



CITY COUNCIL

MEETING AGENDA

September 5, 2019

Marc D. Tall, Mayor
Ronald J. Beauchamp, Mayor Pro Tem
Ralph B. Blasier, Council Member
Michael R. Sattem, Council Member
Peggy O'Connell, Council Member

Patrick S. Jordan, City Manager
Phil DeMay, City Clerk
John Bergman, City Attorney

[City Council Chambers located at: City Hall – 410 Ludington Street – Room C101 – Escanaba MI 49829](#)

The Council has adopted a policy to use a Consent Agenda, when appropriate. All items with an asterisk (*) are considered routine by the City Council and will be enacted by one motion. There will be no separate discussion of these items unless a Council Member or citizen so requests, in which event, the item will be removed from the General Order of Business and considered in its normal sequence on the Agenda.

[Regular Meeting](#)

Thursday, September 5, 2019, at 7:00 p.m.

CALL TO ORDER

ROLL CALL

INVOCATION/PLEDGE OF ALLEGIANCE

APPROVAL/CORRECTION(S) TO MINUTES – Regular Meeting – August 15, 2019
Special Meeting – August 21, 2019

APPROVAL/ADJUSTMENTS TO THE AGENDA

CONFLICT OF INTEREST DECLARATION(S)

BRIEF PUBLIC COMMENT(S)

PUBLIC HEARINGS

1. **Second Reading of Ordinance No. 1213, - An Ordinance To Amend Chapter V Dog Ordinance as Codified Under the Code of Ordinances.**

Explanation: Administration is requesting the City Council to consider approval and adoption of Ordinance No. 1213 - An Ordinance to Amend Chapter V Dog Ordinance as Codified Under the Code of Ordinances.

UNFINISHED BUSINESS

1. **Approval – Purchase Offer of a City-Owned Residential Lot.**

Explanation: Davis Zubke sent a written offer of \$8,000 to purchase the city-owned, .92 acre residential parcel on 25th Place off Old State Road.

NEW BUSINESS

1. **Discussion and/or Direction on Recreational Marijuana Ordinance.**

Explanation: City Council will discuss the current Recreational Marijuana Ordinance and whether any changes are needed.

2. **Approval – Lease Agreement – Community Action Agency.**

Explanation: Administration is seeking Council approval of an annual lease agreement between the City of Escanaba and the Community Action Agency for the Senior Center activities at the Catherine Bonifas Civic Center. Under the terms of the lease, the annual lease payment and the utility costs would remain the same.

3. **Approval – Traffic Signal Design Bid – Recreation.**

Explanation: As part of the North City Limits Non-Motorized Pathway Project, traffic signal design services for US-2/41, M35 (North Lincoln Road) and Danforth Road intersection is required by MDOT. Administration is seeking Council approval to obtain Orchard, Hiltz and McCliment, Inc. (OHM) from Hancock, Michigan, for traffic signal design services in the amount of \$12,845.10.

4. **Approval – Assessor Contract.**

Explanation: Administration is seeking Council approval of Assessor Jim McNeil's contract.

5. Approval – CIPP Storm Sewer Lining Bid – DPW/Engineering.

Explanation: Bids for the 2019 CIPP Sewer Lining Project were solicited and were opened on August 27th. Four bids were received. The bids were split into two separate bids: storm sewer (Area 1) and sanitary sewer (Areas 2-5). The storm sewer portion is on North 20th Street from 3rd Avenue North to 6th Avenue North. Administration is seeking Council approval of the storm sewer portion of the 2019 CIPP Sewer Lining Project bid from Tunnel Vision Pipeline Services. Since final quantities are unknown, it is requested that the bid be approved for the unit prices as bid. This is a budgeted item and is under budget as bid.

6. Approval – CIPP Lining of Sanitary Sewer Main. – Wastewater.

Explanation: Administration is seeking Council approval to hire Tunnel Vision, of Escanaba, MI, to perform the Sanitary Sewer work in areas 2, 3, 4, & 5 as outlined in the attached proposal in a sum not to exceed \$435,160.65. Money is available and allotted for this type of work within the current budget.

7. Approval – New Dump Truck with Plow Bid – Public Works.

Explanation: Administration is seeking Council approval to purchase a New Dump Truck with Plow from U.P. Truck Center of Quinnesec, MI, in the amount of \$186,014. This is a budgeted item.

8. Approval – Traffic Control Orders (TCO) No.996, 997, 998, 999, 1000, 1001, 1002 & 1003.

Explanation: Administration is seeking Council approval of TCO's No. 996, 997, 998, 999, 1000, 1001, 1002 & 1003. Traffic Control Orders expire 90 days from the filing date unless approved by Council. On August 20, 2019 the Traffic Safety Advisory Committee met and has recommended City Council approval of TCO No. 996-1003. The Traffic Control Orders call for the following:

No. 996 – Move the 25 mph zone from the 1100 block of Lake Shore Drive to the 1400 block of Lake Shore Drive to reduce the speed limit proceeding through Veterans Park.

No. 997 – Placement of additional No Parking during school hours signs on the East/West side of North 19th Street near North 13th Avenue.

No. 998 – Placement of additional No Parking during school hours signs on the North/South side of 13th Avenue North.

No. 999 – Placement of additional No Parking Signs during school hours on the East and West side of N 16th Street near North 1st Avenue.

No. 1000 – Placement of additional No Parking Signs during school hours on the North and South side of 1st Avenue North near 16th Street.

No. 1001 – Placement of additional No Parking Signs during school hours on the East and West side of South 20th Street near 7th Avenue South and 6th Avenue South.

No. 1002 – Placement of additional No Parking Signs during school hours on the North and South side of 7th Avenue South east of 20th Street.

No. 1003 – Placement of additional No Parking during school hours signs on the south side of 6th Avenue South just east and west of 20th Street.

9. Approval – Fire turnout gear purchase – Public Safety.

Explanation: Escanaba Public Safety would like to purchase 32 sets of fire turnout gear from Firstdue Fire Supply for the cost of \$96,534.08 which was the lowest bid. Any grant money applied for and awarded would be put towards the cost of the turnout gear. This was included in the 2019/2020 budget.

Agenda –September 5, 2019

APPOINTMENTS
BOARD, COMMISSION, AND COMMITTEE REPORTS
GENERAL PUBLIC COMMENT
ANNOUNCEMENTS
ADJOURNMENT

Respectfully Submitted,

A handwritten signature in blue ink that reads "Patrick S. Jordan". The signature is written in a cursive style with a large initial "P".

**Patrick S. Jordan
City Manager**

**OFFICIAL PROCEEDINGS
CITY COUNCIL
CITY OF ESCANABA, MICHIGAN
Regular Council Meeting
Thursday, August 15, 2019**

The meeting was called to order by the Honorable Mayor Marc D. Tall at 7:00 p.m. in the Council Chambers of City Hall located at 410 Ludington Street.

Present: Mayor Marc D. Tall, Council Members, Ronald J. Beauchamp, Ralph B. Blasier, Peggy O'Connell, and Michael R. Sattem

Absent: None

Also Present: City Manager Patrick S. Jordan, Deputy City Clerk Tammy Weissert, Department Heads, media, and members of the public.

Deputy City Clerk Weissert led Council in the Pledge of Allegiance.

Sattem moved, O'Connell seconded, **CARRIED UNANIMOUSLY**, to approve Regular Meeting minutes from August 1, 2019, as submitted.

ADJUSTMENTS TO THE AGENDA

Blasier proposed to combine NB-3 and NB-4 together.

Beauchamp would like to add NB-13 – City Manager Declared a City Emergency Purchase.

Blasier moved, O'Connell seconded, **CARRIED UNANIMOUSLY**, to approve the City Council Agenda as amended.

CONFLICT OF INTEREST DECLARATION – None

BRIEF PUBLIC COMMENT

Mary Harrington, Ford River Twp., addressed City Council on the dog ordinance. Mrs. Harrington informed Council that she witnessed a very vicious dog attack with another dog on Lake Shore Drive, where the dog came from its own yard. Mrs. Harrington expressed her concern on not knowing how else to control animals unless they are on a leash or tied up in the City.

Dave Letourneau, Escanaba resident, spoke in regards to the dog ordinance. Mr. Letourneau expressed his concern on people still letting their dogs run loose all over Ludington Park.

PUBLIC HEARINGS

PH-1 Second Reading, Public Hearing and Adoption of Ordinance No. 1212, - An Ordinance to Amend Chapter IV Community Development as Codified Under the Code of Ordinances, to provide for an expansion of the Richter Historic District.

Administration requested the City Council to consider approval and adoption of Ordinance No. 1212 – An Ordinance to Amend Chapter IV Community Development as Codified Under the Code of Ordinances, to provide for an expansion of the Richter Historic District.

This being a public hearing, Mayor Tall asked if there was any public comment.

Hearing no public comment, Mayor Tall closed the public hearing.

PH-1 “By Council Member O’Connell, seconded by Council Member Beauchamp;

Resolved, That Ordinance No. 1212, An Ordinance to Amend Chapter IV Community Development as Codified Under the Code of Ordinances, to provide for an expansion of the Richter Historic District, given its public hearing at this meeting, be and is hereby adopted and that it be published in accordance with the requirements of the City Charter.”

Herewith Ordinance No. 1212 adopted by title:

“AN ORDINANCE TO AMEND CHAPTER IV COMMUNITY DEVELOPMENT AS CODIFIED UNDER THE CODE OF ORDINANCES”

Full text in Ordinance Record “K”.

Upon a call of the roll, the vote was as follows:

Ayes: O’Connell, Beauchamp, Blasier, Sattem, Mayor Tall

Nays: None

RESOLUTION DECLARED ADOPTED.”

PH-2 Second Reading, Public Hearing and Adoption of Ordinance No. 1214, - An Ordinance to Amend Chapter 18, to reflect state statute for use of fireworks as Codified Under the Code of Ordinances.

Administration requested the City Council to consider approval and adoption of Ordinance No. 1214 – An Ordinance to Amend Chapter 18 to reflect state statute for use of fireworks as Codified Under the Code of Ordinances.

This being a public hearing, Mayor Tall asked if there was any public comment.

Hearing no public comment, Mayor Tall closed the public hearing.

PH-2 “By Council Member O’Connell, seconded by Council Member Sattem;

Resolved, That Ordinance No. 1214, An Ordinance to Amend Chapter 18 to reflect state statute for use of fireworks as Codified Under the Code of Ordinances, given its public hearing at this meeting, be and is hereby adopted and that it be published in accordance with the requirements of the City Charter.”

Herewith Ordinance No. 1214 adopted by title:

“AN ORDINANCE TO AMEND CHAPTER 18 AS CODIFIED UNDER THE CODE OF ORDINANCES”

Full text in Ordinance Record “K”.

Upon a call of the roll, the vote was as follows:

Ayes: O’Connell, Sattem, Beauchamp, Blasier, Mayor Tall

Nays: None

RESOLUTION DECLARED ADOPTED.”

PH-3 Public Hearing – Resolution - Escanaba Façade Project 2018 – Planning & Zoning.

Administration requested City Council to approve an Authorizing Resolution outlining a request to submit the final Part 2 Application which would be submitted to the MEDC for the Escanaba Downtown Façade “2018” program.

This being a public hearing, Mayor Tall asked if there was any public comment.

Hearing no public comment, Mayor Tall closed the public hearing.

PH-3 “By Council Member Blasier, seconded by Council Member Sattem;

RESOLUTION NO. 19-17

**AUTHORIZING RESOLUTION
City of Escanaba Façade Improvement Project 2018
CDBG Program**

WHEREAS, the City of Escanaba has been invited by the Michigan Strategic Fund to submit a CDBG application to improve, rehabilitate and preserve building facades in the core traditional downtown on Ludington Street; and

WHEREAS, this CDBG grant application is for improvements to the facades at four identified buildings in downtown Escanaba: 413 Ludington Street, 909-911-915 Ludington Street, 1213 and 1215 Ludington Street, and

WHEREAS, the proposed project is consistent with the local community development plan as described in the Application; and

WHEREAS, the completion of these improvements will principally benefit at least 51% low and moderate income persons in the target area; and

WHEREAS, local funds and any other funds to be invested in the project have not been obligated and will not be obligated prior to a formal grant award, completion of the environmental review procedures and a formal written authorization to incur costs from the Michigan Economic Development Corporation.

WHEREAS, the City of Escanaba recognizes that a local match from the business owners in the amount of \$503,600 will be required.

NOW THEREFORE BE IT RESOLVED, the Escanaba City Council will submit a Michigan CDBG application requesting \$492,545 CDBG funds for a downtown façade improvement project.

NOW, THEREFORE, BE IT RESOLVED that the City Council hereby designates the Mayor as the Certifying Officer and the person authorized to certify the Michigan CDBG Application, and the City Manager as the person authorized to sign the Grant Agreement between the MEDC and the City of Escanaba, payment requests to the MEDC and other documents and forms that maybe required.

Upon a call of the roll, the vote was as follows:

Ayes: Blasier, Sattem, Beauchamp, O'Connell, Mayor Tall

Nays: None

RESOLUTION DECLARED ADOPTED."

UNFINISHED BUSINESS

UB-1 First Reading of Ordinance No. 1213, - An Ordinance To Amend Chapter V Dog Ordinance as Codified Under the Code of Ordinances, and Setting the Date of Thursday, September 5, 2019, for Second Reading, Public Hearing, and Adoption.

Administration requested the City Council to consider this the first reading of Ordinance No. 1213, An Ordinance to Amend Chapter V Dog Ordinance as

Codified Under the Code of Ordinances. Additionally, Administration requested that the City Council set September 5, 2019, for the second reading, public hearing and adoption of Ordinance No. 1213.

UB-1 Sattem moved, Blasier seconded, to consider this the first reading of Ordinance No. 1213, An Ordinance to Amend Chapter V Dog Ordinance as Codified Under the Code of Ordinances and to set September 5, 2019, for the second reading, public hearing and adoption of Ordinance No. 1213.

Upon a call of the roll, the vote was as follows:

Ayes: Sattem, Blasier, Beauchamp, O'Connell, Mayor Tall

Nays: None

MOTION CARRIED.

NEW BUSINESS

NB-1 Approval – Purchasing of Military Service Time.

Administration sought City Council approval of a new policy that would allow current non-union members of Public Act 345 to purchase their military service time in order to retire before their original eligibility date.

NB-1 Beauchamp moved, Sattem seconded, to approve of a new policy that would allow current non-union members of Public Act 345 to purchase their military service time in order to retire before their original eligibility date.

Upon a call of the roll, the vote was as follows:

Ayes: Beauchamp, Sattem, Blasier, O'Connell, Mayor Tall

Nays: None

MOTION CARRIED.

NB-2 Presentation – Millage Request - Bay de Noc College.

President Dr. Laura Coleman of Bay College gave a slideshow presentation on the College's millage request for November. (See Attachment – A)

Tom Butch, Gladstone resident, thanked City Council for giving their attention to Bay College and for all of their support in the past.

NB-3 Approval - Use of Public Space - North 18th Street Between 12th Avenue North and 13th Avenue North - Christ the King Lutheran Church - Rally Day Festival.

Christ the King Lutheran Church sought Council approval to close off the 1200 block of North 18th Street between 12th Avenue North and 13th Avenue North for their Fall Festival on Sunday, September 8, 2019, from 12:00 p.m. to 3:00 p.m. Administration recommended approval with the following conditions: 1) Proper insurance be provided naming the City of Escanaba as an additional insured, 2) The event sponsors provide all labor and material to clean up at the conclusion of the event, and 3) The event sponsor pay for any overtime City labor costs that may be incurred.

NB-4 Approval – Use of Public Space – Ludington Street – Escanaba High School Homecoming Parade.

The Escanaba School District sought approval to use Ludington Street on Friday, September 20, 2019, from 5:00 p.m. to 5:30 p.m., for their annual Homecoming Parade. Administration recommended approval provided the following conditions are met: 1) Proper insurance was provided naming the City of Escanaba as an additional insured, 2) The event sponsors provide all labor and material to clean up at the conclusion of the event, and 3) The event sponsors pay for any overtime labor costs that may be incurred.

NB-3&4 Blasier moved, O'Connell seconded, **CARRIED UNANIMOUSLY**, to approve a request from Christ the King Lutheran Church to close off the 1200 block of North 18th Street between 12th Avenue North and 13th Avenue North for their Fall Festival on Sunday, September 8, 2019, from 12:00 p.m. to 3:00 p.m. and a request from the Escanaba School District to use Ludington Street on Friday, September 20, 2019, from 5:00 p.m. to 5:30 p.m., for their annual Homecoming Parade, provided: 1) Proper insurance was provided naming the City of Escanaba as an additional insured, 2) The event sponsors provide all labor and material to clean up at the conclusion of the event, and 3) The event sponsor pay for any overtime City labor costs that may be incurred.

NB-5 Approval – Resolution – Bottomlands Conveyance – Assessor.

Administration requested the City Council to consider passing a resolution to seek conveyance of bottomlands at 200-230 Ludington Street. A resolution from the local unit of government approving the conveyance application was necessary for the application to be considered administratively complete.

NB-5 “By Council Member Blasier, seconded by Council Member O’Connell;

RESOLUTION NO. 18
RESOLUTION TO APPROVE AN APPLICATION FOR CONVEYANCE OF
GREAT LAKES BOTTOMLANDS FROM THE STATE OF MICHIGAN EGLE.

WHEREAS, the City of Escanaba seeks to market for sale the subject property,
and

WHEREAS, the Bottomlands in question have been filled in for decades, used
for industrial and public purposes, but never conveyed by the State of Michigan,
and

WHEREAS, the City of Escanaba wishes to sell the associated already-filled
Bottomlands for private sector development, and

WHEREAS, the Bottomlands conveyed include a section of Block 3 of the
Original Plat and the Right of Way of South 2nd Street Extended.

NOW, THEREFORE, BE IT RESOLVED by the City of Escanaba hereby
approves of the Application for Conveyance for Great Lakes Bottomlands by the
State of Michigan to the City of Escanaba. The Bottomlands to be conveyed are
fully described below:

(BOTTOM LANDS PORTION ADJACENT & CONTIGUOUS TO GOVERNMENT
LOT 2)

Upon a call of the roll, the vote was as follows:

Ayes: Blasier, O'Connell, Beauchamp, Sattem, Mayor Tall

Nays: None

RESOLUTION DECLARED ADOPTED.”

NB-6 Approval – Purchase Offer of a City-Owned Residential Lot.

Davis Zubke sent a written offer of \$8,000 to purchase the city-owned, .92 acre
residential parcel on 25th Place off Old State Road.

NB-6 Tall moved, Beauchamp seconded, **CARRIED UNANIMOUSLY**, to
approve to postpone Davis Zubke's written offer of \$8,000 to purchase the city-
owned, .92 acre residential parcel on 25th Place off Old State Road.

NB-7 Approval – Ash Tree Treatment Bid – Public Works.

Administration sought Council approval to accept the 2019/20 Ash Tree
Treatment bid received from Common Coast Research and Conservation. Since
the final quantity is unknown, it was requested that the bid be approved for the

unit price as bid. Funds for this request were included in the current year operating budget.

NB-7 Blaiser moved, O’Connell seconded, to approve to accept the 2019/20 Ash Tree Treatment bid received from Common Coast Research and Conservation for the unit price as bid.

Upon a call of the roll, the vote was as follows:

Ayes: Blaiser, O’Connell, Beauchamp, Sattem, Mayor Tall
Nays: None

MOTION CARRIED.

NB-8 Approval – Installing Fixed Ladders on Final Clarifiers – Wastewater.

Administration sought Council approval to hire Northern Machining & Repair of Escanaba, MI to conduct the work as specified within their quotation for Proposal #3 at a cost not to exceed \$14,730. Funds for this request were included in the current year operating budget.

NB-8 Blasier moved, O’Connell seconded, to approve to hire Northern Machining & Repair of Escanaba, MI to conduct the work as specified within their quotation for Proposal #3 at a cost not to exceed \$14,730.

Upon a call of the roll, the vote was as follows:

Ayes: Blasier, O’Connell, Beauchamp, Sattem, Mayor Tall
Nays: None

MOTION CARRIED.

NB-9 Approval – Water Meter and Radio Read Purchase – Water.

Administration sought Council approval to accept the following amounts for Water Meter and Radio Read Purchases. Money was available and allotted to conduct these purchases within the 2019/2020 fiscal year budget:

- a. Twelve hundred (1200) Itron 100W pit style ERT’s from United Systems & Software of Benton, KY at a cost not to exceed \$91,200.
- b. Eleven hundred (1100) Hersey composite 5/8 inch water meters from Mueller Systems, LLC, of Cleveland, NC at a cost not to exceed \$92,400.
- c. One hundred (100) Master Meter BLMJ 1 inch water meters from Core & Main of Kentwood, MI at a cost not to exceed \$14,800.

NB-9 O’Connell moved, Beauchamp seconded, to approve to accept the following amounts for Water Meter and Radio Read Purchases: a) Twelve hundred (1200) Itron 100W pit style ERT’s from United Systems & Software of Benton, KY at a cost not to exceed \$91,200, b) Eleven hundred (1100) Hersey composite 5/8 inch water meters from Mueller Systems, LLC, of Cleveland, NC at a cost not to exceed \$92,400, c) One hundred (100) Master Meter BLMJ 1 inch water meters from Core & Main of Kentwood, MI at a cost not to exceed \$14,800.

Upon a call of the roll, the vote was as follows:

Ayes: O’Connell, Beauchamp, Blasier, Sattem, Mayor Tall

Nays: None

MOTION CARRIED.

NB-10 Interview - City Assessor Position.

Council held a public interview for open City Assessor position, with possible creation of a negotiation committee.

NB-10 Blasier moved, O’Connell seconded, to approve to hire James McNeil for the City Assessor position.

Upon a call of the roll, the vote was as follows:

Ayes: Blasier, O’Connell, Beauchamp, Sattem, Mayor Tall

Nays: None

MOTION CARRIED.

After discussion, it was consensus for Council Member’s Sattem and O’Connell, City Attorney Bergman, HR Director/Treasurer Gustafson and City Manager Jordan to be on a committee to negotiate the terms of the new City Assessor Contract.

NB-11 Approval – Purchase of Two Patrol Vehicles – Public Safety.

Administration sought City Council approval to purchase two patrol vehicles from Riverside Ford in Escanaba, MI. The first is a 2020 Ford Explorer at a cost of \$36,521.78. The second vehicle is a 2019 Ford F150 at a cost of \$50,000. A grant for \$17,800 was obtained from the USDA to put towards the total cost of this purchase. Both of these vehicles were included in the 2020 budget year.

NB-11 O’Connell moved, Sattem seconded, to approve to purchase two patrol vehicles from Riverside Ford in Escanaba, MI., a 2020 Ford Explorer at a cost of \$36,521.78 and a 2019 Ford F150 at a cost of \$50,000.

Upon a call of the roll, the vote was as follows:

Ayes: O’Connell, Sattem, Beauchamp, Blasier, Mayor Tall
Nays: None

MOTION CARRIED.

NB-12 Approval – Cost of Conveyance of the Old Jail Site.

Administration sought Council approval to purchase the conveyance of the Old Jail Site for \$23,700 from the State EGLE.

NB-12 Blasier moved, Beauchamp seconded, to approve to purchase the conveyance of the Old Jail Site for \$23,650 from the State EGLE.

Upon a call of the roll, the vote was as follows:

Ayes: Blasier, Beauchamp, O’Connell, Sattem, Mayor Tall
Nays: None

MOTION CARRIED.

B-13 Discussion - City Manager Declared a City Emergency Purchase.

City Manager Patrick Jordan declared a City Emergency Purchase for a new garbage truck. One of the automated garbage trucks was totaled by two pick-up trucks coming out of the landfill.

APPOINTMENT(S) TO CITY BOARDS, COMMISSIONS, AND COMMITTEES – None

BOARD, COMMISSION, AND COMMITTEE REPORTS

Council Members reviewed City Board and Commission meetings each attended since the last City Council Meeting.

GENERAL PUBLIC COMMENT

Dan Zellar, Escanaba resident, teamed up with Team Wireless and gave out 700

backpacks filled with school supplies to kids in the Upper Peninsula, Wisconsin and Illinois.

ANNOUNCEMENTS

- Next week there will be a Joint Governmental meeting, 08/19/2019 at 10:00 am., Planning Commission meeting, 08/21/2019 at 2:00 pm. to discuss part of the redevelopment of the jail property and a Joint City Council and Delta County Commission Meeting on 08/21/2019 at 6:30 p.m. at the Delta County Service Center;
- Held the 3rd of 4 Bike and Classic Car Night and raised \$1,650 for the Delta County Cancer Alliance;
- Upper Peninsula State Fair is in town.

Hearing no further public comment, the Council adjourned at 8:22 p.m.

Respectfully submitted

Tammy Weissert, CMC
Deputy City Clerk

Approved: _____

Marc D. Tall, Mayor



BAY COLLEGE

STUDENT SUCCESS - COMMUNITY SUCCESS



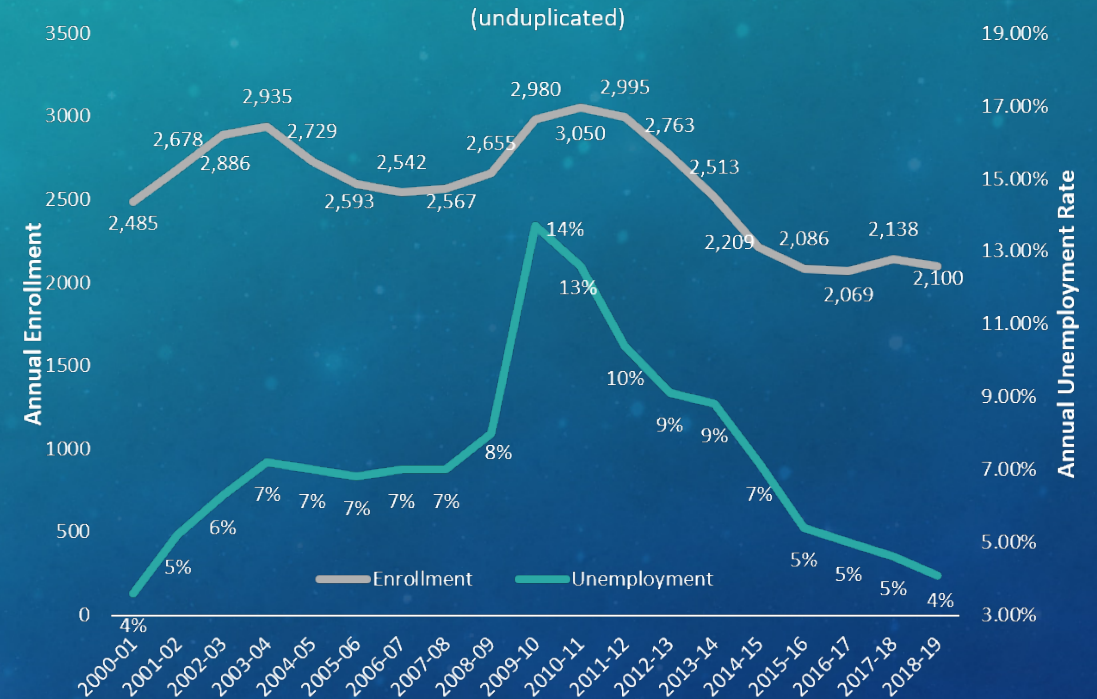
COMMITTED TO SUCCESS

Student Success



- Expanding programs focused on local workforce
 - Welding, mechatronics, robotics, water technology, cybersecurity, agricultural operations, ...
- Training to save and advance lives
 - Nursing, EMT/paramedic, MRI technician, childcare education, counseling, ...
- Degrees fully online (4), including free digital textbooks
- Addition of Norse athletics
 - Expanded student population, diversity, and engagement
 - \$1 million grant from Hannahville specifically for a building addition - locker rooms, offices, training rooms
- Approaching 60% graduation/completion goal

Enrollment vs Unemployment Rate



100% of our community has the opportunity to earn college degree at Bay!

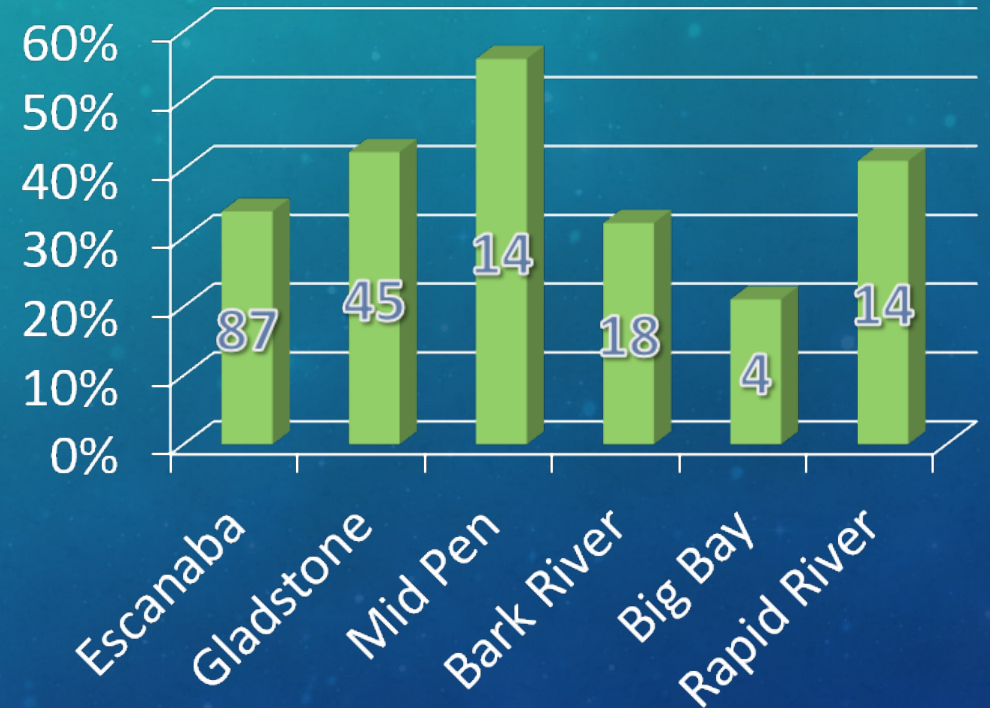


COMMITTED TO SUCCESS

Community Success

- Partnerships with K-12 districts
 - State funded Dual Enrollment (33) and Early College (10) programs – 600+ students in 2018-19
 - Reduces cost of higher education for students & families
- Articulation agreements (45) with universities
 - Active participant in the Michigan Transfer Agreement
- Training to over 2500 local employees each year
- Hosted 1153 community events, meetings, and conferences on campus
 - Totaled over 7000 service hours in 2018-19!

**% High School Graduates
Attending Bay (2019)**



Bay is an education, training, and cultural enrichment hub in our community!



BAY COLLEGE IS COMMITTED TO STUDENT & COMMUNITY SUCCESS

- 80% of our graduates stay in our community
- Bay College has awarded 16,120 degrees to 12,483 graduates
- Bay College Alumni include:
 - Nurses, doctors, business owners, welders, lawyers, technicians, managers, law enforcement officers, engineers, paramedics, judges, teachers, engineers, and so much more!



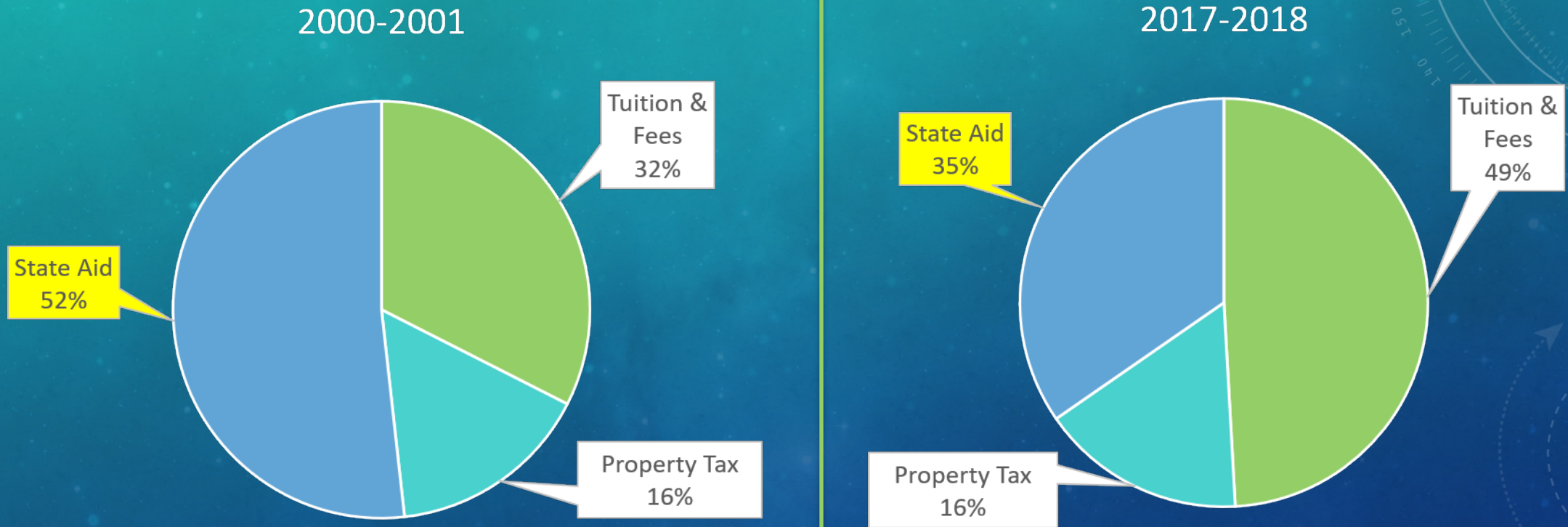
OUTSTANDING FINANCIAL STEWARDS

- Keep college affordable by limiting tuition increases
- Reduce operating and utility expenses
 - Maintain systems beyond useful life
 - Efficient lighting
- Improve learning environments
 - Improving graduation rates
 - Educating our community



Challenged by limited State of Michigan funding and the need for critical infrastructure improvements.

CHALLENGED BY DECREASING STATE FUNDING



Should have received \$6.9 million in 2018-19, but received \$5.6 million, \$1.3 million shortfall

MILLAGE WILL FUND THE FUTURE – NEXT 20-30 YEARS

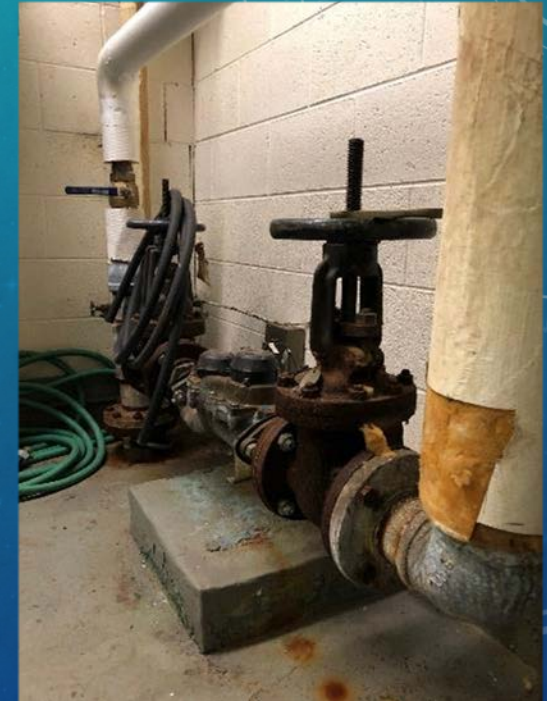
- Critical improvements in building infrastructure
- Lighting and efficiency advances
- Safety systems



Comprehensive, cost-effective plan to ensure safe, productive, and efficient learning environments!

CRITICAL INFRASTRUCTURE & EFFICIENCY IMPROVEMENTS

- Proactive replacement/refurbishment of mechanical systems
- Reduction in operating costs
- Further utility savings through renewable energy
 - City of Escanaba Solar array
- Reduce project costs with campus-wide project
 - 20% less engineering costs with one project
 - Emergency repairs typically cost twice as much
 - Construction costs double every 10 years



Project utilizes local contractors and funded by a TELP Loan

CRITICAL INFRASTRUCTURE IMPROVEMENTS

Lighting

New Fixtures	576
Relamped Fixtures	423
Retrofit Fixtures	3726

Life Safety

Fire Alarm System	1
Access Readers	76
Electrical Services	2
Parking Lots Fixtures	50

Mechanical

Boilers	9
New Pumps	18
Humidifier	1
Chillers	3
Roof Top Units	7
Air Handling Units	5
Water Heaters	3
Furnace	1
Generator	1

Assorted

Roofs	2
Solar Panels	2900
Generator	1
UPS*	1
Datacenter Racking	3
Air Conditioning Units	3

*Uninterrupted Power Supply



SAVINGS REALIZED THROUGH ENERGY EFFICIENCIES

- 59% reduction in utility bills
 - \$173,658 in energy savings annually
 - ~\$90,000 from renewable energy generation
 - ~\$40,000 in annual operational savings
- As utility rates increase the college looks for fixed cost solutions to reduce expenses over time
- Reduction of carbon emissions
 - Equivalent to 73,712 trees growing for 10 years
 - Equivalent to 527 vehicles taken off the road



SAFETY & SECURITY ON CAMPUS

- Automated entry and locking system
 - Immediate lockdown of exterior doors
 - Centralized monitoring system
- Lighting improvements in parking lots
 - Motion LED lit pathways
 - Dark sky environment
- Enhanced fire alarm systems



We know every second counts!

BAY COLLEGE CURRENT MILLAGE

- 1.0 operational millage passed in 1962
- 1.5 operational millage passed in 1968
 - Headlee amendment leaves us with 2.3076 mills (2.5 less 0.1924 Headlee reduction)
 - Headlee passed in 1978 to limit property tax increases due to high inflation
- 1.0 capital millage renewed in 2013

Total millage passed: 3.5000 mills

Current millage received: 3.3076 mills

Headlee Amendment rollback costs Bay College nearly
\$230,000 annually, about \$4M loss in 20 years!



BAY COLLEGE PROPOSAL -20 YEAR MILLAGE INCREASE

0.7 mills OPERATIONAL MILLAGE INCREASE

0.1924 mills HEADLEE RESTORATION

0.8924 mills TOTAL MILLAGE REQUEST



What will the additional millage cost you?

- Additional millage tax on \$80,000 house: \$2.97 per month
- Additional millage tax on \$200,000 house: \$7.44 per month

INVEST IN THE FUTURE OF OUR COMMUNITY

THE FACTS

- State of Michigan is not sufficiently funding community college education
- Bay College impacts our local economy ~\$100 million annually
- Millage dollars stay in our community, investing in the future of Delta County

ECONOMIC IMPACT OF INVESTING IN YOUR COMMUNITY COLLEGE

- 💰 Every tax dollar you invest in college operations brings \$6.80 in benefits to the community
Better citizens, lower crime rates, less social programs
More productive employees, lower unemployment
- 💰 Students earn back \$4.80 for every dollar spent on their education (*\$1M in a lifetime*)
Better quality of life and higher wages

OUR history is **STRONG...**

TOGETHER we can make the future **STRONGER!**



Questions?

Join us on Facebook to receive updates on the millage and on Bay College happenings!

**OFFICIAL PROCEEDINGS
CITY COUNCIL
DELTA COUNTY COMMISSION
CITY OF ESCANABA, MICHIGAN
Special Council Meeting
Wednesday, August 21, 2019**

Pursuit to a special meeting notice posted August 16, 2019, the meeting was called to order by the Honorable Mayor Marc D. Tall at 6:30 p.m. in the Conference Room of the Delta County Service Center located at 2920 College Avenue.

Present: Mayor Marc D. Tall, Mayor Pro Tem Ronald J. Beauchamp, Council Members Ralph B. Blasier, Peggy O’Connell, and Michael R. Sattem.

Absent: None

Delta County: Commissioners Gerald Tatrow, Patrick Johnson, Theresa Nelson, David Moyle, David Rivard, Delta County Administrator Philip L. Strom, and Delta County Clerk Nancy Przewrocki.

Absent: None

Also Present: City Manager Patrick S. Jordan, Phil DeMay City Clerk, Media and members of the public.

County Clerk Przewrocki gave the invocation and led Council and Commissioners in the Pledge of Allegiance.

O’Connell moved, Sattem seconded, **CARRIED UNANIMOUSLY**, to approve the agenda as submitted.

CONFLICT OF INTEREST DECLARATION – None

PUBLIC COMMENT – None

NEW BUSINESS

Discussion – 111 North 3rd Street – Proposed Development Agreement.

A discussion took place on the Proposed Development Agreement for 111 North 3rd Street.

- Delta County Administrator, Phil Strom, discussed the overview of the proposed development agreement for 111 North 3rd Street and the strategic public process.
- City Manager, Patrick Jordan, discussed the “Master Plan” and presented the City of Escanaba 2016 Master Plan YouTube video.
- City Assessor, James McNeil, said “A project like this is a healthy injection to the tax base that a community like ours really could use, and could potentially build momentum into that district.”
- Executive Director of the DDA, Ed Legault, discussed how the DDA has been

City Council Minutes
August 21, 2019 – continued

heavily involved with this project. The DDA is very passionate about this project and excited to see what it will bring to downtown Escanaba.

- Executive Director of the Delta County Economic Development Alliance, TJ Thomas, said this project would link our entire community. Proxima and Hutton plan to use local trades, materials, and financing where possible, said Thomas.
- Dan Leonard, of the MEDC Community Assistance Team, said the project will serve as a positive example for development projects throughout the state of Michigan.
- Justin Hutton of Hutton & Hutton Architects & Engineers and Ravi Patel of Proxima delivered a presentation discussing their plans for the project.
- Ravi Patel, Proxima Operations Manager, discussed the conceptual project proposal and the different phases through the project. Patel said the project is expected to make use of local resources.
- Paul Caswell, member of the Planning Commission, discussed the concern of the moratorium section of the proposed contract.
- Phil Strom, Delta County Administrator, discussed the moratorium and how the proposed contract is still a living document.
- David Rivard, Delta County Commissioner, said we need to utilize the resources we have in our area. This project is a great opportunity to get the ball rolling in the right direction.
- Peggy O'Connell, City Council Member, said this is part of the reason I ran for City Council...is to try and get more development like this in downtown Escanaba.
- Ron Beauchamp, City Council Member, discussed the land contract options of Phase II.

NB-1 Blasier moved, O'Connell seconded, to approve the concept and instruct our administrators and ask the County to instruct their administrators to continue working with the Proxima and Hutton team towards an eventual formed contract.

Upon a call of the roll, the vote was as follows:

Ayes: Blasier, O'Connell, Beauchamp, Sattem, Mayor Tall

Nays: None

MOTION CARRIED.

GENERAL PUBLIC COMMENT

Tom Butch discussed how the Delta County Economic Development Alliance will help support this project in any way possible.

COMMISSION/STAFF COMMENT AND ANNOUNCEMENTS – None

Hearing no further business or public comment, Sattem moved, O'Connell seconded, the meeting adjourned at 7:33 p.m.

City Council Minutes
August 21, 2019 – continued

Respectfully submitted,

Phil DeMay
City Clerk

Approved: _____
Marc. D. Tall, Mayor

Agenda Item: PH-1
Date: 9/5/19

City Council Agenda Item Request

Date: 08/16/2019

Name: Patrick Jordan

Department: Administration

Item: Ordinance No. 1213

Meeting date requested: 09/05/2019

Explanation for request:

Administration is requesting the City Council to consider approval and adoption of Ordinance No. 1213 - An Ordinance to Amend Chapter V Dog Ordinance as Codified Under the Code of Ordinances.

ORDINANCE NO. 1213

**AN ORDINANCE TO AMEND CHAPTER V ANIMALS AS CODIFIED UNDER THE
CODE OF ORDINANCES**

THE CITY OF ESCANABA HEREBY ORDAINS:

CHAPTER I

Chapter 5 of the Escanaba Code of Ordinances is hereby amended by adding the following under Article IV.-Dogs:

Section 5-16:

- (a) For the purposes of this ordinance, the term "owner" shall include, "actual owner, apparent owner, and long-term or short-term guardian / caretaker."
- (b) All dogs shall be subject to the following:
 - i. No owner shall have a dog within Escanaba City limits if not under control.
 - ii. All dogs, confined to the owner's property, shall be considered under control. Off of the owner's property, an animal tethered by a sufficiently-sturdy leash shall be considered under control.
 - iii. No dog shall be allowed to run on any beach, except a dog under control by the owner, or as permitted by park rules promulgated by the City.

No dog which is not under control shall be allowed in any park, except for off-leash areas or dog parks designated specifically by the City for use by dogs off leash. All dogs inside the perimeter fence at a park designated as a Dog Park by the City of Escanaba shall be considered to be under control of the owner, even without a leash, so long as the owner is obeying all of the Dog Park rules.

CHAPTER II
SAVINGS CLAUSE

If any section, subsection, sentence, clause, or phrase of this Ordinance is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this Ordinance.

The City Council hereby declares that it would have passed this Ordinance, section, subsection, sentence, clause, or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, or phrases be declared unconstitutional.

CHAPTER III
CONFLICTING ORDINANCES REPEALING CLAUSE

All Ordinances or parts of Ordinances in conflict with the provisions of this Ordinance are hereby repealed.

CHAPTER IV
EFFECTIVE DATE

This Ordinance shall be in full force and effect ten (10) days after its passage and publication.

APPROVED:

APPROVED:

John M. A. Bergman
City Attorney

Marc D. Tall
Mayor

Date Approved: (Month) (Date), 2019

Attest

Date Published: (Month) (Date), 2019

Phil DeMay
City Clerk

I hereby certify that the foregoing constitutes a true and complete copy of an ordinance duly adopted by the City Council of the City of Escanaba, County of Delta, Michigan at a Regular Meeting held on the (Date) day of (Month), 2019 and was published in the Daily Press, a newspaper of general circulation in the City of Escanaba on (Month) (Date), 2019, and said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976, and that the minutes of said meeting were kept and will be or have been made available as required by said Act.

Phil DeMay
City Clerk

Agenda Item: UB-1
Date: 9/5/19

City Council Agenda Item Request

Date: 08/20/2019

Name: Patrick Jordan

Department: Administration

Item: Offer for Purchase of City-Owned Residential Lot

Meeting date requested: 09/05/2019

Explanation for request:

An offer has been made by Davis Zubke for a city-owned, .92 acre residential parcel on 25th Place off Old State Road.

7/29/19

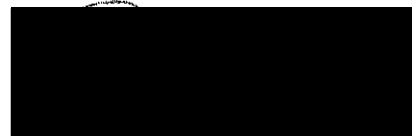
Patrick Jordan,

I am interested in purchasing the 0.92 acre parcel #051-420-2836-200-036 from the City of Escanaba to build our family home. I would like to purchase this parcel, as is, as well as acquire the 2 strips of adjacent, unclaimed land on the north and west sides. This parcel is part of the larger area that has been determined to be protected wetlands by EGLE (formerly the DEQ). While the vast majority of this land is unable to be developed, there is a small highland berm on the north end of the property that is not protected wetlands. The building site would be limited to this area without needing further permits from EGLE.

In May of this year, an appraisal of the parcel was completed before the official wetlands determination was made by EGLE. The appraised value of \$24,000 was based on proposed site improvements including natural gas lines to the property, storm sewers, street lights, curb and gutter and 12th Avenue connecting the highway to 25th Place.

I have reviewed, and enclosed for reference, information regarding recent land sales near this parcel that are more comparable to this parcel in its current condition. In July 2014, a 0.92 acre vacant parcel with a shed (parcel 051-420-3501-200-006) sold for \$10,000. In August 2018, a 5.24 acre vacant parcel (parcel 051-420-3501-200-003) sold for \$10,000. In November 2018, a 4.59 acre parcel with a house on it (parcel 051-420-2836-100-021) sold for \$62,500. The parcel of interest is on a dead-end gravel road, across the street from the airport in an undeveloped wetland area. Taking all of this into consideration, I would like to offer the City of Escanaba \$8,000 for parcel 051-420-2836-200-036.

Thank you for your consideration in this matter.

A large black rectangular redaction box covering the signature area.

Davis Zubke

LAND APPRAISAL REPORT

City of Escanaba
File No. 062919j

Borrower N/A Census Tract 9711.00 Map Reference 21640
Property Address S 26th Pl County Delta State MI Zip Code 49829
Legal Description See attached addenda
Sale Price \$ N/A Date of Sale N/A Loan Term N/A yrs. Property Rights Appraised Fee Leeschoeld Do Minimis PUD
Actual Total Estate Taxes \$ N/A (w) Loan charges to be paid by seller \$ N/A Other sales concessions None
Lender/Client City of Escanaba Address 410 Ludington St, Escanaba, MI 49829
Occupant Vacant Appraiser Judi L. Punzel Instructions to Appraiser To appraise parcel #061-420-2836-200-036
Location Urban Suburban Rural
Built Up Over 76% 29% to 76% Under 26%
Growth Rate Fully Dev. Rapid Steady Slow
Property Values Increasing Stable Declining
Demand/Supply Shortage In Balance Oversupply
Marketing Time Under 3 Mos. 4-6 Mos. Over 6 Mos.
Percent 40 % One-Unit % 2-4 Unit % Apts. % Condo 10 % Commercial
Land Use % Industrial 26 % Vacant 26 % Delta County Airport
Change in Present Land Use Not Likely Likely (*) Taking Place (*)
Product/End Occupancy Owner Tenant 3 % Vacant
One-Unit Price Range \$ 80 to \$ 296 Predominant Value \$ 150
One-Unit Age Range 1 yrs. to 30 yrs. Predominant Age 45 yrs.
Comments including those factors, favorable or unfavorable, affecting marketability (e.g., public parks, schools, view, noise) The subject is located within close proximity to airport. The subject is within acceptable commuting distance to major employment centers, shopping, schools and recreational facilities.

Dimensions 165x200 33,000 sf Corner Lot
Zoning Classification A Present Improvements Do Do Not Conform to Zoning Regulations
Highest and Best Use Present Use Other (specify)
Elec. On site Public Private
Gas N.G. City
Water City
San. Sewer City
 Underground Elec. & Tel.
OFF SITE IMPROVEMENTS
Street Access Public Private
Surface Gravel
Maintenance Public Private
 Storm Sewer Curb/Gutter
 Sidewalk Street Lights
Topo Level/typical
Size Adequate/typical
Shape Rectangular/typical
View Residential
Drainage Average/typical
is the property located in a FEMA Special Flood Hazard Area? Yes No
Comments (favorable or unfavorable including any appraisal adverse easements, encroachments, or other adverse conditions) Appraisal is based on legal access to parcel. Current dimensions are 165x244. Proposed site size is 165x200.

The undersigned has reviewed the following recent sales of properties most similar and proximate to subject and has considered these in the market analysis. The description includes a dollar adjustment reflecting market reaction to those items of significant variation between the subject and comparable properties. If a significant item in the comparable property is superior to or more favorable than the subject property, a minus (-) adjustment is made, thus reducing the indicated value of subject; if a significant item in the comparable is inferior to or less favorable than the subject property, a plus (+) adjustment is made thus increasing the indicated value of the subject.

ITEM	SUBJECT PROPERTY	COMPARABLE NO. 1	COMPARABLE NO. 2	COMPARABLE NO. 3
Address	S 26th Pl Escanaba, MI 49829	820 Willow Creek Rd Escanaba, MI 49829	1202 S 21st St Escanaba, MI 49829	404 S 32nd St Escanaba, MI 49829
Proximity to Subject		0.83 miles NW	0.29 miles E	0.81 miles NW
Sales Price	\$ N/A	\$ 20,000	\$ 18,000	\$ 25,000
Price \$/Sq. Ft.	\$	\$	\$	\$
Data Source(s)	City Records	MLS # 1108024	MLS # 1084279 & City Records	City Records
ITEM	DESCRIPTION	+(-) \$ Adjust.	DESCRIPTION	+(-) \$ Adjust.
Date of Sale/Time Adj.	N/A	07/20/2018	02/26/2018	10/15/2018
Location	N;Res;	N;Res;	N;Res;	N;Res;
Site/View	33,000 sf	2.27 ac -10,000	8,158 sf +6,000	15,688 sf +3,000
Access	Public	Public	Public	Public
Terrain	Level/low	Similar	Similar	Similar
Electricity/Utilities	City	City	City	City
Outbuildings/storage	None	None	None	None
Sales or Financing Concessions	N/A	Conventional	Conventional	Conventional
	None	None noted	None noted	None noted
Net Adj. (Total)		<input checked="" type="checkbox"/> + <input type="checkbox"/> - \$ -10,000	<input checked="" type="checkbox"/> + <input type="checkbox"/> - \$ 6,000	<input checked="" type="checkbox"/> + <input type="checkbox"/> - \$ 3,000
Indicated Value of Subject		\$ 10,000	\$ 24,000	\$ 28,000

Comments on Market Data All comparable sales are vacant parcels. Adjustments have been to make the comparable sales similar to the subject property. Adjustments are made based on vacant land sales with similar site and location appeal.

Comments and Conditions of Appraisal The appraisal is based on legal access and completion of proposed site improvements. A search was made through UPAR MLS for vacant parcels located on the South side of Escanaba which have sold within the past 24 months. There is 1 property meeting the search criteria which has been used within the sales comparison approach. A search was made through City records for additional comparable sales. The mid range of value is given with most weight to comparable # 2.

Final Reconciliation The sales comparison approach was given most weight due to it being considered the most accurate approach in determining the current actions of buyers and sellers in the local market. The cost approach was not used due to the parcel being vacant land. The subject is not in the income approach.

Date of Report 05/29/2019 TO BE \$ 24,000
Appraiser Judi L. Punzel
Date of Signature and Report 05/31/2019
Title State Licensed Appraiser
State Certification # ST
Or State License # 1201066509 ST MI
Expiration Date of State Certification or License 07/31/2019
Date of Inspection (if applicable) 05/29/2019
Inspection Date of Inspection Did Did Not Inspect Property

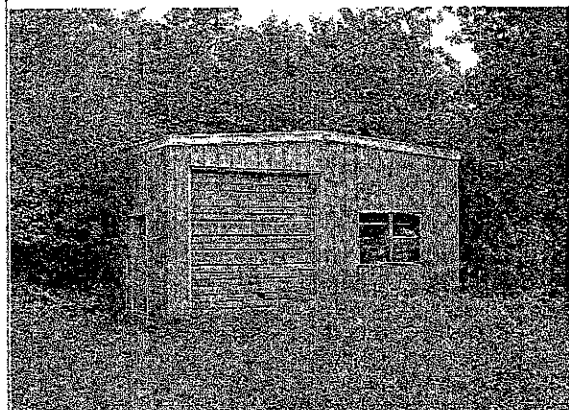
Handwritten note: \$ 22-26,000

Grantor	Grantee	Sale Price	Sale Date	Inst. Type	Terms of Sale	Liber & Page	Verified By	Prcnt. Trans.
GEROU DANIEL	HAHN MITCHELL	10,000	07/30/2014	WD	ARMS-LENGTH	1110/400	DAINA NORDEN	100.0
GEROU LEONARD ALDAGE ESTA	GEROU DANIEL	0	05/11/2007	QCD	FAMILY	894/068		0.0

Property Address	Class: Residential, 401	Zoning:	Building Permit(s)	Date	Number	Status
2313 18TH AVE S						
Owner's Name/Address	School: Escanaba Schools 21010		P.R.E. 0%			
HAHN MITCHELL	Map #: 2B		2020 Est TCV Tentative			

Tax Description	Public Improvements	Land Value Estimates for Land Table 02.RES 2							
		Description	Frontage	Depth	* Factors *	Rate	%Adj.	Reason	Value
SEC 1 T38N R23W [MAP# 2B] PRT OF NE1/4 OF NE1/4 [0.92 A] E 60 FT OF FOLLOWING DESC; COM 50 FT S & 200 FT W OF NE COR OF NE1/4 OF NE1/4 TH S 669.06 FT TH W 495 FT TH N 669.25 FT TH E 495 TO POB.	Dirt Road Gravel Road Paved Road Storm Sewer Sidewalk Water Sewer Electric Gas Curb Street Lights Standard Utilities Underground Utils.	5000/AC	60	669.54	0.922 Acres	5,000	100		4,610
		0.92 Total Acres			Total Est. Land Value =		4,610		

Comments/Influences



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Licensed To: City of Escanaba, County of Delta, Michigan

Year	Land Value	Building Value	Assessed Value	Board of Review	Tribunal/Other	Taxable Value
2020	Tentative	Tentative	Tentative			Tentative
2019	2,300	2,300	4,600			4,600S
2018	2,300	2,600	4,900			4,900S
2017	2,305	2,557	4,862			4,862S

*** Information herein deemed reliable but not guaranteed***

Building Type		(3) Roof (cont.)		(11) Heating/Cooling			(15) Built-ins			(15) Fireplaces		(16) Porches/Decks		(17) Garage	
X	Single Family Mobile Home Town Home Duplex A-Frame		Eavestrough Insulation 0 Front Overhang 0 Other Overhang	X	Gas Wood	Oil Coal	Elec. Steam	Appliance Allow. Cook Top Dishwasher Garbage Disposal Bath Heater Vent Fan Hot Tub Unvented Hood Vented Hood Intercom Jacuzzi Tub Jacuzzi repl.Tub Oven Microwave Standard Range Self Clean Range Sauna Trash Compactor Central Vacuum Security System	Interior 1 Story Interior 2 Story 2nd/Same Stack Two Sided Exterior 1 Story Exterior 2 Story Prefab 1 Story Prefab 2 Story Heat Circulator Raised Hearth Wood Stove Direct-Vented Ga	Area	Type	Year Built: 1975 Car Capacity: Class: CD Exterior: Pole Brick Ven.: 0 Stone Ven.: 0 Common Wall: Detache Foundation: 18 Inch Finished?: Auto. Doors: 0 Mech. Doors: 1 Area: 864 % Good: 45 Storage Area: 0 No Conc. Floor: 0			
X	Wood Frame		(4) Interior Drywall Paneled	X	Forced Air w/o Ducts Forced Air w/ Ducts Forced Hot Water Electric Baseboard Elec. Ceil. Radiant Radiant (in-floor) Electric Wall Heat Space Heater Wall/Floor Furnace Forced Heat & Cool Heat Pump No Heating/Cooling										
Building Style: GARAGE		Trim & Decoration Ex X Ord Min													
Yr Built 0	Remodeled 0	Size of Closets Lg X Ord Small													
Condition: Good		Doors Solid X H.C.													
Room List		(5) Floors		Central Air Wood Furnace											
	Basement 1st Floor 2nd Floor Bedrooms	Kitchen: Other: Other:		(12) Electric 0 Amps Service											
(1) Exterior		(6) Ceilings		No./Qual. of Fixtures Ex. X Ord. Min			Cost Est. for Res. Bldg: 1 Single Family GARAGE					Cls CD		Blt 0	
X	Wood/Shingle Aluminum/Vinyl Brick Insulation			No. of Elec. Outlets Many X Ave. Few			(11) Heating System: Forced Air w/ Ducts Ground Area = 0 SF Floor Area = 0 SF. Phy/Ab.Phy/Func/Econ/Comb. % Good=73/100/100/73								
(2) Windows		(7) Excavation		(13) Plumbing			Building Areas Stories Exterior Foundation Size Cost New Depr. Cost								
X	Many Avg. X Large Avg. Small	Basement: 0 S.F. Crawl: 0 S.F. Slab: 0 S.F. Height to Joists: 0.0		1 Average Fixture(s) 3 Fixture Bath 2 Fixture Bath Softener, Auto Softener, Manual Solar Water Heat No Plumbing Extra Toilet Extra Sink Separate Shower Ceramic Tile Floor Ceramic Tile Wains Ceramic Tub Alcove Vent Fan			Other Additions/Adjustments Garages Class: CD Exterior: Pole (Unfinished) Base Cost								
(3) Roof		(8) Basement		(14) Water/Sewer			Notes: ECF (Res 2) 0.670 => TCV: 4,483								
X	Gable Hip Flat	Gambrel Mansard Shed	Conc. Block Poured Conc. Stone Treated Wood Concrete Floor	Public Water Public Sewer Water Well 1000 Gal Septic 2000 Gal Septic											
X	Asphalt Shingle	(9) Basement Finish Recreation SF Living SF Walkout Doors No Floor SF		Lump Sum Items:											
Chimney: Brick		(10) Floor Support Joists: Unsupported Len: Cntr.Sup:													

*** Information herein deemed reliable but not guaranteed***

Grantor	Grantee	Sale Price	Sale Date	Inst. Type	Terms of Sale	Liber & Page	Verified By	Prcnt. Trans.
HAHN MITCHELL	BOX-LANCILOTTI JAVAIS, WAT	10,000	08/28/2018	WD	ARMS LENGTH	1219/864	PTA	100.0
GEROU DANIEL	HAHN MITCHELL	10,000	07/30/2014	WD	ARMS-LENGTH	1110/398	DAINA NORDEN	100.0
GEROU LEONARD ALDAGE ESTA	GEROU DANIEL	0	05/11/2007	QCD	FAMILY	894/068		0.0
GEROU LEONARD	GEROU DAVID J	2,000	08/11/1995	WD	ARMS-LENGTH	443/653	DAINA NORDEN	0.0

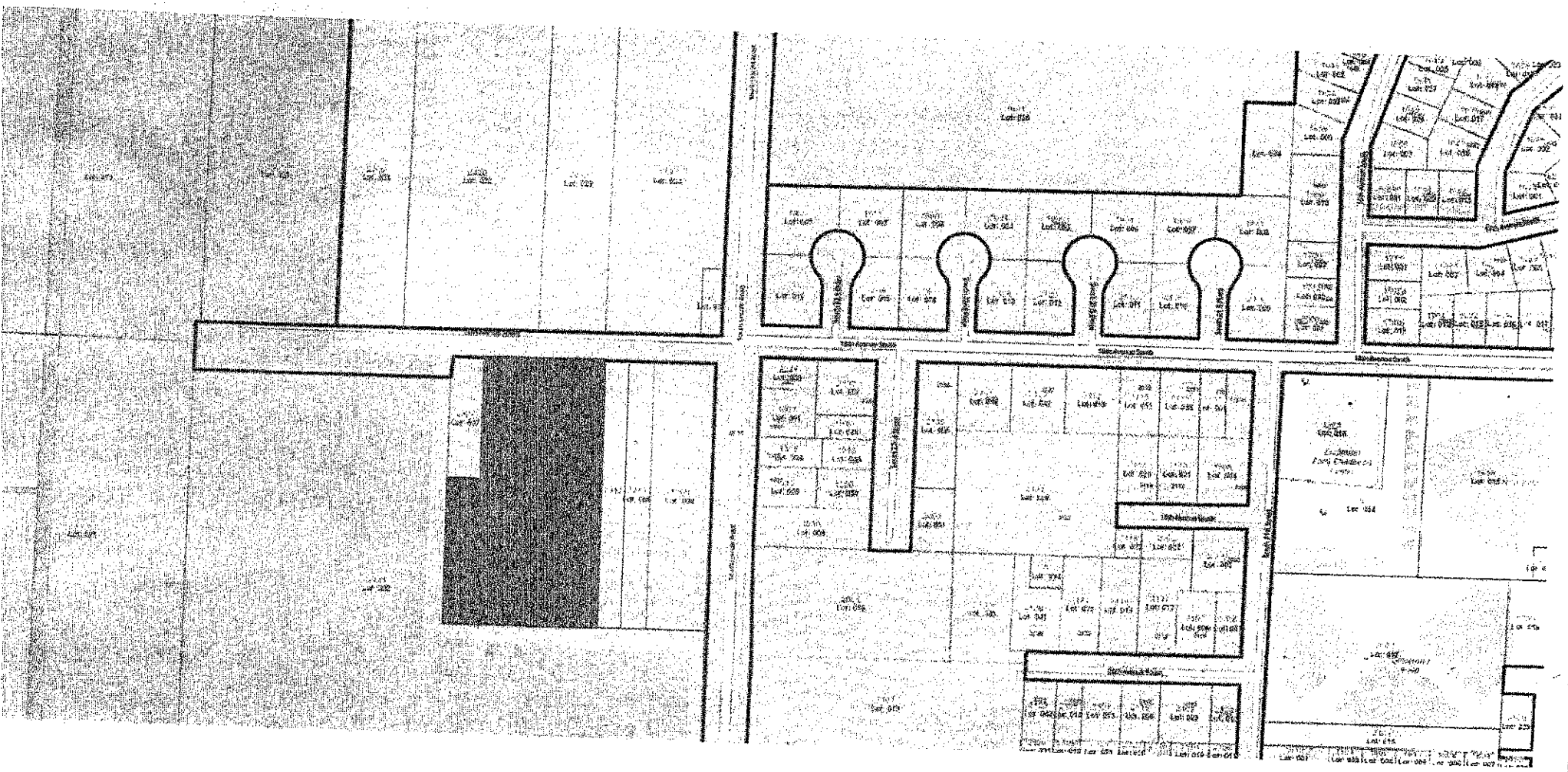
Property Address	Class: Residential, 401	Zoning:	Building Permit(s)	Date	Number	Status
2323 18TH AVE S						
School: Escanaba Schools 21010						
P.R.E. 0%						
Map #: 2						
2020 Est TCV Tentative						

Tax Description	Improved	X	Vacant	Land Value Estimates for Land Table 02.RES 2																																																	
SEC 1 T38N R23W [MAP#2] PRT OF FRL NE1/4 OF NE1/4 [5.24 A] COM 50 FT S & 320 FT W OF NE COR TH S 669.17 FT TH W 375 FT TH N 669.25 FT TH E 375 FT TO POB EXC N 300 FT OF W 75 FT THEREOF.	X			<table border="1"> <thead> <tr> <th>Description</th> <th>Frontage</th> <th>Depth</th> <th>Front</th> <th>Depth</th> <th>Rate</th> <th>%Adj.</th> <th>Reason</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>RES2-BASE RATE</td> <td>300.00</td> <td>669.00</td> <td>1.0000</td> <td>0.0000</td> <td>200</td> <td>100*</td> <td></td> <td>0</td> </tr> <tr> <td>3000/AC</td> <td></td> <td></td> <td></td> <td>5.240 Acres</td> <td>3,000</td> <td>100</td> <td></td> <td>15,720</td> </tr> <tr> <td colspan="8">* denotes lines that do not contribute to the total acreage calculation.</td> <td></td> </tr> <tr> <td colspan="8">300 Actual Front Feet, 5.24 Total Acres</td> <td>Total Est. Land Value = 15,720</td> </tr> </tbody> </table>					Description	Frontage	Depth	Front	Depth	Rate	%Adj.	Reason	Value	RES2-BASE RATE	300.00	669.00	1.0000	0.0000	200	100*		0	3000/AC				5.240 Acres	3,000	100		15,720	* denotes lines that do not contribute to the total acreage calculation.									300 Actual Front Feet, 5.24 Total Acres								Total Est. Land Value = 15,720
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Total Estimated Land Improvements				True Cash Value = 1,233																																																	
10 X 24 CON BLK SHED-POOR COND	X																																																				



Who	When	What	2020	Land Value	Building Value	Assessed Value	Board of Review	Tribunal/Other	Taxable Value
JM	06/13/2019	Picture Up	2019	7,900	600	8,500			8,500S
TW	09/18/2018	Data Enter	2018	13,100	400	13,500			13,500S
KD	08/21/2012	Data Enter	2017	13,100	459	13,559			13,559S

*** Information herein deemed reliable but not guaranteed***



Grantor	Grantee	Sale Price	Sale Date	Inst. Type	Terms of Sale	Liber & Page	Verified By	Prcnt. Trans.
CONNOR PATRICK M	NANCE JOSHUA & GAGNON RAN	62,500 <i>with house</i>	11/20/2018	WD	ARMS LENGTH	1225-674	PTA	100.0
CONNOR PATRICK & TAMMY	CONNOR PATRICK M	0	10/24/2016	JDG	COURT JUDGMENT	1170/448	KEVIN DUBORD	0.0
BEEOUT FAMILY TRUST	CONNOR PATRICK & TAMMY	0	11/15/2010	QCD	QCD	1001/938		100.0
MESSENGER RONALD & MARY	CONNOR PATRICK & TAMMY	65,000	12/07/2009	WD	ARMS-LENGTH	973/902		0.0

Property Address	Class: Residential, 401	Zoning:	Building Permit(s)	Date	Number	Status
3405 8TH AVE S						
	School: Escanaba Schools 21010					
	P.R.E. 100% 11/16/2018					
Owner's Name/Address	Map #: 343					
NANCE JOSHUA & GAGNON RANDI	2020 Est TCV Tentative					

Taxpayer's Name/Address	X Improved	Vacant	Land Value Estimates for Land Table 02.RES 2				Rate %Adj.	Reason	Value
			Description	Frontage	Depth	Front Depth			
PENINSULA FEDERAL CREDIT UNION ATTN: ESCROW DEPARTMENT PO BOX 717 ESCANABA MI 49829	X		Dirt Road	178.97	117.45	1.0000	100	35,794	
			Gravel Road						
			Paved Road						
			Storm Sewer						
			Sidewalk						
			Water						
			Sewer						
			Electric						
			Gas						
			Curb						
			Street Lights						
			Standard Utilities						
			Underground Utils.						
			182 Actual Front Feet, 4.59 Total Acres					Total Est. Land Value =	36,472

Tax Description	X	Topography of Site
SEC 36 T39N R23W THE W 169.7 FT OF E 509.3 FT OF SW1/4 OF NW1/4 EXC N 183 FT AND EXC S 10 FT AND EXC BEG 990.97 FT E OF W1/4 OF COR, TH N1°21'35"E 1311.02 FT, TH N89°49'E 328.5 FT TO NE COR OF SW1/4 OF NW1/4, TH S TO SE COR OF FORTY, TH	X	Level Rolling Low High Landscaped Swamp Wooded Pond Waterfront Ravine Wetland Flood Plain



Year	Land Value	Building Value	Assessed Value	Board of Review	Tribunal/Other	Taxable Value
2020	Tentative	Tentative	Tentative			Tentative
2019	18,200	18,700	36,900			36,900S
2018	17,300	21,200	38,500			37,528C
2017	17,309	20,172	37,481			36,757C

*** Information herein deemed reliable but not guaranteed***

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Licensed To: City of Escanaba, County of Delta, Michigan

Building Type		(3) Roof (cont.)		(11) Heating/Cooling			(15) Built-ins		(15) Fireplaces		(16) Porches/Decks		(17) Garage		
X	Single Family Mobile Home Town Home Duplex A-Frame		Eavestrough Insulation 0 Front Overhang 0 Other Overhang	X	Gas Wood	Oil Coal	Elec. Steam	Appliance Allow. Cook Top Dishwasher Garbage Disposal Bath Heater Vent Fan Hot Tub Unvented Hood Vented Hood Intercom Jacuzzi Tub Jacuzzi repl. Tub Oven Microwave Standard Range Self Clean Range Sauna Trash Compactor Central Vacuum Security System	1	Interior 1 Story Interior 2 Story 2nd/Same Stack Two Sided Exterior 1 Story Exterior 2 Story Prefab 1 Story Prefab 2 Story Heat Circulator Raised Hearth Wood Stove Direct-Vented Ga	Area 25	Type CPP	Year Built: 1952 Car Capacity: Class: CD Exterior: Siding Brick Ven.: 0 Stone Ven.: 0 Common Wall: 2 Wall Foundation: 42 Inch Finished?: Auto. Doors: 1 Mech. Doors: 0 Area: 287 % Good: 0 Storage Area: 0 No Conc. Floor: 0		
X	Wood Frame		Drywall Paneled	X	Forced Air w/o Ducts Forced Air w/ Ducts Forced Hot Water Electric Baseboard Elec. Ceil. Radiant Radiant (in-floor) Electric Wall Heat Space Heater Wall/Floor Furnace Forced Heat & Cool Heat Pump No Heating/Cooling										
Building Style: RANCH		Trim & Decoration		Central Air Wood Furnace											
Yr Built 1952	Remodeled 0	Ex	X Ord	Min	(12) Electric										
Condition: Good		Lg	X Ord	Small	0 Amps Service										
Room List		(5) Floors		No./Qual. of Fixtures											
1	Basement	Kitchen:		X	Ex.	Ord.	Min	Cost Est. for Res. Bldg: 1 Single Family RANCH				Cls CD		Blt 1952	
6	1st Floor	Other:		No. of Elec. Outlets					(11) Heating System: Forced Air w/ Ducts						
	2nd Floor	Other:		Many	X	Ave.	Few	Ground Area = 1501 SF Floor Area = 1501 SF.							
3	Bedrooms			(13) Plumbing					Phy/Ab.Phy/Func/Econ/Comb. % Good=45/100/80/100/36						
(1) Exterior		(6) Ceilings		Average Fixture(s)					Functional Depreciation because of: ACCESS/EASEMENT						
X	Wood/Shingle Aluminum/Vinyl Brick			1	3 Fixture Bath 2 Fixture Bath Softener, Auto Softener, Manual Solar Water Heat No Plumbing Extra Toilet Extra Sink Separate Shower Ceramic Tile Floor Ceramic Tile Wains Ceramic Tub Alcove Vent Fan					Building Areas					
X	Insulation	Basement: 1501 S.F. Crawl: 0 S.F. Slab: 0 S.F. Height to Joists: 0.0							Stories Exterior Foundation Size Cost New Depr. Cost						
(2) Windows		(8) Basement		(14) Water/Sewer					1 Story Siding Basement 1,501						
X	Many Avg. X Few	X	Large Avg. X Small	Recreation SF Living SF Walkout Doors No Floor SF					Total: 141,298 50,867						
Wood Sash Metal Sash Vinyl Sash Double Hung Horiz. Slide Casement Double Glass Patio Doors Storms & Screens		Conc. Block Poured Conc. Stone Treated Wood Concrete Floor							Other Additions/Adjustments						
(3) Roof		(9) Basement Finish							Porches CPP 25 507 183						
X	Gable Hip Flat	Gambrel Mansard Shed	Recreation SF Living SF Walkout Doors No Floor SF							Garages					
X	Asphalt Shingle	Chimney: Brick							Class: CD Exterior: Siding Foundation: 42 Inch (Unfinished)						
									Base Cost 287 10,596 3,815						
									Common Wall: 2 Wall 1 -3,736 -1,345						
									Door Opener 1 361 130						
									Water/Sewer						
									Public Water 1 988 356						
									Public Sewer 1 988 356						
									Fireplaces						
									Interior 1 Story 1 3,500 1,260						
									Totals: 154,502 55,622						
									Notes: MOVED TO SITE 1987						
									ECF (Res 2) 0.670 => TCV: 37,267						

*** Information herein deemed reliable but not guaranteed***

From: "Patrick Jordan" <pjordan@escanaba.org>
To: "council Mailing List" <council@escanaba.org>, "ralph@blasier.org" <ralph@blasier.org>, [REDACTED] <[REDACTED]>
Cc: "Phil Demay" <pdemay@escanaba.org>, "Tammy Weissert" <tweissert@escanaba.org>
Date: 08/20/2019 11:40 AM
Subject: Zubke Property

Here is the information on the 25th Pl property Mr. Zubke wants to purchase. We'll also include it in the packet under Unfinished Business.

