shall be provided and mounted directly to the apparatus chassis, extending out of the rear A 2" receiver snall be provided and mounted directly to the apparatus chassis, extending out of the receiver shall be 2" x 2" heavy wall tube and solidly re-enforced. The receiver shall be 2" x 2" heavy wall tube and solidly re-enforced. sides of the body. The receiver shall be 4 x 4 heavy wantube and solidly re-emoticed. The receiver shall be designed for a 2-1 straight pull capacity rated with a maximum capacity of 5,000 lbs. The receiver shall be designed for a 2-1 straight pull capacity. york pike poles RECEIVER (Sides)

A 2" receiver shall be provided and mounted directly to the apparatus chassis, under the body sub frame. (10,000 lbs). Receivers that mount to the body subframe shall not be acceptable. The receiver shall be 2" x 2" heavy wall necesses that mount to the body submaine shall not be acceptable. The receiver shall be 7,000 lbs. The receiver tube and solidly re-enforced. The receiver shall be rated with a maximum capacity of 5,000 lbs. The receiver shall be rated with a maximum capacity of 5,000 lbs. RECEIVER (Rear) shall be designed for a 2-1 straight pull capacity (10,000 lbs).

Sufficient power shall be provided at the receiver for the intent of powering a winch. WIRING

BODY ELECTRIC SYSTEM

Page 96 of 10901

All body electrical wiring in the chassis will be XLP cross link-insulated type. Wiring is to be color-coded and include formula to the chassis will be XLP cross link-insulated type. Wiring is to be color-coded and include formula to the chassis will be XLP cross link-insulated type. include function codes every three (3) inches. Wiring harnesses will be routed in protective, heat resistant loom, securely and neatly installed. Two power distribution centers will be provided in central locations for greater accessibility. The power distribution centers contain automatic thermal self-resetting breakers, power control relays, flashers, diode modules, daytime driving light module, and engine and transmission data links. All breakers and relays are utilized in circuits which amp loads are substantially lower than the respective component rating thus ensuring long component life. Power distribution centers will be composed of a system of interlocking plastic modules for ease in custom construction. The power distribution control of interlocking plastic modules for ease in custom construction. distribution centers are function oriented. The first is to control major truck function and the second control major truck function and labeled to side in the second control major truck function and labeled truck function and labe overhead switching and interior operations. Each module is single function coded and labeled to aid in troubleshooting. The centers also have accessory breakers and relays for future installations, All harnesses and power distribution centers will be electrically tested prior to installation to ensure the highest system

All external harness interfaces will be of a triple seal type connection to ensure a proper connection. The cab/chassis and the chassis/body connection points will be mounted in accessible locations. Complete reliability.

The wiring harness contained on the chassis shall be designed to utilize wires of stranded copper or copper chassis wiring schematics will be supplied with the apparatus.

alloy of a gauge rated to carry 125% of maximum current for which the circuit is protected without alloy of a gauge rated to carry 125% of maximum current for which the circuit is protected. exceeding 10% voltage drop across the circuit. The wiring shall be uniquely identified by color code or circuit. function code, labeled at a minimum of every three (3) inches. The identification of the wiring shall be referenced on a wiring diagram. All wires conform to CAEMARY Institute. Called CAEMARY Institute. referenced on a wiring diagram. All wires conform to SAEJ1127 (Battery Cable), SAEJ1128 (Low Tension

All harnesses shall be covered with moisture resistant loom with a minimum rating of 300 Degrees Primary Cable), SAEJ1560 (Low Tension Thin Wall Primary Cable).

Fahrenheit and a flammability rating of VW-1 as defined in UL62. The covering of jacketed cable has a minimum rating of 289 degree Fahrenheit.

All harnesses are securely installed in areas protected against heat, liquid contaminants and damage. The harness connections and terminations use a method that provides a positive mechanical and electrical connection and are in accordance to the device manufacturer's instructions. No connections within the

harness utilize wire nut, insulation displacement, or insulation piercing.

All circuits conform to SAE1292. All circuits are provided with low voltage over current protective devices. These devices are readily accessible and protected against heat in excess of component rating, mechanical damage, and water spray. Star washers are not used for ground connections.

BACK-UP ALARM

An Ecco model SA917 automatic self-adjusting electronic back-up alarm producing 87-112 db shall be installed at the rear between the frame rails. It shall operate whenever the transmission's reverse gear is selected.

The rear stop/tail/turn/reverse lights shall be Whelen 600 series lights individually installed each side on the rear of the apparatus body. The stop/tail lights shall be LED model 60BTT located in the top position. STOP/TAIL/TURN/REVERSE LIGHTS amber arrow turn signals shall be LED model 60A00TAR located below the stop/tail lights. The reverse lights shall be LED model 60C00WCR (maximum intensity) located below the turn signals.

LED type ICC/marker lights shall be provided to meet D.O.T. requirements. LED ICC/MARKER LIGHTS

The pump module running board area shall be illuminated by Whelen 2G 4" diameter LED lights mounted STEP LIGHTS one each side on the front of the body in chrome flanges.

LED strip lighting or individually mounted lights shall be provided at the rear of the body to illuminate all stepping surfaces based on the body style.

GROUND LIGHTS

- Switched in Cab Overhead Console Position 1 and Main Pump Panel "Day/Night" Red and White ground lights. -Activated when the Brake switch is applied.
- Part Number TUXTLED-4X40 4" Round Dual Revolution Red & White SST Reverse Combo Light.

The optical warning system shall be capable of two separate signaling modes during emergency operations. www.raneystruckparts.com One mode shall signal to drivers and pedestrians that the apparatus is responding to an emergency and is OPTICAL WARNING SYSTEM

calling for the right-of-way and the other mode shall signal that the apparatus is stopped and is blocking the

A momentary rocker switch shall be provided near the driver and labeled Master Emergency to energize all right-of-way.

of the optical warning devices provided. A secondary momentary rocker switch shall be provided near the officer. All lights shall operate at not less than the minimum flash rate per minute as specified by NFPA.

The upper level shall be divided into zones A (front), B (officer's side), C (rear) and D (driver's side). UPPER LEVEL WARNING DEVICES

Zone A (front) shall have one (1) Whelen Freedom IV 81" Model F4N1QLED light bar, with twenty (20) LED modules. The light bar shall have two (2) end red LED modules, four (4) corner red LED modules, twelve (12) forward-facing red LED modules and two (2) forward-facing white LED modules. The light bar shall have all clear outer lenses. The light bar shall be installed on the cab roof as far forward as possible with two (2) MK8H 5" cast aluminum risers.

Zone B (officer's side) shall be covered by the module from the light bar and the rear beacon.

Zone C (rear) shall have two (2) Whelen Model R316*F Rota-Beam LED beacons installed one (1) each side on the upper rear of the apparatus.

Zone D (driver's side) shall be covered by the module from the light bar and the rear beacon.

The lower level shall be divided into zones A (front), B (officer's side), C (rear) and D (driver's side). LOWER LEVEL WARNING DEVICES

Zone A (front) shall have four (4) Whelen 600 series model 60*02F*R Super LED warning lights.

The lights shall be installed two (2) each side on the front of the cab in the warning light housings.

Zone B (officer's side) shall have one (1) Whelen 600 series model 60*02F*R Super LED warning light, one (1) Zune o Jonner's Side, Side, Side, LED warning Led warning light, and one (1) Whelen ION T-Series TLI* Super Whelen 500 series model 50*02F*R Super LED warning light, and one (1)

The lights shall be installed one (1) near the front corner of the apparatus, one (1) near the rear axle, and LED warning light.

Zone C (rear) shall have two (2) Whelen 600 series model 6RB* Rota-Beam LED warning lights installed one one (1) near the rear corner of the apparatus. (1) each side on the lower rear of the apparatus.

Zone D (driver's side) shall have one (1) Whelen 600 series model 60*02F*R Super LED warning light, one (1)

Whelen EOO corios model EO*02E*B Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LONE Series Till Super LED Warning light, and and (1) Whelen LED Warning light, and (1) Whelen LED Warning li Whelen 500 series model 50*02F*R Super LED warning light, and one (1) Whelen ION T-Series TLI* Super

The lights shall be installed one (1) near the front corner of the apparatus, one (1) near the rear axle, and one (1) near the rear corner of the apparatus.

There shall be two (2) additional Whelen 600 series model 60*02F*R Super LED warning lights installed on ADDITIONAL WARNING LIGHTS the apparatus.

There shall be two (2) additional Whelen 600 series model 6RB* Rota-Beam LED warning lights on the ADDITIONAL WARNING LIGHTS

There shall be one LED Roto-Ray warning light mounted on the front of the cab below the windshield. The Roto-Ray shall contain three (3) independent LED lights, one (1) white LED with clear lens and two (2) reductions and the lights about the contract ROW-Ray Sman contain three (3) independent Lettingnis, one (1) write Lett with clear lens and two (2) red.

LED with clear lens. The light shall be mounted in a motorized housing and shall be activated by a switch in the cash. The light shall be wired to the parking brake to departing to when the parking brake to departing the containing brake to depart the containing brake the containing brake to depart the containing brake th apparatus. WARNING LIGHT, ROTO-RAY, LED the cab. The light shall be wired to the parking brake to deactivate when the parking brake has been

One (1) Whelen TAL65.36" LED traffic advisor shall be installed at the rear of the apparatus. The advisor shall be installed at the rear of the apparatus. The advisor shall be installed at the rear of the apparatus. Une (L) where the control had shall be mainted in a location and in the first lead to the first lead t depressed. it from hose couplings. The TACTL5 control head shall be mounted in a location specified by the fire TRAFFIC ADVISOR

department.

ADDITIONAL LIGHTBARS, WHELEN MINI FREEDOM IV 23.25" LED ROTABEAM LIGHT BARS (PAIR).

There shall be (2) additional Whelen Freedom IV 23.25" LED light bars, each with five (5) LED mere snan pe (2) additional wherein freedom to 25.25 LED light pars, each with the (5) LED modules. Each light par shall have one (1) end red LED module, two (2) corner red Rota-Beam modules. Each light par shall have one (1) end red LED modules. mounes, cauring it, var shall have one (1) end red LED modules, two (2) corner red nota-peam modules, and two (2) forward-facing red LED red modules. The light bars shall have all clear outer modules, and two (2) forward-facing red LED red modules. Inouries, and two (4) forward-racing red Led red modules. The light bars shall be installed on the cab roof each with two (2) MK8H 5^{ml} cast aluminum

-Move as far outboard as possible. risers.

SURFACE MOUNTED LED SCENE LIGHT -All Red Lights 9x4 100

One (1) Fire Research Spectra SPA260-Q15 surface mounted LED scene light shall be provided. The light shall be provided. The light shall be provided. The light shall be provided. head shall operate at 12 volts DC, draw 13 amps, and generate 15,000 lumens of light. The light shall be mounted at a fire department specified location and shall be controlled from a switch in the cab.

One (1) Fire Research Spectra SPA530-Q15-SR.LED telescopic scene light shall be provided. The light about he installed shall operate at 12 volts DC, draw 13 amps, and generate 15,000 lumens of light. The light shall be controlled from a start of the department appointed location with stoody Boot better breaker and shall be controlled from a start of the department appointed location with stoody Boot better breaker and shall be controlled. at a fire department specified location with Steady Rest bottom bracket and shall be controlled from a TELESCOPIC SCENE LIGHT switch in the cab.

One (1) Fire Research Spectra SPA900-Q70 surface mounted LED scene light shall be provided. The lamp thead shall operate at 12 volts DC, draw 6 amps, and generate 7,000 lumens of light. The light shall be SURFACE MOUNTED LED SCENE LIGHT mounted at a fire department specified location and shall be controlled from a switch in the cab.

One (1) FireTech 72" 3-piece FT-B-72-ML-3PKIT-* brow mounted LED scene lights shall be provided. The Une (1) Fire rectify 3-piece FI-D-72-WIL-3-KII- brow mounted LED scene ugits shall be provided. The light. The light lamp head shall operate at 12 volts DC, draw 23.8 amps, and generate over 30,000 lumens of light. The light shall be mounted at the front brow of the cab and shall be controlled from a switch in the cab. All custom BROW MOUNTED LED SCENE LIGHT mounting brackets shall be supplied by OEM.

An additional 3-way switch shall be provided per the customer's location. ADDITIONAL 3-WAY SWITCH

-Switched in Overhead Console Position 1 "Front Scene" /"Front Flood" /"Front All". BROW LIGHT SWITCHING

_Black Housing and Bracket.

-Mount as high as possible to accommodate the 360 camera. It is understood that fire apparatus will operate in harsh environments. The Sutphen Corporation has place a formal corrosion reduction program and detailed assembly procedures, designed for reducing al CORROSION REDUCTION POLICY

eliminating the possibility of corrosion. A formal program following the processes as set forth in ASTMB117, and is described below.

The chassis frame rails shall be coated with a high performance, two component, reinforced inorganic zinc rich primer with a proven cathodic protection makeup preferably Cathacoat 302HB. The surface shall be clean and free of all salts, chalk and oils prior to application. Where the primer has been broken during the frame assembly process the area shall be touched up to reestablish the seal. Prior to finish paint a second primer Devran 201 shall be applied. Once the assembly of the frame is complete and the second primer is applied the entire assembly shall be covered with high quality top coat paint preferably Imron 5000 or equal.

