



# STATE OF MICHIGAN ENTERPRISE PROCUREMENT

Department of Technology, Management, and Budget  
320 S. Walnut Street 2nd Floor Lansing, MI 48933  
P.O. BOX 30026 LANSING, MICHIGAN 48909

## CONTRACT CHANGE NOTICE

Change Notice Number 1

to

Contract Number MA240000000160

CONTRACTOR	ALTEC INDUSTRIES INC
	210 Inverness Center Drive
	Birmingham AL 35242
	Nathan Guetzko
	563-580-9915
	nathan.guetzko@altec.com
	CV0061662

STATE	Program Manager	Erin Reincke	MDOT
		517 855 1986	
		ReinckeE@michigan.gov	
	Contract Administrator	Yvon Dufour	DTMB
		517 249 0455	
		dufoury@michigan.gov	

CONTRACT SUMMARY				
Purchase, Rental, Parts, and Maintenance & Repair for Agricultural, Grounds, Turf, Earth Moving, and Roadside, Maintenance Equipment				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
January 16, 2024	January 16, 2029	5 - 12 Months	January 16, 2029	
PAYMENT TERMS		DELIVERY TIMEFRAME		
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
<input type="checkbox"/> P-Card <input type="checkbox"/> Direct Voucher (PRC) <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
<input type="checkbox"/>		<input type="checkbox"/>		
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$500,000.00	\$2,000,000.00	\$2,500,000.00		
DESCRIPTION				
Effective 3/17/2025, this contract is hereby increased by \$2,000,000.00. All other terms, conditions, specifications, and pricing remain the same. Per agency request, DTMB Procurement approval, and State Administrative Board approval on 3/11/2025.				



**STATE OF MICHIGAN PROCUREMENT**  
Department of Technology, Management, and Budget  
320 South Walnut, Lansing, Michigan 48933  
P.O. Box 30026 Lansing, Michigan 48909

**NOTICE OF CONTRACT**

NOTICE OF CONTRACT NO. **240000000160**

between

THE STATE OF MICHIGAN

and

<b>CONTRACTOR</b>	Altec Industries, Inc.
	210 Inverness Center Drive
	Birmingham, AL 35242
	Nathan Guetzko
	(563) 580-9915
	nathan.guetzko@altec.com
	CV0061662

<b>STATE</b>	Program Manager	Scott Poyer	MDOT
		(517) 284-6448	
		Poyers@michigan.gov	
	Contract Administrator	Yvon Dufour	DTMB
		(517) 249-0455	
		dufoury@michigan.gov	

CONTRACT SUMMARY			
<b>DESCRIPTION:</b> Purchase, Rental, Parts, and Maintenance & Repair for Agricultural, Grounds, Turf, Earth Moving, and Roadside, Maintenance Equipment			
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW
January 16, 2024	January 16, 2029	5, one year	
PAYMENT TERMS		DELIVERY TIMEFRAME	
45 Days			
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING
<input type="checkbox"/> P-card <input type="checkbox"/> Direct Voucher (DV) <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
MINIMUM DELIVERY REQUIREMENTS			
F.O.B. Destination			
MISCELLANEOUS INFORMATION			
<b>THIS IS NOT AN ORDER:</b> This Contract Agreement is awarded on the basis of our inquiry bearing the solicitation #230000002854. Orders for delivery will be issued directly by the Department in accordance to Schedule A, section 9.1 Authorizing Document.			
ESTIMATED CONTRACT VALUE AT TIME OF EXECUTION			<b>\$500,000.00</b>

**FOR THE CONTRACTOR:**

Altec Industries, Inc.

**Company Name**

\_\_\_\_\_  
**Authorized Agent Signature**

\_\_\_\_\_  
**Authorized Agent** (Print or Type)

\_\_\_\_\_  
**Date**

**FOR THE STATE:**

\_\_\_\_\_  
**Signature**

**Yvon Dufour – Category Specialist**  
**Name & Title**

**DTMB Procurement**  
**Agency**

\_\_\_\_\_  
**Date**

# STANDARD CONTRACT TERMS

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This STANDARD CONTRACT (“**Contract**”) is agreed to between the State of Michigan (the “**State**”) and Altec Industries (“**Contractor**”), an Alabama Corporation. This Contract is effective on January 16, 2024 (“**Effective Date**”), and unless terminated, expires on January 16, 2029.

This Contract may be renewed for up to five (5) additional one (1) year period(s). Renewal is at the sole discretion of the State and will automatically extend the Term of this Contract. The State will document its exercise of renewal options via Contract Change Notice.

The parties agree as follows:

- 1. Duties of Contractor.** Contractor must perform the services and provide the deliverables (the “**Contract Activities**”) described in a Statement of Work, the initial Statement of Work is attached as Schedule A – Statement of Work. An obligation to provide delivery of any commodity is considered a service and is a Contract Activity.

Contractor must furnish all labor, equipment, materials, and supplies necessary for the performance of the Contract Activities unless otherwise specified in a Statement of Work.

Contractor must: (a) perform the Contract Activities in a timely, professional, safe, and workmanlike manner consistent with standards in the trade, profession, or industry; (b) meet or exceed the performance and operational standards, and specifications of the Contract; (c) provide all Contract Activities in good quality, with no material defects; (d) not interfere with the State’s operations; (e) obtain and maintain all necessary licenses, permits or other authorizations necessary for the performance of the Contract; (f) cooperate with the State, including the State’s quality assurance personnel, and any third party to achieve the objectives of the Contract; (g) return to the State any State-furnished equipment or other resources in the same condition as when provided when no longer required for the Contract; (h) assign to the State any claims resulting from state or federal antitrust violations to the extent that those violations concern materials or services supplied by third parties toward fulfillment of the Contract; (i) comply with all State physical and IT security policies and standards which will be made available upon request; and (j) provide the State priority in performance of the Contract except as mandated by federal disaster response requirements. Any breach under this paragraph is considered a material breach.

Contractor must also be clearly identifiable while on State property by wearing identification issued by the State, and clearly identify themselves whenever making contact with the State.

- 2. Notices.** All notices and other communications required or permitted under this Contract must be in writing and will be considered given and received: (a) when verified by written receipt if sent by courier; (b) when actually received if sent by mail without verification of receipt; or (c) when verified by automated receipt or electronic logs if sent by facsimile or email.

If to State:	If to Contractor:
<b>See Contract Administrator information shown below.</b>	Nathan Guetzko Account Manager tel: 563-580-9915 <a href="mailto:nathan.guetzko@altec.com">nathan.guetzko@altec.com</a>

3. **Contract Administrator.** The Contract Administrator, or the individual duly authorized for each party, is the only person authorized to modify any terms of this Contract, and approve and execute any change under this Contract (each a “**Contract Administrator**”):

State:	Contractor:
Yvon Dufour 300-320 South Walnut Street, Elliot Larsen Building, 2 <sup>nd</sup> Floor. Lansing, MI 48933 dufoury@michigan.gov (517) 249-0455	Nathan Guetzko Account Manager tel: 563-580-9915 <a href="mailto:nathan.guetzko@altec.com">nathan.guetzko@altec.com</a>

4. **Program Manager.** The Program Manager for each party will monitor and coordinate the day-to-day activities of the Contract (each a “**Program Manager**”):

State:	Contractor:
Scott Poyer Poyers@michigan.gov (517) 284-6448	Nathan Guetzko Account Manager tel: 563-580-9915 <a href="mailto:nathan.guetzko@altec.com">nathan.guetzko@altec.com</a>

5. **Performance Guarantee.** Contractor must at all times have financial resources sufficient, in the opinion of the State, to ensure performance of the Contract and must provide proof upon request. The State may require a performance bond (as specified in a Statement of Work) if, in the opinion of the State, it will ensure performance of the Contract.
6. **Insurance Requirements.**  
See Schedule C
7. **Administrative Fee and Reporting** Contractor must pay an administrative fee of **1%** on all payments made to Contractor under the Contract including transactions with the State (including its departments, divisions, agencies, offices, and commissions), MiDEAL members, and other states (including governmental subdivisions and authorized entities). Administrative fee payments must be made online by check or credit card at: <https://www.thepayplace.com/mi/dtmb/adminfee>  
Contractor must submit an itemized purchasing activity report, which includes at a minimum, the name of the purchasing entity and the total dollar volume in sales. Reports should be mailed to MiDeal@michigan.gov.

The administrative fee and purchasing activity report are due within 30 calendar days from the last day of each calendar quarter.

- 8. Extended Purchasing Program.** This contract is extended to MiDEAL members. MiDEAL members include local units of government, school districts, universities, community colleges, and nonprofit hospitals. A current list of MiDEAL members is available at [www.michigan.gov/mideal](http://www.michigan.gov/mideal).

Upon written agreement between the State and Contractor, this contract may also be extended to: (a) other states (including governmental subdivisions and authorized entities).

If extended, Contractor must supply all Contract Activities at the established Contract prices and terms. The State reserves the right to impose an administrative fee and negotiate additional discounts based on any increased volume generated by such extensions.

Contractor must submit invoices to, and receive payment from, extended purchasing program members on a direct and individual basis.

- 9. Relationship of the Parties.** The relationship between the parties is that of independent contractors. Contractor, its employees, and agents will not be considered employees of the State. No partnership or joint venture relationship is created by virtue of this Contract. Contractor, and not the State, is responsible for the payment of wages, benefits and taxes of Contractor's employees and any subcontractors. Prior performance does not modify Contractor's status as an independent contractor. Neither party has authority to contract for nor bind the other party in any manner whatsoever.
- 10. Intellectual Property Rights.** If a Statement of Work requires Contractor to create any intellectual property, Contractor hereby acknowledges that the State is and will be the sole and exclusive owner of all right, title, and interest in the Contract Activities and all associated intellectual property rights, if any. Such Contract Activities are works made for hire as defined in Section 101 of the Copyright Act of 1976. To the extent any Contract Activities and related intellectual property do not qualify as works made for hire under the Copyright Act, Contractor will, and hereby does, immediately on its creation, assign, transfer and otherwise convey to the State, irrevocably and in perpetuity, throughout the universe, all right, title and interest in and to the Contract Activities, including all intellectual property rights therein.
- 11. Subcontracting.** Contractor may not delegate any of its obligations under the Contract without the prior written approval of the State. Contractor must notify the State at least 90 calendar days before the proposed delegation and provide the State any information it requests to determine whether the delegation is in its best interest. If approved, Contractor must: (a) be the sole point of contact regarding all contractual matters, including payment and charges for all Contract Activities; (b) make all payments to the subcontractor; and (c) incorporate the terms and conditions contained in this Contract in any subcontract with a subcontractor. Contractor remains responsible for the completion of the Contract Activities, compliance with the

terms of this Contract, and the acts and omissions of the subcontractor. The State, in its sole discretion, may require the replacement of any subcontractor.

12. **Staffing.** The State's Contract Administrator may require Contractor to remove or reassign personnel providing services by providing a notice to Contractor.
13. **Background Checks.** Pursuant to Michigan law, all agencies subject to IRS Pub. 1075 are required to ask the Michigan State Police to perform fingerprint background checks on all employees, including Contractor and Subcontractor employees, who may have access to any database of information maintained by the federal government that contains confidential or personal information, including, but not limited to, federal tax information. Further, pursuant to Michigan law, any agency described above is prohibited from providing Contractors or Subcontractors with the result of such background check. For more information, please see Michigan Public Act 427 of 2018. Upon request, or as may be specified in a Statement of Work, Contractor must perform background checks on all employees and subcontractors and its employees prior to their assignment. The scope is at the discretion of the State and documentation must be provided as requested. Contractor is responsible for all costs associated with the requested background checks. The State, in its sole discretion, may also perform background checks.
14. **Assignment.** Contractor may not assign this Contract to any other party without the prior approval of the State. Upon notice to Contractor, the State, in its sole discretion, may assign in whole or in part, its rights or responsibilities under this Contract to any other party. If the State determines that a novation of the Contract to a third party is necessary, Contractor will agree to the novation and provide all necessary documentation and signatures.
15. **Change of Control.** Contractor will notify the State, within 30 days of any public announcement or otherwise once legally permitted to do so, of a change in Contractor's organizational structure or ownership. For purposes of this Contract, a change in control means any of the following: (a) a sale of more than 50% of Contractor's stock; (b) a sale of substantially all of Contractor's assets; (c) a change in a majority of Contractor's board members; (d) consummation of a merger or consolidation of Contractor with any other entity; (e) a change in ownership through a transaction or series of transactions; (f) or the board (or the stockholders) approves a plan of complete liquidation. A change of control does not include any consolidation or merger effected exclusively to change the domicile of Contractor, or any transaction or series of transactions principally for bona fide equity financing purposes.  
  
In the event of a change of control, Contractor must require the successor to assume this Contract and all of its obligations under this Contract.
16. **Ordering.** Contractor is not authorized to begin performance until receipt of authorization as identified in a Statement of Work.
17. **Acceptance.** Contract Activities are subject to inspection and testing by the State within 30 calendar days of the State's receipt of them ("**State Review Period**"), unless otherwise provided in a Statement of Work. If the Contract Activities are not fully accepted by the State, the State will notify Contractor by the end of the State



Review Period that either: (a) the Contract Activities are accepted but noted deficiencies must be corrected; or (b) the Contract Activities are rejected. If the State finds material deficiencies, it may: (i) reject the Contract Activities without performing any further inspections; (ii) demand performance at no additional cost; or (iii) terminate this Contract in accordance with Section 24, Termination for Cause.

Within 10 business days from the date of Contractor's receipt of notification of acceptance with deficiencies or rejection of any Contract Activities, Contractor must cure, at no additional cost, the deficiency and deliver unequivocally acceptable Contract Activities to the State. If acceptance with deficiencies or rejection of the Contract Activities impacts the content or delivery of other non-completed Contract Activities, the parties' respective Program Managers must determine an agreed to number of days for re-submission that minimizes the overall impact to the Contract. However, nothing herein affects, alters, or relieves Contractor of its obligations to correct deficiencies in accordance with the time response standards set forth in this Contract.

If Contractor is unable or refuses to correct the deficiency within the time response standards set forth in this Contract, the State may cancel the order in whole or in part. The State, or a third party identified by the State, may perform the Contract Activities and recover the difference between the cost to cure and the Contract price plus an additional 10% administrative fee.

- 18. Delivery.** Contractor must deliver all Contract Activities F.O.B. destination, within the State premises with transportation and handling charges paid by Contractor, unless otherwise specified in a Statement of Work. All containers and packaging become the State's exclusive property upon acceptance.
- 19. Risk of Loss and Title.** Until final acceptance, title and risk of loss or damage to Contract Activities remains with Contractor. Contractor is responsible for filing, processing, and collecting all damage claims. The State will record and report to Contractor any evidence of visible damage. If the State rejects the Contract Activities, Contractor must remove them from the premises within 10 calendar days after notification of rejection. The risk of loss of rejected or non-conforming Contract Activities remains with Contractor. Rejected Contract Activities not removed by Contractor within 10 calendar days will be deemed abandoned by Contractor, and the State will have the right to dispose of it as its own property. Contractor must reimburse the State for costs and expenses incurred in storing or effecting removal or disposition of rejected Contract Activities.
- 20. Warranty Period.** The warranty period, if applicable, for Contract Activities is a fixed period commencing on the date specified in a Statement of Work. If the Contract Activities do not function as warranted during the warranty period, the State may return such non-conforming Contract Activities to the Contractor for a full refund.
- 21. Invoices and Payment.** Invoices must conform to the requirements communicated from time-to-time by the State. All undisputed amounts are payable within 45 days of the State's receipt. Contractor may only charge for Contract Activities provided as specified in a Statement of Work. Invoices must include an itemized statement of all charges. The State is exempt from State sales tax for direct purchases and may be exempt from federal excise tax, if Services purchased under this Agreement are for



the State's exclusive use. Notwithstanding the foregoing, all fees are exclusive of taxes, and Contractor is responsible for all sales, use and excise taxes, and any other similar taxes, duties and charges of any kind imposed by any federal, state, or local governmental entity on any amounts payable by the State under this Contract.

The State has the right to withhold payment of any disputed amounts until the parties agree as to the validity of the disputed amount. The State will notify Contractor of any dispute within a reasonable time. Payment by the State will not constitute a waiver of any rights as to Contractor's continuing obligations, including claims for deficiencies or substandard Contract Activities. Contractor's acceptance of final payment by the State constitutes a waiver of all claims by Contractor against the State for payment under this Contract, other than those claims previously filed in writing on a timely basis and still disputed.

The State will only disburse payments under this Contract through Electronic Funds Transfer (EFT). Contractor must register with the State at <http://www.michigan.gov/SIGMAVSS> to receive electronic fund transfer payments. If Contractor does not register, the State is not liable for failure to provide payment. Without prejudice to any other right or remedy it may have, the State reserves the right to set off at any time any amount then due and owing to it by Contractor against any amount payable by the State to Contractor under this Contract.

Excluding federal government charges and terms, Contractor warrants and agrees that each of the fees, economic or product terms or warranties granted pursuant to this Contract are comparable to or better than the equivalent fees, economic or product term or warranty being offered to any commercial or government customer (including any public educational institution within the State of Michigan) of Contractor. If Contractor enters into any arrangements with another customer of Contractor to provide the products or services, available under this Contract, under more favorable prices, as the prices may be indicated on Contractor's current U.S. and International price list or comparable document, then this Contract will be deemed amended as of the date of such other arrangements to incorporate those more favorable prices, and Contractor will immediately notify the State of such fee and formally memorialize the new pricing in a change notice.

- 22. Liquidated Damages.** Liquidated damages, if applicable, will be assessed as described in a Statement of Work. The parties understand and agree that any liquidated damages (which includes but is not limited to applicable credits) set forth in this Contract are reasonable estimates of the State's damages in accordance with applicable law. The parties acknowledge and agree that Contractor could incur liquidated damages for more than 1 event. The assessment of liquidated damages will not constitute a waiver or release of any other remedy the State may have under this Contract for Contractor's breach of this Contract, including without limitation, the State's right to terminate this Contract for cause under Section 24 and the State will be entitled in its discretion to recover actual damages caused by Contractor's failure to perform its obligations under this Contract. However, the State will reduce such actual damages by the amounts of liquidated damages received for the same events causing the actual damages. Amounts due the State as liquidated damages may be set off against any fees payable to Contractor under this Contract, or the State may

bill Contractor as a separate item and Contractor will promptly make payments on such bills.

**23. Stop Work Order.** The State may suspend any or all activities under the Contract at any time. The State will provide Contractor a written stop work order detailing the suspension. Contractor must comply with the stop work order upon receipt. Within 90 calendar days, or any longer period agreed to by Contractor, the State will either: (a) issue a notice authorizing Contractor to resume work, or (b) terminate the Contract or delivery order. The State will not pay for Contract Activities, Contractor's lost profits, or any additional compensation during a stop work period.

**24. Termination for Cause.** (a) The State may terminate this Contract for cause, in whole or in part, if Contractor, as determined by the State: (i) endangers the value, integrity, or security of any facility, data, or personnel; (ii) becomes insolvent, petitions for bankruptcy court proceedings, or has an involuntary bankruptcy proceeding filed against it by any creditor; (iii) engages in any conduct that may expose the State to liability; (iv) breaches any of its material duties or obligations under this Contract; or (v) fails to cure a breach within the time stated by the State in a notice of breach, if in its sole discretion the State has chosen to provide a time to cure. Any reference to specific breaches being material breaches within this Contract will not be construed to mean that other breaches are not material.

(b) If the State terminates this Contract under this Section, the State will issue a termination notice specifying whether Contractor must: (i) cease performance immediately. Contractor must submit all invoices for Contract Activities accepted by the State within 30 days of the date of termination. Failure to submit an invoice within that timeframe will constitute a waiver by Contractor for any amounts due to Contractor for Contract Activities accepted by the State under this Contract or (ii) continue to perform for a specified period. If it is later determined that Contractor was not in breach of the Contract, the termination will be deemed to have been a Termination for Convenience, effective as of the same date, and the rights and obligations of the parties will be limited to those provided in Section 25, Termination for Convenience.

The State will only pay for amounts due to Contractor for Contract Activities accepted by the State on or before the date of termination, subject to the State's right to set off any amounts owed by the Contractor for the State's reasonable costs in terminating this Contract. Contractor must promptly reimburse to the State any fees prepaid by the State prorated to the date of such termination, including any prepaid fees. The Contractor must pay all reasonable costs incurred by the State in terminating this Contract for cause, including administrative costs, attorneys' fees, court costs, transition costs, and any costs the State incurs to procure the Contract Activities from other sources.