Patrick

From: "James McNeil" <jmcneil@escanaba.org>
To: "Patrick Jordan" <pjordan@escanaba.org>
Date: Tue, 20 Aug 2019 11:28:39 -0400
Subject: Zubke Property

Patrick,

I found this property to be worth \$22,000 - \$26,000 when applying the hypothetical condition that the lot has infrastructure and can be readily developed similar to other residential vacant land. An appraisal found the property to be worth \$24,000.

The property is currently far from the hypothetical condition. I have not yet heard back from EGLE. However, there are some resources available. The .92 acre lot appears to be 75% covered by wetlands (.23 acres), according to an EGLE "Identified Wetlands Map." I cannot attest to the accuracy of the map, but a wetland determination data form appears to confirm some presence of wetlands. Also, there only appears to be certain infrastructure/utilities in place.

Comparable properties for this site are difficult to find. Sales on 18th Avenue extended towards the airport may be more comparable, yet there is little consistency. 2313 18th Ave S, which contains a small garage, sold for \$10,000 in 2014. This is about .92 acres and about 40% covered by identified wetlands. Although the acreage is similar, the shape is less useful in the comparable property as it is about 60' x 669'.

Perhaps a pragmatic approach may be valuing the portion of the land that is not wetlands. 25% of the appraised value would be \$6,000. Given this information, it seems reasonable that this lot would be worth somewhere in the \$10,000 +/- \$4,000. A plus or minus should be considered because of uncertainties regarding the exact size of the wetlands and lack of comparable properties.

Various maps are attached.

Sincerely,

James McNeil
Assistant Assessor
City of Escanaba
(906) 789-7322



2800
Lot: 022

0
Lot: 075

0
Lot: 070

1116
Lot: 006

1120
Lot: 007

1124
Lot: 009

0
Lot: 098

1125
Lot: 036

2400
Lot: 037

0
Lot: 038

1124
Lot: 048

0
Lot: 005

2530
Lot: 006

2510
Lot: 011

0
Lot: 008

0
Lot: 009

0
Lot: 010

1124
Lot: 048

Lot: 002

1104
Lot: 003

1108
Lot: 004

1112
Lot: 005

2416
Lot: 095

2315
Lot: 035

1110
Lot: 044

1116
Lot: 045

1118
Lot: 046

1120
Lot: 047

1106
Lot: 043

1108
Lot: 064

1026
Lot: 042

2211
Lot: 001

2209
Lot: 002

1305
Lot: 017

1307
Lot: 018

2210
Lot: 029

1121
Lot: 026

1117
Lot: 024

1115
Lot: 060

1109
Lot: 061

1105
Lot: 020

1103
Lot: 018

0
Lot: 003

North Lincoln Road

North Lincoln Road

X

Saturated

Map Legend

Change what items you see on the map by using the checkboxes

Wetland Data

Wetland (Hydric) Soils

National Wetlands Inventory 2005

Potential Wetland Restoration

Highest Potential - Hydric and

Presettlement Wetland Overlay

High Potential - Hydric Soils Only

Moderate Potential - Presettlement

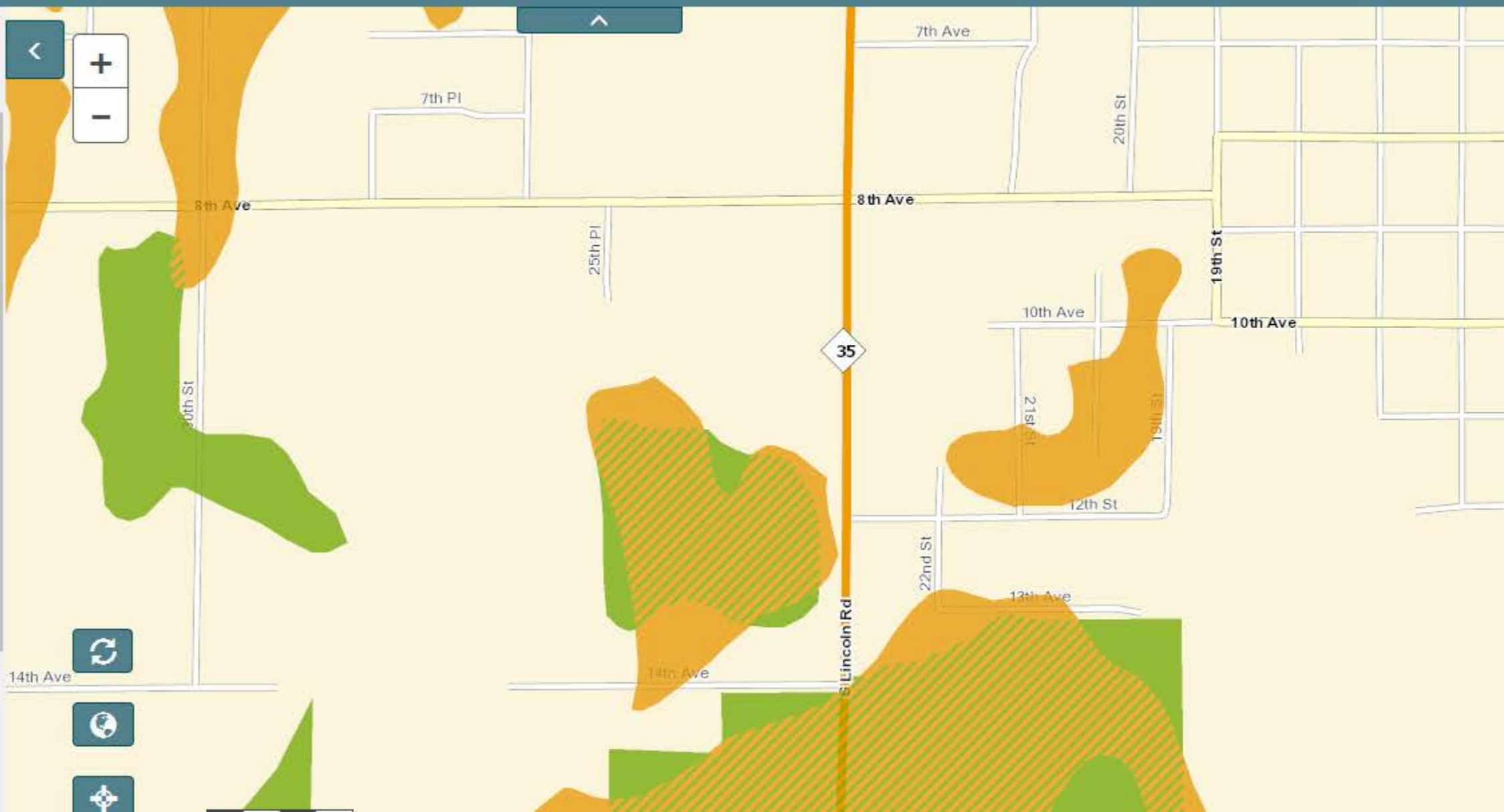
Wetlands Only

Part 303 Final Wetlands Inventory

Wetlands as identified on NWI and MIRIS maps

Soil areas which include wetland soils

Wetlands as identified on NWI and MIRIS maps and soil areas which include wetland soils







WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Zubko pre app City/County: Escanaba, Delta Co. Sampling Date: 6/24/2019
 Applicant/Owner: _____ State: MI Sampling Point: 1
 Investigator(s): Soucy Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope %: _____
 Subregion (LRR or MLRA): LRR K, MLRA 94B Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	if yes, optional Wetland Site ID:	_____
Wetland Hydrology Present?	Yes <u>X</u> No _____		

Remarks: (Explain alternative procedures here or in a separate report.)
 Hydrologic regime may be altered, site seemed too dry for this year's saturation levels. However, two secondary indicators were still identified along with a mucky sandy mineral soil which matched up with NRCS Web Soil Survey, and a dominance of glossy buckthorn for a scrub shrub wetland type.

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		_____ Surface Soil Cracks (B6)	
_____ Surface Water (A1)	_____ Water-Stained Leaves (B9)	_____ Drainage Patterns (B10)	
_____ High Water Table (A2)	_____ Aquatic Fauna (B13)	<u>X</u> Moss Trim Lines (B16)	
_____ Saturation (A3)	_____ Marl Deposits (B15)	_____ Dry-Season Water Table (C2)	
_____ Water Marks (B1)	_____ Hydrogen Sulfide Odor (C1)	_____ Crayfish Burrows (C8)	
_____ Sediment Deposits (B2)	_____ Oxidized Rhizospheres on Living Roots (C3)	_____ Saturation Visible on Aerial Imagery (C9)	
_____ Drift Deposit (B3)	_____ Presence of Reduced Iron (C4)	_____ Stunted or Stressed Plants (D1)	
_____ Algal Mat or Crust (B4)	_____ Recent Iron Reduction in Tilled Soils (C6)	<u>X</u> Geomorphic Position (D2)	
_____ Iron Deposits (B5)	_____ Thin Muck Surface (C7)	_____ Shallow Aquitard (D3)	
_____ Inundation Visible on Aerial Imagery (B7)	_____ Other (Explain in Remarks)	_____ Microtopographic Relief (D4)	
_____ ? Sparsely Vegetated Concave Surface (B8)		_____ FAC-Neutral Test (D5)	

Field Observations:	
Surface Water Present? Yes _____ No _____ Depth (inches): _____	Wetland Hydrology Present? Yes <u>X</u> No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Agenda Item: NB-1
Date: 8/27/19

City Council Agenda Item Request

Date: August 27, 2019

Name: Patrick Jordan

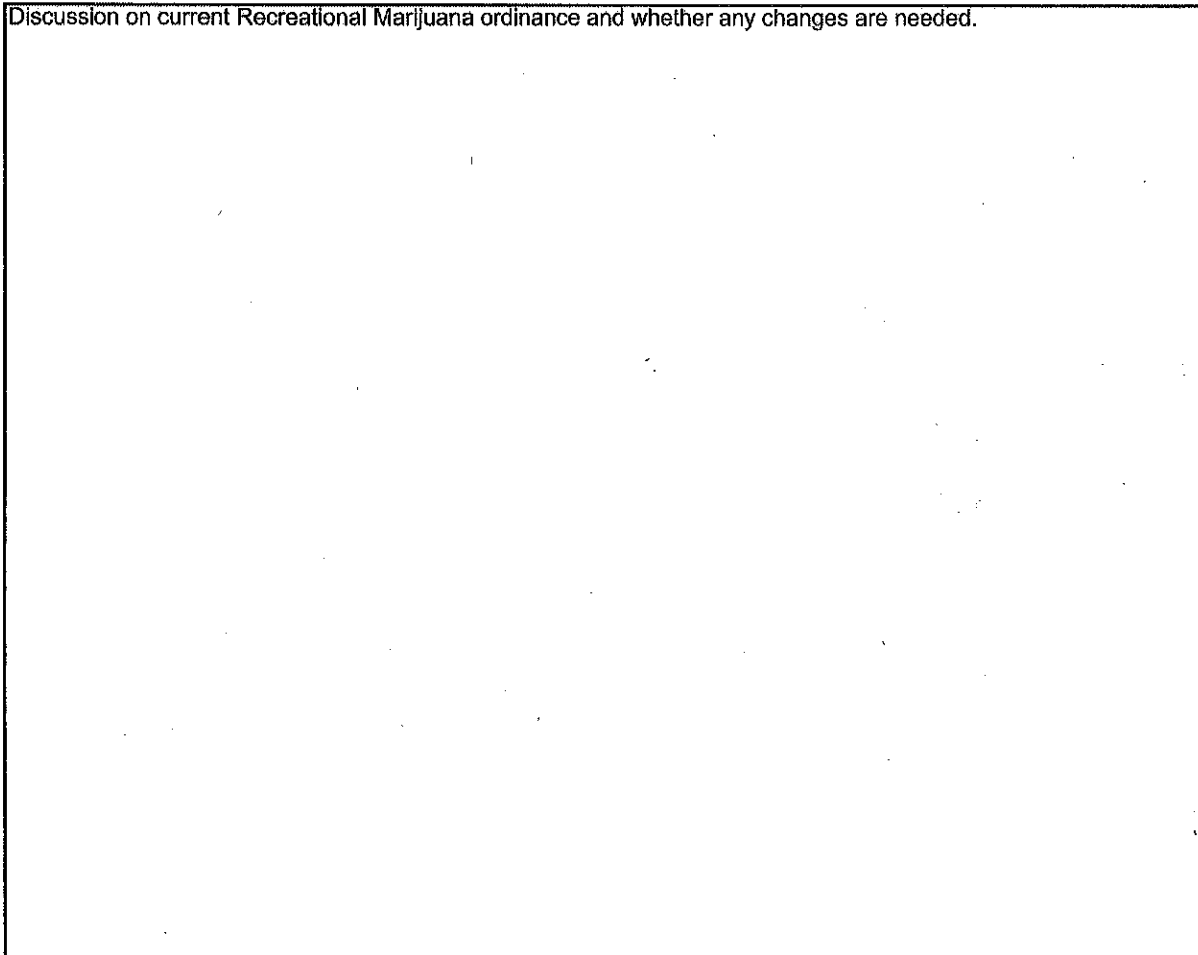
Department: Administration

Item: Discussion and/or Direction on Recreational Marijuana Ordinance

Meeting date requested: Sept. 5, 2019

Explanation for request:

Discussion on current Recreational Marijuana ordinance and whether any changes are needed.



Agenda Item: NB-2
Date: 9-5-19

City Council Agenda Item Request

Date: 08/19/19

Name: Kim Peterson

Department: Recreation

Item: Community Action Agency Lease Approval

Meeting date requested: 09/05/19

Explanation for request:

Approval of an annual lease for office space at the Catherine Bonifas Civic Center.

**COMMUNITY ACTION AGENCY (CAA) LEASE
OF CATHERINE BONIFAS CIVIC CENTER
(September 1, 2019, through August 31, 2020)**

IT IS AGREED, between the CITY OF ESCANABA (City) and the DELTA-MENOMINEE-SCHOOLCRAFT COMMUNITY ACTION AGENCY (CAA), as follows:

The City, in consideration of fees, restrictions and covenants herein specified, does hereby lease to the CAA the following specified areas located in the Catherine Bonifas Civic Center, 225 North 21st Street, Escanaba, Michigan:

1. **ROOM ASSIGNMENTS, USES, AND CONDITIONS**

A. **Room Number**

- 101 Senior Citizens Center
May be utilized exclusively for Senior General Office activities.
- 102 Senior Citizens Center – Client Service Room
May be utilized exclusively to carry out client services as related to Senior Center.
- 103 Senior Citizens Center – Director’s Office
May be utilized exclusively by coordinator to carry out business related to the Senior Center.
- 104 Senior Citizens Center – Computer Room
May be used for Senior Citizens activities.
- 106 Senior Citizens Center – Activities Room
May be utilized for the purpose of promoting social, cultural and recreational activities for Senior Citizens. To be made available to Recreation Department if not used for Senior activities.
- 114 May be utilized, upon request, for Senior activities. Subject to approval of Recreation Director.
- 115 May be utilized, upon request, for Senior activities. Subject to approval of Recreation Director.
- 119 Senior Center supplies/storage.
- 121 May be utilized, upon request, for Senior activities. Subject to approval of Recreation Director.
- Game Room
May be utilized daily during morning and/or early afternoon hours for Senior Citizens recreational activities. May also be utilized for parties and special holiday occasions, subject to approval of Recreation Director.

Gymnasium

May be utilized for Senior Citizen Recreation activities, subject to approval of Recreation Director.

Kitchen Facilities

May be utilized for special occasions for Senior Citizens parties, dances, and social functions at the approval of the Recreation Director.

- B. Activities in the following rooms may be cancelled or postponed, with notice by the City, for its own use or use by another organization:

Room 114 (24 hour notice)
Room 115 (24 hour notice)
Game Room (24 hour notice)
Gymnasium (24 hour notice)
Room 121 (24 hour notice)
Main Room (24 hour notice)

- C. 1. CAA and/or Senior Citizens use of building facilities, other than the 1.A of this document, will be assigned if the space is available. The City retains the right to cancel reservations or refuse any request for space according to the Civic Center Reservation Policy.
2. CAA use of Civic Center facilities for purposes not associated with local Senior Citizen programs shall be subject to reservation fees as outlined in the Civic Center Reservation Policy.
3. Keys for exterior doors shall be limited to Senior Center Director and one assistant.
- D. All Senior Center activities may be conducted between the hours of 7:30 a.m. and 4:00 p.m., Monday through Friday. Weekend and evening senior activities are encouraged and may be scheduled with prior arrangements made with the Recreation Director.

2. JANITORIAL RESPONSIBILITIES

- A. The Community Action Agency will be responsible for the cleanliness of the following areas:

Room 101 – Kitchen
Room 102 – Client Service Room
Room 103 – Director's Office
Room 104 – Computer Room
Room 106 – Lounge/Activities Room
Room 119 – Supplies/Storage
Restrooms located on the west side of the building

Proper cleaning of all rooms occupied by Senior Citizens after the termination of any activities in the Game Room, Room 114, Room 115, Room 121, Main Room, Gymnasium and Kitchen Facilities. Periodic cleaning of west end hallway commencing from west entrance to Main Meeting Room. Periodic cleaning of trash cans. Periodic cleaning of the west end restrooms.

- B. CAA shall be responsible for the purchase of all janitorial supplies, with the exception of floor cleaning materials.
- C. CAA shall be responsible for shoveling and salting of all sidewalks, including the entrance, located on the west side of the building.
- D. The CAA shall provide a trash dumpster to dispose of all trash and perishable foods generated as a result of the CAA nutrition program and other Senior Center related activities. The size of the dumpster shall adequately accommodate trash from CAA activities. The dumpster shall have a lid and a lock and will be placed by the Recreation Director. Trash from the dumpster shall be disposed of once weekly.

3. **UTILITIES**

CAA shall remit a payment of Three Hundred Dollars (\$300) payable to the City of Escanaba in payment for utility use. Said payment shall be due and payable on the 15th of every month.

4. **SENIOR CITIZENS CENTER SUPERVISION**

All CAA – Senior Citizen activities will be under the jurisdiction of the Center Coordinator. Complaints and/or suggestions by Senior Citizens utilizing the facility shall be directed to the Center Coordinator. If the complaint or suggestion involves the City, the Center Coordinator or the Senior Citizen Program Director must contact the Recreation Director.

5. **ABANDONMENT**

The CAA must notify the Recreation Director thirty (30) days in advance if the CAA:

- A. Plans to discontinue use of any room included in this lease document as illustrated under #1; or
- B. Plans to change or alter the activity designated for each leased room as illustrated under #1.

Under no circumstances shall CAA/Senior Citizen Center rooms be altered in use and/or purpose without the knowledge and permission of the Recreation Director.

6. **LEASE TERM, RENTAL, AND REVIEW**

- A. The term of the lease agreement shall be one (1) year, commencing on September 1, 2019, and terminating on August 31, 2020.
- B. An annual fee of Nine Thousand One Hundred Forty-Eight Dollars (\$9,148) shall be due to the City in equal monthly payments.
- C. The City and CAA shall meet at least thirty (30) days prior to the expiration of this lease each year to review and/or modify terms of this agreement.

7. INDEMNITY

CAA agrees to indemnify and hold harmless the City, its officers, employees and representatives from any and all loss, expense, damage, demands, claims and liability, for any injury or alleged injury to persons (including sickness, disease, or death) and for damage or alleged damage to property including property of the City and/or loss of use thereof arising out of CAA's use of said premises and CAA further agrees to defend any suit or action brought against the City, its officers, employees or representatives based upon any such injury or damage and CAA agrees to pay all damages, costs and expenses including attorney's fees in connection with such suit or action resulting therefrom; provided, however, that CAA's aforesaid indemnity and hold harmless agreement shall not extend to any loss, expense, damage, demand, claim or liability finally determined to have been due to the sole negligence of the City, its officers, employees, or representatives that CAA's agreement is for the exclusive benefit of the City and shall in no event insure to the benefit of any third party; provided further, that the City shall have the right to defend any action brought against the City or to tender such defense to CAA.

8. INSURANCE

The Community Action Agency shall obtain and maintain in force an insurance policy or policies insuring against losses arising from claims or personal illness, injury, death and property damage liability in connection with CAA program activities in the Catherine Bonifas Civic Center in the minimum amount of One Million Dollars (\$1,000,000) Combined Single Limits. The policy or policies evidencing such insurance delivered to the City without delay, and renewals thereof shall be delivered by CAA to the City at least thirty (30) days prior to respective expiration dates. The City of Escanaba shall be named as an "additional insured" to all policies affecting this lease agreement. The lessee shall deliver evidence, insurance certificate, of said insurance prior to occupancy or renewal date.

IN WITNESS WHEREOF, the parties have executed this Lease at Escanaba, Michigan, on the _____ day of _____, 2019.

In the Presence of:

CITY OF ESCANABA, Lessor

By: _____
Marc D. Tall, Its Mayor

By: _____
Phil Demay, Its City Clerk

DELTA-MENOMINEE-SCHOOLCRAFT
COMMUNITY ACTION AGENCY,
Lessee

By: 
Julie Moberg
Its: Deputy Executive Director

By: _____
Sally Kidd
Its: Program Director

Agenda Item: NB-3
Date: 9-5-19

City Council Agenda Item Request

Date: 08/27/19

Name: Kim Peterson

Department: Recreation Department

Item: Traffic Signal Design Service - Contract Approval

Meeting date requested: 09/05/19

Explanation for request:

As part of the North City Limits Non-Motorized Pathway Project, traffic signal design services for US-2/41, M35 (North Lincoln Road) and Danforth Road intersection is required by MDOT.

Bids were advertised and sent to two firms with no bids submitted. The Engineering Department then solicited bids from several other firms with only one bid being received. The work must be performed by a MDOT pre-qualified company.

City Administration would like to obtain Orchard, Hiltz and McCliment, Inc. (OHM) from Hancock, Michigan, for traffic signal design services in the amount of \$12,845.10.

DERIVATION OF PRIME CONSULTANT COSTS

Summary of all Prime Costs for ALL JOB NUMBERS (Including phases) for all services provided. Use additional pages as necessary.

MDOT CONTROL SECTION(S) - JOB NUMBER(S): <p style="text-align: center;">CS - JN</p>	CONTRACT / AUTHORIZATION #:	FIRM ROLE: <p style="text-align: center;">Prime Firm</p>
PRIME CONSULTANT NAME: <p style="text-align: center;">Orchard, Hiltz & McCliment, Inc.</p>	PROJECT DESCRIPTION: <p style="text-align: center;">Escanaba Traffic Signal Design</p>	

PRIME LABOR:							
<i>CLASSIFICATION</i>	<i>HOURS</i>	<i>x</i>	<i>RATE/HR</i>	<i>=</i>	<i>LABOR COST</i>		
Associate	4	x	\$ 52.32	=	\$	209.28	
Prof Eng/Arch II	46	x	\$ 38.49	=	\$	1,770.54	
Prof Eng/Arch I	18	x	\$ 32.72	=	\$	588.96	
Technician III	18	x	\$ 30.98	=	\$	557.64	
Prof Surveyor III	12	x	\$ 46.39	=	\$	556.68	
Surveyor III	12	x	\$ 30.13	=	\$	361.56	
Total Hours:					110		
					Total Labor	\$	4,044.66

PRIME OVERHEAD: (Total Labor x Overhead Rate)		
Overhead Rate:	<u>185.38%</u>	Total Overhead \$ 7,497.99

PRIME FACILITIES CAPITAL COST OF MONEY (F.C.C.M.): (Total Labor x F.C.C.M. Rate)		
F.C.C.M. Rate:	<u>0.81%</u>	Total F.C.C.M. \$ 32.76

PRIME FIXED FEE FOR PROFIT: ((Total Labor + Total Overhead) x 11%)		
Fixed Fee Rate:	<u>11%</u>	Total Fixed Fee \$ 1,269.69

TOTAL PRIME FIRM COSTS \$		12,845.10
<i>Firm Role: Prime Firm</i> <i>Note: Payment Method = ACFF</i>		



Scope of Services

Traffic Signal Design Services, Escanaba Non-Motorized Path Project

A. General

The scope for this project is for traffic signal design services associated with the City of Escanaba Non-Motorized Path Project. These design services will consist of installing pedestrian signals for crossing the north leg of the US-2/41, M-35 (N. Lincoln Rd) at Danforth Rd.

OHM design efforts will follow the design requirements defined in the scope of services and defined in the MDOT Layout Request Form. These efforts will meet all MDOT and City design standards and requirements.

OHM would request an MDOT Layout Request Form from MDOT Operations which would define the signal devices to be included for this project. OHM anticipates this to include additional countdown type pedestrian signals, pedestrian pushbuttons, associated structural supports and infrastructure for the pedestrian crossing of the north leg of US-2/41, M-35 only. The existing signal equipment appears to be up to date and OHM does not anticipate MDOT to require updates. MDOT will require the new path to meet all ADA requirements including ramp and landing areas meeting all grade requirements. OHM anticipates the need for concrete sidewalk ramps and landing areas at the intersection to provide these grades and has included cost in the proposal to provide this design. OHM understands the path design will be done by the City of Escanaba and will generally be HMA. OHM will coordinate the design of the ramps, landings and signal equipment with the City's path design to ensure ADA compliance. OHM has included topographic survey in its scope. OHM survey will consist of general geometry of all 4 legs of the intersection including pavement, curb, sidewalk and structures associated with existing signal equipment or utilities. It will also provide grade elevation data necessary to design for ADA compliance. OHM will use ROW and utility information depicted on City plans and will assist the City with mitigation of potential utility conflicts

OHM will utilize the survey data to create a base plan from which concept signal plans will be completed. OHM will coordinate an onsite field meeting inviting MDOT, City of Escanaba, and utility representatives. Concept plans will be provided to all participants of this meeting. A Miss Dig ticket will be requested, and proposed signal equipment locations will be staked prior to the meeting. At this meeting the general layout of the traffic signals and proposed equipment locations will be compared to utility markings on-site and potential utility conflicts resolved to the extent possible first by adjusting proposed signal equipment locations. OHM will assist the City should further mitigation be necessary.

The information gained from the on-site field meeting will be incorporated into the base plans. Plan notes, wiring diagrams and materials list will be added and submitted for GI plan review. OHM will provide plans, special provisions and the engineer's estimate. If requested, OHM will participate in the GI review meeting by telephone. Comments from this meeting will be addressed and final plans will be completed. The Final Plan package will include general notes, plans, standard details, special provisions and the engineer's estimate. OHM will also assist the City in obtaining MDOT permit approval.

NOTICE TO BIDDERS

Sealed bids will be received by the City of Escanaba at the office of the City Clerk, on or before 2:00 p.m., local time on **Thursday, August 1st, 2019.**

TO: Design traffic signal to include non-motorized pathway crossing

The bids will be publicly opened and read in Room C-102 in the City Hall at 410 Ludington Street, Escanaba, Michigan at said date and time.

Bidder's proposal, and/or specifications may be obtained from the office of the City Clerk, located at 410 Ludington Street, Escanaba, MI 49829. No bids will be considered unless the proposal from and/or specifications (furnished by the City of Escanaba, Michigan), are properly completed and enclosed in a sealed envelope, marked:

Signal Design Bid – North City Limits Non-Motorized Pathway

In addition, the City of Escanaba, Michigan will not consider any proposal, which has not been received prior to the published time, date and year of bid opening. (Fax transmittals will not be accepted.)

The City of Escanaba, Michigan reserves the right to reject any or all bids, or any part thereof at its discretion, and to waive any irregularities in the bidding. The City of Escanaba, Michigan may also split bids at its discretion. The City further reserves the right to negotiate directly with any and all bidders concerning any matter related to any bid.

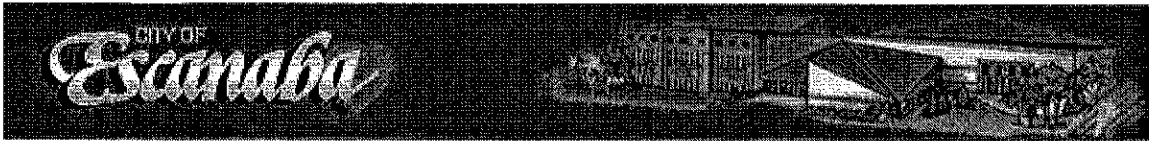
The City of Escanaba, Michigan bids are prepared to afford all vendors the equal opportunity for fair and equitable competition. The City of Escanaba, Michigan assumes no liability or responsibility for any errors or oversights in the preparation and/or publication of bids.

Phil DeMay
City Clerk
City of Escanaba

Request for Bids sent to:

AECOM
1050 Wilson Street
Marquette, MI 49855

U.P. Engineers & Architects, Inc.
100 Portage Street
Houghton, MI 49931



REQUEST FOR BIDS

Thursday, July 18, 2019

Dear Sir/Madam:

The City of Escanaba, will receive qualification-based competitive bids for Design – Traffic: Signal as part of the City of Escanaba North City Limits Non-Motorized Pathway project. This project includes installing a non-motorized pathway along the east right-of-way of North Lincoln Road from 20th Avenue North to the existing signal at Danforth Road and along the west right of way of North Lincoln Road from the City Limits to same signal. The goal of this bid is to redesign the existing signal to include a non-motorized pathway crossing on the north side of the light. This design will be included in the North City Limits Non-Motorized Pathway project plans to be submitted to MDOT on October 1, 2019.

Bids will be received by the City of Escanaba Office of the City Clerk until Thursday, August 1st, 2019 at 2:00 PM EST Bids must arrive before the date and time specified. "Fax copies will not be allowed."

Bid Proposals, both hard copy and digital copy can be obtained in person at the City of Escanaba, Engineering Department, 1715 Sheridan Road or by request to Wendy Taavola at 906-786-1842; wtaavola@escanaba.org

This project will be a standard MDOT contract with construction slated for July – October 2020. The letting date on this project will be early spring 2020. All Michigan Department of Transportation guidelines for construction will be followed on this project.

The award of this project will be based upon qualification, experience and total cost. Please breakdown cost by items of work. The City of Escanaba, reserves the right to eliminate portions of the bid.

Submit Bids to:

City of Escanaba
City Clerk
410 Ludington Street
Escanaba, MI 49829

RE: Signal Design Bid – North City Limits Non-Motorized Pathway

ITEMS OF WORK

Design – Traffic Signal/Pedestrian Crossing items of work

PROJECT SPECIFICS

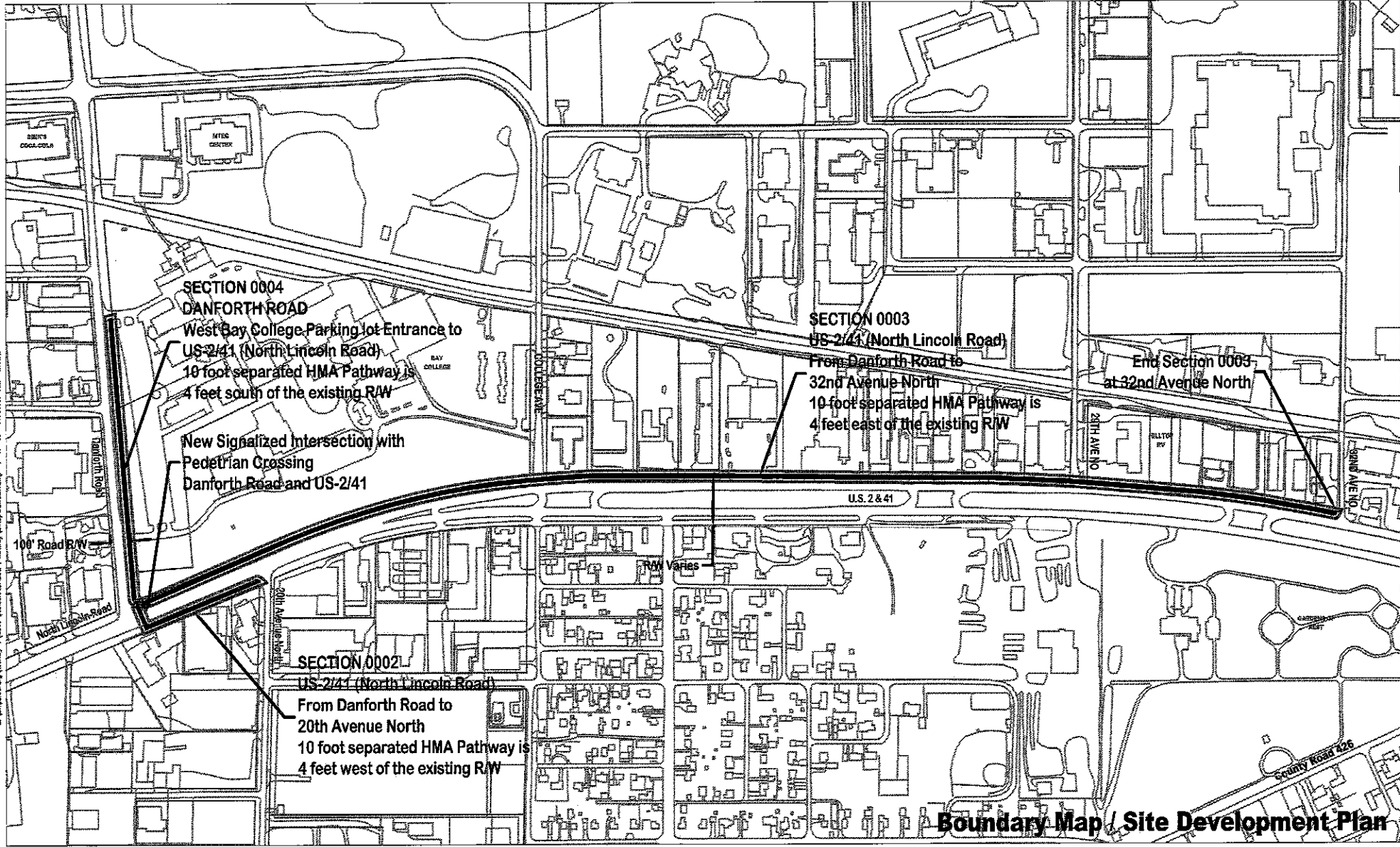
Must be MDOT Prequalified Service Vendor

Signal Location: North Lincoln Road (US-2/41) at Danforth Road







Dates of Project Construction: July 2020 - October 2020

Complete MDOT Preliminary Plan: October 1, 2019

Contact Wendy Taavola at 906-786-1842 wtaavola@escanaba.org with questions.



Non-Motorized Pathway-Escanaba North Existing and Proposed Routes

-  Signed Shared Use Pathway
-  Wider Paved Shoulders
-  Separated Bike Path
-  Bike Lanes
-  Existing Designated Bike Route
-  Estimate Coregory Number



PREPARED FOR:
CITY OF ESCANABA
 410 LUDINGTON STREET ESCANABA, MICHIGAN 49829
 (906) 786-1842 or 789-3795 FAX: (906) 789-3795



Agenda Item: NB-4
Date: 9-5-19

City Council Agenda Item Request

Date: 8/27/19

Name: Kim Gustafson

Department: HR Director/Treasurer

Item: Assessor Contract

Meeting date requested: 9/5/19

Explanation for request:

Approval of Assessor Jim McNeil's contract.

Agenda Item: NB-5
Date: 9-5-19

City Council Agenda Item Request

Date: 8/29/19

Name: Bob Becotte

Department: DPW/Engineering

Item: Approval of CIPP Storm Sewer Lining Bid

Meeting date requested: 9/5/19

Explanation for request:

Bids for the 2019 CIPP sewer lining project were solicited and were opened on August 27th. Four bids were received. The bids were split into two separate bids: storm sewer (Area 1) and sanitary sewer (Areas 2-5). The storm sewer portion is on North 20th Street from 3rd Avenue North to 6th Avenue North.

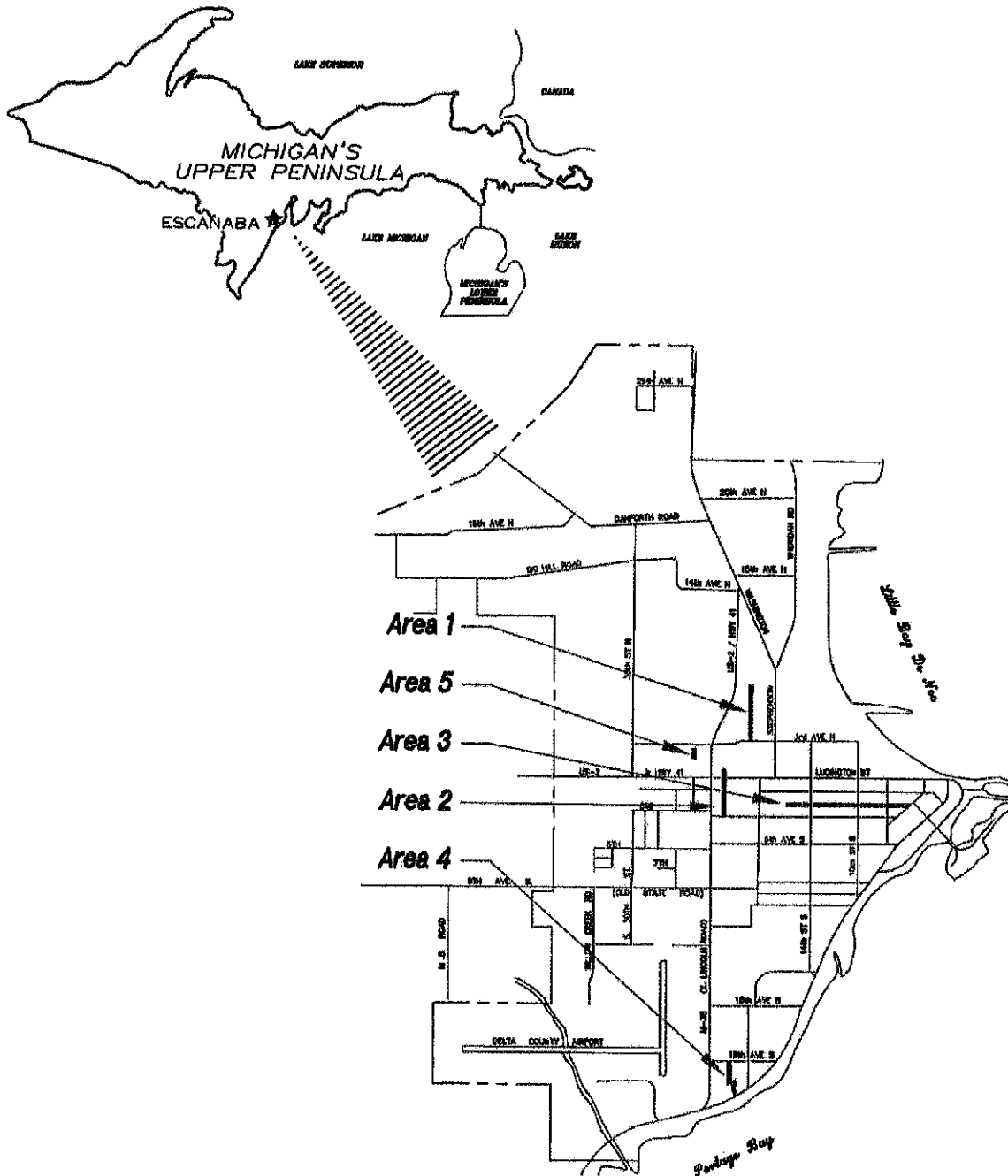
Administration recommends the approval of the storm sewer portion of the 2019 CIPP sewer lining project bid from Tunnel Vision Pipeline Services. Since final quantities are unknown, it is requested that the bid be approved for the unit prices as bid. This is a budgeted item and is under budget as bid.

PLANS OF PROPOSED
JOB No. 19-0004

2019 CIPP SEWER LINING PROJECTS

- Area 1: (Storm Sewer) North 20th Street, 3rd Avenue North to 6th Avenue North
- Area 2: (Sanitary Sewer) 22nd Street
- Area 3: (Sanitary Sewer) 2nd Avenue South, South 16th Street to South 4th Street
- Area 4: (Sanitary Sewer) South 22nd Street, 23rd Avenue South to Lakeshore Drive
- Area 5: (Sanitary Sewer) Delta Plaza Mall

CITY OF ESCANABA DELTA COUNTY STATE OF MICHIGAN



**CITY OF ESCANABA
RECORD OF BIDS**

DATE BIDS OPENED: 8/27/2019
DESCRIPTION OF ITEM: 2019 CIPP Sewar Lining

NAME OF BIDDER	GRAND TOTAL	Certified Check/ Bid Bond
Inland Pipe Rehabilitation	\$854,342.11	10% 85,434.21
Tunnel Vision	641,658.96	64,165.89
Visu-Sewer, Inc.	662,843.81	10% 66,284.38
Insituform Tech USA LLC	743,882.51	\$74,388.25



PRESENT:



8/27/19



8/27/19

2019 SEWER LINING CIPP LINING PROJECT

BID SUMMARY

<u>BIDDER</u>	<u>AREA 1 - STORM</u>	<u>AREA 2 - SANITARY</u>	<u>AREA 3 - SANITARY</u>	<u>AREA 4 - SANITARY</u>	<u>AREA 5 - SANITARY</u>	<u>TOTAL STORM</u>	<u>TOTAL SANITARY</u>	<u>GRAND TOTAL</u>
INLAND PIPE	\$358,824.66	\$155,146.12	\$181,807.50	\$147,957.95	\$10,605.88	\$358,824.66	\$495,517.45	\$854,342.11
TUNNEL VISION	\$206,497.58	\$138,170.96	\$148,464.23	\$134,798.40	\$13,727.79	\$206,497.58	\$435,161.38	\$641,658.96
VISU-SEWER	\$231,674.83	\$138,536.79	\$148,156.13	\$133,924.01	\$10,552.05	\$231,674.83	\$431,168.98	\$662,843.81
INSITUFORM	\$285,878.35	\$154,570.72	\$152,589.37	\$139,119.43	\$11,724.64	\$285,878.35	\$458,004.16	\$743,882.51

PROPOSAL

Date 8/27/19

Proposal of UPPER PENINSULA ROBER COMPANY, INC., (hereinafter called Bidder), a corporation, organized and existing under the laws of the State of MICHIGAN, doing business as TUNNEL VISION PIPELINE SERVICES. To the City Council, City Hall, P.O. Box 948, City of Escanaba, Michigan, (hereinafter call Owner).

The Bidder, in compliance with advertisement for bids for the **2019 Sewer CIPP Lining Project**, having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposed to furnish all labor, materials, and supplies and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the price and/or prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is part.

Construction and any site cleanup must be completed on or prior to June 30, 2020. Exact dates of construction shall be coordinated with the City of Escanaba Engineer prior to start of any construction.

The City of Escanaba reserves the right to delete part of or negotiate directly with any and all bidders concerning any matter related to any bid, and also to remove any portion of the work.

The Bidder acknowledges receipt of the following addendum:

_____ Dated: _____

_____ Dated: _____

_____ Dated: _____

SCHEDULE OF PRICES

Area 1 (STORM): North 20th Street, 3rd Avenue North to 6th Avenue North

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>1250</u>	<u>1250</u>
2.	CIPP Rehabilitation				
	27 inch: M9851 to M9819	481.57	Feet	<u>106.96</u>	<u>51,510.85</u>
	30 inch: M9819 to M9803	459.61	Feet	<u>142.21</u>	<u>65,362.05</u>
	M9803 to C9794	427.62	Feet	<u>129.24</u>	<u>55,266.78</u>
	C9794 to M9772	170.84	Feet	<u>155.40</u>	<u>26,548.43</u>
3.	Pipe Cleaning/Root Cutting	1,539.64	Feet	<u>0.75</u>	<u>1,154.73</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>1154.73</u>	<u>1,154.73</u>
5.	By-Pass	1.00	LS	<u>2500</u>	<u>2,500</u>
6.	Traffic Control	1.00	LS	<u>1750</u>	<u>1,750</u>
			Sub-Total		<u>\$206,497.58</u>

PROPOSAL

Date August 26, 2019

Proposal of Inland Waters Pollution Control, Inc., (hereinafter called Bidder), a corporation, organized and existing under the laws of the State of Michigan, doing business as Inland Waters Pollution Control, Inc.. To the City Council, City Hall, P.O. Box 948, City of Escanaba, Michigan, (hereinafter call Owner).

The Bidder, in compliance with advertisement for bids for the **2019 Sewer CIPP Lining Project**, having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposed to furnish all labor, materials, and supplies and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the price and/or prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is part.

Construction and any site cleanup must be completed on or prior to June 30, 2020. Exact dates of construction shall be coordinated with the City of Escanaba Engineer prior to start of any construction.

The City of Escanaba reserves the right to delete part of or negotiate directly with any and all bidders concerning any matter related to any bid, and also to remove any portion of the work.

The Bidder acknowledges receipt of the following addendum:

_____ Dated: _____
_____ Dated: _____
_____ Dated: _____

SCHEDULE OF PRICES

Area 1 (STORM): North 20th Street, 3rd Avenue North to 6th Avenue North

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>\$6,041.00</u>	<u>\$6,041.00</u>
2.	CIPP Rehabilitation				
	27 inch: M9851 to M9819	481.57	Feet	<u>\$183.00</u>	<u>\$88,127.31</u>
	30 inch: M9819 to M9803	459.61	Feet	<u>\$229.00</u>	<u>\$105,250.69</u>
	M9803 to C9794	427.62	Feet	<u>\$229.00</u>	<u>\$97,924.98</u>
	C9794 to M9772	170.84	Feet	<u>\$229.00</u>	<u>\$39,122.36</u>
3.	Pipe Cleaning/Root Cutting	1,539.64	Feet	<u>\$13.00</u>	<u>\$20,015.32</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>\$1,743.00</u>	<u>\$1,743.00</u>
5.	By-Pass	1.00	LS	<u>\$300.00</u>	<u>\$300.00</u>
6.	Traffic Control	1.00	LS	<u>\$300.00</u>	<u>\$300.00</u>
			Sub-Total	<u>\$ 358,824.66</u>	

PROPOSAL

Date AUGUST 27, 2019

Proposal of VISU-SEWER, INC., (hereinafter called Bidder), a corporation, organized and existing under the laws of the State of WISCONSIN, doing business as A CORPORATION. To the City Council, City Hall, P.O. Box 948, City of Escanaba, Michigan, (hereinafter call Owner).

The Bidder, in compliance with advertisement for bids for the **2019 Sewer CIPP Lining Project**, having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposed to furnish all labor, materials, and supplies and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the price and/or prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is part.

Construction and any site cleanup must be completed on or prior to June 30, 2020. Exact dates of construction shall be coordinated with the City of Escanaba Engineer prior to start of any construction.

The City of Escanaba reserves the right to delete part of or negotiate directly with any and all bidders concerning any matter related to any bid, and also to remove any portion of the work.

The Bidder acknowledges receipt of the following addendum:

NONE Dated: _____
_____ Dated: _____
_____ Dated: _____

SCHEDULE OF PRICES

Area 1 (STORM): North 20th Street, 3rd Avenue North to 6th Avenue North

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>1540.00</u>	<u>1540.00</u>
2.	CIPP Rehabilitation				
	27 inch: M9851 to M9819	481.57	Feet	<u>119.00</u>	<u>57,306.83</u>
	30 inch: M9819 to M9803	459.61	Feet	<u>140.00</u>	<u>64,345.40</u>
	M9803 to C9794	427.62	Feet	<u>140.00</u>	<u>59,866.80</u>
	C9794 to M9772	170.84	Feet	<u>140.00</u>	<u>23,917.60</u>
3.	Pipe Cleaning/Root Cutting	1,539.64	Feet	<u>5.00</u>	<u>7,698.20</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	By-Pass	1.00	LS	<u>15,000.00</u>	<u>15,000.00</u>
6.	Traffic Control	1.00	LS	<u>1,500.00</u>	<u>1,500.00</u>
Sub-Total				<u>\$ 231,674.83</u>	

PROPOSAL

Date August 27, 2019

Proposal of Insituform Technologies USA, LLC, (hereinafter called Bidder), a corporation, organized and existing under the laws of the State of Delaware, doing business as Insituform Technologies USA, LLC. To the City Council, City Hall, P.O. Box 948, City of Escanaba, Michigan, (hereinafter call Owner).

The Bidder, in compliance with advertisement for bids for the **2019 Sewer CIPP Lining Project**, having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposed to furnish all labor, materials, and supplies and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the price and/or prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is part.

Construction and any site cleanup must be completed on or prior to June 30, 2020. Exact dates of construction shall be coordinated with the City of Escanaba Engineer prior to start of any construction.

The City of Escanaba reserves the right to delete part of or negotiate directly with any and all bidders concerning any matter related to any bid, and also to remove any portion of the work.

The Bidder acknowledges receipt of the following addendum:

<u>none</u>	Dated: <u>n/a</u>
↓	Dated: ↓
	Dated: ↓

SCHEDULE OF PRICES

Area 1 (STORM): North 20th Street, 3rd Avenue North to 6th Avenue North

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>42,000.00</u>	<u>42,000.00</u>
2.	CIPP Rehabilitation				
	27 inch: M9851 to M9819	481.57	Feet	<u>125.00</u>	<u>60,196.25</u>
	30 inch: M9819 to M9803	459.61	Feet	<u>148.00</u>	<u>68,022.28</u>
	M9803 to C9794	427.62	Feet	<u>149.00</u>	<u>63,715.38</u>
	C9794 to M9772	170.84	Feet	<u>192.00</u>	<u>32,801.28</u>
3.	Pipe Cleaning/Root Cutting	1,539.64	Feet	<u>7.90</u>	<u>12,163.16</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	By-Pass	1.00	LS	<u>2,280.00</u>	<u>2,280.00</u>
6.	Traffic Control	1.00	LS	<u>4,200.00</u>	<u>4,200.00</u>
			Sub-Total		<u>\$ 285,878.35</u>

Agenda Item: NB-6
Date: 9-5-19

City Council Agenda Item Request

Date: 8-29-19

Name: Jeff Lampi

Department: Wastewater Department

Item: CIPP Lining of Sanitary Sewer Main

Meeting date requested: 9-5-19

Explanation for request:

Please considerer this as a request for authorization from Council to hire Tunnel Vision, of Escanaba MI, to preform the Saniatary Sewer work in areas 2,3,4, & 5 as outlined in the attached proposal in a sum not to exceed \$435,160.65.

Money is available and allotted for this type of work within the current budget.

City of Escanaba
2019 CIPP Project Bid Summary
Date: Aug 29, 2019

			S 22nd Street (3rd Ave S to 1st Ave N, plus Hwy Crossings)	2nd Ave S (S 4th to S 16th St)	S 22nd Sreet (23rd Ave S to LSD)	Delta Plaza Mall	
Bidder	Company	Area 1 Sub-Total	Area 2 Sub-Total	Area 3 Sub-Total	Area 4 Sub-Total	Area 5 Sub-Total	Sanitary Total
		Storm	Sanitary	Sanitary	Sanitary	Sanitary	
1	Inland Pipe		\$ 155,146.12	\$ 181,807.50	\$ 147,957.95	\$ 10,605.88	\$ 495,517.45
2	Tunnel Vision		\$ 138,170.23	\$ 148,464.23	\$ 134,798.40	\$ 13,727.79	\$ 435,160.65
3	Visu-Sewer		\$ 138,536.79	\$ 148,156.13	\$ 133,924.01	\$ 10,552.05	\$ 431,168.98 *
4	Insituform		\$ 154,570.72	\$ 152,589.37	\$ 139,119.43	\$ 11,724.64	\$ 458,004.16
5							
6	CIPP Work Budgeted For 19-20		\$ 137,200.00	\$ 186,500.00	\$ 203,250.00	Not Planned during Budget	\$ 526,950.00
7	Differnce in Bid -v- Budget		\$ 970.23	\$ (38,035.77)	\$ (68,451.60)	\$ 13,727.79	\$ (91,789.35)
8			over	under	under	Mall will pay \$5,000	under
9							
10							

* Apparent Low Bidder

**CITY OF ESCANABA
RECORD OF BIDS**

DATE BIDS OPENED: 8/27/2019
DESCRIPTION OF ITEM: 2019 CIPP Sewar Lining

NAME OF BIDDER	GRAND TOTAL	Certified Check/ Bid Bond
Inland Pipe Rehabilitation	\$854,342.11	10% 85,434.21
Tunnel Vision	641,658.96	64,165.89
Visu-Sewer, Inc.	662,843.81	10% 66,284.38
Insituform Tech USA, LLC	743,882.51	\$74,388.25



PRESENT: 

8/27/19



8/27/19

2019 CIPP Bid

Inland Pipe

PROPOSAL

Date August 26, 2019

Proposal of Inland Waters Pollution Control, Inc., (hereinafter called Bidder), a corporation, organized and existing under the laws of the State of Michigan, doing business as Inland Waters Pollution Control, Inc.. To the City Council, City Hall, P.O. Box 948, City of Escanaba, Michigan, (hereinafter call Owner).