Steel and Iron brackets such as the pump module bracket shall be Zinc or cadmium plated to protect against Electro Plating corrosion. Plating shall be in accordance with ASTM B663.

In any area that a stainless steel screw or bolt head is to come in contact with aluminum or steel, painted or non-painted, the fastener shall have the underside of the head pre-coated with nylon. The nylon coating shall act as a barrier between the fastener head and the metal or painted surface.

Screw or bolt taped into the metal shall be pre-coated with a Threadlocker type material pre-applied on the

When bolting together stainless steel the pan-head bolts with nylon coating under the head, a stainless washer with a rubber backing, and a Stover flange nut to secure the bolt, shall be utilized. threads.

When mounting aluminum components such as a step to the apparatus body, stainless steel washers with rubber backing shall be used. All mounted components shall utilize barrier material between the two surfaces.

All rivet or huck type fasteners shall be of the same material being secured.

Whenever possible, holes shall be pre-drilled and taped when mounting components such as lights, steps, and hand rails prior to the paint process to reduce the corrosion opportunity. If a hole must be drilled into a previously painted surface, the paint barrier around the hole shall be re-established and a flange-type nutsert with a gasket under the flange shall be used.

When possible, the use of stainless trim screws shall be minimized. Structural tape and or adhesive shall be used where possible for mounting trim to the body or cab.

If a pre-treated screw or bolt is not available, hand applied Dynatex Boltlocker or Theadlocker shall be placed on the threads of the screw, bolt or nutsert. This will help seal threads from moisture and help prevent the fasteners from loosening. If lubricant is used when tapping the hole, the hole will be cleaned of lubricant and the shavings before applying.

Barrier tape shall be used on the backsides of all lights, trim pieces, or other components when bolting them to the apparatus; also when attaching stainless steel over an aluminum surface or when attaching aluminum treadplate to the stainless steel. All instances of dis-similar metals contacting each other require the

addition of barrier tape between the metals where contact is made. Before applying the tape, all metal surfaces shall be clean from oil or dirt with a 50/50 mix of alcohol and

Gaskets shall be used under all snaps, loops and fasteners for such items as for hose bed covers. The paint water or a similar solvent. seal shall be re-established around the mounting hole edges after drilling.

13/4" \times 1/16" barrier tape shall be used on the frame opening to act as barrier between the aluminum door rail and the painted door opening surface.

Barrier tape shall be applied to the painted surface of the body and on the painted hinge side of the door.

Steel shall be wiped of any oil residue, rust, and weld slag or smoke shall be removed. All surfaces shall be cleaned with solvent, primed, and then sprayed with a topcoat. After bolts are tightened to the proper torque, bolts shall be touched up with primer or cold galvanizing coating.

All emergency lights, accessory mountings, Kussmaul covers, and 110 outlet boxes mounted to the body should be mounted with pre-coated Threadlocker and nylon under the head screws or bolts to minimize corrosion between dissimilar metals.

Grounding straps shall be installed consisting of a minimum 2-gauge strap bolted to the chassis frame.

A ground cable from the cab to the right side frame rail From the alternator to the right side frame rail From the pump module frame to the right side truck frame. Aerials: from the hydraulic and pump module framework.

From the pump mount to the truck frame rail.

Proper grounding will help eliminate grounding problems, and will reduce the possibility for electrolysis and corrosion to occur, as a result of impressed current be presented to the chassis. All electrical connection From the body module to the right side truck frame. points shall be sprayed with electrical sealer as necessary.

All fasteners and coatings have been chosen after extensive salt spray testing. Salt spray tests are used to confirm the relative resistance to corrosion of coated and uncoated metallic specimens, when exposed to a salt spray climate at an elevated temperature. Test specimens are placed in an enclosed chamber and exposed to a continuous indirect spray of neutral (pH 6.5 to 7.2) salt water solution, which falls-out on to the exposed to a continuous muneus spray of neutral type of 1.0 to 2.0 ml/80cm²/hour, in a chamber temperature of 435C., steady state condition. SALT SPRAY TESTING

Salt fog testing is performed by placing samples in a test cabinet that has been designed in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 10 (Conditions) of Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and operated in accordance with Paragraph 4 (Apparatus) of ASTM B117 and Operated B1 B117.

A 5% salt solution, prepared by dissolving sodium chloride into water that meets the requirements of ASTM D1193 Specification for Reagent Water, Type IV is supplied to the chamber. At the time the samples are placed into test, the cabinet is pre-conditioned to the operating temperature of 35°C and fogging a 5% salt

The samples are placed at a 15-30 degree angle from vertical or tested in the "installed" position. This orientation allows the condensation to run down the specimens and minimizes condensation pooling. solution at the specified rate. important aspect of the test is the utilization of a free-falling mist, which uniformly settles on the test samples. This simulates a "real world" condition.

Test durations are 500 hours, and the test cabinet will remain closed for the duration of the test.

All exposed metal surfaces not chrome plated, polished stainless steel or bright aluminum tread plate shall All exposed metal surfaces not chrome placed, poissing standers in painted surfaces shall be rubbed down be thoroughly cleaned and prepared for painting. All irregularities in painted surfaces shall be rubbed down PAINTING

and all seams shall be caulked before the application of the finish coat. All removable items such as brackets, compartment doors, door hinges, trim, etc. shall be removed and

painted separately to insure finish paint behind all mounted items. Body assemblies that cannot be

painted after assembly shall be finish painted before assembly. Both aluminum and steel surfaces to be painted shall be primed with a two (2)-component primer which is compatible with the finish coat. The apparatus shall be finish painted with a polyurethane base/clear system. "No Exception"

A barrier gasket/washer of "High Density Closed Cell Urethane Foam" shall be used behind all lights, handrails, door hardware and any miscellaneous items such as stainless steel snaps, hooks, washers and acorn nuts. The gaskets/washers shall be coated with pressure sensitive acrylic adhesive. All screws used to penetrate painted surfaces shall be pre-treated/coated under the head with nylon and the threads shall have pre-coat #80. This procedure shall be strictly adhered to for corrosion prevention and damage to the finish painted surfaces.

The following paint process shall be utilized:

- 1. Wash surface thoroughly with mild detergent. Surface Preparation:
- 2. Clean and de-grease with Prep-Sol 3812S.
- 4. Remove sanding dust with a cleaner compatible with polyurethane base coat/clear coat final finish. 3. Sand and feather edge using 400 grit or finer on a dual action sander.

1. Use a Metal Conditioner followed with a Conversion Coating product.

- 2. Use a self etching primer applied to achieve a 1.5 mil dft minimum. 1. Use a priming 615S pretreatment. priming:
- 3. Use Prime N Seal sealer compatible with polyurethane base coat.

1. Apply polyurethane base coat 1-2 mil dft minimum. Color Coat:

1. Apply polyurethane clear coat 2 mil dft minimum. Clear coat:

The cab and body shall be two (2) colors. The placement of the paint break shall be determined at the pre-PAINT TWO TONE construction conference.

CAB PAINT BREAK LOCATION

The paint break line shall be at the bottom of the windshield.

PAINTED FRAME

The frame rails and body rear drop shall be painted glossy black.

The area of the frame rails where the pump module shall be located. Shall be applied with a textured coating TEXTURED FRAME RAIL COATING that matches the frame rail color.

AIR CONDITIONING CONDENSER

The air conditioning condenser shall be painted to match the cab roof.

A 1/2" 22KT gold stripe with printed edges stripe shall be provided along the cab paint break.

CHEVRON STRIPING, REAR BODY OUTBOARD, ORAFOL REFLEXITE

The apparatus shall have 6" red and yellow reflective Orafol Reflexite Chevron style striping affixed to the outboard rear body panels. The striping will be set in a manner to have the effect of an inverted "V" shape. The stripe will travel low to high from the outside to the inside.

CHEVRON STRIPING, ABOVE REAR COMPT. DOOR, ORAFOL REFLEXITE

In addition to the outboard rear body panels, the panel above the rear compartment door shall also be covered with 6" red and yellow reflective Orafol Reflexite Chevron style striping.

CHEVRON STRIPING, LADDER CHUTE DOOR, ORAFOL REFLEXITE

The ladder chute door shall have 6" red and yellow reflective Reflexite Chevron style striping affixed to it. The striping will be set in a manner to have the effect of an inverted "V" shape. The stripe will travel low to high from the outside to the inside.

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MISCELLANEOUS EQUIPMENT FURNISHED

A bag of stainless steel nuts and bolts, as used in the construction of the apparatus. 1 pt. touch-up paint

Two (2) Ziamatic #SAC-44 folding wheel chocks with SQCH-44H holders shall be provided. The wheel chocks shall be located in an area close to the rear axles easily accessible from the side of the apparatus. WHEEL CHOCKS

A compartment shall be provided behind the right side upper compartments above the ladder storage PIKE POLE & FOLDING LADDER COMPARTMENT compartment. The compartment shall have three (3) tubes to accommodate standard pike poles and an

A smooth aluminum door with chevron striping and 1/4-turn latch shall enclose the ladders at the rear. enclosed chute for the 10' folding ladder.

One (1) Streamlight® SL-44401 Fire Vulcan® rechargeable handlight with 12 volt charger shall be provided RECHARGEABLE HANDLIGHT and mounted.

Complete "Operation and Service" manuals shall be supplied on two (2) USB flash drives with the completed OPERATION AND SERVICE MANUALS apparatus. Service manual instructions shall include service, maintenance and troubleshooting for major and minor components of the truck. The apparatus manufacturer shall supply part numbers for major components (i.e. Engine, Axles, Transmission, Pump, etc.). A table of contents, hydraulic, air brake and overall apparatus wiring schematics shall be included.

A video demonstration on the operation of the truck shall be supplied on the flash drive.

The customer shall be notified approximately seven (7) days prior to the completion of the apparatus so they APPARATUS COMPLETION may make necessary travel arrangements to pickup the apparatus at the factory.

The apparatus dealer responsible for the sale of the Sutphen apparatus shall perform a pre-delivery inspection of the apparatus prior to the customer taking possession of the vehicle. This inspection allows for DEALER PREP/INSPECTION the dealer to record all applicable part and serial numbers for the apparatus so that service and parts can be easily facilitated during the service life of the vehicle. This inspection also allows for a second quality control check, prior to the apparatus being placed in service.

The following warranties shall be supplied. See warranty documents for complete coverage details of each WARRANTIES

The apparatus shall be warranted to be free from mechanical defects in workmanship for a period of one (1) year. The apparatus shall be covered for parts and labor costs associated with repairs for a period one (1) year.

Life-time warranty on the frame.

Ten (10) year cab structural warranty.

Ten (10) body structural warranty.

Ten (10) year warranty on paint.

The OEM warranties shall be applied for all major components.

The apparatus will be manufactured in facilities wholly owned and operated by the company. A complete the apparatus will be manufactured in racingles wholly owned and operated by the company. A complete stock of service parts, and service shall be provided on a 24 hours around the clock basis. The company shall MANUFACTURING & LOCATIONS maintain parts and service for a minimum period of twenty (20) years on each apparatus model manufactured.

A \$19,000 allowance is included in the bid price for the mounting of loose fire equipment by Sensible SENSIBLE PRODUCT

Once the truck has completed production at Sutphen the fire department will come to Sutphen for final Inspection, acceptance and final payment of the apparatus (qs or); products in Richfield, Ohio.

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Once Sensible Products is complete with their work the fire department will come to pick up the truck from Sensible Products. If the amount spent at Sensible Products exceeds the amount of the allowance the excess portion will be billed directly to the fire department from Sensible Products. If the amount spent at Sensible Products does not meet the amount of the allowance a credit of the difference will be created for the fire department with the dealer. This credit can be used for loose equipment.

WINCH

One (1) Ramsey - QM 8000 winch will be supplied with the engine

INTAKE VALVES

Two (2) Akron Brass Revolution Valves intake will be supplied.

<u>DECKGUN</u>

One Akron Brass Deckgun model 3423 will be supplied

GRAPHICS

One standard engine graphic package will be supplied.

\$50,000 is available for the purchase of equipment and/or changes during the production of the engine EQUIPMENT AND CHANGE ORDER FUND

ing of 109---

mounting shall be attached directly to frame with high strength Huck bolts and self-locking round collars. Progressive rate bump stop and custom tuned passive hydraulic damper shall be supplied. NO EXCEPTIONS.

The steer assist provides driver assistance when turning the vehicle left or right while traveling. STEER ASSIST

Front tires shall be Goodyear 385/65R22.5, load range J, G296 highway tread, single tubeless type with a GAWR of 20,000 pounds. Wheels shall be disc type, hub piloted, 22.5 x 12.25 10 stud 11.25 bolt circle. FRONT TIRES

The rear axle shall be a Meritor™ RS-30-185 Single reduction drive axle with a capacity of 31,000 lbs. The REAR AXLE axles shall be hub piloted, 10 studs, furnished with oil seals.

A Hendrickson FIREMAAX model FMX312 air ride rear suspension shall be provided. The suspension shall be SUSPENSION (REAR) a dual air spring design equipped with dual height control valves to maintain proper ride height. To reduce axle stress and maintain axle position and pinion angle the suspension design shall incorporate three torque rods. The ground rating of the suspension shall be 31,000 pounds.

Rear tires shall be Goodyear 315/80R22.5, load range L, Endurance TSD Mud and Snow tread, dual tubeless REAR TIRES type with a GAWR up to 31,000 pounds. Wheels shall be disc type, hub piloted, 22.5 x 9 10 stud with 11.25" bolt circle.