**25. Termination for Convenience.** The State may immediately terminate this Contract in whole or in part without penalty and for any reason or no reason, including but not limited to, appropriation or budget shortfalls. The termination notice will specify whether Contractor must: (a) cease performance of the Contract Activities immediately. Contractor must submit all invoices for Contract Activities accepted by the State within 30 days of the date of termination. Failure to submit an invoice within

that timeframe will constitute a waiver by Contractor for any amounts due Contractor for Contract Activities accepted by the State under this Contract, or (b) continue to perform the Contract Activities in accordance with Section 26, Transition Responsibilities. If the State terminates this Contract for convenience, the State will pay all reasonable costs, as determined by the State, for State approved Transition Responsibilities to the extent the funds are available.

- 26. Transition Responsibilities.** Upon termination or expiration of this Contract for any reason, Contractor must, for a period of time specified by the State (not to exceed **90** calendar days), provide all reasonable transition assistance requested by the State, to allow for the expired or terminated portion of the Contract Activities to continue without interruption or adverse effect, and to facilitate the orderly transfer of such Contract Activities to the State or its designees. Such transition assistance may include, but is not limited to: (a) continuing to perform the Contract Activities at the established Contract rates; (b) taking all reasonable and necessary measures to transition performance of the work, including all applicable Contract Activities, training, equipment, software, leases, reports and other documentation, to the State or the State's designee; (c) transferring title in and delivering to the State, at the State's discretion, all completed or partially completed deliverables prepared under this Contract as of the Contract termination date; and (d) preparing an accurate accounting from which the State and Contractor may reconcile all outstanding accounts (collectively, "**Transition Responsibilities**"). This Contract will automatically be extended through the end of the transition period.
- 27. Return of State Property.** Upon termination or expiration of this Contract for any reason, Contractor must take all necessary and appropriate steps, or such other action as the State may direct, to preserve, maintain, protect, or return to the State all materials, data, property, and confidential information provided directly or indirectly to the Contractor by any entity, agent, vendor, or employee of the State.
- 28. Indemnification.** Contractor must defend, indemnify and hold the State, its departments, divisions, agencies, offices, commissions, officers, and employees harmless, without limitation, from and against any and all actions, claims, losses, liabilities, damages, costs, attorney fees, and expenses (including those required to establish the right to indemnification), arising out of or relating to: (a) any breach by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable) of any of the promises, agreements, representations, warranties, or insurance requirements contained in this Contract; (b) any infringement, misappropriation, or other violation of any intellectual property right or other right of any third party; (c) any bodily injury, death, or damage to real or tangible personal property occurring wholly or in part due to action or inaction by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable); and (d) any acts or omissions of Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable).

The State will notify Contractor in writing if indemnification is sought; however, failure to do so will not relieve Contractor, except to the extent that Contractor is materially

prejudiced. Contractor must, to the satisfaction of the State, demonstrate its financial ability to carry out these obligations.

The State is entitled to: (i) regular updates on proceeding status; (ii) participate in the defense of the proceeding; (iii) employ its own counsel; and to (iv) retain control of the defense, at its own cost and expense, if the State deems necessary. Contractor will not, without the State's prior written consent (not to be unreasonably withheld), settle, compromise, or consent to the entry of any judgment in or otherwise seek to terminate any claim, action, or proceeding.

Any litigation activity on behalf of the State, or any of its subdivisions under this Section, must be coordinated with the Department of Attorney General. An attorney designated to represent the State may not do so until approved by the Michigan Attorney General and appointed as a Special Assistant Attorney General.

The State is constitutionally prohibited from indemnifying Contractor or any third parties.

29. **Infringement Remedies.** If, in either party's opinion, any piece of equipment, software, commodity, or service supplied by Contractor or its subcontractors, or its operation, use or reproduction, is likely to become the subject of a copyright, patent, trademark, or trade secret infringement claim, Contractor must, at its expense: (a) procure for the State the right to continue using the equipment, software, commodity, or service, or if this option is not reasonably available to Contractor, (b) replace or modify the same so that it becomes non-infringing; or (c) accept its return by the State with appropriate credits to the State against Contractor's charges and reimburse the State for any losses or costs incurred as a consequence of the State ceasing its use and returning it.
30. **Limitation of Liability and Disclaimer of Damages.** **IN NO EVENT WILL THE STATE'S AGGREGATE LIABILITY TO CONTRACTOR UNDER THIS CONTRACT, REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR BY STATUTE OR OTHERWISE, FOR ANY CLAIM RELATED TO OR ARISING UNDER THIS CONTRACT, EXCEED THE MAXIMUM AMOUNT OF FEES PAYABLE UNDER THIS CONTRACT.** The State is not liable for consequential, incidental, indirect, or special damages, regardless of the nature of the action.
31. **Disclosure of Litigation, or Other Proceeding.** Contractor must notify the State within 14 calendar days of receiving notice of any litigation, investigation, arbitration, or other proceeding (collectively, "**Proceeding**") involving Contractor, a subcontractor, or an officer or director of Contractor or subcontractor, that arises during the term of the Contract, including: (a) a criminal Proceeding; (b) a parole or probation Proceeding; (c) a Proceeding under the Sarbanes-Oxley Act; (d) a civil Proceeding involving: (1) a claim that might reasonably be expected to adversely affect Contractor's viability or financial stability; or (2) a governmental or public entity's claim or written allegation of fraud; or (3) any complaint filed in a legal or administrative proceeding alleging the Contractor or its subcontractors discriminated against its employees, subcontractors, vendors, or suppliers during the term of this Contract; or (e) a Proceeding involving any license that Contractor is required to possess in order to perform under this Contract.

- 32. State Data.** All data and information provided to Contractor by or on behalf of the State, and all data and information derived therefrom, is the exclusive property of the State ("**State Data**"); this definition is to be construed as broadly as possible. Upon request, Contractor must provide to the State, or a third party designated by the State, all State Data within 10 calendar days of the request and in the format requested by the State. Contractor will assume all costs incurred in compiling and supplying State Data. No State Data may be used for any marketing or commercial purposes.
- 33. Reserved.**
- 34. Non-Disclosure of Confidential Information.** The parties acknowledge that each party may be exposed to or acquire communication or data of the other party that is confidential, privileged communication not intended to be disclosed to third parties.
- a. Meaning of Confidential Information.** For the purposes of this Contract, the term "**Confidential Information**" means all information and documentation of a party that: (a) has been marked "confidential" or with words of similar meaning, at the time of disclosure by such party; (b) if disclosed orally or not marked "confidential" or with words of similar meaning, was subsequently summarized in writing by the disclosing party and marked "confidential" or with words of similar meaning; or, (c) should reasonably be recognized as confidential information of the disclosing party. The term "Confidential Information" does not include any information or documentation that was or is: (a) subject to disclosure under the Michigan Freedom of Information Act (FOIA); (b) already in the possession of the receiving party without an obligation of confidentiality; (c) developed independently by the receiving party, as demonstrated by the receiving party, without violating the disclosing party's proprietary rights; (d) obtained from a source other than the disclosing party without an obligation of confidentiality; or, (e) publicly available when received, or thereafter became publicly available (other than through any unauthorized disclosure by, through, or on behalf of, the receiving party). For purposes of this Contract, in all cases and for all matters, State Data is deemed to be Confidential Information.
  - b. Obligation of Confidentiality.** The parties agree to hold all Confidential Information in strict confidence and not to copy, reproduce, sell, transfer, or otherwise dispose of, give or disclose such Confidential Information to third parties other than employees, agents, or subcontractors of a party who have a need to know in connection with this Contract or to use such Confidential Information for any purposes whatsoever other than the performance of this Contract. The parties agree to advise and require their respective employees, agents, and subcontractors of their obligations to keep all Confidential Information confidential. Disclosure to a subcontractor is permissible where: (a) use of a subcontractor is authorized under this Contract; (b) the disclosure is necessary or otherwise naturally occurs in connection with work that is within the subcontractor's responsibilities; and (c) Contractor obligates the subcontractor in a written contract to maintain the State's Confidential Information in confidence. At the State's request, any employee of Contractor or any subcontractor may be



required to execute a separate agreement to be bound by the provisions of this Section.

- c. **Cooperation to Prevent Disclosure of Confidential Information.** Each party must use its best efforts to assist the other party in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limiting the foregoing, each party must advise the other party immediately in the event either party learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Contract and each party will cooperate with the other party in seeking injunctive or other equitable relief against any such person.
- d. **Remedies for Breach of Obligation of Confidentiality.** Each party acknowledges that breach of its obligation of confidentiality may give rise to irreparable injury to the other party, which damage may be inadequately compensable in the form of monetary damages. Accordingly, a party may seek and obtain injunctive relief against the breach or threatened breach of the foregoing undertakings, in addition to any other legal remedies which may be available, to include, in the case of the State, at the sole election of the State, the immediate termination, without liability to the State, of this Contract or any Statement of Work corresponding to the breach or threatened breach.
- e. **Surrender of Confidential Information upon Termination.** Upon termination of this Contract or a Statement of Work, in whole or in part, each party must, within 5 calendar days from the date of termination, return to the other party any and all Confidential Information received from the other party, or created or received by a party on behalf of the other party, which are in such party's possession, custody, or control; provided, however, that Contractor must return State Data to the State following the timeframe and procedure described further in this Contract. Should Contractor or the State determine that the return of any Confidential Information is not feasible, such party must destroy the Confidential Information and must certify the same in writing within 5 calendar days from the date of termination to the other party. However, the State's legal ability to destroy Contractor data may be restricted by its retention and disposal schedule, in which case Contractor's Confidential Information will be destroyed after the retention period expires.

35. **Reserved.**

36. **Reserved.**

37. **Reserved.**

38. **Records Maintenance, Inspection, Examination, and Audit.** Pursuant to MCL 18.1470, the State or its designee may audit Contractor to verify compliance with this Contract. Contractor must retain and provide to the State or its designee and the auditor general upon request, all records related to the Contract through the term of the Contract and for 4 years after the latter of termination, expiration, or final payment under this Contract or any extension ("**Audit Period**"). If an audit, litigation, or other action involving the records is initiated before the end of the Audit Period, Contractor must retain the records until all issues are resolved.

Within 10 calendar days of providing notice, the State and its authorized representatives or designees have the right to enter and inspect Contractor's premises or any other places where Contract Activities are being performed, and examine, copy, and audit all records related to this Contract. Contractor must cooperate and provide reasonable assistance. If financial errors are revealed, the amount in error must be reflected as a credit or debit on subsequent invoices until the amount is paid or refunded. Any remaining balance at the end of the Contract must be paid or refunded within 45 calendar days.

This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.

- 39. Representations and Warranties.** Contractor represents and warrants: (a) Contractor is the owner or licensee of any Contract Activities that it licenses, sells, or develops and Contractor has the rights necessary to convey title, ownership rights, or licensed use; (b) all Contract Activities are delivered free from any security interest, lien, or encumbrance and will continue in that respect; (c) the Contract Activities will not infringe the patent, trademark, copyright, trade secret, or other proprietary rights of any third party; (d) Contractor must assign or otherwise transfer to the State or its designee any manufacturer's warranty for the Contract Activities; (e) the Contract Activities are merchantable and fit for the specific purposes identified in the Contract; (f) the Contract signatory has the authority to enter into this Contract; (g) all information furnished by Contractor in connection with the Contract fairly and accurately represents Contractor's business, properties, finances, and operations as of the dates covered by the information, and Contractor will inform the State of any material adverse changes; (h) all information furnished and representations made in connection with the award of this Contract is true, accurate, and complete, and contains no false statements or omits any fact that would make the information misleading; and that (i) Contractor is neither currently engaged in nor will engage in the boycott of a person based in or doing business with a strategic partner as described in 22 USC 8601 to 8606. A breach of this Section is considered a material breach of this Contract, which entitles the State to terminate this Contract under Section 24, Termination for Cause.
- 40. Conflicts and Ethics.** Contractor will uphold high ethical standards and is prohibited from: (a) holding or acquiring an interest that would conflict with this Contract; (b) doing anything that creates an appearance of impropriety with respect to the award or performance of the Contract; (c) attempting to influence or appearing to influence any State employee by the direct or indirect offer of anything of value; or (d) paying or agreeing to pay any person, other than employees and consultants working for Contractor, any consideration contingent upon the award of the Contract. Contractor must immediately notify the State of any violation or potential violation of these standards. This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.
- 41. Compliance with Laws.** Contractor must comply with all federal, state and local laws, rules and regulations.



**42. Reserved.**

**43. Reserved.**

**44. Nondiscrimination.** Under the Elliott-Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, *et seq.*, the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, *et seq.*, and [Executive Directive 2019-09](#). Contractor and its subcontractors agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex (as defined in Executive Directive 2019-09), height, weight, marital status, partisan considerations, any mental or physical disability, or genetic information that is unrelated to the person's ability to perform the duties of a particular job or position. Breach of this covenant is a material breach of this Contract.

**45. Unfair Labor Practice.** Under MCL 423.324, the State may void this Contract if the name of the Contractor, or the name of a subcontractor, manufacturer, or supplier of the Contractor, subsequently appears on the Unfair Labor Practice register compiled under MCL 423.322.

**46. Governing Law.** This Contract is governed, construed, and enforced in accordance with Michigan law, excluding choice-of-law principles, and all claims relating to or arising out of this Contract are governed by Michigan law, excluding choice-of-law principles. Any dispute arising from this Contract must be resolved in the Michigan Court of Claims. Contractor waives any objections, such as lack of personal jurisdiction or *forum non conveniens*. Contractor must appoint an agent in Michigan to receive service of process.

**47. Non-Exclusivity.** Nothing contained in this Contract is intended nor is to be construed as creating any requirements contract with Contractor, nor does it provide Contractor with a right of first refusal for any future work. This Contract does not restrict the State or its agencies from acquiring similar, equal, or like Contract Activities from other sources.

**48. Force Majeure.** Neither party will be in breach of this Contract because of any failure arising from any disaster or acts of god that are beyond their control and without their fault or negligence. Each party will use commercially reasonable efforts to resume performance. Contractor will not be relieved of a breach or delay caused by its subcontractors. If immediate performance is necessary to ensure public health and safety, the State may immediately contract with a third party.

**49. Dispute Resolution.** The parties will endeavor to resolve any Contract dispute in accordance with this provision. The dispute will be referred to the parties' respective Contract Administrators or Program Managers. Such referral must include a description of the issues and all supporting documentation. The parties must submit the dispute to a senior executive if unable to resolve the dispute within 15 business days. The parties will continue performing while a dispute is being resolved, unless the dispute precludes performance. A dispute involving payment does not preclude performance.

Litigation to resolve the dispute will not be instituted until after the dispute has been elevated to the parties' senior executive and either concludes that resolution is

unlikely or fails to respond within 15 business days. The parties are not prohibited from instituting formal proceedings: (a) to avoid the expiration of statute of limitations period; (b) to preserve a superior position with respect to creditors; or (c) where a party makes a determination that a temporary restraining order or other injunctive relief is the only adequate remedy. This Section does not limit the State's right to terminate the Contract.

**50. Media Releases.** News releases (including promotional literature and commercial advertisements) pertaining to the Contract or project to which it relates must not be made without the prior written approval of the State, and then only in accordance with the explicit written instructions of the State.

**51. Schedules.** All Schedules and Exhibits that are referenced herein and attached hereto are hereby incorporated by reference. The following Schedules are attached hereto and incorporated herein:

Document Title	Document Description
<b>Schedule A</b>	Statement of Work
<b>Attachment 1 to Schedule A</b>	Global Rental Customer Responsibilities
<b>Schedule B1 to B3</b>	Pricing
<b>Schedule C</b>	Insurance Requirements
<b>Schedule D</b>	Specifications
<b>Schedule E</b>	Prosperity Regional Map
<b>Schedule F</b>	Trailer Wiring Diagram

**52. Entire Agreement and Order of Precedence.** This Contract, which includes Statement of Work, and schedules and exhibits, is the entire agreement of the parties related to the Contract Activities. This Contract supersedes and replaces all previous understandings and agreements between the parties for the Contract Activities. If there is a conflict between documents, the order of precedence is: (a) first, this Contract, excluding its schedules, exhibits, and Statement of Work; (b) second, Statement of Work as of the Effective Date; and (c) third, schedules expressly incorporated into this Contract as of the Effective Date. NO TERMS ON CONTRACTOR'S INVOICES, ORDERING DOCUMENTS, WEBSITE, BROWSE-WRAP, SHRINK-WRAP, CLICK-WRAP, CLICK-THROUGH OR OTHER NON-NEGOTIATED TERMS AND CONDITIONS PROVIDED WITH ANY OF THE CONTRACT ACTIVITIES, OR DOCUMENTATION HEREUNDER, EVEN IF ATTACHED TO THE STATE'S DELIVERY OR PURCHASE ORDER, WILL CONSTITUTE A PART OR AMENDMENT OF THIS CONTRACT OR IS BINDING ON THE STATE OR ANY AUTHORIZED USER FOR ANY PURPOSE. ALL SUCH OTHER TERMS AND CONDITIONS HAVE NO FORCE AND EFFECT AND ARE DEEMED REJECTED BY THE STATE AND THE AUTHORIZED USER, EVEN IF

ACCESS TO OR USE OF THE CONTRACT ACTIVITIES REQUIRES AFFIRMATIVE ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

- 53. Severability.** If any part of this Contract is held invalid or unenforceable, by any court of competent jurisdiction, that part will be deemed deleted from this Contract and the severed part will be replaced by agreed upon language that achieves the same or similar objectives. The remaining Contract will continue in full force and effect.
- 54. Waiver.** Failure to enforce any provision of this Contract will not constitute a waiver.
- 55. Survival.** Any right, obligation or condition that, by its express terms or nature and context is intended to survive, will survive the termination or expiration of this Contract; such rights, obligations, or conditions include, but are not limited to, those related to transition responsibilities; indemnification; disclaimer of damages and limitations of liability; State Data; non-disclosure of Confidential Information; representations and warranties; insurance and bankruptcy.
- 56. Contract Modification.** This Contract may not be amended except by signed agreement between the parties (a "**Contract Change Notice**"). Notwithstanding the foregoing, no subsequent Statement of Work or Contract Change Notice executed after the Effective Date will be construed to amend this Contract unless it specifically states its intent to do so and cites the section or sections amended.

ALTEC INDUSTRIES INC

# SCHEDULE A – STATEMENT OF WORK CONTRACT ACTIVITIES

Contract No. 240000000160

Agricultural, Grounds, Turf, Earth Moving, and Roadside, Maintenance Equipment

## SCOPE

This solicitation includes the following equipment categories for purchase, rent, and parts, maintenance & repair:

1. Agricultural Maintenance
2. Grounds Maintenance
3. Turf Maintenance
4. Earth Moving
5. Roadside Maintenance
6. Equipment Rental
7. Truck upfitting & Seasonal Maintenance Equipment

## REQUIREMENTS

### 1.1 Product Specifications

The Contractor must provide one or more of the following:

Brands or trade names are for identification purposes only and do not limit the Contractor to such brands or trade names.

All equipment must be new. The purchase of used equipment is subject to State of Michigan Central Procurement guidelines and approval.