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The Bidder acknowledges receipt of the following addendum:

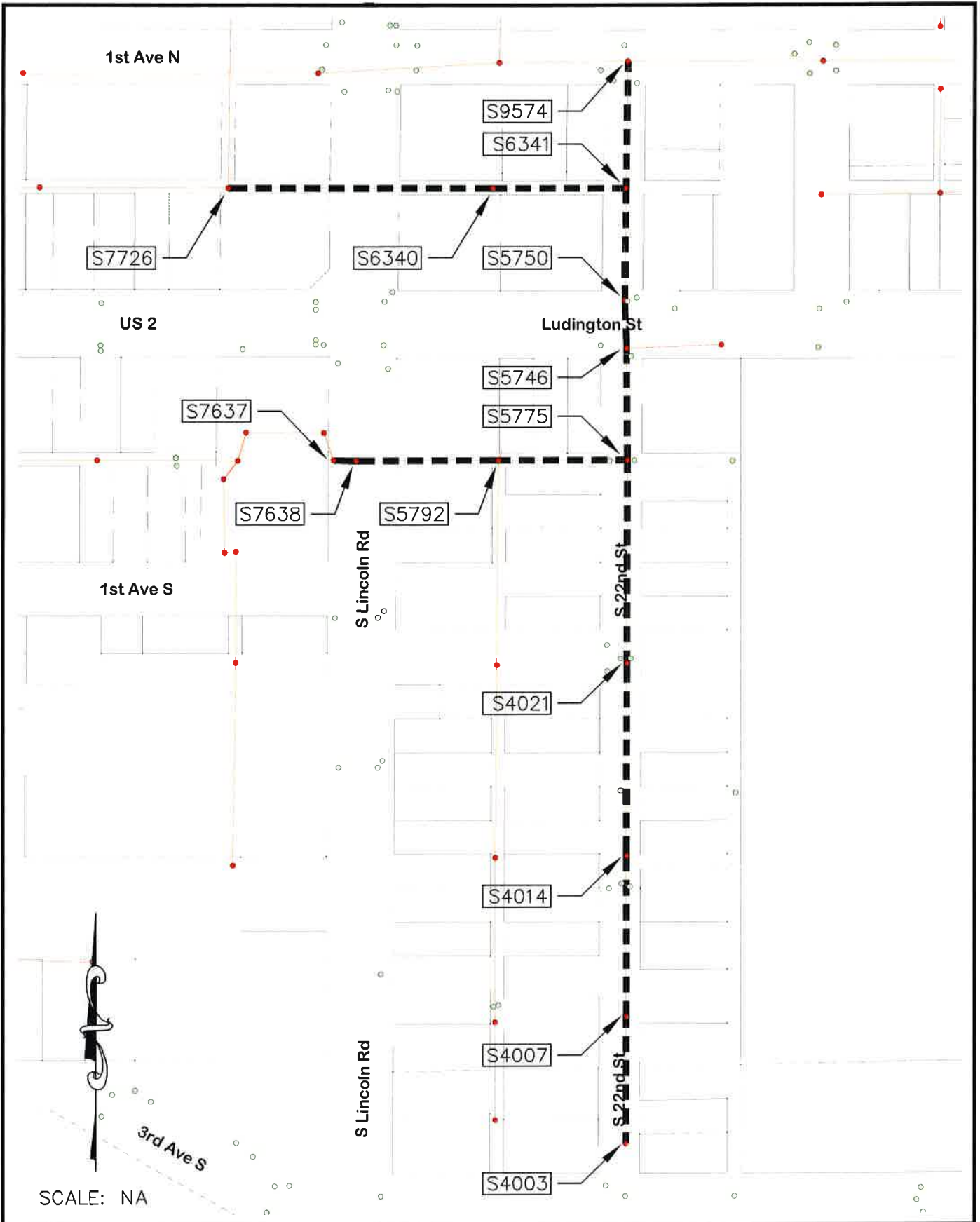
_____ Dated: _____
_____ Dated: _____
_____ Dated: _____

SCHEDULE OF PRICES

Area 1 (STORM): North 20th Street, 3rd Avenue North to 6th Avenue North

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>\$6041.00</u>	<u>\$6,041.00</u>
2.	CIPP Rehabilitation				
	27 inch: M9851 to M9819	481.57	Feet	<u>\$183.00</u>	<u>\$88,127.31</u>
	30 inch: M9819 to M9803	459.61	Feet	<u>\$229.00</u>	<u>\$105,250.69</u>
	M9803 to C9794	427.62	Feet	<u>\$229.00</u>	<u>\$97,924.98</u>
	C9794 to M9772	170.84	Feet	<u>\$229.00</u>	<u>\$39,122.36</u>
3.	Pipe Cleaning/Root Cutting	1,539.64	Feet	<u>\$13.00</u>	<u>\$20,015.32</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>\$1,743.00</u>	<u>\$1,743.00</u>
5.	By-Pass	1.00	LS	<u>\$300.00</u>	<u>\$300.00</u>
6.	Traffic Control	1.00	LS	<u>\$300.00</u>	<u>\$300.00</u>
Sub-Total				<u>\$</u>	<u>358,824.66</u>

L:\Engineering\Documents\CDP Projects\2019\CIPPProj2019.dwg 8-13-19 01:30:48 PM TFlower



2019 CIPP Lining Project
Area 2 (Sanitary Sewer)

CITY OF ESCANABA

410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE:	08/08/2019
SCALE:	na
DRWG. NO.:	3 of 6

Area 2 (SANITARY): 22nd Street

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>\$8,342.00</u>	<u>\$8,342.00</u>
2.	CIPP Rehabilitation				
	<u>22nd Street, 1st Avenue North to 3rd Avenue South</u>				
	18 inch: S9574 to S6341	185.23	Feet	<u>\$60.00</u>	<u>\$11,113.80</u>
	S6341 to S5750	163.81	Feet	<u>\$60.00</u>	<u>\$9,828.60</u>
	15 inch: S5750 to S5746	71.06	Feet	<u>\$52.00</u>	<u>\$3,695.12</u>
	S5746 to S5775	164.14	Feet	<u>\$52.00</u>	<u>\$8,535.28</u>
	S5775 to S4021	298.82	Feet	<u>\$52.00</u>	<u>\$15,538.64</u>
	12 inch: S4021 to S4014	284.21	Feet	<u>\$38.00</u>	<u>\$10,799.98</u>
	S4014 to S4007	237.08	Feet	<u>\$38.00</u>	<u>\$9,009.04</u>
	8 inch: S4007 to S4003	188.14	Feet	<u>\$33.00</u>	<u>\$6,208.62</u>
	<u>Alley behind 2415 1st Avenue North (Donut Connection) east to North 22nd Street Main</u>				
	12 inch: S7726 to S6340	388.88	Feet	<u>\$38.00</u>	<u>\$14,777.44</u>
	S6340 to S6341	196.00	Feet	<u>\$38.00</u>	<u>\$7,448.00</u>
	<u>2301 Ludington Street (Walgreens) Parking Lot east to South 22nd Street Main</u>				
	12 inch: S7637 to S7638	32.92	Feet	<u>\$38.00</u>	<u>\$1,250.96</u>
	S7638 to S5792	209.52	Feet	<u>\$38.00</u>	<u>\$7,961.76</u>
	15 inch: S5792 to S5775	189.84	Feet	<u>\$52.00</u>	<u>\$9,871.68</u>
3.	Pipe Cleaning/Root Cutting	2,609.65	Feet	<u>\$8.00</u>	<u>\$20,877.20</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>\$3,128.00</u>	<u>\$3,128.00</u>
5.	Sewer Lateral Reinstatements	20.00	Ea	<u>\$61.00</u>	<u>\$1,220.00</u>
6.	Bypass	1.00	LS	<u>\$2,158.00</u>	<u>\$2,158.00</u>
7.	Traffic Control	1.0	LS	<u>\$3,382.00</u>	<u>\$3,382.00</u>
			Sub-Total	<u>\$</u>	<u>155,146.12</u>



SCALE: NA

2019 CIPP Lining Project Area 3 (Sanitary Sewer)

CITY OF ESCANABA

410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE: 08/08/2019
SCALE: na
DRWG. NO.: 4 of 6

Area 3 (SANITARY): 2nd Avenue South, South 16th Street to South 4th Street

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>\$599.00</u>	<u>\$599.00</u>
2.	CIPP Rehabilitation				
	8 inch: S4565 to S4573	369.23	Feet	<u>\$30.00</u>	<u>\$11,076.90</u>
	S4573 to S4633	379.25	Feet	<u>\$30.00</u>	<u>\$11,377.50</u>
	10 inch: S4633 to S4651	378.34	Feet	<u>\$34.00</u>	<u>\$12,863.56</u>
	S4651 to S4818	381.17	Feet	<u>\$34.00</u>	<u>\$12,959.78</u>
	S4818 to S4831	378.10	Feet	<u>\$34.00</u>	<u>\$12,855.40</u>
	S4831 to S4845	381.22	Feet	<u>\$34.00</u>	<u>\$12,961.48</u>
	S4845 to S4865	378.43	Feet	<u>\$34.00</u>	<u>\$12,866.62</u>
	S4865 to S4765	380.64	Feet	<u>\$34.00</u>	<u>\$12,941.76</u>
	S4765 to S4756	378.91	Feet	<u>\$34.00</u>	<u>\$12,882.94</u>
	S4756 to S4743	379.02	Feet	<u>\$34.00</u>	<u>\$12,886.68</u>
	S4743 to S4735	199.59	Feet	<u>\$34.00</u>	<u>\$6,786.06</u>
	8 inch: S4735 to S4727	196.99	Feet	<u>\$30.00</u>	<u>\$5,909.70</u>
3.	Pipe Cleaning/Root Cutting	4,180.89	Feet	<u>\$8.00</u>	<u>\$33,447.12</u>
4.	Pre- and Post-Installation Inspection	1.00	LS	<u>\$5,011.00</u>	<u>\$5,011.00</u>
5.	Sewer Lateral Reinstatements	62.00	Ea	<u>\$61.00</u>	<u>\$3,782.00</u>
6.	Bypass	1.00	LS	<u>\$300.00</u>	<u>\$300.00</u>
7.	Traffic Control	1.00	LS	<u>\$300.00</u>	<u>\$300.00</u>
Sub-Total				<u>\$</u>	<u>181,807.50</u>

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SL

23rd Ave S

S0816
S0809

24TH AVE SO

S0799

S Lincoln Rd

SO 22ND ST

S0752

S0754

S0767

25th Ave S

S11628

S3530

S0781

S1113

S3529

26th Ave S

S1114

Lake Shore Dr

S0784



S0853

Lake Shore Dr

S0580

S0746

Lake Shore Dr

SCALE: NA

2019 CIPP Lining Project Area 4 (Sanitary Sewer)

DATE:
08/08/2019

SCALE:
na

CITY OF ESCANABA

410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402

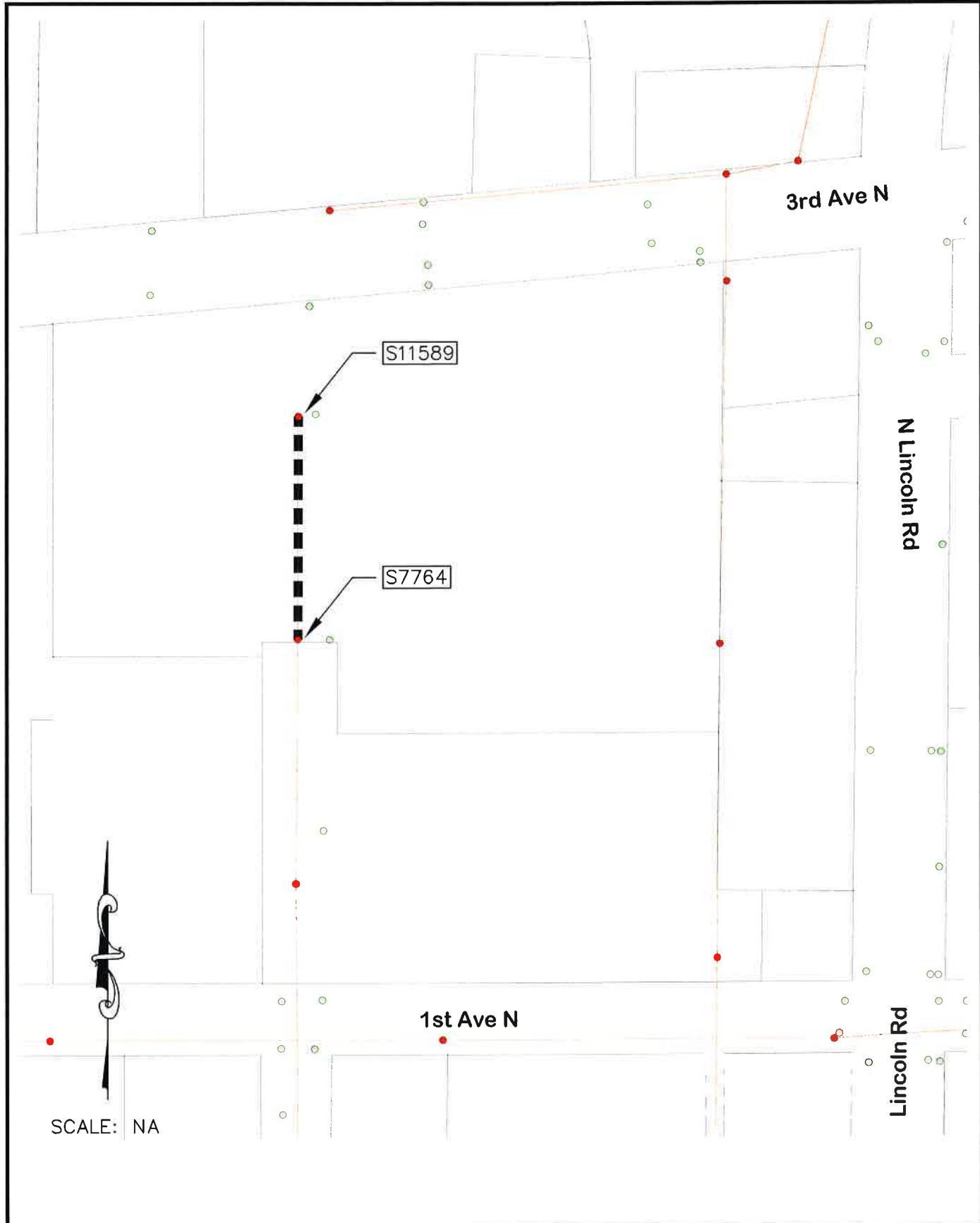


DRWG. NO.:
5 of 6

Area 4 (SANITARY): South 22nd Street, 23rd Avenue South to Lakeshore Drive

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>\$599.00</u>	<u>\$599.00</u>
2.	CIPP, Lining				
	<u>South 22nd Street, 23rd Avenue South to Lakeshore Drive</u>				
	12 inch: S0816 to S0809	183.52	Feet	<u>\$41.00</u>	<u>\$7,524.32</u>
	S0809 to S0799	358.62	Feet	<u>\$41.00</u>	<u>\$14,703.42</u>
	S0799 to S0752	234.09	Feet	<u>\$41.00</u>	<u>\$9,597.69</u>
	S0752 to S0754	128.05	Feet	<u>\$41.00</u>	<u>\$5,250.05</u>
	S0754 to S0781	182.24	Feet	<u>\$41.00</u>	<u>\$7,471.84</u>
	S0781 to S0784	207.86	Feet	<u>\$41.00</u>	<u>\$8,522.26</u>
	S0784 to S0580	204.13	Feet	<u>\$41.00</u>	<u>\$8,369.33</u>
	<u>Alley between 25th and 26th Ave. South; South Lincoln Road to South 22nd Street</u>				
	8 inch: S3529 to S3530	209.55	Feet	<u>\$28.00</u>	<u>\$5,867.40</u>
	S3530 to S0781	206.23	Feet	<u>\$28.00</u>	<u>\$5,774.44</u>
	<u>Alley between 26th Ave. South and Lakeshore Dr.; South 22nd Street to South Lincoln Road</u>				
	8 inch: S0746 to S0853	239.42	Feet	<u>\$28.00</u>	<u>\$6,703.76</u>
	S0853 to S0784	240.79	Feet	<u>\$28.00</u>	<u>\$6,742.12</u>
	<u>Alley between 25th Ave. South and Lakeshore Dr.; South 22nd Street to 25th Avenue South</u>				
	8 inch: S0784 to S1114	216.07	Feet	<u>\$28.00</u>	<u>\$6,049.96</u>
	S1114 to S11628	205.42	Feet	<u>\$28.00</u>	<u>\$5,751.76</u>
	S1114 to S1113	260.52	Feet	<u>\$28.00</u>	<u>\$7,294.56</u>
	S1113 to S0767	254.86	Feet	<u>\$28.00</u>	<u>\$7,136.08</u>
3.	CIPP, Cleaning/Root Cutting, Pipe	3,331.37	Feet	<u>\$8.00</u>	<u>\$26,650.96</u>
4.	Pre- and Post-Installation Inspection	1.00	LS	<u>\$3,994.00</u>	<u>\$3,994.00</u>
5.	Sewer Lateral Reinstatements	55.00	Ea	<u>\$61.00</u>	<u>\$3,355.00</u>
6.	Bypass	1.00	LS	<u>\$300.00</u>	<u>\$300.00</u>
7.	Traffic Control	1.00	LS	<u>\$300.00</u>	<u>\$300.00</u>
			Sub-Total	<u>\$</u>	<u>147,957.95</u>

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SCALE: NA

2019 CIPP Lining Project
 Area 5 (Sanitary Sewer)

CITY OF ESCANABA
 410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE: 08/08/2019
SCALE: na
DRWG. NO.: 6 of 6

Area 5 (SANITARY): Delta Plaza Mall

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	\$599.00	\$599.00
2.	CIPP Rehabilitation				
	8 inch: S11589 to S7764	246.24	Feet	\$29.00	\$7,140.96
3.	Pipe Cleaning/Root Cutting	246.24	Feet	\$8.00	\$1,969.92
4.	Pre- and Post- Installation Inspection	1.00	LS	\$296.00	\$296.00
5.	By-Pass	1.00	LS	\$300.00	\$300.00
6.	Traffic Control	1.00	LS	\$300.00	\$300.00

Sub-Total \$ 10,605.88

GRAND TOTAL \$ 854,342.11

The above unit sum price shall include labor, materials, overhead, profit, insurance, etc. to complete the project under this Contract.

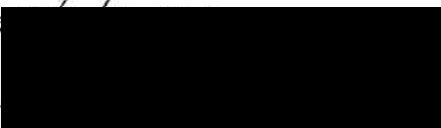
The Bidder understands that the OWNER reserves the right to reject any or all bids and to waive any informalities in the bids, and also to remove any portion of the work.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of thirty (30) calendar days after the scheduled closing time for receiving bids.

Upon written notice of acceptance of this bid, the Bidder will execute the formal contract attached within ten (10) days after said notice and deliver a surety bond and/or bonds as required. The bid security attached in the sum of: Eighty-five thousand four hundred thirty-four dollars and (\$ 85,434.21) is to become the property of the OWNER in the event the contract and twenty-one bond and/or bonds are not executed and delivered within the time above set forth, as liquidated cents damages for the delay and additional expense to the OWNER caused thereby.

Respectfully,

By, _____



(Title)

4086 Michigan Avenue, Detroit, MI 48210
(Business Address Seal- if bid is by a corporation)

2019 CIPP Bid

Tunnel Vision

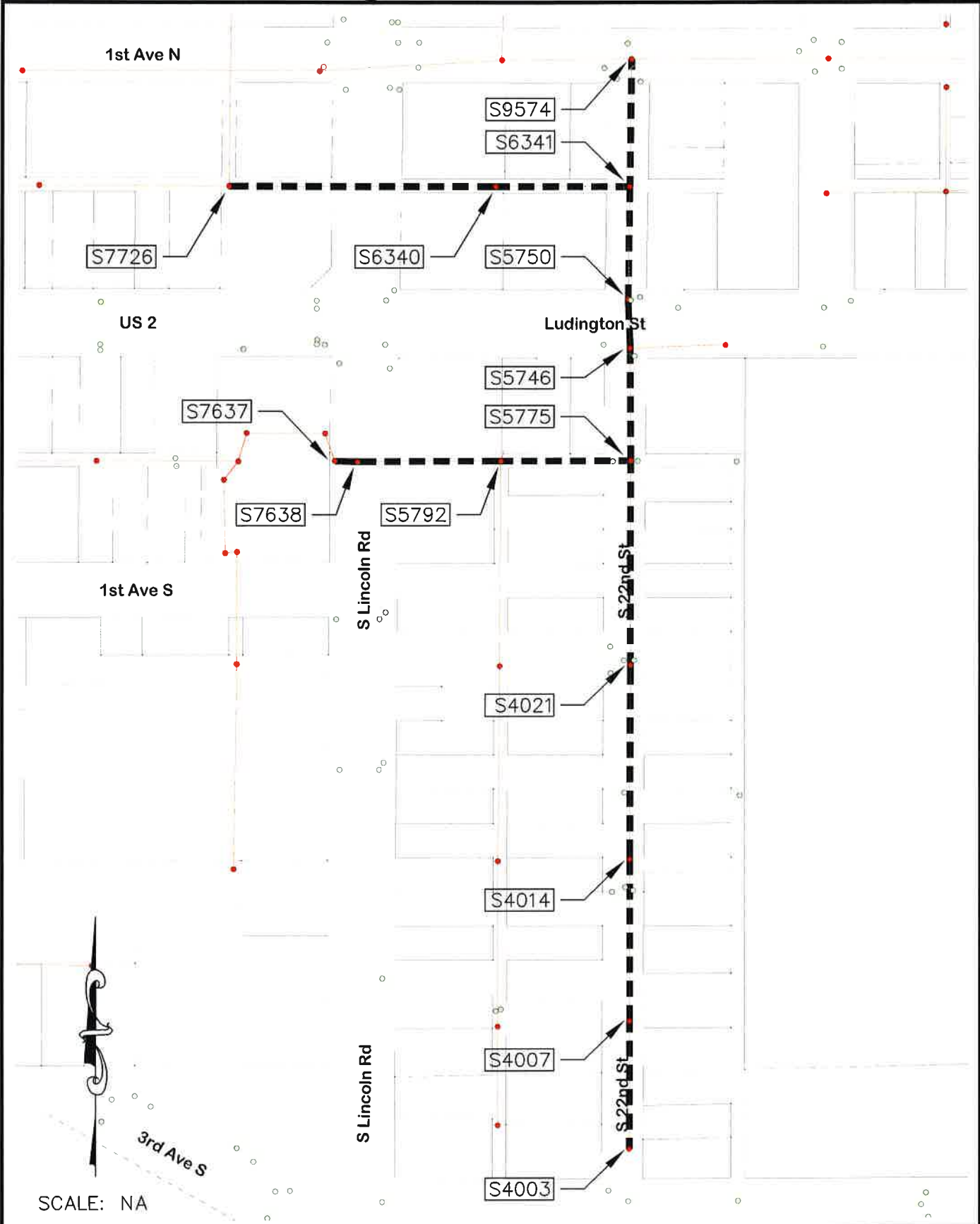
SCHEDULE OF PRICES

Area 1 (STORM): North 20th Street, 3rd Avenue North to 6th Avenue North

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>1250</u>	<u>1250</u>
2.	CIPP Rehabilitation				
	27 inch: M9851 to M9819	481.57	Feet	<u>106.96</u>	<u>51,510.85</u>
	30 inch: M9819 to M9803	459.61	Feet	<u>142.21</u>	<u>65,362.05</u>
	M9803 to C9794	427.62	Feet	<u>129.24</u>	<u>55,266.78</u>
	C9794 to M9772	170.84	Feet	<u>155.40</u>	<u>26,548.43</u>
3.	Pipe Cleaning/Root Cutting	1,539.64	Feet	<u>0.75</u>	<u>1,154.73</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>1154.73</u>	<u>1,154.73</u>
5.	By-Pass	1.00	LS	<u>2500</u>	<u>2,500</u>
6.	Traffic Control	1.00	LS	<u>1750</u>	<u>1,750</u>
			Sub-Total	\$ <u>206,497.58</u>	

Tunnel Vision

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2019 CIPP Lining Project
Area 2 (Sanitary Sewer)

CITY OF ESCANABA

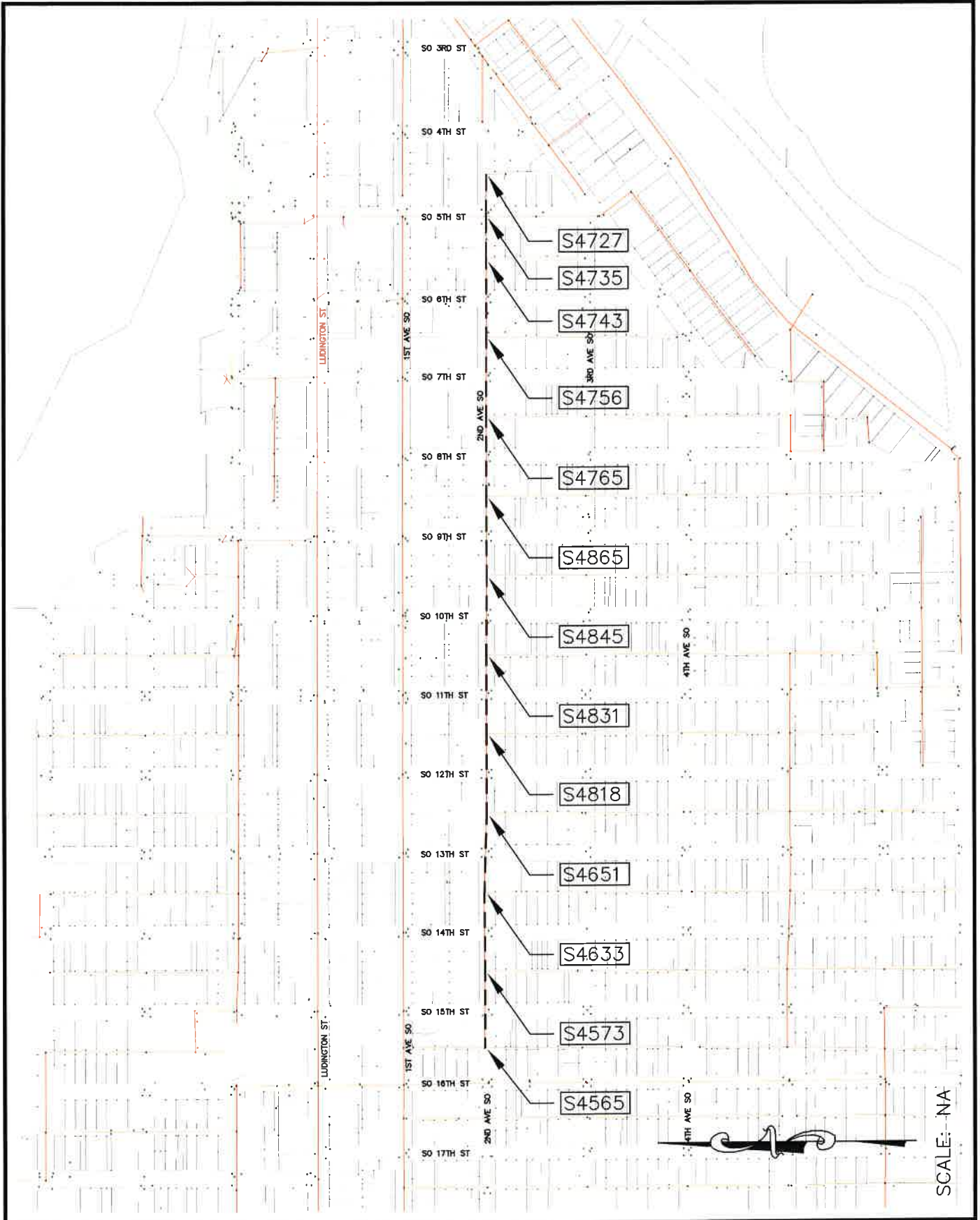
410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE: 08/08/2019
SCALE: na
DRWG. NO.: 3 of 6

Area 2 (SANITARY): 22nd Street

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>1250</u>	<u>1250</u>
2.	CIPP Rehabilitation				
	<u>22nd Street, 1st Avenue North to 3rd Avenue South</u>				
	18 inch: S9574 to S6341	185.23	Feet	<u>71.00</u>	<u>13,150.81</u>
	S6341 to S5750	163.81	Feet	<u>73.60</u>	<u>12,056.25</u>
	15 inch: S5750 to S5746	71.06	Feet	<u>84.06</u>	<u>5,973.05</u>
	S5746 to S5775	164.14	Feet	<u>55.69</u>	<u>9,141.26</u>
	S5775 to S4021	298.82	Feet	<u>45.93</u>	<u>13,725.43</u>
	12 inch: S4021 to S4014	284.21	Feet	<u>35.06</u>	<u>9,965.74</u>
	S4014 to S4007	237.08	Feet	<u>37.49</u>	<u>8,887.64</u>
	8 inch: S4007 to S4003	188.14	Feet	<u>33.05</u>	<u>6,218.15</u>
	<u>Alley behind 2415 1st Avenue North (Donut Connection) east to North 22nd Street Main</u>				
	12 inch: S7726 to S6340	388.88	Feet	<u>31.78</u>	<u>12,360.07</u>
	S6340 to S6341	196.00	Feet	<u>40.55</u>	<u>7,947.94</u>
	<u>2301 Ludington Street (Walgreens) Parking Lot east to South 22nd Street Main</u>				
	12 inch: S7637 to S7638	32.92	Feet	<u>128.11</u>	<u>4,217.48</u>
	S7638 to S5792	209.52	Feet	<u>39.41</u>	<u>8,257.21</u>
	15 inch: S5792 to S5775	189.84	Feet	<u>52.76</u>	<u>10,016.03</u>
3.	Pipe Cleaning/Root Cutting	2,609.65	Feet	<u>0.75</u>	<u>1,957.24</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>1957.24</u>	<u>1,957.24</u>
5.	Sewer Lateral Reinstatements	20.00	Ea	<u>291.97</u>	<u>5,839.42</u>
6.	Bypass	1.00	LS	<u>2500</u>	<u>2,500</u>
7.	Traffic Control	1.0	LS	<u>2750</u>	<u>2,750</u>
			Sub-Total	<u>\$ 138,170.96</u>	



2019 CIPP Lining Project Area 3 (Sanitary Sewer)

CITY OF ESCANABA

410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE:
08/08/2019

SCALE:

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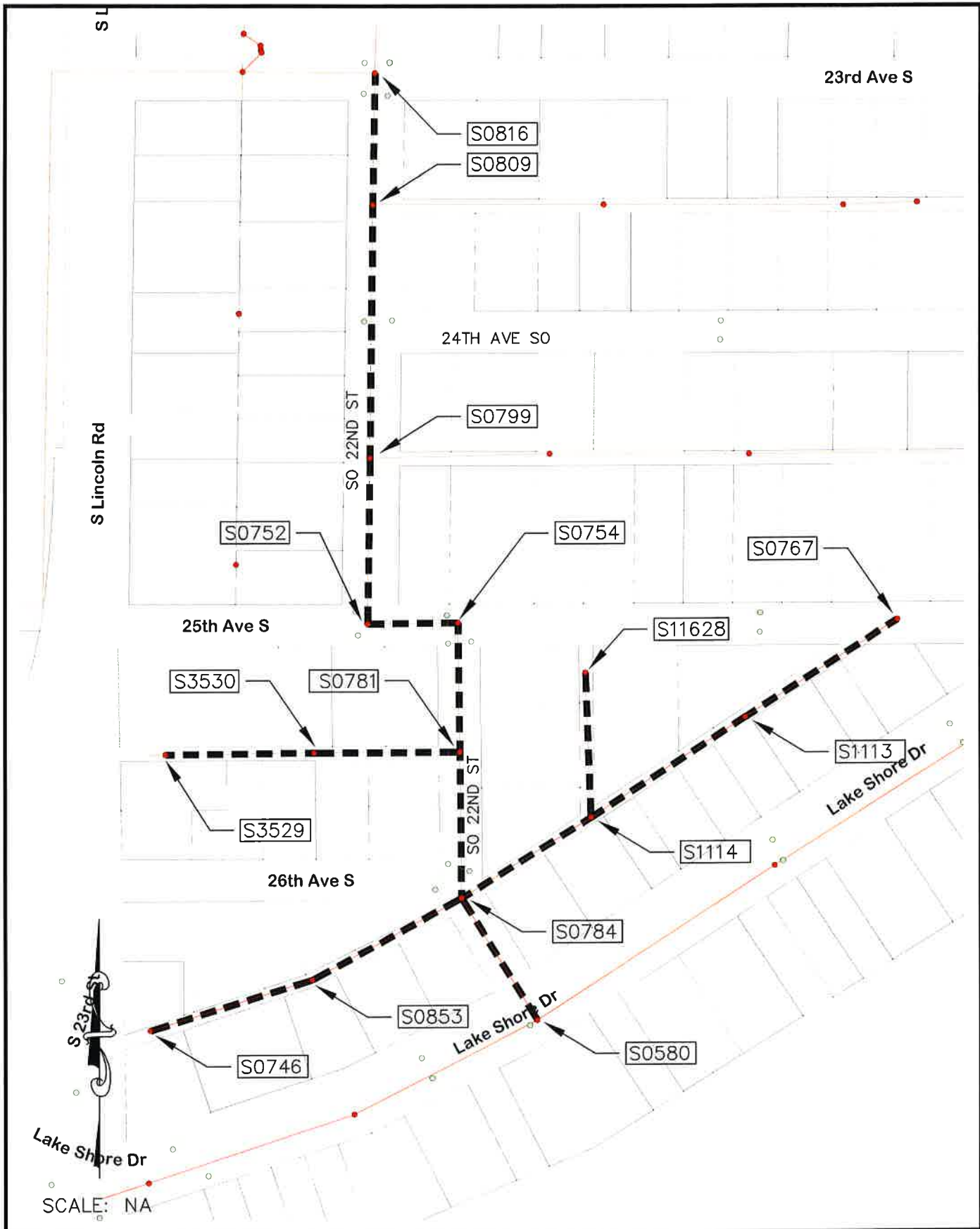
DRWG. NO.:
4 of 6

SCALE: NA

Area 3 (SANITARY): 2nd Avenue South, South 16th Street to South 4th Street

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>1250</u>	<u>1250</u>
2.	CIPP Rehabilitation				
	8 inch: S4565 to S4573	369.23	Feet	<u>24.62</u>	<u>9,091.01</u>
	S4573 to S4633	379.25	Feet	<u>24.37</u>	<u>9,241.44</u>
	10 inch: S4633 to S4651	378.34	Feet	<u>28.29</u>	<u>10,704.73</u>
	S4651 to S4818	381.17	Feet	<u>28.22</u>	<u>10,758.01</u>
	S4818 to S4831	378.10	Feet	<u>28.30</u>	<u>10,700.22</u>
	S4831 to S4845	381.22	Feet	<u>28.22</u>	<u>10,758.95</u>
	S4845 to S4865	378.43	Feet	<u>28.29</u>	<u>10,706.43</u>
	S4865 to S4765	380.64	Feet	<u>28.24</u>	<u>10,748.03</u>
	S4765 to S4756	378.91	Feet	<u>28.28</u>	<u>10,715.46</u>
	S4756 to S4743	379.02	Feet	<u>28.28</u>	<u>10,717.53</u>
	S4743 to S4735	199.59	Feet	<u>36.77</u>	<u>7,339.77</u>
	8 inch: S4735 to S4727	196.99	Feet	<u>41.17</u>	<u>8,109.13</u>
3.	Pipe Cleaning/Root Cutting	4,180.89	Feet	<u>0.75</u>	<u>3,135.67</u>
4.	Pre- and Post-Installation Inspection	1.00	LS	<u>3,135.67</u>	<u>3,135.67</u>
5.	Sewer Lateral Reinstatements	62.00	Ea	<u>291.97</u>	<u>18,102.19</u>
6.	Bypass	1.00	LS	<u>1500</u>	<u>1,500</u>
7.	Traffic Control	1.00	LS	<u>1750</u>	<u>1,750</u>
			Sub-Total	\$ <u>148,464.23</u>	

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2019 CIPP Lining Project
Area 4 (Sanitary Sewer)

CITY OF ESCANABA

410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE:
08/08/2019

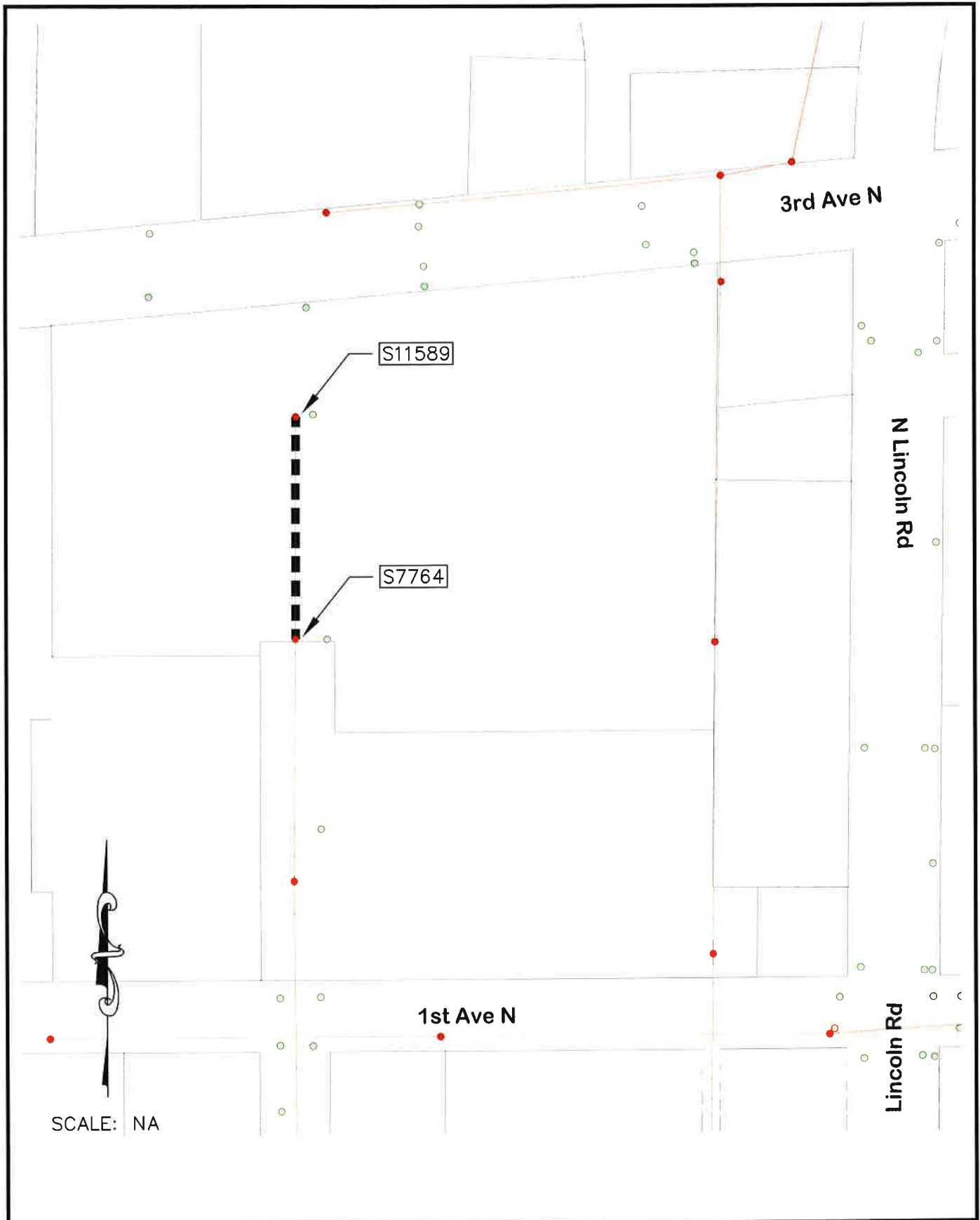
SCALE:
na

DRWG. NO.:
5 of 6

Area 4 (SANITARY): South 22nd Street, 23rd Avenue South to Lakeshore Drive

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>1250</u>	<u>1250</u>
2.	CIPP, Lining				
<u>South 22nd Street, 23rd Avenue South to Lakeshore Drive</u>					
	12 inch: S0816 to S0809	183.52	Feet	<u>40.41</u>	<u>7415.66</u>
	S0809 to S0799	358.62	Feet	<u>31.85</u>	<u>11,421.07</u>
	S0799 to S0752	234.09	Feet	<u>36.62</u>	<u>8,572.45</u>
	S0752 to S0754	128.05	Feet	<u>48.00</u>	<u>6,146.79</u>
	S0754 to S0781	182.24	Feet	<u>40.53</u>	<u>7,386.38</u>
	S0781 to S0784	207.86	Feet	<u>38.35</u>	<u>7,972.44</u>
	S0784 to S0580	204.13	Feet	<u>38.64</u>	<u>7,887.12</u>
<u>Alley between 25th and 26th Ave. South: South Lincoln Road to South 22nd Street</u>					
	8 inch: S3529 to S3530	209.55	Feet	<u>30.03</u>	<u>6,292.77</u>
	S3530 to S0781	206.23	Feet	<u>30.27</u>	<u>6,242.93</u>
<u>Alley between 26th Ave. South and Lakeshore Dr.: South 22nd Street to South Lincoln Road</u>					
	8 inch: S0746 to S0853	239.42	Feet	<u>28.16</u>	<u>6,741.20</u>
	S0853 to S0784	240.79	Feet	<u>28.08</u>	<u>6,761.76</u>
<u>Alley between 25th Ave. South and Lakeshore Dr.: South 22nd Street to 25th Avenue South</u>					
	8 inch: S0784 to S1114	216.07	Feet	<u>29.58</u>	<u>6,390.66</u>
	S1114 to S11628	205.42	Feet	<u>30.33</u>	<u>6,230.77</u>
	S1114 to S1113	260.52	Feet	<u>27.09</u>	<u>7,057.96</u>
	S1113 to S0767	254.86	Feet	<u>27.36</u>	<u>6,972.99</u>
3.	CIPP, Cleaning/Root Cutting, Pipe	3,331.37	Feet	<u>0.75</u>	<u>2,498.53</u>
4.	Pre- and Post-Installation Inspection	1.00	LS	<u>2498.53</u>	<u>2,498.53</u>
5.	Sewer Lateral Reinstatements	55.00	Ea	<u>291.97</u>	<u>16,058.39</u>
6.	Bypass	1.00	LS	<u>1500</u>	<u>1500</u>
7.	Traffic Control	1.00	LS	<u>1500</u>	<u>1500</u>
				Sub-Total	<u>\$ 134,798.40</u>

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2019 CIPP Lining Project
Area 5 (Sanitary Sewer)

CITY OF ESCANABA
410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE: 08/08/2019
SCALE: na
DRWG. NO.: 6 of 6

Area 5 (SANITARY): Delta Plaza Mall

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>1250</u>	<u>1250</u>
2.	CIPP Rehabilitation 8 inch: S11589 to S7764	246.24	Feet	<u>44.64</u>	<u>10,993.11</u>
3.	Pipe Cleaning/Root Cutting	246.24	Feet	<u>0.75</u>	<u>184.68</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>300</u>	<u>300</u>
5.	By-Pass	1.00	LS	<u>500</u>	<u>500</u>
6.	Traffic Control	1.00	LS	<u>500</u>	<u>500</u>
Sub-Total				\$	<u>13727.79</u>



GRAND TOTAL \$ 641,658.96

The above unit sum price shall include labor, materials, overhead, profit, insurance, etc. to complete the project under this Contract.

The Bidder understands that the OWNER reserves the right to reject any or all bids and to waive any informalities in the bids, and also to remove any portion of the work.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of thirty (30) calendar days after the scheduled closing time for receiving bids.

Upon written notice of acceptance of this bid, the Bidder will execute the formal contract attached within ten (10) days after said notice and deliver a surety bond and/or bonds as required. The bid security attached in the sum of: SIXTY-FOUR THOUSAND ONE HUNDRED SIXTY FIVE THOUSAND AND (\$ 64,165.89) is to become the property of the OWNER in the event the contract and bond and/or bonds are not executed and delivered within the time above set forth, as liquidated 89/100 damages for the delay and additional expense to the OWNER caused thereby.

Respectfully submit 
By, 
(Name)

PRESIDENT
(Title)

(Business Address Seal- if bid is by a corporation)

THE CINCINNATI INSURANCE COMPANY

Bid Bond

CONTRACTOR (Name, legal status and address):

U.P. Rubber Company, Inc. DBA Tunnel Vision
PO Box 541
Escanaba, MI. 49829

OWNER (Name, legal status and address):

City of Escanaba
410 Ludington St.
Escanaba, MI. 49829

BOND AMOUNT:

Ten percent (10%) of bid submitted

SURETY (Name, legal status and principal place of business):

THE CINCINNATI INSURANCE COMPANY
6200 S. GILMORE ROAD
FAIRFIELD, OHIO 45014-5141

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

PROJECT (Name, location or address, and Project number, if any):

2019 CIPP Sewer Lining Projects

Project Number, if any:

Bid date 8/27/2019

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond the sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirements shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed _____ at _____ 27th _____ day of August 2019

(Witness)

(Principal)

PRESIDENT

(Seal)

(Title)

THE CINCINNATI INSURANCE COMPANY

(Seal)

(Title)

Bruce B. Movalson - Power of Attorney



THE CINCINNATI INSURANCE COMPANY

Fairfield, Ohio

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE CINCINNATI INSURANCE COMPANY, a corporation organized under the laws of the State of Ohio, and having its principal office in the City of Fairfield, Ohio, does hereby constitute and appoint

Bruce B. Moyalson; Paul J. Fix; Rhonda Rousseau and/or Paula Sebeck

of Escanaba, Michigan

its true and lawful Attorney(s)-in-Fact to sign, execute, seal

and deliver on its behalf as Surety, and as its act and deed, any and all bonds, policies, undertakings, or other like instruments, as follows:

Any such obligations in the United States, up to Five Million and No/100 Dollars (\$5,000,000.00).

This appointment is made under and by authority of the following resolution passed by the Board of Directors of said Company at a meeting held in the principal office of the Company, a quorum being present and voting, on the 6th day of December, 1958, which resolution is still in effect:

"RESOLVED, that the President or any Vice President be hereby authorized, and empowered to appoint Attorneys-in-Fact of the Company to execute any and all bonds, policies, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such Attorney-in-Fact to affix the corporate seal; and may with or without cause modify or revoke any such appointment or authority. Any such writings so executed by such Attorneys-in-Fact shall be binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company."

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 7th day of December, 1973.

"RESOLVED, that the signature of the President or a Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary or Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power of certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company."

IN WITNESS WHEREOF, THE CINCINNATI INSURANCE COMPANY has caused these presents to be sealed with its corporate seal, duly attested by its Vice President this 1st day of October, 2015.



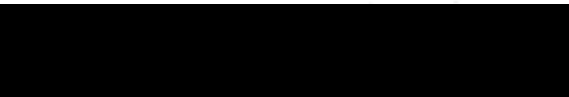
THE CINCINNATI INSURANCE COMPANY



Vice President

STATE OF OHIO) ss:
COUNTY OF BUTLER)

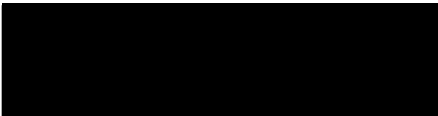
On this 1st day of October, 2015, before me came the above-named Vice President of THE CINCINNATI INSURANCE COMPANY, to me personally known to be the officer described herein, and acknowledged that the seal affixed to the preceding instrument is the corporate seal of said Company and the corporate seal and the signature of the officer were duly affixed and subscribed to said instrument by the authority and direction of said corporation.



MARK J. HULLER, Attorney at Law
NOTARY PUBLIC - STATE OF OHIO
My commission has no expiration date, Section 147.03 O.R.C.

I, the undersigned Secretary or Assistant Secretary of THE CINCINNATI INSURANCE COMPANY, hereby certify that the above is a true and correct copy of the Original Power of Attorney issued by said Company, and do hereby further certify that the said Power of Attorney is still in full force and effect.

GIVEN under my hand and seal of said Company at Fairfield, Ohio.
this day of



Secretary



2019 CIPP Bid

Visu-Sewer

PROPOSAL

Date AUGUST 27, 2019

Proposal of VISU-SEWER, INC., (hereinafter called Bidder), a corporation, organized and existing under the laws of the State of WISCONSIN, doing business as A CORPORATION. To the City Council, City Hall, P.O. Box 948, City of Escanaba, Michigan, (hereinafter call Owner).

The Bidder, in compliance with advertisement for bids for the **2019 Sewer CIPP Lining Project**, having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposed to furnish all labor, materials, and supplies and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the price and/or prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is part.

Construction and any site cleanup must be completed on or prior to June 30, 2020. Exact dates of construction shall be coordinated with the City of Escanaba Engineer prior to start of any construction.

The City of Escanaba reserves the right to delete part of or negotiate directly with any and all bidders concerning any matter related to any bid, and also to remove any portion of the work.

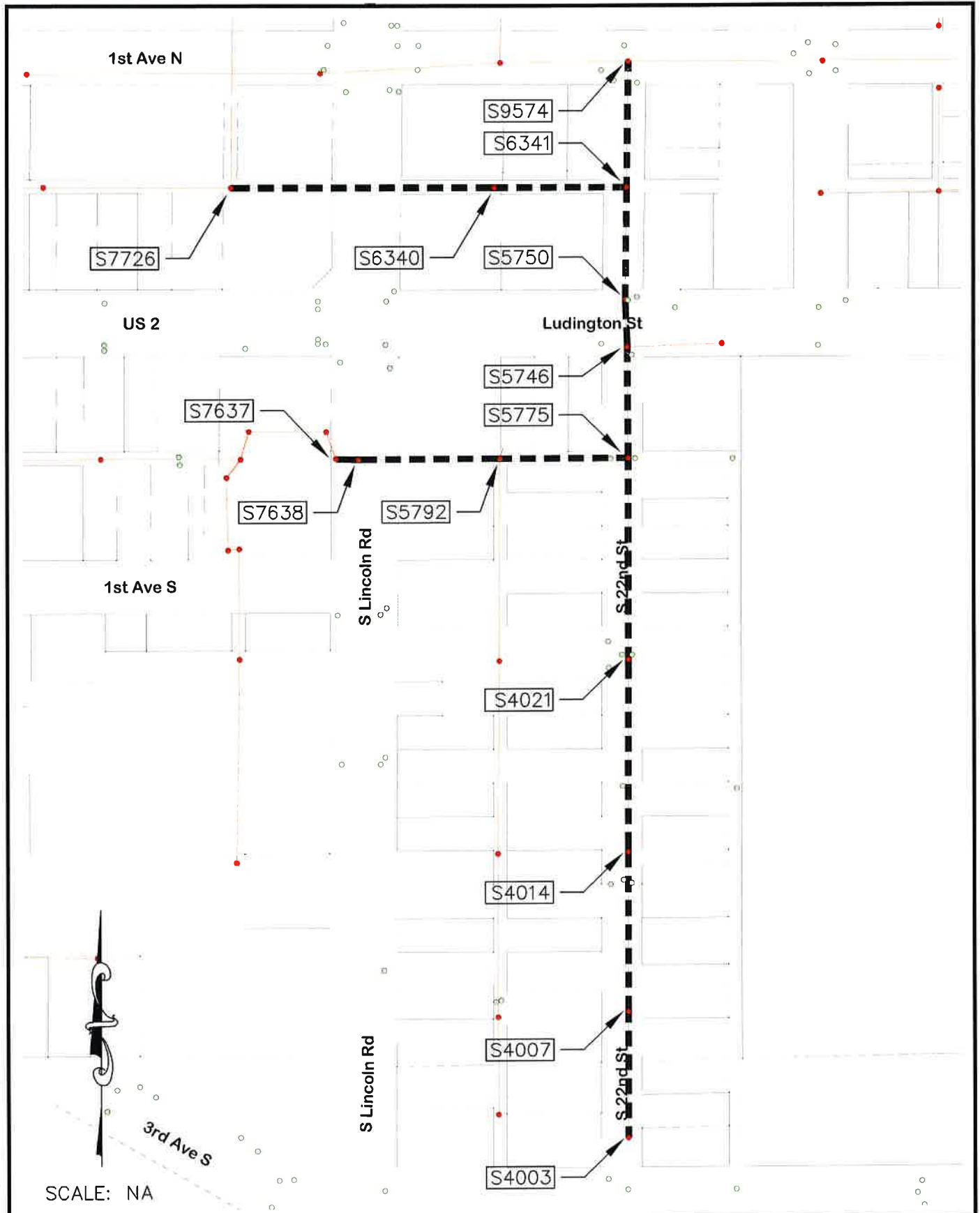
The Bidder acknowledges receipt of the following addendum:

NONE Dated: _____
_____ Dated: _____
_____ Dated: _____

SCHEDULE OF PRICES

Area 1 (STORM): North 20th Street, 3rd Avenue North to 6th Avenue North

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>1540.00</u>	<u>1540.00</u>
2.	CIPP Rehabilitation				
	27 inch: M9851 to M9819	481.57	Feet	<u>119.00</u>	<u>57,306.83</u>
	30 inch: M9819 to M9803	459.61	Feet	<u>140.00</u>	<u>64,345.40</u>
	M9803 to C9794	427.62	Feet	<u>140.00</u>	<u>59,866.80</u>
	C9794 to M9772	170.84	Feet	<u>140.00</u>	<u>23,917.60</u>
3.	Pipe Cleaning/Root Cutting	1,539.64	Feet	<u>5.00</u>	<u>7,698.20</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	By-Pass	1.00	LS	<u>15,000.00</u>	<u>15,000.00</u>
6.	Traffic Control	1.00	LS	<u>1,500.00</u>	<u>1,500.00</u>
			Sub-Total	\$ <u>231,674.83</u>	



2019 CIPP Lining Project
Area 2 (Sanitary Sewer)

CITY OF ESCANABA

410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE:
08/08/2019

SCALE:
na

DRWG. NO.:
3 of 6

Area 2 (SANITARY): 22nd Street

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>3,000.00</u>	<u>3,000.00</u>
2.	CIPP Rehabilitation				
	<u>22nd Street, 1st Avenue North to 3rd Avenue South</u>				
	18 inch: S9574 to S6341	185.23	Feet	<u>66.25</u>	<u>12,271.49</u>
	S6341 to S5750	163.81	Feet	<u>66.25</u>	<u>10,852.41</u>
	15 inch: S5750 to S5746	71.06	Feet	<u>54.00</u>	<u>3,837.24</u>
	S5746 to S5775	164.14	Feet	<u>54.00</u>	<u>8,863.56</u>
	S5775 to S4021	298.82	Feet	<u>54.00</u>	<u>16,136.28</u>
	12 inch: S4021 to S4014	284.21	Feet	<u>37.60</u>	<u>10,686.30</u>
	S4014 to S4007	237.08	Feet	<u>37.60</u>	<u>8,914.21</u>
	8 inch: S4007 to S4003	188.14	Feet	<u>29.70</u>	<u>5,587.76</u>
	<u>Alley behind 2415 1st Avenue North (Donut Connection) east to North 22nd Street Main</u>				
	12 inch: S7726 to S6340	388.88	Feet	<u>37.60</u>	<u>14,621.89</u>
	S6340 to S6341	196.00	Feet	<u>37.60</u>	<u>7,369.60</u>
	<u>2301 Ludington Street (Walgreens) Parking Lot east to South 22nd Street Main</u>				
	12 inch: S7637 to S7638	32.92	Feet	<u>37.60</u>	<u>1,237.79</u>
	S7638 to S5792	209.52	Feet	<u>37.60</u>	<u>7,877.95</u>
	15 inch: S5792 to S5775	189.84	Feet	<u>54.00</u>	<u>10,251.36</u>
3.	Pipe Cleaning/Root Cutting	2,609.65	Feet	<u>3.00</u>	<u>7,828.95</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	Sewer Lateral Reinstatements	20.00	Ea	<u>150.00</u>	<u>3,000.00</u>
6.	Bypass	1.00	LS	<u>3,200.00</u>	<u>3,200.00</u>
7.	Traffic Control	1.0	LS	<u>2,500.00</u>	<u>2,500.00</u>
			Sub-Total	<u>\$ 138,536.79</u>	



2019 CIPP Lining Project Area 3 (Sanitary Sewer)

CITY OF ESCANABA
410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE: 08/08/2019
SCALE: na
DRWG. NO.: 4 of 6

Area 3 (SANITARY): 2nd Avenue South, South 16th Street to South 4th Street

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>4,200.00</u>	<u>4,200.00</u>
2.	CIPP Rehabilitation				
	8 inch: S4565 to S4573	369.23	Feet	<u>29.70</u>	<u>10,966.13</u>
	S4573 to S4633	379.25	Feet	<u>29.70</u>	<u>11,263.73</u>
	10 inch: S4633 to S4651	378.34	Feet	<u>28.60</u>	<u>10,820.52</u>
	S4651 to S4818	381.17	Feet	<u>28.60</u>	<u>10,901.46</u>
	S4818 to S4831	378.10	Feet	<u>28.60</u>	<u>10,813.66</u>
	S4831 to S4845	381.22	Feet	<u>28.60</u>	<u>10,902.89</u>
	S4845 to S4865	378.43	Feet	<u>28.60</u>	<u>10,823.10</u>
	S4865 to S4765	380.64	Feet	<u>28.60</u>	<u>10,886.30</u>
	S4765 to S4756	378.91	Feet	<u>28.60</u>	<u>10,836.83</u>
	S4756 to S4743	379.02	Feet	<u>28.60</u>	<u>10,839.97</u>
	S4743 to S4735	199.59	Feet	<u>28.60</u>	<u>5,708.27</u>
	8 inch: S4735 to S4727	196.99	Feet	<u>29.70</u>	<u>5,850.60</u>
3.	Pipe Cleaning/Root Cutting	4,180.89	Feet	<u>3.00</u>	<u>12,542.67</u>
4.	Pre- and Post-Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	Sewer Lateral Reinstatements	62.00	Ea	<u>150.00</u>	<u>9,300.00</u>
6.	Bypass	1.00	LS	<u>500.00</u>	<u>500.00</u>
7.	Traffic Control	1.00	LS	<u>500.00</u>	<u>500.00</u>
Sub-Total				\$	<u>148,156.13</u>

SL

23rd Ave S

S0816

S0809

24TH AVE SO

S0799

S Lincoln Rd

SO 22ND ST

S0752

S0754

S0767

25th Ave S

S11628

S3530

S0781

S1113

S3529

26th Ave S

SO 22ND ST

S1114

Lake Shore Dr

S0784



Lake Shore Dr

S0853

S0580

S0746

SCALE: NA

2019 CIPP Lining Project Area 4 (Sanitary Sewer)

DATE:
08/08/2019

SCALE:
na

CITY OF ESCANABA

410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



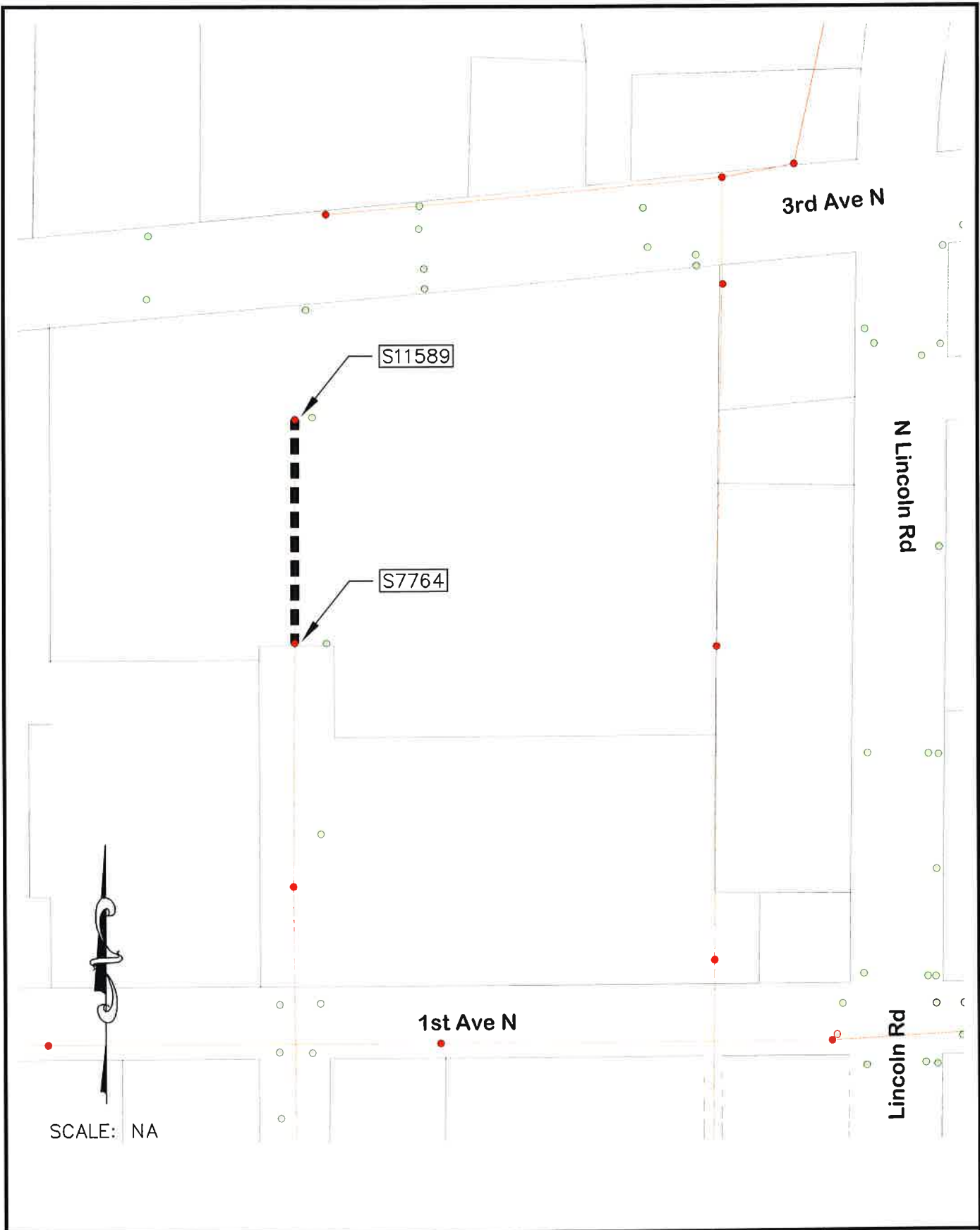
DRWG. NO.:
5 of 6

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Area 4 (SANTTARY): South 22nd Street, 23rd Avenue South to Lakeshore Drive

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>3,400.00</u>	<u>3,400.00</u>
2.	CIPP, Lining				
	<u>South 22nd Street, 23rd Avenue South to Lakeshore Drive</u>				
	12 inch: S0816 to S0809	183.52	Feet	<u>37.60</u>	<u>6,900.35</u>
	S0809 to S0799	358.62	Feet	<u>37.60</u>	<u>13,484.11</u>
	S0799 to S0752	234.09	Feet	<u>37.60</u>	<u>8,801.78</u>
	S0752 to S0754	128.05	Feet	<u>37.60</u>	<u>4,814.68</u>
	S0754 to S0781	182.24	Feet	<u>37.60</u>	<u>6,852.22</u>
	S0781 to S0784	207.86	Feet	<u>37.60</u>	<u>7,815.54</u>
	S0784 to S0580	204.13	Feet	<u>37.60</u>	<u>7,675.29</u>
	<u>Alley between 25th and 26th Ave. South; South Lincoln Road to South 22nd Street</u>				
	8 inch: S3529 to S3530	209.55	Feet	<u>29.70</u>	<u>6,223.64</u>
	S3530 to S0781	206.23	Feet	<u>29.70</u>	<u>6,125.03</u>
	<u>Alley between 26th Ave. South and Lakeshore Dr.; South 22nd Street to South Lincoln Road</u>				
	8 inch: S0746 to S0853	239.42	Feet	<u>29.70</u>	<u>7,110.77</u>
	S0853 to S0784	240.79	Feet	<u>29.70</u>	<u>7,151.46</u>
	<u>Alley between 25th Ave. South and Lakeshore Dr.; South 22nd Street to 25th Avenue South</u>				
	8 inch: S0784 to S1114	216.07	Feet	<u>29.70</u>	<u>6,417.28</u>
	S1114 to S11628	205.42	Feet	<u>29.70</u>	<u>6,100.97</u>
	S1114 to S1113	260.52	Feet	<u>29.70</u>	<u>7,737.44</u>
	S1113 to S0767	254.86	Feet	<u>29.70</u>	<u>7,569.34</u>
3.	CIPP, Cleaning/Root Cutting, Pipe	3,331.37	Feet	<u>3.00</u>	<u>9,994.11</u>
4.	Pre- and Post-Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	Sewer Lateral Reinstatements	55.00	Ea	<u>150.00</u>	<u>8,250.00</u>
6.	Bypass	1.00	LS	<u>500.00</u>	<u>500.00</u>
7.	Traffic Control	1.00	LS	<u>500.00</u>	<u>500.00</u>
			Sub-Total	\$	<u>133,924.01</u>

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SCALE: NA

2019 CIPP Lining Project
Area 5 (Sanitary Sewer)

DATE:
08/08/2019

SCALE:

na

DRWG. NO.:
6 of 6

CITY OF ESCANABA

410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



Area 5 (SANITARY): Delta Plaza Mall

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>1,000.00</u>	<u>1,000.00</u>
2.	CIPP Rehabilitation 8 inch: S11589 to S7764	246.24	Feet	<u>29.70</u>	<u>7,313.33</u>
3.	Pipe Cleaning/Root Cutting	246.24	Feet	<u>3.00</u>	<u>738.72</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	By-Pass	1.00	LS	<u>500.00</u>	<u>500.00</u>
6.	Traffic Control	1.00	LS	<u>500.00</u>	<u>500.00</u>
Sub-Total				\$	<u>10,552.05</u>

GRAND TOTAL \$ 662,843.81


The above unit sum price shall include labor, materials, overhead, profit, insurance, etc. to complete the project under this Contract.

The Bidder understands that the OWNER reserves the right to reject any or all bids and to waive any informalities in the bids, and also to remove any portion of the work.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of thirty (30) calendar days after the scheduled closing time for receiving bids.

Upon written notice of acceptance of this bid, the Bidder will execute the formal contract attached within ten (10) days after said notice and deliver a surety bond and/or bonds as required. The bid security attached in the sum of: TEN PERCENT OF AMOUNT BID (\$ 10% of Bid) is to become the property of the OWNER in the event the contract and bond and/or bonds are not executed and delivered within the time above set forth, as liquidated damages for the delay and additional expense to the OWNER caused thereby.

Respectfully submitted,

By  _____
(Name)
KEITH M. ALEXANDER

PRESIDENT
(Title) **W230 N4855 BETKER DR.**
PEWAWKEE, WI 53072

(Business Address Seal- if bid is by a corporation)

2019 CIPP Bid

Insituform

PROPOSAL

Date August 27, 2019

Proposal of Insituform Technologies USA, LLC, (hereinafter called Bidder), a corporation, organized and existing under the laws of the State of Delaware, doing business as Insituform Technologies USA, LLC. To the City Council, City Hall, P.O. Box 948, City of Escanaba, Michigan, (hereinafter call Owner).

The Bidder, in compliance with advertisement for bids for the **2019 Sewer CIPP Lining Project**, having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposed to furnish all labor, materials, and supplies and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the price and/or prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is part.

Construction and any site cleanup must be completed on or prior to June 30, 2020. Exact dates of construction shall be coordinated with the City of Escanaba Engineer prior to start of any construction.

The City of Escanaba reserves the right to delete part of or negotiate directly with any and all bidders concerning any matter related to any bid, and also to remove any portion of the work.