A Quick Pressure mechanical tire pressure sensor/indicator shall be provided for each wheel. The pressure sensor shall indicate if the tire is properly inflated. Each indicator shall have a green & red display visible TIRE PRESSURE MONITOR inside a sight glass on the sensor. Full green indicates that the pressure is correct. Partial green/red indicates that the tire is under inflated by as little as 10%. Full red indicates that the tire is under inflated by 25% or more. The indicators shall replace the standard valve stem caps. A total of six (6) indicators shall be provided.

The front and rear wheels shall be ALCOA® brand aluminum. DURA-BRIGHT® finish shall be provided on front and outside-rear wheels.

HUB COVERS

Polished stainless steel hub covers shall be provided for the front and rear axle.

LUG NUT CAPS

Chrome plated lug nut caps shall be provided for the front and rear wheels.

FRONT MUD FLAPS

Hard rubber mud flaps shall be provided for front tires.

REAR MUD FLAPS

Hard rubber mud flaps shall be provided for the rear tires.

DATA, SAFETY & WARNING TAGS

All data, safety and warning tags shall be affixed with a commercial grade adhesive.

The front brakes shall be Meritor S-cam style. They shall be 16.5" x 6" with heavy-duty return springs, and a BRAKES, Front double anchor pin design. They shall also have quick-change shoes for fast easy brake relining.

BRAKES, Rear

CITY OF BROOK PARK, OHIO

ORDINANCE NO.	11335-2023
ORDINANCE NO.	anciiTT.

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PROTECT

AN ORDINANCE AUTHORIZING THE MAYOR TO EXECUTE A PROJECT INTRODUCED BY: MAYOR ORCUTT AGREEMENT WITH NORTHEAST OHIO REGIONAL SEWER DISTRICT FOR THE SHELDON ROAD PROFILE RAISING AND BRIDGE REPLACEMENT AND DECLARING AN EMERGENCY

WHEREAS, the City of Brook Park (the "City") and the Northeast Ohio Regional Sewer District (the "District") entered into a Regional Stormwater Management Program Service Agreement dated August 18, 2016 (the "RSMP Service Agreement"); and

WHEREAS, the Sheldon Road Bridge ("the Bridge") has been shown to be hydraulically deficient, causing flooding within Abram Creek; and

WHEREAS, the 100-year Federal Emergency Management Agency (FEMA) flood map and the District's Rocky River Stormwater Master Plan study indicate that the Bridge and Sheldon Road are inundated and impassable during certain rain events; and

WHEREAS, the District's Rocky River Stormwater Master Plan identified stand-

alone problem area "AC00126" in the Abram Creek Subwatershed; and

WHEREAS, the District's Rocky River Stormwater Master Plan study found that the current bridge span needs to be increased to convey the 100-year storm event through the structure without causing properties adjacent to the Bridge, Sheldon Road, and

WHEREAS, the City and the District desire to perform the Sheldon Road Profile Raising & Bridge Replacement Design Project (the "Project"), which includes the upstream of the Bridge to flood; and expansion of the Bridge opening to convey the 100-year storm event with acceptable passable conditions along Sheldon Road, in furtherance of the goals of the District's Regional Stormwater Management Program; and

WHEREAS, the Cities of Brook Park and Middleburg Heights share responsibility for the routine maintenance and repair of Sheldon Road and Sheldon Road Bridge as the municipal jurisdictional boundary serves as the centerline of such Road while Cuyahoga County (the "County") is the owner of the Sheldon Road Bridge; and

BROOK PARK CITY C

WHEREAS, the District has prepared a Project Agreement for the execution of the Project and is included as Attachment "A"; and

WHEREAS, the City agrees to retain a consultant to perform the engineering design for the Project as detailed in the Scope of Services (Exhibit "C" of Attachment "A"), and the District has agreed to disburse funds to the City for reimbursement of engineering design, document development, right-of-way acquisition and utility coordination costs incurred for the Project; and

WHEREAS, the construction costs will be shared among the City of Brook Park, the City of Middleburg Heights, the District, and Cuyahoga County, which will be addressed in a separate agreement; and

NOW THEREFORE, BE IT ORDAINED by the Council of the City of Brook Park,

SECTION 1: The Mayor is hereby authorized and directed to execute on behalf of State of Ohio, that: the City the Project Agreement prepared by the District (Attachment "A").

SECTION 2. Consulting City Engineer (Euthenics, Inc.) is hereby authorized to provide the engineering services for the Project as detailed in the Scope of Services (Exhibit "C" of Attachment "A"). Payment for the services shall be in accordance with the Scope of Services (Exhibit "C" of Attachment "A").

SECTION 3. The money needed for the aforesaid transaction shall be paid from the Sheldon Road Bridge Improvement Project Fund #550 and will be reimbursed by the District in accordance with the Project Agreement and in an amount not to exceed.

SECTION 4: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open \$1,175,945.00. meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 5: This Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health, safety of said City, and authorizing the Mayor to enter into a Project Agreement for the Sheldon Road Profile and authorizing the Mayor to enter into a Project with the District; therefore, provided this Raising & Bridge Replacement Design Project with the District; therefore, provided this Ordinance receives the affirmative vote of at least five (5) members elected to Council, it of the Mayor, and after the earliest period allowed by law.

PASSED:	PRESIDENT OF COUNCIL
	APPROVED:MAYOR
ATTEST: CLERK OF COUNCIL	DATE
•	

HEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTIVESS AND CORRECTIVESS

ORI CHARLANT DIRECTOR OF LAW

Attachment "A"

PROJECT AGREEMENT

BY AND BETWEEN

NORTHEAST OHIO REGIONAL SEWER DISTRICT

AND

CITY OF BROOK PARK

FOR

SHELDON ROAD PROFILE RAISING & BRIDGE REPLACEMENT DESIGN

SHELDUR KOZZ	PROJECT	-£
	c sh	day of
	ent ("Agreement") is entered into as of this entire Date") by and between the Northeast O	hio Regional Sewer
This Project Agreeme	ent ("Agreement") by and between the Northeast O stive Date") by and between the Northeast O hal sewer district organized and existing as a hio Revised Code, pursuant to the authority of	political subdivision
, 2023 CELLEC	district organized and existing	: Board of Trustees
"", a region	ial sewer district of the authority of	Ils Dourant Rrook
District ("District")	hio Revised Code, pulsuant	and the City of Dioces
under Chapter 6119 of the	that sewer district organized and existing as a hal sewer district organized and existing as a hio Revised Code, pursuant to the authority of the Cattached as Exhibit "A"), ted	to Ordinance No
Parabution No, adopt	ted State of Ohio, acting pursuant	(D2)
Resolution 12 a Charter Mu	nicipality of the ball	·B~).
Park ("City"), a Chart	nicipality of the State of Onio, acting r on, 2023 (attached hereto as Exhibit '	
rossed by its City Council C		
passour	TOTALS .	

RECITALS

WHEREAS, the District, pursuant to the authority of Ohio Revised Code Chapter 6119, and Title V Stormwater Management Code of the District's Code of Regulations ("Title V") is authorized to provide overall Stormwater Management of the Regional Stormwater System, including planning, financing, design, improvement, construction, inspection, monitoring, maintenance, operation, and regulation for the proper handling of stormwater runoff and the development and provision of technical support information and services to member communities;

WHEREAS, the City and the District entered into a Regional Stormwater Management Program Service Agreement dated August 18, 2016 (the "RSMP Service Agreement"); and and

WHEREAS, the Sheldon Road Bridge ("the Bridge") has been shown to be hydraulically

WHEREAS, the 100-year Federal Emergency Management Agency (FEMA) flood map deficient, causing flooding within Abram Creek; and and the District's Rocky River Stormwater Master Plan study indicate that the Bridge and Sheldon

Whereas, the District's Rocky River Stormwater Master Plan identified stand alone Road are inundated and impassable; and

problem area "AC00126" in the Abram Creek Subwatershed; and,

WHEREAS, Abram Creek lies within the Rocky River watershed which is part of the Regional Stormwater System (RSS) (District Asset ID: AC00126), as such term is defined in Title

WHEREAS, the District's Rocky River Stormwater Master Plan study found that the current bridge span needs to be increased to convey the 100-year storm event through the structure without causing properties adjacent to the Bridge, Sheldon Road, and upstream of the Bridge to V; and

WHEREAS, the District desires to perform the Sheldon Road Profile Raising & Bridge Replacement Design Project ("the Project" or "the Water Resource Project"), which includes the expansion of the Bridge opening to convey the 100-year storm event with acceptable passable flood; and conditions along Sheldon Road, in furtherance of the goals of the District's Regional Stormwater

WHEREAS, the Cities of Brook Park and Middleburg Heights share responsibility for the routine maintenance and repair of Sheldon Road as the municipal jurisdictional boundary serves Management Program; and as the centerline of such Road while Cuyahoga County ("County") is the owner of and responsible for the maintenance of the Sheldon Road Bridge.

WHEREAS, the City agreed to retain a consultant to perform the engineering design for the Project as detailed in the Scope of Services (Exhibit "C"), and the District has agreed to disburse funds to the City for engineering design costs incurred for the Project, up to an amount not-to-exceed One Million One Hundred Seventy-Five Thousand Nine Hundred and Forty-Five Dollars and 00/100 (\$1,175,945.00). The construction costs will be shared among the City of Brook Park, the City of Middleburg Heights, the District, and the County, which will be addressed

WHEREAS, the District is authorized to enter into this agreement, generally, under Ohio in a separate agreement; and Revised Code Section 6119.09, and specifically, under Ohio Revised Code Section 6119.06(G) to contract with any political subdivision to construct, reconstruct, enlarge, improve, maintain, repair, and operate Water Resource Projects; and under Ohio Revised Code Section 6119.09 to enter into agreements with political subdivisions for the effective cooperative action and safeguarding of the respective interests of the parties for the construction and funding of projects by one or more of the parties; and is authorized under Ohio Revised Code Section 6119.06 (O) to make and enter into all contracts and agreements and execute all instruments necessary or incidental to the performance of its duties and the execution of its powers under Chapter 6119 of the Ohio Revised Code.

NOW, THEREFORE, in consideration of the foregoing and the agreements set forth herein for the continued benefit of the Regional Stormwater System, the parties agree as follows:

<u>CITY OF BROOK PARK</u> SECTION 1.

- 1.1. Performance of the Project. The City shall be responsible for the performance of the Project in accordance with the Scope of Services attached hereto as Exhibit "C", which shall involve the engineering design for the replacement of the Sheldon Road Bridge and raising Sheldon Road to improve stream function and mitigate flooding as described in the in the Rocky River Stormwater Master Plan and in the 1606 Sheldon Road Profile Raising and Reconstruction Study (Exhibit "D").
 - 1.1.1. Hydraulic Analysis of regional Stormwater System. The City shall perform a hydraulic analysis of the Regional Stormwater System within the Project area to confirm the benefits of the Project to the Regional Stormwater System and provide the hydraulic analysis to the District. If the hydraulic analysis determines that the installation of the Project does not eliminate flooding and/or road inundation up to a 50-year event the District will not be obligated to contribute funds toward the 3

- design or construction of the Project. The City shall provide the District with all final models or model updates developed for the Project.
- 1.1.2. <u>Design</u>. The City shall perform all design and develop the plans, specifications and bid documents as described in the Scope of Services, attached as Exhibit "C". The City shall include the District in the design process as further outlined in this agreement.
 - 1.1.3. Provision of Data. The City shall provide the District any data collected in furtherance of its performance of the Project.
 - 1.1.4. Right-of Way Acquisition & Utilities Coordination. The City shall perform the acquisition of all the properties and easements as necessary for the construction and maintenance of the Project and will coordinate with all utility companies in finalizing the plans and specifications.
 - 1.1.4.1. The City shall be responsible for negotiating with and compensating the property owners for the acquisition of all easements and other real estate interests necessary for the Project. The District shall compensate the City the total amount of such real estate acquisitions based upon documentation demonstrating such amount, including but not limited to documents and jury awards. The City shall seek written approval from settlements and jury awards. The City shall seek written approval from the District for the acquisition of any real estate interest exceeding 10% of the appraised value, as such appraisal is performed by an appraiser with a State of Ohio Certified General Appraiser License and the Appraisal Institute's MAI designation.
 - 1.1.4.2. Subject to approval by the Brook Park Planning Commission and City Council, the City agrees to donate to the Project all real estate interests, including, but not limited to, temporary and permanent highway easements, located on City-owned property, in accordance with the right-of-way plans prepared for the Project. Where necessary, the City shall

prepare and record dedication plats with the Cuyahoga County Fiscal

Office.

The City shall coordinate with the City of Middleburg Heights to acquire at no cost all real estate interests including, but not limited to, temporary and permanent highway easements, located on the City of Middleburg and permanent property, in accordance with the right-of-way plans Heights-owned property, in accordance with the City shall work with the prepared for the Project. Where necessary, the City shall work with the City of Middleburg Heights to prepare and record dedication plats with the Cuyahoga County Fiscal Office.