Specifications are as follows:

1	<b>C03-2001CD-23 Dump Body</b>
2	<b>C03-2001LG-23 Lift Gate</b>
3	<b>C03-2001SP-23 Snow Plow</b>
4	<b>C03-2011CD-23 Dump Body TB FT</b>
5	<b>C03-20CU11-23 Utility Body</b>
6	<b>C03-3001CAP-23 Cap for Pickup</b>
7	<b>C04-SDS-23 Stake Rack Body with Scissor Hydraulic Lift and Cab Protector</b>
8	<b>C05-1601-23 Backhoe</b>
9	<b>C36-0401-4T-23 Asphalt Heater-Hauler</b>
10	<b>C36-Asphalt Recycler-23</b>
11	<b>C38-0101 CTL-23 Skid Steer Track Loader</b>
12	<b>C38-0101-23 Skid Steer Loader</b>
13	<b>C38-0101AWS-23 Skid Steer Loader</b>
14	<b>C38-0501LP-23 Fork Lift, Propane, 6,000 Lbs Capacity</b>
15	<b>C54-0001-23 Concrete Saw</b>
16	<b>C62-0101RB-23 Broom</b>
17	<b>C67-008T-23 Trailer</b>
18	<b>C67-20T LP-23 Trailer</b>
19	<b>C70-0001-23 Welder-Generator</b>

20	C60-2001-16 Sand-Salt Spreader
21	C62-0051-23 Street Sweeper
22	C05-0901-23 Tractor Road Side
23	C05-0902-23 Tractor Road Side
24	C05-1001-23 Tractor Lawn Mower 2 Wheel steer
25	C05-1002-23 Tractor Lawn Mower 4 Wheel Steer 48-54-60 in deck
26	C05-1003-23 Zero Turn 60-72 in deck
27	C06-1001-23 Utility Vehicle 6x4
28	C06-1002-23 Utility Vehicle 4 Wheel Drive
29	C-42-0026-23 Mower, 15 ft Road Side Mechanical Drive Rotary
30	C-62-0101RB-23 Loader, 4 Wheel drive 2.25 Cubic Yard Minimum Capacity
31	38-0201HD.23 Loader, 4 Wheel drive, Articulated, 3.0 Cubic Yard Minimum Capacity
32	05-00051.23 Crawler Dozer (30hp & up)
33	30-00LT23 Light Tower, Trailer Mounted Diesel Engine
34	38-0501D-23 Fork Lift, Diesel Engine, 8,000 Lbs Capacity
35	C56-051.23 Sewer and Catch Basin Cleaner Unit
36	C42-0027.23 Mower, 15 ft Road Side Hydraulic Drive Rotary
37	C10-010DD.22 Digger Derrick, with platform Body and FG through Box Light Tower
38	C10-034AT.22 Aerial Tower, 34 Foot Working Height and Utility Body
39	C10-045AT.22 Aerial Tower, 45 Foot Working Height and Utility Body

## **A. EQUIPMENT FOR PURCHASE**

### **2.1 Warranties**

Describe any warranties included in this contract. Explain the process for reporting warranty issues and how the Contractor will handle any repairs or replacements.

The State reserves the right to require additional warranties other than those identified by the Contractor in its response to this RFP.

- Standard new equipment warranty includes ninety (90) days warranty for travel charges and one (1) year warranty for parts and labor. The following major components are warranted for structural integrity for as long as the initial purchaser owns the product: booms, boom articulation links, hydraulic cylinder structures, outrigger weldments, pedestals, subbases, and turntables. Note: boom truck cranes to have 5-year structural warranty. Extended warranties available, contact account manager for more information.

#### **Process for reporting warranty issues:**

- Call 1-877-GO ALTEC (1-877-462-5832), contact account manager with unit details, or submit warranty claim via Altec Connect online portal.

#### **Repairs or replacements:**

- Contractor will assess eligibility and best plan-of-action for repair or replacement based on specifics of repair and lead time for replacement components.

**Altec Service,  
1200 Victory Drive  
Howell, MI 48843  
205-437-7228  
nathan.guetzko@altec.com**

## 2.2 Recall Requirements and Procedures

Describe any recall requirements and procedures.

Contractor meets all NHTSA requirements of communication. Recalls will be posted to the NHTSA website, Altec Connect (online customer portal), and printed copy of the recall and affected units will be mailed to the account address at the time of release.

## 2.3 Time Frames

Contractors shall provide information regarding standard and “quick-ship” delivery programs available for each type of equipment. Please provide the delivery time associated with each program and identify shipping program limitations.

All Contract Activities must be delivered within **120** calendar days from receipt of order. The receipt of order date is pursuant to Section 2, Notice provisions of the Standard Contract Terms. Supply chain issues may impact delivery timeframes. Many Contractor products have a lead time longer than 120 calendar days due to the nature of their product with heavy customization and long component/chassis lead times. Lead time varies according to equipment requirements and will be discussed at time of quote.

## 2.4 Delivery

Delivery will be expected within **120** calendar days for special orders and out of stock items, and **30** calendar days for in-stock items, upon date of order. Delivery will be made to the requested location and shall be F.O.B. Delivered or charged on a mileage rate or a one-time charge by region (see **Schedule E – Prosperity Regions**) per **Schedule B - Pricing**.

The State prefers Delivery terms that would provide unencumbered service with the most competitive rates. The Contractor must select between **A.** or **B.** below for their primary shipping method.

### **A. F.O.B. Delivered Items**

Prices shall be quoted "F.O.B. Delivered" with transportation charges prepaid on ALL orders for State of Michigan and Extended Purchasing Participants. These terms apply to **ALL** locations in the State of Michigan. Other F.O.B. terms will not be accepted and may disqualify a dealer from further consideration.

### **B. F.O.B. Dealership Items**

Prices shall be quoted "F.O.B. Dealership" with transportation charges prepaid to the primary Contractor location on all orders for State of Michigan and Extended Purchasing Participants. Contractors must also quote a delivery cost per **Schedule B – Pricing**, to facilitate calculation of delivery cost to various locations within Michigan. The delivery cost per **Schedule B – Pricing**, will be added to the equipment price quoted to determine the “Total Price” for “F.O.B. Dealership” items. Mileage will be calculated based upon the “Official Michigan Department of Transportation Highway Map”. Other F.O.B. terms will not be accepted and may disqualify a dealer from further consideration. The State reserves the right to make their own shipping arrangements.

**Freight Charges** - Should an Agency order items that are below the minimum order requirement of the Contract or should a Contractor quote F.O.B. Shipping Point on one-time purchases, the Contractor should choose the most economically advantageous carrier and must be approved by the using agency.

United Parcel Service (UPS) must be used in instances where the weight of the shipment is less than 150 lbs., or where shipments could be separated into smaller parcels such as three (3) 50 lb. packages.

If the Contractor fails to follow these shipping instructions, the State shall pay the shipping costs on the Contractor's invoice, minus the difference for the amount that was charged and the amount that would have been charged if the requested carrier had been used. The State reserves the right to arrange their own freight.

Contractor's must provide freight deliveries during the following times: 8 am to 3 pm Eastern, Monday through Friday.

## **2.5 Training**

The Contractor must provide the following training:

A comprehensive orientation training shall be provided at delivery or at an alternate time requested by the State. The training shall include equipment operation, maintenance, and inspection practices.

Upon request, the Contractor shall provide up to 8 hours of mechanics and operators training to up to eight (8) employees. The training is to be held at each ship to address. The Contractor shall provide unit pricing for training in **Schedule B, Pricing**.

## **B. EQUIPMENT FOR RENTAL**

### **3.1 Specifications**

- a) The Contractor shall provide equipment for rental that is similar in scope to equipment included in **Schedule D, Specifications**.
- b) Brand or trade names referred to herein are for identification purposes only, and do not limit the Contractor to such brands, provided alternates offered are equal in quality and function to those specified.
- c) In addition, the Contractor shall provide a complete list of equipment available for rental by category (e.g. loaders, dozers, sweepers, etc.) in **Schedule B – Pricing, Catalog Pricing for Rental**.

The list shall include:

- i. Daily, weekly, and monthly rental rates.
- ii. Percentage discount offered by category for such rates.
- iii. Only listed items that meet these requirements shall be included under this contract.

The Contractor must provide deliverables, including the staffing to accomplish all service incidentals necessary to complete the work, as set forth in this solicitation.



- a) The Contractor must provide make and model of all equipment offered for rental. Brand or trade names provided by the Contractor are for identification purposes, and do not limit the Contractor to such brands, provided alternates offered are equal in quality and function to those specified.
- b) All rental equipment is to meet or exceed applicable federal and state safety standards as mandated by OSHA, and MIOSHA Motor Carrier Division. This equipment is to meet or exceed applicable American National Standards Institute (ANSI) specifications. The Contractor will provide written documentation guaranteeing compliance with all safety standards.
- c) The Contractor shall provide written documentation confirming satisfactory testing on equipment where mandated by law (to include but not limited to: stress testing, dielectric testing, visual inspections) completed by a licensed and reputable testing firm.
- d) Rental equipment shall be no more than four (4) years old.

### **3.2 Availability and Delivery of Equipment**

- a) All requested orders must be delivered within two (2) calendar days/48 hours after receipt of order.
- b) Emergencies will be responded to within one (1) to six (6) hours. Equipment shall be available as both F.O.B. delivered and F.O.B. pick-up.
- c) No premium rates will be charged for delivery after normal business hours.
- d) Rental equipment items shall be fully fueled and operational at the time of pick-up or delivery.
- e) The Contractor will be required to perform a walk-around equipment inspection at the time of delivery and pickup.
- f) The Contractor (or their designee) and the Program Manager (or their designee) shall document the inspection by mutual execution of an inspection document provided by the Contractor.
- g) The Purchasing Entity is responsible for refueling all rented equipment upon its return.
- h) Contractor will strive to accommodate the timeframes, however Contractor's fleet is nationwide, and they utilize third-party driveaway companies, so this time frame may vary.
- i) If there is a unit available in Michigan, Contractor will make it available for pick up in this window. However, if a unit is outside the immediate area this will vary based on third-party delivery companies. Also, we are charged by the third-party delivery services, and pass this cost along if the customer chooses to have the unit delivered.
- j) We require delivery services deliver units with at least ¼ tank of fuel.
- k) Customer can make inspections of unit when delivered and email copies of their findings to [cory.collins@altec.com](mailto:cory.collins@altec.com) for future reference.

### **3.3 Maintenance/Service**

Please see **Attachment 1 to Schedule A - Global Rental Customer Responsibilities.**

### **3.4 Training**

The Contractor must provide the following training:

An orientation training shall be provided upon request at the time of delivery. The training shall be deemed sufficient by the Purchasing Entity, to include detailed equipment operation and minor maintenance and inspection practices.

## **C. PARTS, MAINTENANCE & REPAIR**

### **4.1 Parts**

Quality of Parts under these specifications should be name brand, nationally advertised merchandise. Equivalent substitutions must be approved by the agency contact person. Aftermarket Repair parts must be equal to or exceed Contractor original equipment manufacturers (OEM) specifications. Repair parts must be packaged and distributed under their respective nationally known name brands. All rebuilt or remanufactured parts must meet the same requirements as listed above. Some repair parts may be required to be original equipment manufactured repair parts Contractor's dealer network must carry a complete line of OEM parts for all models of equipment they carry. Preservation, packaging, and packing and marking will be in accordance with best commercial practice to provide adequate protection against shipping damage.

### **4.2 Warranty/Buy Back**

Contractors are required to provide any buy-back, trade-in, or exchange policy concerning repair parts sold to Purchasing Entities. Contractor shall correct ordering errors without further cost to the Purchasing Entity. A copy of the Warranty shall be included for replacement parts purchased.

### **4.3 Maintenance/Repair Facilities**

Repair Facilities that will perform the warranty work of items under this Contract shall be identified as the Supplier's dealer network. The manufacturer, whether contracted directly, or associated with the Distributer by certified letter, is responsible for ensuring that the facilities are able to adhere to the contract requirements for warranty work performance.

## **D. GENERAL REQUIREMENTS**

### **5.1 Incentives**

Trade in program is available upon request.

### **5.2 Transition**

**Post-Contract Transition:** Invoices must be sent within 45 days after expiration of contract. Any invoices received after 45 days will result in a non-payment of invoice.

### **6.1 Technical Support and Repairs**

When providing technical support, the Call Center must resolve the caller's issue within 30 minutes. If the caller's issue cannot be resolved within 2 hours, on-site service must be scheduled. The on-site service must be performed within 36 hours of the time the issue was scheduled for service.

**Technical support line is available at 1-800-GO ALTEC (1-877462-5832), extension 4.**

**This support line is staffed Monday – Friday, 8:00 AM – 7:30 PM Eastern.**

**Mobile Service line is available at extension 3. This line is staffed 24 hours/day, 7 days/week.**

## 6.2 Reporting

The Contractor must submit to the Contract Administrator or their designee, the following written reports:

- a) *Maintenance/service report*
- b) *Regional rental report*
- c) *Regional purchase report*

By the second Friday of every December, the Contractor must submit a report of recycled content in commodities sold in that calendar year to **the Contract Administrator or their Designee, DTMB Procurement**.

## 6.3 Meetings

The Contractor must attend the following meetings:

- a) Kick-off meeting within 30 calendar days of the Effective Date.
- b) The State may request other meetings as it deems appropriate.

## 7 Staffing

### 7.1 Contractor Representative

The Contractor must appoint Product Representative specifically assigned to State of Michigan accounts who will respond to State inquiries regarding the Contract Activities, answer questions related to ordering and delivery, etc. (the "Contractor Representative").

The Contractor must notify the Contract Administrator at least 30 calendar days before removing or assigning a new Contractor Representative.

### 7.2 Key Personnel

The Contractor must appoint one individual who will be directly responsible for the day-to-day operations of the Contract ("Key Personnel"). Key Personnel must be specifically assigned to the State account, be knowledgeable on the contractual requirements, and respond to State inquiries within 24 hours.

Contractor's Key Personnel must be available during the following times: 8 am to 5 pm Eastern, Monday through Friday, at a minimum.

The Contractor may not remove or assign Key Personnel without the prior consent of the State. Prior consent is not required for reassignment for reasons beyond the Contractor's control, including illness, disability, death, leave of absence, personal emergency circumstances, resignation, or termination for cause. The State may request a résumé and conduct an interview before approving a change. The State may require a 30-calendar day training period for replacement personnel.

The Contractor must identify the Key Personnel, indicate where they will be physically located, describe the functions they will perform, and provide current chronological résumés.

**Nathan Guetzko - Sales, warranty support, service support, in-service orientation  
1200 Victory Drive, Howell, MI 48843**

**Andy Johnson - Sales, warranty support, service support, in-service orientation  
1200 Victory Drive, Howell, MI 48843**

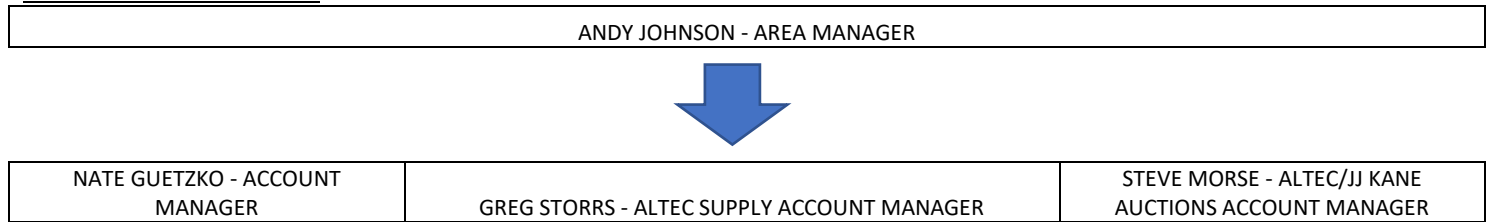
### 7.3 Non-Key Personnel

The Contractor must notify the Contract Administrator at least 10-calendar days before removing or assigning non-key personnel.

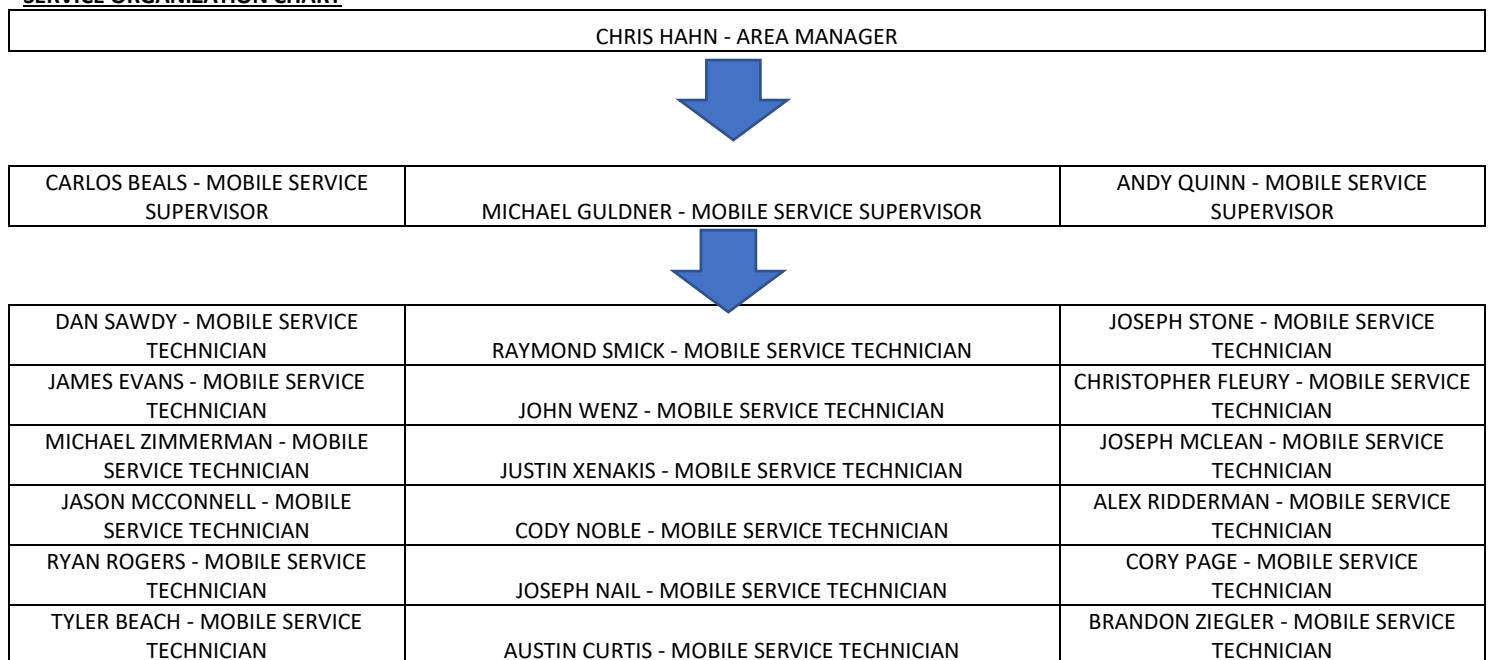
## 7.4 Organizational Chart

### ALTEC INDUSTRIES INC

#### SALES ORGANIZATION CHART



#### SERVICE ORGANIZATION CHART



## 7.5 Customer Service Toll-Free Number

The Contractor must specify its toll-free number for the State to contact the Contractor Representative who must be available for calls during the hours of 8 am to 5 pm Eastern Monday through Friday, at a minimum. Identify customer service availability for this proposal by hours and days of the week.

**1-877-GO ALTEC (1-877-462-5832)**

**Ext 1) Parts: Monday – Friday 7:30 AM – 8:00 PM Eastern**

**Ext 2) Shop service: Monday – Friday 7:00 AM – 4:00 PM Eastern**

**Ext 3) Mobile service: 24 hours/day, 7 days/week**

**Ext 4) Technical support: Monday – Friday 8:00 AM – 7:30 PM Eastern**

## 7.6 Technical Support, Repairs and Maintenance

The Contractor must specify its toll-free number for the State to contact the Contractor for technical support, repairs and maintenance. The Contractor must be available for calls and service during the

hours of 8 am to 5 pm Eastern Monday through Friday, at a minimum. Identify availability for this proposal by hours and days of the week.

**1-877-GO ALTEC (1-877-462-5832)**

**Ext 1) Parts: Monday – Friday 7:30 AM – 8:00 PM Eastern**

**Ext 2) Shop service: Monday – Friday 7:00 AM – 4:00 PM Eastern**

**Ext 3) Mobile service: 24 hours/day, 7 days/week**

**Ext 4) Technical support: Monday – Friday 8:00 AM – 7:30 PM Eastern**

## **7.7 Disclosure of Subcontractors**

If the Contractor intends to utilize subcontractors, the Contractor must disclose the following:

- The legal business name; address; telephone number; a description of subcontractor's organization and the services it will provide; and information concerning subcontractor's ability to provide the Contract Activities.
- The relationship of the subcontractor to the Contractor. Of the total bid, the price of the subcontractor's work. Whether the Contractor has a previous working experience with the subcontractor. If yes, provide the details of that previous relationship.
- A complete description of the Contract Activities that will be performed or provided by the subcontractor.
- **Geographically Disadvantaged Business Enterprise Sub-Contractors:** If contractors plan to utilize subcontractors to perform more than 20% of the deliverables under this contract, at least 20% of that subcontracted work must be awarded to Michigan-based Geographically Disadvantaged Business Enterprises (GDBE). Contractor will submit a plan detailing all subcontractors to be used, including the percentage of the work to be done by each. Contractor must inform the State to the name and address of the GDBE, the percentage of the work they will complete, the total amount estimated to be paid to the GDBE, and provide evidence for their qualifications as a GDBE. If contractor cannot find GDBE subcontractors to meet this requirement they must provide reasoning and justification to receive an exemption from this requirement from the State. (Existing business relationships will not be an approved reason for this.)