The Bidder acknowledges receipt of the following addendum:

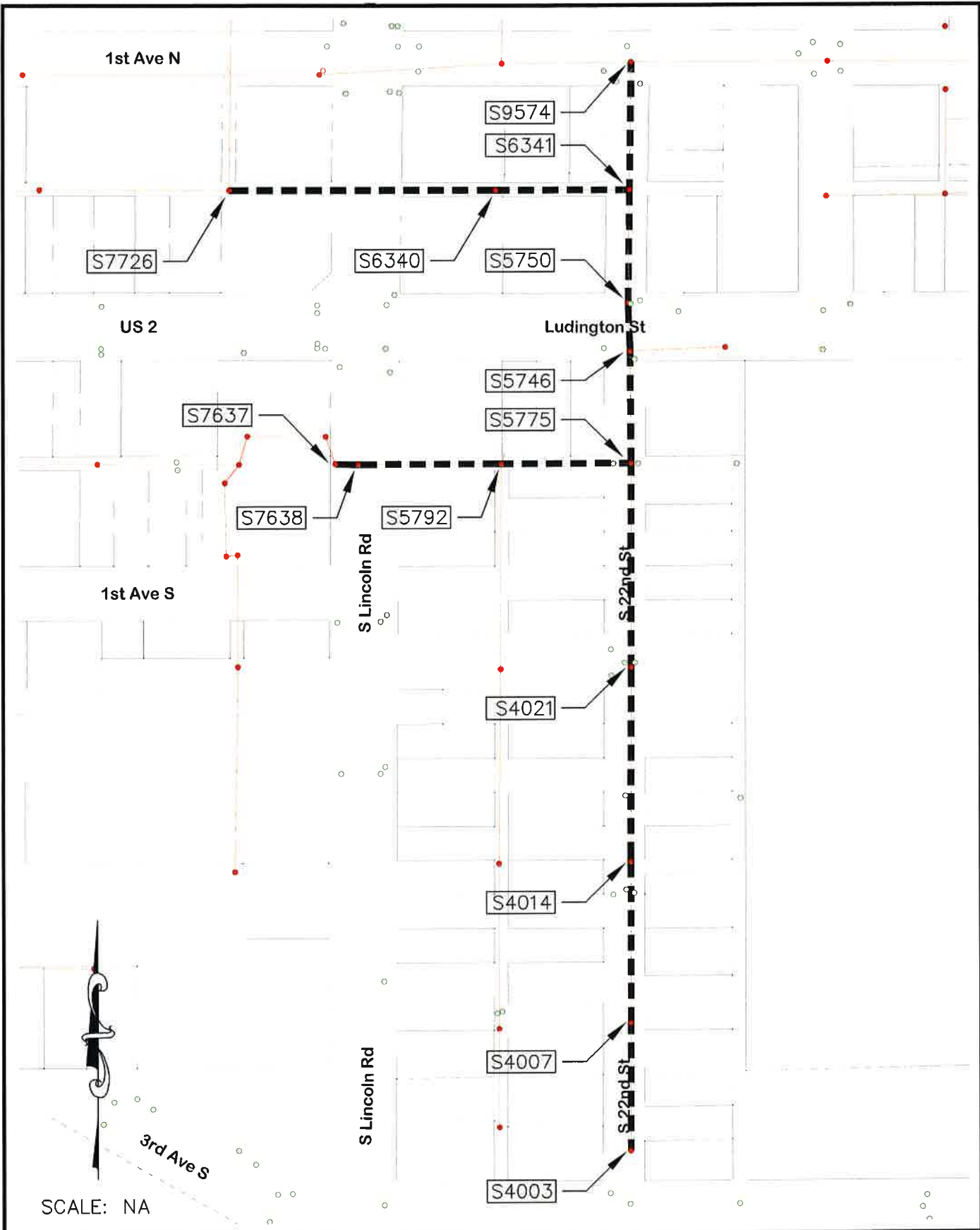
<u>none</u>	Dated: <u>n/a</u>
↓	Dated: ↓
	Dated: ↓

SCHEDULE OF PRICES

Area 1 (STORM): North 20th Street, 3rd Avenue North to 6th Avenue North

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	42,000.00	42,000.00
2.	CIPP Rehabilitation				
	27 inch: M9851 to M9819	481.57	Feet	125.00	60,196.25
	30 inch: M9819 to M9803	459.61	Feet	148.00	68,022.28
	M9803 to C9794	427.62	Feet	149.00	63,715.38
	C9794 to M9772	170.84	Feet	192.00	32,801.28
3.	Pipe Cleaning/Root Cutting	1,539.64	Feet	7.90	12,163.16
4.	Pre- and Post- Installation Inspection	1.00	LS	500.00	500.00
5.	By-Pass	1.00	LS	2,280.00	2,280.00
6.	Traffic Control	1.00	LS	4,200.00	4,200.00
Sub-Total				\$	285,878.35

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SCALE: NA

2019 CIPP Lining Project
Area 2 (Sanitary Sewer)

CITY OF ESCANABA

410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE:
08/08/2019

SCALE:
na

DRWG. NO.:
3 of 6

Area 2 (SANITARY): 22nd Street

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>2,100.00</u>	<u>2,100.00</u>
2.	CIPP Rehabilitation				
	<u>22nd Street. 1st Avenue North to 3rd Avenue South</u>				
	18 inch: S9574 to S6341	185.23	Feet	<u>80.10</u>	<u>14,836.92</u>
	S6341 to S5750	163.81	Feet	<u>80.10</u>	<u>13,121.18</u>
	15 inch: S5750 to S5746	71.06	Feet	<u>132.20</u>	<u>9,394.13</u>
	S5746 to S5775	164.14	Feet	<u>55.80</u>	<u>9,159.01</u>
	S5775 to S4021	298.82	Feet	<u>55.80</u>	<u>16,674.16</u>
	12 inch: S4021 to S4014	284.21	Feet	<u>43.50</u>	<u>12,363.14</u>
	S4014 to S4007	237.08	Feet	<u>43.50</u>	<u>10,312.98</u>
	8 inch: S4007 to S4003	188.14	Feet	<u>36.90</u>	<u>6,942.37</u>
	<u>Alley behind 2415 1st Avenue North (Donut Connection) east to North 22nd Street Main</u>				
	12 inch: S7726 to S6340	388.88	Feet	<u>42.30</u>	<u>16,449.62</u>
	S6340 to S6341	196.00	Feet	<u>42.30</u>	<u>8,290.80</u>
	<u>2301 Ludington Street (Walgreens) Parking Lot east to South 22nd Street Main</u>				
	12 inch: S7637 to S7638	32.92	Feet	<u>55.50</u>	<u>1,827.06</u>
	S7638 to S5792	209.52	Feet	<u>55.50</u>	<u>11,628.36</u>
	15 inch: S5792 to S5775	189.84	Feet	<u>74.00</u>	<u>14,048.16</u>
3.	Pipe Cleaning/Root Cutting	2,609.65	Feet	<u>0.50</u>	<u>1,304.83</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	Sewer Lateral Reinstatements	20.00	Ea	<u>137.40</u>	<u>2,748.00</u>
6.	Bypass	1.00	LS	<u>2,000.00</u>	<u>2,000.00</u>
7.	Traffic Control	1.0	LS	<u>870.00</u>	<u>870.00</u>
			Sub-Total	<u>\$ 154,570.72</u>	



2019 CIPP Lining Project Area 3 (Sanitary Sewer)

CITY OF ESCANABA

410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE:
08/08/2019

SCALE:
na

DRWG. NO.:
4 of 6

SCALE: NA

Area 3 (SANITARY): 2nd Avenue South, South 16th Street to South 4th Street

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>2,100.00</u>	<u>2,100.00</u>
2.	CIPP Rehabilitation				
	8 inch: S4565 to S4573	369.23	Feet	<u>27.20</u>	<u>10,043.06</u>
	S4573 to S4633	379.25	Feet	<u>27.00</u>	<u>10,239.75</u>
	10 inch: S4633 to S4651	378.34	Feet	<u>31.80</u>	<u>12,031.21</u>
	S4651 to S4818	381.17	Feet	<u>31.90</u>	<u>12,159.32</u>
	S4818 to S4831	378.10	Feet	<u>32.00</u>	<u>12,099.20</u>
	S4831 to S4845	381.22	Feet	<u>32.00</u>	<u>12,199.04</u>
	S4845 to S4865	378.43	Feet	<u>32.00</u>	<u>12,109.76</u>
	S4865 to S4765	380.64	Feet	<u>32.00</u>	<u>12,180.48</u>
	S4765 to S4756	378.91	Feet	<u>31.80</u>	<u>12,049.34</u>
	S4756 to S4743	379.02	Feet	<u>35.40</u>	<u>13,417.31</u>
	S4743 to S4735	199.59	Feet	<u>35.40</u>	<u>7,065.49</u>
	8 inch: S4735 to S4727	196.99	Feet	<u>35.90</u>	<u>7,071.94</u>
3.	Pipe Cleaning/Root Cutting	4,180.89	Feet	<u>2.10</u>	<u>8,779.87</u>
4.	Pre- and Post-Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	Sewer Lateral Reinstatements	62.00	Ea	<u>87.80</u>	<u>5,443.60</u>
6.	Bypass	1.00	LS	<u>1,900.00</u>	<u>1,900.00</u>
7.	Traffic Control	1.00	LS	<u>1,200.00</u>	<u>1,200.00</u>
			Sub-Total	\$ <u>152,589.37</u>	

SL

23rd Ave S

S0816

S0809

24TH AVE SO

S0799

S Lincoln Rd

SO 22ND ST

S0752

S0754

S0767

25th Ave S

S11628

S3530

S0781

S1113

S3529

26th Ave S

SO 22ND ST

S1114

Lake Shore Dr

S0784



S0853

Lake Shore Dr

S0580

S0746

Lake Shore Dr

SCALE: NA

2019 CIPP Lining Project Area 4 (Sanitary Sewer)

DATE:
08/08/2019

SCALE:
na

DRWG. NO.:
5 of 6

CITY OF ESCANABA

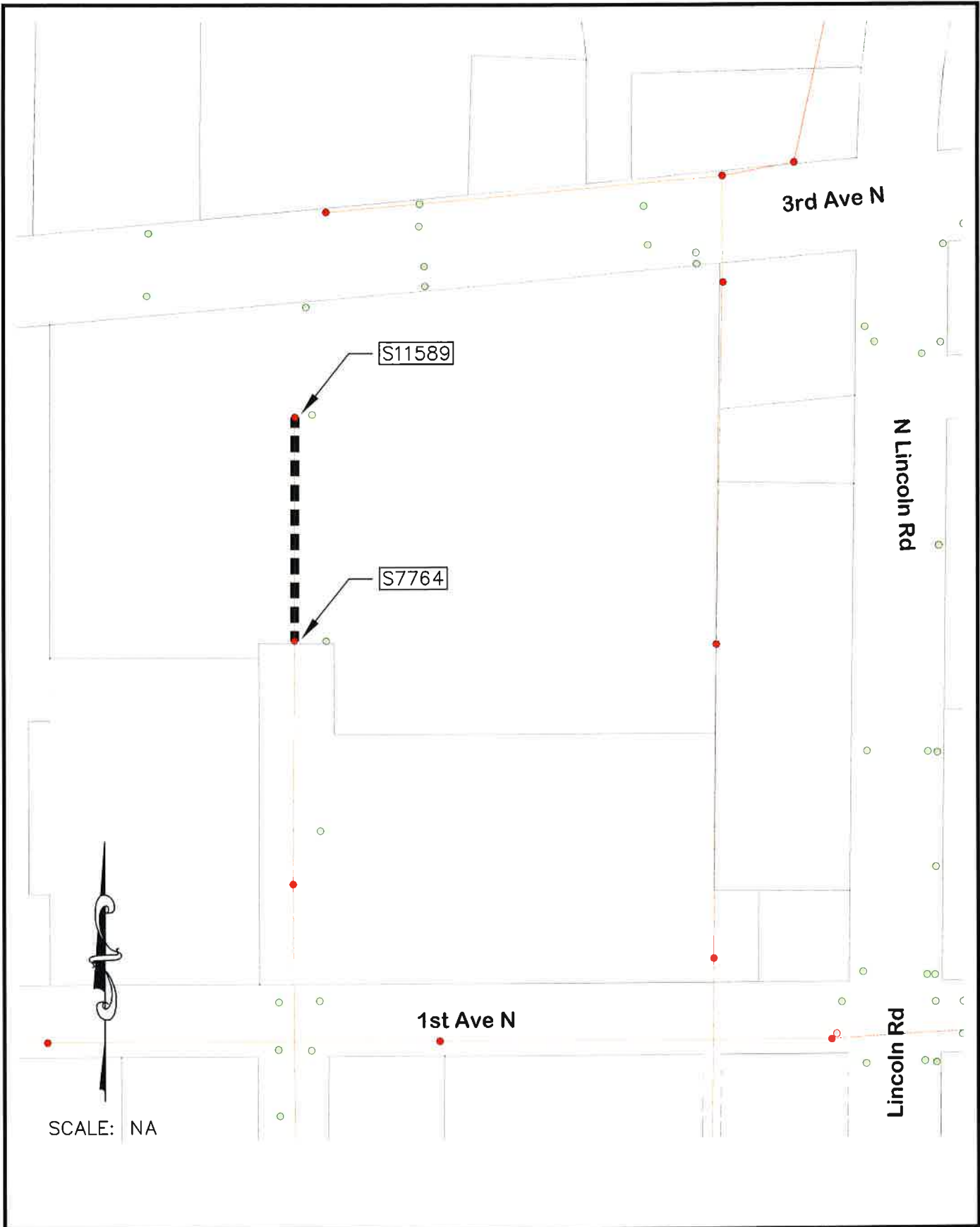
410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



Area 4 (SANITARY): South 22nd Street, 23rd Avenue South to Lakeshore Drive

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>\$2,100.01</u>	<u>2,100.01</u>
2.	CIPP, Lining				
	<u>South 22nd Street, 23rd Avenue South to Lakeshore Drive</u>				
	12 inch: S0816 to S0809	183.52	Feet	<u>44.20</u>	<u>8,111.58</u>
	S0809 to S0799	358.62	Feet	<u>44.20</u>	<u>15,851.00</u>
	S0799 to S0752	234.09	Feet	<u>44.70</u>	<u>10,463.82</u>
	S0752 to S0754	128.05	Feet	<u>61.70</u>	<u>7,900.69</u>
	S0754 to S0781	182.24	Feet	<u>33.40</u>	<u>6,086.82</u>
	S0781 to S0784	207.86	Feet	<u>33.40</u>	<u>6,942.52</u>
	S0784 to S0580	204.13	Feet	<u>33.40</u>	<u>6,817.94</u>
	<u>Alley between 25th and 26th Ave. South: South Lincoln Road to South 22nd Street</u>				
	8 inch: S3529 to S3530	209.55	Feet	<u>31.50</u>	<u>6,600.83</u>
	S3530 to S0781	206.23	Feet	<u>31.50</u>	<u>6,496.25</u>
	<u>Alley between 26th Ave. South and Lakeshore Dr.: South 22nd Street to South Lincoln Road</u>				
	8 inch: S0746 to S0853	239.42	Feet	<u>32.70</u>	<u>7,829.03</u>
	S0853 to S0784	240.79	Feet	<u>32.70</u>	<u>7,873.83</u>
	<u>Alley between 25th Ave. South and Lakeshore Dr.: South 22nd Street to 25th Avenue South</u>				
	8 inch: S0784 to S1114	216.07	Feet	<u>36.60</u>	<u>7,908.16</u>
	S1114 to S11628	205.42	Feet	<u>37.50</u>	<u>7,703.25</u>
	S1114 to S1113	260.52	Feet	<u>32.70</u>	<u>8,519.00</u>
	S1113 to S0767	254.86	Feet	<u>32.70</u>	<u>8,333.92</u>
3.	CIPP, Cleaning/Root Cutting, Pipe	3,331.37	Feet	<u>1.30</u>	<u>4,330.78</u>
4.	Pre- and Post-Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	Sewer Lateral Reinstatements	55.00	Ea	<u>110.00</u>	<u>6,050.00</u>
6.	Bypass	1.00	LS	<u>1,700.00</u>	<u>1,700.00</u>
7.	Traffic Control	1.00	LS	<u>1,000.00</u>	<u>1,000.00</u>
			Sub-Total	<u>\$ 139,119.43</u>	

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2019 CIPP Lining Project
 Area 5 (Sanitary Sewer)

CITY OF ESCANABA
 410 LUDINGTON ST. ESCANABA, MICH. 49829 (906) 786-9402



DATE: 08/08/2019
SCALE: na
DRWG. NO.: 6 of 6

Area 5 (SANITARY): Delta Plaza Mall

<u>Item No</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.	Mobilization	1.00	LS	<u>2,100.00</u>	<u>2,100.00</u>
2.	CIPP Rehabilitation				
	8 inch: S11589 to S7764	246.24	Feet	<u>32.20</u>	<u>7,928.93</u>
3.	Pipe Cleaning/Root Cutting	246.24	Feet	<u>3.80</u>	<u>935.71</u>
4.	Pre- and Post- Installation Inspection	1.00	LS	<u>500.00</u>	<u>500.00</u>
5.	By-Pass	1.00	LS	<u>150.00</u>	<u>150.00</u>
6.	Traffic Control	1.00	LS	<u>110.00</u>	<u>110.00</u>
			Sub-Total	\$ <u>11,724.64</u>	


GRAND TOTAL \$ 743,882.51

The above unit sum price shall include labor, materials, overhead, profit, insurance, etc. to complete the project under this Contract.

The Bidder understands that the OWNER reserves the right to reject any or all bids and to waive any informalities in the bids, and also to remove any portion of the work.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of thirty (30) calendar days after the scheduled closing time for receiving bids.

Upon written notice of acceptance of this bid, the Bidder will execute the formal contract attached within ten (10) days after said notice and deliver a surety bond and/or bonds as required. The bid security attached in the sum of: 10% of bid amount (\$ N/A) is to become the property of the OWNER in the event the contract and bond and/or bonds are not executed and delivered within the time above set forth, as liquidated damages for the delay and additional expense to the OWNER caused thereby.

Respectfully submitted,
 By  Janet Hass

 (Name)
 Contracting & Attesting Officer

 (Title)

(Business Address Seal- if bid is by a corporation)
 17988 Edison Ave, Chesterfield, MO 63005

Agenda Item: NB-7
Date: 9-5-19

City Council Agenda Item Request

Date: 8/29/19

Name: Bob Becotte

Department: Public Works

Item: Approval of Bid for New Dump Truck with Plow


Meeting date requested: 9/5/19

Explanation for request:

Attached see a memorandum from Wendy Taavola, Assistant Public Works Director. Administration is recommending the purchase from U.P. Truck Center in the amount of \$186,014. This is a budgeted item.

MEMORANDUM

TO: Bob Becotte, Superintendent
Public Works

FROM: Wendy Taavola, Assistant Superintendent 
Public Works

RE: Recommendation for 2019 Bid of New Tandem Plow Truck

The City of Escanaba received four (4) bids for the 2019 request for bids of a NEW Tandem Plow Truck with Dump Box, Underbody Scraper, One way front plow and rear mount wing. Attached is the summary of the bids received.

We asked for options to be estimated in the bids for a standard steel dump box vs. stainless steel dump box upgrade and a one-way plow vs. reverse plow upgrade. A stainless steel box will be rust resistant and will last longer than the current trucks in our fleet. The reverse plow will make it easier for plow operations within the city spaces. The prices shown on the Bid Summary are not bold for the standard steel box and one-way plow and, if available for each body package, bold for the stainless steel box and reverse plow upgrades.

I am recommending that we purchase the 2020 Western Star 4700SB from U.P. Truck Center in Quinnesec, MI with the body package from Monroe Truck Equipment. The Western Star 4700SB is a solid, heavy-duty truck with a durable interior to withstand tough use. The wiring on the truck is easily accessible for troubleshooting issues which means less time in the shop. The frame specified is a single channel integral frame and will allow for easier cleaning for better corrosion protection. Parts for this truck are common and can be purchased from most truck parts dealers. In talking with the Delta County Road Commission, they have been very happy with their Western Star trucks.

I am also recommending that we include the upgrades to the truck of a stainless steel dump box and a reversible plow at a final cost of \$186,014. This fiscal year \$180,000 was budgeted for purchase of this truck. The additional cost of the upgrades do not significantly increase the overall price of the truck, but they will significantly increase the longevity and use. This will be a quality truck to add to our fleet that will last for years.

Bid Summary

One (1) NEW Tandem Plow Truck with Dump Box, Underbody Scraper, Front Plow and Rear Mount Wing.

Name of Bidder	Chassis				w/Monroe Equipment Package	w/Casper's Truck Eq. Package	w/Truck Equipment Package	w/Olson Body Package	Delivery Date
Kriete Group	2021	Mack	MHD	\$102,595.00	\$172,370.00 \$191,614.00	\$174,607.00			March 2020
UP Truck Center, Inc.	2020	Western Star	4700SB	\$96,995.00	\$166,770.00 \$186,014.00	\$169,007.00	\$174,610.00 \$188,385.00	\$175,729.00	7-9 MONTHS
Truck Country	2020	Freightliner	108 SD	\$95,700.00	\$165,475.00 \$184,719.00				7-8 MONTHS
UP International Trucks, Inc.	2020	International	HV 607 SBA	\$98,413.00	\$168,188.00 \$187,432.00		\$173,315.00 \$187,090.00	\$174,434.00	7-9 MONTHS

Bold = with stainless box and reverse plow upgrades

No Stainless Option

Bold = with stainless box and reverse plow upgrades

**CITY OF ESCANABA
RECORD OF BIDS**

DATE BIDS OPENED: 8/27/2019

DESCRIPTION OF ITEM: One (1) New 2019/2020 Tandem Plow Truck with Dump Box, Underbody Scraper, One Way Front Plow and Rear Mount Wing

NAME OF BIDDER	Price	Make	Model	Deliver Date	Check/ Bid Bond
UP Truck Center, Inc.		Western Star	(see bid)		\$20,000
UP Int'l Trucks, Inc.	see bid.	Int'l.	HV60 TSB4.		10%
Truck Country + Monroe Truck	\$165,475. ⁰⁰	Freightliner			
Monroe Truck Equip.	see bid	for equipment only.			\$7,000
Kreite Group.		MACK.			\$17,751

PRESENT:



8/27/19

2:08 pm



8/27/19

U.P. TRUCK CENTER, INC.

P.O BOX 261 HIGHWAY US-2

QUINNESEC MI. 49876

www.uptruckcenter.com

Bid Summary- Official Bid Documents Enclosed

City of Escanaba
401 Ludington Street
Escanaba, MI 49829
Tel: 906-786-1842

2020 Western Star 4700SB **Chassis Only:** **\$96,995.00**
*Includes all Spare Tires and Wheels and All requested warranty.

If MY 2020 Chassis Delivery 120 Days

- Chassis pricing expires 9/20/2019 and is based on a model year 2020. After that it will be a model year 2021 and will have a Model Year Escalator of \$1,200.00.

Proposal #1: Monroe Truck Equipment Body Package

Equipment With Standard Dump Box Option (69,775.00) **\$166,770.00**

Options:

Stainless Box Options	+5,613.00
Rev. Plow Controls/Valve/Lines	+ 700.00
One-Way Plow	+8,260.00
Rev. Front Plow	+9,034.00
Husting Hitch-Truck Portion	+ 948.00
Amber/Green Strobes & Plow Lights to Roof bar	+2,229.00
Two Shovel Holders	+ 275.00
Electric Brake Control	+ 375.00

Completed Delivery Approx. 240-270 days After Receipt of Order

Proposal #2: Casper's Truck Equipment Body Package

Equipment With Standard Dump Box Option (72,012.00) **\$169,007.00**

Options:

Rev. Plow Controls/Valve/Lines-No Plow	+ 697.00
One-Way Plow	+12,415.00
Rev. Front Plow	+15,050.00

Completed Delivery Approx. 240-270 days After Receipt of Order

Proposal #3: Truck Equipment Body Package

Equipment With Standard Dump Box Option (77,615.00) \$174,610.00

Options:

Stainless Box Options +2,250.00
Rev. Plow Controls/Valve/Lines Included in Plow Pricing
Rev. Front Plow +11,525.00

Completed Delivery Approx. 210-240 days After Receipt of Order

Proposal #4: Olson Trailer & Body Body Package

Equipment With Standard Dump Box Option (78,734.00) \$175,729.00

Options:

Stainless Box Options +3,197.00
One-Way Plow +14,726.00
Rev. Front Plow +15,920.00
Snow Wheel System +3,541.00

Completed Delivery Approx. 210-240 days After Receipt of Order

Thank you for the opportunity to provide a proposal to City of Escanaba

Signed: _____

Date: _____

Name: Todd Johnson
Title: Sales Manager
Company: U.P. Truck Center, Inc.
P.O. Box 261
Quinnesec, MI 49876
Phone: 906-774-0098 or Toll Free 888-744-8797
Fax: 906-774-9480
E-mail: todd@uptruckcenter.com

Notes/Options:

Page 1, Engine Heading, Section A.

My Proposal includes a proven Cummins L9 engine. It also includes a Cummins Exhaust Brake with an on/off switch which helps save on brakes and is super quiet!

I also included a 1350 Adapter flange for PTO Provision off the front of the engine. The truck spec did not call out for it unless you read through the body upfit portion. Just make sure it is on competitive bids.

Note: Western Star uses common name brand components so notice that the alternator is a Delco Remy, Horton Fan Clutch and Delco starter. This is nice because parts are available virtually anywhere if and when something might go wrong.

Page 1, Engine Heading, Section H.

My proposal includes an Inside/Outside in cab control for air intake. This allows for the air intake to be from outside the truck or Under the hood. This is fairly common in plow truck applications due the operation in snow that can sometime plug the outside air intake vents. If you do not require this option you may DEDUCT (\$200.00)

Page 1, Electrical Heading, Section B, line 3

My proposal includes 4 extra switches in the dash, powered and wired to a customer interface connector located between the driver and passenger seats. I also have a separate switch and wiring to the front of chassis for snow plow lights.

Note: Western Star still uses Point-To-Point wiring, not Multiplexed wiring systems. So troubleshooting and repairs can be done easier. The Fuse panel on a Western Star is located in the dash panel next to the switch panel so it can be reached easily and is well lit. Automatic Self resetting circuit breakers are included where possible.

Page 1, Transmission Heading, Section A

My Proposal includes an Allison 3000 RDS Transmission. The 3500 RDS is limited to 330 hp so it becomes incompatible.

I did supply a Body Lighting Interface connector in cab for easy connection for the body company.

Page 1 & 2, Frame Heading, Section A & B

My Proposal includes a Heavy Duty 7/16" Single Frame with a partial reinforcement at the front suspension for snow plow applications. Single Frame in a plow application has some significant benefits as it eliminates the space between the frame rails that collects dirt and salt and eventually deteriorates the frame. All Grade 8 fasteners on Western Star Frames, no Huck Bolts.

Page 2, Front Axle/Tandem Axles/Springs Heading, Section A

I included Front Brake Dust shields and Front Shock Absorbers in my proposal. If Not wanted you may DEDUCT

Front Brake Shields	(\$ 50.00)
Front Shock Absorbers	(\$100.00)

Page 2, Front Axle/Tandem Axles/Springs Heading, Section D

I quoted a 46,000# Airliner air suspension with Heavy Duty Suspension Options. This is a PROVEN Vocational suspension that we even have on Log Trucks. I did include a dump valve and Air Suspension Gauge, and rear shock absorbers and Rear Dust Covers as well. If Not Wanted you may DEDUCT:

Rear Dust Shields	(\$50.00)
Air Susp. Gauge	(\$15.00)

NOTE: Once again please notice that the Rear Axles are Meritor, the Driveline is Meritor, the Brakes are Meritor. All stuff that is available from nearly any parts outlet. Note the three separate switched for each function of the Diff Locks and how the brake chambers are mounted on the front side of the rear drives so they are not in the way when backing into a pile or paving machine.

Page 2, Tires/Wheels Heading, Section A&B

I Quoted Michelin Front Tires and Continental HDR2's on the rear. Good Quality Tires.

I Did INCLUDE a Spare Front Tire& Wheel and a Spare Rear Tire and Wheel in my price. Please make sure the competition includes these as well as they sometimes leave them out.

Page 3, Exterior Heading, Section A

I included 2 Inch Fender Extensions to keep the front tire spray down a little. If not Wanted DEDUCT.

NP Fender Extensions	(\$70.00)
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I Provided 3 Keys in my quote

Page 3, Exterior Heading, Section C

My Hood has the access hatches and the oil check and fill are relocated so they can be easily accessed through these openings. The Western Star 4700 Hood also has shock assisted closing so the hood closes easy and is easy to handle.

Reasons to Consider a Western Star 4700 from U.P. Truck Center, Inc.

1) **PROVEN PLOW TRUCK DESIGN**

Western Star trucks are rapidly becoming the truck of choice for many municipalities. I am confident that your mechanics and drivers would immediately be aware of the difference in quality and durability in our trucks compared to the competition. Please see the attached report showing how impressive Western Star's market share is in Michigan Road Commissions.

2) **PROVEN EXHAUST CONFIGURATION AND 24" GROUND CLEARANCE.**

There are several Western Star 4700 trucks in the area with this exact exhaust configuration that does indeed provide the needed clearance for the underbody and allows for smooth mounting of the remainder of the body package.

3) **REPUTATION**

Here are some customers in your area that run Western Star trucks as part of their snow plow fleet, feel free to contact any of them regarding Western Star and UP Truck Center.

Delta County Road Commission- Jody Norman

Dickinson County Road Commission- John McDonald or Jim Harris

City of Kingsford- Tom Pollack

4) **COMMON NAME BRAND PARTS**

I use common parts like Delco Remy Alternators and Starters, and Meritor Axles and Brakes, etc. These are NOT Proprietary parts and are available through most any truck parts supplier so you are not captive to our parts department.

5) **STRONG FRAME DESIGN**

STRONG Single Channel Integral Frame right through front frame extension
Heavy Duty Non Tubular Cross-members
Grade 8 bolts NOT HUCK BOLTS

6) **STRONG STEEL CAB**

One of the strongest, most durable cabs in the industry today, same cab we use when we build a full size Michigan Log Truck.

7) **POINT TO POINT WIRING**

No Multiplex Wiring. Easier to Troubleshoot without special software.

8) **DRIVER COMFORTS.**

Better seats, better lighting package, dash mtd. Cup holders, better storage.. all in all more Driver Comforts.

9) **Great Visibility:**

Sloped Hood Design offers incredible visibility.

10) **Local Service: UPPER MICHIGAN BASED DEALERSHIP**

We are locally owned and located right here in Quinnesec to provide any warranty and/or service needs on the Western Star.

U.P. TRUCK CENTER, INC.

P.O BOX 261 HIGHWAY US-2

QUINNESEC MI. 49876

www.uptruckcenter.com

Warranty Description

The following Warranty Options ARE INCLUDED

Basic Vehicle	1 Year/Unlimited	
Cab Corrossion Cab Structure Crossmembers Frame Rails	5 Years//Unlimited	
Cummins Engine: Includes Aftertreatment Device	5 Year/100,000 Miles (\$2,090.00 Value)	
Allison Transmission	3 Years/Unlimited	
Front and Rear Axles:	2 Years	
Towing	1 Year/Unlimited	
<u>Options:</u>		
Transmission	5 Years	ADD \$578.00
Front and Rear Axles	5 Years	ADD \$240.00
Towing	5 Years/Unlimited	ADD \$800.00
Electrical	5 Years	ADD \$703.00

U.P. Truck Center
OFFICIAL CHASSIS
Bid

NOTICE TO BIDDERS

Sealed bids will be received by the City of Escanaba at the office of the City Clerk, on or before 2 p.m. EST, on: TUESDAY, AUGUST 27, 2019.

The bids will be publicly opened and read in Room 101 in the City Hall located at 410 Ludington Street, Escanaba, Michigan at said date and time.

Bidder's proposals, and/or specifications may be obtained from the office of the City Clerk, located at 410 Ludington Street, Escanaba, Michigan, 49829. No bids will be considered unless the proposal and /or specifications (furnished by the City of Escanaba, Michigan), are properly completed and enclosed in a sealed envelope, marked:

ONE (1) NEW TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNT WING

In addition, the City of Escanaba, Michigan will not consider any proposal which has not been received prior to the published time, date and year of bid opening. (FAX transmittals will not be accepted.)

A Certified Check, Cashier's Check, or Bidder's Bond, drawn payable, without condition, to the City of Escanaba, Michigan, in an amount not less than 10% of the bid, will be submitted with each proposal as a guarantee that if the bid is accepted, the bidder will furnish materials or services as stated in his or her proposal. On failure of the successful bidder to fulfill the conditions of his or her proposal, he or she shall forfeit said deposit to the City of Escanaba, Michigan as liquidated damages. The acceptance of the proposal will be contingent upon the bidder's acceptance of this provision.

The City of Escanaba, Michigan reserves the right to reject any or all bids, or any part thereof at its discretion, and to waive any irregularities in the bidding. The City of Escanaba, Michigan may also split bids at its discretion. The City further reserves the right to negotiate directly with any and all bidders concerning any matter related to any bid.

All City of Escanaba, Michigan bids are prepared to afford all vendors the equal opportunity for fair and equitable competition. The City of Escanaba, Michigan assumes no liability or responsibility for any errors or oversights in the preparation and/or publication of bids.

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba
Office: (906) 786 - 1842

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART A: CAB AND CHASSIS

MINIMUM SPECIFICATIONS	FURNISHED
ENGINE	
A. DIESEL ENGINE RATED 350 - HP @ 1000 RPM AND 1000 lb.-ft. TORQUE @ 1200 RPM MINIMUM	Cummins L9 350 @ 2000 RPM 1000 lb-ft @ 1400
B. MEETS 2019 FEDERAL EMISSION STANDARDS WITH UREA – DIESEL EXHAUST FLUID	YES
C. FUEL FILTER WITH 120 VOLT ELECTRIC PRE-HEATER	YES DRYCO
D. HEAVY DUTY OIL COOLER	YES
E. HEAVY DUTY COOLING SYSTEM	YES
F. HORIZONTAL EXHAUST SYSTEM WITH VERTICAL TAILPIPE CONFIGURATION OF DIESEL PARTICULATE FILTER SO AS NOT TO INTERFERE WITH THE MOUNTING OF THE DUMP BOX, COMBINATION OIL-FUEL TANK AND UNDERBODY SCRAPER	YES
G. COOLANT FILTER REPLACEABLE "SPIN-ON"	YES
H. AIR FILTER DRY TYPE WITH IN CAB FILTER REMINDER	YES
ELECTRICAL	
A. HEAVY DUTY ALTERNATOR RATED AT 160 AMPERE MINIMUM	YES
B. BATTERIES, MOUNTED FOR CLEAN FRAME RAILS, IN CAB PREFERRED: <ol style="list-style-type: none"> 1. HEAVY DUTY 12 VOLT BATTERIES 2. EASY ACCESS JUMP START PROVISION 3. SPARE CIRCUITS/SWITCHES/WIRING FOR ROOF MOUNTED STROBES, REAR BOX STROBES, FORWARD CAB GUARD STROBES AND FOR ADDITIONAL CAB MOUNTED PLOW LIGHTS AND LED LIGHT TO SHINE ON REAR PLOW WING WHEN IN USE, IN CAB CONNECTIONS 4. TRUCK ELECTRICAL SYSTEMS SHALL BE SUPPRESSED AND SHALL NOT AFFECT AGENCY RADIO EQUIPMENT 5. BATTERY DISCONNECT SWITCH 	YES
TRANSMISSION	
A. ALLISON WORLD HD TRANSMISSION 3500 RDS 5-SPEED WIDE RATIO OR EQUIVALENT	Allison 3000 RDS
B. PUSH BUTTON ALLISON SHIFT CONTROL – DASH MOUNTED LOCATION OR EQUIVALENT	YES
C. EXTERNAL FLUID FILTER (SPIN ON)	YES
D. HEAVY DUTY TRANSMISSION COOLER	YES
E. TRANSMISSION CONTROL MODULE MOUNTED INSIDE THE CAB SO AS NOT TO BE EXPOSED TO THE OUTSIDE ELEMENTS	YES
FRAME	
A. HEAVY DUTY STRAIGHT RAIL FULL LENGTH CHANNEL NO LESS THAN 120,000 PSI YIELD STRENGTH	YES HD 7/16" Single Frame

MINIMUM SPECIFICATIONS

FURNISHED

B. CONVENTIONAL REINFORCEMENT	Lined at Front Suspension Only
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	YES
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	Body Co.
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	YES
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	YES
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	YES
B. GREASABLE DRAG LINK AND TIE ROD ENDS	YES
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION - 40,000 lb. CAPACITY OR EQUIVALENT	46,000 Heavy Duty Airline Suspension
E. WHEELBASE: 185" - 200"	YES
F. APPROXIMATELY 134" - 138" CAB TO AXLE 1. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX.	YES
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	YES
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX - MODEL # TU-FLO-550 OR EQUIVALENT	Cummins 18.7 CFM
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	YES
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	YES
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WITH HEATER OR EQUIVALENT	AD9 w/Heater
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	YES
TIRES/WHEELS	
A. FRONT 1. 315/80 R22.5 18 PLY HUB PILOTTED DISCS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY	YES - 20ply YES to Spare Tire & Wheel
B. REAR 1. 11R 22.5 14 PLY HUB PILOTTED DISCS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY	YES YES to Spare Tire & Wheel
FUEL TANK AND HYDRAULIC TANK	
B. MINIMUM 50 GALLON DIESEL, FRAME MOUNTED LEFT-HAND RAIL, UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	60gal Tank on truck for Fuel Rest is Body Company.

MINIMUM SPECIFICATIONS

FURNISHED

CAB EXTERIOR	
A. CONVENTIONAL GALVANIZED STEEL CAB	YES
B. ONE PIECE MOLDED RUBBER FLOOR MAT	YES
C. TILT FORWARD HOOD AND FENDERS WITH BUTTERFLY OPENINGS FOR EASY ACCESS TO THE ENGINE	YES
D. PASSENGER LOWER DOOR WINDOW	YES
E. STAINLESS STEEL MIRRORS WITH HEAVY DUTY HARDWARE WITH AUXILIARY CONVEX MIRRORS - HEATED	YES
F. STAINLESS STEEL DUAL OUTSIDE GRAB HANDLES	YES
G. DOME LIGHT ACTIVATED BY DOOR SWITCHES	YES + Under Dash
H. DUAL, HEAVY DUTY ELECTRIC TWO-SPEED WINDSHIELD WIPER WITH INTERMITTENT SPEED CONTROL AND ELECTRIC WASHER	YES w/ winter BLADES
I. CAB CLEARANCE L.E.D. LIGHTS LOCATED ON OUTER FRONT EDGE OF CAB TOP	YES LED
J. 4-WAY HAZARD SWITCH AS REQUIRED TO OPERATE ALL TURN SIGNAL LIGHTS SIMULTANEOUSLY IN A FLASHING MODE WITH A HEAVY DUTY FLASHER	YES
K. REFLECTORS AS REQUIRED BY MICHIGAN STATE LAW	YES
L. STANDARD HALOGEN or LED SEALED BEAM HEADLIGHTS	YES - Halogen
CAB INTERIOR	
A. HEAVY DUTY HEATER AND DEFROSTER	YES + Air-Conditioning
B. DRIVER AND PASSENGER SUN VISORS	YES
C. TILT/TELESCOPIC STEERING WHEEL	YES
D. AIR SUSPENSION, HIGH BACK DRIVER'S SEAT WITH DUAL ARM RESTS AND NON SUSPENSION, SINGLE PASSENGER SEAT WITH DUAL ARM RESTS	YES EXCEPT NO ARM RESTS on Passenger Seat
E. GRAB HANDLES FOR CAB EASY ENTRANCE AND EXIT	YES
F. AM/FM RADIO	YES
G. INSTRUMENT AND WARNING SYSTEMS 1. SPEEDOMETER, ODOMETER, TACHOMETER, HOUR METER, ENGINE COOLANT TEMPERATURE GAUGE WITH HIGH RECOMMENDED TEMPERATURE WARNING LIGHT & BUZZER, AIR PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT & BUZZER, ENGINE OIL PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT AND BUZZER, TRANSMISSION TEMPERATURE GAUGE, MANIFOLD PRESSURE GAUGE, VOLTMETER AND ENGINE AIR FILTER RESTRICTION GAUGE-IN-DASH MOUNTED FILTER MINDER	YES
MISCELLANEOUS	
A. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	YES Proven!
WARRANTY	
A. ENGINE: 60 MONTHS, 100,000 MILES	YES + Engine + After-treatment

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART B BODY PACKAGE

MINIMUM SPECIFICATIONS	FURNISHED
DUMP BOX	
A. LENGTH: 14 FEET	
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH – 62" FRONT, 48" SIDES AND 56" TAILGATE	
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	
D. 1/4 " AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR	
E. 8" I – BEAM CROSSMEMBERLESS UNDERSTRUCTURE	
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP	
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE	
H. ONE (1) 1/2" x 7" OFFSET TAILGATE HINGE PLATE	
I. AIR TAILGATE RELEASE	
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS	
K. GRIPSTRUT WALKRAILS BOTH SIDE	
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX	
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES	
N. GRAB HANDLE ON FRONT DRIVERS SIDE	
O. DUAL BODY PROPS	
P. 1/2 x 10 GA. x 78" CAB SHIELD 100% WELDED	
Q. BACK UP ALARM	
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM	
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUS	
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS	
U. BOX VIBRATOR	
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER	
STANDARD DUMP BOX OPTION COST:	
STAINLESS STEEL DUMP BOX OPTION COST:	
HOIST FOR DUMP BODY	
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR	
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING	
C. THE HOIST SHALL HAVE A 1/4" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE	
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI	

MINIMUM SPECIFICATIONS	FURNISHED
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNESS OF 80 DEGREES ROCKWELL "B"	
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	
LIGHTS	
<p>A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT:</p> <ol style="list-style-type: none"> 1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSES 2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSES 3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS' 4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS 5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK 	
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY	
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	
C. HARDENED 5" CENTER PIN WITH THREE ¾" MOUNTING BOLTS	
D. 2 ½" DIAMETER HINGE SHAFT	
E. (2) HEAVY DUTY SHOCK ABSORBERS	
F. (2) 3 ½" ACTUATING CYLINDERS	
G. 400 PSI CUSHION VALVE	
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	
L. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	
M. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	
N. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	
O. SOLID ¾" THICK MOUNTING BRACKETS	

MINIMUM SPECIFICATIONS

FURNISHED

P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	
REAR MOUNTED FULL TRIP WING	
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	
B. PARA -GLIDE WING POST	
C. CUSTOM HEAVY DUTY WING STOP	
D. 3/16" TAPERED MOLDBOARD	
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) 3/4" ORB	
H. MANUAL LOCK OUT WITH SAFETY CHAIN	
I. LIFT CYLINDER FROM REAR UPPER POSITION	
HYDRAULICS	
A. PUMP <ul style="list-style-type: none"> 1. CAST IRON CONSTRUCTION – FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING 2. 35 GPM AT 2000 RPM 3. DIRCT DRIVE OFF CRANKSHAFT 4. IN-LINE HYDRAULIC FILTER 	
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB <ul style="list-style-type: none"> 1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB 	
C. CONTROL SEQUENCE FROM DRIVER <ul style="list-style-type: none"> 1. DUMP BOX 2. UNDERBODY SCRAPER 3. FRONT PLOW 4. REAR MOUNT WING 	
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	
E. HYDRAULIC VALVE BANK – GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	
	ONE-WAY FRONT PLOW FUNCTION OPTION COST:
	FOUR-WAY FRONT PLOW FUNCTION OPTION COST:

MINIMUM SPECIFICATIONS

FURNISHED

OPTIONAL FRONT – MOUNTED, SLOTTED TRIP PLOW	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	
F. CASTOR TYPE ADJUSTABLE SKIDS	
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	
I. QUICK HITCH	
OPTIONAL FRONT-MOUNTED PLOW COST:	
TARP	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	YES
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	YES
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	Truck Manuals Online
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	YES
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	YES
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	YES
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	YES
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	YES

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	YES
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	YES
F.O.B. BODY LOCATIONS OR EQUIVALENT	
A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC.	X

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba

Office: (906) 786 - 1842

BIDDER'S PROPOSAL

DATE: 8/27/2019

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

Base Body Package Monroe: \$166,770.00
Chassis Only 96,995.00 Casper: \$169,007.00
*Phase See Option Page for Add'l Information Truck Equipment: 174,610.00
Olson: 175,729.00
MAKE: Western Star

MODEL: 4700 SB

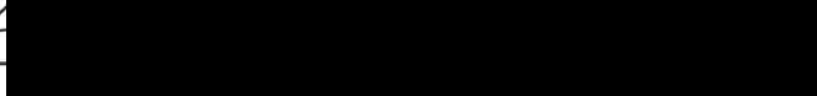
DELIVERY DATE: Chassis 12-31-19 Body upfit 3-5 months AF-

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ 20,000.00
(Must be included to qualify)

Submitted By:

FIRM: U.P. Truck Center, Inc.

ADDRESS: PO Box 261 Quinnesic, MI 49876

BY: TODD JOHNSON 

TITLE: Sales Manager

PRINTED NAME: TODD JOHNSON

Prepared for:
Wendy Taavola
CITY OF ESCANABA
401 LUDINGTON ST
ESCANABA, MI 49829
Phone: 906-786-1842

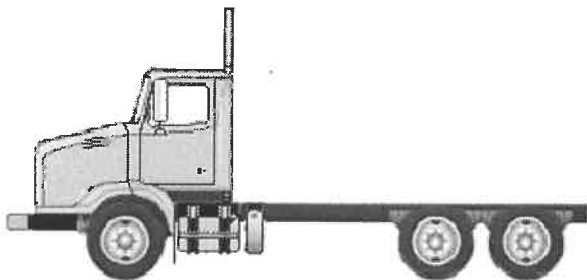
Prepared by:
Todd Johnson
U.P. TRUCK CENTER, INC.
4920 MENOMINEE ST.
QUINNESEC, MI 49876
Phone: 906-774-0098

A proposal for
CITY OF ESCANABA

Prepared by
U.P. TRUCK CENTER, INC.
Todd Johnson

Aug 26, 2019

Western Star 4700SB



Components shown may not reflect all spec'd options and are not to scale

Prepared for:
 Wendy Taavola
 CITY OF ESCANABA
 401 LUDINGTON ST
 ESCANABA, MI 49829
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S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear	Retail Price
Price Level				
PRL-20T	WESTERN STAR 4700 PRL-20T (EFF:04/30/19)			STD
Data Version				
DRL-015	SPECPRO21 DATA RELEASE VER 015			N/C
Vehicle Configuration				
001-451	4700 SET-BACK FRONT AXLE CHASSIS	9,215	6,530	\$166,640.00
004-220	2020 MODEL YEAR SPECIFIED			STD
002-004	SET BACK AXLE - TRUCK			STD
019-004	STRAIGHT TRUCK PROVISION, NON-TOWING			N/C
003-001	LH PRIMARY STEERING LOCATION			STD
General Service				
AA1-002	TRUCK CONFIGURATION			STD
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)			STD
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE			N/C
A84-1GM	GOVERNMENT BUSINESS SEGMENT			N/C
AA4-010	DIRT/SAND/ROCK COMMODITY			N/C
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			STD
AB1-008	MAXIMUM 8% EXPECTED GRADE			STD
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			STD
995-1A5	WESTERN STAR VOCATIONAL WARRANTY			STD
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 18000.0 lbs			
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 40000.0 lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 58000.0 lbs			
Truck Service				
AA3-073	BELLY PLOW BODY WITH HIGH GROUND CLEARANCE			N/C



Prepared for:
 Wendy Taavola
 CITY OF ESCANABA
 401 LUDINGTON ST
 ESCANABA, MI 49829
 Phone: 906-786-1842

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 4920 MENOMINEE ST.
 QUINNESEC, MI 49876
 Phone: 906-774-0098

Data Code	Description	Weight Front	Weight Rear	Retail Price
Engine				
101-22U	CUM L9 350 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM	-850	-70	(\$11,268.00)
Electronic Parameters				
79A-065	65 MPH ROAD SPEED LIMIT			N/C
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			N/C
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED			N/C
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM			N/C
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM			N/C
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH			N/C
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND			N/C
80G-002	PTO MINIMUM RPM - 700			N/C
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH			N/C
Engine Equipment				
99C-017	2016-2019 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION			STD
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)			\$106.00
13E-001	STANDARD OIL PAN			STD
105-015	OIL FILL AND DIPSTICK LOCATED FOR ENHANCED SERVICEABILITY			\$126.00
133-004	ONE PIECE VALVE COVER			STD
014-108	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER WITH SAFETY ELEMENT AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	10		\$444.00
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE			STD
292-216	(3) DTNA GENUINE, AGM STARTING AND CYCLING, MIN 2190CCA, 570RC, THREADED STUD BATTERIES			STD
290-1AC	PASSENGER SEAT BATTERY BOX VENTED TO OUTSIDE OF CAB			STD
282-013	BATTERY BOX MOUNTED UNDER PASSENGER SEAT			STD
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
289-006	PLASTIC BATTERY BOX COVER			STD
293-072	POSITIVE LOAD DISCONNECT WITH DASH MOUNTED CONTROL SWITCH	8		\$173.00
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2		\$80.00
306-019	LOW VOLTAGE BATTERY DISCONNECT AT 12.3 VOLTS FOR ISOLATED CIRCUITS WITH LOCAL ALARM			STD
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			N/C
131-013	AIR COMPRESSOR DISCHARGE LINE			STD
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM			STD
128-076	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	20		N/C
016-1E2	RAISED RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	-35	-30	\$1,006.00
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH			STD
239-038	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT			STD
237-1F8	RH CURVED VERTICAL TAILPIPE B-PILLAR RAISED UNDER STEP MOUNTED AFTERTREATMENT SYSTEM			N/C
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK			STD
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			STD
23Y-002	DIESEL EXHAUST FLUID PUMP MOUNTED AFT OF DIESEL EXHAUST FLUID TANK			\$68.00
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			STD
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD			STD
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE			N/C
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			STD
110-003	CUMMINS SPIN ON FUEL FILTER			N/C
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER			N/C
120-009	FLEETGUARD PLAIN COOLANT FILTER	10		\$145.00



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266-017	1300 SQUARE INCH ALUMINUM RADIATOR	-20		N/C
267-006	MOUNTING FOR FIREWALL MOUNTED SURGE TANK			STD
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT			STD
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			STD
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			STD
270-016	RADIATOR DRAIN VALVE			N/C
168-002	LOWER RADIATOR GUARD			STD
360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	20		\$1,276.00
138-998	NO BLOCK HEATER			(\$58.00)
166-998	NO OIL PREHEATER			(\$53.00)
134-001	ALUMINUM FLYWHEEL HOUSING			STD
132-004	ELECTRIC GRID AIR INTAKE WARMER			N/C
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-35		N/C

Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	-110	-35	\$7,712.00
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Transmission Equipment

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV			N/C
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			N/C
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84D-020	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 3, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84E-013	S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84F-012	S1 PERFORMANCE SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84G-014	2200 RPM PRIMARY MODE SHIFT SPEED			N/C
84H-014	2200 RPM SECONDARY MODE SHIFT SPEED			N/C



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84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED			N/C
85P-998	NO REAR PTO TRANSMISSION RANGE			STD
353-071	BODY LIGHTING POWER WIRED TO CUSTOMER INTERFACE CONNECTOR WITH SEPARATE STOP/TURN			\$273.00
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			N/C
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			N/C
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013			N/C
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK			STD
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			N/C
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			N/C

Front Axle and Equipment

400-1BA	DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE			\$179.00
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			STD
403-002	NON-ASBESTOS FRONT BRAKE LINING			STD
419-023	CONMET CAST IRON FRONT BRAKE DRUMS			STD
427-001	FRONT BRAKE DUST SHIELDS	5		\$102.00
409-006	FRONT OIL SEALS			STD
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL			STD
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES			STD
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS			STD
406-001	STANDARD KING PIN BUSHINGS			STD
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	90		\$1,115.00
539-003	POWER STEERING PUMP			STD
534-003	4 QUART POWER STEERING RESERVOIR			N/C
533-001	OIL/AIR POWER STEERING COOLER			N/C
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE			(\$16.00)

Front Suspension

620-005	18,000# FLAT LEAF FRONT SUSPENSION	30		\$75.00
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619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION			STD
410-001	FRONT SHOCK ABSORBERS			\$202.00
Rear Axle and Equipment				
420-1K3	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE		-40	\$511.00
421-529	5.29 REAR AXLE RATIO			N/C
424-003	IRON REAR AXLE CARRIER WITH OPTIONAL HEAVY DUTY AXLE HOUSING			\$112.00
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-30	-30	\$342.00
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES			STD
452-006	DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		30	\$1,311.00
878-022	(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AXLE VALVE AND (1) REAR-REAR AXLE VALVE			\$36.00
87A-005	INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH			STD
87B-008	INDICATOR LIGHT FOR EACH DRIVER CONTROLLED TRACTION DEVICE SWITCH			N/C
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			STD
433-002	NON-ASBESTOS REAR BRAKE LINING			STD
434-005	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S) WITH AUXILIARY SUPPORT BRACKETS			STD
451-023	CONMET CAST IRON REAR BRAKE DRUMS			STD
425-002	REAR BRAKE DUST SHIELDS		10	\$108.00
440-006	REAR OIL SEALS			STD
426-101	WABCO TRISTOP D LONGSTROKE 2-DRIVE AXLE SPRING PARKING CHAMBERS			STD
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS			STD
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE			(\$205.00)
Rear Suspension				
622-108	AIRLINER 46,000# REAR SUSPENSION WITH CHAIN CLEARANCE		390	\$655.00
621-007	AIRLINER HIGH POSITION RIDE HEIGHT			STD
431-005	RESTRAINED AXLE SEATS IN AXLE CLAMP GROUP			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
624-025	55 INCH AXLE SPACING			N/C
888-048	MANUAL DUMP VALVE FOR AIR SUSPENSION WITH GAUGE			\$37.00
87D-006	INDICATOR LIGHT FOR EACH REAR SUSPENSION CONTROL SWITCH			STD
910-001	SINGLE AIR REAR SUSPENSION LEVELING VALVE			STD
623-002	TRANSVERSE CONTROL RODS			STD
625-006	HEAVY DUTY SUSPENSION OPTION - 23,000#, 46,000#, 69,000# AIRLINER SUSPENSIONS		20	\$87.00
439-005	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM) (AIR RIDE SUSPENSION)			STD
Brake System				
490-100	WABCO 4S/4M ABS			STD
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			STD
904-001	FIBER BRAID PARKING BRAKE HOSE			STD
412-001	STANDARD BRAKE SYSTEM VALVES			STD
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			STD
480-009	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	20		N/C
479-015	AIR DRYER FRAME MOUNTED			STD
460-1AE	STEEL AIR TANKS MOUNTED FOR MAX GROUND CLEARANCE, (BELLY PLOW - AA3-073)			\$133.00
477-033	BW DV-2 AUTO DRAIN VALVE WITH HEATER ON WET TANK ONLY AND PETCOCKS ON ALL OTHER TANKS			\$79.00
Trailer Connections				
1AZ-998	NO TRAILER RECEPTACLE BRACKET			STD
Wheelbase & Frame				
545-507	5075MM (200 INCH) WHEELBASE			N/C
546-102	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI	330	80	\$1,203.00
547-034	PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION	195	-5	\$780.00
548-803	BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW			N/C
552-030	1600MM (63 INCH) REAR FRAME OVERHANG			STD
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH			N/C



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Data Code	Description	Weight Front	Weight Rear	Retail Price
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	158	-20	\$995.00
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 136.49 in			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 133.49 in			
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 332.4			
ZF1-99D	FRAME HEIGHT TOP FRONT UNLADEN : 34.22 in			
ZF2-99D	FRAME HEIGHT TOP FRONT LADEN : 30.93 in			
ZF3-99D	FRAME HEIGHT TOP REAR UNLADEN : 41.75 in			
ZF4-99D	FRAME HEIGHT TOP REAR LADEN : 40.19 in			
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 46.6 in			N/C
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 180.59 in			N/C
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 136.69 in			
553-001	SQUARE END OF FRAME			STD
587-003	REAR TOW HOOKS		10	\$69.00
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER			STD
561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION			STD
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)			STD
572-001	STANDARD REARMOST CROSSMEMBER			STD
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER			STD
568-001	STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER			STD

Chassis Equipment

556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-110		(\$560.00)
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15		\$56.00
586-015	FRONT ANTI-SPRAY CAB MOUNTED MUDFLAPS			STD
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS			STD
44Z-002	EXTERIOR HARNESSES WRAPPED IN ABRASION TAPE			STD

Fuel Tanks

204-195	60 GALLON/227 LITER RECTANGULAR ALUMINUM FUEL TANK - LH	5		\$437.00
218-005	RECTANGULAR FUEL TANK(S)			N/C
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			STD



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212-011	FUEL TANK(S) FORWARD - RAISED MOUNTING			\$285.00
664-001	PLAIN STEP FINISH			STD
205-001	FUEL TANK CAP(S)			STD
122-1H8	DAVCO 245 FUEL/WATER SEPARATOR WITH 12 VOLT HEAT AND WATER IN FUEL SENSOR	20		\$92.00
216-020	EQUIFLO INBOARD FUEL SYSTEM			STD
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			STD
221-998	NO FUEL COOLER	-10		(\$125.00)
Tires				
093-1RJ	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES	100		\$474.00
094-2F6	CONTINENTAL HDR2 11R22.5 14 PLY RADIAL REAR TIRES		184	(\$824.00)
* 510-1RJ	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL SPARE TIRE		163	\$955.00
* 508-2F6	CONTINENTAL HDR2 11R22.5 14 PLY RADIAL ADDITIONAL SPARE TIRE			\$615.00
Hubs				
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS			STD
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS			STD
Wheels				
502-433	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS	66		STD
505-523	MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS		72	(\$328.00)
* 511-433	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC SPARE WHEEL		103	\$272.00
* 51A-523	MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC ADDITIONAL SPARE WHEEL		79	\$127.00
496-011	FRONT WHEEL MOUNTING NUTS			STD
497-011	REAR WHEEL MOUNTING NUTS			STD
Cab Exterior				
829-1A8	110 INCH BBC STEEL CONVENTIONAL CAB			STD
82A-023	WESTERN STAR PAINTED ALUMINUM CAB SKIRT			STD
650-044	AIR CAB MOUNTS WITH CHECK VALVE			STD
705-059	RACEWAY WITHOUT MISCELLANEOUS CUSTOM CAB REQUIREMENTS			\$95.00



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648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE			STD
695-998	NO SLEEPER DOOR	-15		STD
667-001	FRONT FENDERS			STD
754-001	2 INCH FENDER EXTENSIONS	5		\$147.00
678-039	LH AND RH EXTERIOR GRAB HANDLES WITH RUBBER INSERT AND LH AND RH INTERIOR GRAB HANDLES MOUNTED TO A POST			\$7.00
646-008	STATIONARY BRIGHT FINISH GRILLE			STD
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE			STD
640-009	HEAVY DUTY STEEL CAB FLOOR			(\$348.00)
644-006	FIBERGLASS HOOD WITH ACCESS HATCHES	10		\$618.00
727-019	SINGLE HADLEY SD-978 26 INCH RECTANGULAR AIR HORN	-4		(\$116.00)
726-001	SINGLE ELECTRIC HORN			STD
728-001	SINGLE HORN SHIELD			N/C
657-1AF	DOORS AND IGNITION KEYED THE SAME (3 KEYS)			\$9.00
575-001	REAR LICENSE PLATE MOUNT END OF FRAME			STD
312-031	SINGLE RECTANGULAR H4 HALOGEN HEADLIGHTS WITH BRIGHT BEZELS			\$25.00
302-046	LED CHROME BULLET MARKER LIGHTS	5		\$89.00
314-823	WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH SINGLE CONNECTION AT LH FORWARD			\$98.00
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS			STD
300-015	STANDARD FRONT TURN SIGNAL LAMPS			STD
744-008	DUAL STAINLESS STEEL HEATED MIRRORS			\$46.00
797-001	DOOR MOUNTED MIRRORS			STD
796-001	102 INCH EQUIPMENT WIDTH			STD
743-1AA	LH AND RH SUREPLUS 574 8 INCH BRIGHT FINISH HEATED CONVEX MIRRORS WITH SEPARATE ADJUSTMENT, MOUNTED BELOW MIRROR			\$36.00
74A-998	NO AUXILIARY MIRROR			(\$36.00)
729-001	STANDARD SIDE/REAR REFLECTORS			STD
677-062	FIXED CAB MOUNTED STEPS LH AND RH FOR CAB ENTRY, BELLY PLOW BODY WITH HIGH GROUND CLEARANCE DOES NOT COMPLY FMCSR 399			\$145.00
768-046	17.5X35 INCH TINTED REAR WINDOW			STD
661-006	TINTED DOOR GLASS			STD
654-003	MANUAL DOOR WINDOW REGULATORS			STD



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769-002	LOWER RH DOOR WINDOW WITH FRESNEL LENS	7		\$72.00
663-014	2-PIECE TINTED CURVED BONDED WINDSHIELD			(\$139.00)
659-026	2 GALLON WINDSHIELD WASHER RESERVOIR WITH FLUID LEVEL INDICATOR, MOUNTED UNDER CAB, WITH REMOTE FILL			STD
Cab Interior				
707-1D0	GRAY VINYL BASE INTERIOR			STD
70K-005	BLACK HARD TRIM			STD
706-049	BASE LEFT HAND DOOR TRIM			STD
708-049	BASE RIGHT HAND DOOR TRIM			STD
772-006	BLACK MATS WITH SINGLE INSULATION			STD
785-019	NO DASH MOUNTED ASH TRAY, POWER RECEPTACLE IN LIEU OF LIGHTER			(\$5.00)
637-998	NO STORAGE-CAB INT,LH WALL,LOWER	-20	-10	STD
639-998	NO STORAGE-CAB INT, RH WALL, LOWER	-20	-10	STD
636-998	NO STORAGE-CAB INT,LH WALL,UPPER	-20	-10	N/C
638-998	NO STORAGE-CAB INT,RH WALL,UPPER	-20	-10	STD
691-001	FORWARD ROOF MOUNTED CONSOLE			STD
693-025	LH AND RH DOOR MAP POCKETS			STD
741-015	(2) COAT HOOKS ON BACKWALL OF CAB			STD
742-026	(1) CUP HOLDER MOUNTED IN BOTTOM CENTER OF DASH			(\$22.00)
680-034	TWO-TONE CHARCOAL UPPER/COOL GRAY LOWER SOFT TOUCH WING DASH WITH BLACK DRIVER SIDE COSMETIC UNDER DASH COVER			STD
700-014	HEATER, DEFROSTER AND AIR CONDITIONER WITH CONSTANT OUTLET TEMPERATURE CONTROL			(\$22.00)
701-016	HVAC DUCTING WITH FOAM MAIN FRESH AIR FILTER			N/C
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			STD
689-998	NO AUXILIARY HVAC UNIT	-10	-10	STD
170-015	STANDARD HEATER PLUMBING			STD
130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR			STD
698-001	RADIATOR MOUNTED AIR CONDITIONER CONDENSER			STD
702-002	BINARY CONTROL, R-134A			STD
739-001	CAB INSULATION			STD



Prepared for:
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 Phone: 906-786-1842

Prepared by:
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 4920 MENOMINEE ST.
 QUINNESEC, MI 49876
 Phone: 906-774-0098

Data Code	Description	Weight Front	Weight Rear	Retail Price
285-033	AUTOMATIC SELF-RESET CIRCUIT BREAKERS/FUSES IN DASH POWER DISTRIBUTION BOXES AND FUSES IN AUXILIARY POWER DISTRIBUTION BOXES			STD
324-075	DOOR ACTIVATED DOME LIGHT, UNDER DASH LIGHT AND LH AND RH DOOR MOUNTED COURTESY LIGHTS			STD
655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS			STD
740-998	NO MATTRESS	-15		STD
756-1DD	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 1 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION AND REAR CUSHION TILT			STD
760-294	BATTERY BOX MID BACK NON SUSPENSION PASSENGER SEAT			STD
759-007	DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS	4		\$71.00
758-022	BLACK MORDURA CLOTH DRIVER SEAT COVER			STD
761-023	BLACK MORDURA CLOTH PASSENGER SEAT COVER			STD
763-003	3 POINT DRIVER AND PASSENGER SEAT BELT RETRACTORS			STD
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN			STD
540-044	4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES			(\$76.00)
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			STD
Instruments & Controls				
185-002	NON-ADJUSTABLE SUSPENDED PEDALS			STD
106-002	ELECTRONIC FOOT ACCELERATOR			STD
870-002	BRIGHT ARGENT FINISH GAUGE BEZELS			STD
732-053	BLACK VINYL DRIVER INSTRUMENT PANEL			STD
734-021	BLACK VINYL CENTER INSTRUMENT PANEL			STD
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM			STD
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			STD
198-024	FILTERMINDER DASH MOUNTED AIR RESTRICTION GAUGE	2		\$47.00



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Data Code	Description	Weight Front	Weight Rear	Retail Price
149-015	ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES			STD
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			STD
811-041	ICU4ME DRIVER MESSAGE CENTER WITH GRAPHICAL DISPLAY, BLACK FACE GAUGES, DIAGNOSTICS AND DATA LINKED			STD
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			STD
844-001	2 INCH ELECTRIC FUEL GAUGE			STD
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE			N/C
4C0-998	NO ADDITIONAL EXTRA SWITCH ACCUATORS			STD
44Y-002	CUSTOMER INTERFACE CONNECTOR LOCATED BETWEEN SEATS WITH BLUNTCUTS			\$96.00
48F-998	NO PREWIRED HIGH POWER CIRCUIT			STD
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			STD
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			STD
867-004	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER			STD
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			STD
746-114	AM/FM/WB WORLD TUNER RADIO WITH AUXILIARY INPUT, J1939	10		\$290.00
747-002	ROOF/OVERHEAD CONSOLE MOUNTED RADIO			N/C
750-004	(4) RADIO SPEAKERS IN CAB			N/C
753-019	AM/FM ANTENNA MOUNTED ON RH FRONT A-PILLAR	2		\$32.00
748-998	NO CB RADIO/PROVISION			(\$21.00)
752-998	NO CB ANTENNA, BRACKET OR LEAD			(\$74.00)
75A-002	UHF/VHF RADIO POWER/GROUND HARNESS TO OVERHEAD INSTRUMENT PANEL			\$10.00
810-042	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITH ODOMETER			STD
817-001	STANDARD VEHICLE SPEED SENSOR			STD
812-001	ELECTRONIC 3000 RPM TACHOMETER			STD
813-998	NO VEHICLE PERFORMANCE MONITOR	-5		(\$998.00)
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP			STD
329-004	FOUR EXTRA SWITCHES IN DASH			\$109.00



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Data Code	Description	Weight Front	Weight Rear	Retail Price
4C1-001	HARDWIRE SWITCH #1,ON/OFF LATCHING, 10 AMPS IGNITION WIRED TO CUSTOMER INTERFACE CONNECTOR			N/C
4C2-001	HARDWIRE SWITCH #2,ON/OFF LATCHING, 10 AMPS IGNITION WIRED TO CUSTOMER INTERFACE CONNECTOR			N/C
4C3-001	HARDWIRE SWITCH #3,ON/OFF LATCHING, 10 AMPS IGNITION WIRED TO CUSTOMER INTERFACE CONNECTOR			N/C
4C4-001	HARDWIRE SWITCH #4,ON/OFF LATCHING, 10 AMPS IGNITION WIRED TO CUSTOMER INTERFACECONNECTOR			N/C
4C5-998	NO HARDWIRE SWITCH #5,ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR			STD
4C6-998	NO HARDWIRE SWITCH #6,ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR			STD
4C7-998	NO HARDWIRE SWITCH #7,ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR			STD
4C8-998	NO HARDWIRE SWITCH #8,ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR			STD
4C9-998	NO HARDWIRE SWITCH #9,ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR			STD
4D0-998	NO HARDWIRE SWITCH #10,ON/OFF LATCHING,WIRED TO CUSTOMER INTERFACE CONNECTOR			STD
842-001	2 INCH TURBO AIR PRESSURE GAUGE			\$34.00
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			STD
660-001	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES			\$11.00
304-043	CAB/TRAILER MARKER LIGHT SWITCH WITH SEPARATE HEADLIGHT SWITCH WITH HEADLIGHT/MARKER LIGHT INTERRUPTER SWITCHES ON STEERING WHEEL			STD
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR			STD
299-040	MANUAL TURN SIGNAL SWITCH, HEADLAMP HIGH/LOW AND FLASH, WASH/WIPE/INTERMITTENT			STD
298-036	PACIFIC INSIGHT ELECTRONIC FLASHER			STD
Design				
065-000	PAINT: ONE SOLID COLOR			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
Color				
980-5J5	CAB COLOR A: L6460EB SCHOOL BUS YELLOW ELITE BC			N/C
96J-001	CAB INTERIOR PAINTED SAME AS CAB COLOR			STD
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			STD
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			STD
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			STD
96F-972	POWDER WHITE (N0006EA) SPARE WHEEL/RIM (PKWHT21, TKWHT21, W, TW)			N/C

Certification / Compliance				
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			STD

Raw Performance Data				
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 332.4			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 133.49 in			
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 136.69 in			

Sales Programs
 NO SALES PROGRAMS HAVE BEEN SELECTED

T O T A L V E H I C L E S U M M A R Y

Adjusted List Price

Adjusted List Price ** \$176,286.00

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	9035 lbs	7391 lbs	16426 lbs
Dealer Installed Options	0 lbs	0 lbs	0 lbs
Total Weight⁺	9035 lbs	7391 lbs	16426 lbs



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ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE

Other Factory Charges

P73-2WS	STANDARD DESTINATION CHARGE	\$2,200.00
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Extended Warranty

WAI-47H	CUM 2017 L9: HD1 MD DTY 5 YEARS / 100,000 MILES / 161,000 KM EXTENDED WARRANTY. FEX APPLIES	\$1,550.00
WAX-101	CUM 2017 L9: AT3 MD DTY 5 YEARS / 100,000 MILES / 161,000 KM AFTERTREATMENT. FEX APPLIES	\$540.00
	Currency Exchange Rate	1.0000
	Total Extended Warranty (Local Currency)	\$2,090.00

Dealer Installed Options

		Weight Front	Weight Rear	Price
001	FREIGHT	0	0	\$250.00
	Total Dealer Installed Options	0 lbs	0 lbs	\$250.00

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

(**) Prices shown do not include taxes, fees, etc... "Net Equipment Selling Price" is located on the Quotation Details Proposal Report.

(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



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Q U O T A T I O N

4700 SET-BACK FRONT AXLE CHASSIS

SET BACK AXLE - TRUCK CUM L9 350 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE AIRLINER 46,000# REAR SUSPENSION WITH CHAIN CLEARANCE DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	18,000# FLAT LEAF FRONT SUSPENSION 110 INCH BBC STEEL CONVENTIONAL CAB 5075MM (200 INCH) WHEELBASE 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI 1600MM (63 INCH) REAR FRAME OVERHANG PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW
---	---

			PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	95,069	\$	95,069
EXTENDED WARRANTY		\$	2,090	\$	2,090
DEALER INSTALLED OPTIONS		\$	250	\$	250
CUSTOMER PRICE BEFORE TAX		\$	97,409	\$	97,409

TAXES AND FEES

FEDERAL EXCISE TAX (FET)	\$	(414)	\$	(414)
TAXES AND FEES	\$	0	\$	0
OTHER CHARGES	\$	0	\$	0

TRADE-IN

TRADE-IN ALLOWANCE	\$	(0)	\$	(0)
--------------------	----	-----	----	-----

BALANCE DUE	(LOCAL CURRENCY)	\$	96,995	\$	96,995
-------------	------------------	----	--------	----	--------

COMMENTS:

Projected delivery on ___ / ___ / ___ provided the order is received before ___ / ___ / ___.