- 1.1.5. Compliance with Laws and Regulations. The City shall comply with all applicable local, state, and federal laws, rules, regulations, and requirements in performing the Project. The City shall apply for and obtain any permits necessary to comply with the above.
 - 1.1.6. Plan approval. The City shall obtain approval of the final plans and specifications from Cuyahoga County, Department of Public Works and the District.
 - 1.1.7. Project Coordination. The City shall coordinate with the District's representatives during all critical stages and milestones of the design to allow sufficient time for the District to review and provide comments related to the design documents. The City shall obtain final approval for the plans.
 - 1.1.8. Modifications to Project Components. The City shall submit written requests for District approval to modify the budget, deadline(s), deliverables, or other components of the Project to the District at least five (5) business days prior to the desired date of execution of such modification.
 - 1.1.9. <u>Disbursement Requests</u>. The City shall provide requests for disbursement to the District no more than monthly in accordance with the disbursement procedure outlined in Section 1.1.10 below. All disbursement requests must include the Payment Request Accuracy Verification and Progress Report (Exhibit "E").

- 1.1.10. <u>Utilization of District Funds</u>. The City shall use 100% of the District Funds for activities and/or expenses related to the regional stormwater functions of the Project, as approved by the District. Any other use of District-provided funding shall require prior written approval by the District.
 - 1.1.10.1. Application for Payment of Funds. The City must submit consultant invoices to the District monthly or such other timing as mutually agreed by the City and the District, prior to payment for any costs incurred by the City related to design, property acquisition, along with the consultant's detailed invoicing detailing the Project costs that are eligible for District payment. Any such consultant invoice submitted by the City to the District for payment shall include cost and work details and other information in accordance with this Agreement, and shall also include a signed, then-current PRAV document. The PRAV may be include a signed, then-current procurement document(s), including the relevant PRAV shall include supporting document(s), including the relevant procurement documentation, such as an itemized bill, receipt, invoice, and/or timecard.
 - 1.1.10.2. The City understands, and agrees, that the PRAV document may only be signed by a duly authorized representative of the City and that signature of the PRAV by such representative shall be an affirmative representation of the City that the City has verified the accuracy of the consultant invoice, that the consultant's services were furnished and performed in accordance with the conditions of the contract for the work and performed to the satisfaction of the City, that the consultant invoice is not in dispute by either the City or its consultant, that the City's consultant as expeditiously as possible and consistent with City's consultant as expeditiously as possible and consistent with the District and policies following receipt of approved funds from the District and within the time period prescribed in City's contract with the consultant are provided any late fees or other penalties for late payment. The District

agrees that the signatory to this Agreement may, by designation, authorize an appropriate City staff member to execute the PRAV on behalf of the City.

- 1.1.10.3. The PRAV form is submitted to the District and reviewed for completeness by the District. Provided that such any undisputed consultant invoice is accompanied by a complete and duly executed consultant invoice is accompanied by a complete and this PRAV and is otherwise compliant with District requirements and this Agreement, upon District review and approval by the District's Director Agreement, upon District review and approval by the District's Director directly to City within forty-five (45) days of receipt. The absence of directly to City within forty-five (45) days of receipt. The absence of written inquiry or objection of an invoice within the 45-day period shall written inquiry or objection of an invoice by the District. Notwithstanding not be deemed approval of the invoice by the District shall not pay any anything to the contrary in this Agreement, the District shall not pay any anything to the contrary in this Agreement, the District shall not pay any satisfactory, which acceptance shall not be unreasonably withheld, as satisfactory, which acceptance shall not be unreasonably withheld, conditioned or delayed.
 - 1.1.10.4. All invoicing shall be in accordance with an agreed-upon format between the District and the City. The District shall not be responsible for payment of any late fees and/or other penalties invoiced by consultants. The City shall submit proof of payment to its consultant within forty-five (45) days of the District's payment to the City. Should within forty-five (45) days, the District the City fail to submit such proof within forty-five (45) days, the District shall have the right to withhold future payment(s) to the City until such time that the City provides proof of payment of District approved funds to the consultant, and any failure of the City to comply with the material payment requirements in this Agreement may be considered a material breach of this Agreement and be cause for termination of the Agreement. In addition to any other remedies available to the District.

- 1.1.10.5. All requests for payment of District Funds for project management and design services shall be documented to the District in reasonable satisfaction based on the agreed-upon scope and fee for the design services.
 - 1.1.10.6. All requests for payment of District Funds shall be documented to the District in reasonable satisfaction. All requests shall be submitted in a form sufficient to allow the District to review, inspect and approve the services provided for the Project.
 - 1.1.10.7. The City shall keep all records and documents relevant to the Project, including but not limited to, an accurate, current, and complete accounting of all financial transactions for the Project. Such records and documents shall be available at reasonable times and places for documents shall be available at reasonable times and places for inspection and copying by the District or any authorized representative thereof and will be submitted upon request together with any other compliance information which may be reasonably required.
 - 1.1.10.8. The City shall bear the risk and remain solely responsible for any payments made by the City to third parties for work not approved by the District
 - 1.1.11. Prevailing Wages. The City shall be responsible for determining whether the specifications and the bid documents include the payment of prevailing wages, as set forth in Chapter 4115 of the Ohio Revised Code, are required for labor used in constructing the Project, and shall ensure compliance with any prevailing wage requirements in said Chapter.
 - 1.1.12. <u>Project Schedule</u>. The City shall complete the Project in accordance with a Project schedule developed by the City and approved by the District.
- 1.2. Warranty Period. The specifications and the bid documents shall require the contractor to provide a one (1) year warranty period that commences upon substantial completion of the Project construction ("Warranty Period"). The warranty period shall comply

with the requirements of the County's Department of Public Works. At the completion of the warranty period, the City shall provide the District with a final warranty inspection report including how all warranty items were addressed.

- 1.3. Public Participation, Outreach, and Signage. The City shall acknowledge the District in presentations or publications related to the Project. The City shall lead, and the District will assist, the development of a public notification plan to inform the public of the Project. The City shall acknowledge the District on Project-related public outreach communications and in City public meetings that discuss the Project. The City shall provide the District no less than fifteen (15) days' notice prior to any public meetings relative to the Project.
- 1.4. Access. The City hereby grants the District access to the public rights-of-way, and shall grant any necessary easements and/or other rights of entry to the District for access to the Project for stormwater inspection and maintenance in accordance with the RSMP Service Agreement.

SECTION 2. NORTHEAST OHIO REGIONAL SEWER DISTRICT

2.1. <u>Disbursement of District Funds</u>. The District agrees to compensate the City one hundred percent (100%) of the City's actual costs associated with engineering design, document development, right-of-way acquisition and utility coordination for the Project in a total amount not-to-exceed \$1,175,945.00 (the "District Funds). The District shall compensate the City after receipt of documentation to the District's reasonable satisfaction and submitted in a form sufficient to allow the District to review, inspect and approve the City's invoices.

For the avoidance of doubt, the amount of District Funds described above includes all real estate acquisition costs, appropriation costs, as well as the estimated cost of the permanent and temporary easements that the City will pay to the private property owners for acquiring the property rights necessary to construct the Project in accordance with this Agreement.

In the event that the initial amount of District Funds authorized hereunder is insufficient to fully compensate the City up to one hundred percent (100%) of the City's actual costs associated with the engineering design, right-of-way acquisition and utility coordination for the Project, the District and the City shall discuss in good faith whether additional District funds will be added to this Agreement through an Agreement amendment. The District's disbursement of the Project costs shall be conditioned on the District's approval of the deliverables as outlined below.

- Deliverables. All deliverables included in Exhibit "C" shall also be provided to the District as well as the hydraulic models in native format. 2.2.
- Meeting Participation. The District shall have the right to attend all Project progress meetings, for which the District will receive at least two (2) working days' advance. notice. The District shall receive the meeting minutes from each meeting from the City 2.3. within ten (10) working days of the meeting for review and comment.
 - Project Presentations. The District shall acknowledge the City in presentations or publications related to the Project. 2.4.

SECTION 3.

Expiration of Agreement, This Agreement shall expire upon successful completion of the obligations contained herein. 3.1.

SECTION 4.

- Execution in Counterparts. This Agreement may be executed in any number of counterparts. Each counterpart, when so executed, shall be deemed to be an original and all of which together shall constitute one and the same Agreement. 4.1.
 - Severability. If any term or provision of this Agreement is determined to be illegal, unenforceable, or invalid, in whole or in part for any reason, such provision shall be stricken from this Agreement and such provision shall not affect the validity of the 4.2. remainder of this Agreement.

- 4.3. <u>Heading.</u> The headings in this Agreement are included for convenience only and shall neither affect the construction nor the interpretation of any provision in this Agreement.
- 4.4. Governing Law. The terms and provisions of this Agreement shall be construed under and governed by the laws of Ohio (to which all Parties hereto consent to venue and jurisdiction).
- 4.5. Remedies. The Parties agree that, after exhausting the dispute resolution process outlined above, all claims, counterclaims, disputes and other matters in question between the Parties arising out of or relating to this Agreement, or the breach thereof, will be decided at law.
 - 4.6. <u>Disclaimer of Joint Venture</u>. This Agreement is not intended to create a joint venture, partnership or agency relationship between the Parties, and such joint venture, partnership, or agency relationship is specifically hereby disclaimed.
 - 4.7. No Third-Party Beneficiaries. Nothing in this Agreement, express or implied, is intended to or shall confer upon any person other than the parties hereto, any legal or equitable right, benefit, or remedy of any nature under or by reason of this Agreement.
 - 4.8. <u>Authority to Execute</u>. Each person executing this Agreement represents and warrants that it is duly authorized to execute this Agreement by the party on whose behalf it is so executing.
 - 4.9. <u>Modification of Agreement</u>. This Agreement may only be modified by written instrument executed by each party.
 - 4.10. Merger Clause. This Agreement, along with any exhibits attached hereto, encompasses the entire agreement of the parties, and supersedes all previous understandings and agreements between the parties, whether oral or written.
 - 4.11. Relationship of Agreement to Exhibits. The Exhibits attached to this Agreement are incorporated into and made part of this Agreement though expressly rewritten herein. In the event of a conflict between the provisions of this Agreement and the Exhibits, these documents shall be given priority in the following order: 1) the District's

Resolution; 2) the main body of this Agreement; 3) the Scope of Services; 4) 1606 Sheldon Road Profile Raising and Reconstruction Study; 5) Payment Request Accuracy Verification and Progress Report; and 6) the City's Ordinance.

Exhibit "A" - District's Resolution

Exhibit "B" - City's Ordinance

Exhibit "D" - 1606 Sheldon Road Profile Raising and Reconstruction Study Exhibit "C" - Scope of Services

Exhibit "E" - Payment Request Accuracy Verification and Progress Report

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

- 4. Status updates Written project status updates must be submitted a minimum of once per month. These short memo type updates should include percent complete for each task; key task activities performed over the period; budget, scope, or scheduling issues; key activities to be performed over the next period and upcoming milestone dates.
- 5. Deliverables: Project schedule and Status updates.

<u>Task 2: Preparation of Legal Instruments and Title Work Preparation of Legal Instruments:</u>

The Consultant and/or subconsultants will be responsible for preparing all instruments and forms necessary for the acquisition of the parcel, including deeds, easements, contracts, letters, agreements and all other forms required. ODOT Real Estate LPA Forms will be utilized, unless otherwise authorized by the City of Brook Park's and CCDPW's representative. If other documents are to be used, they will be provided by the City of Brook Park and CCDPW and transmitted electronically to the consultant.

- These items are required for the preparation of the legal instrument: 1. Current owner(s) name and marital status including nka and aka per the current title report
- 2. Auditor's parcel number listing all parcels in the area to be acquired
- Volume and page of the instrument through which the grantor claims title
- 4. Surveyor statement and number

Title Work: Our ODOT Prequalified team will search the public records concerning the titles to the highway parcels of such real estate in a form acceptable and will comply with the ODOT policy and procedures as set forth in the Office of Real Estate's Policy and Procedures Manual. All notes and reports are to be type written. Our team will submit a written report as to each parcel by the agreed upon due date. In addition, each report will include, to the extent that such information can be ascertained from a search of the public records relating to the title of said real estate, the following factual information:

- 1. The name, address, telephone number and marital status of all record holders or holders of title, including partnerships. The marital status of each owner in the chain shall be included.
- 2. The recorded deed description of the land or parcels of land which make up an owner's property which are used as a unit with the land taken for highway purposes, together with the recording reference and dates thereof, and any transfers for the period of time established at the task scoping
- 3. The names and address of the owners of any encumbrances upon, or interest in, the real estate, such as mortgages, land contracts, leases, easements, rights of way, mineral rights or reservations, etc.
- 4. Unsatisfied executions and living judgments, foreign or domestic, or pending suits of record in the courts of record, or on file in the Sheriff's Office or the Clerk of Courts Office of said county, which
- 5. Any other tax liens, mechanic liens, recognizance, Division of Aid for Aged Liens, or any other infirmity, encumbrance, lien, or cloud on title disclosed by the public records of said county, including all tax
- 6. The tax description, Auditor's parcel number, and current tax valuation, including statement of taxes, assessment liens, penalties, and interest, which have not been paid and are a lien.
- 7. Copy of the Auditor's Card.
- 8. Copy of the Tax Map
- Copy of the root deed for full title reports.
- 10. Deliverables: Legal instruments required for acquisition; Title Report

Consultant will be responsible for all activities related to establishing the current fair market value of the property, utilizing whatever format and approach is appropriate to arrive at an opinion of value for the parcel to be acquired. Consultant will be responsible for all appraisal activities. All valuation activities will be done in accordance with Title III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act, USPAP and ODOT Real Estate Manual Section 4000 etc. seq. The appraisal format to be used for each parcel will be in accordance with the schedule of appraisal. Appraisal Revisions are defined as changes made to previously prepared appraisals to reflect a change in the facts of a parcel (plan changes or incorrect deed descriptions, etc.).