**GDBE definition:** "Geographically-Disadvantaged Business Enterprise" means a person or entity that satisfies one or more of the following: (i) Is certified as a HUBZone Small Business Concern by the United States Small Business Administration. (ii) Has a principal place of business located within a Qualified Opportunity Zone within Michigan. (iii) More than half of its employees have a principal residence located within a Qualified Opportunity Zone within Michigan, or both.

**Additional information on GDBEs can be found here:**

[Michigan Qualified Opportunity Zone \(QOZ\) Map](#)

[Michigan Supplier Community \(MiSC\) Page](#)

Contractor must provide detailed information as requested in the above requirement(s).	
The legal business name, address, telephone number of the subcontractor(s).	NA
A description of subcontractor's organization and the services it will provide and information concerning subcontractor's ability to provide the Contract Activities.	
The relationship of the subcontractor to the Contractor.	
Is the subcontractor a GDBE?	Choose an item.
Whether the Contractor has a previous working experience with the subcontractor. If yes, provide the details of that previous relationship.	
A complete description of the Contract Activities that will be performed or provided by the subcontractor.	
Of the total bid, the price of the subcontractor's work.	

Contractor must provide information based on the work performed by all subcontractors	
Total percentage of work that will be performed by subcontractors:	
Total percentage of subcontracted work that will be performed by GDBE subcontractors:	

## 7.8 Security

The Contractor will be subject the following security procedures:

- a) Contractor performs a detailed background screen on all employees including sex offender status, education verification, statewide criminal, social security report, county criminal, past employment verification, motor vehicle report, as well as a physical and drug screen.
  - b) Contractor personnel wear shirts with company logo, and Mobile Service Technicians drive trucks with company logos on the doors
  - c) The company that performs the background checks is Employment Screening Services (www.es2.com)
  - d) Contractor does an in depth look at criminal background and history, sex offenders, and then also a general social security report. A motor vehicle record search is performed for those that will be driving a company vehicle, and then a credit check is done for specific roles involved in accounting.
- The Contractor's staff may be required to make deliveries to or enter State facilities. The State may require the Contractor's personnel to wear State issued identification badges.

## **8 Pricing**

### **8.1 Price Term**

Pricing is firm for a 365-day period ("Pricing Period"). The first pricing period begins on the Effective Date. Adjustments may be requested in writing by either party and will take effect no earlier than the next Pricing Period.

### **8.2 Price Changes**

Adjustments will be based on changes in actual Contractor costs. Any request must be supported by written evidence documenting the change in costs. The State may consider sources, such as the Consumer Price Index; Producer Price Index; other pricing indices as needed; economic and industry data; manufacturer or supplier letters noting the increase in pricing; and any other data the State deems relevant.

Following the presentation of supporting documentation, both parties will have 30 days to review the information and prepare a written response. If the review reveals no need for modifications, pricing will remain unchanged unless mutually agreed to by the parties. If the review reveals that changes are needed, both parties will negotiate such changes, for no longer than 30 days, unless extended by mutual agreement.

The Contractor remains responsible for Contract Activities at the current price for all orders received before the mutual execution of a Change Notice indicating the start date of the new Pricing Period.

## **9 Ordering**

### **9.1 Authorizing Document**

The appropriate authorizing document for the Contract will be a purchase order or delivery order.

### **9.2 Order Verification**

The Contractor must have internal controls approved by Central Procurement Services to verify abnormal orders and to ensure that only authorized individuals place orders.

## **10 Acceptance**

### **10.1 Acceptance, Inspection and Testing**

The State will use the following criteria to determine acceptance of the Contract Activities:

- a) Equipment shall be delivered in new condition. Damaged equipment will not be accepted. The Contractor will repair or replace the damaged equipment at the Contractor's expense.
- b) The Contractor shall provide documentation upon delivery that provides itemized deliverables.
- c) Acceptance is not complete for partial deliveries until final deliverables are received.



## **10.2 Final Acceptance**

- a) The Contractor shall deliver the equipment. The State, or their designee, shall inspect the equipment and approve acceptance of goods upon delivery.
- b) All set-up and/or training and orientation shall be completed.

## **11 Invoice and Payment**

### **11.1 Invoice Requirements**

All invoices submitted to the State must include: (a) date; (b) purchase order; (c) quantity; (d) itemized description of the Contract Activities; (e) unit price; (f) shipping cost (if any); (g) vendor-generated invoice number; and (h) total price.

### **11.2 Payment Methods**

The State will make payment for Contract Activities by EFT.

## **12 Liquidated Damages**

Late or improper completion of the Contract Activities will cause loss and damage to the State, and it would be impracticable and extremely difficult to fix the actual damage sustained by the State. Therefore, if there is late or improper completion of the Contract Activities the State is entitled to collect liquidated damages in the amount of \$5,000. and an additional \$100 per day for each day Contractor fails to remedy the late or improper completion of the Work.

Unauthorized Removal of Key Personnel will interfere with the timely and proper completion of the Contract, to the loss and damage of the State, and it would be impracticable and extremely difficult to fix the actual damage sustained by the State. Therefore, the State may assess liquidated damages against Contractor as specified below.

- The State is entitled to collect \$500. per individual per day for the removal of any Key Personnel without prior approval of the State.
- The State is entitled to collect \$500. per individual per day for an unapproved or untrained key personnel replacement.

## **13 Additional Requirements**

### **13.1 Environmental and Energy Efficiency Product Standards**

The Contractor must identify any energy efficient, bio-based, or otherwise environmentally friendly products used in the products. Contractor must include any relevant third-party certification, including the verification of a United States Department of Agriculture certified bio-based product label. Contractor must describe how products that meet these requirements are identified or otherwise labelled.

### **13.2 Hazardous Chemical Identification**

In accordance with the federal Emergency Planning and Community Right-to-Know Act, 42 USC 11001, *et seq.*, as amended, the Contractor must provide a Material Safety Data Sheet listing any hazardous chemicals as defined in 40 CFR §370.2, to be delivered. Each hazardous chemical must be properly identified, including any applicable identification number, such as a National Stock Number or Special Item Number.

The Contractor must identify any hazardous chemicals that will be provided under any resulting contract.

### 13.3 Mercury Content

Pursuant to MCL 18.1261d, mercury-free products must be procured when possible. The Contractor must explain if it intends to provide products containing mercury, the amount or concentration of mercury, and whether cost competitive alternatives exist. If a cost competitive alternative does exist, the Contractor must provide justification as to why the particular product is essential. All products containing mercury must be labeled as containing mercury.

### 13.4 Brominated Flame Retardants

The State prefers to purchase products that do not contain brominated flame retardants (BFRs) whenever possible. The Contractor must disclose whether the products contain BFRs. Contractor must describe how products that meet these requirements are identified or otherwise labelled.

### 13.5 Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

The Contractor must confirm that the provided products do not intentionally contain PFAS. This consists of all components of the provided products, including product packaging.

## 14 Service-Level Agreements (SLAs)

- A. The Contractor will be held accountable to meet the requirements and the service level requirements established in this Contract.
- B. The State reserves the right to reconsider or amend SLA amounts for split awards should they occur.

**Service Level Agreements for this Contract will be as follows:**

SLA Metric 1. Timely Deliveries	
<b>Definition and Purpose</b>	<p>The Contractor must ensure that items and quantities delivered are exactly the items, brands, and quantities on the Order Confirmation. No substitutions will be allowed without prior written permission by Program Manager and a Change Notice executed by the Contract Administrator.</p> <p>The entire order will be received on the same day unless a partial delivery has been approved in advance by the Program Manager.</p>

SLA Metric 1. Timely Deliveries	
<b>Acceptable Standard</b>	<ol style="list-style-type: none"> <li>1. All deliveries must occur in accordance with the approved delivery schedule for each Facility and Facility Receiving hours. See Section 2.3 time frames and 2.4 Delivery.</li> <li>2. Extenuating circumstances must be communicated by the Contractor to the Program Manager prior to the scheduled delivery date and time.</li> <li>3. Items, brands, and quantities delivered will match the Order Confirmation exactly.</li> <li>4. Signed and dated packing slips will be provided to purchasing agency at the time of delivery.</li> <li>5. The entire order must be delivered on the same day unless a partial delivery has been approved in advance by the Program Manager.</li> <li>6. Orders not received in their entirety, as determined by a review of the Data Sources, will be considered inaccurate.</li> </ol> <p>The acceptable standard is 100% compliance.</p>
<b>Credit Due for Failing to Meet the Service Level Agreements</b>	<ol style="list-style-type: none"> <li>1. \$100.00 may be assessed for each of the first five occurrences of non-compliance in a given calendar year.</li> <li>2. \$500.00 may be assessed beginning with the sixth occurrence of non-compliance and on each occurrence thereafter in a given calendar year.</li> </ol> <p>Extenuating circumstances will be reviewed by the Program Manager before any Service Credits are assessed.</p> <p>At the discretion of the State, these credits may be applied toward any payable due to the Contractor or be payable directly to the State. Payments made directly to the state will be completed within 10 days of notice of assessment.</p>

ALTEC INDUSTRIES INC

## **ALTEC GLOBAL RENTAL CO., INC.**

***Thank you for choosing Global Rentals for your equipment needs. To ensure that you receive the best possible service, we are providing this guide for your convenient reference.***

### **User's Responsibility:**

- ☐ Daily inspection and pre-op of unit. Post trip Inspection in compliance with FMCSR 396.11.
  - ☐ PM maintenance as outlined in the maintenance manual (inspections, lube, oil, filters and fluid levels).
- \*\*PLEASE NOTE:** the above two items are clearly detailed in the maintenance manual for this vehicle. Do not take possession of this unit without the operation and maintenance manuals, which are specifically published, for this vehicle.\*\*
- ☐ Ninety (90) Day Bit & Boom inspection in your possession. Applies to CAL-OSHA Reg.
  - ☐ Chassis and accessory items included in maintenance (winches, capstan drives, etc.).
  - ☐ Light bulbs, lenses, including marker and running lights and any broken glass on unit.
  - ☐ Damage to cab, body, equipment or the environment while in your possession.
  - ☐ Brake & Clutch: adjustments, including daily draining of water off Air Brake Systems.
  - ☐ Windshield wipers. Windshield chips should be noted on the Unit Condition Report.
  - ☐ Tires damaged due to punctures, cuts, or improper alignment or inflation.
  - ☐ Operator and operating supplies. **\*\*NOTE:** only persons trained on the safe and proper use of this equipment are allowed to operate the unit while it is in your possession.\*\*
  - ☐ Comply with all ANSI, OSHA, DOT and local regulations regarding safe operation of this equipment.
  - ☐ For any unit with an Indiana IRP license plate, the user agrees to track the miles driven in each state and report that information to Global on a routine basis or as requested by Global.

### **Global Rental Coverage of your Equipment**

- ☐ Utility components adjusted to manufacturer's specifications.
- ☐ Chassis and machine free of excessive fluid leaks.
- ☐ Unit delivered with a current DOT inspection. Local State Inspection is customer cost.
- ☐ Annual inspections including dielectric, stability, and crane certification.
- ☐ Repairs to accessory items, which may fail to operate properly while in your possession (winch, inverter, etc.), due to normal wear. Customer to pay damaged items.
- ☐ Tires replaced due to routine wear down to 4/32nd's of tread.
- ☐ Brakes (pad, linings, wheel seals) replaced due to routine wear at manufactures specified safety recommendations.
- ☐ Global has Several National OEM Service Programs available to provide convenience to Customers who need the above coverage's to keep their rental unit in excellent condition.

### **Unit Breakdown Service**

- ☐ For any repairs on the boom or chassis, please call Repair Central at **(844) 373-0319**. Repair Central's goal is to assist Global, minimize down time, and make sure the equipment is repaired in a timely fashion. Repair Central provides 24 hours a day, 7 days a week, 365 days a year service. No matter how remote the location, Repair Central specializes in getting the proper technicians out to repair the equipment.

### **Repairs performed by User**

- ☐ In the event that repair can be performed by your company and is not noted under User responsibilities, Global Rental can reimburse your company for performing such work. This can only be done with prior approval and a purchase order from Global Rental to document the work being done. You may contact your account manager or get pre-approval by calling the Global Rental corporate offices at **(800) 445-6295**, between 8 a.m. and 5 p.m. CST.

# **Global®**

Placeholder for Schedule B – Pricing

Please follow this link for  
Schedule B – Pricing:

<https://www.michigan.gov/dtmb/-/media/Project/Websites/dtmb/Procurement/Contracts/MiDEAL-Media/Equipment-Contracts-and-Sch-B/240000000160---Schedule-B-Pricing.pdf>

ALTEC INDUSTRIES INC

## **SCHEDULE C - INSURANCE REQUIREMENTS**

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### **Request For Proposal No. 230000002854**

Agricultural, Grounds, Turf, Earth Moving, and Roadside, Maintenance Equipment

- 1. General Requirements.** Contractor, at its sole expense, must maintain the insurance coverage as specified herein for the duration of the Term. Minimum limits may be satisfied by any combination of primary liability, umbrella or excess liability, and self-insurance coverage. To the extent damages are covered by any required insurance, Contractor waives all rights against the State for such damages. Failure to maintain required insurance does not limit this waiver.
- 2. Qualification of Insurers.** Except for self-insured coverage, all policies must be written by an insurer with an A.M. Best rating of A- VII or higher unless otherwise approved by DTMB Enterprise Risk Management.
- 3. Primary and Non-Contributory Coverage.** All policies for which the State of Michigan is required to be named as an additional insured must be on a primary and non-contributory basis.
- 4. Claims-Made Coverage.** If any required policies provide claims-made coverage, Contractor must:
  - a. Maintain coverage and provide evidence of coverage for at least 3 years after the later of the expiration or termination of the Contract or the completion of all its duties under the Contract;
  - b. Purchase extended reporting coverage for a minimum of 3 years after completion of work if coverage is cancelled or not renewed, and not replaced with another claims-made policy form with a retroactive date prior to the Effective Date of this Contract.
- 5. Proof of Insurance.**
  - a. Insurance certificates showing evidence of coverage as required herein must be submitted to [DTMB-RiskManagement@michigan.gov](mailto:DTMB-RiskManagement@michigan.gov) within 10 days of the contract execution date.
  - b. Renewal insurance certificates must be provided on annual basis or as otherwise commensurate with the effective dates of coverage for any insurance required herein.
  - c. Insurance certificates must be in the form of a standard ACORD Insurance Certificate unless otherwise approved by DTMB Enterprise Risk Management.
  - d. All insurance certificates must clearly identify the Contract Number (e.g., notated under the Description of Operations on an ACORD form).



- e. The State may require additional proofs of insurance or solvency, including but not limited to policy declarations, policy endorsements, policy schedules, self-insured certification/authorization, and balance sheets.
  - f. In the event any required coverage is cancelled or not renewed, Contractor must provide written notice to DTMB Enterprise Risk Management no later than 5 business days following such cancellation or nonrenewal.
- 6. Subcontractors.** Contractor is responsible for ensuring its subcontractors carry and maintain insurance coverage.
- 7. Limits of Coverage & Specific Endorsements.**

Required Limits	Additional Requirements
<b>Commercial General Liability Insurance</b>	
<b>Minimum Limits:</b> \$1,000,000 Each Occurrence \$1,000,000 Personal & Advertising Injury \$2,000,000 Products/Completed Operations \$2,000,000 General Aggregate	Contractor must have their policy endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds using endorsement CG 20 10 11 85, or both CG 20 10 12 19 and CG 20 37 12 19.
<b>Umbrella or Excess Liability Insurance</b>	
<b>Minimum Limits:</b> \$5,000,000 General Aggregate	Contractor must have their policy follow form.
<b>Automobile Liability Insurance</b>	
<b>Minimum Limits:</b> \$1,000,000 Per Accident	Contractor must have their policy: (1) endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds; and (2) include Hired and Non-Owned Automobile coverage.

Required Limits	Additional Requirements
<b>Workers' Compensation Insurance</b>	
<b>Minimum Limits:</b> Coverage according to applicable laws governing work activities.	Waiver of subrogation, except where waiver is prohibited by law.
<b>Employers Liability Insurance</b>	
<b>Minimum Limits:</b> \$500,000 Each Accident \$500,000 Each Employee by Disease \$500,000 Aggregate Disease	
<b>Garagekeepers Liability Insurance</b>	
<u>Minimal Limits:</u> \$100,000 Per Occurrence	Contractor must have their policy: (1) endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds; and (2) include Garage Keepers Legal Liability coverage.

- 8. Non-Waiver.** This Schedule C is not intended to and is not to be construed in any manner as waiving, restricting or limiting the liability of either party for any obligations under this Contract, including any provisions hereof requiring Contractor to indemnify, defend and hold harmless the State.

**State of Michigan, DTMB - Enterprise**

**Risk Management (ERM)**

\_\_\_\_\_  
Authorized ERM Signature

\_\_\_\_\_  
Authorized ERM Agent (Print or Type)

\_\_\_\_\_  
Date

# STATE OF MICHIGAN

Contract No. 240000000160

Agricultural, Grounds, Turf, Earth Moving, and Roadside Maintenance Equipment

## SCHEDULE D SPECIFICATIONS

Equipment - Purchase, Rent, and/or Lease			(Bidder must check the boxes below that apply)	
SPEC SECTION	PAGE	BID	NO BID	
1 C03-2001CD-23 Dump Body	2	X		
2 C03-2001LG-23 Lift Gate	4	X		
3 C03-2001SP-23 Snow Plow	5	X		
4 C03-2011CD-23 Dump Body TB FT	6	X		
5 C03-20CU11-23 Utility Body	9	X		
6 C03-3001CAP-23 Cap for Pickup	11	X		
7 C04-SDS-23 Stake Rack Body with Scissor Hydraulic Lift and Cab Protector	11	X		
8 C05-1601-23 Backhoe	14	X		
9 C36-0401-4T-23 Asphalt Heater-Hauler	16	X		
10 C36-Asphalt Recycler-23	18	X		
11 C38-0101 CTL-23 Skid Steer Track Loader	18	X		
12 C38-0101-23 Skid Steer Loader	19	X		
13 C38-0101AWS-23 Skid Steer Loader	20	X		
14 C38-0501LP-23 Fork Lift, Propane, 6,000 Lbs Capacity	21	X		
15 C54-0001-23 Concrete Saw	23	X		
16 C62-0101RB-23 Broom	23	X		
17 C67-008T-23 Trailer	25	X		
18 C67-20T LP-23 Trailer	26	X		
19 C70-0001-23 Welder-Generator	26	X		
20 C60-2001-16 Sand-Salt Spreader	27	X		
21 C62-0051-23 Street Sweeper	28	X		
22 C05-0901-23 Tractor Roadside	35	X		
23 C05-0902-23 Tractor Roadside - Bi-Directional	37	X		
24 C05-1001-23 Tractor Lawn Mower 2 Wheel steer	38	X		
25 C05-1002-23 Tractor Lawn Mower 4 Wheel Steer 48-54-60 in deck	39	X		
26 C05-1003-23 Zero Turn 60-72 in deck	40	X		
27 C06-1001-23 Utility Vehicle 6x4	42	X		
28 C06-1002-23 Utility Vehicle 4 Wheel Drive	42	X		
29 C-42-0026-23 Mower, 15 ft Road Side Mechanical Drive Rotary	43	X		
30 C-62-0101RB-23 Loader, 4 Wheel drive 2.25 Cubic Yard Minimum Capacity	44	X		
31 38-0201HD.23 Loader, 4 Wheel drive, Articulated, 3.0 Cubic Yard Minimum Capacity	46	X		
32 05-00051.23 Crawler Dozer (30hp & up)	49	X		
33 30-00LT23 Light Tower, Trailer Mounted Diesel Engine	56	X		
34 38-0501D-23 Fork Lift, Diesel Engine, 8,000 Lbs Capacity	57	X		
35 C56-051.23 Sewer and Catch Basin Cleaner Unit	58	X		
36 C42-0027.23 Mower, 15 ft Road Side Hydraulic Drive Rotary	66	X		
37 C10-010DD.22 Digger Derrick, with platform Body and FG through Box Light Tower	67	X		
38 C10-034AT.22 Aerial Tower, 34 Foot Working Height and Utility Body	74	X		
39 C10-045AT.22 Aerial Tower, 45 Foot Working Height and Utility Body	80	X		