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___ / ___ / ___.



Financing that works for you.

See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at Information@dtfoffers.com.

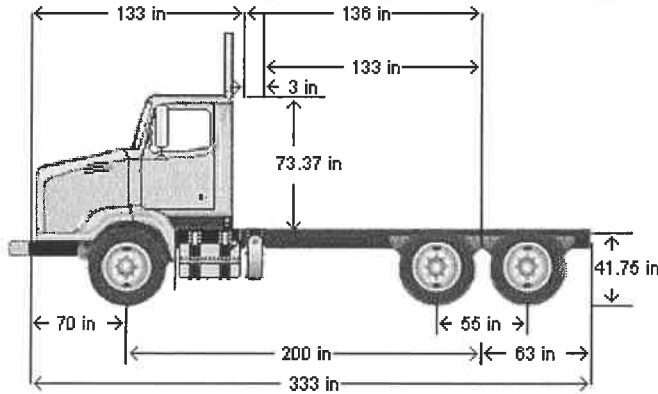
Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at www.daimler-truckfinancial.com.



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D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model.....	4700SB
Wheelbase (545).....	5075MM (200 INCH) WHEELBASE
Rear Frame Overhang (552).....	1600MM (63 INCH) REAR FRAME OVERHANG
Fifth Wheel (578).....	NO FIFTH WHEEL
Mounting Location (577).....	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in).....	0
Maximum Rearward Position (in).....	0
Amount of Slide Travel (in).....	0
Slide Increment (in).....	0
Desired Slide Position (in).....	0.0
Cab Size (829).....	110 INCH BBC STEEL CONVENTIONAL CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPER/CAB
Exhaust System (016).....	RAISED RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

TABLE SUMMARY - DIMENSIONS

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Dimensions	Inches
Bumper to Back of Cab (BBC)	133.2
Bumper to Centerline of Front Axle (BA)	69.9
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	136.5
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	133.5
Back of Cab Protrusions (Exhaust/Intake) (CP)	3.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	199.5
Cab Height (CH)	73.4
Wheelbase (WB)	199.8
Frame Overhang (OH)	63.0
Overall Length (OAL)	332.7
Rear Axle Spacing	55.0
Unladen Frame Height at Centerline of Rear Axle	41.8

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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G V W R

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model.....	4700SB
Cab Size (829).....	110 INCH BBC STEEL CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs).....	18000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs).....	40000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs).....	58000
Expected GCW (lbs).....	0.0
Front Axle (400).....	DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
Front Suspension (620).....	18,000# FLAT LEAF FRONT SUSPENSION
Front Hubs (418).....	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502).....	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS
Front Tires (093).....	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES
Front Brakes (402).....	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536).....	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
Rear Axle (420).....	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE
Rear Suspension (622).....	AIRLINER 46,000# REAR SUSPENSION WITH CHAIN CLEARANCE
Rear Hubs (450).....	CONMET PRESET PLUS PREMIUM IRON REAR HUBS
Rear Disc Wheels (505).....	MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS
Rear Tires (094).....	CONTINENTAL HDR2 11R22.5 14 PLY RADIAL REAR TIRES
Rear Brakes (423).....	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443).....	NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626).....	NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449).....	NO PUSHER OR TAG HUBS
Pusher/Tag Disc Wheels (509).....	NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095).....	NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456).....	NO PUSHER/TAG BRAKES

TABLE SUMMARY - GVWR



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	Front	Rear 1	Rear 2
Axle Component Weight Ratings			
Axles	18000	20000	20000
Suspension	18000	23000	23000
Hubs	23000	26000	26000
Brakes	20000	21000	21000
Wheels	20000	29600	29600
Tires	18180	23360	23360
Power Steering	22000	N/A	N/A
GAWR (per axle)	18000	20000	20000
GAWR (per axle system)	18000		40000
Expected Load (per axle system)	18000		40000
Vehicle GVWR Summary			
Calculated GVWR	58000		
Expected GVWR	58000		
All weights displayed in pounds			

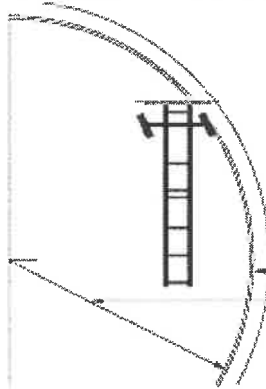
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TURNING RADIUS



Turning radius graphic and data provided strictly for comparisons between model configurations. Weather, road surfaces, and tire treads affect the results. It is strongly suggested that actual vehicles be measured before constructing any roads/driveways using this information. For specific figures regarding your configuration, please contact your CAE representative.

	Dimensions	Tolerance
Wall to Wall Diameter (ft)	80.4	+/- 3.0
Curb to Curb Diameter (ft)	72.0	+/- 3.0
Turning Radius (ft)	35.5	+/- 1.5

VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model..... 4700SB
 Cab Size (829)..... 110 INCH BBC STEEL CONVENTIONAL CAB
 Wheelbase (545)..... 5075MM (200 INCH) WHEELBASE
 Front Tires (093)..... MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES
 Width (in) 12.5
 Front Axle (400)..... DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
 Kingpin Intersection (in)..... 71
 Bumper (556)..... OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203
 Width (in) 96
 Bumper Miter to Front Axle (in) 93.927
 Primary Steering Location (003)..... LH PRIMARY STEERING LOCATION
 Steering Gear (536) TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
 Dual Steering Gear RCH45
 Ram NONE
 Rear Axle (420)..... MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE
 Axle Spacing (624)..... 55 INCH AXLE SPACING

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FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545)..... 5075MM (200 INCH) WHEELBASE
 Frame Rails (546) 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI(546)
 Yield Strength (psi)..... 120000
 Section Modulus (per rail) (cu in).....21.6
 RBM (per rail) (lbf-in).....2592000
 Inner Frame Reinforcement (547)PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION
 Outer Frame Reinforcement (548) : BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	5075MM (200 INCH) WHEELBASE
Frame	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI
Inner Frame Reinforcement	PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION
Outer Frame Reinforcement	BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	21.60
Frame RBM - per rail (lbf-in)	2592000

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



ITY OF ESCANABA
DEPARTMENT OF PUBLIC WORKS

INVITATION TO BID

Monroe
Body Package

DATE: August 12, 2019

ADVERTISED: August 12 - 27, 2019

BID OPENING: August 27, 2019 at 2:00 p.m.
Escanaba City Clerk's Office
410 Ludington Street
Escanaba, MI 49829

SENT TO: NINE (9)

UP International Trucks
1802 North 21st Street
Escanaba, Michigan 49829

U.P. Western Star
P.O. Box 261
Quinnesec, Michigan 49876

Wisconsin Kenworth
P.O. Box 12413
Green Bay, Wisconsin 54307

Freightliner – Eastside, Inc.
107 South Groesbeck
Mt. Clemens, Michigan 48043

Peterbilt Wisconsin
P.O. Box 5305
DePere, Wisconsin 54115

Freightliner
5285 Clay Ave., S.W.
Wyoming, Michigan 49548

Truck Country of Wisconsin
2401 Progress Way
Kaukauna, Wisconsin 54130

Kriete Group
2090 Mid Valley Drive
DePere, Wisconsin 54115

Wolverine Eastside Truck Sales
Groesbeck Highway
Mt. Clemens, Michigan 48043

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART A: CAB AND CHASSIS

MINIMUM SPECIFICATIONS	FURNISHED
ENGINE	
A. DIESEL ENGINE RATED 350 - HP @ 1000 RPM AND 1000 lb.-ft. TORQUE @ 1200 RPM MINIMUM	
B. MEETS 2019 FEDERAL EMISSION STANDARDS WITH UREA – DIESEL EXHAUST FLUID	
C. FUEL FILTER WITH 120 VOLT ELECTRIC PRE-HEATER	
D. HEAVY DUTY OIL COOLER	
E. HEAVY DUTY COOLING SYSTEM	
F. HORIZONTAL EXHAUST SYSTEM WITH VERTICAL TAILPIPE CONFIGURATION OF DIESEL PARTICULATE FILTER SO AS NOT TO INTERFERE WITH THE MOUNTING OF THE DUMP BOX, COMBINATION OIL-FUEL TANK AND UNDERBODY SCRAPER	
G. COOLANT FILTER REPLACEABLE “SPIN-ON”	
H. AIR FILTER DRY TYPE WITH IN CAB FILTER REMINDER	
ELECTRICAL	
A. HEAVY DUTY ALTERNATOR RATED AT 160 AMPERE MINIMUM	
B. BATTERIES, MOUNTED FOR CLEAN FRAME RAILS, IN CAB PREFERRED: <ol style="list-style-type: none"> 1. HEAVY DUTY 12 VOLT BATTERIES 2. EASY ACCESS JUMP START PROVISION 3. SPARE CIRCUITS/SWITCHES/WIRING FOR ROOF MOUNTED STROBES, REAR BOX STROBES, FORWARD CAB GUARD STROBES AND FOR ADDITIONAL CAB MOUNTED PLOW LIGHTS AND LED LIGHT TO SHINE ON REAR PLOW WING WHEN IN USE, IN CAB CONNECTIONS 4. TRUCK ELECTRICAL SYSTEMS SHALL BE SUPPRESSED AND SHALL NOT AFFECT AGENCY RADIO EQUIPMENT 5. BATTERY DISCONNECT SWITCH 	
TRANSMISSION	
A. ALLISION WORLD HD TRANSMISSION 3500 RDS 5-SPEED WIDE RATIO OR EQUIVALENT	
B. PUSH BUTTON ALLISION SHIFT CONTROL – DASH MOUNTED LOCATION OR EQUIVALENT	
C. EXTERNAL FLUID FILTER (SPIN ON)	
D. HEAVY DUTY TRANSMISSION COOLER	
E. TRANSMISSION CONTROL MODULE MOUNTED INSIDE THE CAB SO AS NOT TO BE EXPOSED TO THE OUTSIDE ELEMENTS	
FRAME	
A. HEAVY DUTY STRAIGHT RAIL FULL LENGTH CHANNEL NO LESS THAN 120,000 PSI YIELD STRENGTH	

MINIMUM SPECIFICATIONS	FURNISHED
B. CONVENTIONAL REINFORCEMENT	
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	30k hitch and RV plug
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	
B. GREASABLE DRAG LINK AND TIE ROD ENDS	
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION – 40,000 lb. CAPACITY OR EQUIVALENT	
E. WHEELBASE: 185" – 200"	
F. APPROXIMATELY 134" – 138" CAB TO AXLE <ul style="list-style-type: none"> 1. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX. 	
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX – MODEL # TU-FLO-550 OR EQUIVALENT	
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WITH HEATER OR EQUIVALENT	
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	
TIRES/WHEELS	
A. FRONT <ul style="list-style-type: none"> 1. 315/80 R22.5 18 PLY HUB PILOTED DISCS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
B. REAR <ul style="list-style-type: none"> 1. 11R 22.5 14 PLY HUB PILOTED DISCS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
FUEL TANK AND HYDRAULIC TANK Monroe fuel/oil combo	
B. MINIMUM 50 GALLON DIESEL , FRAME MOUNTED LEFT-HAND RAIL, UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	80 gallons of fuel and 31 gallons of oil behind cab, see attached drawing.

MINIMUM SPECIFICATIONS	FURNISHED
CAB EXTERIOR	
A. CONVENTIONAL GALVANIZED STEEL CAB	
B. ONE PIECE MOLDED RUBBER FLOOR MAT	
C. TILT FORWARD HOOD AND FENDERS WITH BUTTERFLY OPENINGS FOR EASY ACCESS TO THE ENGINE	
D. PASSENGER LOWER DOOR WINDOW	
E. STAINLESS STEEL MIRRORS WITH HEAVY DUTY HARDWARE WITH AUXILIARY CONVEX MIRRORS - HEATED	
F. STAINLESS STEEL DUAL OUTSIDE GRAB HANDLES	
G. DOME LIGHT ACTIVATED BY DOOR SWITCHES	
H. DUAL, HEAVY DUTY ELECTRIC TWO-SPEED WINDSHIELD WIPER WITH INTERMITTENT SPEED CONTROL AND ELECTRIC WASHER	
I. CAB CLEARANCE L.E.D. LIGHTS LOCATED ON OUTER FRONT EDGE OF CAB TOP	
J. 4-WAY HAZARD SWITCH AS REQUIRED TO OPERATE ALL TURN SIGNAL LIGHTS SIMULTANEOUSLY IN A FLASHING MODE WITH A HEAVY DUTY FLASHER	
K. REFLECTORS AS REQUIRED BY MICHIGAN STATE LAW	
L. STANDARD HALOGEN or LED SEALED BEAM HEADLIGHTS	
CAB INTERIOR	
A. HEAVY DUTY HEATER AND DEFROSTER	
B. DRIVER AND PASSENGER SUN VISORS	
C. TILT/TELESCOPIC STEERING WHEEL	
D. AIR SUSPENSION, HIGH BACK DRIVER'S SEAT WITH DUAL ARM RESTS AND NON SUSPENSION, SINGLE PASSENGER SEAT WITH DUAL ARM RESTS	
E. GRAB HANDLES FOR CAB EASY ENTRANCE AND EXIT	
F. AM/FM RADIO	
G. INSTRUMENT AND WARNING SYSTEMS <ul style="list-style-type: none"> 1. SPEEDOMETER, ODOMETER, TACHOMETER, HOUR METER, ENGINE COOLANT TEMPERATURE GAUGE WITH HIGH RECOMMENDED TEMPERATURE WARNING LIGHT & BUZZER, AIR PRESSURE GAUGE WITH LOW – PRESSURE WARNING LIGHT & BUZZER, ENGINE OIL PRESSURE GAUGE WITH LOW – PRESSURE WARNING LIGHT AND BUZZER, TRANSMISSION TEMPERATURE GAUGE, MANIFOLD PRESSURE GAUGE, VOLTMETER AND ENGINE AIR FILTER RESTRICTION GAUGE-IN-DASH MOUNTED FILTER MINDER 	
MISCELLANEOUS	
A. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. ENGINE: 60 MONTHS, 100,000 MILES	

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART B BODY PACKAGE

MINIMUM SPECIFICATIONS	FURNISHED
DUMP BOX Crysteel Select	5 year warranty
A. LENGTH: 14 FEET	14'10"
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH – 62" FRONT, 48" SIDES AND 56" TAILGATE	X
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	X
D. 1/4 " AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR	X
E. 8" I – BEAM CROSSMEMBERLESS UNDERSTRUCTURE	X
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP	X
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE	Integrated into body
H. ONE (1) ½" x 7" OFFSET TAILGATE HINGE PLATE	X
I. AIR TAILGATE RELEASE	X
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS	X
K. GRIPSTRUT WALKRAILS BOTH SIDE	X
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX	X
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES	X
N. GRAB HANDLE ON FRONT DRIVERS SIDE	X
O. DUAL BODY PROPS	X
P. ½ x 10 GA. x 78" CAB SHIELD 100% WELDED	X
Q. BACK UP ALARM	X
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM	X
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUSSES	X
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS	X
U. BOX VIBRATOR	X
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER	X
STANDARD DUMP BOX OPTION COST:	see last page
STAINLESS STEEL DUMP BOX OPTION COST:	see last page
HOIST FOR DUMP BODY Dana trunion mount 6" diameter 4 stage 138" stroke	5 year warranty
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR	X
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING	X
C. THE HOIST SHALL HAVE A ¼" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE	X
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI	X

MINIMUM SPECIFICATIONS	FURNISHED
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	X
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	X
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	X
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNESS OF 80 DEGREES ROCKWELL "B"	X
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	X
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	X
LIGHTS	
A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT: 1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESES 2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESES 3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS' 4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS 5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK	X
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	X
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY Monroe MS4512	
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	X
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	X
C. HARDENED 5" CENTER PIN WITH THREE ¾" MOUNTING BOLTS	X
D. 2 ½" DIAMETER HINGE SHAFT	X
E. (2) HEAVY DUTY SHOCK ABSORBERS	X
F. (2) 3 ½" ACTUATING CYLINDERS	X
G. 400 PSI CUSHION VALVE	X
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	X
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	X
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	X
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	X
L. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
M. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
N. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
O. SOLID ¾" THICK MOUNTING BRACKETS	X

MINIMUM SPECIFICATIONS	FURNISHED
P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	X
REAR MOUNTED FULL TRIP WING Monroe 9' Para-glide full trip rear mount	
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	X
B. PARA -GLIDE WING POST	X
C. CUSTOM HEAVY DUTY WING STOP	X
D. 3/16" TAPERED MOLDBOARD	X
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	X
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	X
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) ¾" ORB	X
H. MANUAL LOCK OUT WITH SAFETY CHAIN	X
I. LIFT CYLINDER FROM REAR UPPER POSITION	X
HYDRAULICS	
A. PUMP <ul style="list-style-type: none"> 1. CAST IRON CONSTRUCTION – FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING 2. 35 GPM AT 2000 RPM 3. DIRCT DRIVE OFF CRANKSHAFT 4. IN-LINE HYDRAULIC FILTER 	X
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB <ul style="list-style-type: none"> 1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB 	X
C. CONTROL SEQUENCE FROM DRIVER <ul style="list-style-type: none"> 1. DUMP BOX 2. UNDERBODY SCRAPER 3. FRONT PLOW 4. REAR MOUNT WING 	X
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	X
E. HYDRAULIC VALVE BANK – GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	X
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	X
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	X
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	Reuse factory bumper per Wendy/Steve
ONE-WAY FRONT PLOW FUNCTION OPTION COST:	see last page
FOUR-WAY FRONT PLOW FUNCTION OPTION COST:	see last page

MINIMUM SPECIFICATIONS

FURNISHED

MINIMUM SPECIFICATIONS	FURNISHED
OPTIONAL FRONT – MOUNTED, SLOTTED TRIP PLOW	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	X
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	X
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	X
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	X
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	X
F. CASTOR TYPE ADJUSTABLE SKIDS	X
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	X
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	X
I. QUICK HITCH	X
OPTIONAL FRONT-MOUNTED PLOW COST:	see last page
TARP Aero 550 electric tarp system	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	X
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	
F.O.B. BODY LOCATIONS OR EQUIVALENT	
A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC.	

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba

Office: (906) 786 - 1842

BIDDER'S PROPOSAL

DATE: 8/23/19

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

\$ <u>69,775.00</u> equipment pricing	OPTIONS for the city to choose from: \$5,613.00 stainless sides/ends/floor in lieu of painted AR450 \$700.00 reversible plow control/valve/lines \$8,260.00 one way plow (MPFA39-52-12-ISCT) \$9,034.00 reversible plow (MP48R12-ISCT) \$948.00 husting truck portion roller pins and plow portion roller kit \$2,299.00 amber/green strobe and plow lights mounted to roof bar \$275.00 two fork/loop shovel holders \$375.00 electric brake control
MAKE: <u>Monroe Truck Equipment</u>	
MODEL: _____	

DELIVERY DATE: 180 days for equipment + 60-90 days after chassis and equipment arrives for upfit

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ Cashiers check for equipment portion supplied by Monroe
(Must be included to qualify)

Submitted By:

FIRM: Monroe Truck Equipment

ADDRESS: 1151 West Main Avenue De Pere WI. 54115

BY: Troy Redfearn

TITLE: District Sales Manager

PRINTED NAME: Troy Redfearn

NOTICE TO BIDDERS

Sealed bids will be received by the City of Escanaba at the office of the City Clerk, on or before 2 p.m. EST, on: TUESDAY, AUGUST 27, 2019.

The bids will be publicly opened and read in Room 101 in the City Hall located at 410 Ludington Street, Escanaba, Michigan at said date and time.

Bidder's proposals, and/or specifications may be obtained from the office of the City Clerk, located at 410 Ludington Street, Escanaba, Michigan, 49829. No bids will be considered unless the proposal and /or specifications (furnished by the City of Escanaba, Michigan), are properly completed and enclosed in a sealed envelope, marked:

ONE (1) NEW TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNT WING

In addition, the City of Escanaba, Michigan will not consider any proposal which has not been received prior to the published time, date and year of bid opening. (FAX transmittals will not be accepted.)

A Certified Check, Cashier's Check, or Bidder's Bond, drawn payable, without condition, to the City of Escanaba, Michigan, in an amount not less than 10% of the bid, will be submitted with each proposal as a guarantee that if the bid is accepted, the bidder will furnish materials or services as stated in his or her proposal. On failure of the successful bidder to fulfill the conditions of his or her proposal, he or she shall forfeit said deposit to the City of Escanaba, Michigan as liquidated damages. The acceptance of the proposal will be contingent upon the bidder's acceptance of this provision.

The City of Escanaba, Michigan reserves the right to reject any or all bids, or any part thereof at its discretion, and to waive any irregularities in the bidding. The City of Escanaba, Michigan may also split bids at its discretion. The City further reserves the right to negotiate directly with any and all bidders concerning any matter related to any bid.

All City of Escanaba, Michigan bids are prepared to afford all vendors the equal opportunity for fair and equitable competition. The City of Escanaba, Michigan assumes no liability or responsibility for any errors or oversights in the preparation and/or publication of bids.

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba
Office: (906) 786 - 1842

**** May need bid bond... check with chassis provider ****

Casper's Truck Equipment

NOTICE TO BIDDERS

Equipment noted in RED

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Assistant Superintendent
Department of Public Works
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Office: (906) 786 - 1842

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F. HORIZONTAL EXHAUST SYSTEM WITH VERTICAL TAILPIPE CONFIGURATION OF DIESEL PARTICULATE FILTER SO AS NOT TO INTERFERE WITH THE MOUNTING OF THE DUMP BOX, COMBINATION OIL-FUEL TANK AND UNDERBODY SCRAPER	
G. COOLANT FILTER REPLACEABLE "SPIN-ON"	
H. AIR FILTER DRY TYPE WITH IN CAB FILTER REMINDER	
ELECTRICAL	
A. HEAVY DUTY ALTERNATOR RATED AT 160 AMPERE MINIMUM	
B. BATTERIES, MOUNTED FOR CLEAN FRAME RAILS, IN CAB PREFERRED: <ol style="list-style-type: none"> 1. HEAVY DUTY 12 VOLT BATTERIES 2. EASY ACCESS JUMP START PROVISION 3. SPARE CIRCUITS/SWITCHES/WIRING FOR ROOF MOUNTED STROBES, REAR BOX STROBES, FORWARD CAB GUARD STROBES AND FOR ADDITIONAL CAB MOUNTED PLOW LIGHTS AND LED LIGHT TO SHINE ON REAR PLOW WING WHEN IN USE, IN CAB CONNECTIONS 4. TRUCK ELECTRICAL SYSTEMS SHALL BE SUPPRESSED AND SHALL NOT AFFECT AGENCY RADIO EQUIPMENT 5. BATTERY DISCONNECT SWITCH 	
TRANSMISSION	
A. ALLISION WORLD HD TRANSMISSION 3500 RDS 5-SPEED WIDE RATIO OR EQUIVALENT	
B. PUSH BUTTON ALLISION SHIFT CONTROL – DASH MOUNTED LOCATION OR EQUIVALENT	
C. EXTERNAL FLUID FILTER (SPIN ON)	
D. HEAVY DUTY TRANSMISSION COOLER	
E. TRANSMISSION CONTROL MODULE MOUNTED INSIDE THE CAB SO AS NOT TO BE EXPOSED TO THE OUTSIDE ELEMENTS	
FRAME	
A. HEAVY DUTY STRAIGHT RAIL FULL LENGTH CHANNEL NO LESS THAN 120,000 PSI YIELD STRENGTH	

Casper's Truck Equipment

MINIMUM SPECIFICATIONS	FURNISHED
B. CONVENTIONAL REINFORCEMENT	
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	Yes, Casper's
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	Yes, Casper's
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	Yes, Casper's
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	
B. GREASABLE DRAG LINK AND TIE ROD ENDS	
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION – 40,000 lb. CAPACITY OR EQUIVALENT	
E. WHEELBASE: 185" – 200"	
F. APPROXIMATELY 134" – 138" CAB TO AXLE <ol style="list-style-type: none"> 1. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX. 	
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX – MODEL # TU-FLO-550 OR EQUIVALENT	
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WITH HEATER OR EQUIVALENT	
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	
TIRES/WHEELS	
A. FRONT <ol style="list-style-type: none"> 1. 315/80 R22.5 18 PLY HUB PILOTED DISCS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
B. REAR <ol style="list-style-type: none"> 1. 11R 22.5 14 PLY HUB PILOTED DISCS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
FUEL TANK AND HYDRAULIC TANK Hydraulic & Fuel Tank behind cab	
B. MINIMUM 50 GALLON DIESEL , FRAME MOUNTED LEFT-HAND RAIL UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	steel not stainless steel

Casper's Truck Equipment

MINIMUM SPECIFICATIONS	FURNISHED
CAB EXTERIOR	
A. CONVENTIONAL GALVANIZED STEEL CAB	
B. ONE PIECE MOLDED RUBBER FLOOR MAT	
C. TILT FORWARD HOOD AND FENDERS WITH BUTTERFLY OPENINGS FOR EASY ACCESS TO THE ENGINE	
D. PASSENGER LOWER DOOR WINDOW	
E. STAINLESS STEEL MIRRORS WITH HEAVY DUTY HARDWARE WITH AUXILARY CONVEX MIRRORS - HEATED	
F. STAINLESS STEEL DUAL OUTSIDE GRAB HANDLES	
G. DOME LIGHT ACTIVATED BY DOOR SWITCHES	
H. DUAL, HEAVY DUTY ELECTRIC TWO-SPEED WINDSHIELD WIPER WITH INTERMITTENT SPEED CONTROL AND ELECTRIC WASHER	
I. CAB CLEARANCE L.E.D. LIGHTS LOCATED ON OUTER FRONT EDGE OF CAB TOP	
J. 4-WAY HAZARD SWITCH AS REQUIRED TO OPERATE ALL TURN SIGNAL LIGHTS SIMULTANEOUSLY IN A FLASHING MODE WITH A HEAVY DUTY FLASHER	
K. REFLECTORS AS REQUIRED BY MICHIGAN STATE LAW	
L. STANDARD HALOGEN or LED SEALED BEAM HEADLIGHTS	
CAB INTERIOR	
A. HEAVY DUTY HEATER AND DEFROSTER	
B. DRIVER AND PASSENGER SUN VISORS	
C. TILT/TELESCOPIC STEERING WHEEL	
D. AIR SUSPENSION, HIGH BACK DRIVER'S SEAT WITH DUAL ARM RESTS AND NON SUSPENSION, SINGLE PASSENGER SEAT WITH DUAL ARM RESTS	
E. GRAB HANDLES FOR CAB EASY ENTRANCE AND EXIT	
F. AM/FM RADIO	
G. INSTRUMENT AND WARNING SYSTEMS <ol style="list-style-type: none"> 1. SPEEDOMETER, ODOMETER, TACHOMETER, HOUR METER, ENGINE COOLANT TEMPERATURE GAUGE WITH HIGH RECOMMENDED TEMPERATURE WARNING LIGHT & BUZZER, AIR PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT & BUZZER, ENGINE OIL PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT AND BUZZER, TRANSMISSION TEMPERATURE GAUGE, MANIFOLD PRESSURE GAUGE, VOLTMETER AND ENGINE AIR FILTER RESTRICTION GAUGE-IN-DASH MOUNTED FILTER MINDER 	
MISCELLANEOUS	
A. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. ENGINE: 60 MONTHS, 100,000 MILES	

Casper's Truck Equipment

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

**PART B
BODY PACKAGE**

MINIMUM SPECIFICATIONS

FURNISHED

DUMP BOX		
A. LENGTH: 14 FEET	Bibeau BMT	Yes
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH – 62" FRONT, 48" SIDES AND 56" TAILGATE	57 1/2"-58" tailgate	Yes
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	tailgate is 1/4"	Yes
D. 1/4 " AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR		Yes
E. 8" I – BEAM CROSSMEMBERLESS UNDERSTRUCTURE		Yes
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP		Yes
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE		Yes
H. ONE (1) 1/2" x 7" OFFSET TAILGATE HINGE PLATE		Yes
I. AIR TAILGATE RELEASE		Yes
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS		Yes
K. GRIPSTRUT WALKRAILS BOTH SIDE		Yes
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX		Yes
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES		Yes
N. GRAB HANDLE ON FRONT DRIVERS SIDE		Yes
O. DUAL BODY PROPS		Yes
P. 1/2 x 10 GA. x 78" CAB SHIELD 100% WELDED	24" x 78"	Yes
Q. BACK UP ALARM		Yes
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM		Yes
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUS		Yes
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS		Yes, per your specs above
U. BOX VIBRATOR		Yes
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER		Yes, Betts weather tight
STANDARD DUMP BOX OPTION COST:		
STAINLESS STEEL DUMP BOX OPTION COST:		
HOIST FOR DUMP BODY		
Mailhot G3-120-5.3		
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR		Yes
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING		Yes
C. THE HOIST SHALL HAVE A 1/4" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE		Yes
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI		Yes

Casper's Truck Equipment

MINIMUM SPECIFICATIONS	FURNISHED
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	Yes
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	Yes
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	Yes
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNESS OF 80 DEGREES ROCKWELL "B"	Yes, exceeds
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	Yes
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	
LIGHTS	
A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT: <ol style="list-style-type: none"> 1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS' 4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS 5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK 	Maxima heated LED Whelen Fenix 12" signal x 2 Yes
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	Yes
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY Henderson	
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	Yes
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	Yes
C. HARDENED 5" CENTER PIN WITH THREE ¾" MOUNTING BOLTS	Yes
D. 2 ½" DIAMETER HINGE SHAFT	Yes
E. (2) HEAVY DUTY SHOCK ABSORBERS	Yes
F. (2) 3 ½" ACTUATING CYLINDERS	Yes
G. 400 PSI CUSHION VALVE	Yes
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	Yes
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	Yes
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	Yes
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	Yes
L. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	Yes
M. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	Yes
N. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	Yes
O. SOLID ¾" THICK MOUNTING BRACKETS	Yes

MINIMUM SPECIFICATIONS	FURNISHED
P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	Yes
REAR MOUNTED FULL TRIP WING Universal 9Ft Uni-Tilt Rear Mount	
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	Yes
B. PARA -GLIDE WING POST Uni-Tilt, functions like paraglide system	Yes
C. CUSTOM HEAVY DUTY WING STOP	Yes
D. 3/16" TAPERED MOLDBOARD	Yes
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	Yes
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	Yes
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) 3/4" ORB	Yes
H. MANUAL LOCK OUT WITH SAFETY CHAIN	Yes
I. LIFT CYLINDER FROM REAR UPPER POSITION	Yes
HYDRAULICS Force America Hydraulic System	
A. PUMP <ul style="list-style-type: none"> 1. CAST IRON CONSTRUCTION – FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING 2. 35 GPM AT 2000 RPM 3. DIRCT DRIVE OFF CRANKSHAFT 4. IN-LINE HYDRAULIC FILTER 	Yes
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB <ul style="list-style-type: none"> 1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB 	Yes
C. CONTROL SEQUENCE FROM DRIVER <ul style="list-style-type: none"> 1. DUMP BOX 2. UNDERBODY SCRAPER 3. FRONT PLOW 4. REAR MOUNT WING 	Yes
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	Yes
E. HYDRAULIC VALVE BANK – GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	Yes
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	Yes
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	Yes
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	Yes
ONE-WAY FRONT PLOW FUNCTION OPTION COST:	12,415.00 installed
FOUR-WAY FRONT PLOW FUNCTION OPTION COST:	14,353.00 installed

Casper's Truck Equipment

MINIMUM SPECIFICATIONS	FURNISHED
OPTIONAL FRONT – MOUNTED, SLOTTED TRIP PLOW Henderson	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	Yes
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	Yes
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	Yes
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	Yes
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	Yes
F. CASTOR TYPE ADJUSTABLE SKIDS	Yes
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	Yes
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	Yes
I. QUICK HITCH	Yes
OPTIONAL FRONT-MOUNTED PLOW COST:	
TARP	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	Mountain Tarp System Yes
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	Yes
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	Yes
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	Yes
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	Yes
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	Yes, Municipal discount
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	

Casper's Truck Equipment

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	Casper's provided Equipment, 1 year warranty from in service date
F.O.B. BODY LOCATIONS OR EQUIVALENT	
A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC.	Yes

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
 Assistant Superintendent
 Department of Public Works
 City of Escanaba

Office: (906) 786 - 1842

\$72,012.00 Total Without One Way Plow Option

\$84,427.00 Total With One Way Plow Option

\$72,709.00 Total Without Four Way Plow Option

\$87,062.00 Total With Four Way Plow Option

BIDDER'S PROPOSAL

DATE: _____

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

\$ _____

MAKE: _____

MODEL: _____

DELIVERY DATE: _____

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ _____
(Must be included to qualify)

Submitted By:

FIRM: _____

ADDRESS: _____

BY: _____

TITLE: _____

PRINTED NAME: _____

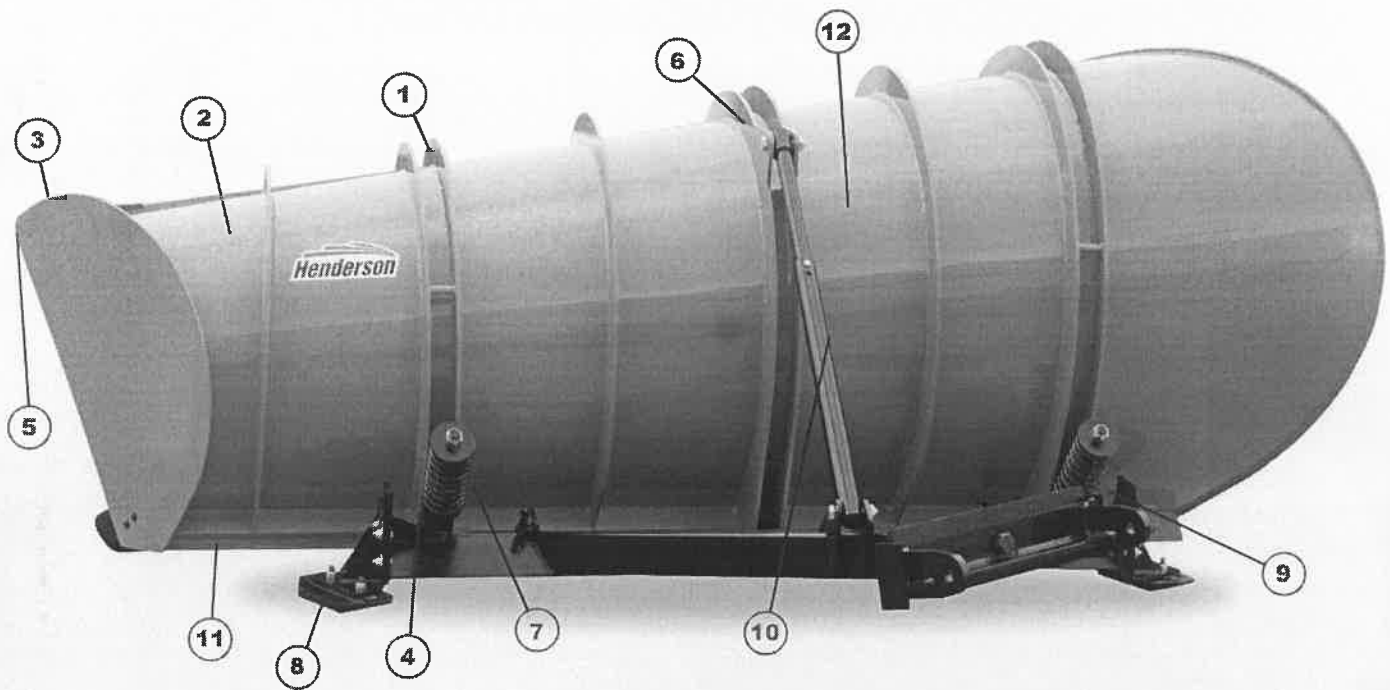
Henderson

OWP PLOW ONE-WAY SNOW PLOW

Henderson Helps You Move Snow & Ice Fast, Clean & with Great Efficiency

Rural and interstate clearing are a "walk in the park" with the Henderson One-Way Snow Plows. Designed from the pavement up by the people who make world class spreaders, pre-wetting equipment and the legendary MARK Series dump bodies. Henderson snow plows are state-of-the-art and the One-Way Snow Plow follows in that tradition.

They are engineered and built for rugged use at high speeds beginning with the roll formed moldboard that is virtually self cleaning. Snow and ice are rolled to the side like surf waves...smoothly and with less strain on your trucks and budgets. Its unitized construction assures a stable and rigid moldboard to provide years of performance.



- 1 Nine one-piece 1/2" x 3-1/2" flame cut ribs provide strong backing for the moldboard resulting in great rigidity.
- 2 Moldboard is designed to "roll" snow and ice to the side while minimizing drift for improved driver visibility.
- 3 Roll formed moldboard is smoother than brake formed for better material flow and is self cleaning.
- 4 Two pivot points and center roller between moldboard and push frame distribute push force evenly.

- 5 Moldboard height measures from the road surface to inside of radius.
- 6 All parts are continuous welded for rugged use, to eliminate corrosion and to provide a longer life cycle.
- 7 Safe tripping action at all speeds and under varying conditions is provided by two adjustable slotted trip compression springs and center roller.
- 8 Adjustable cast wear shoes and brackets ensure correct push frame support when moldboard trips.

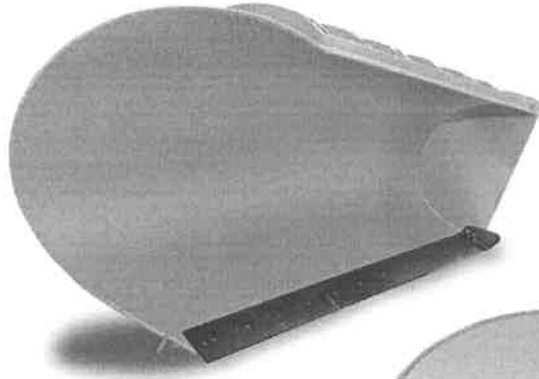
- 9 Two position adjustments for standard and carbide cutting edge attack angle to meet all snow and ice removal conditions.
- 10 Adjustable stabilizing arm has shear pin protection and transfers push forces to the push frame.
- 11 Available in two cutting path widths.
- 12 Moldboard is powder coated with a Highway Orange. Push frame assembly and hitch components are powder coated in black.

The Dependable Ones™

All photos shown with optional equipment.

FEATURES & SPECIFICATIONS

FLOW MODEL	30"-53"-11'	29"-54"-12'	40"-63"-11'	39"-64"-12'
MOLDBOARD	10 GA.	10 GA.	10 GA.	10 GA.
LENGTH OF MOLDBOARD	14' 3"	15' 3"	14' 3"	15' 3"
LENGTH OF CUTTING EDGE	11'	12'	11'	12'
CUTTING WIDTH	116"	126"	116"	126"
HEIGHT OF MOLDBOARD @ NOSE END	30"	29"	40"	39"
HEIGHT OF MOLDBOARD @ DISCHARGE END	53"	54"	63"	64"
APPROXIMATE WEIGHT OF MOLDBOARD & PUSH FRAME	1,850 LB.	1,910 LB.	1,970 LB.	2,030 LB.

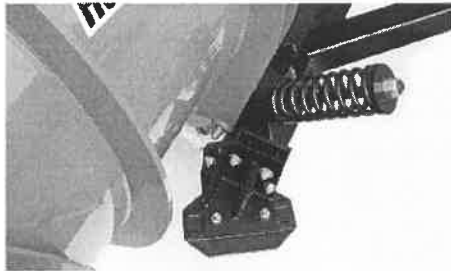
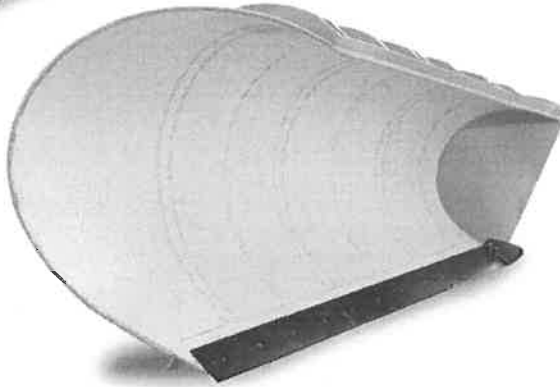


STANDARD

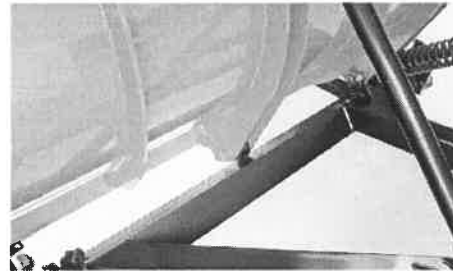
Our roll formed moldboard has an integral shield to minimize drift, improving driver visibility. Material rolls to the side in surf-like fashion, smoothly without clogging. Includes heavy duty cutting edge.

OPTIONAL

304 stainless steel moldboard option available. Three beneficial properties that stainless steel provides are: eliminates corrosion, more abrasion and wear resistant and better sliding characteristics.



Two adjustable shoes assure proper push frame support. Wear shoe is bolt-on for easy replacement. Two slotted trip springs adjust easily for changing conditions. Two position adjustments for proper attack angle, 45° for standard cutting edge or 30° for carbide cutting edge.



Center roller mechanism enhances slotted trip performance.

Consult your local Henderson Distributor for all available options.

UNITIZED CONSTRUCTION

All components are continuous welded for maximum strength to give the entire plow a "unitized" architecture and to reduce corrosion. The Henderson SNOWFOE Series Snow Plows will be in service long after others have given up.

SPECIFICATIONS

MOLDBOARD

- 10 ga. rolled moldboard with nine 1/2" one-piece flame cut ribs
- Continuous welded moldboard
- Gusseted 6" x 4" x 3/4" bottom angle
- 2-1/2" x 2-1/2" x 3/8" top angle
- Two adjustable slotted trip assemblies and one center roller
- Two adjustable cast wear shoes, moldboard wear shoe on discharge end and nose shoe standard
- Adjustable stabilizing arm with safety shear pin
- 1/2" one-piece cutting edge with AASHO center punching standard

PUSH FRAME

- 94" push frame with two slotted trip lugs and center roller
- 6" x 6" x 1/2" main push angle
- 5" x 5" x 1/4" tubular push members

OPTIONS

- Sight Markers
- Rubber Snow Deflectors
- Carbide Cutting Edge
- Carbide Rectangular Skid Shoe
- 3/16" Steel Moldboard
- 304 Stainless Steel Moldboard

ADDITIONAL PRODUCTS

- Snow Plows
- Snow Plow Wings
- Underbody Scrapers
- Hitches
- Sand & Salt Spreaders
- Anti-Ice & De-Icing Systems
- Pre-Wetting & Slurry Systems
- Combination Bodies
- Dump Bodies
- Live Bottom Trailers
- And Much More...

COMPLETE MUNICIPAL SNOW & ICE CONTROL SOLUTIONS

PLOWS • WINGS • UNDERBODY SCRAPERS • SAND & SALT SPREADERS • STANDARD & PRECISION SPINNERS • DUMP BODIES • COMBINATION (MUNICIPAL) BODIES
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Formerly NJFA
CONTRACT: 080114-HPI



UNIVERSAL

ALL HYDRAULIC WING UNI-TILT FRONT POST



UNIVERSAL
MODEL AHW/UTF 10' TE WING
(OPTIONAL TRIP EDGE SHOWN)

STANDARD FEATURES:

- FRONT MOUNTED
- ALL HYDRAULIC, UNI-TILT POST DESIGN
- 8'/9'/10' STANDARD LENGTHS
- 30" MOLDBOARD HEIGHT (see options)
- 3/16" MOLDBOARD WITH 8 RIBS FULLY WELDED
- 3-1/2" x 10" TOE CYLINDER, DOUBLE ACTING WITH 2" NITRIDED ROD
- 4" x 13" DECEL HEEL CYLINDER, DOUBLE ACTING WITH 2" NITRIDED ROD
- 1-1/2" MAIN PIVOT BOLT
- HEAVY DUTY SLAB, REINFORCED 1" THICK
- 12"+ FLOAT AT TOE OF WING
- 3/4" x 4" x 4" LOWER ANGLE WITH REINFORCING GUSSETS (1/4"x 4"x 7" - 12" ON CENTER)
- 5/8" x 8" CUTTING BLADE WITH A.A.S.H.O. STANDARD PUNCHING
- FULL HYDRAULIC POWER UP - POWER DOWN
- HEAVY DUTY ADJUSTABLE SPRING LOADED PUSH BEAM WITH SHEAR PIN
- BEST VISIBILITY OF WINGS OF THIS STYLE
- ONE PASS CLEARING
- REDUCES THE GAP BETWEEN THE PLOW AND WING COMPARED TO TRAILING LINK POSTS

UNIVERSAL TRUCK EQUIPMENT, INC
N1592I SCHUBERT RD GALESVILLE WI 54630
PHONE 608-539-4600 / FAX 608-539-4800
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WING TUCKS IN CLOSE TO CAB



UNI-TILT POST

SPECIFICATIONS	8'	9'	10'
OVERALL LENGTH	8'3"	9'3"	10'
OVERALL HEIGHT FRONT TO REAR	30"	30"	30"
PUSH BAR	1 Heavy Duty Adjustable Spring	1 Heavy Duty Adjustable Spring	1 Heavy Duty Adjustable Spring
ADDITIONAL SPACE CLEARED	50" - 80"	60" - 90"	70" - 100"
AVERAGE CLEARANCE UNDER RAISED WING	16" - 17" Front 92" Rear	16" - 17" Front 98" Rear	16" - 17" Front 105" Rear
WEIGHT OF WING (WITH MOUNT KIT)	504# (1608#)	566# (1670#)	628# (1732#)

OPTIONS:

- TRIP CUTTING EDGE IN LIEU OF STANDARD NON-TRIP MOLBOARD
- FULL MOLDBOARD TRIP WITH TWO TELESCOPING PUSH ARMS IN LIEU OF STANDARD
- DUAL PUSH ARMS WITH STANDARD MOLDBOARD (NO TRIP)
- NITROGEN CHARGED CYLINDER IN LIEU OF SINGLE PUSH ARM
(PERMITS ADJUSTABLE CUTTING PATH)
- TAPERED MOLDBOARD FROM 30" TO 38"
- CARBIDE CUTTING BLADES
- PLOW END MARKER
- CURB SHOE
- CUTTING EDGE SHOES
- ADJUSTABLE AIR BAG KIT WITH IN-CAB CONTROLLER


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BLACK EDITION



APPLETON 780 Randolph Drive Appleton, WI 54913 P: 920-897-1111 F: 920-897-1122	MILWAUKEE 12655 W Silver Spring Road Butler, WI 53007 P: 262-944-8404 F: 800-261-0383	WAUSAU 5200 Stewart Avenue Wausau, WI 54401 P: 715-258-0288 F: 800-261-0383
---	--	--

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PREMIUM DUMP BODIES

Dibeau®

▶ QUALITY, INTEGRITY AND INNOVATIVE DESIGN

INCREASE YOUR VERSATILITY | PROFITABILITY

Bibeau is better! HERE'S why :

▶ BIBEAU DUMP BODIES ARE BETTER BY DESIGN! ALL BIBEAU DUMP BODIES ARE CROSSMEMBERLESS AND HAVE BEEN FOR ALMOST 50 YEARS.

MORE PROFIT Lighter weight = more payload.

LONGER LIFE CYCLE = No floor washboard (cause of premature wear and tear).

FEWER DINGS AND DENTS = The floor flexes upon impact.

VERSATILITY = Rugged work one day Haul with maximum payload the next.

CLEAN UNDER-STRUCTURE = No material hang-up, less rust and corrosion.

BIBEAU DUMP BODIES OFFER YOU EVEN MORE!

- Sides are spring-loaded to better handle the load stress.
- Built-in conduits for easy hook-up of heat.
- The empty body rests on rubber shock-absorbing bumpers.
- Lower mounting height, result in more stability.
- Smaller doghouse reduces material hang-up, helps with weight distribution.
- Trunion-mounted hoist offers additional stability.
- Door hinges specifically designed to prevent sagging due to linkage wear.
- Reliable "over-center" type door latching system ready for air actuation.
- Hoist brackets compatible with Mallhot and Hyva hoists.



BIBEAU DUMP BODIES ARE BUILT TO LAST AND LOOK GOOD FOR A LONG TIME!

- Built exclusively with the best quality raw material.
- Welds are continuous throughout.
- Shot blasted and primed in a controlled environment.

**Consistency
you can trust!**

Bibeau's innovative Tru-weight is already 10 years old! Since the introduction of this program, each Bibeau body continues to be individually weighed at the final stage inspection. To ensure precision, we use a sensitive scale certified within 10 pounds!



Laser cutting technology providing outstanding precision.



Welds are continuous throughout.



Shot blasted in a controlled environment.



Primed and inspected to ensure quality consistency.



Sides are spring-loaded to better handle the load stress.



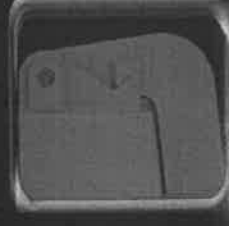
Dump body rests on rubber bumpers preventing rattles when empty



Built-in conduits for easy hook-up of heat.



Door hinges specially designed to prevent sagging due to linkage wear.



BFL SERIES

NEXT GENERATION

Next Generation

The new BFL takes versatility to yet another level. Its innovative design combined to the toughest steel the industry has to offer, put the BFL series in an unparalleled category of light weight and ruggedness.



Dog house
12" deep.

The two-piece formed
top rail providing long
lasting strength*

Wider rear posts.

*BFL-S
Illustrated with options
Illustrated as reference only

The smooth sides (no post and/or horizontal bends) have a greater capability to flex. They can absorb more energy before showing nasty dents.

Wider rub rails
extending width
to 99" O.D.

See back cover for BFL-P
(with side posts)

STANDARD SIZES

Body lengths :	13'0" to 22'0"
Side heights :	36" to 60"
Door heights :	42" to 66"
Hoist bracket :	30t to 50t (Front trunion mount)
Capacity :	8 to 30 cubic yards
approx. weight :	3930 lbs (based on 15'0" x 48" x 60")

TECHNICAL INFORMATION

Construction	Material	BFL-P (with side posts)	BFL-S
Sides :	AR500	1/8"	5/32"
Front :	AR500	1/8"	1/8"
Floor :	AR450	3/16"	3/16"
Door :	AR450	3/16"	3/16"
Longsills :	100,000 min/yield	3/16"	3/16"

Other sizes may also be available. For more information, call Bibeau® or your nearest Bibeau distributor

BMT SERIES

NEXT GENERATION

Next Generation

The new BMT is without a doubt innovative and adapted to the new industry standards. Built with the highest steel quality combined with finest engineering knowledge. Bibeau's BMT series is built to fulfill your toughest needs.

The single-panel tailgate design, provides a high impact resistance factor while maintaining a higher flex capability.

The two-piece formed top rail providing long lasting strength*

Dog house 12" deep.

Wider rear posts.

Wider rub rails extending width to 99" O.D.

The smooth sides (no post and/or horizontal bends) have a greater capability to flex. They can absorb more energy before showing nasty dents.

See back cover for BMT-P with side posts

*BMT-S illustrated with options illustrated as reference only

STANDARD SIZES

Body lengths :	13'0" to 22'0"
Side heights :	36" to 60"
Door heights :	42" to 66"
Hoist bracket :	30t to 50t (Front trunion mount)
Capacity :	8 to 30 cubic yards
approx. weight :	4645 lbs* (based on 15'0" x 48" x 60")

TECHNICAL INFORMATION

Construction	Material	BMT-P (with side posts)	BMT-S
Sides :	AR450	3/16"	3/16"
Front :	AR450	3/16"	3/16"
Floor :	AR450	1/4"	1/4"
Door :	AR450	1/4"	1/4"
Longsills :	100,000 min/yield	1/4"	1/4"

Other sizes may also be available. For more information, call Bibeau® or your nearest Bibeau distributor



Dump body illustrated with options

EL-188
and
EL-250

Bibeau

"M"®
Series



Dump body illustrated with options

If your application requires an elliptical design, the EL series built of AR450 is for you.

With its 3/16" body shell, the EL-188 maximizes the payload/strength ratio. As for the EL-250, its 1/4" construction significantly increases its capability to resist abuse.

Standard sizes

Body lengths :	13'0" to 22'0"
Side heights :	48" to 60"
Door heights :	54" and 66"
Hoist bracket :	30t to 50t (Front trunion mount)
Capacity :	8 to 30 cubic yards
approx. weight :	3996 lbs (EL-188) 4723 lbs (EL-250) <small>(based on 15'0" x 48" x 60")</small>

Getting it done for less!

Not all applications require the "heavy duty" factor.

The "M" series could be the right body for you.

The 1/4" AR200 floor provides for a better than average wear & tear factor.

Standard sizes

Body lengths :	12'0" to 22'0"	Side heights :	48" to 60"
Door heights :	42" to 66"		
Hoist bracket :	30t to 50t		(Front trunion mount)
Capacity :	8 to 30 cubic yards		
approx. weight :	4870 lbs (M)		<small>(based on 15'0" x 48" x 60")</small>

TECHNICAL INFORMATION

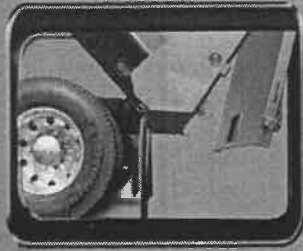
Construction	Material	EL-188	EL-250
Sides :	AR450	3/16"	1/4"
Front :	AR500	1/8"	3/16" (AR450)
Floor :	AR450	3/16"	1/4"
Door :	AR450	3/16"	1/4"
Longsills :	100,000 min/yield	3/16"	1/4"

TECHNICAL INFORMATION

Construction	Material	M Series
Sides :	gr50	3/16"
Front :	gr50	3/16"
Floor :	AR200	1/4"
Door :	gr50	1/4"
Longsills :	gr50	1/4"

Other sizes may also be available. For more information, call Bibeau® or your nearest Bibeau distributor

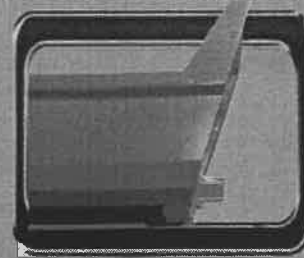
▶ CUSTOMIZE YOUR DUMP BODIES WITH OUR OPTIONS AND ACCESSORIES



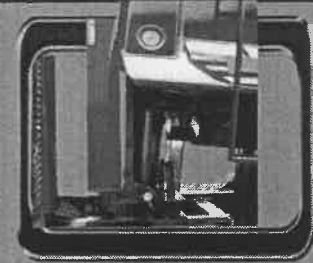
45 degree bumper



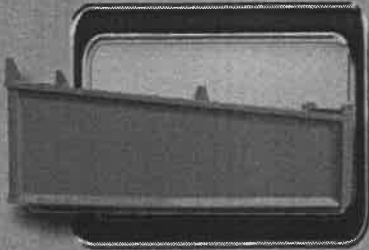
Hi-lift



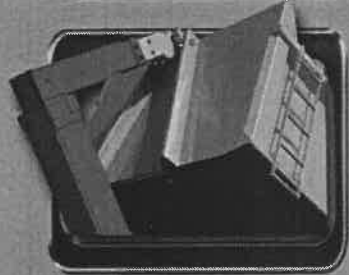
Sloped Front



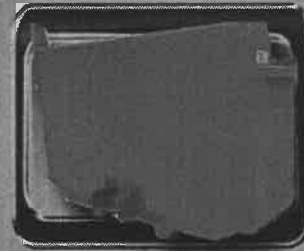
Slim tank



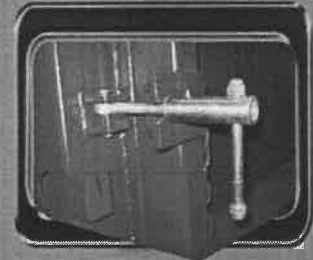
Tapered sides



Hook lift / Roll-Off



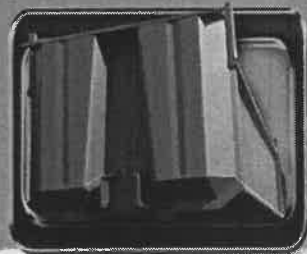
Flat front



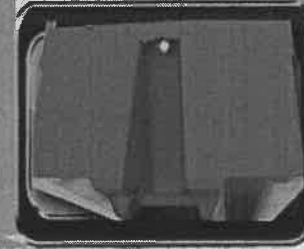
Twist locks



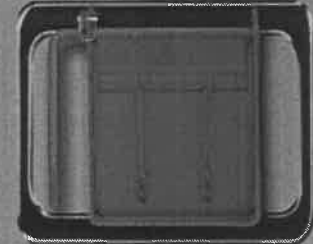
Barn door



Front cut corners



Pin-to-pin



Coal (grain) door

Options and Accessories :

- 45 degree bumper
- "Hi-lift" tailgate
- Barn door (swing gate)
- Door rubber seal
- Front cut corners

- Coal door
- Complete tarp systems
- Floor and side overlays
- Cab shield 12" to 36"
- Asphalt apron

- Flat front (no doghouse)
- Top rail access
- Pin-to-pin cylinder mount
- Tapered sides
- Installation kit, hardware and parts

- Inside steps
- Ladder
- LED light kits
- Thermostatically controlled stainless steel heat kits
- Slim tank

➤ OPTIONS

	OPTIONS	«M»	ELLIPTICAL	BFL	BMT
DOOR	Sloped gate (std 8")	STD	STD	STD	STD
	Straight gate	○	○	○	○
	Barn door (swing gate)	○	○	○	○
	"Hi-lift" tailgate	○	○	○	○
	Double-acting tailgate	○	○	○	○
	Automatic door	○	○	○	○
	Manual door opening	○	○	○	○
	Door rubber seal	○	○	○	○
	12" slope	○	○	○	○
FRONT	Sloped Front	○	○	○	○
	Flat front (no doghouse)	○	○	○	○
	Pin-to-pin cylinder mount	○	○	○	○
	Front cut corners	○	○	○	○
SIDES	Slim tank	○	○	○	○
	Smooth sides	○	STD	STD BFL-S	STD BMT-S
	Side posts	STD	○	STD BFL-P	STD BMT-P
OTHER	Tapered sides (60" to 48")	○	○	○	○
	Extra light holes (rear posts)	○	○	○	○
	102" wide	○	○	○	○
	45 degree bumper	○	○	○	○
	AR450 liner	○	○	○	○
	Installed coal door	○	○	○	○
	One-piece AR450 floor	○	○	STD	STD
	Roll-off (A frame mounted)	○	○	○	○
6" or 10" longills	○	○	○	○	



IMPORTANT: Certain manufacturing options are not compatible with one another. For more information, call BIBEAU or your nearest BIBEAU distributor.

Not available



Optional



Standard

STD



BMT P

see specifications p.2



TRAILER TUBS



BFL P

see specifications p.3



ALSO AVAILABLE: CLASS 1 TO 7 TRUCK BODY BROCHURE

WWW.GROUPEBIBEAU.COM

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Henderson

RSPST PLOW

REVERSIBLE SNOW PLOW - SLOTTED TRIP

Henderson Put Your Snow & Ice Control Program in the Fast Lane

The Henderson Snoefoe Slotted Trip Reversible snow plow is designed to operate with a much flatter cutting edge angle, letting you drive at a higher rate of speed, much like the Snoefoe One-way plow. It can be pinned in any of the five positions from a flat 35° off vertical, to 32°, 29°, 25.5° and 22.5°. It has

a shear pin operation to allow for the moldboard to pivot ahead of vertical so that the cutting edge can ramp up and over large obstacles. All of these features make this plow one of the safest available. For trucks plowing faster with higher GVW's, this plow is a must!



- Integral moldboard shield casts snow without blowing over the top, to improve driver's visibility.
- Compression springs won't weaken over time with continuous use.
- 35° cutting edge angle picks up snow faster and rolls it for better casting.
- Slotted trip rocks back when tripping over obstacles.
- Slotted trip won't dig in or dump snow when tripping or traversing soft spots in the road.
- Shear bolt stabilizer arm has 5 adjustable angles: 35°, 32°, 29°, 25.5° and 22.5°.
- Shear bolt stabilizer arm shears to allow moldboard to fully trip when contacting large objects (bridge rails, etc.)

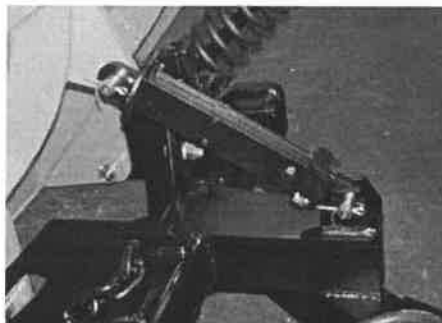
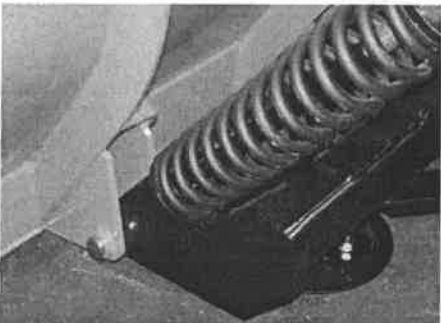
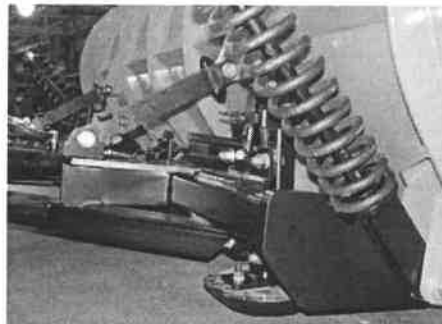
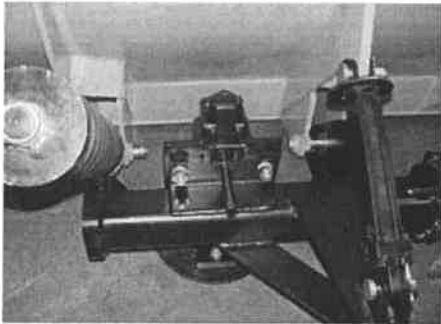
The Dependable Ones™

All photos shown with optional equipment.

FEATURES & SPECIFICATIONS

SPECIFICATIONS

FLOW MODEL	LENGTH	HEIGHT	CUTTING PATH @35°	APPROX. WT. (lbs.)
SLT-RSP-10-36-IS	10'	36"	98"	1750
SLT-RSP-10-42-IS	11'	42"	98"	1760
SLT-RSP-10-48-IS	10'	48"	98"	1790
SLT-RSP-11-36-IS	11'	36"	108"	1815
SLT-RSP-11-42-IS	11'	42"	108"	1830
SLT-RSP-11-48-IS	11'	48"	108"	1860
SLT-RSP-12-36-IS	12'	36"	118"	1875
SLT-RSP-12-42-IS	12'	42"	118"	1890
SLT-RSP-12-48-IS	12'	48"	118"	1925



Spring and slotted trip assembly fully attached to push frame.

Adjustable pitch radius arm.

UNITIZED CONSTRUCTION

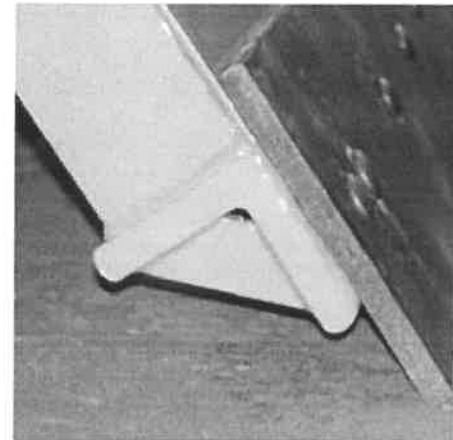
All components are continuous welded for maximum strength to give the entire plow a "unitized" architecture and to reduce corrosion. The Henderson Snowfoe series will be in service long after others have given up.

MOLDBOARD

- 10-GA Grade 50 rolled 18" moldboard with 1/2" thick one-piece flame-cut ribs
- Continuous welded moldboard
- Gusseted 4" x 4" x 3/4" bottom angle reinforced with 6" bar stock
- 3.5" x 2.5" x 3/8" top angle with drain holes to allow moisture to escape
- Attack angle is 22.5°, 25.5°, 29°, 32° and 35°
- Two external compression spring assemblies for moldboard slotted trip
- 5/8" x 8" one-piece cutting edge with AASHO top punching is standard

OPTIONS

- 3/16" moldboard
- Stainless steel moldboard sheets
- Sight markers
- Rubber snow deflectors
- Carbide cutting edge
- Screw adjustable skid shoes



4" x 4" x 3/4" fully reinforced bottom angle

COMPLETE MUNICIPAL SNOW & ICE CONTROL SOLUTIONS

PLOWS • WINGS • UNDERBODY SCRAPERS • SAND & SALT SPREADERS • STANDARD & PRECISION SPINNERS • DUMP BODIES • COMBINATION (MUNICIPAL) BODIES
BRINE PRODUCTION & MANAGEMENT SYSTEMS • ANTI-ICE SYSTEMS • PRE-WET SYSTEMS • SLURRY SYSTEMS • COMPLETE TURNKEY PACKAGES



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Sourcewell
Formerly NJPA
CONTRACT: 080114-HPI



Truck Equipment
Body Package

NOTICE TO BIDDERS

Sealed bids will be received by the City of Escanaba at the office of the City Clerk, on or before 2 p.m. EST, on: TUESDAY, AUGUST 27, 2019.

The bids will be publicly opened and read in Room 101 in the City Hall located at 410 Ludington Street, Escanaba, Michigan at said date and time.

Bidder's proposals, and/or specifications may be obtained from the office of the City Clerk, located at 410 Ludington Street, Escanaba, Michigan, 49829. No bids will be considered unless the proposal and /or specifications (furnished by the City of Escanaba, Michigan), are properly completed and enclosed in a sealed envelope, marked:

ONE (1) NEW TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNT WING

In addition, the City of Escanaba, Michigan will not consider any proposal which has not been received prior to the published time, date and year of bid opening. (FAX transmittals will not be accepted.)

A Certified Check, Cashier's Check, or Bidder's Bond, drawn payable, without condition, to the City of Escanaba, Michigan, in an amount not less than 10% of the bid, will be submitted with each proposal as a guarantee that if the bid is accepted, the bidder will furnish materials or services as stated in his or her proposal. On failure of the successful bidder to fulfill the conditions of his or her proposal, he or she shall forfeit said deposit to the City of Escanaba, Michigan as liquidated damages. The acceptance of the proposal will be contingent upon the bidder's acceptance of this provision.