1. Deliverables: Appraisal Reports

Consultant will perform all work necessary to negotiate with all affected landowners having an interest in the property to be acquired. If conditions merit it may be necessary to ask the Client Representative to Task 4: Acquisition (Negotiations and Closing): be involved with this process as a property owner may request a meeting with either the City and/or Design Engineer/Surveyor. Consultant will be responsible for all acquisition activities. All acquisition activities shall be done in accordance with Title III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act (Uniform Act), Section 163 of the Ohio Revised Code and Sections 5100-5700 of the ODOT Real Estate Manual. In addition:

- 2. The Consultant shall give a copy of the offer letter, plan summary letter and approved appraisal or 1. All negotiator notes and reports shall be type written. the Value Analysis, to the property owner(s) when making the initial offer to the owner(s).
- 3. The Consultant during the initial meeting with the owner(s) shall: Reference the date of the meeting on the Negotiation Report (RE-60); Present the brochure "When ODOT Needs Your Property," and/or a prepared brochure provided by the CCDPW; Verify the accuracy of the Title Report, especially ownership issues; Explain the right of way and construction plans to the owner(s); Explain the appraisal process; Explain the offer of the Fair Market Value Estimate (FMVE); Explain the property owner's appropriation rights; Explain real property tax procedures; If appropriate, explain structure retention. Document the owner's questions, issues and concerns.

 - 4. If appropriate, provide these negotiation services jointly with the relocation offer. Consultant will ensure that the signed instruments are signed exactly as the names appear to include any applicable nka or aka name of the owner(s) on the instrument and that the forms are properly
 - 6. Consultant will obtain a signed IRS form W-9 from each property owner listed on the most recent title
 - 7. Retention values for structures or any other items will be prepared by our team (unless otherwise
 - Consultant will inform the property owner of the need for Lien releases and assist the owners with obtaining these items. All costs (Lender Processing fee, surveyor requirements, etc...) to the owner for obtaining such releases will be paid by the City of Brook Park. The City of Brook Park will be

Preparation of Individual Parcel Files: Consultant will be responsible for the assemblage and maintenance of acquisition files. Upon the close out for the project the original files and an electronic copy will be provided to the Client.

Billing Packages: Consultant will submit the billing package i.e., signed parcels, appropriations, or Relocation Assistance payments, to the City of Brook Park for review and processing. All billing requests will be reviewed, and Warrants/Checks will be processed by the City of Brook Park's personnel. In the case of signed parcels, the warrant/checks will be mailed to Euthenics for further processing (closing, etc.). Warrants/Checks will be issued for the agreed upon settlement for the property owner, a separate Warranty for Closing Recording and Conveyance Fees as listed on the Warrant/check Request to process this transaction with the County. In the case of appropriations, the warrant/check will be sent to the Client's Legal Representative to be placed on deposit with the Court. Consultant will utilize approved ODOT LPA forms when performing all right of way functions contained in this scope, excepted as indicated

Closing: All closing activities are the responsibility of the Consultant. Closing activities include to: by the Client.

- 1. Conduct closings, disbursing and collecting monies as required; Assist the property owner in the
- Secure the necessary approvals from required local agencies to permit the transfer of ownership property rights in the county auditor's office. Record the instruments and releases with the county
- Title updates required for closing are part of the closing. They will not be considered a separate pay
- 4. After the completion of the closing process consultant will prepare a packet for each right of way parcel and will forward it to the Client upon project close,

Project Certification: The final work product may need to be certified as clear in conformance with ODOT policies and procedures, the Ohio Administrative Code, the Ohio Revised Code, Uniform Standards for Professional Appraisal Practices (USPAP), the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 as amended (the Uniform Act), and all other local, state and federal laws, policies, ordinances or regulations.

This phase will include monthly project oversight, subconsultant management/review, invoicing, Phase I - Project Management (Lump Sum) meetings, and coordination with CCDPW. We will plan on attending up to five (5) meetings for this project with the County at their Cleveland office. Attendance at the meetings will be Project Manager, Lead Bridge Engineer and Lead Roadway Engineer. We will prepare the meeting minutes for distribution and review. The following are the anticipated meetings:

- 1. Kickoff Meeting
- 2. Stage 1 Review Meeting
- 3. Utility Coordination Meeting
- 4. Stage 2/3 Review Meeting
- Conformance Plans Review Meeting

Phase J - If Authorized Additional Services (Cost Plus Net Fee)

This task includes if-authorized unforeseen tasks falling outside of the agreement scope of services.

Provide assistance to the County during the bidding phase as directed, including attendance at the pre-Phase K - Pre-Bid Services (Cost Plus Net Fee) bid meeting (if any), assistance in answering contractor questions, and the assessment of the need for addenda.

Phase L-If Authorized Construction Consultation (Cost plus Net Fee)

This task includes the construction services for the project. This work will include responding to pre-bid questions, attendance at the pre-construction meeting, responding to RFI's, reviewing contractor shop drawings and other submittals, and site visits if necessary. This task does not include construction administration and inspection, which will be by others.

Phase M - OEPA Project Summary (Cost plus Net Fee)

A Project Summary will be prepared and submitted to the OEPA following the construction activities of the proposed water utility relocation. This submission shall provide an updated distribution map (or plan location map depending on stakeholder involvement) and summarize the extent of water utility replacement as well as identifying any unusual conditions encountered during construction.

For each phase of the project, Euthenics will submit a PDF file of the plans and associated deliverables to SUBMITTALS AND REVIEWS: the CCDPW for a brief initial review of its contents and a determination of its completeness. Following the initial review and any resulting modifications or revisions, the consultant shall submit an updated PDF file of the accepted deliverables to the CCDPW for formal review. The consultant shall also submit electronic review materials to the City of Brook Park, the City of Middleburg Heights, the Northeast Ohio Regional Sewer District, and all utilities. Paper copies of the submittal items will be provided to the stakeholders and review agencies if hard copies are requested. The consultant shall schedule and coordinate the reviews and collect comments in accordance with the agreed upon Project Work Schedule.

Euthenics will submit monthly invoices as the work progresses. The maximum compensation paid for by the City of Brook Park and NEORSD shall not exceed the following percentages of the total compensation: PAYMENTS

- Upon approval by the City of Brook Park and NEORSD of the H&H Report: 25%
- Upon approval by the City of Brook Park and NEORSD of the Stage 1 Plans: 65%
- Upon approval by the City of Brook Park and NEORSD of the Stage 2/3 Plans: 90%
- Upon approval by the City of Brook Park and NEORSD of the Final Construction Plans: 98%
- Upon completion of all services including R/W Acquisition and Construction Services: 100%

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The updated Project Work Schedule is attached to the proposal as an exhibit. SCHEDULE:

AASHTO - American Association of State Highway & Transportation Officials ABBREVIATIONS:

AC(B)M - Asbestos Containing (Building) Material

AER - Alternatives Evaluation Report

BDM - Bridge Design Manual

BMP - Best Management Practice

CA(D)D - Computer Aided (Design and) Drafting

CCDPW - Cuyahoga County Department of Public Works

CE - Categorical Exclusion

CMP - Cleveland Metroparks

CMS - Construction and Material Specifications

c.R. - County Route

CWA - Clean Water Act

CWD - Cleveland Water Department

DTM - Digital Terrain Model

ESA - Environmental Site Assessment

FEMA - Federal Emergency Management Agency

FHWA - Federal Highway Administration

GER - Geotechnical Engineering Report

H&H - Hydrology and Hydraulics

L&D - Location and Design

L.F. - Left Forward

LFD - Load Factor Design

LRFD - Load and Resistance Factor Design

LWCF - Land and Water Conservation Fund

MBE - Minority Business Enterprise

MOT - Maintenance of Traffic

NAD 83 - North American Datum of 1983

NAVD 88 - North American Vertical Datum 0f 1988

NEORSD - Northeast Ohio Regional Sewer District

NEPA - National Environmental Protection Act

NESHAP - National Emission Standards for Hazardous Air Pollutants

ODNR - Ohio Department of Natural Resources

ODOT - Ohio Department of Transportation

OEPA - Ohio Environmental Protection Agency

OES - Office of Environmental Services

OGPUPS - Oil and Gas Producers Underground Protection Service

OHWM - Ordinary High Water Mark

OMUTCD - Ohio Manual of Uniform Traffic Control Devices

OUPS - Ohio Utilities Protection Service

PDP - Project Development Process

PE - Preliminary Engineering

PWS - Project Work Schedule

R.F. - Right Forward

R/W - Right-of-Way

SBE - Small Business Enterprise

SFN - Structure File Number

STS - Structure Type Study

SUL - Subsurface Utility Locating

USACE - U.S. Army Corps of Engineers

USGS - U.S. Geologic Survey

WBE - Women Business Enterprise

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EXHIBIT D



STORMWATER GES 2 – TASK ORDER #13

1606 SHELDON ROAD PROFILE RAISING AND

RECONSTRUCTION – SCHEMATIC PLANNING LEVEL STUDY

Final Pre-Design Basis of Design Report

Exhibit on file in the Brook Park City Council Office

EXHIBIT E



Regional Stormwater Management Program Project PAYMENT REQUEST ACCURACY VERIFICATION AND PROGRESS REPORT

roject Information	
Project Partner:	
Project Title:	
Authorized Signature Pursuant to the terms of the Agreement between the Project Partner and the Northeast Ohio Regional Sewer District (the "District") for the above-referenced Project, I am the duly authorized representative of the Project Partner with respect to said Agreement and related consultant invoices/contractor pay/draw applications. I hereby verify that the consultant invoice/contractor pay/draw application attached hereto from consultant/contractor is accurate, that the consultant's/contractor's materials and/or services reflected the consultant invoice/contractor pay/draw application was furnished and performed in accordance we the consultant invoice/contractor pay/draw application is not in dispute by the consultant/contractor of the conditions of the contract for the work and is to the satisfaction of the Project Partner, that I recommend payment of same, and that information contained therein is true a consultant invoice/contractor pay/draw application is not in dispute by the consultant/contractor reproject Partner, that I recommend payment of same, and that information contained therein is true a correct to the best of my knowledge. I also confirm that the Project Partner shall pay the consultant/contractor such District-approved amo distributed to the Project Partner as expeditiously as possible following receipt of funds from the Dist and within the time period prescribed in the Project Partner's contract with the contractor/consultant avoid any late fees or other penalties for late payment. Further, I confirm that all information included in the Progress Report is verified and accurate.	d in ith he nd unt
Name (print or type):	
Title:	
Telephone Number:	, ·
Email Address:	
Signature:	ala estato
Date:	



Provide a summary of the accomplishments with respect to objectives, degree of completion based on the Project application, and any problems encountered. Progress Reports must be submitted with all payment requests.

1) Summarize progress and/or accomplishments during this reporting period as related to your project implementation schedule. (500 word maximum)



2) Difficulties and delays encountered during this reporting period. (500 word maximum)

Regional Sewer District Northeast Ohio **夏夏**夏

Project Expenditures

payment Request Form

cord all expenses and attach relevant procurement documentation, such as an itemized bill, receipt, invoice, time card and/or other ocumentation to substantiate purchase and compensation as deemed acceptable by the District. Attach all documentation in the der presented on the Project Expenditures form. Combine all requested items into one complete document for submission.

	THE R. L.	Total Fayment	Wednesd						
		Total Invoice	Amount						
der presentea on the figure of the second and the s	ll reports, requests, and inquiries should be submitted to: Inda Mayer, Grant Programs Administrator II, mayerl@neorsd.org		VENDOR						
der presentet	ll reports, requé nda Mayer, Gro		Invoice Date				,		

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ORDINANCE NO: 4336-2023

INTRODUCED BY: MAYOR ORCUTT

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AMENDING ORDINANCE 11233-2021, WHICH AUTHORIZED THE MAYOR TO ENTER INTO A CONTRACT WITH CONSTRUCTION RESOURCES, INC. TO PREPARE DETAIL DRAWINGS, SPECIFICATIONS, AND BID PACKAGES FOR THE AND DECLARING AN EMERGENCY

prepared comprehensive study of the natatorium's roof and walls, which are

WHEREAS; this Council found that design services are needed to prepare the necessary detail drawings and construction documents in need of repair; and prepare the necessary detail drawings and construction documents for the exterior envelope and to assist with preparing the ror the exterior envelope and to assist with preparing the specifications for the bid packages for the repairs to the natatorium; the services proposed are attached and incorporated as

WHEREAS, this Council further finds that a roof study is needed for the overall City Hall building and shall retain needed for the overall only nail bulluing and shall recalf Construction Resources, Inc. for said study as proposed in Exhibit Exhibit "A";

WHEREAS, Construction Resources is updating the current plans for the natatorium's roof and walls, a fee of \$4,000.00 has been proposed in addition to the existing \$171,600.00, bringing the "B"; and total to \$175,600.00, as proposed in Exhibit "C".

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of

SECTION 1: The Council for the City of Brook Park authorizes Brook Park, State of Ohio, that: the Mayor to enter into an agreement with Construction Resources, The for the design services proposed in Exhibits "A", "B" and μC_{ll} .

The money needed for the aforesaid transaction SECTION 2:

APR % 7 2023

shall be paid from fund 401, and shall not exceed \$175,600.00.