**The specifications below are considered to be samples of the type of equipment needed. Please be as specific as possible as to the specifications of your equipment offering. Make sure to include Make and Model and to list ALL deviations with sample specifications. The State must approve any deviations to this specification. Bidders must bid on at least one spec (multiple specs is preferred).**

37. - Specification # C10-010DD.22		Bidder Response (Indicate acceptance and/or provide alternate)
DIGGER DERRICK, INSULATED, 50 FOOT SHEAVE HEIGHT, WITH PLATFORM BODY AND FIBERGLASS THROUGH BOX LIGHT TOWER		
All items specified and furnished by the Contractor shall be new of the latest model in current production and shall include all standard features normally offered with these models		
	Cab & Chassis - supplied by MDOT	Make and Model
	Cab & Chassis will be 2024 Freightliner 114SD extended cab 6x4	YES
	GVWR will be 54,000 pounds	YES
	Front GAWR will be 14,000 pounds	YES
	Rear GAWR will be 40,000 pounds	YES
	Wheel base will be 195 inches	YES
	Cab to axle length will be 120.0 inches	YES
	Axle to end frame will be 89 inches	YES
	Transmission will be an Allison 4500RDS_P with PTO provision	YES
	Engine will be a Detroit Diesel 13, 12.8L liter rated @ 450 HP	YES
	Unit shall be full of fuel when picked up by vendor, and shall be returned to MDOT in the same manner	YES
1.0	Base Specifications:	YES
1.1	All holes in cab and chassis frame rails shall be drilled or punched.	YES
1.2	There shall be no flame cutting or welding on the frame side rails	YES
1.3	Digger derrick shall have all exposed metal surfaces, finish coated Omaha Orange DuPont Imron #43106-X or equal	YES
1.4	Flat bed body shall have all bare metal surfaces pre-cleaned and prepped prior to applying a compatible red oxide or zinc chromate primer	E-COAT PRIMER
1.5	When painting continues over a manufacture's standard paint, metal prepping and primer may be omitted, providing an acceptable bond can be achieved	YES
1.6	Utility body shall be painted Omaha Orange, DuPont Imron #43106-X or equal	YES
1.7	All components mounted below frame rails shall be painted black	YES
1.8	Cab to end frame length on all body installations shall be the same length as the body being mounted, plus the length of any setback	YES
1.9	All items removed from the cab and chassis by body installer (frame ends, fuel tanks mirrors, etc.) remain the property of the State of Michigan are to be returned with the truck	YES
1.10	All wires passing through holes in metal or non-metal wearing surfaces, which could cause wear of the insulation, shall be adequately protected by rubber or plastic grommets, and/or non-metal conduit.	YES
1.11	Ends of all wires shall be adequately anchored to prevent loosening	YES
1.12	All electrical connections shall be soldered and enclosed in heat shrink or in water tight junction blocks	YES
1.13	Scotch locks and wire nuts are not acceptable	YES
1.14	All wire connections from the utility body and tower to the chassis must be connected to the body up fit module if provided	YES
1.15	Body vendor will install body, mud flaps, lights as necessary	YES
1.16	Mud flaps will be plain with no advertising on either side	YES
1.17	No frame extensions will be accepted	YES
	Digger Derrick:	YES

<b>1.18</b>	50 Foot hydraulic derrick, rear mount	47'
<b>1.19</b>	With a turntable winch	YES
<b>1.20</b>	Maximum sheave height 49.3 ft.	46.4'
<b>1.21</b>	Maximum horizontal reach 40.3 ft.	37.3'
<b>1.22</b>	Maximum digging radius 28.5 ft.	26.7'
<b>1.23</b>	Boom articulation – from -20 to 80 degrees	YES
<b>1.24</b>	<b>Performance Ranges per the following:</b>	YES
<b>a.</b>	<b>L/R Fully Retracted 2<sup>nd</sup> Ext. 3<sup>rd</sup> Ext. Both Ext.</b>	YES
<b>b.</b>	10' 11,090lbs 10,080lbs 10,470lbs 9,820lbs	YES 11,570 10,550 10,900 10,230
<b>c.</b>	15' 7,010lbs 6,220lbs 6,630lbs 6,040lbs	YES 7,430 6,650 7,020 6,410
<b>d.</b>	20' 4,710lbs 4,450lbs 4,860,lbs 4,340lbs	YES 4,850 4,840 5,200 4,690
<b>1.25</b>	<b>These capacities are non-bare boom lift capacities</b>	YES
<b>1.26</b>	Unit meets or exceeds ANSI 10.31-1995.	YES
<b>1.27</b>	Unit serial number placard clearly states compliance	YES
<b>1.28</b>	Insulated "46KV and below"	YES
	<b>Hydraulic Overload Protection System:</b>	YES
<b>1.29</b>	Activates when unit is exposed to overload condition	YES
<b>1.30</b>	System prevents actuation of all functions that could add to the overload condition including:	YES
<b>a.</b>	Boom Lower	YES
<b>b.</b>	Intermediate Boom Extend	YES
<b>c.</b>	Third Stage Boom Extend	YES
<b>d.</b>	Winch Raise	YES
<b>e.</b>	Digger Dig	YES
<b>1.31</b>	System automatically resets when overload condition is relieved	YES
<b>1.32</b>	Hydraulic side load protection relieves overload conditions by allowing rotation system to back drive	ELECTRONIC SIDE LOAD PROTECTION
	<b>Load Indicator Gauge:</b>	YES
<b>1.33</b>	Located at the main control panel, displays the percentage of total allowable lifting capacity being utilized	YES
<b>1.34</b>	By use of this gauge the operator is aware of the hydraulic and structural design rating of the derrick and proximity to the limits during operation	YES
	<b>Electronic Controls:</b>	YES
<b>1.35</b>	Intuitive electronic controls with superior metering	YES
<b>1.36</b>	Includes a diagnostic port which by connecting a hand held service tool, provides trouble shooting code read outs and the ability to calibrate function speeds and control sensitivity	YES
<b>1.37</b>	Electronic controls eliminate the risk of high pressure hose leaks near the operator and leak points are minimized throughout the machine	YES
<b>1.38</b>	Manual override of the electronically controlled boom, winch and digger functions at the main control valve	YES
	<b>Standard/Low Speed Selector:</b>	YES
<b>1.39</b>	Allows operator to select standard or low speed operation	YES
<b>1.40</b>	In standard mode, each function operates at normal speeds	YES
<b>1.41</b>	In low speed the maximum operating speed of each function is slower providing finer feathering capability	YES
<b>1.42</b>	The function is separate from engine throttle control	YES
	<b>Hydraulic System:</b>	YES
<b>1.43</b>	Closed center hydraulic control valve for boom, winch, and digger functions are operated and controlled by a proportional pilot system which provides full metering and feathering characteristics	YES

1.44	Closed center hydraulic system with maximum flow of 43 gpm for simultaneous operations of multiple functions	YES
1.45	Because flow is provided by a single source piston pump maximum flow is available to any combinations of functions including simultaneous operations of the boom and digger/winch functions and flow combining is not necessary	YES
1.46	System is designed with compensators in each valve for smooth transitions between functions	YES
1.47	Maximum system pressure is 3000 psi	YES
1.48	Hydraulic fluid shall be "Glacial Blue Type" (Meets MilSpec 5606),	YES
1.49	Hydraulic tank will be labeled "Glacial Blue Type"	YES
1.50	Hydraulic reservoir shall be located in the aerial unit pedestal with a minimum of 60 gallon capacity	RESERVOIR WILL NOT BE MOUNTED IN CARGO AREA OR BETWEEN BOOM REST AND CAB, PROVIDING IMPROVED SERVICE ACCESS FOR RESERVOIR AND INSPECTIONS INSIDE PEDESTAL.
1.51	The reservoir shall be equipped with a drain plug, filler cap, air filter vent, sight level gauge, baffle system, and shut off valve at the outlet	YES
1.52	An adequate opening shall be provided by a door or cover to allow access to internal components	YES
1.53	Full flow ball valves shall be installed to prevent fluid lose during filter changes	YES
1.54	Hydraulic filters shall be 10-micron located in both the suction and return lines	FILTER, 250 MICRON PUMP INLET SCREEN WITH MAGNETIC SUCTION
1.55	Proper plumbing practices shall be exercised to eliminate restrictions and excessive back pressure	YES
1.56	Hydraulic hoses shall extend and retract in tract carriers enclosed by the booms	YES
1.57	Hydraulic hoses shall have a 4 to 1 safety factor from operating to burst pressure	YES
1.58	Hydraulic system shall be driven by power take off(PTO) to be a Chelsea 277 hot shift PTO with overspeed control, or equivalent	YES
1.59	PTO shall be wired to only allow it to engage if parking brakes are set	YES
1.60	PTO control shall be dash mounted electrical switch	YES
1.61	PTO engaged light will be provide in the cab	YES
	<b>Boom:</b>	YES
1.62	Fiberglass hydraulic upper boom and boom tip with provisions for platform attachment	YES
1.63	Transferable hydraulic pole guides and steel boom flares at the boom tip with adjustable alignment guides include adjustable alignment guides	YES
1.64	Pole guides hydraulic cylinder driven open/close and tilt includes double pilot operated check valves to support poles in both tilt directions	YES
1.65	No derrick tong protectors	YES
1.66	Pole guide tilt interlock that prevents the upper boom from extending when the transferable guides are attached to the intermediate boom until the proximity sensors detect that the guides are tilted all the way up and out of the way.	YES
1.67	Boom storage protection system shall include a proximity switch on main boom which detects the boom supports as it is being stored and limits the boom down pressure to avoid placing excessive down force on boom stow bracket	YES
1.68	Cylinders rods are chrome plated and ends are threaded and welded	YES
1.69	Augur stow protection limits the upward travel of the auger as it reaches the top of the auger stow latch to prevent an over stow condition	YES
1.70	Two-part load line attachment point on intermediate boom	YES
1.71	All extending booms utilize self lubricating, low friction, slide bearings	YES
1.72	Rear mounted pedestal with all outer race rotation bearing bolts accessible from outside the pedestal to facilitate torque inspection	YES
	<b>Winch:</b>	YES



1.73	Turntable mounted winch with self-locking worm gearbox with locking counterbalance valves to provide reliable load holding	YES
1.74	Winch normal speed with 15,000 lb. bare drum capacity	YES
1.75	Full hydraulic line speed is 21.0 feet per minute on first layer, and 39.0 feet per minute on full drum	LAYER 1: 34.7 FPM LAYER 2: 41.3 FPM LAYER 3: 47.8 FPM
1.76	Winch rope for turntable winch, rated for winch capacity	YES
1.77	Load line swivel hook, 8-1/2 ton (Crosby or equivalent)	YES
	<b>Digger:</b>	YES
1.78	Two speed mechanical shift, 12,000 ft-lb.	YES
1.79	Includes a rapids reversing shake feature for quick and convenient cleaning of dirt from the auger and all of the components necessary to operate digger installed	YES
1.80	Digger storage located on the street side	YES
1.81	Nylon auger wind up strap	YES
1.82	2 5/8 inch hex output shaft with 2 5/8 inch hex extension shaft(kelly bar)	YES
1.83	18 inch auger assembly to fit 2 5/8 inch hex shaft	YES
	<b>Bucket:</b>	YES
1.84	Digger is rated for bucket use, unit is designed and tested for combined use as a digger derrick and personnel handler per ANSI standards	YES
1.85	Bucket will be a fiberglass pin on unit	YES
1.86	Bucket will have a 300 pound capacity	YES
1.87	Bucket shall be 24 inch x 24 inch x 42 inch,	YES
1.88	Bucket shall have interior/exterior bucket access steps	YES
1.89	The bucket shall not have any holes for drainage or other wise	YES
1.90	Bucket shall include a vinyl protective cover	YES
1.91	Bucket liner rated at 50kV shall be provided	YES
1.92	Scuff pad, liner 24 x 24 inches for use with liner	YES
1.93	An eye type attachment point shall be provided on the boom for operator's body harness	YES
1.94	A bucket storage mount will be provided to store the bucket when it is removed from the boom	YES
	<b>Controls:</b>	YES
1.95	No hard wired upper controls and no tool circuit at boom tip	YES
1.96	Toggle throttle system - single, three position switch in control panel, high, medium, or low throttle(at lower controls)	YES
1.97	Single Station for installation on a swivel arm at rear	YES
1.98	Main control station to completely swivel from center and be capable of being used at both sides rear of truck to include 12 feet of cable, and is capable of being locked into position	YES
1.99	Red emergency stop plunger	YES
2.00	Boom, winch, and digger control handles which include mechanical interlocks that prevent inadvertent control handle movement	YES
2.01	Boom, winch, and digger control handles also include electrical interlocks that activate the hydraulic dump valve that provides hydraulic flow to main control valve	YES
2.02	Steel console cover, to include a hold down strap in front and at the rear so cover will not slam shut while operator is working	YES
	<b>Radio remote controls:</b>	YES
2.03	Full function for use as lower or upper controls	YES
2.04	Must be used in docking station for use as upper controls	YES
2.05	Radio remote controls can be a stand alone system or can be used in conjunction with other control systems	YES
2.06	Radio remote control layout, push lever to right and boom rotates counter-clock wise	YES
2.07	Docking station for using main radio remote control at boom tip for upper controls	YES

2.08	The docking station disables the digger and pole guide functions and actuates an interlock system to help prevent unintentional movement of the boom while the unit is being operated from the bucket	YES
2.09	Remote control docking station in cab with "out of cradle light on the dash"	YES
2.10	Electronic side load protection shall include a indicator gauge and lamp	YES
2.11	Float system will allow boom to rotate while digging and shall include alarm and visual indicator	YES
	<b>Outriggers:</b>	YES
2.12	Outriggers shall be A-frame, folding shoe style	YES
2.13	Primary and secondary outriggers shall have a 153 inch maximum spread	YES
2.14	Both front and rear outriggers shall be hydraulic, telescopic, enclosed H-frame type	A-FRAME TYPE OUTRIGGERS, SAME AS 2.12
2.15	Rear outriggers shall be integral with the mounting base of the aerial manlift	OUTRIGGERS AND UNIT ARE CONNECTED BY SUBBASE ASSEMBLY
2.16	Penetration at maximum extension shall be 6.5 inches (for standard installations on a 40 inch frame height)	YES
2.17	Standard shoe dimensions shall be 14 x 15.25 inches	YES
2.18	Hydraulic controls for each outrigger cylinder will be supplied at the rear of the chassis so that the outriggers can be seen while in operation	ELECTRIC OVER HYDRAULIC CONTROLS
2.19	Outrigger/unit selector control valve shall be supplied	YES
2.20	95 dba audible alarm shall be activated when out riggers are in motion, either in or out	YES
2.21	An outrigger/boom interlock system shall prevent any function until the outriggers contacts the ground and outrigger retraction before boom is properly stowed	OUTRIGGERS NEED TO BE PARTIALLY DEPLOYED, NOT NECESSARILY CONTACTING GROUND
2.22	Outrigger indicator light on dash to indicate outriggers are not stowed for transport	YES
2.23	A slope meter shall be furnished and mounted in the dash for the truck	YES
2.24	Slope meters shall be furnished and mounted on the side and rear of the truck	YES
	<b>Unit and Hydraulic Accessories:</b>	YES
2.25	Spring loaded hose reel, with 50 foot hose capacity	YES
2.26	Hose reel shall be mounted on riser just behind tool box so that operator can see the outrigger interlock and so the control console can swing freely and not hit the hose reel	YES
2.27	50 foot conductive hoses	ONLY NON-CONDUCTIVE HOSE WILL BE SUPPLIED FOR BETTER OPERATOR SAFETY
2.28	Hoses shall include quick disconnects and dust caps (male pressure, female return)	YES
2.29	Pole puller assembly with 5/8 inch chain and puller plate	YES
2.30	Pole puller storage bracket installed on curb side front outrigger housing	YES
2.31	Flow divider variable for the installation of tools at tail shelf	YES
2.32	A "boom raised" light shall be mounted in the dash to illuminate when boom is not in the stowed position	YES
2.33	"Boom raised" light shall be activated by an epoxy sealed, magnetic proximity switch, Grainger part # 6C834 or Omron type TL-W20ME2 12V - 24V No Exceptions	YES
	<b>Platform/Flat Bed Body:</b>	YES
2.34	Basic body fabricated from A40 grade 100% zinc alloy coated steel	YES
2.35	158 inch estimated flat bed length	YES
2.36	96 inch body width	YES
2.37	1/8inch (12 gauge) tread plate floor	YES
2.38	Heavy gauge welded steel frame constructed with structural channel crossmembers and tread plate floor	YES
2.39	D-ring recessed in body floor with 360 degree rotation, two street side and two curb side in flatbed, in a square shape, behind T-box, to include drainage holes	YES
2.40	4 inch high flatbed (no cross storage available)	YES

2.41	Stake pockets on sides only of flatbed, to be installed on 24 inch centers inside of frame	YES
2.42	Custom cargo retaining boards 2 inch x 6 inch black composite boards, one on each side of flat bed and at side ladder access point	YES
2.43	Fender panels are either roll formed or have neoprene fenderettes, with cut outs as required for tire clearance	NOT APPLICABLE WITH FLATBED BODY TYPE
2.44	Custom access steps, pull out ladder steps installed at curb side for access walkway, shall have a means to lock in place for transport	YES
2.45	Two (2) Steel U-shaped grab handles, one each side at rear of flatbed	YES
2.46	Subbase storage with drop down door (paddle latch) at rear	YES
2.47	Long tool storage in rear pedestal with inset subbase stop at 10 feet	YES
2.48	Undercoat body	YES
	<b>Storage Compartments:</b>	YES
2.49	Gel coated fiberglass T-box/saddle box suitable for installing in conjunction with a platform body on any tandem rear axle chassis with a CT dimension of 120 inches useable, traverse in first verticals only, second verticals are saddle packs	YES
2.50	42 inch overall body length	YES
2.51	96 inch body width	YES
2.52	Custom T-box/saddle box compartment height 48 inches	YES
2.53	Custom first vertical compartment, mounted on street side with one plain shelf at the top of the compartment (transverse), open to the curb side. Six locking swivel hooks (2-2-2 below shelf)	YES
2.54	Second vertical street side compartment shall have an adjustable shelf with removable dividers on four (4) inch centers	YES
2.55	Custom first vertical compartment, mounted on curb side with one plain shelf at the top of the compartment (transverse), open to the street side. Three drawers below shelf. One plain sliding drawer, one sliding drawer with removable dividers on four (4) inch centers, one divided sliding drawer with stationary dividers full depth of drawer center with removable dividers on four (4) inch centers each side of divider	YES
2.56	Second vertical curb side compartment shall have an adjustable shelf with removable dividers on four (4) inch centers	YES
2.57	18 inch body compartment depth	YES
2.58	Automotive type non-porous door seals fastened to the door facing	YES
2.59	Doors are all full, double paneled, self-sealed with built in drainage for maximum weather tightness	REINFORCED, DOUBLE-LAMINATED FIBERGLASS DOORS
2.60	Standard doors with door post(s) and partitions between compartments	YES
2.61	Integrated door header drip rail at top for maximum weather protection	EXTRUDED ALUMINUM DRIP RAIL
2.62	Stainless steel rotary paddle latches with keyed locks	YES
2.63	Custom body door holders vinyl coated cable door stops	YES
2.64	Aluminum rock guards installed on each front corner of body	YES
2.65	One (1) sloped grab handle attached to the left hand side of the second (2) curb side vertical compartment as a grab handle for 3 point access at Curb side access walkway ladder	YES
2.66	One side opening steel box, approximately 42 inches long x 30 inches high, 27 inches deep	YES
2.67	One side opening steel box, approximately 42 inches long x 30 inches high, 27 inches deep box to be installed next to pedestal on curb side, mounted flush with the side of truck with 2 CS (barn style opening doors)	YES
2.68	Hinge rods will be stainless steel extending the full length of the door	ON BOXES ONLY, NOT ON BODY
	<b>Miscellaneous Accessories:</b>	YES
2.69	Four (4) shovel holders to be installed, two (2) mounted on each side between body and cab	YES