The City of Escanaba, Michigan reserves the right to reject any or all bids, or any part thereof at its discretion, and to waive any irregularities in the bidding. The City of Escanaba, Michigan may also split bids at its discretion. The City further reserves the right to negotiate directly with any and all bidders concerning any matter related to any bid.

All City of Escanaba, Michigan bids are prepared to afford all vendors the equal opportunity for fair and equitable competition. The City of Escanaba, Michigan assumes no liability or responsibility for any errors or oversights in the preparation and/or publication of bids.

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba
Office: (906) 786 - 1842

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART A: CAB AND CHASSIS

MINIMUM SPECIFICATIONS	FURNISHED
ENGINE	
A. DIESEL ENGINE RATED 350 - HP @ 1000 RPM AND 1000 lb.-ft. TORQUE @ 1200 RPM MINIMUM	
B. MEETS 2019 FEDERAL EMISSION STANDARDS WITH UREA – DIESEL EXHAUST FLUID	
C. FUEL FILTER WITH 120 VOLT ELECTRIC PRE-HEATER	
D. HEAVY DUTY OIL COOLER	
E. HEAVY DUTY COOLING SYSTEM	
F. HORIZONTAL EXHAUST SYSTEM WITH VERTICAL TAILPIPE CONFIGURATION OF DIESEL PARTICULATE FILTER SO AS NOT TO INTERFERE WITH THE MOUNTING OF THE DUMP BOX, COMBINATION OIL-FUEL TANK AND UNDERBODY SCRAPER	
G. COOLANT FILTER REPLACEABLE "SPIN-ON"	
H. AIR FILTER DRY TYPE WITH IN CAB FILTER REMINDER	
ELECTRICAL	
A. HEAVY DUTY ALTERNATOR RATED AT 160 AMPERE MINIMUM	
B. BATTERIES, MOUNTED FOR CLEAN FRAME RAILS, IN CAB PREFERRED: <ol style="list-style-type: none"> 1. HEAVY DUTY 12 VOLT BATTERIES 2. EASY ACCESS JUMP START PROVISION 3. SPARE CIRCUITS/SWITCHES/WIRING FOR ROOF MOUNTED STROBES, REAR BOX STROBES, FORWARD CAB GUARD STROBES AND FOR ADDITIONAL CAB MOUNTED PLOW LIGHTS AND LED LIGHT TO SHINE ON REAR PLOW WING WHEN IN USE, IN CAB CONNECTIONS 4. TRUCK ELECTRICAL SYSTEMS SHALL BE SUPPRESSED AND SHALL NOT AFFECT AGENCY RADIO EQUIPMENT 5. BATTERY DISCONNECT SWITCH 	
TRANSMISSION	
A. ALLISION WORLD HD TRANSMISSION 3500 RDS 5-SPEED WIDE RATIO OR EQUIVALENT	
B. PUSH BUTTON ALLISION SHIFT CONTROL – DASH MOUNTED LOCATION OR EQUIVALENT	
C. EXTERNAL FLUID FILTER (SPIN ON)	
D. HEAVY DUTY TRANSMISSION COOLER	
E. TRANSMISSION CONTROL MODULE MOUNTED INSIDE THE CAB SO AS NOT TO BE EXPOSED TO THE OUTSIDE ELEMENTS	
FRAME	
A. HEAVY DUTY STRAIGHT RAIL FULL LENGTH CHANNEL NO LESS THAN 120,000 PSI YIELD STRENGTH	

MINIMUM SPECIFICATIONS	FURNISHED
B. CONVENTIONAL REINFORCEMENT	
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	X
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	X
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	
B. GREASABLE DRAG LINK AND TIE ROD ENDS	
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION - 40,000 lb. CAPACITY OR EQUIVALENT	
E. WHEELBASE: 185" - 200"	
F. APPROXIMATELY 134" - 138" CAB TO AXLE 1. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX.	
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX - MODEL # TU-FLO-550 OR EQUIVALENT	
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WITH HEATER OR EQUIVALENT	
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	
TIRES/WHEELS	
A. FRONT 1. 315/80 R22.5 18 PLY HUB PILOTED DISCS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY	
B. REAR 1. 11R 22.5 14 PLY HUB PILOTED DISCS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY	
FUEL TANK AND HYDRAULIC TANK	
B. MINIMUM 50 GALLON DIESEL, FRAME MOUNTED LEFT-HAND RAIL, UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	Mounted on top of frame between cab and dump body.

MINIMUM SPECIFICATIONS	FURNISHED
CAB EXTERIOR	
A. CONVENTIONAL GALVANIZED STEEL CAB	
B. ONE PIECE MOLDED RUBBER FLOOR MAT	
C. TILT FORWARD HOOD AND FENDERS WITH BUTTERFLY OPENINGS FOR EASY ACCESS TO THE ENGINE	
D. PASSENGER LOWER DOOR WINDOW	
E. STAINLESS STEEL MIRRORS WITH HEAVY DUTY HARDWARE WITH AUXILIARY CONVEX MIRRORS - HEATED	
F. STAINLESS STEEL DUAL OUTSIDE GRAB HANDLES	
G. DOME LIGHT ACTIVATED BY DOOR SWITCHES	
H. DUAL, HEAVY DUTY ELECTRIC TWO-SPEED WINDSHIELD WIPER WITH INTERMITTENT SPEED CONTROL AND ELECTRIC WASHER	
I. CAB CLEARANCE L.E.D. LIGHTS LOCATED ON OUTER FRONT EDGE OF CAB TOP	
J. 4-WAY HAZARD SWITCH AS REQUIRED TO OPERATE ALL TURN SIGNAL LIGHTS SIMULTANEOUSLY IN A FLASHING MODE WITH A HEAVY DUTY FLASHER	
K. REFLECTORS AS REQUIRED BY MICHIGAN STATE LAW	
L. STANDARD HALOGEN or LED SEALED BEAM HEADLIGHTS	
CAB INTERIOR	
A. HEAVY DUTY HEATER AND DEFROSTER	
B. DRIVER AND PASSENGER SUN VISORS	
C. TILT/TELESCOPIC STEERING WHEEL	
D. AIR SUSPENSION, HIGH BACK DRIVER'S SEAT WITH DUAL ARM RESTS AND NON SUSPENSION, SINGLE PASSENGER SEAT WITH DUAL ARM RESTS	
E. GRAB HANDLES FOR CAB EASY ENTRANCE AND EXIT	
F. AM/FM RADIO	
G. INSTRUMENT AND WARNING SYSTEMS <ul style="list-style-type: none"> 1. SPEEDOMETER, ODOMETER, TACHOMETER, HOUR METER, ENGINE COOLANT TEMPERATURE GAUGE WITH HIGH RECOMMENDED TEMPERATURE WARNING LIGHT & BUZZER, AIR PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT & BUZZER, ENGINE OIL PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT AND BUZZER, TRANSMISSION TEMPERATURE GAUGE, MANIFOLD PRESSURE GAUGE, VOLTMETER AND ENGINE AIR FILTER RESTRICTION GAUGE-IN-DASH MOUNTED FILTER MINDER 	
MISCELLANEOUS	
A. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. ENGINE: 60 MONTHS, 100,000 MILES	

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART B BODY PACKAGE

MINIMUM SPECIFICATIONS	FURNISHED
DUMP BOX	
A. LENGTH: 14 FEET	X
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH – 62" FRONT, 48" SIDES AND 56" TAILGATE	86" front to 88" rear ID. 54" tailgate
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	1/4" tailgate
D. 1/4 " AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR	X
E. 8" I – BEAM CROSSMEMBERLESS UNDERSTRUCTURE	X
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP	Diamond fold
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE	X
H. ONE (1) ½" x 7" OFFSET TAILGATE HINGE PLATE	1"
I. AIR TAILGATE RELEASE	X
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS	Top rails turned to 45 degrees.
K. GRIPSTRUT WALKRAILS BOTH SIDE	X
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX	X
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES	X
N. GRAB HANDLE ON FRONT DRIVERS SIDE	X
O. DUAL BODY PROPS	X
P. ½ x 10 GA. x 78" CAB SHIELD 100% WELDED	X
Q. BACK UP ALARM	X
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM	X
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUS	5"-6"
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS	16.92 with boards
U. BOX VIBRATOR	X
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER	X
STANDARD DUMP BOX OPTION COST:	
\$ 77,615.00 includes hydraulics	
STAINLESS STEEL DUMP BOX OPTION COST:	
\$ 79,865.00 included hydraulics	
HOIST FOR DUMP BODY	
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR	X
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING	X
C. THE HOIST SHALL HAVE A ¼" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE	Nitrided steel glands
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI	1026 steel, 50,000 PSI

MINIMUM SPECIFICATIONS	FURNISHED
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	X
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	ARCOR surface
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	X
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNES OF 80 DEGREES ROCKWELL "B"	X
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	X
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	X
LIGHTS	
A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT: 1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS' 4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS 5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK	-Strobes in rear posts
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	X
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY	
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	Henke UBS12
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	X
C. HARDENED 5" CENTER PIN WITH THREE ¾" MOUNTING BOLTS	X
D. 2 ½" DIAMETER HINGE SHAFT	X
E. (2) HEAVY DUTY SHOCK ABSORBERS	X
F. (2) 3 ½" ACTUATING CYLINDERS	3"
G. 400 PSI CUSHION VALVE	X
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	X
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	X
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	X
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	X
L. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
M. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
N. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
O. SOLID ¾" THICK MOUNTING BRACKETS	X

MINIMUM SPECIFICATIONS

FURNISHED

P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	X
REAR MOUNTED FULL TRIP WING	
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	X
B. PARA -GLIDE WING POST	Henke postless design
C. CUSTOM HEAVY DUTY WING STOP	X
D. 3/16" TAPERED MOLDBOARD	X
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	X
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	X
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) 3/4" ORB	X
H. MANUAL LOCK OUT WITH SAFETY CHAIN	X
I. LIFT CYLINDER FROM REAR UPPER POSITION	X
HYDRAULICS	
A. PUMP	
1. CAST IRON CONSTRUCTION – FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING	38 GPM @ 2000 RPM
2. 35 GPM AT 2000 RPM	
3. DIRCT DRIVE OFF CRANKSHAFT	
4. IN-LINE HYDRAULIC FILTER	
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB	
1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB	No power beyond
C. CONTROL SEQUENCE FROM DRIVER	
1. DUMP BOX	X
2. UNDERBODY SCRAPER	
3. FRONT PLOW	
4. REAR MOUNT WING	
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	X
E. HYDRAULIC VALVE BANK – GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	X
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	X
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	X
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	X
ONE-WAY FRONT PLOW FUNCTION OPTION COST:	N/A
FOUR-WAY FRONT PLOW FUNCTION OPTION COST:	See body pricing, included there

MINIMUM SPECIFICATIONS	FURNISHED
OPTIONAL FRONT-MOUNTED, SLOTTED TRIP PLOW	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	X
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	X
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	X
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	3/16" thick
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	X
F. CASTOR TYPE ADJUSTABLE SKIDS	X
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	X
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	X
I. QUICK HITCH	X
OPTIONAL FRONT-MOUNTED PLOW COST:	\$ 11,525.00
TARP	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	Aero 575 tarp system
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	X
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	X
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	X
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT - TO BID AS ONE UNIT CHASSIS AND BODY	
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	X

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	
F.O.B. BODY LOCATIONS OR EQUIVALENT	
A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC.	

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba

Office: (906) 786 - 1842

BIDDER'S PROPOSAL

DATE: 8-23-19

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

\$ _____

MAKE: _____

MODEL: _____

DELIVERY DATE: 3-27-19 if chassis arrived 12-19

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ _____
(Must be included to qualify)

Submitted By:

FIRM: _____

ADDRESS: _____

BY: _____

TITLE: _____

PRINTED NAME: _____

DIAMOND

TANDEM, MULTI-LIFT AXLE BODY LINE



THE BODIES SHOWN MAY HAVE DEALER INSTALLED OPTIONS. SEE BACK-PAGE FOR DETAILS.

DL The ultimate solution for weight sensitive versatile work

DH No compromise rough duty dump body

3" x 4" x 3/16" tubing

3" x 4" x 3/16" tubing

4 mm (5/32") – HARDOX 450

4.5 mm (3/16") – HARDOX 450

NONE

NONE

4 mm (5/32") – HARDOX 450

4.5 mm (3/16") – HARDOX 450

4.5 mm (3/16") – HARDOX 450

1/4" – HARDOX 450

4.5 mm (3/16") – HARDOX 450

1/4" – HARDOX 450

3/16" – Domex 100W

3/16" – Domex 100W

4,378 lbs
Based on a 17' x 48" x 60" DL

4,989 lbs
Based on a 17' x 48" x 60" DH

13' to 24'

13' to 24'

42", 48", 54", 60", 66", 70"

42", 48", 54", 60", 66", 70"

42", 48", 54", 60", 66", 72"

42", 48", 54", 60", 66", 72"

86" to 88" trapezoidal design

86" to 88" trapezoidal design

Front Mount Telescopic

Front Mount Telescopic

Under Body Hoist

Under Body Hoist

TOP RAIL

SIDES

SIDE POSTS

FRONT

TAILGATE

FLOOR

SILLS

BODY WEIGHT

STANDARD BODY LENGTHS

STANDARD SIDE HEIGHTS

STANDARD TAILGATE HEIGHTS

STANDARD INSIDE WIDTH

STANDARD HOIST SYSTEM

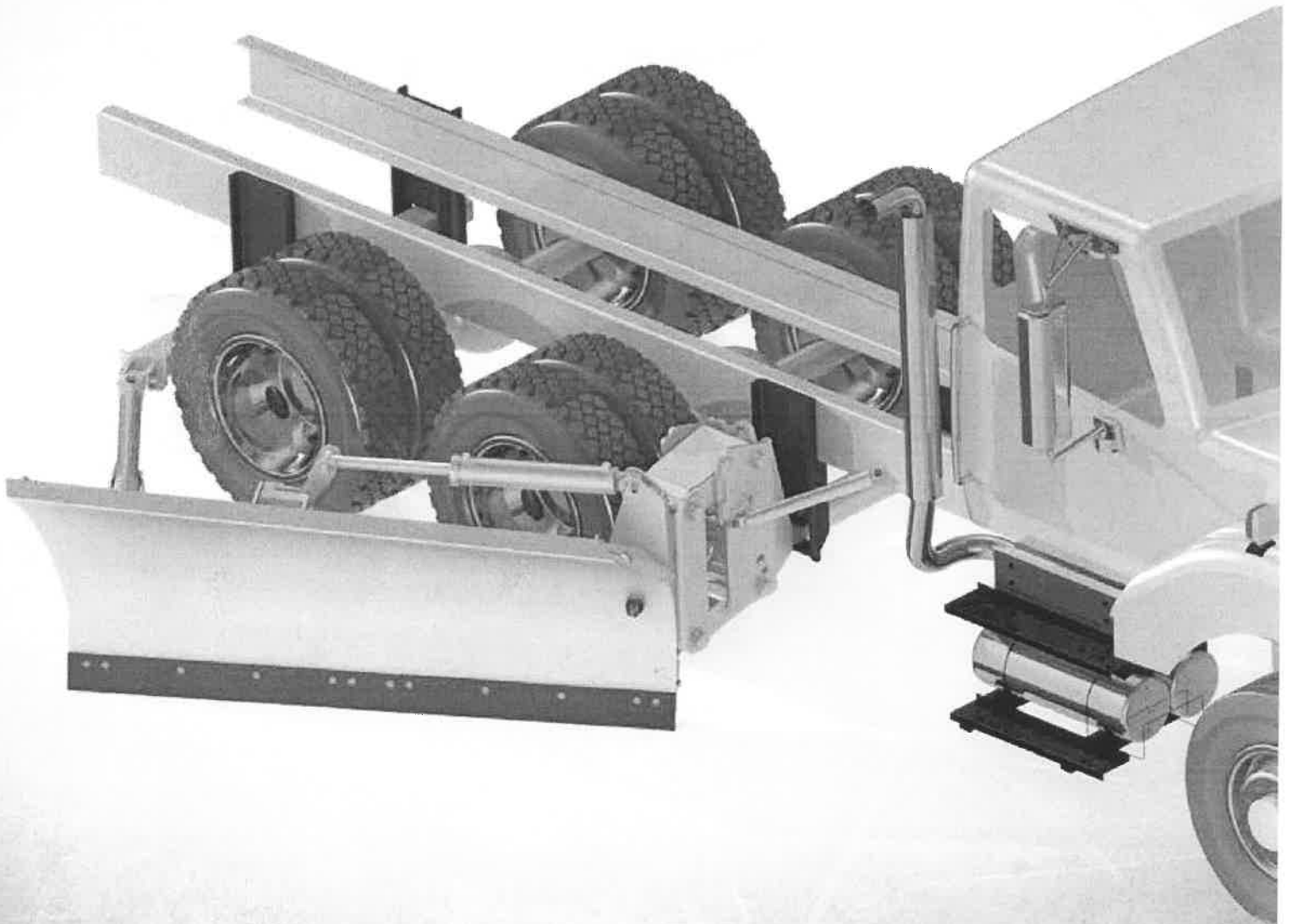
OPTIONAL HOIST SYSTEM

MATERIALS

SPECIFICATIONS

Stop the Chatter.

Henke's new postless wing takes truck wings to the next level.



Patent Pending

Find what we have for you.
888.682.9010 • www.henkemfg.com

HENKE 

Effectively cut through packed snow and ice.

Henke's parallel linkage lift doesn't bind up like traditional wings; requiring less maintenance and lasting longer.

The unique True Float, non-trailing design reduces wing chatter and increases effectiveness at cutting through packed snow and ice.

SPECIFICATIONS

Lengths: 8ft, 9ft, 10ft, 11ft, and 12ft wings

Moldboard heights:

- 31" Straight Moldboard (w/ 6" Cutting Edge)
- 29" - 36" Tapered Moldboard (w/ 6" Cutting Edge)

Trip Options: Non-Trip, Full Trip, or Trip Edge

- Non-Trip
- Full Trip
- Trip Edge

Pushbeams:

- Spring Cushioned Single Pushbeam for Front Lifted Moldboards
- Spring Cushioned Dual Pushbeams for Rear Lifted Moldboards
- Extra long Pushbeams are available when distance between mounting structures exceeds 130"
- Single hydraulic adjustable pushbeam

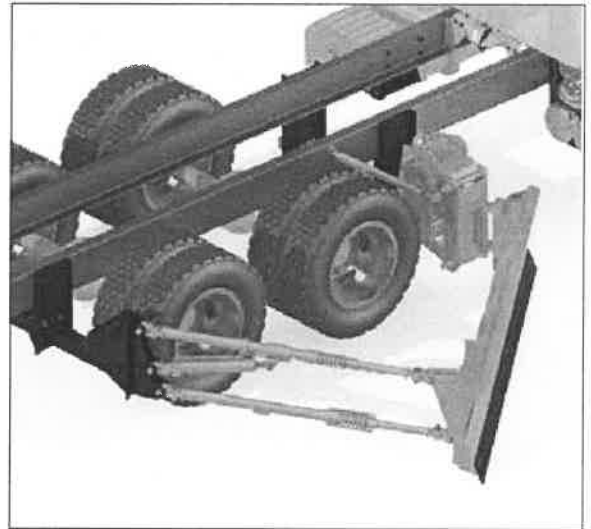
Mounting Locations:

- Front of truck
- Middle of truck (Behind cab in front of rear tires)

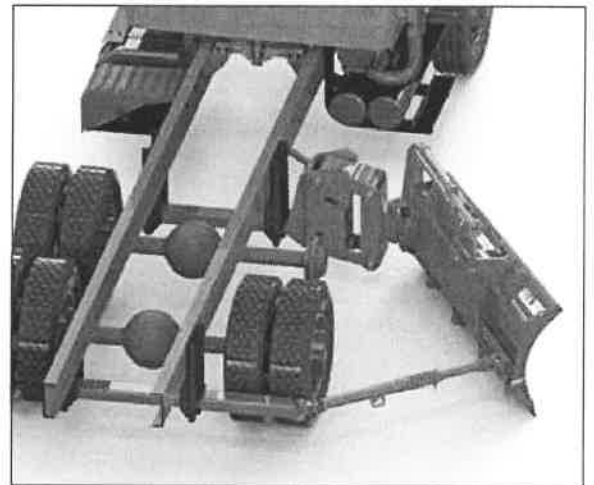
Wing Lift heights:

- Front of truck mount - 14.5" (w/ 6" Cutting Edge)
- Middle of truck mount - 12.65" (w/ 6" Cutting Edge)

AVAILABLE IN FRONT OR REAR LIFT



Rear Lift - Dual Pushbeam



Front Lift - Single Rear Pushbeam

Supporting You.

While you're out there keeping roads safe, Henke's got your back with knowledgeable support for each of our plows.



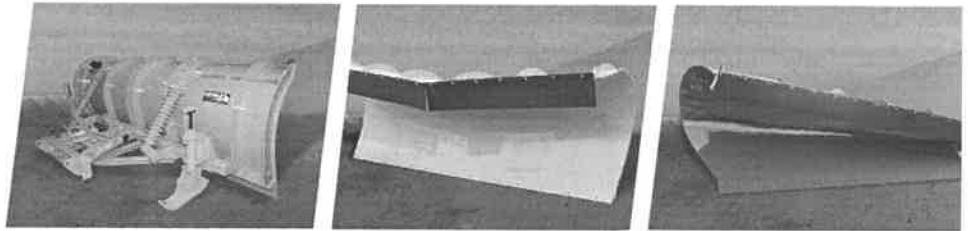
SHIFT TO THE HIGHER
STANDARD



HENKE'S MODULAR PLOW SYSTEM - Flexibility to build the best plow for your application

With **over 100 years of experience making snow plows**, Henke has developed a standardized plow line that gives you the flexibility to build the plow you need. By combining different options for height, width, profile, pushframe, trip, hitch, and running gear, you can easily create a highly customized "standard" plow.

- ▶ Henke's moldboards with chain style level lift (or optional sliding level lift) **keeps the plow level** while our **integral snow shield prevents snow from blowing over the top** of the moldboard.
- ▶ Henke's **Grade 50 Steel is 39% stronger** than A-36 Steel.
- ▶ Henke's **Road Safe pushframe provides maximum strength** and prevents bottom angle bending. **Cylinders are located above the pushframe for protection** against road debris and ease of maintenance.



From the urban core to the steepest mountain passes, Henke's Road Warrior Plow will conquer your toughest challenges

	SELECT:	STYLES	MATERIALS	LENGTHS (ft)	HEIGHTS
1	MOLDBOARDS	Straight Expressway Funnel/One-Way	Grade 50 Steel 304 Stainless Poly-Lined Steel	10 11 12	Varies by Style
		STYLES	LENGTHS	NOTES	
2	PUSHFRAMES	Road Safe* Tube Table** Parallel Lift**	Standard: 119.5" 6 Ribs Heavy Duty: 119.5", 8 Ribs	*Road Safe frame prevents bottom angle bending. Cylinders above frame. **Not available with all moldboard shapes and sizes.	
		STYLES	DESCRIPTION		
3	TRIPS <small>(Not all trips are available with every moldboard size and pushframe selection)</small>	ECT EST EXT SLT SSTE	External Compression - Spring Enclosed Springs - EST (Single) or DEST (Dual) Extension Spring - 6 Springs or 8 Springs Slotted Trip - Spring-in-Spring Square Spring Trip Edge		
4	LIFT SYSTEMS	Standard Lift: 2 Chain level lift design Sliding Level Lift: Improved Performance as plow is angled Parallel Lift: True level lifting as plow is angled and raised or lowered			
5	OPTIONS: <i>Many options are available. A few common ones are listed.</i>	Various Wear Components; Various Running Gear (Runner Shoes, Steel Wheels, Pneumatic Running Gear, Mushroom Shoes - standard or spring loaded) Single or Dual Mouse Ears; Mailbox Cut; Jack Stand; Rod Markers			

ITY OF ESCANABA
DEPARTMENT OF PUBLIC WORKS

Olsen
Body Package

INVITATION TO BID

DATE: August 12, 2019

ADVERTISED: August 12 - 27, 2019

BID OPENING: August 27, 2019 at 2:00 p.m.
Escanaba City Clerk's Office
410 Ludington Street
Escanaba, MI 49829

SENT TO: NINE (9)

UP International Trucks
1802 North 21st Street
Escanaba, Michigan 49829

U.P. Western Star
P.O. Box 261
Quinnesec, Michigan 49876

Wisconsin Kenworth
P.O. Box 12413
Green Bay, Wisconsin 54307

Freightliner – Eastside, Inc.
107 South Groesbeck
Mt. Clemens, Michigan 48043

Peterbilt Wisconsin
P.O. Box 5305
DePere, Wisconsin 54115

Freightliner
5285 Clay Ave., S.W.
Wyoming, Michigan 49548

Truck Country of Wisconsin
2401 Progress Way
Kaukauna, Wisconsin 54130

Kriete Group
2090 Mid Valley Drive
DePere, Wisconsin 54115

Wolverine Eastside Truck Sales
Groesbeck Highway
Mt. Clemens, Michigan 48043

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART A: CAB AND CHASSIS

MINIMUM SPECIFICATIONS	FURNISHED
ENGINE	
A. DIESEL ENGINE RATED 350 - HP @ 1000 RPM AND 1000 lb.-ft. TORQUE @ 1200 RPM MINIMUM	
B. MEETS 2019 FEDERAL EMISSION STANDARDS WITH UREA – DIESEL EXHAUST FLUID	
C. FUEL FILTER WITH 120 VOLT ELECTRIC PRE-HEATER	
D. HEAVY DUTY OIL COOLER	
E. HEAVY DUTY COOLING SYSTEM	
F. HORIZONTAL EXHAUST SYSTEM WITH VERTICAL TAILPIPE CONFIGURATION OF DIESEL PARTICULATE FILTER SO AS NOT TO INTERFERE WITH THE MOUNTING OF THE DUMP BOX, COMBINATION OIL-FUEL TANK AND UNDERBODY SCRAPER	
G. COOLANT FILTER REPLACEABLE “SPIN-ON”	
H. AIR FILTER DRY TYPE WITH IN CAB FILTER REMINDER	
ELECTRICAL	
A. HEAVY DUTY ALTERNATOR RATED AT 160 AMPERE MINIMUM	
B. BATTERIES, MOUNTED FOR CLEAN FRAME RAILS, IN CAB PREFERRED: <ol style="list-style-type: none"> 1. HEAVY DUTY 12 VOLT BATTERIES 2. EASY ACCESS JUMP START PROVISION 3. SPARE CIRCUITS/SWITCHES/WIRING FOR ROOF MOUNTED STROBES, REAR BOX STROBES, FORWARD CAB GUARD STROBES AND FOR ADDITIONAL CAB MOUNTED PLOW LIGHTS AND LED LIGHT TO SHINE ON REAR PLOW WING WHEN IN USE, IN CAB CONNECTIONS 4. TRUCK ELECTRICAL SYSTEMS SHALL BE SUPPRESSED AND SHALL NOT AFFECT AGENCY RADIO EQUIPMENT 5. BATTERY DISCONNECT SWITCH 	
TRANSMISSION	
A. ALLISION WORLD HD TRANSMISSION 3500 RDS 5-SPEED WIDE RATIO OR EQUIVALENT	
B. PUSH BUTTON ALLISION SHIFT CONTROL – DASH MOUNTED LOCATION OR EQUIVALENT	
C. EXTERNAL FLUID FILTER (SPIN ON)	
D. HEAVY DUTY TRANSMISSION COOLER	
E. TRANSMISSION CONTROL MODULE MOUNTED INSIDE THE CAB SO AS NOT TO BE EXPOSED TO THE OUTSIDE ELEMENTS	
FRAME	
A. HEAVY DUTY STRAIGHT RAIL FULL LENGTH CHANNEL NO LESS THAN 120,000 PSI YIELD STRENGTH	

MINIMUM SPECIFICATIONS	FURNISHED
B. CONVENTIONAL REINFORCEMENT	
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	
B. GREASABLE DRAG LINK AND TIE ROD ENDS	
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION – 40,000 lb. CAPACITY OR EQUIVALENT	
E. WHEELBASE: 185" – 200"	
F. APPROXIMATELY 134" – 138" CAB TO AXLE <ul style="list-style-type: none"> 1. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX. 	
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX – MODEL # TU-FLO-550 OR EQUIVALENT	
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WITH HEATER OR EQUIVALENT	
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	
TIRES/WHEELS	
A. FRONT <ul style="list-style-type: none"> 1. 315/80 R22.5 18 PLY HUB PILOTED DISCS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
B. REAR <ul style="list-style-type: none"> 1. 11R 22.5 14 PLY HUB PILOTED DISCS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
FUEL TANK AND HYDRAULIC TANK	
B. MINIMUM 50 GALLON DIESEL , FRAME MOUNTED LEFT-HAND RAIL, UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	

MINIMUM SPECIFICATIONS	FURNISHED
CAB EXTERIOR	
A. CONVENTIONAL GALVANIZED STEEL CAB	
B. ONE PIECE MOLDED RUBBER FLOOR MAT	
C. TILT FORWARD HOOD AND FENDERS WITH BUTTERFLY OPENINGS FOR EASY ACCESS TO THE ENGINE	
D. PASSENGER LOWER DOOR WINDOW	
E. STAINLESS STEEL MIRRORS WITH HEAVY DUTY HARDWARE WITH AUXILARY CONVEX MIRRORS - HEATED	
F. STAINLESS STEEL DUAL OUTSIDE GRAB HANDLES	
G. DOME LIGHT ACTIVATED BY DOOR SWITCHES	
H. DUAL, HEAVY DUTY ELECTRIC TWO-SPEED WINDSHIELD WIPER WITH INTERMITTENT SPEED CONTROL AND ELECTRIC WASHER	
I. CAB CLEARANCE L.E.D. LIGHTS LOCATED ON OUTER FRONT EDGE OF CAB TOP	
J. 4-WAY HAZARD SWITCH AS REQUIRED TO OPERATE ALL TURN SIGNAL LIGHTS SIMULTANEOUSLY IN A FLASHING MODE WITH A HEAVY DUTY FLASHER	
K. REFLECTORS AS REQUIRED BY MICHIGAN STATE LAW	
L. STANDARD HALOGEN or LED SEALED BEAM HEADLIGHTS	
CAB INTERIOR	
A. HEAVY DUTY HEATER AND DEFROSTER	
B. DRIVER AND PASSENGER SUN VISORS	
C. TILT/TELESCOPIC STEERING WHEEL	
D. AIR SUSPENSION, HIGH BACK DRIVER'S SEAT WITH DUAL ARM RESTS AND NON SUSPENSION, SINGLE PASSENGER SEAT WITH DUAL ARM RESTS	
E. GRAB HANDLES FOR CAB EASY ENTRANCE AND EXIT	
F. AM/FM RADIO	
G. INSTRUMENT AND WARNING SYSTEMS <ul style="list-style-type: none"> 1. SPEEDOMETER, ODOMETER, TACHOMETER, HOUR METER, ENGINE COOLANT TEMPERATURE GAUGE WITH HIGH RECOMMENDED TEMPERATURE WARNING LIGHT & BUZZER, AIR PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT & BUZZER, ENGINE OIL PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT AND BUZZER, TRANSMISSION TEMPERATURE GAUGE, MANIFOLD PRESSURE GAUGE, VOLTMETER AND ENGINE AIR FILTER RESTRICTION GAUGE-IN-DASH MOUNTED FILTER MINDER 	
MISCELLANEOUS	
A. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. ENGINE: 60 MONTHS, 100,000 MILES	

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART B BODY PACKAGE

MINIMUM SPECIFICATIONS	FURNISHED
DUMP BOX	
A. LENGTH: 14 FEET	yes
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH - 62" FRONT, 48" SIDES AND 56" TAILGATE	yes
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	yes
D. 1/4 " AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR	yes
E. 8" I - BEAM CROSSMEMBERLESS UNDERSTRUCTURE	yes
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP	yes
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE	yes
H. ONE (1) 1/2" x 7" OFFSET TAILGATE HINGE PLATE	yes
I. AIR TAILGATE RELEASE	yes
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS	yes
K. GRIPSTRUT WALKRAILS BOTH SIDE	yes
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX	yes
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES	yes
N. GRAB HANDLE ON FRONT DRIVERS SIDE	yes
O. DUAL BODY PROPS	yes
P. 1/2 x 10 GA. x 78" CAB SHIELD 100% WELDED	yes
Q. BACK UP ALARM	yes
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM	yes
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUS	yes
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS	yes
U. BOX VIBRATOR	yes
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER	yes
<i>Installed</i> STANDARD DUMP BOX OPTION COST:	\$ 24,421.00
<i>Installed</i> STAINLESS STEEL DUMP BOX OPTION COST:	27,618.00
HOIST FOR DUMP BODY	
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR	yes
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING	yes
C. THE HOIST SHALL HAVE A 1/4" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE	yes
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI	yes

COMPLY

COMPLY

MINIMUM SPECIFICATIONS	FURNISHED	
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	yes	
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	yes	
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	yes	
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNESS OF 80 DEGREES ROCKWELL "B"	yes	COMPLY
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	yes	
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	yes	
LIGHTS		
A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT:	yes	
1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES	yes	
2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES	yes	
3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS'	yes	COMPLY
4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS	yes	
5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK	yes	
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	yes	
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY		
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	yes	
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	yes	
C. HARDENED 5" CENTER PIN WITH THREE 3/4" MOUNTING BOLTS	yes	
D. 2 1/2" DIAMETER HINGE SHAFT	yes	
E. (2) HEAVY DUTY SHOCK ABSORBERS	yes	
F. (2) 3 1/2" ACTUATING CYLINDERS	yes	
G. 400 PSI CUSHION VALVE	yes	COMPLY
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	yes	
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	yes	
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	yes	
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	yes	
L. ALL HINGES ARE GUSSETED WITH 1/2" MATERIAL	yes	
M. ALL HINGES ARE GUSSETED WITH 1/2" MATERIAL	yes	
N. ALL HINGES ARE GUSSETED WITH 1/2" MATERIAL	yes	
O. SOLID 3/4" THICK MOUNTING BRACKETS	yes	

MINIMUM SPECIFICATIONS	FURNISHED	
P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	Yes	
REAR MOUNTED FULL TRIP WING		
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	Yes	
B. PARA -GLIDE WING POST	postless Design	
C. CUSTOM HEAVY DUTY WING STOP	Yes	
D. 3/16" TAPERED MOLDBOARD	Yes	COMPLY
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	Yes	
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	Yes	
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) 3/4" ORB	Yes	
H. MANUAL LOCK OUT WITH SAFETY CHAIN	Yes	
I. LIFT CYLINDER FROM REAR UPPER POSITION	Yes	
HYDRAULICS		
A. PUMP		
1. CAST IRON CONSTRUCTION - FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING	Yes	COMPLY
2. 35 GPM AT 2000 RPM		
3. DIRCT DRIVE OFF CRANKSHAFT		
4. IN-LINE HYDRAULIC FILTER		
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB	Yes	COMPLY
1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB		
C. CONTROL SEQUENCE FROM DRIVER		
1. DUMP BOX	Yes	COMPLY
2. UNDERBODY SCRAPER		
3. FRONT PLOW		
4. REAR MOUNT WING		
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	Yes	
E. HYDRAULIC VALVE BANK - GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	Yes	
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	Yes	COMPLY
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	Yes	
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	Yes	
	ONE-WAY FRONT PLOW FUNCTION OPTION COST: \$14,192.00	
	FOUR-WAY FRONT PLOW FUNCTION OPTION COST: \$14,650.00	

MINIMUM SPECIFICATIONS

FURNISHED

MINIMUM SPECIFICATIONS	FURNISHED
OPTIONAL FRONT – MOUNTED, SLOTTED TRIP PLOW	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	YES
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	YES
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	YES
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	YES
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	YES
F. CASTOR TYPE ADJUSTABLE SKIDS	YES
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	YES
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	YES
I. QUICK HITCH	YES
OPTIONAL FRONT-MOUNTED PLOW COST: \$14,726.00	
TARP	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	YES
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	YES
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	YES
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	YES
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	YES
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	YES
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	YES

COMPLY

EXCEEDS

COMPL

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	Yes
F.O.B. BODY LOCATIONS OR EQUIVALENT	
A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC.	

COMPLY

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba

Office: (906) 786 - 1842

BIDDER'S PROPOSAL

DATE: August 23, 2019

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

\$ 78,734.00

MAKE: _____

MODEL: _____

DELIVERY DATE: _____

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ _____
(Must be included to qualify)

Submitted By:

FIRM: OLSON TRAILER & BODY

ADDRESS: 2485 HUTSON ROAD GREEN BAY WI

BY: DENNIS GOIMAN

TITLE: TERRITORY MANAGER

PRINTED NAME: DENNIS GOIMAN

NOTICE TO BIDDERS

Sealed bids will be received by the City of Escanaba at the office of the City Clerk, on or before 2 p.m. EST, on: TUESDAY, AUGUST 27, 2019.

The bids will be publicly opened and read in Room 101 in the City Hall located at 410 Ludington Street, Escanaba, Michigan at said date and time.

Bidder's proposals, and/or specifications may be obtained from the office of the City Clerk, located at 410 Ludington Street, Escanaba, Michigan, 49829. No bids will be considered unless the proposal and /or specifications (furnished by the City of Escanaba, Michigan), are properly completed and enclosed in a sealed envelope, marked:

ONE (1) NEW TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNT WING

In addition, the City of Escanaba, Michigan will not consider any proposal which has not been received prior to the published time, date and year of bid opening. (FAX transmittals will not be accepted.)

A Certified Check, Cashier's Check, or Bidder's Bond, drawn payable, without condition, to the City of Escanaba, Michigan, in an amount not less than 10% of the bid, will be submitted with each proposal as a guarantee that if the bid is accepted, the bidder will furnish materials or services as stated in his or her proposal. On failure of the successful bidder to fulfill the conditions of his or her proposal, he or she shall forfeit said deposit to the City of Escanaba, Michigan as liquidated damages. The acceptance of the proposal will be contingent upon the bidder's acceptance of this provision.

The City of Escanaba, Michigan reserves the right to reject any or all bids, or any part thereof at its discretion, and to waive any irregularities in the bidding. The City of Escanaba, Michigan may also split bids at its discretion. The City further reserves the right to negotiate directly with any and all bidders concerning any matter related to any bid.

All City of Escanaba, Michigan bids are prepared to afford all vendors the equal opportunity for fair and equitable competition. The City of Escanaba, Michigan assumes no liability or responsibility for any errors or oversights in the preparation and/or publication of bids.

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba
Office: (906) 786 - 1842



Trailer & Body LLC

DATE AUGUST 22, 2019

QUOTE#DG-08222019-01

2485 HUTSON ROAD, GREEN BAY, WI 54303
1-800-242-8091 920-499-0881 Fax 1-920-499-3813 Dennis Gorman Territory Manager

TO: CITY OF ESCANABA

TANDEM Axle Patrol Truck Equipment

Delivery date determined by award date - 90 days to get equipment plus 65 days to install
Equipment for 2019 TANDEM axle patrol truck
Furnish and Install

DUMP BODY:

TBEI DURACCLASS dump body 14 feet long
With 84' inside diameter width 96' outside dia. 62' front, 48' sides and 56' tailgate
With 3/16" ar 450 front, sides and tailgate
1/4 'ar 450 crossmemberless floor, western style
8" I- beams understructure cross memberless
Tailgate to have a single center cross support 3.50; deep
Extend box bottom 10' beneath tailgate
One - 1/2' x 7' offset tailgate hinge plate
Air release tailgate
Sloping fully boxed top rails with 3' wide board pockets
Gripstrut walk rails on both sides
Steps installed front driver side of corner of box
Steps mounted to front and rear on both sides
Grab handles on front driver side
Dual body props
1/2' 10 gauge x 78' cab shield
Installing back up alarm
Mud flaps front and rear of tandems
6' front to floor and side to floor radius
The body will be capacity will be 10.5 cubic yards without side board, and 14 cubic yards with side board
Cougar DC 3200 vibrator installing momentary switch and controlled in cab
RC toolbox 36 x 18 x 18 weather resistant, frame mounted, not to interfere with underbody

HOIST ON DUMP BODY;

Mailhot M120-5.5-3 S/A
Will be able to operate up to 2,500 psi and self-bleeding
The Mailhot hoist provided WILL MEET A, B, C, D, E, F, G, H, I, J

LIGHTS;

Using all LED lights
Two oval red stop, turn and tail lights with protective rubber grommets and wire harnesses
Two oval clear back up wire harnesses lights with protective rubber grommets and
Four 2" round red marker lights protective rubber grommets and wire harnesses
One light bar with three 2' round red markers
Two green and amber strobes mounted on the light bar facing the rear of truck
Lights for blade/and rear wing post will be LED on its own circuits and switches and rubber mounted

UNDERBODY HENKE:

UBS12 – 12 Foot Underbody Scraper

Solid 2 ½" hinge shaft and four (4) hinge-anchor points
Hangerboard circle clamps 102in2, with poly wear pads
One piece circle 1" thick solid steel with 5" center pin
Two (2) heavy duty mounting plates
Moldboard 1" x 20" carbon steel
Two (2) 4" bore D.A. reversing cylinders with 2" nitrated rods
Two (2) 3" bore D.A. actuating cylinders with 2" nitrated rods
Crossover relief valve for reversing cylinders
Down pressure relief valve for actuating cylinders
Cutting edge ½' X 6' high carbon steel cutting edge
Underbody scraper painted satin black
400 PSI cushion valve
Gripstrut welded on driver side of moldboard

HENKE WING:

PPW-RL9 -- 9DPB Postless Patrol Wing with Dual Push-beam Rear Lift

Mid mount design - in front of rear axle - with 12.65" of float
All hydraulic operation - no cables
23" by 12" heavy duty parallel arm structure with 3" x 10" x 2" double acting lift cylinder
Full-tripping moldboard with (2) two position pivot bushing and (6) six position push-beam adjustment
Leading end height 29" and discharge end height 36"
Smooth rolled 3/16" hi-tensile 50,000psi steel plate
Anti-chatter feature
3" x 15" x 2" double acting wing stow cylinder with decal feature and built in lock valve mounted at rear between upper and lower push-beams
Cutting edge ½' x 8' carbon steel
Standard duty dual, non-hydraulic, spring-cushioned, adjustable push-beams
69.25" standard push-beam max length
Push-beam inner rod material is 2.188 round bar and outer tube material is 2.5" SCH 80 Pipe
Wing painted: to your color specification

HYDRAULICS:

Eaton 421 series front mounted pump has a 4.88 cubic inch displacement
The 421 pump will produce approximately 38 GPM at 2000 RPMs
Front mounted to operate underbody, dump body, front plow, and rear wing
Direct drive off crankshaft
In-line hydraulic filter
Force America Add-A-Stack 4020 valve assembly for needed hydraulic functions
Controls manifold for dump body, underbody scraper, front plow, and rear mounted wing to be installed on a tower in cab
With no exposed hoses in cab
Controls sequence from driver 1 dump body/2 underbody scraper/3 front plow/4 rear mount wing
Levers to be back to raise and down to lower
The valve section to be mounted behind cab, all hoses will be anchored and clear of any damaging obstructions
All hydraulic lines, hoses and fitting will be sufficient capacity to accommodate the volume of oil without undue heating and turbulence in the system
With all needed cushion valves, reliefs and locks.
Includes all needed hoses, fittings, couplers, fluids, and reliefs to 100% meet specifications

OPTIONAL FRONT MOUNTED, SLOTTED TRIP PLOW;

Henke OWFA 30-60- 12IS, SLT -- 12 Foot One-Way Fixed Angle Snowplow

Leading end height 30" and discharge end height 60"
3/16" thick, rolled plate moldboard with integral shield
1/4" landslide plate on leading end of moldboard
One-Way fixed angle push-frame: 4" x 7" x 3/8"
(SLT) slotted trip

Henke Husting hitch level lift
Cutting edge 1/2' X 8' high carbon steel
Hitch plow half: 34" Husting
Plow painted: to your color specification
Rod markers Rubber shield
34" Husting hitch truck portion
Castor type adjustable skids with the steel wheels
Hitch set up for a 13" ground to bottom of hitch mounting height
Automatic snap coupling type
Standard dual cam actuated spring loaded locking pins
3" x 10" double acting lift cylinder
Hitch painted satin black

TARP:

AERO 550 electric trap system with mesh tarp, with controls in dash, under mounted springs

TOTAL ALL EQUIPMENT INSTALLED THE STEEL DUMP BODY, HYDRAULICS, UNDERBODY, WING, VIBRATOR, LIGHTS, TOOLBOX, AND TARP

TOTAL: \$ 78,734.00

OPTIONS FOR STAINLESS STEEL DUMP BODY WITH LEAVING THE DUMP STAINLESS STEEL NO PAINT

ADD: \$3,197.00

SLOTTED TRIP ONE WAY PLOW WITH INSTALLION

OPTIONS PRICE: \$ 14,726.00

OPTIONS PRICE FOR POWER REVERSING PLOW IN LIEU OF ABOVE

ADD: \$ 15,920.00

OPTION SNOW WHEEL SYSTEM 6509 SERIES RUNNING GEAR BRACKETS INSTALLED ON PUSH-FRAME

ADD; \$ 3,541.00

WITH INSTALLTION

Respectfully submitted by DENNIS GORMAN Date AUGUST 22, 2019
Dennis Gorman Territory Manager Olson Trailer & Body LLC 800-242-8091 dgorman@olsontrailer.com

Accepted By _____ Date _____ PO# _____

Chassis to be _____ CT _____ Expected delivery Date _____

BIDDER'S PROPOSAL

DATE: 8-26-19

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

w/casper Package
\$ 174,607⁰⁰

w/mongoose Package
\$ 172,370⁰⁰

MAKE: 2021 Mack

MODEL: MHD

DELIVERY DATE: No later than March 2020

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ 17,751⁰⁰
(Must be included to qualify)

Submitted By:

FIRM: Kriete Truck Centers

ADDRESS: 2090 Mid Valley Dr.

BY: John Heikkila

TITLE: Territory Manager

PRINTED NAME: John Heikkila



JOHN HEIKKILA
TERRITORY MANAGER
johnh@kgtruck.com

820 N. 5th St. | Ishpeming, MI 49849
C 906.458.9351

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART A: CAB AND CHASSIS

MINIMUM SPECIFICATIONS	FURNISHED
ENGINE	
A. DIESEL ENGINE RATED 350 - HP @ 1000 RPM AND 1000 lb.-ft. TORQUE @ 1200 RPM MINIMUM	/
B. MEETS 2019 FEDERAL EMISSION STANDARDS WITH UREA – DIESEL EXHAUST FLUID	/
C. FUEL FILTER WITH 120 VOLT ELECTRIC PRE-HEATER	/
D. HEAVY DUTY OIL COOLER	/
E. HEAVY DUTY COOLING SYSTEM	/
F. HORIZONTAL EXHAUST SYSTEM WITH VERTICAL TAILPIPE CONFIGURATION OF DIESEL PARTICULATE FILTER SO AS NOT TO INTERFERE WITH THE MOUNTING OF THE DUMP BOX, COMBINATION OIL-FUEL TANK AND UNDERBODY SCRAPER	/
G. COOLANT FILTER REPLACEABLE "SPIN-ON"	/
H. AIR FILTER DRY TYPE WITH IN CAB FILTER REMINDER	/
ELECTRICAL	
A. HEAVY DUTY ALTERNATOR RATED AT 160 AMPERE MINIMUM	/
B. BATTERIES, MOUNTED FOR CLEAN FRAME RAILS, IN CAB PREFERRED:	mounted under cab
1. HEAVY DUTY 12 VOLT BATTERIES	/
2. EASY ACCESS JUMP START PROVISION	/
3. SPARE CIRCUITS/SWITCHES/WIRING FOR ROOF MOUNTED STROBES, REAR BOX STROBES, FORWARD CAB GUARD STROBES AND FOR ADDITIONAL CAB MOUNTED PLOW LIGHTS AND LED LIGHT TO SHINE ON REAR PLOW WING WHEN IN USE, IN CAB CONNECTIONS	/
4. TRUCK ELECTRICAL SYSTEMS SHALL BE SUPPRESSED AND SHALL NOT AFFECT AGENCY RADIO EQUIPMENT	/
5. BATTERY DISCONNECT SWITCH	/
TRANSMISSION	
A. ALLISION WORLD HD TRANSMISSION 3500 RDS 5-SPEED WIDE RATIO OR EQUIVALENT	Allison 3000 RDS
B. PUSH BUTTON ALLISION SHIFT CONTROL – DASH MOUNTED LOCATION OR EQUIVALENT	/
C. EXTERNAL FLUID FILTER (SPIN ON)	/
D. HEAVY DUTY TRANSMISSION COOLER	/
E. TRANSMISSION CONTROL MODULE MOUNTED INSIDE THE CAB SO AS NOT TO BE EXPOSED TO THE OUTSIDE ELEMENTS	/
FRAME	
A. HEAVY DUTY STRAIGHT RAIL FULL LENGTH CHANNEL NO LESS THAN 120,000 PSI YIELD STRENGTH	2,470,000 RBM

MINIMUM SPECIFICATIONS	FURNISHED
B. CONVENTIONAL REINFORCEMENT	/
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	20" Extension (no bolt on)
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	/
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	/
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	22" but clears all
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	/
B. GREASABLE DRAG LINK AND TIE ROD ENDS	/
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	/
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION - 40,000 lb. CAPACITY OR EQUIVALENT	Mack Air 40,000
E. WHEELBASE: 185" - 200"	199"
F. APPROXIMATELY 134" - 138" CAB TO AXLE I. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX.	134"
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	/
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX - MODEL # TU-FLO-550 OR EQUIVALENT	/
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	/
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	/
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WITH HEATER OR EQUIVALENT	/
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	/
TIRES/WHEELS	
A. FRONT 1. 315/80 R22.5 18 PLY HUB PILOTTED DISCS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY	/
B. REAR 1. 11R 22.5 14 PLY HUB PILOTTED DISCS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY	/
FUEL TANK AND HYDRAULIC TANK	
B. MINIMUM 50 GALLON DIESEL, FRAME MOUNTED LEFT-HAND RAIL, UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	

MINIMUM SPECIFICATIONS	FURNISHED
CAB EXTERIOR	
A. CONVENTIONAL GALVANIZED STEEL CAB	/
B. ONE PIECE MOLDED RUBBER FLOOR MAT	/
C. TILT FORWARD HOOD AND FENDERS WITH BUTTERFLY OPENINGS FOR EASY ACCESS TO THE ENGINE	/
D. PASSENGER LOWER DOOR WINDOW	/
E. STAINLESS STEEL MIRRORS WITH HEAVY DUTY HARDWARE WITH AUXILARY CONVEX MIRRORS - HEATED	/
F. STAINLESS STEEL DUAL OUTSIDE GRAB HANDLES	Molded
G. DOME LIGHT ACTIVATED BY DOOR SWITCHES	/
H. DUAL, HEAVY DUTY ELECTRIC TWO-SPEED WINDSHIELD WIPER WITH INTERMITTENT SPEED CONTROL AND ELECTRIC WASHER	/
I. CAB CLEARANCE L.E.D. LIGHTS LOCATED ON OUTER FRONT EDGE OF CAB TOP	/
J. 4-WAY HAZARD SWITCH AS REQUIRED TO OPERATE ALL TURN SIGNAL LIGHTS SIMULTANEOUSLY IN A FLASHING MODE WITH A HEAVY DUTY FLASHER	/
K. REFLECTORS AS REQUIRED BY MICHIGAN STATE LAW	/
L. STANDARD HALOGEN or LED SEALED BEAM HEADLIGHTS	/
CAB INTERIOR	
A. HEAVY DUTY HEATER AND DEFROSTER	/
B. DRIVER AND PASSENGER SUN VISORS	/
C. TILT/TELESCOPIC STEERING WHEEL	/
D. AIR SUSPENSION, HIGH BACK DRIVER'S SEAT WITH DUAL ARM RESTS AND NON SUSPENSION, SINGLE PASSENGER SEAT WITH DUAL ARM RESTS	/
E. GRAB HANDLES FOR CAB EASY ENTRANCE AND EXIT	/
F. AM/FM RADIO	/
G. INSTRUMENT AND WARNING SYSTEMS 1. SPEEDOMETER, ODOMETER, TACHOMETER, HOUR METER, ENGINE COOLANT TEMPERATURE GAUGE WITH HIGH RECOMMENDED TEMPERATURE WARNING LIGHT & BUZZER, AIR PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT & BUZZER, ENGINE OIL PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT AND BUZZER, TRANSMISSION TEMPERATURE GAUGE, MANIFOLD PRESSURE GAUGE, VOLTMETER AND ENGINE AIR FILTER RESTRICTION GAUGE-IN-DASH MOUNTED FILTER MINDER	/
MISCELLANEOUS	
A. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	22"
WARRANTY	
A. ENGINE: 60 MONTHS, 100,000 MILES	/

MINIMUM SPECIFICATIONS

FURNISHED

OPTIONAL FRONT – MOUNTED, SLOTTED TRIP PLOW	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	
F. CASTOR TYPE ADJUSTABLE SKIDS	
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	
I. QUICK HITCH	
OPTIONAL FRONT-MOUNTED PLOW COST:	
TARP	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	/
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	/
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	/
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	/
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	/
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	/
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	/
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	/

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	22"
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	
F.O.B. BODY LOCATIONS OR EQUIVALENT	
A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC.	

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba

Office: (906) 786 - 1842

STANDARD TRUCK WARRANTY CERTIFICATE



Mack Trucks warrants certain individual components of the new Mack truck to be free from defects in material and workmanship under normal use and service up to the periods as specified, provided all Mack Trucks' maintenance and inspection requirements are followed. See your local authorized Mack dealer for recommended maintenance and inspection procedures. All warranty periods are calculated from date in service of the vehicle. All coverage is 100% for parts and labor subject to the qualifications, limitations, and exclusions as noted.

LIMITATIONS AND EXCLUSIONS TO THIS WARRANTY APPEAR ON THE REVERSE SIDE OF THIS CERTIFICATE. THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT AND MUST BE READ AND UNDERSTOOD.

This warranty applies to **Model Year 2019 trucks**, manufactured by Mack Trucks, operated in the United States and Canada with **EPA 17 engines**. Specific coverage is based on the application and weight class as described in the following chart:

	Standard NORMAL DUTY	Standard HEAVY DUTY	Standard SEVERE DUTY
Typical Vocations	Line / Long Haul, Short Haul, or Pickup & Delivery	Heavy Line Haul, Construction, Refuse, Fire or Rescue Service	Heavy Construction, Heavy Refuse, Off-Road, Heavy Haul, Mining, Logging, or Oil Field
Weight Class Qualifications	Vehicle must have GVWR ≤ 63,000 lbs. (≤ 28 metric tons) or GCWR ≤ 110,000 lbs. (≤ 50 mt.)	Vehicle must have GVWR ≤ 80,000 lbs. (≤ 36 mt.) or GCWR ≤ 143,000 lbs. (≤ 65 mt.)	Vehicle must have GAWR > 52,000 lbs. (> 23.5 mt.) or GVWR > 80,000 lbs. (> 36 mt.) or GCWR > 143,000 lbs. (> 65 mt.)
Basic Coverage *	12 months or 100,000 miles (160 934 km)	12 months or 100,000 miles (160 934 km)	12 months or 100,000 miles (160 934 km)
Chassis Towing	Towing/Road Service coverage is limited to 90 days or 5,000 miles (8047 km), whichever occurs first, and to a single tow per incident to the nearest authorized Mack Trucks service center. Charges in excess of \$1,000.00 are not covered unless Mack OneCall™ service is contacted and approves additional amounts prior to tow.		Not Applicable
Air Conditioning	Air conditioning (sealed system only) is covered for 12 months with no mileage limitation.		
Engine / Emission	Not covered under this warranty certificate. See respective engine manufacturer's warranty certificate. See paragraph 19 on reverse side.		
Transmission, Driveline, Rear Axle, Front Non-Drive Steer Axle	36 months or 350,000 miles (563 270 km) Covered Components are as follows: • Manual Transmission – Transmission assembly • Rear Axle – Differential carrier assembly & axle housing • Front Non-Drive Steer Axle – Axle beam, steering knuckle, & tie rod • Driveline – Bearings, hangers & shafts Allison Automatic Transmissions are not covered under this warranty certificate. See paragraph 19 on reverse side.		12 months or 100,000 miles (160 934 km)
Mack Carrier & Axle Housing	60 months or 500,000 miles (804 672 km)	36 months or 300,000 miles (482 803 km)	12 months or 100,000 miles (160 934 km)
Mack T300 Transmission	60 months or 750,000 miles (1 207 008 km)	36 months or 400,000 miles (643 738 km)	12 months or 100,000 miles (160 934 km)
mDRIVE™ Transmission	60 months or 750,000 miles (1 207 008 km) mDRIVE™ and mDRIVE™ HD	mDRIVE™: 36 months or 250,000 miles (402 336 km); mDRIVE™ HD: 36 months with no mileage limitation	12 months or 100,000 miles (160 934 km); mDRIVE™ HD: 24 months with no mileage limitation
mDRIVE™ Clutch	36 months or 300,000 miles (482 803 km) mDRIVE™ and mDRIVE™ HD	36 months or 250,000 miles (402 336 km) mDRIVE™ and mDRIVE™ HD	mDRIVE™: 12 months or 100,000 miles (160 934 km); mDRIVE™ HD: 24 months or 250,000 miles (402 336 km)
mDRIVE™ & T300 Towing	Towing/Road Service on warrantable transmission failures is covered to 24 months or 250,000 miles (402 336 km) whichever occurs first, and to a single tow per incident to the nearest authorized Mack Trucks service center. Charges in excess of \$1,000.00 are not covered unless Mack OneCall™ service is contacted and approves additional amounts prior to tow.		Not Applicable
Trunnion Bracket	36 months or 300,000 miles (482 803 km) Limited to Trunnion Bracket & Spindle, Suspension Trunnion (Except Bushings)		12 months or 100,000 miles (160 934 km) (same restrictions as Normal & Heavy)
Cab Structure	60 months or 500,000 miles (804 672 km)	24 months or 200,000 miles (321 869 km)	12 months or 100,000 miles (160 934 km)
Internal Cab Corrosion	60 months or 500,000 miles (804 672 km)	60 months or 500,000 miles (804 672 km)	60 months or 500,000 miles (804 672 km)
	Covered only where metal is perforated from the inside to the outside. See paragraph 18 on the reverse side.		
Frame Rail / Crossmembers	60 months or 500,000 miles (804 672 km) AN/CXU/PI/CHU Models Only: 72 months or 750,000 miles (1 207 008 km)	36 months or 300,000 miles (482 803 km) GR/GU Model only: 60 months or 500,000 miles (804 672 km)	12 months or 100,000 miles (160 934 km)
Noise Emission	LIFE OF VEHICLE: Mack Trucks warrants to the first purchaser of this vehicle for purposes other than resale, and to each subsequent purchaser, that this vehicle was designed, built and equipped to conform, at the time of sale to such first purchaser, with all applicable U.S. EPA noise control regulations. This warranty is not limited to any vehicle particular part, component, or system of the vehicle. Defects in the design, assembly, or any part, component or system of the vehicle, which at the time of sale to such first purchaser, caused noise emission levels to exceed Federal standards, are covered by this warranty for the life of the vehicle. EXCLUSIONS: Failures which arise as a result of tampering rather than from defects in the design, assembly, or any part, components, or system of the vehicle are not covered by this warranty.		

*Covered for 30 Days: Fluorescent Lights or Ballast, Light Bulbs, Fuses, Wiper Blades, and All Filters (oil, fuel, air, etc.).
Covered for 90 Days: Loose Fasteners, Leaking Fittings, or Loose Hose Clamps.