It is found and determined that all formal. actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section

This Ordinance is hereby declared to be an 121.22 of the Ohio Revised Code. emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare, and to amend ordinance 11233-2021; therefore, provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

ageD:	PRESIDENT OF COUNCIL
PASSED:	APPROVED: MAYOR
ATTEST: Clerk of Council	DATE

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THE INC.	PROPUSITING SERVICES FOR CONSULTING SERVICES
ONSTRUCTION RESOURCES, INC.	
ONSTRUCTION	Page No. 1 of 9 Faus
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ende i Ellott	LOCATION: Natatorium
Recreation Director Recreation Park	LOCATION: NO. 493-1545 DATE: 11/8/21
Recreation Plank City of Brock Park	PHONE: (216) 455.
City of Brook 1 17400 Holland Road 17400 Holland Road	L 7 15
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We will prepare a draft package of full specifications a recommendations made in our recent study report. So we will provide a listing of qualified contractors that so we will provide a listing of qualified contractors that so we will provide a listing of qualified contractors that so we will provide a listing to answer appropriate to present at the prebid meeting to answer appropriate to the will assist in reviewing the bids that are submitted to accept.	turco of this proposal
We will assist in the bid to accept	and days from acceptance of the same
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ACCEPTANCE OF PROPOSAL — The prices, specifications are workes specified. Payment will be made as outlined above workes specified. Payment will be made as outlined above.	NOTE: This proposal may be within 10 days. If conditions are satisfactory and are hereby accepted. You are authorized to do the
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signature	
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CONSTRUCTION RESOURCES, INC. 33900 Station Street Solon, OH 44:139 (440) 248-9800 Fex (440) 248-9989

To Mr. Mark J. Elliott Recreation Director

City of Brook Park

exhibit

PROPOSA

FOR CONSULTING SERVICES

Page No.4 of 1 Page

SERVICE ROOF STUDY

BUILDING: City Hall overall building

PHONE: (216) 433-1545

DATE: 11/15/21

17400 Holland Road vve hereby submit me rollowing outline for consulting services;
Upon your acceptance of this proposal, Construction Resources, inc. will be engaged to conduct a study of the Upon your acceptance of this proposal, Construction Resources, inc. will be engaged to conduct a study of the Client, agrees that remaining low-sloped roof areas on the Brook Park City Hall at large, as defined by the Client. The Client agrees that the Construction Resources will be relieved from all responsibility and liability of any warranty or other issues that may be caused by this study. Terik Roofing will assist us and their costs for materials and labor of \$3,600 is involved to the fee below.

The Client will offer us copies of all construction documents, submittals, a history of the roof areas, renovations included in the fee below. tra viient will uner as copies or an expension accumenta, summas, a matery or the roof systems.

Destructive testing will be done for the roof areas as part of the fieldwork. Our study procedures will include a Destructive testing will be done for the roof areas as part of the neck underside where the Owner can give us access. The physical inspection of the roof areas, including the deck underside where the Owner can give us access. The including the hours of BAM and 5PM. We will attempt ascertain the deck underside where the Owner can give us access. The hours of the continuous through Friday during the hours of BAM and 5PM. We will attempt ascertain the deck underside and protections above roofing. We deck underside the continuous transfer and protections above roofing. nenwork will be none on wonday inrough Finday during the hours of BAIM and DFM. We will attempt ascertain the condition of the toof system, its components, including walls and projections above roofline. No drawings will be propared within the study report, but digital photos will be taken and included in the report.

Recommendations for repairs and restoration will be included in the study results, along with costs and budgets Recommendations for repairs and restoration will be included in the study results, along wild opens and budgets to assist in planning future repair or replacement expenditures. The study report will be delivered to you and reviewed. The study will be completed within 90 days from the acceptance of this proposal, weather permitting, reviewed. The study will be completed within 90 days from the acceptance of this proposal.

A separate proposal will be made, upon request, for a Phase II (plans and specifications for repairs/replacement work to hid) and a Phase III (contract administration and profess meeting of autoridad profession and professions are professions. A separate proposar will be made, upon request, for a Priese in (plans and specifications for reparametrized work to bid) and a Phase-III (contract administration and project meetings of awarded projects) engagement. -dollars (\$ 38,609.00)

WE PROPOSE hereby to furnish consulting services—complete according to this duttine, for the sum of Thirty Eight Thousand Six Hundred and zero/100-

Payable as follows: Net 30 days billing.

The Consultant's services consist of those services done by Construction Resources, Inc., Its employees, or cultide consultants who may be required to perform the Intended scope of work as outlined. The services provided by the Consultant, Its findings, or reports prepared with be in become acceptance of these agreements, and generally accepted proposal, owner's acceptance of these agreements, and generally accepted principles and provides of the industry. In performing its services, the principles and provides of the industry. In performing its services, and consultant will use that degree of cate and skilt ordinarily exercised under constitute will use that degree of cate and skilt ordinarily exercised under reports by the Consultant are opinions based on Judgment and are not be reported by the Consultant are opinions based on Judgment and are not to be construed as representations of fact. Consultant's liabilities are limited to the lotter amount of the fee charged to the otient.

Authorized signature:

Bud Griffilh, President

NOTE: This proposal may be withdrawn by us it not accepted

ACCEPTANCE OF PROPOBAL.—The prices, specifications and conditions are satisfactory and one hereby accepted. You are authorized to do the work as specified, Payment will be made us outlined above.

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CONSTRUCTION RESOURCES, INC.

3900 Station Street Solon, OH 44139

(440) 248-9800 Fax (440) 248-9939

PROPOSAL FOR CONSULTING SERVICES

Page No. 1 of 1 Page

To: Mr. Andres Gonzalez, Jr. Director of Recreation City of Brook Park 17400 Holland Road

SERVICE: Completion of Design Services LOCATION: Natatorium

PHONE: (216) 433-1545

DATE: 1/25/23

Upon your acceptance of this proposal, Construction Resources, Inc. will be engaged to finalize preparation of the opon your appearance or this proposar, opinantoning resources, this, will be engaged to make proposar opinanton of the detail drawings and construction documents for the exterior envelope repair to the natatorium building segment. Makarich Structural Engineering LLC will assist us in design finalization of the structural components and their fee of *** 1,000 is included in the fee stated below. The City acknowledges by acceptance of this proposal that the liability for the work to be contracted lies with the awarded contractor and the manufacturers of the products they install.

In our phone call today, you said the City wants the envelope designed for a functioning natatorium in the future; that all in our priorie can rougy, you said the only wants the envelope designed for a uniquoring margiorium in the new roof deck to conduits, light fixtures, etc. are to be removed and discarded in the scope of work; the City wants the new roof deck to be acoustical in design, that the waterpark will be open this summer so the Contactor will need to fence off the work area and take steps to keep the patrons safe; the employee parking lot and entrance will be closed for the project's duration; the City will acknowledge that the roof over the locker rooms, hot tub, sauna, etc. is not part of this scope of work; the City will acknowledge that the West PUF roof at the base of the natatorium walls will not be dealt with by CRI and leaks at the wall base is not the responsibility of the project's scope of work.

You will need to assist us in arranging the West Roofing scope of work for protecting the PUF roof, which will get The will need to assist us in analysing the west roughly stope of work for professing the Four roughly this issue, incorporated into the scope of work and the Prime Contactor will need to engage West Roofing to deal with this issue,

We will prepare a draft package of full specifications and drawings for your approval, in keeping with the recommendations made in our past study report. The project estimate of \$3,103,000 will be updated when final design is complete and shared with the City. Subsequent to your approval of the design documents, we will provide a listing of is complete and strated with the Oity. Subsequent to your approval of the present at the prebid meeting to answer qualified contractors that should be invited to the prebid meeting. We will be present at the prebid meeting to answer qualineu connactors man should be money to me presid meeting. We will assist in reviewing the bids that are appropriate bidder questions and explain the scope of the project. We will assist in reviewing the bids that are submitted to the Client in sealed envelopes and in recommending the bid to accept.

The finalized plans and specifications will be reviewed with you within 60 days from acceptance of this proposal and

A separate proposal for a field observation and/or contract administration and project meeting service will be submitted, your approval to proceed, weather permitting. ----dollars (\$4,000.00)

WE PROPOSE hereby to furnish consulting services—complete according to this outline, for the sum of: upon your request. Four Thousand and zero/100----

Payable as follows: Net 30 days billing.

The Consultant's services consist of those services done by Construction The Consultant's services consist or those services done by Construction Resources, Inc., its employees, or otitiside consultants who may be required to perform the intended scope of work as outlined. The services provided by the Consultant, its findings, or reports prepared will be in accordance with its provided. Owner's acceptance of these consultants. me consument, as unumgs, or reports prepared with or in accordance with its proposal, Owner's acceptance of these agreements, and generally accepted proposar, Owners acceptance of the industry. In performing its services, the principles and practices of the moustry. In performing its services, me Consultant will use that degree of care and skill ordinarily exercised under smiller circumstances by members of its industry. Statements made in similar encounsames by memoris or is muceny. Characterisms made in reports by the Consultant are opinions based on Judgment and are not to be reports by the Consumant are opinions based on subspinion, and are not to be construed as representations of faut. Consultant's liabilities are limited to the

Authorized signature:

Bud Griffith, President

NOTE: This proposal may be withdrawn by us if not accepted

ACCEPTANCE OF PROPOSAL -- The prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the total amount of the fee charged to the client.

Work as specified. Payment will be made as outlined above. signalure, Signalure -

CITY	OF	BROOK	PARK,	OHIO
				

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ORDINANCE NO: 11337-20A3

INTRODUCED BY: MAYOR ORCUTT

AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO A COMMUNITY COST-SHARE AGREEMENT BY AND BETWEEN THE NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORSD) AND THE CITY OF BROOK PARK, FOR THE STORMWATER MCM #6 IMPLEMENTATION, AND DECLARING AN EMERGENCY

WHEREAS; THE City of Brook Park entered into a regional Stormwater Management Program Service (SMP Service Agreement) as stormwater management rrogram service (pric service Agreement) as evidenced by Ordinance No. 10032-2016, passed August 2, 2016 and

WHEREAS, as a component of implementing a regional stormwater WHEREAS, as a component or implementing a regional stormwater has been management program a "Community Cost-Share Account" has been

WHEREAS, the Community Cost-Share Account is to provide funding to assist the City of Brook Park With the District approved created; and

WHEREAS, the District supports the Community Cost-Share project proposed by the City of Brook Park to clean approximately project proposed by the City of Brook Park to Clean approximately 400 300 stormwater catch basins and dispose of the approximately 100 per Torois Co. Toro SUU STORMWATER CATCH DASINS AND GLISPOSE OF THE APPROXIMATELY 4UU cubic yards of materials. The City Will use BFI Lorain Co. Landfill to took and discoon of the golid month that is nomed. project; and cubic yards of macerials. The City will use of horain Co. handlike to test and dispose of the solid waste that is removed from the to test and dispose of the solle waste that is removed from the catch basin cleaning will be done during the

catch pastus. The catch pastu creaming will be done during to spring and fall of 2023 and be completed by December 2023; and WHEREAS, the City will street sweep approximately 500 miles of

WHEREAS, the City Will street sweep approximately out miles of City streets three times during 2023; the City Will use City city streets three times during 2023; the city Will use equipment and personnel to complete the work. The City Will use equipment and personnel to complete the work. The City Will use BFT Lorain Landfill to test and dispose of the solid waste that is removed from the City streets; and

WHEREAS, no permits will be required to complete the work, the materials will be tested by BFT to make sure it is appropriate for materials Will be tested by Bel to make sure it is appropriate for disposal in a solid waste facility and not a hazardous waste disposal in a solid waste racility and not a nazardous waste facility, and the work being performed will also satisfy the City of facility, and the work being performed will also satisfy the City of facility, and the work being performed will also satisfy the City of th SWMP under 2015-2019 MS4 Permit obligations; and

BROOK PARK CITY COUNC

WHEREAS, the NEORSD Will reimburse funds up to \$200,000.00 to

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of the City for this project.

SECTION 1: The Mayor is authorized and directed to execute on Brook Park, State of Ohio, that:

behalf of the Municipality a Community Cost-Share project for the penalr of the Municipality a Community Cost-Share project for the Stormwater MCM #6 Implementation, by and between the Northeast Ohio Regional Sewer District and the City of Brook Park, set forth in the Agreement attached between Publishing West Northeast Ohio Regional Sewer District and the Regional Sewer District and Developed Brook Park, Set Forth In the Regional Sewer District and Developed Brook Park, Set Forth In the Regional Sewer District and Developed Brook Park, Set Forth In the Regional Sewer District and Developed Brook Park, Set Forth In the Regional Sewer District and Developed Brook Park, Set Forth In the Regional Sewer District and Developed Brook Park, Set Forth In the Regional Sewer District and Developed Brook Park, Set Forth In the Regional Sewer District and Developed Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer District Brook Park, Set Forth In the Regional Sewer Brook Park,

the Agreement attached hereto as Exhibit "L."