<b>2.70</b>	Fold up operators platform at T-stand control console, one street side and one curb side at rear	YES
<b>2.71</b>	Lower boom rest weldment	YES
<b>2.72</b>	Wheel chocks, two sets (pair ea.), rubber, with metal hairpin style handle 8.75" L x 7.75" W x 5.00" H	YES
<b>2.73</b>	Wheel chock, two sets of aluminum holders mounted under each side of the body near wheels	YES
<b>2.74</b>	Composite plastic (or aluminum) outrigger pads, and four, (4) 24" X 24" X 1" with four (4) wood outrigger pads 24" x 24"x 3"	YES
<b>2.75</b>	Four (4) aluminum outrigger holders mounted under the body, two (2) on each side of body	YES
<b>2.76</b>	Post style cone holder (holds up to four 15" x 15" large cones) installed on street side front outrigger housing	YES
<b>2.77</b>	Cone holder underslung style, consists of two rings and bungee cord (holds up to four 15" x 15" large cones) installed on street side beneath rear of tail shelf	YES
<b>2.78</b>	Heavy duty cargo coating, cargo area floor and tail shelf black Gatorhyde applied to flatbed walking surface, rear of flatbed, including light channel, folding operators stations, pintle mounting tubes, ETC.	YES
<b>2.79</b>	Triangular reflector kit	YES
<b>2.80</b>	10lb fire extinguisher with heavy duty bracket installed	YES
<b>2.81</b>	Vinyl manual pouch for storage of all operator and parts manuals	YES
<b>2.82</b>	Multi point grounding system	YES
	<b>Hitches:</b>	YES
<b>2.83</b>	ICC (underride protection) bumper shall be installed at rear of truck	YES
<b>2.84</b>	T-125 style pintle hitch (30,000 lb, MGTW with 6,000 lb MVL)	YES
<b>2.85</b>	Glad hands at rear, straight type	YES
<b>2.86</b>	Trailer hitch shall be receiver type, class IV	YES
<b>2.87</b>	Two 3/4 inch D-rings installed for trailer safety chains	YES
<b>2.88</b>	Eyelet for trailer breakaway cables	YES
<b>2.89</b>	Per MDOT supplied - Trailer Wiring Diagram, trailer connector shall be 7-way round pin Berg type , mounted at rear of frame, wired for turn signals independent of stop, compatible with trailers that have amber or side turn lamps, provided and installed by vendor	YES
	<b>Electrical, Lighting:</b>	YES
<b>2.90</b>	Electric moisture resistant back -up alarm, 95 dba sound level shall be provided	YES
<b>2.91</b>	All compartments will have white LED strip lighting with a master switch and a pilot light in the cab, fused separately	YES
<b>2.92</b>	Light channel installed at rear of unit	YES
<b>2.93</b>	All exterior lights on body will be LED type and conform with Motor Vehicle laws of the State of Michigan and include	YES
<b>a</b>	Clearance	YES
<b>b</b>	Stop	YES
<b>c</b>	Tail	YES
<b>d</b>	Turn	YES
<b>e</b>	Back up	YES
	<b>Work/strobe light type and placement:</b>	YES
<b>2.94</b>	All strobes lights are to be a combination Amber/Green light. All strobe lights to be synchronized together. Flash pattern to be amber quad fast flash, with a single green slow flash	YES
<b>2.95</b>	Four (4) L.E.D. corner strobe lighting to truck. Two (2) in rear light channel and Two (2) in front grille area. To have separate master switch located in chassis cab. Soundoff # EMPC2STS4 - LED or equivalent	YES
<b>2.96</b>	Two (2) L.E.D strobe lights mounted on both sides of the body, Install on same master on/off switch as the 4 corner strobes. Soundoff # EMPC2STS4 - LED or equivalent	YES

<b>2.97</b>	Two (2) mini light bars to light support bar on both Curb side and Street side of boom rest. Lights to be visible from front, rear and sides of truck. To have separate on/off master switch located in chassis cab. Soundoff # ENRMB000EN L.E.D. mini light bar or equivalent.	YES
<b>2.98</b>	Four (4) Whelen L.E.D perimeter lights. Two mounted just under mini light bars on both curb side and street side mounted all the way to the outer edge to eliminate shadows and two mounted at rear just under the tail shelf on both the curb side and street side . to have separate master switch located in chassis cab. Whelen # PELCB perimeter lights or equivalent.	YES
<b>2.99</b>	Two (2) Reverse/Work L.E.D Flood lights in rear chassis frame rails. To automatically come on when chassis is in reverse and to have separate on/off switch located in chassis cab. Whelen # PFBS6 work lights or equivalent	YES
<b>3.00</b>	Two (2) Work Lights L.E.D. Flood lights. One (1) mounted on light support bar facing cargo area. One (1) mounted at rear facing tail shelf area. To have separate master on/off switch located in Chassis Cab. Whelen # PFBS6 work lights or equivalent	YES
<b>3.01</b>	One (1) Go-Light mounted just below upper strobe light on Curb Side with WIRELESS chassis control and WIRELESS handheld control. Go-light Model # 20074 or equivalent	YES
	<b>Miscellaneous:</b>	YES
<b>3.02</b>	A transport height placard indicating the overall stowed height of the completed vehicle shall be mounted on the dash in clear view of the operator	YES
<b>3.03</b>	Dielectric test unit according to ANSI requirements	YES
<b>3.04</b>	Stability test unit according to ANSI requirements	YES
<b>3.05</b>	A dated inspection sticker shall be installed inside rear window of truck	YES
<b>3.06</b>	Manufactures standard warranty	YES
<b>3.07</b>	Provide 8 hours of operator training, at a time and location determined by the State after unit has been accepted and is ready to be placed into service	YES
<b>3.08</b>	2 - Parts manual	YES
<b>3.09</b>	2 - Service manual	YES
<b>3.10</b>	2 - Operators manual	YES
<b>3.11</b>	1 - Safety & training video	YES
<b>DIGGER DERRICK WITH PLATFORM BODY AND FIBERGLASS THROUGH BOX LIGHT TOWER</b>		
	<b>Make Offered:</b>	ALTEC
	<b>Model Offered:</b>	DM47E-TR

38. - Specification # C10-034AT.22		Bidder Response (Indicate acceptance and/or provide alternate)
Aerial Tower, Non-Insulated Boom 34 Foot Working Height and Utility Body		
All items specified and furnished by the Contractor shall be new of the latest model in current production and shall include all standard features normally offered with these models		
	Cab & Chassis - supplied by MDOT	Make and Model
	Cab & Chassis will be 2024 Ford F 450 DRW, Crew Cab, 4x4	YES
	GVWR will be 16,500 pounds	YES
	Torqshift six-speed automatic transmission with a live PTO	YES
	Engine will be a 7.3 liter V8 gas engine	YES
	Cab to axle length will be 84 inches	YES
	Unit shall be full of fuel when picked up by vendor, and shall be returned to MDOT in the same manner	YES
1.0	Base Specifications:	YES
1.1	All holes in cab and chassis frame rails shall be drilled or punched.	YES
1.2	There shall be no flame cutting or welding on the frame side rails	YES
1.3	Aerial tower shall have all exposed metal surfaces, except internal boom extensions, finish coated Omaha Orange DuPont Imron #43106-X or equal	YES

1.4	Utility body shall have all bare metal surfaces pre-cleaned and prepped prior to applying a compatible red oxide or zinc chromate primer	YES
1.5	When painting continues over a manufacture's standard paint, metal prepping and primer may be omitted, providing an acceptable bond can be achieved	YES
1.6	Utility body shall be painted Omaha Orange, DuPont Imron #43106-X or equal	YES
1.7	All components mounted below frame rails shall be painted black	YES
1.8	Cab to end frame length on all body installations shall be the same length as the body being mounted, plus the length of any setback	YES
1.9	All items removed from the cab and chassis by body installer (frame ends, fuel tanks mirrors, etc.) remain the property of the State of Michigan and are to be returned with the truck	YES
1.10	All wires passing through holes in metal or non-metal wearing surfaces, which could cause wear of the insulation, shall be adequately protected by rubber or plastic grommets, and/or non-metal conduit.	YES
1.11	Ends of all wires shall be adequately anchored to prevent loosening	YES
1.12	All electrical connections shall be soldered and enclosed in heat shrink or in water tight junction blocks	YES
1.13	Scotch locks and wire nuts are not acceptable	YES
1.14	All wire connections from the utility body and tower to the chassis must be connected to the body up fit module if provided	YES
1.15	Body vendor will install body, mud flaps, lights as necessary	YES
1.16	Mud flaps will be plain with no advertising on either side	YES
1.17	No frame extensions will be accepted	FRAME EXTENSIONS WILL BE REQUIRED ON FORD CHASSIS IN ORDER TO PROVIDE TOWING AND ICC PROTECTION, INSTALLED AFT OF FORD OEM FRAME RAILS
	<b>Aerial Manlift:</b>	YES
1.18	Tower will have a 34 foot working height	40.3' WORKING HEIGHT
1.19	Bucket will have a 350 pound capacity	YES
1.20	Main boom shall be constructed of 6 inch x 8 inch rectangular high strength steel	YES
1.21	The hose carrier system shall be a multi-link assembly with space to carry hoses and wiring to operate above minimum bend requirements	YES
1.22	Minimum travel of the main boom shall allow the operator to place the basket on the ground to reach the rear tail-shelf and to allow access to the compartments of the body without leaving the bucket	YES
1.23	Upper and lower support wear pads shall be 1/4 inch thick UHMW polyethylene	YES
1.24	Side support wear pads shall be threaded adjustable wear pads made of nylon	YES
1.25	Wear pads shall be replaceable without disassembly of boom sections	YES
1.26	Telescoping inner boom shall be made from 5 inch x 7 inch aluminum housed within the outer boom	INNER BOOM IS STEEL AND HOUSED IN OUTER BOOM
1.27	The inner wear pads shall be of threaded adjustable nylon	YES
1.28	A hydraulic cylinder shall accomplish the telescopic action of the extension boom, The use of cables or chains to extend or retract is not acceptable	YES
1.29	Pedestal shall be a structural box shaped and include the hydraulic components	PEDESTAL IS CONSTRUCTED OF CYLINDRICAL TUBING WITH HYDRAULIC RESERVOIR AND DC PUMP MOUNTED ON THE SIDE
1.30	An adequate opening shall be provided by a door or cover to allow access to internal components	YES
1.31	A hydraulic reservoir fill indicator shall be clearly visible and labeled to indicate the level of the oil	YES



<b>1.32</b>	The pedestal shall be machined flat for installation of the shear ball rotation bearing	YES
<b>1.33</b>	The pedestal structure must be of a single piece design.	YES
<b>1.34</b>	Turntable shall be designed to resist all torque loads	YES
<b>1.35</b>	A shear ball rotation bearing shall be required	YES
<b>1.36</b>	Bearing races shall be heat treated and sealed to prevent entry of dirt and moisture and be equipped with readily accessible zerk fittings	RACES ARE ELECTRIC INDUCTION HARDENED
<b>1.37</b>	Rotation shall be driven hydraulically by a worm and spur gear	YES
<b>1.38</b>	A means of adjustment shall be included to provide for proper gear backlash	YES
<b>1.39</b>	Rotation system shall be self locking in the event of a hydraulic system failure	YES
<b>1.40</b>	The input shaft shall be machine with an extended hexagon design to allow for manual rotation	YES
<b>1.41</b>	Rotation shall be continuous in either direction	ROTATION IS NON-CONTINUOUS
<b>1.42</b>	A rotation manifold shall provide for hydraulic functions	YES
<b>1.43</b>	Each port shall be separated by O-rings	YES
<b>1.44</b>	The inner core of the manifold should be attached to the turn table and allow for maintenance of all hoses without removing guards for service or inspection	YES
<b>1.45</b>	The outer case shall be attached securely to the pedestal to prevent rotation	YES
<b>1.46</b>	Sub-frame shall be secured to the vertical section of the vehicle frame and provide adequate strength to withstand the load of the aerial lift	YES
<b>1.47</b>	A boom support shall be provided to support the aerial lift booms in the transport position	YES
<b>1.48</b>	An over the center clamping device shall secure the booms to the support for road transport	YES
<b>1.49</b>	The hydraulic system shall be designed as an open center hydraulic system	YES
<b>1.50</b>	All hydraulic components including the 7 gallon hydraulic reservoir shall be housed within the aerial lift pedestal	RESERVOIR MOUNTED TO THE SIDE OF THE PEDESTAL ALLOWING IMPROVED ACCESS TO HYDRAULIC COMPONENTS AND INSPECTION ACCESS AT PEDESTAL
<b>1.51</b>	The reservoir shall be equipped with a drain plug, filler cap, air filter vent, sight level gauge, baffle system, and shut off valve at the outlet	YES
<b>1.52</b>	A 10 micron return filter shall be installed as close to the reservoir as possible and must be accessible for maintenance	YES
<b>1.53</b>	A 100 micron suction strainer shall be installed on the inlet to the pump , with a shut-off ball valve for ease of service	YES
<b>1.54</b>	Hydraulic tool circuits will be provided at the basket for operator use	YES
<b>1.55</b>	A pressure relief valve must be built into the system to prevent overload and set at 2,000 psi	YES
<b>1.56</b>	Aerial lift shall be equipped with bucket and turntable mounted control stations	LOWER CONTROLS TO BE PENDANT CONTROLS MOUNTED INSIDE A COMPARTMENT
<b>1.57</b>	The controls shall use full pressure proportional hydraulic valves	YES
<b>1.58</b>	When either control is released, boom movement shall stop and oil flow shall be redirected to the reservoir	YES
<b>1.59</b>	Bucket mounted control station shall permit the operator to control all boom movements, chassis start and stop controls, and emergency backup functions	YES
<b>1.60</b>	The turntable mounted lower control valve shall override the upper control valve and shall be capable of maintaining override of the upper control valve while unattended	YES
<b>1.61</b>	The aerial lift shall be powered by a hydraulic pump which produces up to 2 gpm	YES
<b>1.62</b>	The hydraulic system shall also include a 12 volt DC emergency backup system with a motor and pump	YES

<b>1.63</b>	All hydraulic hoses shall be placed within a cable track located inside of the main boom and be protected against abrasion, twisting and normal wear	YES
<b>1.64</b>	Hydraulic hoses shall have a 4 to 1 safety factor from operating to burst pressure	YES
<b>1.65</b>	Hydraulic fluid shall be "Glacial Blue Type" (Meets MilSpec 5606)	YES
<b>1.66</b>	Hydraulic tank will be labeled "Glacial Blue Type"	YES
<b>1.67</b>	Main boom will have a double action lift cylinder with a single acting holding valve mounted on the cylinder base	YES
<b>1.68</b>	Extension boom will have a double action cylinder with a double acting holding valve	YES
<b>1.69</b>	Hydraulic cylinders shall have welded and threaded end caps for maximum safety	YES
<b>1.70</b>	Piston shafts shall be highly polished chrome finish	YES
<b>1.71</b>	Walk in bucket shall be 24 inch x 30 inch x 42 inch, molded fiberglass with door that opens to curb side	PLATFORM TO BE 26 X 26 X 42
<b>1.72</b>	Bucket shall be side mounted	YES
<b>1.73</b>	The bucket shall be automatically leveled, as the main boom rises	YES
<b>1.74</b>	A bucket cover shall be provided that completely covers the top molded lip of a standard 24 inch x 30 inch x 42 inch bucket	COVER TO BE 26 X 26
<b>1.75</b>	The cover shall be of a good quality nylon material and shall include an elastic cord or band to keep the cover secured to the bucket	YES
<b>1.76</b>	Work tray with mounting will be provided	YES
<b>1.77</b>	A sub-frame attached to the frame of the truck shall secure the outriggers and the aerial lift to form one integral mount	YES
<b>1.78</b>	Outriggers shall have a minimum vertical travel clearance of 14 inches	YES
<b>1.79</b>	H-Frame outriggers with 2 x 8 cross tie	YES
<b>1.80</b>	Hydraulic activated outriggers shall be attached to the frame of the chassis at the front of the body	YES
<b>1.81</b>	The hydraulic cylinders shall be double action, heavy-duty welded with threaded end caps for maximum safety	YES
<b>1.82</b>	The pistons shall be made of aluminum with square bi-directional seals made of polyurethane material and a highly polished chrome finish shaft	PISTONS WILL HAVE HIGHLY POLISHED CHROME SHAFT
<b>1.83</b>	Holding valves shall be attached to each cylinder to prevent creep and to lock cylinders in case of line failure	YES
<b>1.84</b>	A manual diverter valve directs flow from the lift to the outriggers	YES
<b>1.85</b>	Controls for each outrigger cylinder will be supplied at the rear of the chassis so that the outriggers can be seen while in operation	YES
<b>1.86</b>	95 dba audible alarm shall be activated when outriggers are in motion, either in or out	YES
<b>1.87</b>	An outrigger/boom interlock system shall prevent lift operation until the outriggers contacts the ground and outrigger retraction before aerial lift is properly stowed	YES
<b>1.88</b>	Outrigger indicator light on dash to indicate outriggers are not stowed for transport	YES
<b>1.89</b>	Hydraulic system shall be driven by power take off(PTO) to be a Chelsea 277 hot shift PTO with overspeed control, or equivalent	YES
<b>1.90</b>	PTO shall be wired to only allow it to engage if parking brakes are set	YES
<b>1.91</b>	PTO control shall be dash mounted electrical switch	YES
<b>1.92</b>	PTO engaged light will be provide in the cab	YES
<b>1.93</b>	No part of the boom shall extend past the tail-shelf in the stowed position	YES
<b>1.94</b>	All exposed underbody valving shall be enclosed in a box to prevent corrosion	YES
<b>1.95</b>	A slope meter shall be furnished and mounted in the dash for the truck	YES
<b>1.96</b>	Slope meters shall be furnished and mounted on the side and rear of the truck	YES
<b>1.97</b>	A "Boom Raised" light will be mounted in the dash to illuminate when the boom is not in the stowed position	YES
<b>1.98</b>	"Boom raised" light shall be activated by an epoxy sealed, magnetic proximity switch, Grainger part # 6C834 or Omron type TL-W20ME2 12V - 24V No Exceptions	YES
<b>1.99</b>	A transport height placard indicating the overall stowed height of the completed vehicle shall be mounted on the dash in clear view of the operator	YES

<b>2.00</b>	Completed unit shall be tested and inspected before delivery to MDOT. A dated inspection sticker shall be installed inside rear window of truck	YES
	<b>Utility Body</b>	YES
<b>2.01</b>	The body shall be designed for a chassis with a cab to axle dimension of approximately 84 inches	YES
<b>2.02</b>	Body shall be fiberglass or approved equal	YES
<b>2.03</b>	Utility body dimension shall be approximately:	YES
<b>2.04</b>	Overall width - 94 inches	YES
<b>2.05</b>	Load space width - 54 inches	YES
<b>2.06</b>	Pack height - 42 inches	YES
<b>2.07</b>	Pack depth - 20 inches	YES
<b>2.08</b>	Mounting height - 25 inches	YES
<b>2.09</b>	A drawing of the proposed body shall be submitted with the bid	TO BE PROVIDED AT ORDER SUBMITTAL
<b>2.10</b>	Aluminum understructure	YES
<b>2.11</b>	Aluminum tread floor	YES
<b>2.12</b>	Smooth aluminum bulkhead	YES
<b>2.13</b>	Aluminum tailskirt	YES
<b>2.14</b>	Aluminum treadbright tail shelf	YES
<b>2.15</b>	Removable wheel well panels will be provided	YES
<b>2.16</b>	Steel rear mounting system shall be used	YES
<b>2.17</b>	Non-skid shall be provided on all compartment tops	YES
<b>2.18</b>	Clear vinyl rock guards shall be provided	YES
<b>2.19</b>	Black plastic fuel bezel(s) shall be provided. (Two required if chassis is diesel powered)	YES
<b>2.20</b>	Automotive quality bulb type door seals shall be furnished on all compartment doors	YES
<b>2.21</b>	Recessed door jambs will be provided	YES
<b>2.22</b>	Recessed door seals will be provided	YES
<b>2.23</b>	Doors will be one piece molded fiberglass	YES
<b>2.24</b>	Automotive finish both sides	YES
<b>2.25</b>	Latches will be stainless steel rotary type	YES
<b>2.26</b>	All locks will be keyed alike	YES
<b>2.27</b>	Type 304 stainless steel hardware will be provided	YES
<b>2.28</b>	Type 304 stainless steel door hinges will be provided	YES
<b>2.29</b>	Vinyl covered S/S cable door stops	YES
<b>2.30</b>	Master locking system will be provided on all compartments with lock provisions at rear of side cases	YES
<b>2.31</b>	Inside of all compartments shall be white	YES
<b>2.32</b>	All compartments will have white LED strip lighting with a master switch and a pilot light in the cab, fused separately	YES
<b>2.33</b>	Flow through ventilation system required for all compartments	YES
<b>2.34</b>	Street side front compartment will have one adjustable shelf with 2 inch divider pack with 4 fiberglass dividers	YES
<b>2.35</b>	Street side front compartment #2 will have two adjustable shelves with 2 inch divider pack with 4 fiberglass dividers	YES
<b>2.36</b>	Street side horizontal compartment will have one adjustable shelf	YES
<b>2.37</b>	Street side rear compartment will have two adjustable shelves	YES
<b>2.38</b>	Curb side front compartment will have two adjustable shelves and a square door vent	BACK WALL, NOT DOOR
<b>2.39</b>	Curb side front compartment #2 will have two adjustable shelves with 2 inch divider pack with 4 fiberglass dividers	YES
<b>2.40</b>	Curb side horizontal compartment will have one adjustable shelf with 2 inch divider pack with 4 fiberglass dividers	YES
<b>2.41</b>	Curb side rear compartment will have two adjustable shelves	YES
<b>2.42</b>	PVC style shovel rack/holder location T.B.D.	YES
<b>2.43</b>	24 inch stair access will be provided	YES