Chassis Specification

Customer	ESCANABA 1715 SHERIDAN RD ESCANABA 498291800 MI	Your ref.	JOHN HEIKKILA
Customer no	4025174243	Quote no.	KRIE2019000451D883
Org No		Alternative Id	1
Telephone	9067861842	Date	8/26/2019
Mobile phone		Order Date	
		Last Change	8/26/2019

Model

				Qty	List Price
GRANITE 64BRMHD				1	
CA Status	Approved				
Order number					
Price List	2019-08-12				
Delivery Time					
Delivery Address					
Family	ID	S/O	Description		
APPLICATION PACKAGES					
MHD AB CONFIG PKG	PK50000	Option	W/O MHD AB CONFIG PACKAGE		
CUSTOMER/VEHICLE INFO					
VEHICLE MODEL YEAR	A192020	Option	2021 MODEL YEAR		
TYPE OF SERVICE	0130002	Option	MUNICIPAL		
VEHICLE USE & BODY/TRAILER TYPE	0059370	Option	FLATBED TRUCK		
ENGINE EQUIPMENT					
AIR CLEANER	1250400	Option	UNDER HOOD SINGLE ELEMENT DRY TYPE W/AIR CONTROLLED INSIDE-OUTSIDE AIR INTAKE		417.00
ALTERNATOR	1321111	Option	LEECE NEVILLE 12V 160A BRUSH-TYPE		151.00
BATTERIES	3165106	Option	(3) MACK 12V 1000/3000 CCA THREADED STUD TYPE		119.00
BATTERY DISCONNECT SWITCH	3180013	Option	MAIN SWITCH, MOUNTED INSIDE CAB, GROUND ACCESSIBLE		274.00
FUEL-WATER SEPARATOR	2931001	Option	DAVCO 382, (FLUID HTD) W/12V PREHEAT W/VENDOR PRIMARY		462.00
CLUTCH/TRANS EQUIPMENT					
CLUTCH RELEASE HOSE	ULBLINE	Option	W/O LUBRICATION FITTING		
DRIVELINE - MAIN	1951201	Option	MERITOR 17 MXL "XTENDED LUBE"		-42.00
DRIVELINE - INTERAXLE	2041202	Option	MERITOR 17 MXL "XTENDED LUBE"		-13.00
FRONT AXLE EQUIPMENT					
FRONT AXLE	2401500	Option	18000# (8200 KG) MACK FXL18 (WIDE PIVOT CENTER) STRAIGHT SPINDLE/UNITIZED BEARINGS		1,932.00
SPRINGS - FRONT	2441004	Option	MACK TAPERLEAF 18000# (8200 KG) GROUND LOAD RATING		-40.00
BRAKES - FRONT	2411105	Option	MERITOR "S" CAM TYPE 16.5" x 6" Q+		38.00
STEERING	2452116	Option	TRW TAS66+RCH60 POWER		771.00

REAR AXLE EQUIPMENT

REAR AXLE RATIO	RAT5.86	Option	5.86 RATIO	
AIR SUSPENSION DUMP WARNING	ASD-W	Option	AIR SUSPENSION DUMP, WARNING INDICATOR & BUZZER	
REAR BRAKE LINING	BLMD-A1	Option	ABEX 931-162 (MERITOR R301) (REAR EACH AXLE 23,000LBS MAX)	
TRACTION DIFFERENTIAL	2540403	Option	DRVR CONT INTR WHEEL DIFF LOCK ALL RR.AXLES W/INDIVIDUAL SWITCHES	1,622.00

FRAME EQUIPMENT/FUEL TANKS

WHEELBASE	2710199	Option	199"	
AF (OVERHANG)	3740056	Option	56"	
FRAME RAILS	2741027	Option	STEEL - 300MM X 90MM X 9.5MM -- (11.81" X 3.54" X 0.37")	550.00
BOLT ON FRONT FRAME EXTENSION	UFFE	Option	W/O FRONT FRAME EXTENSION	-207.00
FRONT FRAME LENGTH	FFL1793	Option	Bumper Position Extended 20" (snow)	1,531.00
MUD FLAP BRACKETS	RMH-FPA4	Option	BETTS B87 SERIES WITH CONSPICUITY FEATURE(FMVSS 108)	90.00
MUD FLAP TYPE, REAR AXLE	RMUDF-S	Option	MUD FLAP, BLACK WITH WHITE "MACK" LETTERS	29.00

AIR/BRAKE

AIR DRYER	AIRM-B10	Option	BENDIX HEATED AD9 W/ TURBO CUT OFF VALVE, W/ COALESCING AIR FILTER	264.00
RELOCATE AIR RESERVOIRS	1410007	Option	STACKED AIR TANKS, OUTBOARD ON RH RAIL	

ELECTRICAL

BACK-UP ALARM	BUPALAR3	Option	ECCO BACK-UP ALARM 575 CONSTANT SOUND LEVEL 107 dB	108.00
WARNING LAMP	N7X-GDX	Option	2 CLEAR WARNING LIGHTS, FLASHING, FRONT ROOF MOUNTED	
AUXILIARY LAMPS	AL-SPK3	Option	DASH CTRL/PWR SUPPLY/LOCAL INST PLOW LAMPS W/LEAD FURN@ GRILL W/2W/3W WEATHER PACK CON	97.00

CAB INTERIOR (A THRU G)

GAUGE - PACKAGE, SECONDARY	2GP-BTPA	Option	2ND GA PKG W/BOOST PRESS,TRANS OIL TEMP,PYRO,APP AIR PRESS	
GAUGE - TRANSMISSION OIL TEMP	GOTR-BAS	Option	TRANSMISSION OIL TEMP GAUGE	55.00
GAUGE - EXHAUST PYROMETER	GEXPYR	Option	EXHAUST PYROMETER GAUGE	55.00
GAUGE - REAR AXLE OIL TEMP	GOTRA	Option	REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY)	55.00
GAUGE - MANIFOLD PRESSURE	GPMFLD-E	Option	MANIFOLD PRESSURE GAUGE	55.00
GAUGE - SERVICE TRAILER BRAKE PRESSURE	BPAG-E	Option	BRAKE PRESSURE APPLICATION GAUGE, ELECTRONIC	55.00
GAUGE - REAR AIR SUSP PRESSURE	GP-RAS	Option	REAR AIR SUSPENSION GAUGE IN DID (DRIVER INFORMATION DISPLAY)	55.00
FIRE EXTINGUISHER	7860007	Option	5LB (ABC RATED/AMEREX) MOUNTED BETWEEN LH SEAT BASE AND DOOR WITH VALVE AIMED REARWARD	97.00
FLOOR COVERING	1840008	Option	POLYURETHANE FLOOR MAT W/POLYURETHANE INSERTS BOTH DRIVER & PASSENGER SIDES	90.00

CAB INTERIOR (H THRU R)

RADIO/RADIO ACCOMMODATION	1746108	Option	PREMIUM STEREO, AM/FM, CD-PLAYER, WEATHER BAND, BLUETOOTH	-130.00
RADIO ANTENNA - CB	ANT-CMLL	Option	PREP KIT FOR MOUNTING ON LT SIDE MIRROR (W/O ANTENNA)	37.00
AUDIO SHUTOFF	UAUDOFF	Option	W/O AUTO RADIO SHUTOFF OPTION	-69.00
REFLECTOR KIT	7840005	Option	EMERGENCY REFLECTOR KIT MOUNTED PARALLEL & CENTERED AGAINST BOC	40.00

CAB INTERIOR (S THRU Z)

INTERIOR TRIM LEVELS	0042110	Option	PREMIUM PACKAGE, STEEL GRAY (Package 12A)	695.00
SEAT - DRIVER'S	1963140	Option	MACK-AIR, HIGH BACK, 4 CHAMBER AIR LUMBAR, BOLSTER, EXTENSION	550.00

SEAT COVERING - DRIVER'S	MAP0002	Option	DRIVER'S SEAT - BLACK MORDURA	
SEAT - PASSENGER'S	1973000	Option	MACK-FIXED, HIGH BACK	131.00
SEAT COVERING - PASSENGER'S	MAQ0002	Option	PASSENGER'S SEAT - BLACK MORDURA	
SEAT ARM REST(S)	ARMRE-DS	Option	INBOARD MOUNTED ARM REST, DRIVER'S SEAT ONLY	26.00
SEAT BELT(S)	5929003	Option	LAP & SHOULDER (BOTH SEATS) ORANGE IN COLOR	63.00
STEERING WHEEL	1610021	Option	2 SPOKE LEATHER GRIP, SATIN ALUMINUM SPOKES, WITH SWITCHES	28.00
CAB EXTERIOR				
HORN - AIR	1540002	Option	(2) MACK RECTANGULAR SINGLE TRUMPET (ONE EACH SIDE OF CAB ROOF)	34.00
MIRRORS - EXTERIOR	1529037	Option	HADLEY/KAM 4-WAY W/CHROME SHELL RH/LH BOTH MOTORIZED AND HEATED	461.00
WHEELS & TIRES				
TIRE ROLLING RESISTANCE RATING - FRONT (FOR GHG)	4WC-E1X	Option	BASIC ROLLING RESISTANCE, POOR FUEL ECONOMY	
TIRES BRAND/TYPE - FRONT	9005465	Option	315/80R22.5 L GOODYEAR G751 MSA (18180 lbs)	1,902.00
WHEELS - FRONT	5313789	Option	22.5x9.00 ALCOA ULTRA ONE ALUM DISC 10-HP; 11.25" BC, 5.96" INSET	105.00
TIRE & WHEEL QUANTITY - FRONT	FWT0003	Option	THREE FRONT TIRES & WHEELS	
TIRE ROLLING RESISTANCE RATING - REAR (FOR GHG)	4XC-G1X	Option	OTHER (NON-SPECIFIED), VERY POOR FUEL ECONOMY	
TIRES BRAND/TYPE - REAR	9015401	Option	11R22.5 G GOODYEAR G622 RSD (23360 lbs) (DRIVE ONLY)	2,728.00
SPARE WHEEL	SPWT-F	Option	SPARE WHEEL W/TIRE (SAME AS FRONT)	870.00
PAINT				
PAINT COLOR - FIRST COLOR	9448654	Option	BLUE; 879495	
PRE-FINISHED FRONT DISC WHEELS	UWPF	Option	WITHOUT SPECIAL PRE-FINISHED OPTION	
PRE-FINISHED REAR DISC WHEELS	UWPD	Option	WITHOUT SPECIAL PRE-FINISHED OPTION	
CALCULATED CODES - KAX				
PROPCALC SELECTION	UPROPCAL	Option	NO, THE ORDER MUST NOT BE CALCULATED (Requires CA Quote)	
Total(\$)				161,603.00

Customer Adaptation

Approved

ID	Description	List Price
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<p>1</p> <p>120V 1500W ENGINE BLOCKHEATER HENDRICKSON TANDEM AIR EX XM = 7340 MM, REAR AXLE POS AIR RESERVOIRS IN-FRAME, ONE RESERVOIR WILL BE OUTBOARD ON THE RH RAIL BEHIND THE CLEARTECH 8 SW;STRB;CHAIN;SNDR;ALTRNG;LOAD;ROTATING LTS;TAIL LK/UNLK & SPARE BATT WIRED THRU B BOC 2 CLEAR WARNING LIGHTS, FLASHING, FRONT ROOF MOUNTED MANIFOLD PRESSURE GAUGE 3500 RDS 6 SPD ALLISON GEN 5 RUGGED DUTY SERIES, W/PROGNOSTICS GRADUATED LOCK-UP TYPE (W/MEMORY) DASH MOUNTED HOLDS READING AFTER ENGINE SHUTDOWN DRIVER'S SEAT - BLACK MORDURA NO, THE ORDER MUST NOT BE CALCULATED (Requires CA Quote)</p>	<p>314.00</p>
<p style="text-align: right;">Total(\$)</p>	<p>314.00</p>

Package

MINIMUM SPECIFICATIONS

FURNISHED

B. CONVENTIONAL REINFORCEMENT	
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	Yes, Casper's
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	Yes, Casper's
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	Yes, Casper's
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	
B. GREASABLE DRAG LINK AND TIE ROD ENDS	
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION - 40,000 lb. CAPACITY OR EQUIVALENT	
E. WHEELBASE: 185" - 200"	
F. APPROXIMATELY 134" - 138" CAB TO AXLE <ol style="list-style-type: none"> 1. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX. 	
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX - MODEL # TU-FLO-550 OR EQUIVALENT	
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WITH HEATER OR EQUIVALENT	
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	
TIRES/WHEELS	
A. FRONT <ol style="list-style-type: none"> 1. 315/80 R22.5 18 PLY HUB PILOTED DICS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
B. REAR <ol style="list-style-type: none"> 1. 11R 22.5 14 PLY HUB PILOTED DICS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
FUEL TANK AND HYDRAULIC TANK Hydraulic & Fuel Tank behind cab	
B. MINIMUM 50 GALLON DIESEL, FRAME MOUNTED LEFT-HAND RAIL, UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	steel not stainless steel

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

**PART B
BODY PACKAGE**

MINIMUM SPECIFICATIONS

FURNISHED

DUMP BOX		
A. LENGTH: 14 FEET	Bibeau BMT	Yes
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH - 62" FRONT, 48" SIDES AND 56" TAILGATE	57 1/2"-58" tailgate	Yes
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	tailgate is 1/4"	Yes
D. 1/4 " AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR		Yes
E. 8" I - BEAM CROSSMEMBERLESS UNDERSTRUCTURE		Yes
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP		Yes
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE		Yes
H. ONE (1) 1/2" x 7" OFFSET TAILGATE HINGE PLATE		Yes
I. AIR TAILGATE RELEASE		Yes
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS		Yes
K. GRIPSTRUT WALKRAILS BOTH SIDE		Yes
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX		Yes
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES		Yes
N. GRAB HANDLE ON FRONT DRIVERS SIDE		Yes
O. DUAL BODY PROPS		Yes
P. 1/2 x 10 GA. x 78" CAB SHIELD 100% WELDED	24" x 78"	Yes
Q. BACK UP ALARM		Yes
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM		Yes
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUS		Yes
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS		Yes, per your specs above
U. BOX VIBRATOR		Yes
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER		Yes, Betts weather tig
STANDARD DUMP BOX OPTION COST:		
STAINLESS STEEL DUMP BOX OPTION COST:		
HOIST FOR DUMP BODY		Mailhot G3-120-5.3
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR		Yes
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING		Yes
C. THE HOIST SHALL HAVE A 1/2" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE		Yes
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI		Yes

MINIMUM SPECIFICATIONS	FURNISHED
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	Yes
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	Yes
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	Yes
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNNESS OF 80 DEGREES ROCKWELL "B"	Yes, exceeds
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	Yes
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	
LIGHTS	
A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT: 1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS' 4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS 5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK	Maxima heated LED Whelen Fenix 12" signal x 2 Yes
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	Yes
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY Henderson	
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	Yes
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	Yes
C. HARDENED 5" CENTER PIN WITH THREE ¾" MOUNTING BOLTS	Yes
D. 2 ½" DIAMETER HINGE SHAFT	Yes
E. (2) HEAVY DUTY SHOCK ABSORBERS	Yes
F. (2) 3 ½" ACTUATING CYLINDERS	Yes
G. 400 PSI CUSHION VALVE	Yes
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	Yes
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	Yes
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	Yes
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	Yes
L. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	Yes
M. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	Yes
N. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	Yes
O. SOLID ¾" THICK MOUNTING BRACKETS	Yes

MINIMUM SPECIFICATIONS	FURNISHED
P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	Yes
REAR MOUNTED FULL TRIP WING Universal 9Ft Uni-Tilt Rear Mount	
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	Yes
B. PARA -GLIDE WING POST Uni-Tilt, functions like paraglide system	Yes
C. CUSTOM HEAVY DUTY WING STOP	Yes
D. 3/16" TAPERED MOLDBOARD	Yes
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	Yes
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	Yes
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) 3/4" ORB	Yes
H. MANUAL LOCK OUT WITH SAFETY CHAIN	Yes
I. LIFT CYLINDER FROM REAR UPPER POSITION	Yes
HYDRAULICS Force America Hydraulic System	
A. PUMP <ul style="list-style-type: none"> 1. CAST IRON CONSTRUCTION – FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING 2. 35 GPM AT 2000 RPM 3. DIRCT DRIVE OFF CRANKSHAFT 4. IN-LINE HYDRAULIC FILTER 	Yes
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB <ul style="list-style-type: none"> 1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB 	Yes
C. CONTROL SEQUENCE FROM DRIVER <ul style="list-style-type: none"> 1. DUMP BOX 2. UNDERBODY SCRAPER 3. FRONT PLOW 4. REAR MOUNT WING 	Yes
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	Yes
E. HYDRAULIC VALVE BANK – GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	Yes
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	Yes
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	Yes
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	Yes
ONE-WAY FRONT PLOW FUNCTION OPTION COST:	12,415.00 installed
FOUR-WAY FRONT PLOW FUNCTION OPTION COST:	14,353.00 installed

Casper's Truck Equipment

MINIMUM SPECIFICATIONS	FURNISHED
OPTIONAL FRONT – MOUNTED, SLOTTED TRIP PLOW Henderson	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	Yes
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	Yes
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	Yes
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	Yes
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	Yes
F. CASTOR TYPE ADJUSTABLE SKIDS	Yes
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	Yes
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	Yes
I. QUICK HITCH	Yes
OPTIONAL FRONT-MOUNTED PLOW COST:	
TARP	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	Mountain Tarp System Yes
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	Yes
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	Yes
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	Yes
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	Yes
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	Yes, Municipal discount
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	

Casper's Truck Equipment

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	Casper's provided Equipment, 1 year warranty from in service date
F.O.B. BODY LOCATIONS OR EQUIVALENT	
A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC.	Yes

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
 Assistant Superintendent
 Department of Public Works
 City of Escanaba

Office: (906) 786 - 1842

\$72,012.00 Total Without One Way Plow Option
 \$84,427.00 Total With One Way Plow Option

\$72,709.00 Total Without Four Way Plow Option
 \$87,062.00 Total With Four Way Plow Option

Monroe Package

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART B BODY PACKAGE

MINIMUM SPECIFICATIONS	FURNISHED
DUMP BOX Crysteel Select	5 year warranty
A. LENGTH: 14 FEET	14'10"
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH – 62" FRONT, 48" SIDES AND 56" TAILGATE	X
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	X
D. 1/4 " AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR	X
E. 8" I – BEAM CROSSMEMBERLESS UNDERSTRUCTURE	X
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP	X
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE	Integrated into body
H. ONE (1) ½" x 7" OFFSET TAILGATE HINGE PLATE	X
I. AIR TAILGATE RELEASE	X
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS	X
K. GRIPSTRUT WALKRAILS BOTH SIDE	X
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX	X
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES	X
N. GRAB HANDLE ON FRONT DRIVERS SIDE	X
O. DUAL BODY PROPS	X
P. ½ x 10 GA. x 78" CAB SHIELD 100% WELDED	X
Q. BACK UP ALARM	X
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM	X
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUS	X
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS	X
U. BOX VIBRATOR	X
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER	X
STANDARD DUMP BOX OPTION COST:	see last page
STAINLESS STEEL DUMP BOX OPTION COST:	see last page
HOIST FOR DUMP BODY Dana trunion mount 6" diameter 4 stage 138" stroke	5 year warranty
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR	X
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING	X
C. THE HOIST SHALL HAVE A ¼" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE	X
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI	X

MINIMUM SPECIFICATIONS	FURNISHED
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	X
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	X
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	X
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNESS OF 80 DEGREES ROCKWELL "B"	X
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	X
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	X
LIGHTS	
A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT: <ol style="list-style-type: none"> 1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS' 4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS 5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK 	X
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	X
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY Monroe MS4512	
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	X
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	X
C. HARDENED 5" CENTER PIN WITH THREE ¾" MOUNTING BOLTS	X
D. 2 ½" DIAMETER HINGE SHAFT	X
E. (2) HEAVY DUTY SHOCK ABSORBERS	X
F. (2) 3 ½" ACTUATING CYLINDERS	X
G. 400 PSI CUSHION VALVE	X
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	X
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	X
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	X
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	X
L. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
M. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
N. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
O. SOLID ¾" THICK MOUNTING BRACKETS	X

MINIMUM SPECIFICATIONS	FURNISHED
P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	X
REAR MOUNTED FULL TRIP WING Monroe 9' Para-glide full trip rear mount	
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	X
B. PARA -GLIDE WING POST	X
C. CUSTOM HEAVY DUTY WING STOP	X
D. 3/16" TAPERED MOLDBOARD	X
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	X
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	X
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) 3/4" ORB	X
H. MANUAL LOCK OUT WITH SAFETY CHAIN	X
I. LIFT CYLINDER FROM REAR UPPER POSITION	X
HYDRAULICS	
A. PUMP <ul style="list-style-type: none"> 1. CAST IRON CONSTRUCTION – FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING 2. 35 GPM AT 2000 RPM 3. DIRCT DRIVE OFF CRANKSHAFT 4. IN-LINE HYDRAULIC FILTER 	X
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB <ul style="list-style-type: none"> 1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB 	X
C. CONTROL SEQUENCE FROM DRIVER <ul style="list-style-type: none"> 1. DUMP BOX 2. UNDERBODY SCRAPER 3. FRONT PLOW 4. REAR MOUNT WING 	X
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	X
E. HYDRAULIC VALVE BANK – GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	X
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	X
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	X
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	Reuse factory bumper per Wendy/Steve
ONE-WAY FRONT PLOW FUNCTION OPTION COST:	see last page
FOUR-WAY FRONT PLOW FUNCTION OPTION COST:	see last page

MINIMUM SPECIFICATIONS	FURNISHED
OPTIONAL FRONT – MOUNTED, SLOTTED TRIP PLOW	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	X
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	X
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	X
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	X
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	X
F. CASTOR TYPE ADJUSTABLE SKIDS	X
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	X
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	X
I. QUICK HITCH	X
OPTIONAL FRONT-MOUNTED PLOW COST:	see last page
TARP Acro 550 electric tarp system	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	X
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	

BIDDER'S PROPOSAL

DATE: 8/23/19

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

<p><u>\$69,775.00 equipment pricing</u></p> <p>MAKE: <u>Monroe Truck Equipment</u></p> <p>MODEL: _____</p>	<p>OPTIONS for the city to choose from:</p> <p>\$5,613.00 stainless sides/ends/floor in lieu of painted AR450</p> <p>\$700.00 reversible plow control/valve/lines</p> <p>\$8,260.00 one way plow (MPFA39-52-12-ISCT)</p> <p>\$9,034.00 reversible plow (MP48R12-ISCT)</p> <p>\$948.00 husting truck portion roller pins and plow portion roller</p> <p>\$2,299.00 amber/green strobe and plow lights mounted to roof b</p> <p>\$275.00 two fork/loop shovel holders</p> <p>\$375.00 electric brake control</p>
--	--

DELIVERY DATE: 180 days for equipment + 60-90 days after chassis and equipment arrives for upfit

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ Cashiers check for equipment portion supplied by Monroe
(Must be included to qualify)

Submitted By:

FIRM: Monroe Truck Equipment

ADDRESS: 1151 West Main Avenue De Pere WI. 54115

BY: Troy Redfearn

TITLE: District Sales Manager

PRINTED NAME: Troy Redfearn

BIDDER'S PROPOSAL

DATE: 8/23/19

CITY OF ESCANABA
ESCANABA, MI 49829

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Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ Cashiers check for equipment portion supplied by Monroe
(Must be included to qualify)

Submitted By:

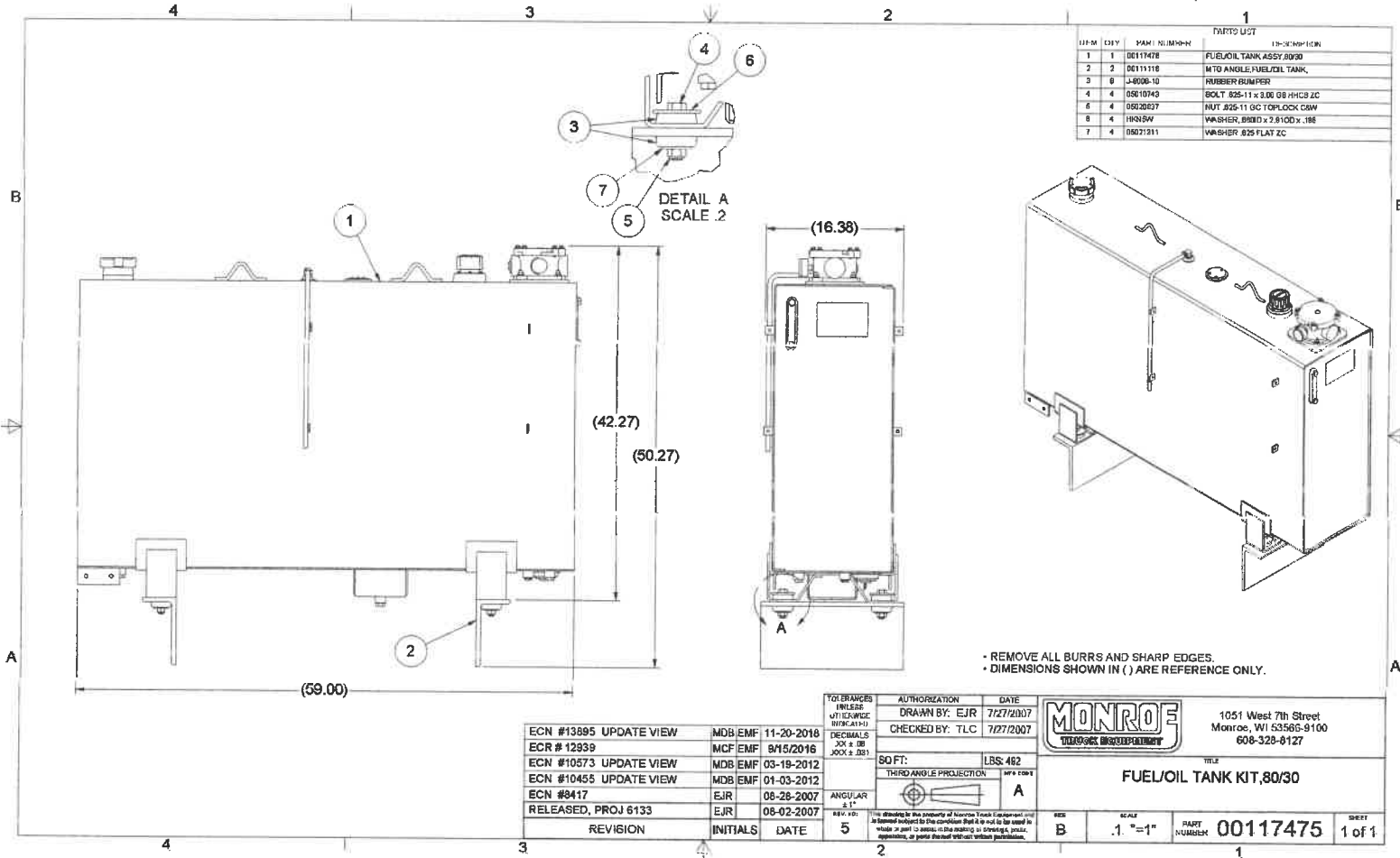
FIRM: Monroe Truck Equipment

ADDRESS: 1151 West Main Avenue De Pere WI. 54115

BY: Troy Redfeam

TITLE: District Sales Manager

PRINTED NAME: Troy Redfeam



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00117478	FUEL/OIL TANK ASSY, 80/30
2	2	00111118	MTO ANGLE, FUEL/OIL TANK
3	2	J-8008-10	RUBBER BUMPER
4	4	05010M9	BOLT, 825-11 x 3.00 GB HHCS ZC
5	4	05028237	NUT, 825-11 GC TOP LOCK CSW
6	4	19015W	WASHER, BRD 2.5100 x .188
7	4	05071911	WASHER, 825 FLAT ZC

• REMOVE ALL BURRS AND SHARP EDGES.
 • DIMENSIONS SHOWN IN () ARE REFERENCE ONLY.

ECN #13895 UPDATE VIEW	MDB/EMF	11-20-2018	DECIMALS	30 FT:	LBS: 462		1051 West 7th Street Monroe, WI 53565-9100 608-328-8127
ECR # 12939	MCF/EMF	9/15/2016	THIRD ANGLE PROJECTION	THIRD ANGLE PROJECTION	AS PER CODE		
ECN #10573 UPDATE VIEW	MDB/EMF	03-19-2012	ANGULAR	5°		FUEL/OIL TANK KIT, 80/30	TITLE
ECN #10455 UPDATE VIEW	MDB/EMF	01-03-2012	REV. NO.	5			
ECN #8417	EJR	08-28-2007	REVISION	INITIALS	DATE		SCALE .1" = 1"
RELEASED, PROJ 6133	EJR	08-02-2007				PART NUMBER 00117475	SHEET 1 of 1

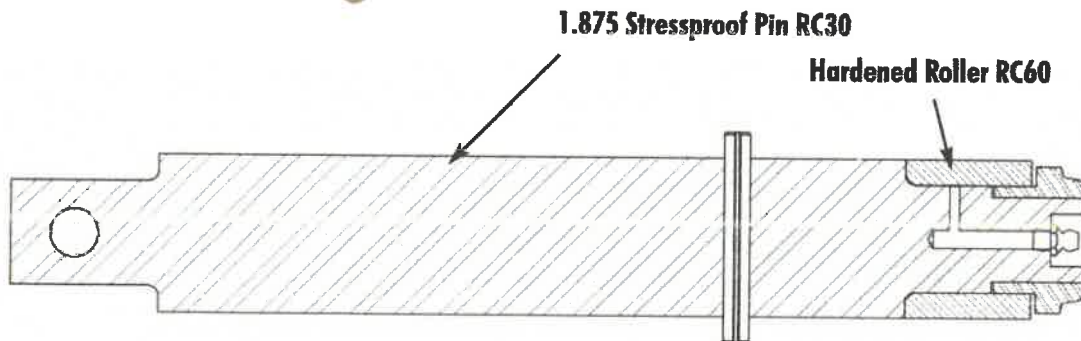


Replacement HH Roller Pin

PN: 05022221

Pin Assembly w/Roller, Zerk, & Machine Nut

- Reduces Hitch/Plow Hang Up
- Replaces Standard Pin(s)
- Hardened Pin (RC30)
- Hardened Roller (RC60)
- Relubable



Distributed By:

Monroe Snow & Ice Control
1051 W. 7th Street, Monroe, WI 53566
Parts Department: 800-880-0109
Todd Chiaverotti - tchiaverotti@monroetruck.com
Bill Hooker - bhooker@monroetruck.com

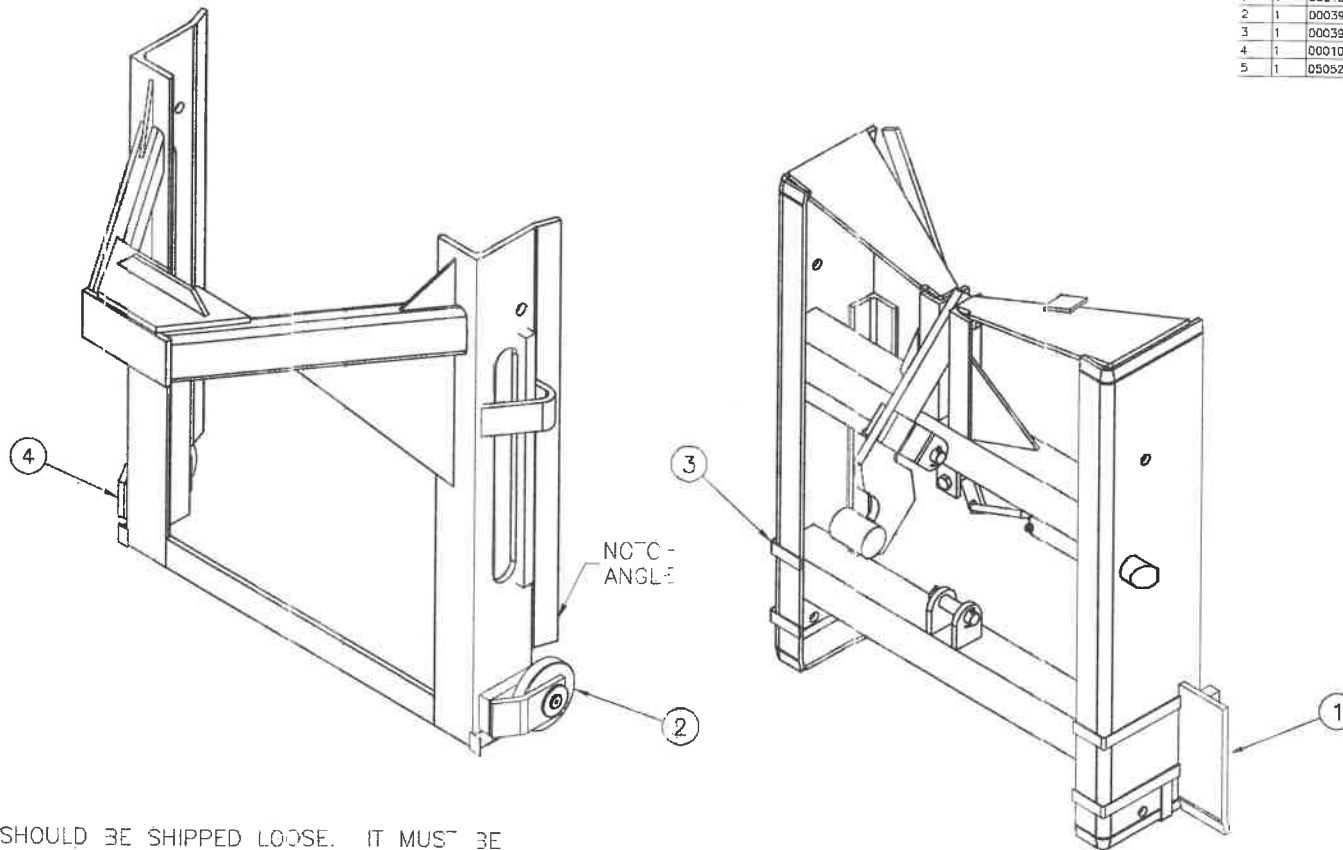
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1

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00010584	ROLLER PAD WLDMT,RH
2	1	00039046	ROLLER FRAME ASSY,RH
3	1	00039048	ROLLER PAD WLDMT,LH
4	1	00010583	ROLLER FRAME ASSY,LH
5	1	05052480	CARDBOARD BOX,12" x 8" x 8"



NOTE: THIS KIT SHOULD BE SHIPPED LOOSE. IT MUST BE FITTED TO THE PLOW/HITCH AT TIME OF INSTALL TO FIT PROPERLY

		TOLERANCES UNLESS OTHERWISE INDICATED DECIMALS .XX ± .06 .XXX ± .031		AUTHORIZATION DRAWN BY: TEG 4/9/1998 CHECKED BY: DRT 4/13/1998 APPROVED BY: DPP 4/13/1998				1051 West 7th Street Monroe, WI 53566-9100 808/328-8127	
REV. ECN-12616, UPDATES VIEW CHG CARDBD BOX ECR # 1865 RELEASED		MND TLC 11/16/2015 SOB TJS 06-02-2004 JES SB 07-15-1998 JUR DPP 04-13-1998		SO FT: THRD ANGLE PROJECTION ANGULAR 1:1 		LBS: MPG CODE A		TITLE ROLLER KIT, HITCH, HUSTING	
REVISION 1		INITIALS 2		DATE 3		SIZE B		SCALE .2" = 1"	
				REV. NO: 3		PART NUMBER 00043300		SHEET 1 of 1	

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART A: CAB AND CHASSIS

MINIMUM SPECIFICATIONS	FURNISHED
ENGINE	
A. DIESEL ENGINE RATED 350 - HP @ 1000 RPM AND 1000 lb.-ft. TORQUE @ 1200 RPM MINIMUM	
B. MEETS 2019 FEDERAL EMISSION STANDARDS WITH UREA – DIESEL EXHAUST FLUID	
C. FUEL FILTER WITH 120 VOLT ELECTRIC PRE-HEATER	
D. HEAVY DUTY OIL COOLER	
E. HEAVY DUTY COOLING SYSTEM	
F. HORIZONTAL EXHAUST SYSTEM WITH VERTICAL TAILPIPE CONFIGURATION OF DIESEL PARTICULATE FILTER SO AS NOT TO INTERFERE WITH THE MOUNTING OF THE DUMP BOX, COMBINATION OIL-FUEL TANK AND UNDERBODY SCRAPER	
G. COOLANT FILTER REPLACEABLE "SPIN-ON"	
H. AIR FILTER DRY TYPE WITH IN CAB FILTER REMINDER	
ELECTRICAL	
A. HEAVY DUTY ALTERNATOR RATED AT 160 AMPERE MINIMUM	
B. BATTERIES, MOUNTED FOR CLEAN FRAME RAILS, IN CAB PREFERRED: <ol style="list-style-type: none"> 1. HEAVY DUTY 12 VOLT BATTERIES 2. EASY ACCESS JUMP START PROVISION 3. SPARE CIRCUITS/SWITCHES/WIRING FOR ROOF MOUNTED STROBES, REAR BOX STROBES, FORWARD CAB GUARD STROBES AND FOR ADDITIONAL CAB MOUNTED PLOW LIGHTS AND LED LIGHT TO SHINE ON REAR PLOW WING WHEN IN USE, IN CAB CONNECTIONS 4. TRUCK ELECTRICAL SYSTEMS SHALL BE SUPPRESSED AND SHALL NOT AFFECT AGENCY RADIO EQUIPMENT 5. BATTERY DISCONNECT SWITCH 	
TRANSMISSION	
A. ALLISION WORLD HD TRANSMISSION 3500 RDS 5-SPEED WIDE RATIO OR EQUIVALENT	
B. PUSH BUTTON ALLISION SHIFT CONTROL – DASH MOUNTED LOCATION OR EQUIVALENT	
C. EXTERNAL FLUID FILTER (SPIN ON)	
D. HEAVY DUTY TRANSMISSION COOLER	
E. TRANSMISSION CONTROL MODULE MOUNTED INSIDE THE CAB SO AS NOT TO BE EXPOSED TO THE OUTSIDE ELEMENTS	
FRAME	
A. HEAVY DUTY STRAIGHT RAIL FULL LENGTH CHANNEL NO LESS THAN 120,000 PSI YIELD STRENGTH	

MINIMUM SPECIFICATIONS	FURNISHED
B. CONVENTIONAL REINFORCEMENT	
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	30k hitch and RV plug
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	
B. GREASABLE DRAG LINK AND TIE ROD ENDS	
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION – 40,000 lb. CAPACITY OR EQUIVALENT	
E. WHEELBASE: 185" – 200"	
F. APPROXIMATELY 134" – 138" CAB TO AXLE <ul style="list-style-type: none"> 1. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX. 	
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX – MODEL # TU-FLO-550 OR EQUIVALENT	
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WITH HEATER OR EQUIVALENT	
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	
TIRES/WHEELS	
A. FRONT <ul style="list-style-type: none"> 1. 315/80 R22.5 18 PLY HUB PILOTTED DICS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
B. REAR <ul style="list-style-type: none"> 1. 11R 22.5 14 PLY HUB PILOTTED DICS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
FUEL TANK AND HYDRAULIC TANK <i>Monroe fuel/oil combo</i>	
B. MINIMUM 50 GALLON DIESEL , FRAME MOUNTED LEFT-HAND RAIL, UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	80 gallons of fuel and 31 gallons of oil behind cab, see attached drawing.

MINIMUM SPECIFICATIONS	FURNISHED
CAB EXTERIOR	
A. CONVENTIONAL GALVANIZED STEEL CAB	
B. ONE PIECE MOLDED RUBBER FLOOR MAT	
C. TILT FORWARD HOOD AND FENDERS WITH BUTTERFLY OPENINGS FOR EASY ACCESS TO THE ENGINE	
D. PASSENGER LOWER DOOR WINDOW	
E. STAINLESS STEEL MIRRORS WITH HEAVY DUTY HARDWARE WITH AUXILIARY CONVEX MIRRORS - HEATED	
F. STAINLESS STEEL DUAL OUTSIDE GRAB HANDLES	
G. DOME LIGHT ACTIVATED BY DOOR SWITCHES	
H. DUAL, HEAVY DUTY ELECTRIC TWO-SPEED WINDSHIELD WIPER WITH INTERMITTENT SPEED CONTROL AND ELECTRIC WASHER	
I. CAB CLEARANCE L.E.D. LIGHTS LOCATED ON OUTER FRONT EDGE OF CAB TOP	
J. 4-WAY HAZARD SWITCH AS REQUIRED TO OPERATE ALL TURN SIGNAL LIGHTS SIMULTANEOUSLY IN A FLASHING MODE WITH A HEAVY DUTY FLASHER	
K. REFLECTORS AS REQUIRED BY MICHIGAN STATE LAW	
L. STANDARD HALOGEN or LED SEALED BEAM HEADLIGHTS	
CAB INTERIOR	
A. HEAVY DUTY HEATER AND DEFROSTER	
B. DRIVER AND PASSENGER SUN VISORS	
C. TILT/TELESCOPIC STEERING WHEEL	
D. AIR SUSPENSION, HIGH BACK DRIVER'S SEAT WITH DUAL ARM RESTS AND NON SUSPENSION, SINGLE PASSENGER SEAT WITH DUAL ARM RESTS	
E. GRAB HANDLES FOR CAB EASY ENTRANCE AND EXIT	
F. AM/FM RADIO	
G. INSTRUMENT AND WARNING SYSTEMS <ul style="list-style-type: none"> 1. SPEEDOMETER, ODOMETER, TACHOMETER, HOUR METER, ENGINE COOLANT TEMPERATURE GAUGE WITH HIGH RECOMMENDED TEMPERATURE WARNING LIGHT & BUZZER, AIR PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT & BUZZER, ENGINE OIL PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT AND BUZZER, TRANSMISSION TEMPERATURE GAUGE, MANIFOLD PRESSURE GAUGE, VOLTMETER AND ENGINE AIR FILTER RESTRICTION GAUGE-IN-DASH MOUNTED FILTER MINDER 	
MISCELLANEOUS	
A. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. ENGINE: 60 MONTHS, 100,000 MILES	

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART B BODY PACKAGE

MINIMUM SPECIFICATIONS	FURNISHED
DUMP BOX <i>Crysteel Select</i>	<i>5 year warranty</i>
A. LENGTH: 14 FEET	<i>14'10"</i>
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH – 62" FRONT, 48" SIDES AND 56" TAILGATE	<i>X</i>
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	<i>X</i>
D. 1/4 " AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR	<i>X</i>
E. 8" I – BEAM CROSSMEMBERLESS UNDERSTRUCTURE	<i>X</i>
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP	<i>X</i>
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE	<i>Integrated into body</i>
H. ONE (1) ½" x 7" OFFSET TAILGATE HINGE PLATE	<i>X</i>
I. AIR TAILGATE RELEASE	<i>X</i>
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS	<i>X</i>
K. GRIPSTRUT WALKRAILS BOTH SIDE	<i>X</i>
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX	<i>X</i>
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES	<i>X</i>
N. GRAB HANDLE ON FRONT DRIVERS SIDE	<i>X</i>
O. DUAL BODY PROPS	<i>X</i>
P. ½ x 10 GA. x 78" CAB SHIELD 100% WELDED	<i>X</i>
Q. BACK UP ALARM	<i>X</i>
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM	<i>X</i>
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUS	<i>X</i>
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS	<i>X</i>
U. BOX VIBRATOR	<i>X</i>
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER	<i>X</i>
STANDARD DUMP BOX OPTION COST:	<i>see last page</i>
STAINLESS STEEL DUMP BOX OPTION COST:	<i>see last page</i>
HOIST FOR DUMP BODY <i>Dana trunion mount 6" diameter 4 stage 138" stroke</i>	<i>5 year warranty</i>
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR	<i>X</i>
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING	<i>X</i>
C. THE HOIST SHALL HAVE A ¼" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE	<i>X</i>
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI	<i>X</i>

MINIMUM SPECIFICATIONS	FURNISHED
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	X
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	X
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	X
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNNESS OF 80 DEGREES ROCKWELL "B"	X
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	X
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	X
LIGHTS	
A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT: <ol style="list-style-type: none"> 1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS' 4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS 5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK 	X
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	X
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY Monroe MS4512	
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	X
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	X
C. HARDENED 5" CENTER PIN WITH THREE ¾" MOUNTING BOLTS	X
D. 2 ½" DIAMETER HINGE SHAFT	X
E. (2) HEAVY DUTY SHOCK ABSORBERS	X
F. (2) 3 ½" ACTUATING CYLINDERS	X
G. 400 PSI CUSHION VALVE	X
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	X
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	X
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	X
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	X
L. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
M. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
N. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
O. SOLID ¾" THICK MOUNTING BRACKETS	X

MINIMUM SPECIFICATIONS	FURNISHED
P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	X
REAR MOUNTED FULL TRIP WING <i>Monroe 9' Para-glide full trip rear mount</i>	
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	X
B. PARA -GLIDE WING POST	X
C. CUSTOM HEAVY DUTY WING STOP	X
D. 3/16" TAPERED MOLDBOARD	X
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	X
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	X
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) 3/4" ORB	X
H. MANUAL LOCK OUT WITH SAFETY CHAIN	X
I. LIFT CYLINDER FROM REAR UPPER POSITION	X
HYDRAULICS	
A. PUMP <ul style="list-style-type: none"> 1. CAST IRON CONSTRUCTION – FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING 2. 35 GPM AT 2000 RPM 3. DIRCT DRIVE OFF CRANKSHAFT 4. IN-LINE HYDRAULIC FILTER 	X
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB <ul style="list-style-type: none"> 1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB 	X
C. CONTROL SEQUENCE FROM DRIVER <ul style="list-style-type: none"> 1. DUMP BOX 2. UNDERBODY SCRAPER 3. FRONT PLOW 4. REAR MOUNT WING 	X
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	X
E. HYDRAULIC VALVE BANK – GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	X
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	X
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	X
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	<i>Reuse factory bumper per Wendy/Steve</i>
ONE-WAY FRONT PLOW FUNCTION OPTION COST:	<i>see last page</i>
FOUR-WAY FRONT PLOW FUNCTION OPTION COST:	<i>see last page</i>

MINIMUM SPECIFICATIONS	FURNISHED
OPTIONAL FRONT – MOUNTED, SLOTTED TRIP PLOW	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	X
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	X
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	X
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	X
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	X
F. CASTOR TYPE ADJUSTABLE SKIDS	X
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	X
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	X
I. QUICK HITCH	X
OPTIONAL FRONT-MOUNTED PLOW COST:	see last page
TARP Aero 550 electric tarp system	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	X
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	
F.O.B. BODY LOCATIONS OR EQUIVALENT	
A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC.	

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
 Assistant Superintendent
 Department of Public Works
 City of Escanaba

Office: (906) 786 - 1842

BIDDER'S PROPOSAL

DATE: 8-26-19

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

\$ 168,188.00 total w/ Monroc Truck

MAKE: International HV607 SBA w/ Monroc Equipment

MODEL: HV607 SBA

DELIVERY DATE: Chassis only @ 90-100 days

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ Bid Bond # A310
(Must be included to qualify)

Submitted By:

FIRM: UP International Trucks Inc

ADDRESS: 1802 North 21st Street, Escanaba, MI 49829

BY: Mark Winkler, Sales Agent

TITLE: Vocational Sales

PRINTED NAME: Mark W. Winkler

Add \$ 7840.00 per Truck Equipment package

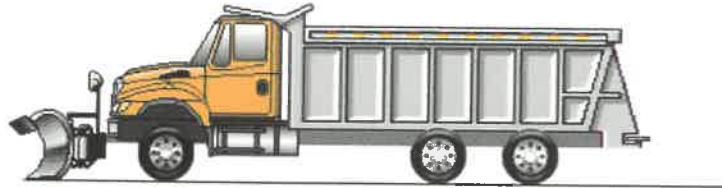
Add \$ 8959.00 per Olson Trailer + Body Package

INTERNATIONAL®

August 26, 2019

Prepared For:
CITY OF ESCANABA
Wendy Taavola
410 Ludington St.
Escanaba, MI 49829-3924
(906)786 - 1842
Reference ID: N/A

Presented By:
UP INTL TRKS, INC.
Mark Winkler
PO BOX 883
IRON MOUNTAIN MI 498010883
906-774-8900



Model Profile
2020 HV607 SBA (HV607)

AXLE CONFIG:	6X4
APPLICATION:	Front Plow and Wing with Spreader
MISSION:	Requested GVWR: 43000. Calc. GVWR: 58000 Calc. Start / Grade Ability: 30.82% / 2.81% @ 55 MPH Calc. Geared Speed: 67.5 MPH
DIMENSION:	Wheelbase: 191.00, CA: 123.90, Axle to Frame: 77.00
ENGINE, DIESEL:	{Cummins L9 350} EPA 2017, 350HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 350 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 3000 RDS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Meritor MFS-18-133A} Wide Track, I-Beam Type, 18,000-lb Capacity
AXLE, REAR, TANDEM:	{Meritor MT-40-14X-5DCR-P} Single Reduction, 40,000-lb Capacity, with Lube Oil Pump, w/ 5"(12.7mm) Wall Housing Thickness, Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle, R Wheel Ends Gear Ratio: 6.14
CAB:	Conventional, Day Cab
TIRE, FRONT:	(2) 315/80R22.5 Load Range L HAU 3 WT (CONTINENTAL), 480 rev/mile, 68 MPH, All-Position
TIRE, REAR:	(8) 11R22.5 Load Range H HDO (CONTINENTAL), 490 rev/mile, 68 MPH, Drive
SUSPENSION, REAR, AIR, TANDEM:	{Hendrickson PRIMAAX EX} 46,000-lb Capacity, 55" Axle Spacing, 9.0" Ride Height, with Shock Absorbers
PAINT:	Cab schematic 100WL Location 1: 4421, School Bus Yellow (Std) Chassis schematic N/A

<u>Code</u>	<u>Description</u>
HV60700	Base Chassis, Model HV607 SBA with 191.00 Wheelbase, 123.90 CA, and 77.00 Axle to Frame.
1570	TOW HOOK, FRONT (2) Frame Mounted
1572	TOW HOOK, REAR (2)
1AND	AXLE CONFIGURATION {Navistar} 6x4
	<u>Notes</u> : Pricing may change if axle configuration is changed.
1CAJ	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.866" x 3.622" x 0.437" (276.0mm x 92.0mm x 11.1mm); 456.0" (11582mm) Maximum OAL
1LLA	BUMPER, FRONT Swept Back, Steel, Heavy Duty
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille
1WDU	CROSSMEMBER, FRONT for Hydraulic Pump, Mounting Flange to Accommodate Pump
1WGX	WHEELBASE RANGE 169" (430cm) Through and Including 219" (555cm)
1WMA	CROSSMEMBER, INTERMEDIATE (1) 5-Piece in lieu of Each Single Dogbone with 4x2 & 4x4 Chassis; Each Double Dogbone with 6x4, 6x6 & 8x6 Tridem Chassis
2ARZ	AXLE, FRONT NON-DRIVING {Meritor MFS-18-133A} Wide Track, I-Beam Type, 18,000-lb Capacity
3ACR	SUSPENSION, FRONT, SPRING Multileaf, Shackle Type, 18,000-lb Capacity, Less Shock Absorbers
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications
	<u>Includes</u> : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SLACK ADJUSTERS, FRONT Automatic (with Air Cam Brakes) : SLACK ADJUSTERS, REAR Automatic (with Air Cam Brakes) : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6
4193	BRAKES, FRONT, AIR CAM 16.5" x 8", Includes 24 SqIn Long Stroke Brake Chambers
4619	TRAILER CONNECTIONS Four-Wheel, with Hand Control Valve and Tractor Protection Valve, for Straight Truck
	<u>Notes</u> : When electronic stability control is ordered with trailer connections on a 4x2 truck, please check the operator manual for trailer weight restrictions.
4722	DRAIN VALVE {Bendix DV-2} Automatic, with Heater, for Air Tank
4AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)
4EBS	AIR DRYER {Bendix AD-9} with Heater
4EXU	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Spring Brake
4EXV	BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 SqIn
4NDB	BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM
4VHZ	AIR TANK LOCATION (2) Mounted Under Cab, Outside Left Rail, on Step Bracket, with Ground Clearance

<u>Code</u>	<u>Description</u>
4VKC	AIR DRYER LOCATION Mounted Inside Left Rail, Back of Cab
4WBX	DUST SHIELDS, FRONT BRAKE for Air Brakes
4WDM	DUST SHIELDS, REAR BRAKE for Air Brakes
5710	STEERING COLUMN Tilting and Telescoping
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black
5PTB	STEERING GEAR (2) {Sheppard M100/M80} Dual Power
6DGZ	DRIVELINE SYSTEM {Dana Spicer} 1710 Main Driveline with 1710 Interaxle Shaft, for 6x4
7BEV	AFTERTREATMENT COVER Steel, Black
7BLG	EXHAUST SYSTEM Single, Horizontal Aftertreatment Device, Frame Mounted Right Side Under Cab, Includes Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab, for Improved Ground Clearance
7WAZ	TAIL PIPE (1) Tumbback Type
7WCM	EXHAUST HEIGHT 8" 10"
7WDN	MUFFLER/TAIL PIPE GUARD (1) Aluminum
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment
	<u>Includes</u>
	: DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab
	: HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel
	: HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever
	: PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light
	: STARTER SWITCH Electric, Key Operated
	: STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector
	: TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature
	: WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever
	: WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted
	: WIRING, CHASSIS Color Coded and Continuously Numbered
8518	CIGAR LIGHTER Includes Ash Cup
8899	JUMP START STUD (2) Remote Mounted
8GXD	ALTERNATOR {Leece-Neville AVI160P2013} Brush Type; 12 Volt 160 Amp. Capacity, Pad Mount, with Remote Sense
8HAB	BODY BUILDER WIRING Back of Day Cab at Left Frame or Under Sleeper, Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
8MMG	BATTERY SYSTEM {Deka/EAST PENN 9A31 AGM} Maintenance-Free, (3) AGM 12-Volt 2775CCA Total, Top Threaded Stud
8RGA	2-WAY RADIO Wiring Effects; Wiring with 20 Amp Fuse Protection, Includes Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and Routed to Center of Header Console in Cab
8RML	RADIO AM/FM/WB/Clock/Bluetooth/USB Input/3.5MM Auxiliary Input, MP3, Apple Device Play & Control, Bluetooth for Phone & Music
8RMZ	SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in Both B-Pillars
8RPB	RADIO, AUXILIARY CONTROLS Mounted in Steering Wheel, Radio Function Control Switch, Includes Volume Up/Down, Mute, Forward/Back and Bluetooth Answer/Disconnect

<u>Code</u>	<u>Description</u>
8THJ	AUXILIARY HARNESS 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications
8THN	TURN SIGNAL SWITCH with Hazard Flasher Overrides Brake, To be Done with Programming System Controller
8TMG	TRAILER CONNECTION SOCKET 7-Way; Mounted at Rear of Frame, Wired for Turn Signals Combined with Stop, Compatible with Trailers That Use Combined Stop, Tail, Turn Lamps
8VAY	HORN, ELECTRIC Disc Style
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm
8WXB	HEADLIGHT WARNING BUZZER Sounds When Head Light Switch is on and Ignition Switch is in "Off" Position
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened
8WXG	STARTING MOTOR {Mitsubishi Electric Automotive America 105P} 12-Volt, with Soft-Start
8WZP	INDICATOR, BATTERY WARNING Green BATTERY ON Indicator, Mounted on Left Side of Instrument Panel, To be Used with Factory Installed or Customer Mounted Battery Disconnect Switch
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses
8XDZ	BATTERY BOX Steel, 2-3 Battery Capacity, Mounted Inside the Cab, Under Passenger Seat
8XGT	TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender
8XHD	BATTERY DISCONNECT SWITCH 300 Amp; Cab Mounted, Disconnects Charging Circuits; Locks with Padlock
8XHN	HORN, AIR Black, Single Trumpet, with Lanyard Pull Cord
8XHR	POWER SOURCE, ADDITIONAL Auxiliary Power Outlet (APO) & USB Port, Located in the Instrument Panel
9585	FENDER EXTENSIONS Rubber
9AAB	LOGOS EXTERIOR Model Badges
9AAE	LOGOS EXTERIOR, ENGINE Badges
9ANG	HOOD, HATCH (01) for Servicing
9HBM	GRILLE Stationary, Chrome
9WAC	BUG SCREEN Mounted Behind Grille
9WBC	FRONT END Tilting, Fiberglass, with Three Piece Construction, for WorkStar/HV
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100 <u>Includes</u> : PAINT SCHEMATIC ID LETTERS "WL"
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
10SLV	PROMOTIONAL PACKAGE Government Silver Package
11001	CLUTCH Omit Item (Clutch & Control)

<u>Code</u>	<u>Description</u>
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection
12849	BLOCK HEATER, ENGINE 120V/1000W, for Cummins ISB/B6.7/ISL/L9 Engines <u>Includes</u> : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door
12851	PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine Front Mounted
12EHX	ENGINE, DIESEL {Cummins L9 350} EPA 2017, 350HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 350 Peak HP (Max)
12THT	FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed with Residual Torque Device for Disengaged Fan Speed <u>Includes</u> : FAN Nylon
12UWZ	RADIATOR Cross Flow, Series System; 1228 SqIn Aluminum Radiator Core with Internal Water to Oil Transmission Cooler and 1167 In Charge Air Cooler <u>Includes</u> : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps : RADIATOR HOSES Premium, Rubber
12VAL	AIR CLEANER Dual Element, with Integral Snow Valve and In-Cab Control
12VGZ	FEDERAL EMISSIONS {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2019
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel
12VYL	ACCESSORY WIRING, SPECIAL for Road Speed Wire Coiled Under Instrument Panel for Customer Use
12WBR	FAN OVERRIDE Manual; with Electric Switch on Instrument Panel, (Fan On with Switch On)
12WZE	EMISSION COMPLIANCE Federal, Does Not Comply with California Clean Air Idle Regulations
12XAT	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; with Ignition Switch Control for Cummins ISB/B6.7 or ISL/L9 Engines
13AVR	TRANSMISSION, AUTOMATIC {Allison 3000 RDS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway
13WET	TRANSMISSION SHIFT CONTROL for Column Mounted Stalk Shifter
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction
13WYH	TRANSMISSION TCM LOCATION Located Inside Cab
13WYU	SHIFT CONTROL PARAMETERS Allison 3000 or 4000 Series Transmissions, 5th Generation Controls, Performance Programming
13XAN	PTO LOCATION Customer Does Not Intend to Install PTO
14899	SUSPENSION AIR CONTROL VALVE Pressure Release Control In Cab
14GVM	AXLE, REAR, TANDEM {Meritor MT-40-14X-5DCR-P} Single Reduction, 40,000-lb Capacity, with Lube Oil Pump, w/.5"(12.7mm) Wall Housing Thickness, Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle, R Wheel Ends . Gear Ratio: 6.14
14UNX	SUSPENSION, REAR, AIR, TANDEM {Hendrickson PRIMAAAX EX} 46,000-lb Capacity, 55" Axle Spacing, 9.0" Ride Height, with Shock Absorbers

<u>Code</u>	<u>Description</u>
15LMN	FUEL/WATER SEPARATOR {Racor 400 Series,} 12 VDC Electric Heater, Includes Pre-Heater, with Primer Pump, Includes Water-in-Fuel Sensor
15LMU	LOCATION FUEL/WATER SEPARATOR Mounted Outside Left Rail, 8" Back of Cab
15SSC	FUEL TANK Temporary, Top Draw, Non-Polished Aluminum, D-Style, 16" Tank Depth, 50 US Gal (189L), Mounted Left Side, Back of Cab
15WDG	DEF TANK 7 US Gal (26L) Capacity, Frame Mounted Outside Left Rail, Under Cab
16030	CAB Conventional, Day Cab
16564	HEATER SHUT-OFF VALVES (1) Ball Valve Type, Supply Line
16BAL	HEATER
16GDC	GAUGE CLUSTER Base Level; English with English Speedometer and Tachometer, for Air Brake Chassis, Includes Engine Coolant Temperature, Primary and Secondary Air Pressure, Fuel and DEF Gauges, Oil Pressure Gauge, Includes 3 Inch Monochromatic Text Display
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission
16HHE	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} with Black Bezel, Mounted in Instrument Panel
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
16JNT	SEAT, DRIVER {National 2000} Air Suspension, High Back with Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, with 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust
16SDC	GRAB HANDLE, EXTERIOR (2) Chrome, Towel Bar Type, with Anti-Slip Rubber Inserts, for Cab Entry Mounted Left and Right Side at "B" Pillar
16SMY	SEAT, PASSENGER {Seats, Inc.} Non Suspension, High Back, Fixed Back, Integral Headrest, Vinyl, for use with Batteries in Cab
16SNR	MIRRORS (2) C-Loop, Power Adjust, Heated, LED Clearance Lights, Bright Heads and Arms, 7.5" x 14" Flat Glass, Includes 7.5" x 7" Convex Mirrors, for 102" Load Width
	<u>Notes</u> : Mirror Dimensions are Rounded to the Nearest 0.5"
16VKB	CAB INTERIOR TRIM Classic, for Day Cab
	<u>Includes</u> : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger : DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Overhead Console, Center Mounted : SUN VISOR (2) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Toll Ticket Strap
16WBY	ARM REST, RIGHT, DRIVER SEAT
16WEE	CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator
16WSK	CAB REAR SUSPENSION Air Bag Type
16XCK	WINDOW, MANUAL (2) and Manual Door Locks, Left and Right Doors
16XJN	INSTRUMENT PANEL Flat Panel
16ZBT	ACCESS, CAB Steel, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab and Extended Cab
26DUL	WHEEL, SPARE, DISC {Accuride 29300} 22.5x9.00 Rims, Powder Coat Steel, 10-Stud, 285.75mm BC, Hub-Piloted

<u>Code</u>	<u>Description</u>
27DUL	WHEELS, FRONT {Accuride 29300} DISC; 22.5x9.00 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs
28DTT	WHEELS, REAR {Accuride 28828} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and with Steel Hubs
60AAG	BDY INTG, REMOTE POWER MODULE Mounted Inside Cab Behind Driver Seat, Up to 6 Outputs & 6 Inputs, Max 20 amp per Channel, Max 80 amp Total; Includes 1 Switch Pack with Latched Switches
7382135413	(8) TIRE, REAR 11R22.5 Load Range H HDO (CONTINENTAL), 490 rev/mile, 68 MPH, Drive
7792545437	(2) TIRE, FRONT 315/80R22.5 Load Range L HAU 3 WT (CONTINENTAL), 480 rev/mile, 68 MPH, All-Position

Services Section:

40128	WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2025A
40SZD	SRV CONTRACT, EXT CMS ENG/AFTR {Cummins} To 60-Month/100,000 Miles (160,000 km), Extended Cummins L9 Engine Coverage, Protection Plan 1 and Aftertreatment
1	Monroe

<u>Description</u>	<u>(US DOLLAR)</u>	<u>Price</u>
Factory List Prices:		
Product Items	\$149,639.00	
Service Items	\$4,380.00	
Total Factory List Price Including Options:		\$154,019.00
Ziebart	\$350.00	
Wing view window	\$925.00	
rear rim	\$150.00	
Total Preparation And Delivery:		\$1,425.00
Freight	\$2,950.00	
Total Freight:		\$2,950.00
Total Factory List Price Including Freight:		\$158,394.00
Less Customer Allowance:		(\$59,981.00)
Total Vehicle Price:		\$98,413.00
Total Body/Allied Equipment:		\$69,775.00
Total Sale Price:		\$168,188.00
Total Per Vehicle Sales Price:		\$168,188.00
Net Sales Price:		\$168,188.00

Please feel free to contact me regarding these specifications should your interests or needs change. I am confident you will be pleased with the quality and service of an International vehicle.

Approved by Seller:

Accepted by Purchaser:

Official Title and Date

Firm or Business Name

Authorized Signature

Authorized Signature and Date

This proposal is not binding upon the seller without Seller's Authorized Signature

Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

The limited warranties applicable to the vehicles described herein are Navistar, Inc.'s standard printed warranties which are incorporated herein by reference and to which you have been provided a copy and hereby agree to their terms and conditions.

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART A: CAB AND CHASSIS

MINIMUM SPECIFICATIONS	FURNISHED
ENGINE	
A. DIESEL ENGINE RATED 350 - HP @ 1000 RPM AND 1000 lb.-ft. TORQUE @ 1200 RPM MINIMUM	X
B. MEETS 2019 FEDERAL EMISSION STANDARDS WITH UREA – DIESEL EXHAUST FLUID	X
C. FUEL FILTER WITH 120 VOLT ELECTRIC PRE-HEATER	✓
D. HEAVY DUTY OIL COOLER	X
E. HEAVY DUTY COOLING SYSTEM	✓
F. HORIZONTAL EXHAUST SYSTEM WITH VERTICAL TAILPIPE CONFIGURATION OF DIESEL PARTICULATE FILTER SO AS NOT TO INTERFERE WITH THE MOUNTING OF THE DUMP BOX, COMBINATION OIL-FUEL TANK AND UNDERBODY SCRAPER	✓
G. COOLANT FILTER REPLACEABLE "SPIN-ON"	N/A
H. AIR FILTER DRY TYPE WITH IN CAB FILTER REMINDER	X
ELECTRICAL	
A. HEAVY DUTY ALTERNATOR RATED AT 160 AMPERE MINIMUM	X
B. BATTERIES, MOUNTED FOR CLEAN FRAME RAILS, IN CAB PREFERRED: <ol style="list-style-type: none"> 1. HEAVY DUTY 12 VOLT BATTERIES 2. EASY ACCESS JUMP START PROVISION 3. SPARE CIRCUITS/SWITCHES/WIRING FOR ROOF MOUNTED STROBES, REAR BOX STROBES, FORWARD CAB GUARD STROBES AND FOR ADDITIONAL CAB MOUNTED PLOW LIGHTS AND LED LIGHT TO SHINE ON REAR PLOW WING WHEN IN USE, IN CAB CONNECTIONS 4. TRUCK ELECTRICAL SYSTEMS SHALL BE SUPPRESSED AND SHALL NOT AFFECT AGENCY RADIO EQUIPMENT 5. BATTERY DISCONNECT SWITCH 	X
TRANSMISSION	
A. ALLISION WORLD HD TRANSMISSION 3500 RDS 5-SPEED WIDE RATIO OR EQUIVALENT	X
B. PUSH BUTTON ALLISION SHIFT CONTROL – DASH MOUNTED LOCATION OR EQUIVALENT	Stalk
C. EXTERNAL FLUID FILTER (SPIN ON)	✓
D. HEAVY DUTY TRANSMISSION COOLER	X
E. TRANSMISSION CONTROL MODULE MOUNTED INSIDE THE CAB SO AS NOT TO BE EXPOSED TO THE OUTSIDE ELEMENTS	✓
FRAME	
A. HEAVY DUTY STRAIGHT RAIL FULL LENGTH CHANNEL NO LESS THAN 120,000 PSI YIELD STRENGTH	X

MINIMUM SPECIFICATIONS	FURNISHED
B. CONVENTIONAL REINFORCEMENT	X
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	X
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	X
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	f
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	✓
B. GREASABLE DRAG LINK AND TIE ROD ENDS	✓
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	✓
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION - 40,000 lb. CAPACITY OR EQUIVALENT	X
E. WHEELBASE: 185" - 200"	✓
F. APPROXIMATELY 134" - 138" CAB TO AXLE <ol style="list-style-type: none"> 1. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX. 	✓
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	X
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX - MODEL # TU-FLO-550 OR EQUIVALENT	X
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	✓
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	✓
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WIITH HEATER OR EQUIVALENT	✓
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	✓
TIRES/WHEELS	
A. FRONT <ol style="list-style-type: none"> 1. 315/80 R22.5 18 PLY HUB PILOTED DICS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	X Rim only - No Tire
B. REAR <ol style="list-style-type: none"> 1. 11R 22.5 14 PLY HUB PILOTED DICS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	✓ Rim Only - No Tire
FUEL TANK AND HYDRAULIC TANK	
B. MINIMUM 50 GALLON DIESEL , FRAME MOUNTED LEFT-HAND RAIL, UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	✓

.500 option available

Front tire - optional cost \$ 765 = additional
 Rear tire - optional cost \$ 780 = additional
 .500 Front rail cost \$ 1131 = additional

MINIMUM SPECIFICATIONS	FURNISHED
CAB EXTERIOR	
A. CONVENTIONAL GALVANIZED STEEL CAB	X
B. ONE PIECE MOLDED RUBBER FLOOR MAT	X
C. TILT FORWARD HOOD AND FENDERS WITH BUTTERFLY OPENINGS FOR EASY ACCESS TO THE ENGINE	X
D. PASSENGER LOWER DOOR WINDOW	X
E. STAINLESS STEEL MIRRORS WITH HEAVY DUTY HARDWARE WITH AUXILIARY CONVEX MIRRORS - HEATED	X
F. STAINLESS STEEL DUAL OUTSIDE GRAB HANDLES	X
G. DOME LIGHT ACTIVATED BY DOOR SWITCHES	X
H. DUAL, HEAVY DUTY ELECTRIC TWO-SPEED WINDSHIELD WIPER WITH INTERMITTENT SPEED CONTROL AND ELECTRIC WASHER	X
I. CAB CLEARANCE L.E.D. LIGHTS LOCATED ON OUTER FRONT EDGE OF CAB TOP	X
J. 4-WAY HAZARD SWITCH AS REQUIRED TO OPERATE ALL TURN SIGNAL LIGHTS SIMULTANEOUSLY IN A FLASHING MODE WITH A HEAVY DUTY FLASHER	X
K. REFLECTORS AS REQUIRED BY MICHIGAN STATE LAW	X
L. STANDARD HALOGEN or LED SEALED BEAM HEADLIGHTS	X
CAB INTERIOR	
A. HEAVY DUTY HEATER AND DEFROSTER	X
B. DRIVER AND PASSENGER SUN VISORS	X
C. TILT/TELESCOPIC STEERING WHEEL	X
D. AIR SUSPENSION, HIGH BACK DRIVER'S SEAT WITH DUAL ARM RESTS AND NON SUSPENSION, SINGLE PASSENGER SEAT WITH DUAL ARM RESTS	X
E. GRAB HANDLES FOR CAB EASY ENTRANCE AND EXIT	X
F. AM/FM RADIO	X
G. INSTRUMENT AND WARNING SYSTEMS 1. SPEEDOMETER, ODOMETER, TACHOMETER, HOUR METER, ENGINE COOLANT TEMPERATURE GAUGE WITH HIGH RECOMMENDED TEMPERATURE WARNING LIGHT & BUZZER, AIR PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT & BUZZER, ENGINE OIL PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT AND BUZZER, TRANSMISSION TEMPERATURE GAUGE, MANIFOLD PRESSURE GAUGE, VOLTMETER AND ENGINE AIR FILTER RESTRICTION GAUGE-IN-DASH MOUNTED FILTER MINDER	X
MISCELLANEOUS	
A. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	X
WARRANTY	
A. ENGINE: 60 MONTHS, 100,000 MILES	X

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART B BODY PACKAGE

MINIMUM SPECIFICATIONS	FURNISHED
DUMP BOX <i>Crysteel Select</i>	<i>5 year warranty</i>
A. LENGTH: 14 FEET	<i>14'10"</i>
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH – 62" FRONT, 48" SIDES AND 56" TAILGATE	X
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	X
D. 1/4 " AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR	X
E. 8" I – BEAM CROSSMEMBERLESS UNDERSTRUCTURE	X
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP	X
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE	<i>Integrated into body</i>
H. ONE (1) 1/2" x 7" OFFSET TAILGATE HINGE PLATE	X
I. AIR TAILGATE RELEASE	X
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS	X
K. GRIPSTRUT WALKRAILS BOTH SIDE	X
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX	X
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES	X
N. GRAB HANDLE ON FRONT DRIVERS SIDE	X
O. DUAL BODY PROPS	X
P. 1/2 x 10 GA. x 78" CAB SHIELD 100% WELDED	X
Q. BACK UP ALARM	X
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM	X
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUS	X
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS	X
U. BOX VIBRATOR	X
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER	X
STANDARD DUMP BOX OPTION COST:	<i>see last page</i>
STAINLESS STEEL DUMP BOX OPTION COST:	<i>see last page</i>
HOIST FOR DUMP BODY <i>Dana trunion mount 6" diameter 4 stage 138" stroke</i>	<i>5 year warranty</i>
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR	X
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING	X
C. THE HOIST SHALL HAVE A 1/2" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE	X
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI	X

MINIMUM SPECIFICATIONS	FURNISHED
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	X
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	X
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	X
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNESS OF 80 DEGREES ROCKWELL "B"	X
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	X
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	X
LIGHTS	
A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT: <ul style="list-style-type: none"> 1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSES 2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSES 3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS' 4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS 5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK 	X
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	X
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY Monroe MS4512	
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	X
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	X
C. HARDENED 5" CENTER PIN WITH THREE ¾" MOUNTING BOLTS	X
D. 2 ½" DIAMETER HINGE SHAFT	X
E. (2) HEAVY DUTY SHOCK ABSORBERS	X
F. (2) 3 ½" ACTUATING CYLINDERS	X
G. 400 PSI CUSHION VALVE	X
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	X
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	X
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	X
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	X
L. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
M. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
N. ALL HINGES ARE GUSSETED WITH ½" MATERIAL	X
O. SOLID ¾" THICK MOUNTING BRACKETS	X

MINIMUM SPECIFICATIONS	FURNISHED
P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	X
REAR MOUNTED FULL TRIP WING <i>Monroe 9' Para-glide full trip rear mount</i>	
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	X
B. PARA -GLIDE WING POST	X
C. CUSTOM HEAVY DUTY WING STOP	X
D. 3/16" TAPERED MOLDBOARD	X
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	X
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	X
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) 3/4" ORB	X
H. MANUAL LOCK OUT WITH SAFETY CHAIN	X
I. LIFT CYLINDER FROM REAR UPPER POSITION	X
HYDRAULICS	
A. PUMP	
1. CAST IRON CONSTRUCTION – FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING	X
2. 35 GPM AT 2000 RPM	
3. DIRCT DRIVE OFF CRANKSHAFT	
4. IN-LINE HYDRAULIC FILTER	
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB	
1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB	X
C. CONTROL SEQUENCE FROM DRIVER	
1. DUMP BOX	
2. UNDERBODY SCRAPER	
3. FRONT PLOW	X
4. REAR MOUNT WING	
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	X
E. HYDRAULIC VALVE BANK – GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	X
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	X
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	X
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	<i>Reuse factory bumper per Wendy/Steve</i>
ONE-WAY FRONT PLOW FUNCTION OPTION COST:	<i>see last page</i>
FOUR-WAY FRONT PLOW FUNCTION OPTION COST:	<i>see last page</i>

MINIMUM SPECIFICATIONS	FURNISHED
OPTIONAL FRONT – MOUNTED, SLOTTED TRIP PLOW	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	X
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	X
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	X
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	X
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	X
F. CASTOR TYPE ADJUSTABLE SKIDS	X
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	X
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	X
I. QUICK HITCH	X
OPTIONAL FRONT-MOUNTED PLOW COST:	see last page
TARP Aero 550 electric tarp system	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	X
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	X
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	X
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	X
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	X
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	X
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	X
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	X
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	X

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	Y
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	X
F.O.B. BODY LOCATIONS OR EQUIVALENT	
A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC.	N/A

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba

Office: (906) 786 - 1842

BIDDER'S PROPOSAL

DATE: 8/23/19

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

\$ <u>69,775.00</u> equipment pricing	OPTIONS for the city to choose from: \$5,613.00 stainless sides/ends/floor in lieu of painted AR450 \$700.00 reversible plow control/valve/lines \$8,260.00 one way plow (MPFA39-52-12-ISCT) \$9,034.00 reversible plow (MP48R12-ISCT) \$948.00 husting truck portion roller pins and plow portion roller kit \$2,299.00 amber/green strobe and plow lights mounted to roof bar \$275.00 two fork/loop shovel holders \$375.00 electric brake control
MAKE: <u>Monroe Truck Equipment</u>	
MODEL: _____	

DELIVERY DATE: 180 days for equipment + 60-90 days after chassis and equipment arrives for upfit

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ Cashiers check for equipment portion supplied by Monroe
(Must be included to qualify)

Submitted By:

FIRM: Monroe Truck Equipment

ADDRESS: 1151 West Main Avenue De Pere WI. 54115

BY: Troy Redfearn

TITLE: District Sales Manager

PRINTED NAME: Troy Redfearn

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART A: CAB AND CHASSIS

MINIMUM SPECIFICATIONS	FURNISHED
ENGINE	
A. DIESEL ENGINE RATED 350 - HP @ 1000 RPM AND 1000 lb.-ft. TORQUE @ 1200 RPM MINIMUM	
B. MEETS 2019 FEDERAL EMISSION STANDARDS WITH UREA – DIESEL EXHAUST FLUID	
C. FUEL FILTER WITH 120 VOLT ELECTRIC PRE-HEATER	
D. HEAVY DUTY OIL COOLER	
E. HEAVY DUTY COOLING SYSTEM	
F. HORIZONTAL EXHAUST SYSTEM WITH VERTICAL TAILPIPE CONFIGURATION OF DIESEL PARTICULATE FILTER SO AS NOT TO INTERFERE WITH THE MOUNTING OF THE DUMP BOX, COMBINATION OIL-FUEL TANK AND UNDERBODY SCRAPER	
G. COOLANT FILTER REPLACEABLE "SPIN-ON"	
H. AIR FILTER DRY TYPE WITH IN CAB FILTER REMINDER	
ELECTRICAL	
A. HEAVY DUTY ALTERNATOR RATED AT 160 AMPERE MINIMUM	
B. BATTERIES, MOUNTED FOR CLEAN FRAME RAILS, IN CAB PREFERRED: <ol style="list-style-type: none"> 1. HEAVY DUTY 12 VOLT BATTERIES 2. EASY ACCESS JUMP START PROVISION 3. SPARE CIRCUITS/SWITCHES/WIRING FOR ROOF MOUNTED STROBES, REAR BOX STROBES, FORWARD CAB GUARD STROBES AND FOR ADDITIONAL CAB MOUNTED PLOW LIGHTS AND LED LIGHT TO SHINE ON REAR PLOW WING WHEN IN USE, IN CAB CONNECTIONS 4. TRUCK ELECTRICAL SYSTEMS SHALL BE SUPPRESSED AND SHALL NOT AFFECT AGENCY RADIO EQUIPMENT 5. BATTERY DISCONNECT SWITCH 	
TRANSMISSION	
A. ALLISION WORLD HD TRANSMISSION 3500 RDS 5-SPEED WIDE RATIO OR EQUIVALENT	
B. PUSH BUTTON ALLISION SHIFT CONTROL – DASH MOUNTED LOCATION OR EQUIVALENT	
C. EXTERNAL FLUID FILTER (SPIN ON)	
D. HEAVY DUTY TRANSMISSION COOLER	
E. TRANSMISSION CONTROL MODULE MOUNTED INSIDE THE CAB SO AS NOT TO BE EXPOSED TO THE OUTSIDE ELEMENTS	
FRAME	
A. HEAVY DUTY STRAIGHT RAIL FULL LENGTH CHANNEL NO LESS THAN 120,000 PSI YIELD STRENGTH	

MINIMUM SPECIFICATIONS	FURNISHED
B. CONVENTIONAL REINFORCEMENT	
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	X
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	X
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	
B. GREASABLE DRAG LINK AND TIE ROD ENDS	
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION – 40,000 lb. CAPACITY OR EQUIVALENT	
E. WHEELBASE: 185" – 200"	
F. APPROXIMATELY 134" – 138" CAB TO AXLE 1. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX.	
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX – MODEL # TU-FLO-550 OR EQUIVALENT	
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WITH HEATER OR EQUIVALENT	
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	
TIRES/WHEELS	
A. FRONT 1. 315/80 R22.5 18 PLY HUB PILOTTED DISCS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY	
B. REAR 1. 11R 22.5 14 PLY HUB PILOTTED DISCS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY	
FUEL TANK AND HYDRAULIC TANK	
B. MINIMUM 50 GALLON DIESEL , FRAME MOUNTED LEFT-HAND RAIL, UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	Mounted on top of frame between cab and dump body.