The money needed for the aforesaid transaction It is found and determined that all formal

actions of this council concerning and relating to the adoption of shall be paid from Fund 100. actions of this Council concerning and relating to the adoption of this Council, and this Ordinance were adopted in an open meeting of this Council, that this council and of any of its council and of any of its council that all herations of this Council and of any of its council that all herations of this council and of any of its council that all herations of this council and of any of its council that the council and of any of its council that the council tha that all deliberations of this council and of any of its committees that all deliberations of this council and of any of its committees that all deliberations of this council and of any of its committees. that all deliberations of this council and of any of its committees that resulted in such formal action were in meetings open to the that resulted in such formal action were in meetings open to the that resulted in such formal action were in meetings open to the that resulted in such formal action were in meetings open to the that resulted in such formal action were in meetings open to the that resulted in such formal action were in meetings open to the that resulted in such formal action were in meetings open to the that resulted in such formal action were in meetings open to the that resulted in such formal action were in meetings open to the that resulted in such formal action were in the such formal action were action with the such formal action were action which is the such formal action were action with the such formal action were action. that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121 22 of the Ohio Borrisod Code

This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the 121.22 of the Ohio Revised Code. emergency measure immediately necessary for the preservation of public peace, health, safety and welfare of said City, public peace, health, safety and arrange for any antipublic peace, nealth, salety and welfare of said City, and authorizing the Mayor to enter into an Agreement for a Community authorizing the Mayor to enter into an Agreement of and Tandfill authorizing Catch Basin Cleaning authorizing the Mayor to enter into an Agreement for a Community and Landfill Street Sweeping and Landfill Cost-Share Catch Basin Cleaning, Northeast Ohio Regional Sewer testing and Safe Disposal with this ordinance received the provided the provided this ordinance received the provided the provid testing and Safe Disposal with Northeast Ohio Regional Sewer the the district; therefore, provided this ordinance receives the council, affirmative vote of at least five (5) members elected to passage it shall take effect and be in force immediately upon the earliest it shall take effect and be in force from and after the earliest and approval by the Mayor, otherwise from and after the mayor. The snarr take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest negrod allowed by law period allowed by law.

nd approval by law. period allowed by law.	PRESIDENT OF COUNCIL
PASSED:	APPROVED: MAYOR
ATTEST: Clerk of Council	DATE



COMMUNITY COST-SHARE AGREEMENT THE NORTHEAST OHIO REGIONAL SEWER DISTRICT

	THE NORTHEAST OF	AND	Ž.	•
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•	Agreement is made and entered between the Northeast Ohio No. 114-13, adopted by the B No. 2000 And City of Brook Park (CA), and City of Brook	as as this	- day or correct) acting pure	112
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	coment is made and object	Regional Severa of	the District on Paralution	No.
This	Agreement is made and enter and between the Northeast Ohio No. 114-13, adopted by the B A"), and City of Brook Park (C adopted on	and of Trustees of	tto Ordinance/Resource	
and but all	id between the adopted by the D	acting pursual	17 (O O	
20123, 03	No. 114-13, adoption Park (ity) accord (Exhib	1 C C C C C C C C C C C C C C C C C C C	
Resolution	And and City of Bloom	, 20 (
(Exhibit")				
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WHERBAS, the District, as a component of implementing a regional stormwater management program, manages a financial account termed the "Community Cost-Share Account" management program, manages a maneral account connect me Community Cost-Snage Account that is for the aggregation and dissemination of funds derived from revenues collected from the Recitals

WHEREAS, the purpose of the Community Cost-Share Account is to provide funding to writeress, the purpose of the Community Cost-Share Program; and assist the City with District-approved projects through the Community Cost-Share Program; Stormwater Fee; and

WHEREAS, the Community Cost-Share Program funds are used for construction, operation, and maintenance of the Local Stormwater System of Regional Stormwater System, operation, and manusciance of the Local Stormwater System of Regional Stormwater System of Regio

WHEREAS, the District supports the Community Cost-Share Street Sweeping And Catch Basin Cleaning – Stormwater MCM#6 Implementation project (the "Project") as a or upgrade; and

Community Cost-Share project proposed by the City; and NOW THEREFORE, in consideration of the foregoing, the payment and the mutual promises contained in this Agreement, the parties agree as follows:

City Obligations Article 1.0

- 1.1
- Complete work as detailed in the District approved Community Cost-Share The City agrees to perform as follows: application. (Exhibit "C") 1.1.1
 - Complete and submit Progress Reports when submitting Request for Payment as needed, or within 30 days of close of the Project, in accordance with the Community Cost-Share Program Policy. 1.1.2

- Notify the City's Watershed Team Leader at least 7 business days prior to the 1.1.3
 - Meet with District staff when requested to review the Project status. start of the Project.
 - Obtain all necessary legal agreements with affected property owners to perform the Project and to bind any successor in title to maintain compliance as specified in this Agreement between the District and City for the Project. 1.1.5
 - Comply with all applicable local, state and federal requirements. This may include, but is not limited to, U.S. Army Corp of Engineers Section 404, Ohio EPA Section 401 water quality certification, and Ohio Department of Natural
 - If the City fails to maintain the Project in accordance with this Agreement, the City shall be liable for the full amount of any Community Cost. Share Program Resources Dam Safety Laws. funds paid for the Project. Such amount shall be offset against the City 1.1.7
 - Submit requests for approval to modify the budget, deadline, deliverables, or other components of the Project to the City's Watershed Team Leader at least 30 Community Cost-Share Account. business days prior to the desired date of execution of the modification. 1.1.8
 - Acknowledge the District on any public advertisement or outreach efforts including all publications and signage related to the Project which shall include 1.1.9 the following disclaimer:

This project was funded in part or totally through the Northeast Ohio Regional Sewer District (NEORSD) Community Cost-Share Program in coordination with City, under the provisions of the NEORSD Regional Stormwater Management Program. The contents and views, including any opinions, findings, or conclusions or recommendations, contained in this publication are those of the authors and have not been subject to NEORSD review and may not necessarily reflect the views of NEORSD, and no official endorsement should be inferred.

- 1.1.10 Provide the District the opportunity to have design approval for any signage or public education and outreach efforts related to the Project.
- 1.1.11 Permit the District to photograph the Project and to incorporate the Project into the District's overall public education and outreach efforts for stormwater
- Failure to meet any of the requirements listed in Article 1.1 may result in termination of this Agreement and reimbursement of dishursed funds to the District. 1.2

District's Obligations Article 2.0

- 2.1
- Allocate \$200,000.00 to the City for the Project from the City's Community Cost-. The District agrees to perform as follows: 2.1.1
 - Provide reimbursement of funds up to \$200,000.00 to the City within 60 days of receipt of a complete Request for Payment from the City, detailing costs related to Share Account. 2.1.2 the Project.
 - Timely review and approval or disapproval of requests to modify the budget, deadline, deliverables, or other components of the Project. 2.1.3
 - Acknowledge the City in presentations or publications related to the Project.
 - The District is not liable for any and all claims, damages, losses, liens, causes of action, Suits, judgments and expenses of any nature, kind or description, that result from and to the suns, magments and expenses of any nature, kind or description, that result from and to are extents caused by the acts of omissions of the City, the design professional, and the contractor, including all of their officers, owners, principals, subcontractors, employees, and agents. The District is not responsible for the accuracy, correctness and reliability of the plans as it is not reviewing or approving any plans as to suitability of the design/fitness for a particular purpose.

- The Parties shall continue the performance of their obligations under this Agreement Article 3.0
- notwithstanding the existence of a dispute. The Parties shall first try to resolve the dispute at the level of the designated 3.1 3.2

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Darties shall fire	st try to resolve the dispensional state of the dispension of the	tative	
The Parties shall increpresentatives as fe	Ollows.	City Representative Director of Public Service	Ì
IChr.	ntative	Director of a design	
District Represe Watershed Team	Leader		
Watershed 1000		nute at that level within ten (16)) working days,
		at that level within ton	dispute:
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If the Parties are unable to resolve the dispute at that level within ten (10) working days,

the Parties shall escalate the dispute to the following level to resolve the dispute:

tanute to the follows	
If the Parties are unable to resorve to the follows the Parties shall escalate the dispute to the follows	y Representative
the Parties snan so	A TROP
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District Representative Director of Watershed Programs	
Tractor of Watershoo	The state of the s
District	•
	•

- If the Parties remain unable to resolve the dispute within an additional ten (10) working days, the Parties shall proceed to mediation upon request by either party. The mediator shall review all documents and written statements, in order to accurately and effectively resolve the dispute. The mediator shall call a meeting between the Parties Within ten (10) working days after mediator appointment, which meeting shall be attended by at least the respective representatives listed in paragraph 3.02 above. The Parties shall attempt in good faith to resolve the dispute. The Parties agree to follow the Uniform Mediation Act, 3,3 Chapter 2710 of the Ohio Revised Code, The Parties shall share the cost of the mediator equally.
 - Such mediation shall be non-binding between the Parties and, to the extent permitted by law, shall be kept confidential. If the dispute is resolved and settled through the mediation process, the decision will be implemented by a written agreement signed by both Parties. Process, the decision will be implemented by a written agreement signed by bound the lifthe dispute is unable to be resolved through mediation, the Parties agree to submit the dispute to the appropriate jurisdiction as per Article 4; Remedies, below. **3.**4

The Parties agree that, after exhausting the dispute resolution process outlined above, all claims, counter-claims, disputes and other matters in question between the Parties arising ciamis, counter-ciamis, disputes and outer maners in question octiveen me rando at law. This out of or relating to this Agreement, or the breach thereof, will be decided at law. Agreement shall be governed by and interpreted according to the laws of the State of Article 4 4.1 Ohio.

This Agreement may be executed in counterparts, each of which shall be deemed to be an original, but which counterparts when taken together shall constitute one Agreement. Article 5 5.1

The terms and provisions of this Agreement shall be construed under and governed by the laws of Ohio (to which all Parties hereto consent to venue and jurisdiction). Article 6 6.1

This Agreement is not intended to create a joint venture, partnership or agency relationship between the Parties, and such joint venture, partnership, or agency Article 7 relationship is specifically hereby disclaimed. 71

Each person executing this Agreement represents and warrants that it is duly authorized to execute this Agreement by the party on whose behalf it is so executing. Arficle 8 8.1

The following exhibits are attached hereto and incorporated herein: Article 9

Exhibit "A" — District Resolution

Exhibit "B" — City Ordinance/Resolution

Exhibit "B" — District-Approved Community Cost Share Application

Exhibit "C" — District-Approved.

The parties have executed this Agreement on the day and year first above written.

a rear first above written
The parties have executed this Agreement on the day and year first above written. NORTHEAST OHIO REGIONAL SEWER DISTRICT
have executed this Agreement of the REGION REGION AND R
The parties nave NORTHEAD
BY: Kyle Dreyfuss-Wells Chief Executive Officer
AND
Darnell Brown, President Board of Trustees
CITY OF BROOK PARK
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Ву:
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The Legal Form and Correctness of this
The Legal Form and Correction Instrument is hereby Approved:
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Assistant/Director of Law
This Instrument Prepared By:
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Anka M. Davis Assistant General Counsel Assistant General Sewer District Northeast Ohio Regional Sewer District Northeast
Assistant Ohio Regional Down may be executed and shall have me was Agreement shall have me
Anka M. Davis Assistant General Counsel Assistant Ohio Regional Sewer District Northeast Ohio Regional Sewer District Each party agrees that this Agreement may be executed and distributed for signatures legal effect as it such Each party agrees that this Agreement may be executed and distributed for signatures affixed by both parties to this Agreement shall have the same legal effect as it such the emailed signatures affixed by both parties format.
Each party designatures arrived written to the consideration of the cons
Each party agrees that this Agreement format. the emailed signatures affixed by both parties to mat. signatures were in their originally written format.

IFOR NEORSD USE!

AGREEMENT NO.

NORTHEAST OHIO REGIONAL SEWER

WITH

CITY OF BROOK PARK .

FOR.

COMMUNITY COST-SHARE PROJECT: STREET SWEEPING AND CATCH BASIN CLEANING - STORMWATER MCM#6 IMPLEMENTATION PROJECT

Total Approximate Cost:

\$200,000.00

The legal form and correctness of the within instrument are hereby approved.

> ERIC I, LUCKAGE CHIEF LEGAL OFFICER. Date

CERTIFICATION

It is hereby certified that the amount required to meet the contract, agreement, obligation, payment or expenditure, for the above, has been lawfully appropriated or authorized or directed for such purpose and is in the Treasury or in process of collection to the credit of the fund free from any obligation or certification now outstanding.

> KENNETH J. DUPLAY CHIEF FINANCIAL OFFICER.