2.44	3000 watt inverter wired to boom tip and curbside rear, both shall be GFCI protected	YES
2.45	Wheel chocks, one set, rubber, with aluminum holders mounted under utility body	YES, HOLDERS TO BE INCORPORATED INTO BODY STRUCTURE
2.46	Composite plastic (or aluminum) outrigger pads, two, (2) 24" X 24" X 1" with two (2) aluminum holders mounted under the body	YES
2.47	Triangular reflector kit	YES
2.48	10lb fire extinguisher with heavy duty bracket installed	YES
2.49	<b>Cameras with sound option:</b>	YES
2.50	Camera shall be installed on the rear of vehicle to provide wide angle viewing	YES
2.51	Camera shall be installed on the passenger side of vehicle to provide wide angle viewing	YES
2.52	Camera shall be installed in the utility bed of the vehicle to provide wide angle viewing for boom location	YES
2.53	Camera display shall be mounted so driver can view it while in the drivers seat, and shall be able to switch between cameras	YES
2.54	Rear bumper will be step type with recess in center for trailer hitch constructed of 12 gauge tread plate	YES
2.55	Trailer hitch shall be receiver type, class IV	YES
2.56	Two 3/4 inch D-rings installed for trailer safety chains	YES
2.57	Eyelet for trailer breakaway cables	YES
2.58	Per MDOT supplied - Trailer Wiring Diagram, trailer connector shall be 7-way round pin Berg type , mounted at rear of frame, wired for turn signals independent of stop, compatible with trailers that have amber or side turn lamps, provided and installed by vendor	YES
2.59	Spare tire will be mounted next to the boom on the street side	YES
2.60	Side mounted ladder rack mounted curb side	YES
2.61	Electric moisture resistant back-up alarm, 95 dba sound level shall be provided	YES
2.62	All exterior lights will be LED type and conform with FMVSS 108 standards and shall include:	YES
a	Clearance	YES
b	Stop	YES
c	Tail	YES
d	Turn	YES
e	Back up	YES
	<b>Electrical, Lighting:</b>	YES
2.90	Electric moisture resistant back -up alarm, 95 dba sound level shall be provided	YES
2.91	All compartments will have white LED strip lighting with a master switch and a pilot light in the cab, fused separately	YES
2.92	Light channel installed at rear of unit	YES
2.93	All exterior lights on body will be LED type and conform with Motor Vehicle laws of the State of Michigan and include	YES
a	Clearance	YES
b	Stop	YES
c	Tail	YES
d	Turn	YES
e	Back up	YES
	<b>Work/strobe light type and placement:</b>	YES
2.94	All strobes lights are to be a combination Amber/Green light. All strobe lights to be synchronized together. Flash pattern to be amber quad fast flash, with a single green slow flash	YES
2.95	Four (4) L.E.D. corner strobe lighting to truck. Two (2) in rear light channel and Two (2) in front grille area. To have separate master switch located in chassis cab. Soundoff # EMPC2STS4 - LED or equivalent	YES

<b>2.96</b>	Two (2) L.E.D strobe lights mounted on both sides of the body, Install on same master on/off switch as the 4 corner strobes. Soundoff # EMPC2STS4 - LED or equivalent	YES
<b>2.97</b>	Two (2) mini light bars to light support bar on both Curb side and Street side of boom rest. Lights to be visible from front, rear and sides of truck. To have separate on/off master switch located in chassis cab. Soundoff # ENRMB000EN L.E.D. mini light bar or equivalent.	YES
<b>2.98</b>	Four (4) Whelen L.E.D perimeter lights. Two mounted just under mini light bars on both curb side and street side mounted all the way to the outer edge to eliminate shadows and two mounted at rear just under the tail shelf on both the curb side and street side . to have separate master switch located in chassis cab. Whelen # PELCB perimeter lights or equivalent.	YES - TWO POST MOUNTED AT FRONT OF BODY SINCE BOOM REST IS NOT ON BULKHEAD
<b>2.99</b>	Two (2) Reverse/Work L.E.D Flood lights in rear chassis frame rails. To automatically come on when chassis is in reverse and to have separate on/off switch located in chassis cab. Whelen # PFBS6 work lights or equivalent	YES
<b>3.00</b>	Two (2) Work Lights L.E.D. Flood lights. One (1) mounted on light support bar facing cargo area. One (1) mounted at rear facing tail shelf area. To have separate master on/off switch located in Chassis Cab. Whelen # PFBS6 work lights or equivalent	YES
<b>3.01</b>	One (1) Go-Light mounted just below upper strobe light on Curb Side with WIRELESS chassis control and WIRELESS handheld control. Go-light Model # 20074 or equivalent	YES
	<b>Miscellaneous:</b>	YES
<b>3.02</b>	A transport height placard indicating the overall stowed height of the completed vehicle shall be mounted on the dash in clear view of the operator	YES
<b>3.03</b>	Dielectric test unit according to ANSI requirements	YES
<b>3.04</b>	Stability test unit according to ANSI requirements	YES
<b>3.05</b>	A dated inspection sticker shall be installed inside rear window of truck	YES
<b>3.06</b>	Manufactures standard warranty	YES
<b>3.07</b>	Provide 8 hours of operator training, at a time and location determined by the State after unit has been accepted and is ready to be placed into service	YES
<b>3.08</b>	2 - Parts manual	YES
<b>3.09</b>	2 - Service manual	YES
<b>3.10</b>	2 - Operators manual	YES
<b>3.11</b>	1 - Safety & training video	YES
<b>AERIAL TOWER, NON-INSULATED BOOM 34 FOOT WORKING HEIGHT AND UTILITY BODY</b>		
	<b>Make Offered:</b>	ALTEC
	<b>Model Offered:</b>	AT235

39. - Specification # C10-045AT.22		Bidder Response (Indicate acceptance and/or provide alternate)
Aerial Tower, Insulated Boom 45 Foot Working Height and Utility Body with Side Access		
All items specified and furnished by the Contractor shall be new of the latest model in current production and shall include all standard features normally offered with these models		
	Cab & Chassis - supplied by MDOT	Make and Model
	Cab & Chassis will be 2024 Freightliner M2-106 extended cab 4x2	YES
	GVWR will be 27,500 pounds	YES
	Front GAWR will be 10,000 pounds	YES
	Rear GAWR will be 17,500 pounds	YES
	Wheel base will be 177 inches	YES
	Cab to axle length will be 83.9 inches	YES
	Axle to end frame will be 89 inches	YES
	Transmission will be an Allison 3500RDS_P with PTO provision	YES
	Engine will be a Detroit Diesel 9.9 liter rated @ 260hp	YES
	Unit shall be full of fuel when picked up by vendor, and shall be returned to MDOT in the same manner	YES



<b>1.0</b>	<b>Base Specifications:</b>	YES
<b>1.1</b>	All holes in cab and chassis frame rails shall be drilled or punched.	YES
<b>1.2</b>	<b>There shall be no flame cutting or welding on the frame side rails</b>	YES
<b>1.3</b>	Aerial tower shall have all exposed metal surfaces, except internal boom extensions, finish coated Omaha Orange DuPont Imron #43106-X or equal	YES
<b>1.4</b>	Utility body shall have all bare metal surfaces pre-cleaned and prepped prior to applying a compatible red oxide or zinc chromate primer	ALTEC STANDARD PRIMER
<b>1.5</b>	When painting continues over a manufacture's standard paint, metal prepping and primer may be omitted, providing an acceptable bond can be achieved	YES
<b>1.6</b>	Utility body shall be painted Omaha Orange, DuPont Imron #43106-X or equal	YES
<b>1.7</b>	All components mounted below frame rails shall be painted black	YES
<b>1.8</b>	Cab to end frame length on all body installations shall be the same length as the body being mounted, plus the length of any setback	YES
<b>1.9</b>	All items removed from the cab and chassis by body installer (frame ends, fuel tanks mirrors, etc.) remain the property of the State of Michigan and are to be returned with the truck	YES
<b>1.10</b>	All wires passing through holes in metal or non-metal wearing surfaces, which could cause wear of the insulation, shall be adequately protected by rubber or plastic grommets, and/or non-metal conduit.	YES
<b>1.11</b>	Ends of all wires shall be adequately anchored to prevent loosening	YES
<b>1.12</b>	All electrical connections shall be soldered and enclosed in heat shrink or in water tight junction blocks	YES
<b>1.13</b>	Scotch locks and wire nuts are not acceptable	YES
<b>1.14</b>	All wire connections from the utility body and tower to the chassis must be connected to the body up fit module if provided	YES
<b>1.15</b>	Body vendor will install body, mud flaps, lights as necessary	YES
<b>1.16</b>	Mud flaps will be plain with no advertising on either side	YES
<b>1.17</b>	No frame extensions will be accepted	YES
	<b>Aerial Manlift:</b>	YES
<b>1.18</b>	Aerial tower shall have the following characteristic based on a 40 inch frame height	YES
<b>1.19</b>	Ground to bottom of platform: 40 feet	YES
<b>1.20</b>	Working height: 45 feet	YES
<b>1.21</b>	Horizontal reach: 30 feet 6 inches @ 16 foot platform height	YES
<b>1.22</b>	Stowed travel high: 10 feet 6 inches	YES - VARIES BY CHASSIS/CAB HEIGHT
<b>1.23</b>	Platform capacity: 400 pounds minimum	YES
<b>1.24</b>	Extension boom travel 120 inches	110 INCHES
<b>1.25</b>	Main boom travel: -35 degree to + 80 degree	-25 TO +85 DEGREES
<b>1.26</b>	Articulated boom travel: -0 degrees to _ 80 degrees	YES
<b>1.27</b>	Jib winch capacity: 1,000 pounds	YES
<b>1.28</b>	Main boom shall be constructed of 8 inch x 10 inch rectangular high strength steel	YES - 9" X 11"
<b>1.29</b>	Section of main boom housing the internal cable track shall be expanded to 8 inches x 14 inches to allow the hoses and cable track to operate above minimum bend requirements	9" x 11"
<b>1.30</b>	Minimum travel of the main boom shall allow the operator to place the basket on the ground to reach the rear tail-shelf and to allow access to the compartments of the body without leaving the basket	YES - CHASSIS DEPENDANT
<b>1.31</b>	Main boom shall include a fiberglass insert to provide an insulation gap of 14 inches when the telescoping boom is fully retracted	YES - 33.13"
<b>1.32</b>	Fiberglass insert shall be bolted and glued to provide a secure connection	YES
<b>1.33</b>	Boom shall be clearly labeled to indicate the area of insulated protection	YES
<b>1.34</b>	Upper and lower support wear pads shall be 1/4 inch thick UHMW polyethylene	YES
<b>1.35</b>	Side support wear pads shall be threaded adjustable wear pads made of nylon	YES
<b>1.36</b>	Wear pads shall be replaceable without disassembly of boom sections	YES
<b>1.37</b>	Extension boom shall be made from 7 inch x 9 inch fiberglass tubing	YES



<b>1.38</b>	The inner wear pads shall be of threaded adjustable nylon	YES
<b>1.39</b>	A hydraulic cylinder shall accomplish the telescopic action of the extension boom, The use of cables or chains to extend or retract is not acceptable	YES
<b>1.40</b>	A polyethylene sleeve shall be placed over the basket end of the extension cylinder to increase the distance of dielectric integrity	YES
<b>1.41</b>	Polyethylene sleeves shall be certified for 50KV	YES - FIBERGLASS
<b>1.42</b>	Articulating arms shall be made from 7 inch x 7 inch square high strength tubing	YES - 10" X 8"
<b>1.43</b>	Articulating arms shall be compensating in design to maintain constant boom angle during the elevation of the articulating arm	YES
<b>1.44</b>	The articulating boom shall include a fiberglass insert to provide an insulation gap of 12 inches at an angle of incline	YES - 19"
<b>1.45</b>	The insert shall be bolted and glued to provide a secure connection	YES
<b>1.46</b>	The boom shall be clearly labeled to indicate the area of the insulated protection	YES
<b>1.47</b>	Pedestal shall be a structural box shaped and include the hydraulic components	STRUCTURAL ROUND SHAPE
<b>1.48</b>	An adequate opening shall be provided by a door or cover to allow access to internal components	YES
<b>1.49</b>	A hydraulic reservoir fill indicator shall be clearly visible and labeled to indicate the level of the oil	YES
<b>1.50</b>	The pedestal shall be machined flat for installation of the shear ball rotation bearing	YES
<b>1.51</b>	The pedestal structure must be of a single piece design and bolted directly to the lift sub frame. Risers and spacers are not acceptable	YES
<b>1.52</b>	Turntable shall be designed to resist all torque loads	YES
<b>1.53</b>	All pivot points for the boom and cylinders shall be line boarded to allow for proper alignment	YES
<b>1.54</b>	A 17 inch diameter shear ball rotation bearing shall be required	YES
<b>1.55</b>	Bearing races shall be heat treated and sealed to prevent entry of dirt and moisture and be equipped with readily accessible zerk fittings	YES
<b>1.56</b>	Rotation shall be driven by a worm gear, reduction gearbox	YES
<b>1.57</b>	A means of adjustment shall be included to provide for proper gear backlash	YES
<b>1.58</b>	Rotation system shall be self locking in the event of a hydraulic system failure	YES
<b>1.59</b>	The input shaft shall be machined with an extended hexagon design to allow for manual rotation	YES
<b>a</b>	Rotation shall be continuous in either direction	YES
<b>b</b>	A rotation manifold shall provide for hydraulic functions	YES
<b>c</b>	Each port shall be separated by O-rings	YES
<b>d</b>	The inner core of the manifold should be attached to the turn table and allow for maintenance of all hoses without removing guards for service or inspection	YES
<b>e</b>	The outer case shall be attached securely to the pedestal to prevent rotation	YES
<b>f</b>	Sub-frame shall be secured to the vertical section of the vehicle frame and provide adequate strength to withstand the load of the aerial lift	YES
<b>1.60</b>	A boom support shall be provided to support the aerial lift booms in the transport position	YES
<b>1.61</b>	An over the center clamping device shall secure the booms to the support for road transport	YES
<b>1.62</b>	The hydraulic system shall be designed as an open center hydraulic system	YES
<b>1.63</b>	All hydraulic components including the 15 gallon hydraulic reservoir shall be housed within the aerial lift pedestal	ALL HYDRAULIC COMPONENTS MOUNTED OUTSIDE OF PEDESTAL FOR IMPROVED SERVICE ACCESS TO HYDRAULIC COMPONENTS AND INSPECTION ACCESS INSIDE PEDESTAL
<b>1.64</b>	The reservoir shall be equipped with a drain plug, filler cap, air filter vent, sight level gauge, baffle system, and shut off valve at the outlet	YES

<b>1.65</b>	A 10 micron return filter shall be installed as close to the reservoir as possible and must be accessible for maintenance	YES
<b>1.66</b>	A 100 micron suction strainer shall be installed on the inlet to the pump , with a shut-off ball valve for ease of service	YES
<b>1.67</b>	Hydraulic tool circuits will be provided at the basket for operator use	YES
<b>1.68</b>	A pressure relief valve must be built into the system to prevent overload and set at 2,250 psi	YES
<b>1.69</b>	Aerial lift shall be equipped with basket and turntable mounted control stations	YES
<b>1.70</b>	Levers at both the upper and lower control stations shall automatically return to neutral position when released	YES
<b>1.71</b>	The controls shall use full pressure proportional hydraulic valves	YES
<b>1.72</b>	A one handed joystick control with trigger activation will be used to operate the upper controls	YES
<b>1.73</b>	Boom movement can't occur if the trigger is not activated	YES
<b>1.74</b>	When either control is released, boom movement shall stop and oil flow shall be redirected to the reservoir	YES
<b>1.75</b>	Basket mounted control station shall permit the operator to control all boom movements, chassis start and stop controls, and emergency backup functions	YES
<b>1.76</b>	With the boom stowed in the rest position, the control handle is orientated so the operator will operate it with the joystick handle in the right hand facing away from the truck	YES
<b>1.77</b>	Pulling up on the joystick handle will raise the booms	WILL RAISE UPPER BOOM
<b>1.78</b>	Pushing down on the joystick will lower the boom	WILL LOWER UPPER BOOM
<b>1.79</b>	Pushing the joystick forward will extend the extension boom	WILL RAISE ARTICULATING ARM, TWISTING HANDLE WILL EXTEND/RETRACT TELESCOPIC BOOM
<b>1.80</b>	Pulling the joystick back will retract the extension boom	WILL LOWER ARTICULATING ARM, TWISTING HANDLE WILL EXTEND/RETRACT TELESCOPIC BOOM
<b>1.81</b>	Pushing the joy stick to the right or left will rotate the booms	YES
<b>1.82</b>	The upper control valve lockout shall be available for the basket-stow and articulating arm valve section	YES
<b>1.83</b>	The lock out requires releasing a mechanical lock prior to the movement of the valve handle	YES
<b>1.84</b>	The turntable mounted lower control valve shall override the upper control valve and shall be capable of maintaining override of the upper control valve while unattended	ANSI REQUIREMENTS DICTATE OVERRIDE MUST BE MOMENTARY
<b>1.85</b>	The aerial lift shall be powered by a hydraulic pump which produces up to 6 gpm	YES
<b>1.86</b>	The hydraulic system shall also include a 12 volt DC emergency backup system with a motor and pump delivering 1.4 gpm	YES
<b>1.87</b>	All hydraulic hoses shall be placed within a cable track located inside of the main boom and be protected against abrasion, twisting and normal wear	YES
<b>1.88</b>	Hydraulic hoses shall have a 4 to 1 safety factor from operating to burst pressure	YES
<b>1.89</b>	Hydraulic fluid shall be "Glacial Blue Type" (Meets MilSpec 5606)	YES
<b>1.90</b>	Hydraulic tank will be labeled "Glacial Blue Type"	YES
<b>1.91</b>	Main boom will have a double action lift cylinder with a minimum 5 inch bore	4.5" BORE
<b>1.92</b>	Extension boom will have a double action cylinder with a minimum 2 1/2 inch bore	2.25" BORE
<b>1.93</b>	Articulating arm will have a double action cylinder with a minimum 5 inch bore	4.5" BORE
<b>1.94</b>	Cylinder ends shall have spherical self-aligning rod ends	YES
<b>1.95</b>	Holding valves will be attached to each cylinder to prevent boom creep and to lock the cylinders in the event of a line failure	YES
<b>1.96</b>	Hydraulic cylinders shall have welded and threaded end caps for maximum safety	YES