MINIMUM SPECIFICATIONS	FURNISHED
CAB EXTERIOR	
A. CONVENTIONAL GALVANIZED STEEL CAB	
B. ONE PIECE MOLDED RUBBER FLOOR MAT	
C. TILT FORWARD HOOD AND FENDERS WITH BUTTERFLY OPENINGS FOR EASY ACCESS TO THE ENGINE	
D. PASSENGER LOWER DOOR WINDOW	
E. STAINLESS STEEL MIRRORS WITH HEAVY DUTY HARDWARE WITH AUXILIARY CONVEX MIRRORS - HEATED	
F. STAINLESS STEEL DUAL OUTSIDE GRAB HANDLES	
G. DOME LIGHT ACTIVATED BY DOOR SWITCHES	
H. DUAL, HEAVY DUTY ELECTRIC TWO-SPEED WINDSHIELD WIPER WITH INTERMITTENT SPEED CONTROL AND ELECTRIC WASHER	
I. CAB CLEARANCE L.E.D. LIGHTS LOCATED ON OUTER FRONT EDGE OF CAB TOP	
J. 4-WAY HAZARD SWITCH AS REQUIRED TO OPERATE ALL TURN SIGNAL LIGHTS SIMULTANEOUSLY IN A FLASHING MODE WITH A HEAVY DUTY FLASHER	
K. REFLECTORS AS REQUIRED BY MICHIGAN STATE LAW	
L. STANDARD HALOGEN or LED SEALED BEAM HEADLIGHTS	
CAB INTERIOR	
A. HEAVY DUTY HEATER AND DEFROSTER	
B. DRIVER AND PASSENGER SUN VISORS	
C. TILT/TELESCOPIC STEERING WHEEL	
D. AIR SUSPENSION, HIGH BACK DRIVER'S SEAT WITH DUAL ARM RESTS AND NON SUSPENSION, SINGLE PASSENGER SEAT WITH DUAL ARM RESTS	
E. GRAB HANDLES FOR CAB EASY ENTRANCE AND EXIT	
F. AM/FM RADIO	
G. INSTRUMENT AND WARNING SYSTEMS <ul style="list-style-type: none"> 1. SPEEDOMETER, ODOMETER, TACHOMETER, HOUR METER, ENGINE COOLANT TEMPERATURE GAUGE WITH HIGH RECOMMENDED TEMPERATURE WARNING LIGHT & BUZZER, AIR PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT & BUZZER, ENGINE OIL PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT AND BUZZER, TRANSMISSION TEMPERATURE GAUGE, MANIFOLD PRESSURE GAUGE, VOLTMETER AND ENGINE AIR FILTER RESTRICTION GAUGE-IN-DASH MOUNTED FILTER MINDER 	
MISCELLANEOUS	
A. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. ENGINE: 60 MONTHS, 100,000 MILES	

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART B BODY PACKAGE

MINIMUM SPECIFICATIONS	FURNISHED
DUMP BOX	
A. LENGTH: 14 FEET	X
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH – 62" FRONT, 48" SIDES AND 56" TAILGATE	86" front to 88" rear ID. 54" tailgate
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	1/4" tailgate
D. 1/4" AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR	X
E. 8" I – BEAM CROSSMEMBERLESS UNDERSTRUCTURE	X
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP	Diamond fold
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE	X
H. ONE (1) 1/2" x 7" OFFSET TAILGATE HINGE PLATE	1"
I. AIR TAILGATE RELEASE	X
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS	Top rails turned to 45 degrees.
K. GRIPSTRUT WALKRAILS BOTH SIDE	X
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX	X
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES	X
N. GRAB HANDLE ON FRONT DRIVERS SIDE	X
O. DUAL BODY PROPS	X
P. 1/2 x 10 GA. x 78" CAB SHIELD 100% WELDED	X
Q. BACK UP ALARM	X
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM	X
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUS	5"-6"
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS	16.92 with boards
U. BOX VIBRATOR	X
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER	X
STANDARD DUMP BOX OPTION COST:	\$ 77,615.00 includes hydraulics
STAINLESS STEEL DUMP BOX OPTION COST:	\$ 79,865.00 included hydraulics
HOIST FOR DUMP BODY	
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR	X
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING	X
C. THE HOIST SHALL HAVE A 1/4" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE	Nitrided steel glands
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI	1026 steel, 50,000 PSI

MINIMUM SPECIFICATIONS	FURNISHED
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	X
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	ARCOR surface
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	X
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNESS OF 80 DEGREES ROCKWELL "B"	X
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	X
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	X
LIGHTS	
A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT: 1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSSES 3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS' 4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS 5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK	-Strobes in rear posts
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	X
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY	
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	Henke UBS12
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	X
C. HARDENED 5" CENTER PIN WITH THREE 3/4" MOUNTING BOLTS	X
D. 2 1/2" DIAMETER HINGE SHAFT	X
E. (2) HEAVY DUTY SHOCK ABSORBERS	X
F. (2) 3 1/2" ACTUATING CYLINDERS	3"
G. 400 PSI CUSHION VALVE	X
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	X
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	X
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	X
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	X
L. ALL HINGES ARE GUSSETED WITH 1/2" MATERIAL	X
M. ALL HINGES ARE GUSSETED WITH 1/2" MATERIAL	X
N. ALL HINGES ARE GUSSETED WITH 1/2" MATERIAL	X
O. SOLID 3/4" THICK MOUNTING BRACKETS	X

MINIMUM SPECIFICATIONS	FURNISHED
P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	X
REAR MOUNTED FULL TRIP WING	
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	X
B. PARA -GLIDE WING POST	Henke postless design
C. CUSTOM HEAVY DUTY WING STOP	X
D. 3/16" TAPERED MOLDBOARD	X
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	X
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	X
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) 1/2" ORB	X
H. MANUAL LOCK OUT WITH SAFETY CHAIN	X
I. LIFT CYLINDER FROM REAR UPPER POSITION	X
HYDRAULICS	
A. PUMP	
1. CAST IRON CONSTRUCTION – FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING	38 GPM @ 2000 RPM
2. 35 GPM AT 2000 RPM	
3. DIRCT DRIVE OFF CRANKSHAFT	
4. IN-LINE HYDRAULIC FILTER	
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB	
1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB	No power beyond
C. CONTROL SEQUENCE FROM DRIVER	
1. DUMP BOX	
2. UNDERBODY SCRAPER	
3. FRONT PLOW	X
4. REAR MOUNT WING	
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	X
E. HYDRAULIC VALVE BANK – GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	X
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	X
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	X
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	X
ONE-WAY FRONT PLOW FUNCTION OPTION COST:	N/A
FOUR-WAY FRONT PLOW FUNCTION OPTION COST:	See body pricing, included there

MINIMUM SPECIFICATIONS	FURNISHED
OPTIONAL FRONT-MOUNTED, SLOTTED TRIP PLOW	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	X
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	X
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	X
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	3/16" thick
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	X
F. CASTOR TYPE ADJUSTABLE SKIDS	X
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	X
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	X
I. QUICK HITCH	X
OPTIONAL FRONT-MOUNTED PLOW COST:	\$ 11,525.00
TARP	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	Aero 575 tarp system
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	X
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	X
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	X
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	X

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	
F.O.B. BODY LOCATIONS OR EQUIVALENT	
A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC.	

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba

Office: (906) 786 - 1842

BIDDER'S PROPOSAL

DATE: 8-23-19

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

\$ _____

MAKE: _____

MODEL: _____

DELIVERY DATE: 3-27-19 if chassis arrived 12-19

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ _____
(Must be included to qualify)

Submitted By:

FIRM: _____

ADDRESS: _____

BY: _____

TITLE: _____

PRINTED NAME: _____

Olsen Trailers Body
body info

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART A: CAB AND CHASSIS

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C. FUEL FILTER WITH 120 VOLT ELECTRIC PRE-HEATER	
D. HEAVY DUTY OIL COOLER	
E. HEAVY DUTY COOLING SYSTEM	
F. HORIZONTAL EXHAUST SYSTEM WITH VERTICAL TAILPIPE CONFIGURATION OF DIESEL PARTICULATE FILTER SO AS NOT TO INTERFERE WITH THE MOUNTING OF THE DUMP BOX, COMBINATION OIL-FUEL TANK AND UNDERBODY SCRAPER	
G. COOLANT FILTER REPLACEABLE "SPIN-ON"	
H. AIR FILTER DRY TYPE WITH IN CAB FILTER REMINDER	
ELECTRICAL	
A. HEAVY DUTY ALTERNATOR RATED AT 160 AMPERE MINIMUM	
B. BATTERIES, MOUNTED FOR CLEAN FRAME RAILS, IN CAB PREFERRED: <ol style="list-style-type: none"> 1. HEAVY DUTY 12 VOLT BATTERIES 2. EASY ACCESS JUMP START PROVISION 3. SPARE CIRCUITS/SWITCHES/WIRING FOR ROOF MOUNTED STROBES, REAR BOX STROBES, FORWARD CAB GUARD STROBES AND FOR ADDITIONAL CAB MOUNTED PLOW LIGHTS AND LED LIGHT TO SHINE ON REAR PLOW WING WHEN IN USE, IN CAB CONNECTIONS 4. TRUCK ELECTRICAL SYSTEMS SHALL BE SUPPRESSED AND SHALL NOT AFFECT AGENCY RADIO EQUIPMENT 5. BATTERY DISCONNECT SWITCH 	
TRANSMISSION	
A. ALLISION WORLD HD TRANSMISSION 3500 RDS 5-SPEED WIDE RATIO OR EQUIVALENT	
B. PUSH BUTTON ALLISION SHIFT CONTROL – DASH MOUNTED LOCATION OR EQUIVALENT	
C. EXTERNAL FLUID FILTER (SPIN ON)	
D. HEAVY DUTY TRANSMISSION COOLER	
E. TRANSMISSION CONTROL MODULE MOUNTED INSIDE THE CAB SO AS NOT TO BE EXPOSED TO THE OUTSIDE ELEMENTS	
FRAME	
A. HEAVY DUTY STRAIGHT RAIL FULL LENGTH CHANNEL NO LESS THAN 120,000 PSI YIELD STRENGTH	

MINIMUM SPECIFICATIONS	FURNISHED
B. CONVENTIONAL REINFORCEMENT	
C. HEAVY DUTY FRAME TO EXTEND IN FRONT OF GRILL APPROXIMATELY 24" AND NO BOLT ON EXTENSION	
D. FRAME MOUNTED HITCH WITH PROPER WIRING FOR TRAILER PLUG IN	
E. TWO FRONT MOUNT TOW HOOKS AND TWO REAR MOUNT TOW HOOKS	
F. ALL COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
FRONT AXLE/TANDEM AXLES/SPRINGS	
A. SET BACK FRONT AXLE: 18,000 LBS RATING WITH DUAL HEAVY DUTY POWER STEERING	
B. GREASABLE DRAG LINK AND TIE ROD ENDS	
C. FULL LOCKING DIFFERENTIALS - BOTH REAR AXLES	
D. HENDRICKSON PRIMAXX AIR RIDE SUSPENSION - 40,000 lb. CAPACITY OR EQUIVALENT	
E. WHEELBASE: 185" - 200"	
F. APPROXIMATELY 134" - 138" CAB TO AXLE <ul style="list-style-type: none"> 1. MUST BE ABLE TO ACCOMMODATE: BEHIND CAB HI-MOUNTED FUEL & HYDRAULIC TANKS, VERTICAL EXHAUST SYSTEM, BEHIND CAB VALVE HYDRAULIC VALVE BAND, 12' UNDERBODY SCRAPER WITH 8" CUTTING EDGE, REAR MOUNTED 9' SNOW WING AND 14' OR 14.5' DUMP BOX. 	
BRAKES	
A. FRONT & REAR HEAVY DUTY AIR BRAKES S-CAM TYPE/ABS	
B. AIR COMPRESSOR SHALL BE A MINIMUM OF 18.7 C.F.M. BENDIX - MODEL # TU-FLO-550 OR EQUIVALENT	
C. AIR TANKS WITH AUTO DRAINS AND HEATERS	
D. AUTOMATIC SLACK ADJUSTER FRONT & REAR	
E. AIR DRYER BENDIX AD-9 EXTENDED PURGE WITH HEATER OR EQUIVALENT	
F. EMERGENCY BRAKE AIR OPERATED WITH CAB CONTROL EMERGENCY AIR SUPPLY VALVE AND REMOTE AIR RESERVOIR	
TIRES/WHEELS	
A. FRONT <ul style="list-style-type: none"> 1. 315/80 R22.5 18 PLY HUB PILOTED DICS (2) 2. FRONT SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
B. REAR <ul style="list-style-type: none"> 1. 11R 22.5 14 PLY HUB PILOTED DICS (8) 2. REAR SPARE TO MATCH (1) MOUNTED TIRE AND RIM ONLY 	
FUEL TANK AND HYDRAULIC TANK	
B. MINIMUM 50 GALLON DIESEL , FRAME MOUNTED LEFT-HAND RAIL, UNDER DORR WITH 22" MINIMUM CLEARANCE INCLUDING MOUNTING SADDLE & SPRING LOADED STRAPS, FUEL SENDING UNIT, OIL SIGHT TUBE, HYDRAULIC FILTER IN TANK WITH RETURN TO TANK BOTTOM, WITH PROPER PAINTED LETTERING AS TO THE CONTENTS. REQUIRED STEP ON BOTH ENDS OF FRAME WORK FOR EASE OF FILLING TANKS AND A FUEL SHUT-OFF VALVE IS REQUIRED FOR EASE OF MAINTENANCE	

MINIMUM SPECIFICATIONS

FURNISHED

MINIMUM SPECIFICATIONS	FURNISHED
CAB EXTERIOR	
A. CONVENTIONAL GALVANIZED STEEL CAB	
B. ONE PIECE MOLDED RUBBER FLOOR MAT	
C. TILT FORWARD HOOD AND FENDERS WITH BUTTERFLY OPENINGS FOR EASY ACCESS TO THE ENGINE	
D. PASSENGER LOWER DOOR WINDOW	
E. STAINLESS STEEL MIRRORS WITH HEAVY DUTY HARDWARE WITH AUXILARY CONVEX MIRRORS - HEATED	
F. STAINLESS STEEL DUAL OUTSIDE GRAB HANDLES	
G. DOME LIGHT ACTIVATED BY DOOR SWITCHES	
H. DUAL, HEAVY DUTY ELECTRIC TWO-SPEED WINDSHIELD WIPER WITH INTERMITTENT SPEED CONTROL AND ELECTRIC WASHER	
I. CAB CLEARANCE L.E.D. LIGHTS LOCATED ON OUTER FRONT EDGE OF CAB TOP	
J. 4-WAY HAZARD SWITCH AS REQUIRED TO OPERATE ALL TURN SIGNAL LIGHTS SIMULTANEOUSLY IN A FLASHING MODE WITH A HEAVY DUTY FLASHER	
K. REFLECTORS AS REQUIRED BY MICHIGAN STATE LAW	
L. STANDARD HALOGEN or LED SEALED BEAM HEADLIGHTS	
CAB INTERIOR	
A. HEAVY DUTY HEATER AND DEFROSTER	
B. DRIVER AND PASSENGER SUN VISORS	
C. TILT/TELESCOPIC STEERING WHEEL	
D. AIR SUSPENSION, HIGH BACK DRIVER'S SEAT WITH DUAL ARM RESTS AND NON SUSPENSION, SINGLE PASSENGER SEAT WITH DUAL ARM RESTS	
E. GRAB HANDLES FOR CAB EASY ENTRANCE AND EXIT	
F. AM/FM RADIO	
G. INSTRUMENT AND WARNING SYSTEMS <ul style="list-style-type: none"> I. SPEEDOMETER, ODOMETER, TACHOMETER, HOUR METER, ENGINE COOLANT TEMPERATURE GAUGE WITH HIGH RECOMMENDED TEMPERATURE WARNING LIGHT & BUZZER, AIR PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT & BUZZER, ENGINE OIL PRESSURE GAUGE WITH LOW - PRESSURE WARNING LIGHT AND BUZZER, TRANSMISSION TEMPERATURE GAUGE, MANIFOLD PRESSURE GAUGE, VOLTMETER AND ENGINE AIR FILTER RESTRICTION GAUGE-IN-DASH MOUNTED FILTER MINDER 	
MISCELLANEOUS	
A. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. ENGINE: 60 MONTHS, 100,000 MILES	

BID SPECIFICATIONS FORM

One (1) NEW tandem axle plow truck with dump box, underbody scraper, front plow and rear mounted wing.

PART B BODY PACKAGE

MINIMUM SPECIFICATIONS	FURNISHED
DUMP BOX	
A. LENGTH: 14 FEET	yes
B. 84" INSIDE DIAMETER WIDTH AND 96" OUTSIDE DIAMETER WIDTH - 62" FRONT, 48" SIDES AND 56" TAILGATE	yes
C. 3/16" AR450 FRONT AND SIDE AND TAILGATE	yes
D. 1/4" AR450 CROSSMEMBERLESS (WESTERN STYLE) FLOOR	yes
E. 8" I - BEAM CROSSMEMBERLESS UNDERSTRUCTURE	yes
F. TAILGATE TO HAVE A SINGLE CENTER CROSS SUPPORT; PERIMETER TO BE 3.50" DEEP	yes
G. EXTEND BOX BOTTOM 10" BENEATH TAILGATE	yes
H. ONE (1) 1/2" x 7" OFFSET TAILGATE HINGE PLATE	yes
I. AIR TAILGATE RELEASE	yes
J. SLOPING FULLY BOXED TOP RAILS WITH 3" WIDE BOARD POCKETS	yes
K. GRIPSTRUT WALKRAILS BOTH SIDE	yes
L. STEPS INSIDE FRONT DRIVERS CORNER OF DUMP BOX	yes
M. RIDGED STEPS MOUNTED TO FRONT AND REAR ON BOTH SIDES	yes
N. GRAB HANDLE ON FRONT DRIVERS SIDE	yes
O. DUAL BODY PROPS	yes
P. 1/2 x 10 GA. x 78" CAB SHIELD 100% WELDED	yes
Q. BACK UP ALARM	yes
R. RUBBER REAR FLAPS FRONT AND REAR OF TANDEM	yes
S. 7" FRONT TO FLOOR AND SIDE TO FLOOR RADIUS	yes
T. THE BODY CAPACITY SHALL BE 10.4 CUBIC YARDS, WITHOUT SIDE BOARDS AND 14 CUBIC YARDS WITH SIDE BOARDS	yes
U. BOX VIBRATOR	yes
U. HEAVY DUTY WEATHER RESISTANT, WEATHER SEALED TOOL BOX, ADEQUATE TO HOLD TOW STRAPS, CHAINS, ETC. LEFT FRAME MOUNTED AND NOT TO INTERFERE WITH THE UNDERBODY SCRAPER	yes
<i>Installed</i> STANDARD DUMP BOX OPTION COST:	\$ 24,421.00
<i>Installed</i> STAINLESS STEEL DUMP BOX OPTION COST:	27,618.00
HOIST FOR DUMP BODY	
A. THE HOIST SHALL BE OF A TELESCOPIC DESIGN AND HAVE A TRUNION MOUNTING AND OSCILLATING COLLAR	yes
B. BE DESIGNED TO OPERATE UP TO 2,500 PSI AND BE SELF-BLEEDING	yes
C. THE HOIST SHALL HAVE A 1/4" WALL CONSTRUCTION WITH BRONZE GLANDS AND PISTONS TO ASSURE A SMOOTH AND DURABLE BEARING SURFACE	yes
D. GLANDS SHALL EACH BE A CONTINUOUS CAST BEARING, SAE-660 BRONZE WITH A TENSILE STRENGTH OF 44,000 PSI	yes

COMPLY

COMPLY

MINIMUM SPECIFICATIONS	FURNISHED	
E. EACH CYLINDER SHALL BE INTERNALLY SEALED AND INSIDE SEALS SHALL BE OF A U-CUP DESIGN MADE OF NITRAL PACKING	yes	
F. THE CYLINDER SHALL HAVE A MELONIZED/Q.P.Q RUNNING SURFACE AND THE SURFACES SHALL HAVE A PREDOMINANCE OF SINGLE-PHASE EPSILON NITRIDE THAT WILL COVER THE ENTIRE CYLINDER SURFACE	yes	
G. THE CYLINDER ROD SHALL BE C1045/1050 STEEL WITH A TENSILE STRENGTH OF 80,000 TO 100,000 POUNDS.	yes	
H. THE CYLINDER TUBING SHALL BE D.O.M. TUBING, DRAWN OVER A MANDREL, AND SHALL HAVE TENSILE STRENGTH OF 70,000 POUNDS. THE TUBE SHALL HAVE A SURFACE HARNESS OF 80 DEGREES ROCKWELL "B"	yes	COMPLY
I. THE CYLINDER SHALL BE DOUBLE ACTING IN ALL STAGES, DISMANTLE EASILY AND OVERLAP BETWEEN STAGES FOR GREATER STABILITY	yes	
J. EACH ROD OR PIN EYE SHALL HAVE A GREASE ZERK	yes	
LIGHTS		
A. PROVIDED WITH THE BODY SHALL BE THE FOLLOWING L.E.D. LIGHT KIT:	yes	
1. TWO (2) OVAL RED STOP, TURN AND TAIL LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSES	yes	
2. TWO (2) OVAL CLEAR BACK-UP LIGHTS WITH PROTECTIVE RUBBER GROMMETS AND WIRE HARNESSES	yes	
3. FOUR (4) 2" ROUND RED MARKERS WITH RUBBER GROMMETS AND WIRE HARNESS'	yes	COMPLY
4. ONE (1) LIGHT BAR WITH THREE 2" ROUND RED MARKERS	yes	
5. TWO (2) GREEN AND AMBER STROBES MOUNTED ON THE LIGHT BAR FACING THE REAR OF THE TRUCK	yes	
B. SPECIAL LIGHTS, CIRCUITS AND SWITCHES FOR BLADE/REAR WING POST TO BE L. E. D. AND RUBBER MOUNTED	yes	
UNDERBODY SCRAPER AND CIRCLE ASSEMBLY		
A. 12' EXTRA HEAVY DUTY SCRAPER, MONROE 3500 OR EQUIVALENT	yes	
B. 1" THICK X 20" HIGH MOLDBOARD (MUST HAVE OFFSET FOR SCRAPER CUTTING EDGE TO ACCEPT STANDARD HIGHWAY PUNCH BLADES")	yes	
C. HARDENED 5" CENTER PIN WITH THREE 3/4" MOUNTING BOLTS	yes	
D. 2 1/2" DIAMETER HINGE SHAFT	yes	
E. (2) HEAVY DUTY SHOCK ABSORBERS	yes	
F. (2) 3 1/2" ACTUATING CYLINDERS	yes	
G. 400 PSI CUSHION VALVE	yes	
H. 1" SOLID NOTCHLESS REVERSING CIRCLE (CAN ROTATE A FULL 45 DEG.) FOR LEFT OR RIGHT SIDE DISCHARGE	yes	COMPLY
I. 4" REVERSING CYLINDERS WITH 2" CYLINDER RODS	yes	
J. CONTOURED HOLD-DOWN BLOCKS WITH 3/8" UHM WEARPLATES	yes	
K. 96" SOLID SHAFT HINGE WITH 3 ANCHOR PLATES	yes	
L. ALL HINGES ARE GUSSETED WITH 1/2" MATERIAL	yes	
M. ALL HINGES ARE GUSSETED WITH 1/2" MATERIAL	yes	
N. ALL HINGES ARE GUSSETED WITH 1/2" MATERIAL	yes	
O. SOLID 3/4" THICK MOUNTING BRACKETS	yes	

MINIMUM SPECIFICATIONS	FURNISHED	
P. SCRAPER MOLDBOARD MOUNTED STEP ON DRIVERS SIDE FROM GRIPSTRUT	Yes	
REAR MOUNTED FULL TRIP WING		
A. 9' HEAVY DUTY REAR MOUNT DOUBLE FUNCTION PATROL WING TO WORK IN CONJUNCTION WITH THE UNDERBODY SCRAPER DISCHARGE - RIGHT SIDE REAR MOUNTED	Yes	
B. PARA-GLIDE WING POST		postless Design
C. CUSTOM HEAVY DUTY WING STOP	Yes	
D. 3/16" TAPERED MOLDBOARD	Yes	
E. DUAL FULLTRIP PUSHARM KIT; DOUBLE FUNCTION	Yes	COMPLY
F. WING SIDE PLATES AND SINGLE WING MARKER ON HEEL END OF WING	Yes	
G. HYDRAULIC LOCK KIT; VALVE, WING LOCK (2) 3/4" ORB	Yes	
H. MANUAL LOCK OUT WITH SAFETY CHAIN	Yes	
I. LIFT CYLINDER FROM REAR UPPER POSITION	Yes	
HYDRAULICS		
A. PUMP		
1. CAST IRON CONSTRUCTION - FRONT MOUNTED TO OPERATE UNDERBODY SCRAPER, DOUBLE ACTING TELESCOPIC DUMP BODY HOIST, FRONT PLOW AND REAR MOUNTED WING	Yes	COMPLY
2. 35 GPM AT 2000 RPM		
3. DIRCT DRIVE OFF CRANKSHAFT		
4. IN-LINE HYDRAULIC FILTER		
B. CONTROL MANIFOLD FOR DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNTED WING TO BE PEDESTAL MOUNTED IN CAB	Yes	COMPLY
1. MANIFOLD TO HAVE "POWER BEYOND" CAPABILITY. NO EXPOSED HOSES INSIDE CAB		
C. CONTROL SEQUENCE FROM DRIVER	Yes	COMPLY
1. DUMP BOX		
2. UNDERBODY SCRAPER		
3. FRONT PLOW		
4. REAR MOUNT WING		
D. ALL LEVERS TO BE BACK TO RAISE & DOWN TO LOWER	Yes	
E. HYDRAULIC VALVE BANK - GRESON LS V20 FOR PLOWS & V40 FOR HOIST OR EQUIVALENT WITH EACH SECTION MUST HAVE BUILT-IN FLOW AND PRESSURE AND COMPENSATION TO BE MOUNTED BEHIND CAB	Yes	
F. ALL HYDRAULIC LINES, PIPES, HOSES AND FITTINGS BE OF SUFFICIENT CAPACITY TO ACCOMMODATE THE VOLUME OF OIL WITHOUT UNDUE HEATING OR TURBULENCE IN THE SYSTEM	Yes	COMPLY
G. ALL HOSES ANCHORED AND CLEAR OF ANY DAMAGING OBSTRUCTIONS	Yes	
H. FRONT BUMPER: 9" X 3/8" CHANNEL, 52" STRAIGHT CENTER SECTION AND BANK ANGLED ENDS TO PROTECT FENDERS. CHANNEL ENDS TO BE ENCLOSED WITH STEP ACCESS FOR OIL CHECK. ALL SHARP CORNERS GROUND SMOOTH	Yes	
ONE-WAY FRONT PLOW FUNCTION OPTION COST:		\$14,192.00
FOUR-WAY FRONT PLOW FUNCTION OPTION COST:		\$14,650.00

MINIMUM SPECIFICATIONS	FURNISHED
OPTIONAL FRONT – MOUNTED, SLOTTED TRIP PLOW	
A. PLOW TO TRUCK MOUNTING TO BE 34" HUSTING	YES
B. LIFT CYLINDER TO BE 3" DOUBLE ACTING	YES
C. PLOW TO BE APPROXIMATELY 12' IN WIDTH	YES
D. CONSTRUCTED OF 10 GAUGE STEEL, TOP MOLDBOARD STIFFENER, AND ADEQUATE REINFORCEMENT	YES
E. REPLACEABLE CUTTING EDGE, STANDARD HIGHWAY PUNCH	YES
F. CASTOR TYPE ADJUSTABLE SKIDS	YES
G. FULL MOLDBOARD TRIP W/ ADJUSTABLE PROTECTION	YES
H. RUBBER SNOW DEFLECTOR ACROSS TOP LENGTH OF PLOW	YES
I. QUICK HITCH	YES
OPTIONAL FRONT-MOUNTED PLOW COST: \$14,726.00	
TARP	
A. TARP SYSTEM ELECTRIC, TO INCLUDE HEAVY DUTY FRAME WORK, DIRECT MOUNT GEAR BOX, WEATHERPROOF, FOR EASY ROLL-UP, FRICTION BRAKE POSITIVE LOCKING SYSTEM, MANUAL OVERRIDE WITH DISENGAGING HANDLE, CHAIN GUARD, WIND DEFLECTOR, EXTRA HEAVY DUTY MESH TARP AND PIVOT ARM REINFORCEMENT STRIPS. TO BE PAINTED AND INSTALLED ON CAB GUARD.	YES
MISCELLANEOUS	
A. COMPLETE UNIT TO BE PAINTED CITY YELLOW OR THE CITY OF ESCANABA WILL CONSIDER A DIFFERENT COLOR COMBINATION IF LESS COST	YES
B. MANUFACTURER SHALL PROVIDE CAUTION LABELS, DECALS AND ANY WARNINGS OR SAFETY REMINDERS DEEMED NECESSARY	YES
C. BIDDER TO SUPPLY OPERATING, SHOP, MAINTENANCE MANUALS, INCLUDING ELECTRICAL AND HYDRAULIC, FOR TRUCK AND RELATED EQUIPMENT	YES
D. CHASSIS BIDDER RESPONSIBLE FOR COMPLETE UNIT – TO BID AS ONE UNIT CHASSIS AND BODY	
E. ALL ELIGIBLE FACTORY REBATES, GOVERNMENT, MUNICIPAL DISCOUNTS INCLUDED IN BID	YES
F. IT WILL BE THE RESPONSIBILITY OF CHASSIS DEALER TO PROVIDE DELIVERY FOB CITY OF ESCANABA AT THE TIME OF COMPLETION AT THE BODY DEALER.	
G. ANY PARTS REMOVED FROM CHASSIS ARE THE PROPERTY OF THE CITY OF ESCANABA AND ARE TO BE DELIVERED TO THE CITY. IT SHALL BE THE RESPONSIBILITY OF THE CHASSIS BIDDER TO COORDINATE ALL ASPECTS OF THE BODY PACKAGE (PART "B") OF THIS SPECIFICATION. IT IS THE INTENT OF THE CITY OF ESCANABA TO MAKE AN AWARD WITH THE UNDERSTANDING THAT THE CHASSIS AND BODY BIDDERS WILL WORK TOGETHER TO ASSURE ALL ITEMS OF THIS BID SPECIFICATION WILL BE MET.	YES
H. THE PACKAGE SHALL BE FURNISHED COMPLETE WITH ALL SAFETY COMPONENTS THAT ARE REQUIRED BY CURRENT FMVSS FOR THE SIZE OF TRUCK PROPOSED	YES

COMPLY

EXCEEDS

COMPL

MINIMUM SPECIFICATIONS	FURNISHED
I. ALL CAB AND CHASSIS COMPONENTS SHALL HAVE A MINIMUM OF 24" GROUND CLEARANCE AND SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF AN UNDERBODY SCRAPER	
WARRANTY	
A. MANUFACTURER'S WARRANTY FOR ALL DEFECTIVE PARTS AND WORKMANSHIP FOR COMPLETE CHASSIS AND BODY. PICKUP AND DELIVERY OF PARTS AND/OR TRUCK SHALL BE INCLUDED WHILE UNDER WARRANTY. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE CITY OF ESCANABA	Yes
F.O.B. BODY LOCATIONS OR EQUIVALENT	
<ul style="list-style-type: none"> A. HYDE EQUIPMENT, PETOSKEY, MICH. B. MONROE TRUCK EQUIPMENT, GREEN BAY, WISC. C. OLSON TRAILER & BODY, GREEN BAY, WISC. D. TRUCK & TRAILER SPECIALTIES, BOYNE FALLS, MICH. E. CASPER TRUCK EQUIPMENT, APPLETON, WISC. 	

COMPLY

Please complete and return the minimum specifications form. Any questions regarding these specifications should be directed to:

Wendy Taavola
 Assistant Superintendent
 Department of Public Works
 City of Escanaba

Office: (906) 786 - 1842

BIDDER'S PROPOSAL

DATE: August 23, 2019

CITY OF ESCANABA
ESCANABA, MI 49829

We, the undersigned, agree to furnish the City of Escanaba, Michigan:

ONE (1) NEW 2019/2020 TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, ONE WAY FRONT PLOW AND REAR MOUNT WING;

in accordance with the attached minimum specifications, which are part of this proposal, at the following price

\$ 78,734.00

MAKE: _____

MODEL: _____

DELIVERY DATE: _____

Certified Check, Cashier's Check,
or Bidder's Bond enclosed in the amount of (10%): \$ _____
(Must be included to qualify)

Submitted By:

FIRM: OLSON TRAILER & BODY

ADDRESS: 2485 HUTSON ROAD GREEN BAY WI

BY: DENNIS GOIMAN

TITLE: Territory Manager

PRINTED NAME: DENNIS GOIMAN

NOTICE TO BIDDERS

Sealed bids will be received by the City of Escanaba at the office of the City Clerk, on or before 2 p.m. EST, on: TUESDAY, AUGUST 27, 2019.

The bids will be publicly opened and read in Room 101 in the City Hall located at 410 Ludington Street, Escanaba, Michigan at said date and time.

Bidder's proposals, and/or specifications may be obtained from the office of the City Clerk, located at 410 Ludington Street, Escanaba, Michigan, 49829. No bids will be considered unless the proposal and /or specifications (furnished by the City of Escanaba, Michigan), are properly completed and enclosed in a sealed envelope, marked:

ONE (1) NEW TANDEM PLOW TRUCK WITH DUMP BOX, UNDERBODY SCRAPER, FRONT PLOW AND REAR MOUNT WING

In addition, the City of Escanaba, Michigan will not consider any proposal which has not been received prior to the published time, date and year of bid opening. (FAX transmittals will not be accepted.)

A Certified Check, Cashier's Check, or Bidder's Bond, drawn payable, without condition, to the City of Escanaba, Michigan, in an amount not less than 10% of the bid, will be submitted with each proposal as a guarantee that if the bid is accepted, the bidder will furnish materials or services as stated in his or her proposal. On failure of the successful bidder to fulfill the conditions of his or her proposal, he or she shall forfeit said deposit to the City of Escanaba, Michigan as liquidated damages. The acceptance of the proposal will be contingent upon the bidder's acceptance of this provision.

The City of Escanaba, Michigan reserves the right to reject any or all bids, or any part thereof at its discretion, and to waive any irregularities in the bidding. The City of Escanaba, Michigan may also split bids at its discretion. The City further reserves the right to negotiate directly with any and all bidders concerning any matter related to any bid.

All City of Escanaba, Michigan bids are prepared to afford all vendors the equal opportunity for fair and equitable competition. The City of Escanaba, Michigan assumes no liability or responsibility for any errors or oversights in the preparation and/or publication of bids.

Wendy Taavola
Assistant Superintendent
Department of Public Works
City of Escanaba
Office: (906) 786 - 1842



Trailer & Body LLC

DATE AUGUST 22, 2019

QUOTE#DG-08222019-01

2485 HUTSON ROAD, GREEN BAY, WI 54303
1-800-242-8091 920-499-0881 Fax 1-920-499-3813 Dennis Gorman Territory Manager

TO: CITY OF ESCANABA

TANDEM Axle Patrol Truck Equipment

Delivery date determined by award date - 90 days to get equipment plus 65 days to install
Equipment for 2019 TANDEM axle patrol truck
Furnish and Install

DUMP BODY:

TBEI DURACCLASS dump body 14 feet long
With 84' inside diameter width 96' outside dia. 62' front, 48' sides and 56' tailgate
With 3/16" ar 450 front, sides and tailgate
1/4 'ar 450 crossmemberless floor, western style
8" I- beams understructure cross memberless
Tailgate to have a single center cross support 3.50; deep
Extend box bottom 10' beneath tailgate
One - 1/2' x 7' offset tailgate hinge plate
Air release tailgate
Sloping fully boxed top rails with 3' wide board pockets
Gripstrut walk rails on both sides
Steps installed front driver side of corner of box
Steps mounted to front and rear on both sides
Grab handles on front driver side
Dual body props
1/2' 10 gauge x 78' cab shield
Installing back up alarm
Mud flaps front and rear of tandems
6' front to floor and side to floor radius
The body will be capacity will be 10.5 cubic yards without side board, and 14 cubic yards with side board
Cougar DC 3200 vibrator installing momentary switch and controlled in cab
RC toolbox 36 x 18 x 18 weather resistant, frame mounted, not to interfere with underbody

HOIST ON DUMP BODY;

Mailhot M120-5.5-3 S/A
Will be able to operate up to 2,500 psi and self-bleeding
The Mailhot hoist provided WILL MEET A, B, C, D, E, F, G, H, I, J

LIGHTS;

Using all LED lights
Two oval red stop, turn and tail lights with protective rubber grommets and wire harnesses
Two oval clear back up wire harnesses lights with protective rubber grommets and
Four 2" round red marker lights protective rubber grommets and wire harnesses
One light bar with three 2' round red markers
Two green and amber strobes mounted on the light bar facing the rear of truck
Lights for blade/and rear wing post will be LED on its own circuits and switches and rubber mounted

UNDERBODY HENKE:

UBS12 – 12 Foot Underbody Scraper
Solid 2 ½" hinge shaft and four (4) hinge-anchor points
Hangerboard circle clamps 102in², with poly wear pads
One piece circle 1" thick solid steel with 5" center pin
Two (2) heavy duty mounting plates
Moldboard 1" x 20" carbon steel
Two (2) 4" bore D.A. reversing cylinders with 2" nitrited rods
Two (2) 3" bore D.A. actuating cylinders with 2" nitrited rods
Crossover relief valve for reversing cylinders
Down pressure relief valve for actuating cylinders
Cutting edge ½' X 6' high carbon steel cutting edge
Underbody scraper painted satin black
400 PSI cushion valve
Gripstrut welded on driver side of moldboard

HENKE WING:

PPW-RL9 – 9DPB Postless Patrol Wing with Dual Push-beam Rear Lift
Mid mount design - in front of rear axle - with 12.65" of float
All hydraulic operation - no cables
23" by 12" heavy duty parallel arm structure with 3" x 10" x 2" double acting lift cylinder
Full-tripping moldboard with (2) two position pivot bushing and (6) six position push-beam adjustment
Leading end height 29" and discharge end height 36"
Smooth rolled 3/16" hi-tensile 50,000psi steel plate
Anti-chatter feature
3" x 15" x 2" double acting wing stow cylinder with decal feature and built in lock valve mounted at rear between upper and lower push-beams
Cutting edge ½' x 8' carbon steel
Standard duty dual, non-hydraulic, spring-cushioned, adjustable push-beams
69.25" standard push-beam max length
Push-beam inner rod material is 2.188 round bar and outer tube material is 2.5" SCH 80 Pipe
Wing painted: to your color specification

HYDRAULICS:

Eaton 421 series front mounted pump has a 4.88 cubic inch displacement
The 421 pump will produce approximately 38 GPM at 2000 RPMs
Front mounted to operate underbody, dump body, front plow, and rear wing
Direct drive off crankshaft
In-line hydraulic filter
Force America Add-A-Stack 4020 valve assembly for needed hydraulic functions
Controls manifold for dump body, underbody scraper, front plow, and rear mounted wing to be installed on a tower in cab
With no exposed hoses in cab
Controls sequence from driver 1 dump body/2 underbody scraper/3 front plow/4 rear mount wing
Levers to be back to raise and down to lower
The valve section to be mounted behind cab, all hoses will be anchored and clear of any damaging obstructions
All hydraulic lines, hoses and fitting will be sufficient capacity to accommodate the volume of oil without undue heating and turbulence in the system
With all needed cushion valves, reliefs and locks.
Includes all needed hoses, fittings, couplers, fluids, and reliefs to 100% meet specifications

OPTIONAL FRONT MOUNTED, SLOTTED TRIP PLOW;

Henke OWFA 30-60- 12IS, SLT -- 12 Foot One-Way Fixed Angle Snowplow
Leading end height 30" and discharge end height 60"
3/16" thick, rolled plate moldboard with integral shield
1/4" landslide plate on leading end of moldboard
One-Way fixed angle push-frame: 4" x 7" x 3/8"
(SLT) slotted trip

Agenda Item: VB-8
Date: 9-5-19

City Council Agenda Item Request

Date: 8/29/19

Name: Rob LaMarche

Department: Public Safety

Item: Traffic Control Orders

Meeting date requested: September 5, 2019

Explanation for request:

Administration is seeking Council approval of TCO's No. 996, 997, 998, 999, 1000, 1001, 1002 & 1003. Traffic Control Orders expire 90 days from the filing date unless approved by Council. On August 20, 2019 the Traffic Safety Advisory Committee met and has recommended City Council approval of TCO No. 996-1003.

The Traffic Control Orders call for the following:

No. 996 – Move the 25 mph zone from the 1100 block of Lake Shore Drive to the 1400 block of Lake Shore Drive to reduce the speed limit proceeding through Veterans Park.

No. 997 – Placement of additional No Parking during school hours signs on the East/West side of North 19th Street near North 13th Avenue.

No. 998 – Placement of additional No Parking during school hours signs on the North/South side of 13th Avenue North.

No. 999 – Placement of additional No Parking Signs during school hours on the East and West side of N 16th Street near North 1st Avenue.

No. 1000 – Placement of additional No Parking Signs during school hours on the North and South side of 1st Avenue North near 16th Street.

No. 1001 – Placement of additional No Parking Signs during school hours on the East and West side of South 20th Street near 7th Avenue South and 6th Avenue South.

No. 1002 – Placement of additional No Parking Signs during school hours on the North and South side of 7th Avenue South east of 20th Street.

No. 1003 – Placement of additional No Parking during school hours signs on the south side of 6th Avenue South just east and west of 20th Street.

City of Escanaba, Michigan

Distribution: 996

Traffic Control Order

- City Manager
- City Engineer
- City Clerk
- Public Works
- Public Safety

Traffic Control Order Number: 996

Date of Filing: August 21, 2019

In accordance with Chapter 27 of the Escanaba Code of Ordinances as amended, we have made an investigation of the traffic Conditions on: **Lake Shore Drive**

at or near the intersection of: **11th Ave South to 13th Ave south**

And as a result of said investigation, do hereby direct that:

Move the 25 mph zone from the 1100 block of Lake Shore Drive to the 1400 block of Lake Shore Drive to reduce the speed limit proceeding through Veterans Park.

Further that the following controls be placed at the following locations: One 30 mph sign for southbound traffic just south of 13th Ave. (west side) One 25 mph sign for northbound traffic just south of 13th Ave. (east side)

Sign Direction (Facing): The 30 mph sign will face north and the 25mph sign will face south.

Sign(s) Location: **(See attached Map)**

The following Traffic Control Oder(s) are hereby rescinded: _____

This order shall expire 90 days from date of filing except that upon its approval by the Escanaba City Council, it shall not so expire.

Date of Filing with City Clerk

Signed: _____

Traffic Engineer

Received for filing (date)

By: _____

City Clerk

Approved by the City of Escanaba Council on _____
Date

The Traffic Control Order is effective upon posting of the required street signs.

City of Escanaba, Michigan

Distribution: 997

Traffic Control Order

- City Manager
- City Engineer
- City Clerk
- Public Works
- Public Safety

Traffic Control Order Number: 997

Date of Filing: August 21, 2019

In accordance with Chapter 27 of the Escanaba Code of Ordinances as amended, we have made an investigation of the traffic conditions on: **The east and west side of North 19th Street near Webster School.**

at or near the intersection of:

13th Ave North.

And as a result of said investigation, do hereby direct that:

Additional No Parking during school hours signs be placed on the East /West side of North 19th Street near North 13th Avenue.

Further that the following controls be placed at the following locations:

No Parking during school hours signs be placed East/West side of North 19th Street near North 13th Avenue

Sign Direction (Facing): Signs on the east side of North 19th St will face south and the signs on the west side will face north.

Sign(s) Location: **East/West side of North 19th Street near North 13th Avenue (See attached map)**

The following Traffic Control Oder(s) are hereby rescinded: _____

This order shall expire 90 days from date of filing except that upon its approval by the Escanaba City Council, it shall not so expire.

Date of Filing with City Clerk

Signed: _____
Traffic Engineer

Received for filing (date)

By: _____
City Clerk

Approved by the City of Escanaba Council on _____
Date

The Traffic Control Order is effective upon posting of the required street signs.

City of Escanaba, Michigan

Distribution: 998

Traffic Control Order

- City Manager
- City Engineer
- City Clerk
- Public Works
- Public Safety

Traffic Control Order Number: 998

Date of Filing: August 21, 2019

In accordance with Chapter 27 of the Escanaba Code of Ordinances as amended, we have made an investigation of the traffic Conditions on: **North & South Side 13th Avenue North near Webster School.**

at or near the intersection of: **North 19th St.**

And as a result of said investigation, do hereby direct that:

Additional No Parking during school hours signs be placed on the North / South Side of 13th Avenue North.

Further that the following controls be placed at the following locations:

No Parking during school hours signs be placed on the North / South Side of 13th Avenue North

Sign Direction (Facing): Signs on the north side of the Ave face east and the signs on the south side face west.

Sign(s) Location: **North and South side of 13th Avenue North (See attached map)**

The following Traffic Control Oder(s) are hereby rescinded: _____

This order shall expire 90 days from date of filing except that upon its approval by the Escanaba City Council, it shall not so expire.

Date of Filing with City Clerk

Signed: 
Traffic Engineer

Received for filing (date)

By: _____
City Clerk

Approved by the City of Escanaba Council on _____
Date

The Traffic Control Order is effective upon posting of the required street signs.

City of Escanaba, Michigan

Traffic Control Order

Distribution: 999

- City Manager
- City Engineer
- City Clerk
- Public Works
- Public Safety

Traffic Control Order Number: 999

Date of Filing: August 21, 2019

In accordance with Chapter 27 of the Escanaba Code of Ordinances as amended, we have made an investigation of the traffic Conditions on: **East and West Side of N 16th Street near the Upper Elementary**

at or near the intersection of: **1st Avenue North**

And as a result of said investigation, do hereby direct that:

Additional No Parking Signs during school hours be placed on the East and West side of N 16th Street near North 1st Avenue.

Further that the following controls be placed at the following locations:

East and West side of N 16th Street.

Sign Direction (Facing): Signs on the west side of North 16th St face north and the signs on the east side face south.

Sign(s) Location: **East and West side of N 16th Street near North 1st Avenue (See attached Map)**

The following Traffic Control Oder(s) are hereby rescinded: _____

This order shall expire 90 days from date of filing except that upon its approval by the Escanaba City Council, it shall not so expire.

Date of Filing with City Clerk

Signed: _____
Traffic Engineer

Received for filing (date)

By: _____
City Clerk

Approved by the City of Escanaba Council on _____
Date

The Traffic Control Order is effective upon posting of the required street signs.

City of Escanaba, Michigan

Distribution: 1000

Traffic Control Order

- City Manager
- City Engineer
- City Clerk
- Public Works
- Public Safety

Traffic Control Order Number: 1000

Date of Filing: August 21, 2019

In accordance with Chapter 27 of the Escanaba Code of Ordinances as amended, we have made an investigation of the traffic Conditions on: **The north and south side of 1st Avenue North near the Upper Elementary School.**

at or near the intersection of: **North 16th St.**

And as a result of said investigation, do hereby direct that:

Additional No Parking Signs during school hours be placed on the north and south side of 1st Avenue North near 16th Street

Further that the following controls be placed at the following locations:

The north and south side of 1st Avenue North.

Sign Direction (Facing): The signs on the north side will face east and the signs on the south side will face west.

Sign(s) Location: **North and south side of North 16th Street near 1st Avenue North (See attached Map)**

The following Traffic Control Order(s) are hereby rescinded: _____

This order shall expire 90 days from date of filing except that upon its approval by the Escanaba City Council, it shall not so expire.

Date of Filing with City Clerk

Signed: _____
Traffic Engineer

Received for filing (date)

By: _____
City Clerk

Approved by the City of Escanaba Council on _____
Date

The Traffic Control Order is effective upon posting of the required street signs.

City of Escanaba, Michigan

Distribution: 1001

Traffic Control Order

- City Manager
- City Engineer
- City Clerk
- Public Works
- Public Safety

Traffic Control Order Number: 1001

Date of Filing: August 21, 2019

In accordance with Chapter 27 of the Escanaba Code of Ordinances as amended, we have made an investigation of the traffic Conditions on: **East and West side of South 20th Street near Lemmer School**

at or near the intersection of: **6th Ave South and 7th Ave South**

And as a result of said investigation, do hereby direct that:

Additional No Parking Signs during school hours be placed on the East and West side of South 20th Street near 7th Avenue South and 6th Avenue South.

Further that the following controls be placed at the following locations:

No Parking Signs during school hours be placed on the East and West side of South 20th Street near 7th Avenue South and 6th Avenue South

Sign Direction (Facing): The signs on the west side will face north and the signs on the east side will face south.

Sign(s) Location: **East and West side of South 20th Street near 7th Avenue South and 6th Avenue South.**
(See attached Map)

The following Traffic Control Oder(s) are hereby rescinded: _____

This order shall expire 90 days from date of filing except that upon its approval by the Escanaba City Council, it shall not so expire.

Date of Filing with City Clerk

Signed: _____

Traffic Engineer

Received for filing (date)

By: _____

City Clerk

Approved by the City of Escanaba Council on _____
Date

The Traffic Control Order is effective upon posting of the required street signs.

City of Escanaba, Michigan

Distribution: 1002

Traffic Control Order

- City Manager
- City Engineer
- City Clerk
- Public Works
- Public Safety

Traffic Control Order Number: 1002

Date of Filing: August 21, 2019

In accordance with Chapter 27 of the Escanaba Code of Ordinances as amended, we have made an investigation of the traffic Conditions on: **North and Southside of 7th Avenue South near Lemmer School**

at or near the intersection of : **South 20th St.**

And as a result of said investigation, do hereby direct that:

Additional No Parking Signs during school hours be placed on the north and south side of 7th Avenue South east of 20th St.

Further that the following controls be placed at the following locations:

No Parking Signs on the north and south side of 7th Avenue South east of 20th Street South

Sign Direction (Facing): The signs on the north side face east and the signs on the south side face west.

Sign(s) Location: **North and south side of 7th Avenue South east of 20th Street South (See attached Map)**

The following Traffic Control Order(s) are hereby rescinded: _____

This order shall expire 90 days from date of filing except that upon its approval by the Escanaba City Council, it shall not so expire.

Date of Filing with City Clerk

Signed: _____
Traffic Engineer

Received for filing (date)

By: _____
City Clerk

Approved by the City of Escanaba Council on _____
Date

The Traffic Control Order is effective upon posting of the required street signs.

City of Escanaba, Michigan

Distribution: 1003

Traffic Control Order

- City Manager
- City Engineer
- City Clerk
- Public Works
- Public Safety

Traffic Control Order Number: 1003

Date of Filing: August 21, 2019

In accordance with Chapter 27 of the Escanaba Code of Ordinances as amended, we have made an investigation of the traffic conditions on: **South side of 6th Avenue South near Lemmer School.**

at or near the intersection of: South 20th St.

And as a result of said investigation, do hereby direct that:

Additional No Parking during school hours signs be placed on the south side of 6th Avenue South just east and west of 20th Street

Further that the following controls be placed at the following locations:

Additional No Parking during school hours signs be placed on the south side of 6th Avenue South just east and west of 20th Street

Sign Direction (Facing): The signs will face east.

Sign(s) Location: **Southside of 6th Avenue South near South 20th Street (See attached Map)**

The following Traffic Control Order(s) are hereby rescinded: _____

This order shall expire 90 days from date of filing except that upon its approval by the Escanaba City Council, it shall not so expire.

Date of Filing with City Clerk

Signed: 
Traffic Engineer

Received for filing (date)

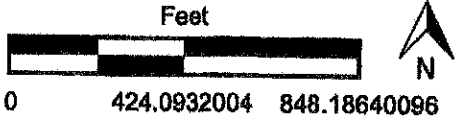
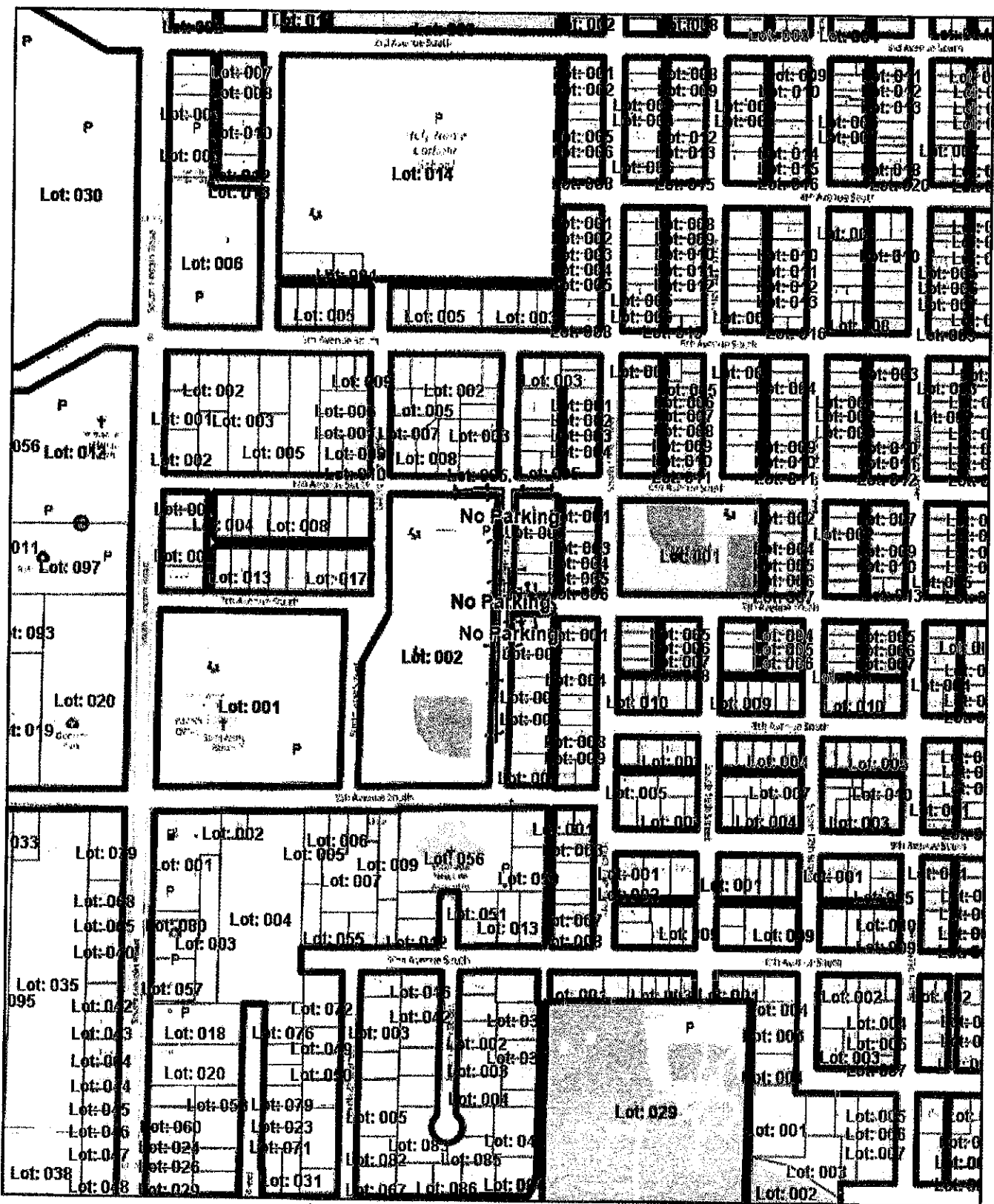
By: _____
City Clerk

Approved by the City of Escanaba Council on _____
Date

The Traffic Control Order is effective upon posting of the required street signs.

16" No parking during school hours

GIS Mapping



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

City Council Agenda Item Request

Date: 8-29-19

Name: Robert LaMarche

Department: Escanaba Public Safety

Item: Fire turnout gear purchase

Explanation for request:

Escanaba Public Safety would like purchase 32 sets of fire turnout gear from Firstdue Fire supply for the cost of \$96,534.08 which was the lowest bid. Any grant money applied for and awarded would be put towards the cost of the turnout gear. This was included in the 2019/2020 budget.



FORMAL BID

207 E KIPP RD, SUITE A
MASON MI 48854

Date	Quote #
7/26/2019	10272

**FOR ALL RETURNED ITEMS CUSTOMER IS
SUBJECT TO A 20% RE-STOCKING FEE**

BILL TO ESCANABA DPS 1900 3RD AVE NORTH ESCANABA, MI 49829	Ship To ESCANABA DPS 1900 3RD AVE NORTH ESCANABA, MI 49829
--	--

SIGNATURE REQUIRED FOR ORDER TO BE PLACED		Rep
SIGNATURE: _____ DATE _____		JOE H

Item	Description	Qty	Rate	Total
11274-G-ESCAN...	GLOBE GLD 32 M TPR- GX3J/GEMINI XT /DFNDR-M NPBR/CROSSTECH BLK ***** With the following features ***** L/Y 3" TRIPLE TRIM NYC/29&32 L/Y 2" SCOTCHLITE LETTERS SEWN ROW A EPSD *VISLON ZIPPER IN VELCRO OUT GLD *EXPPKT 2X8X8 W/FLC HANDWARMER *KEV BACK 2X8X8 GLD UNIVERSAL CLIP RC 2" ABV TRM GLD RADIO POCKET 2X3.5X8 LC L/Y 3" TRIPLE TRIM OVER RADIO POCKET GLD MICROPHONE STRAP 1X3 LC *ADJWL WITHOUT WRISTER NOMEX HAND AND WRIST GUARD LINER GX3/RXT *CUFF REINFORCEMENT SUEDE *CLR LOOP *TH SQUARE POCKET *NECK SNAPS COLLAR *NECK SNAPS LINER *DRD STORED ENERGY BAND LOWER NONE/UPR	32	1,333.27188	42,664.70

Subtotal	
Sales Tax (0.0%)	
Total	

Phone #	Fax #
517-969-3065	517-969-3066



FORMAL BID

207 E KIPP RD, SUITE A
MASON MI 48854

Date	Quote #
7/26/2019	10272

**FOR ALL RETURNED ITEMS CUSTOMER IS
SUBJECT TO A 20% RE-STOCKING FEE**

BILL TO ESCANABA DPS 1900 3RD AVE NORTH ESCANABA, MI 49829	Ship To ESCANABA DPS 1900 3RD AVE NORTH ESCANABA, MI 49829
--	--

SIGNATURE REQUIRED FOR ORDER TO BE PLACED		Rep
SIGNATURE: _____ DATE _____		JOE H

Item	Description	Qty	Rate	Total
21274-G-ESCAN...	GLOBE GLD TBD M RLX- GX3P/GEMINI XT /DFNDR-M NPBR/CROSSTECH BLK ***** With the following features ***** L/Y 3" TRIPLE TRIM AROUND CUFF *VLC CLOSURE *NOMEX BLT/TUNNEL GLD *EXP POCKET 2X10X10 *KEY BACK EXPANSION 2X10X10 *CUFF REINFORCEMENT SUEDE KNEE SHELL SUEDE KNEE LINER SILIZONE *REG BLACK PDRIP H BACK	32	1,004.60406	32,147.33
120A400 USTM6	GLOBE SUPREME 14" PULL ON ARTIC GRIP BULLARD Traditional styled fiberglass structural fire helmet with 4" faceshield & 6" brass eagle SPECIFY COLOR: Black, red, white, yellow	32	425.04	13,601.28
		32	247.52406	7,920.77
SHIPPING EXTRA	TRIPLE TRIM IS ADDITIONAL COST SHIPPING NOT TO EXCEED \$200 FOR THE COMPLETE PACKAGE. FIRST DUE WILL COVER ANY ADDITIONAL SHIPPING COSTS. *****NOTE PRICING FOR "PACKAGE BID" ONLY AND MUST INCLUDE ENTIRE PURCHASE. ANY INDIVIDUAL UNITS OR PARTIAL ORDERS ARE SUBJECT TO REGULAR RETAIL PRICING. PACKAGE PRICING GOOD UNTIL 10/1/2019 UNLESS APPROVED PRIOR TO ORDER.		200.00	200.00

Subtotal			\$96,534.08
Sales Tax (0.0%)			\$0.00
Total			\$96,534.08

Phone #	Fax #
517-969-3065	517-969-3066