> > Date

EXHIBIT A

NORTHEAST OHIO REGIONAL SEWER DISTRICT RESOLUTION NO. 114-13

Authorizing the Executive Director to enter into Regional Stormwater Audionally the executive Director to enter this regional auditivates Management Program Community Cost-Share Program Agreements

WHEREAS, the Code of Regulations of the Northeast Ohio Regional Sewer with Member Communities. District, Title V - Stormwater Management Code Chapter 9 outlines the Community Cost-Share Program developed to provide funds to District. Member Communities for Costruction, operation and maintenance activities of community-specific stormwater

Jement projects, and WHEREAS, under the Community Cost-Share Program, 25% of the annual WHEREAS, under the Community Cost Share Read Member Community will be held by the collected stormwater revenue from each Member Community will be held by the collected stormwater revenue from each member community. collected stormwater revenue from each member communities, with review and District in a Community Cost-Share account, whereby Communities, the community and the community cost-share account, whereby communities the community continue the community and the rectal through charles and community the community that the community that the community the community that the community tha District in a Community Cost-Share account, whereby Communities, while review and approval by the District, through specific applications outlining the Community approval by the District, through specific applications outlining the community applications of the community appl management projects; and approval by the bistrict, undugit specific applications outlining the community specific stormwater work to be performed can access reimbursement of their funds;

WHEREAS, the District is seeking authority to enter into Regional Stormwater WHEREAS, the District is seeking authority to enter into regional Swith Member Management Program Community Cost-Share Program Agreements With Member Advantagement Program Community Cost-Share Program Agreements With Member Advantagement Program Community Cost-Share Program Agreements With Member Advantagement Program Agreements With Member Advantagement Program Agreements With Member Advantagement Program Agreements With Member Agr real agenteric Program Community was made Program Agreements with Member Communities of the purpose of detailing and memorializing responsibilities of the purpose Control and Member Communities under specific applications to the Community

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE Cost-Share Program;

NORTHEAST OHIO REGIONAL SEWER DISTRICT:

Section 1. That this Board finds that for the reasons stated in the preamble hereof it is in the best interests of the District to enter into Regional Stormwater nereor it is in the nest interests of the District to enter into Regional Stormwater Management Program Cost-Share Program Agreements with Member Communities to memorialize responsibilities of the District and Member Communities under specific applications to the Community Cost-Share Program.

Section 2. That this Board hereby authorizes the Executive Director to enter Into Regional Stormwater Wanagement Program Cost-Share Agreements with med Regional Stormwater Management Program Cost of the District and Member Nember Communities to memorialize responsibilities of the District and Member Nember Communities to memorialize responsibilities of the District and Member Nember Communities to memorialize responsibilities of the District and Member Nember Communities to memorialize responsibilities of the District and Member Nember Communities to memorialize responsibilities of the District and Member Nember Premier Communities to memorialize responsibilities or the Community Cost-Share program Communities under specific applications to the Community Cost-Share program Communities under specific applications to the Community Costoniale Program under such terms and conditions that are satisfactory to the Director of Law and in the best interests of the District.

Section 3. That this Board authorizes the Executive Director to execute all documents and do all things necessary to effect the terms and conditions of the documents and do all things necessary to effect the terms and conditions of the Stormwater Management Program Direct Billing Agreements with Member

Section 4. That this Board declares that all formal actions of the Board concerning and relating to the adoption of this resolution and that all deliberations of the Roard and any of the committees that resulted in cold formal action were concerning and relating to the adoption of the Board and any of its committees that resulted in said formal action to the sound of the sound in the said formal action to the said formal a or the board and any or its committees that resulted in said formal action were conducted in meetings open to the public and in compliance with all legal modules and in meetings open to the public and in compliance with all legal conducted in meetings open to the public and including coefficients. Communities. requirements, including Section 121,22 of the Ohio Revised Code.

On motion of Mayor Starr seconded by Mr. O'Malley, the foregoing Shella J. Kelly, Secretary

resolution was unanimously adopted on May 16, 2013.

Northeast Ohio Regional Sewer District Board of Trustees

EXHIBIT B

(Insert Member Community Ordinance/Resolution)

EXHIBIT C



Community Cost-Share Program APPLICATION

and the second s	•
Wember Community Information	City of Brook Park
Wember Eur	Brian Beyer
Community:	Director of Public Service
Primary Project Contact: (Name & Title)	10065 Holland Road
·	Brook Park, Ohio 44142
Mailing Address:	-72-7192
Phone Number:	bbeyer@cityofbrookpark.co.v.
Email:	Street Sweeping & Catch Basin Cleaning -
<u>Project Information</u>	Street Sweeping City Wide Project
project Title:	
Address or Location of Project:	April 10, 2023
project Start Date:	December 2023 \$200,000.00
project End Date: Community Cost-Share Fund Rea	
Submission Date:	



Project Narrative

- 1) Project Summary (1,000 word maximum)
- Describe the Project and include the following information, as applicable:
 - Describe the Project and deliverables; provide a map if applicable
 - Submit a deliverable worksheet listing tasks and deliverables with start dates and end
 - List permitting requirements necessary to initiate and complete project and how the dates for the significant benchmarks.

The City would like to clean approximately 300 stormwater catch basins and dispose of the approximately 400 cubic The City will use BFI Lorain County Landfill to test and dispose of the solid waste that is removed yards of materials. The City will use procurain country Landing to less and dispose of the some waste mat is remove from the catch basins. The catch basin cleaning will most likely be done during the spring and fall of 2023 and be

Street sweeping approximately 500 miles of City streets three (3) times during 2023. The City will use City areer sweeping approximately and miles of City will use BFI Lordin County Landfill to test and dispose of the equipment and personnel to complete the work. The City will use BFI Lordin County Landfill to test and dispose of the completed by December 2023.

No permits will be required to complete the work, the materials will be tested by BFI to make sure it is appropriate two permits will be required to complete the work, the materials will be tested by britto make sure it is appropriate for disposal in a solid waste facility and not a hazardous waste facility. The work being performed will also satisfy the solld waste that is removed from the City streets.

Cityles SWIMP under its 2015-2019 MS4 Permit obligations.



- 2) Ability to Provide Long Term Maintenance (500 word maximum) Describe the plans for long-term maintenance, addressing the following question: Who is responsible to provide on-going maintenance for the project and how will
 - - Provide documentation of scheduled maintenance and operation for completed

The City will maintain the streets and catch basins under its normal maintenance program under its SWMP.



- 3) Visibility and Public Outreach: (500 word maximum)
 - What audiences will be exposed to this Project (neighbors, students, community groups, Public outreach is required if appropriate for your project. · general public)?

There is no planned public education and outreach events for this work, but the Service Director will update the City There is no planned public education and conseall events for any work pare the service breath win appeare the error formed. The meetings are open to the public, Council during normal Council Meetings on the work that is being performed. The meetings are open to the public,



The Budget Summary and Project Budget (see page 3) represent the Community Cost-Share 4) Budget Summary (500 words maximum) Project components exclusively. Include details on the provider of all services such as design, engineering, construction management and materials including specific material cost,

If an engineer's estimate is included with the application, indicate which line items are included equipment, and hourly rate. in the Community Cost-Share Project application.

The City Service Director will submit cost reimbursement requests as the work is completed. The City will use its standard salary and fringe benifits for employees and will show invoices and cancelled checks for other costs such as

The City Service Director istimates the proposed work to cost +\$200,000.00 and will be performed during 2023.



Prior to submission, ensure that the Member Community is a registered vendor with the District. Vendor Registration can be done by accessing http://www.neorsd.org/isupplier homepage.php and completing Registration can be done by accessing http://www.neorsd.org/isupplier homepage.php and completing Registration can be done by accessing http://www.neorsd.org/isupplier homepage.php and completing Registration can be done by accessing http://www.neorsd.org/isupplier homepage.php and completing Registration can be done by accessing http://www.neorsd.org/isupplier homepage.php and completing the New Vendor Registration. If unsure of the Member Community vendor status, by initiating the New Vendor Registration a message of active registration will appear if currently registered as a vendor.

oject Budget	Community Cost- Share Expense	Line Item Description
Project Expenses Professional Services		Street sweeping, catch basin cleaning work
Personnel (Member Community staff anly)	\$ 155,000.00	BFI Lorain Co. Landfill & to test & dispose of materia
	\$ 45,000.00	BFI Lorain Co. Lanum & Co.
Subcontract		
Equipment		·
Materials		
Other	\$ 200,000.00	

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CITY OF BROOK PARK, OHIO

ORDINANCE NO: <u>11338-2623</u>

INTRODUCED BY: MAYOR ORGUTT

AN ORDINANCE AUTHORIZING THE MAYOR TO DISPOSE OF OBSOLETE CITY VEHICLES THAT ARE UNSAFE AND NO LONGER ROAD WORTHY, AND DECLARING AN EMERGENCY

WHEREAS, the City of Brook Park has certain vehicles that are no longer road worthy, in disrepair, and are unsafe to

WHEREAS, the Service Director has set up an account with operate; and MoMahan's Scrapping that will offer a fair market value based upon daily metal pricing; and

WHEREAS, McMahan Scrapping will provide the towing service and deduct the towing cost from the gross proceeds; and

WHEREAS, it is in the best interest of the City of Brook Park to dispose of said vehicles and receive the value for same.

NOW THEREFORE BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

The Mayor is hereby authorized and directed to dispose of obsolete city vehicles that are unsafe and no longer road worthy by delivering them with McMahan Scrapping as listed in the attached Exhibit "A."

It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all meetings open to the public in compilation with all legal requirements, including Section 121.22 of the Ohio Revised Code.

APR 1 8 2023

ECTION 3: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason to dispose of obsolete city vehicles; therefore provided this Ordinance receives the affirmative vote therefore provided this Ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take of at least five (5) members elected to council, it shall take effect and be in force immediately upon its passage and approval of the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED:	 PRESIDENT OF COUNCIL	
ATTEST:_	APPROVED: MAYOR	_



(1) 2006 FORD F150 VIN 1FTRF14W16NB73824 (Rusted Out)

(2) 2005 FORD F150 VIN 1FTRF14W45NB86338 (Rusted Out, Bad transmission)

(3) 1999 INTERNATIONAL LP4700 VIN 1HTSLABM6XH600364 (Blown Engine, Frame Delaminating)

(4) 1985 FORD L8000 VIN 1FDXK80UXGVA01644 (Bad Frame)

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CITY OF BROOK PARK, OHIO

RESOLUTION NO: 5-2023

INTRODUCED BY: MAYOR ORCUTT

A RESOLUTION TO EXTEND THE MORATORIUM ON VAPE AND SMOKE ESTABLISHMENTS OR SHOPS WITHIN THE CITY OF BROOK PARK FOR A PERIOD OF NOT MORE THAN 12 MONTHS, AND DECLARING AND EMERGENCY

WHEREAS, On July 19, 2022, this Council passed Resolution 16-2022, granting a twelve (12) months moratorium on vape and smoke establishments or shops within the City of Brook Park; and

WHEREAS, this Council wishes to extend a moratorium granted by prior Resolution to further undertake a review and/or study of the Ordinances of the City of Brook Park, including zoning, building, and business regulation sections of the Brook Park Codified Ordinances; and

WHEREAS, the City's Administration, Council and the Planning and Zoning Commission require additional time to undertake a review of all applicable codes within the city; and

WHEREAS, pursuant to the Constitution of the State of Ohio and the Ohio Revised Code, municipalities have the power to enact planning and zoning laws that are for the health, safety, welfare, comfort and peace of the citizens of the municipality, including restricting areas used for business and trade; and

NOW THEREFORE, BE IT RESOLVED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: That the Council of the City of Brook Park hereby extends the moratorium on vape and smoke establishments or shops within the City of Brook Park for a period not to exceed 12 months from the effective date of this Resolution, in order to allow the City Administration, Council and the Brook Park Planning and Zoning City Administration, Council and the Brook Park Planning and Zoning Commissions to review applicable Ohio statutes, criminal codes and the Brook Park Zoning Code relative to such use.

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SECTION 2: The moratorium shall be in effect for a period of 12 months from the effective date of this Resolution or until changes are enacted to amend the Codified Ordinances of the City of Brook Park to address these issues or until Council approves legislation explicitly revoking this moratorium, whichever occurs first.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to this Resolution were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason that the City of Brook Park would like to impose a 12 month moratorium on vape and smoke establishments or shops within the City of Brook Park; provided that this Resolution receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED:	PRESIDENT OF COUNCIL
ATTEST: Clerk of Council	APPROVED: MAYOR
•	DATE



CITY OF BROOK PARK, OHTO

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INTRODUCED BY: MAYOR ORCUTT VCW

A RESOLUTION

DECLARING THE MONTH OF MAY AS LUBUS AWARENESS MONTH IN THE CITY OF BROOK PARK, AND DECLARING AN EMERGENCY

WHEREAS, lupus is an unpredictable and misunderstood autoimmune disease that can cause severe damage to the tissue and organs in the body and, in some cases, death; and

WHEREAS, more than five million people worldwide suffer the devastating effects of this cruel and mysterious disease and each year over a hundred thousand young women, men, and children around the world are newly diagnosed with lupus, the great majority of whom are woman of childbearing age; and

WHEREAS, medical research efforts into lupus and the discovery of safer, more effective treatments for lupus patients are under-funded in comparison with diseases of comparable magnitude and severity; and

WHEREAS, many physicians worldwide are unaware of symptoms and health effects of lupus, causing people to suffer for many years before they obtain a correct diagnosis and medical treatment; and

WHEREAS, there is a deep, unmet need worldwide to educate and support individuals and families affected by lupus; and

WHEREAS, there is an urgent need to increase awareness in communities worldwide of the debilitating impact of lupus.

NOW, THEREFORE, BE IT RESOLVED that the Council of the City of Brook Park, State of Ohio that:

SECTION 1: That this Council along with the Mayor does hereby designate the month of May, 2023, as Lupus Awareness Month in the City of Brook Park, and call for increases in public and private sector funding for medical research on lupus,

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targeted education programs for health professionals, patients and the public, and recognition of lupus as a significant public health issue.

sections of this Council concerning and relating to this Resolution were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

section 3: This Resolution is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City and to show support by declaring May as Lupus Awareness Month in the City of Brook Park; therefore, provided that this Resolution receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED:		PRESIDENT OF COUNCIL	
ATTEST:	CLERK OF COUNCIL	APPROVED:	MAYOR
	•		DATE