<b>1.97</b>	Piston shafts shall be highly polished chrome finish	YES
<b>1.98</b>	Basket shall be 24 inch x 30 inch x 42 inch, side mounted, square molded fiberglass, mounted to the curb side of the boom	YES
<b>a</b>	A hydraulic rotator shall rotate the basket 100 degrees about the end of the boom, from curb side to street-side	90 DEGREE ROTATION DUE TO SIDE MOUNT JIB
<b>b</b>	A control valve located at the upper controls shall control the rotation	YES
<b>c</b>	Entry/exit shall be gained by an inner/outer molded step	YES
<b>1.99</b>	The basket shall be completely enclosed and shall not have any holes for drainage or other wise	YES
<b>a</b>	The basket shall be automatically leveled, as the main boom rises	YES
<b>b</b>	The hydraulic basket leveling shall incorporate two (2) enclosed loop leveling cylinders and appropriate valving	YES
<b>c</b>	A control valve to stow/trim the basket shall be located at the upper controls and is optional at the lower override controls	YES
<b>d</b>	The basket stow requires simultaneous activation with the locking valve to prevent inadvertent movement	YES
<b>2.00</b>	A basket cover shall be provided that completely covers the top molded lip of a standard 24 inch x 30 inch 42 inch basket	YES
<b>a</b>	The cover shall be of a good quality vinyl material and shall include an elastic cord or band to keep the cover secured to the basket	YES
<b>b</b>	A strap with latching hook shall be permanently attached to the cover to allow for securing to the boom tip, preventing accidental loss	YES
<b>2.01</b>	The material handling function shall include a jib and winch that are positioned on the street-side of the boom	YES
<b>2.02</b>	The jib is hydraulically controlled to allow the operators to position the load vertically with a control valve located at the upper control valve	YES
<b>2.03</b>	The jib pole shall be manually adjusted to position the length of the reach required	YES
<b>2.04</b>	A load chart near the operators control station informs the operator of the jib boom carrying capacities	YES
<b>2.05</b>	The jib assembly shall be independent of the basket leveling system	YES
<b>2.06</b>	The hydraulic jib cylinder shall include its own holding valve, which prevents cylinder creep and to lock the cylinder in the event of hydraulic hose failure	YES
<b>2.07</b>	The self-locking worm gear winch is controlled from both the upper and lower control valves	YES
<b>2.08</b>	80 feet of 1/2 inch diameter double braid polyester rope with clevis hook shall be provided	65' ROPE
<b>2.09</b>	All boom pivot points shall be constructed of high alloy steel (130,000 psi yield strength minimum)	YES
<b>a</b>	All pins will require a Nitrotech Furnas treatment	ALTEC STANDARD HARDENED BOLTS
<b>b</b>	The pin results in a hardness range of Rc64 to 71 with a finish of 40-uin	ALTEC STANDARD PINS
<b>c</b>	All pivots shall be equipped with replaceable fiberglass reinforced Teflon bearings, no lubrication shall be required	YES - REPLACEMENT NOT REQUIRED
<b>2.10</b>	Hydraulic activated outriggers shall be attached to the frame of the chassis though the front compartment of the body	YES
<b>2.11</b>	A sub-frame attached to the frame of the truck shall secure the outriggers and the aerial lift to form one integral mount	YES
<b>2.12</b>	Outriggers shall have a minimum vertical travel clearance of 14 inches	YES
<b>2.13</b>	Outriggers shall be capable of extending to a 13 foot 6 inch spread	140" SPREAD
<b>2.14</b>	The outrigger legs shall consist of inner and outer telescoping structural tubing	YES
<b>2.15</b>	Adjustable polyethylene wear pads shall prevent wear and vibration during road transport, and shall center the inner and outer tubes	YES
<b>2.16</b>	Hydraulic activated outriggers shall be attached to the frame of the chassis at the rear of the body, if required for stability certification	YES
<b>2.17</b>	The outrigger legs must not block the cargo of the body	YES

2.18	The hydraulic cylinders shall be double action, heavy-duty welded with threaded end caps for maximum safety	YES
2.19	Holding valves shall be attached to each cylinder to prevent creep and to lock cylinders in case of line failure	YES
2.20	A manual diverter valve directs flow from the lift to the outriggers	ELECTRIC VALVE
2.21	Controls for each outrigger cylinder will be supplied at the rear of the chassis so that the outriggers can be seen while in operation	YES
2.22	Outrigger indicator light on dash to indicate outriggers are not stowed for transport	YES
2.23	95 dba audible alarm shall be activated when outriggers are in motion, either in or out	YES
2.24	An outrigger/boom interlock system shall prevent lift operation until the outriggers contacts the ground and outrigger retraction before aerial lift is properly stowed	YES
2.25	Hydraulic system shall be driven by power take off(PTO) to be a Chelsea 277 hot shift PTO with overspeed control, or equivalent	YES
2.26	PTO shall be wired to only allow it to engage if parking brakes are set	YES
2.27	PTO control shall be dash mounted electrical switch	YES
2.28	PTO engaged light will be provide in the cab	YES
2.29	No part of the boom shall extend past the tail-shelf in the stowed position	YES
2.30	Pedestal shall be mounted directly behind the truck cab	YES
2.31	Boom shall be to the rear in the stowed position	YES
2.32	All exposed underbody valving shall be enclosed in a box to prevent corrosion	YES - INSTALLED IN CARGO AREA
2.33	A slope meter shall be furnished and mounted in the dash for the truck	YES
2.34	A slope meter shall be furnished and mounted on the rear of the truck	YES
2.35	A "Boom Raised" light will be mounted in the dash to illuminate when the boom is not in the stowed position	YES
2.36	"Boom raised" light shall be activated by an epoxy sealed, magnetic proximity switch, Grainger part # 6C834 or Omron type TL-W20ME2 12V - 24V No Exceptions	YES
2.37	A transport height placard indicating the overall stowed height of the completed vehicle shall be mounted on the dash in clear view of the operator	YES
2.38	Outer/inner boom assembly's shall be tested and certified for electrical work at 46KV and below in accordance with ANSI A92.2 requirements	YES
2.39	The chassis insulating system (lower boom insert) shall also be tested and certified for electric work at 46KV and below in accordance with ANSI A92.2 requirements	YES
2.40	Completed unit shall be tested and inspected before delivery to MDOT. A dated inspection sticker shall be installed inside rear window of truck	YES
	<b>Utility Body</b>	YES
2.41	The body shall be designed for a chassis with a cab to axle dimension of approximately 84 inches and provide curbside access with step and handrail	YES
2.42	Body shall be galvanneal steel or approved equal	YES
2.43	Fiberglass body can be bid as an option, as long as it meets the general requirements and all differences are noted	STEEL
2.44	Utility body dimension shall be approximately:	YES
a	Load space width - 54 inches	YES
b	Top of body to top of floor -30 inches	YES
c	Horizontal compartment height - 24 inches	YES
2.45	A drawing of the proposed body shall be submitted with the bid	YES
2.46	Automotive quality bulb type door seals shall be furnished on all compartment doors	YES
2.47	Understructure will be 5 inch, 6.7 pound structural steel channel cross-members	YES
2.48	Tie channels will be 5 inch 4.1 pound structural steel channel	YES
2.49	Floor will be 3/16 inch tread plate	3/16 SMOOTH FLOOR
2.50	Front boxes will be 14 gauge A/40 galvanneal steel	16 GAUGE
2.51	Front and intermediate partition shall be 14 gauge A/40 galvanneal steel	YES
2.52	Rear partition will be 14 gauge A/40 galvanneal steel	16 GAUGE
2.53	Wheel house panels shall be 14 gauge A/40 galvanneal steel	YES

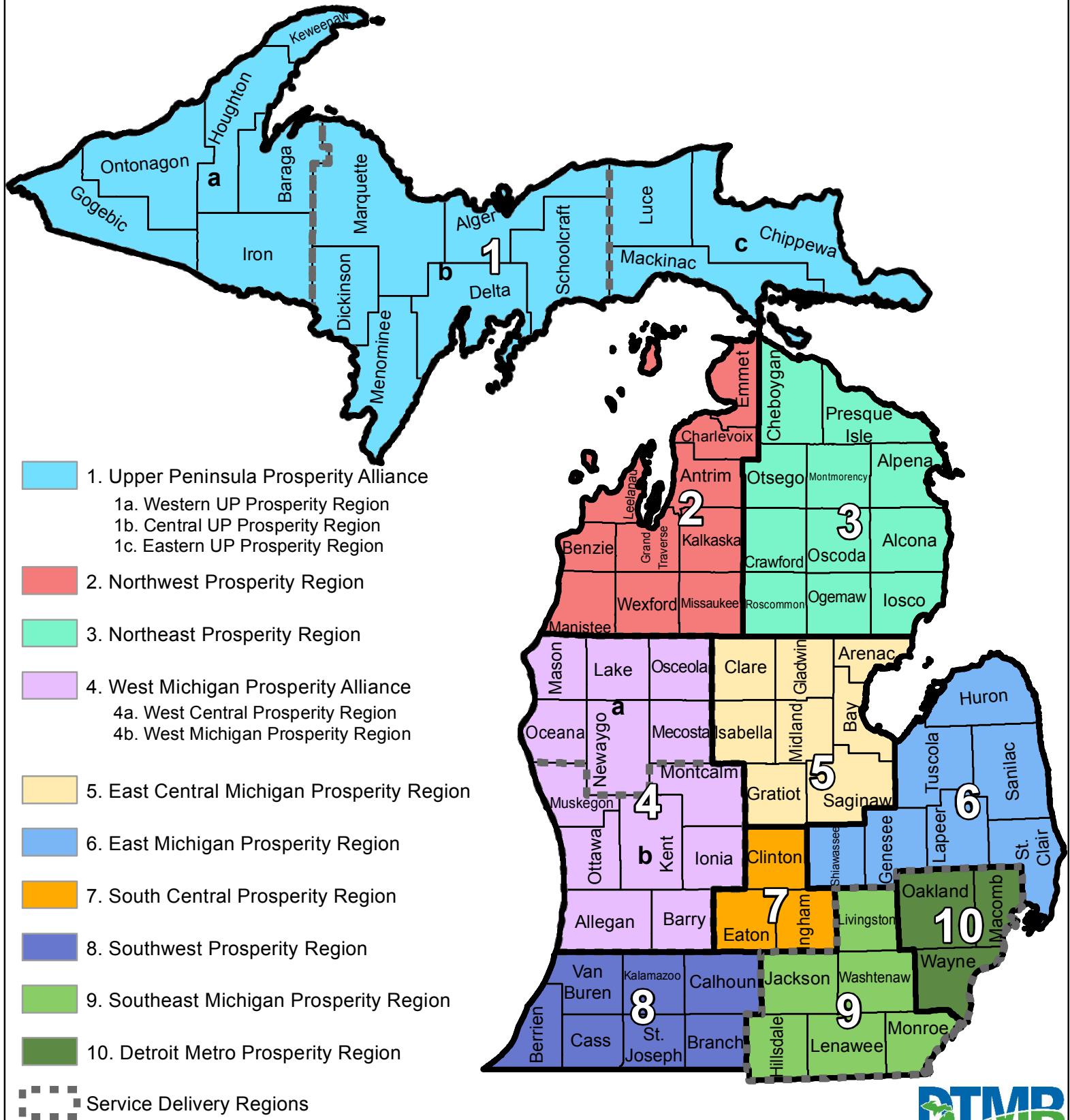
<b>2.54</b>	Compartment sides shall be 14 gauge A/40 galvaneal steel	16 GAUGE
<b>2.55</b>	All shelving shall be 16 gauge with dividers being 20 gauge galvaneal steel minimum	18 GAUGE GALVANIZED
<b>2.56</b>	Door will be double panel construction, 18 gauge outer and 20 gauge inner A40/galvaneal steel	YES
<b>2.57</b>	Hinges will be 5/16 inch diameter, electro zinc steel rod type with zinc cast hinge and nylon bushings	HINGE RODS ARE STAINLESS STEEL
<b>2.58</b>	Will include front aerial reinforcement bar, installed	YES
<b>2.59</b>	Latches will be flush mounted T-handle twist to open and close type	TWO-STAGE SLAM PADDLE LATCHES
<b>2.60</b>	All locks will be keyed alike	YES
<b>2.61</b>	All vertical doors will be equipped with spring loaded door holder	YES
<b>2.62</b>	Master locking system will be provided on all compartments with lock provisions at rear of side cases	YES
<b>2.63</b>	All compartments will have white LED strip lighting with a master switch and a pilot light in the cab, fused separately	YES
<b>2.64</b>	Curbside compartments shall be approximately 48 inches tall x 21 inches deep with vent in rear compartment and:	20" DEEP
<b>2.65</b>	Front vertical - 32 inches wide, two shelves w / dividers	YES
<b>2.66</b>	Second vertical - 24 inches wide side entry with grab handle and steps constructed of grip strut	YES
<b>2.67</b>	Horizontal - 52 inches wide x 21 inches tall	YES
<b>2.68</b>	Rear vertical - 24 inches wide, one shelf w/ divider	YES
<b>2.69</b>	Street side compartments shall be approximately 48 inches tall with vent in front compartment	YES
<b>2.70</b>	Front vertical - 32 inches wide, two shelves w / dividers	
<b>2.71</b>	Second vertical - 24 inches wide, open no shelving	YES
<b>2.72</b>	Horizontal - 52 inches wide open no shelving	YES
<b>2.73</b>	Rear vertical - 24 inches wide, one shelf w/ divider	YES
<b>2.74</b>	Wheel chocks, one set, rubber, with aluminum holder mounted under (or) in utility body	YES
<b>2.75</b>	Composite plastic (or aluminum) outrigger pads, two, (2) 24" X 24" X 1" with two (2) aluminum holders mounted under the body	YES
<b>2.76</b>	Triangular reflector kit	YES
<b>2.77</b>	10lb fire extinguisher with heavy duty bracket installed	YES
<b>2.78</b>	Rear bumper will be step type with recess in center for trailer hitch constructed of 12 gauge tread plate	REAR BUMPER WILL HAVE GRIPSTRUT FOR IMPROVED TRACTION
<b>2.79</b>	A tail shelf shall be constructed of 3/16 inch tread plate, 36 inches long x 96 inches wide x 6 inches high	94" WIDE TAILSHELF TO MATCH BODY WIDTH, 5" HIGH
<b>2.80</b>	Trailer hitch shall be receiver type, class IV	YES
<b>2.81</b>	Two 3/4 inch D-rings installed for trailer safety chains	YES
<b>2.82</b>	Eyelet for trailer breakaway cables	YES
<b>2.83</b>	Per MDOT supplied - Trailer Wiring Diagram, trailer connector shall be 7-way round pin Berg type , mounted at rear of frame, wired for turn signals independent of stop, compatible with trailers that have amber or side turn lamps, provided and installed by vendor	YES
<b>2.84</b>	Electric moisture resistant back -up alarm, 95 dba sound level shall be provided	YES
<b>2.85</b>	All exterior lights will be LED type and conform with FMVSS 108 standards and shall include:	YES
<b>a</b>	Clearance	YES
<b>b</b>	Stop	YES
<b>c</b>	Tail	YES
<b>d</b>	Turn	YES
<b>e</b>	Back up	YES
<b>2.86</b>	Work/strobe light type and placement:	YES

<b>2.87</b>	All strobes lights are to be a combination Amber/Green light. All strobe lights to be synchronized together. Flash pattern to be amber quad fast flash, with a single green slow flash	YES
<b>2.88</b>	Four (4) L.E.D. corner strobe lighting to truck. Two (2) in rear light channel and Two (2) in front grille area. To have separate master switch located in chassis cab. Soundoff # EMPC2STS4 - LED or equivalent	YES
<b>2.89</b>	Two (2) L.E.D strobe lights mounted on both sides of the body, Install on same master on/off switch as the 4 corner strobes. Soundoff # EMPC2STS4 - LED or equivalent	YES
<b>2.90</b>	Two (2) mini light bars to light support bar on both Curb side and Street side of boom rest. Lights to be visible from front, rear and sides of truck. To have separate on/off master switch located in chassis cab. Soundoff # ENRMB000EN L.E.D. mini light bar or equivalent.	YES
<b>2.91</b>	One (1) Go-Light mounted just below upper strobe light on Curb Side with WIRELESS chassis control and WIRELESS handheld control. Go-light Model # 20074 or equivalent	YES
<b>2.92</b>	<b>Miscellaneous:</b>	YES
<b>2.93</b>	A transport height placard indicating the overall stowed height of the completed vehicle shall be mounted on the dash in clear view of the operator	YES
<b>2.94</b>	Stability test unit according to ANSI requirements	YES
<b>2.95</b>	A dated inspection sticker shall be installed inside rear window of truck	YES
<b>2.96</b>	Manufactures standard warranty	YES
<b>2.97</b>	Provide 8 hours of operator training, at a time and location determined by the State after unit has been accepted and is ready to be placed into service	YES
<b>2.98</b>	2 - Parts manual	YES
<b>2.99</b>	2 - Service manual	YES
<b>3.00</b>	2 - Operators manual	YES
<b>3.01</b>	1 - Safety & training video	YES
<b>AERIAL TOWER, INSULATED BOOM 45 FOOT WORKING HEIGHT AND UTILITY BODY W/ SIDE ACCESS</b>		
	<b>Make Offered:</b>	ALTEC
	<b>Model Offered:</b>	AT41M



# SCHEDULE E

## State of Michigan Prosperity Regions



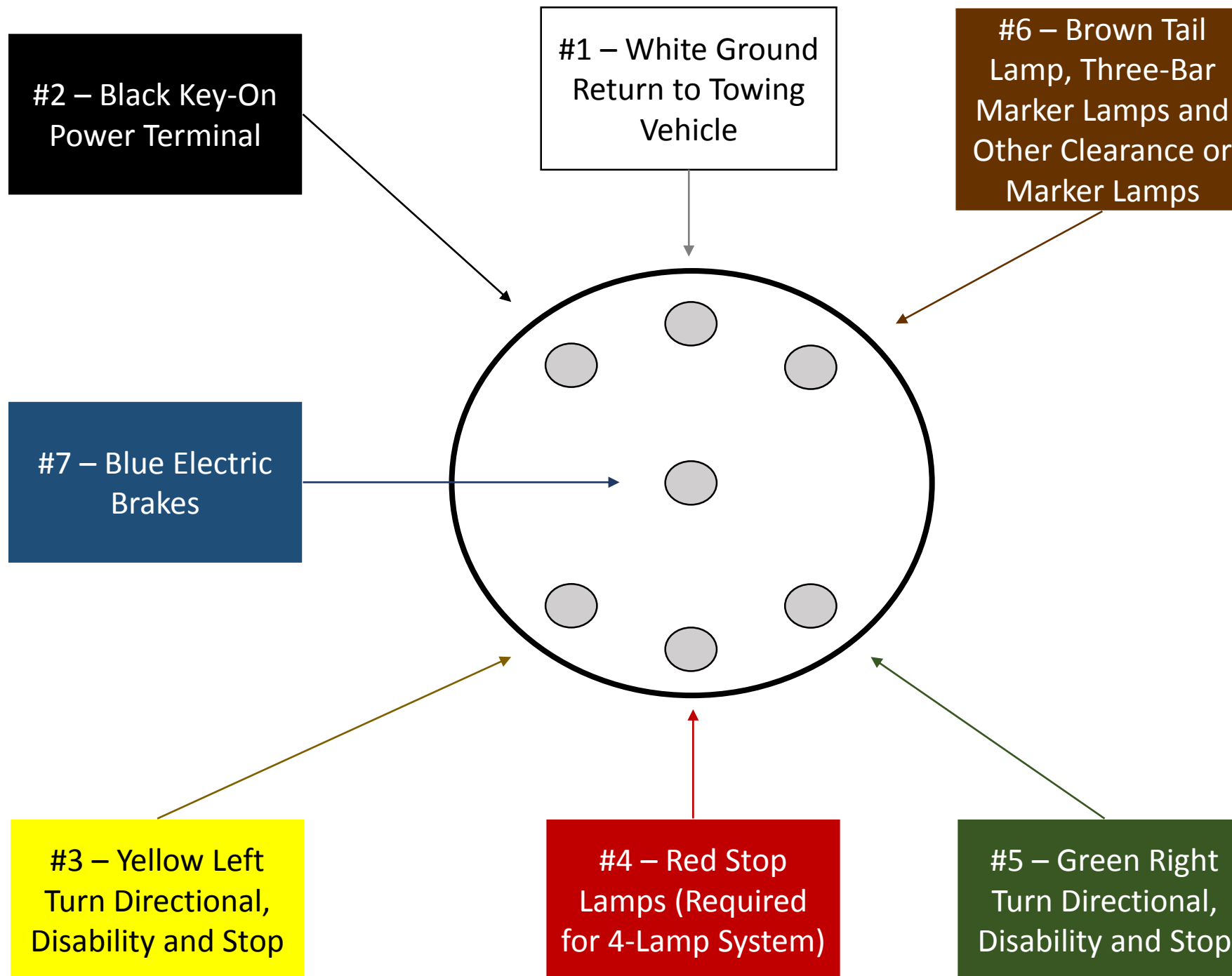


## Schedule F - Trailer Wiring Diagram



**(Use Std J560 Connector)**

**All Non-Tractor/Trailer Non-ABS Truck-End (Viewed from Wire Side of Plug)**



Rev Date: 03/04/2015