

CITY OF IRONWOOD

MICHIGAN

CONSTRUCTION SPECIFICATIONS

AND

RELATED DOCUMENTS

FOR

CITY OF IRONWOOD

2019

ASPHALT PAVING PROGRAM

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BID ADVERTISEMENT

The City of Ironwood is soliciting bids for the asphalt removal and/or milling, for the asphalt paving of local streets.

Sealed offers will be received by the Ironwood City Clerk in the Memorial Building, Ironwood, Michigan 49938, until 10:00 A.M. local time, Thursday, August 8, 2019, at which time the bids shall be read aloud.

Bid Documents may be obtained from the Ironwood City Clerk, 213 S. Marquette Street, Ironwood, Michigan 49938.

The City reserves the right to accept or reject any and all bids.

Karen M. Gullan
City Clerk

SPECIAL PROVISIONS

1. Underground Utilities

- (a) For protection of underground utilities and in conformance with Public Act 53, 1974, the Contractor shall call 1-800-482-7171 a minimum of three full working days, excluding Saturdays, Sundays and Holidays prior to beginning each excavation in areas where public utilities have not been previously located. Members will thus be routinely notified. This does not relieve the Contractor of the responsibility of notifying utility owners who may not be part of the “Miss Dig” alert system.

3. Construction Coordination / Permits

- (a) Construction will need to be coordinated with the City of Ironwood Engineering Department.
- (b) The contractor will be responsible for obtaining the necessary permits from the State of Michigan and/or any other necessary agency. Contractor shall include all permit costs with their bid.

4. Requirements for Performance Security and Payment Security

- (a) The successful bidder, at the execution of the contract, shall furnish security to guarantee faithful performance of the contract in the amount of 100% of the total contract price.
- (b) The successful bidder shall also furnish security to guarantee payment to all persons supplying labor or materials in the performance of the contract in the amount of 100% of the total contract price.
- (c) Security may be in the form of a performance bond and payment bonds, postal money order, certified check or cashier’s check.
- (d) Upon completion of project the contractor shall provide lien wavers from all contractors and suppliers.
- (e) A 5% Bid Bond shall be provided with the submittal of the bid.

5. Commencement, Execution and Completion of Work

- (a) The contractor shall be required to commence work under this Contract within 5 calendar days after the date the Contractor receives the Notice to Proceed.
- (b) Execute the work diligently.
- (c) Working hours are between 7:00 A.M. and 9:00 P.M.
- (d) A construction Schedule shall be provided and approved by a City Representative.
- (e) No work shall be done on Saturday's or Sunday's unless approved in advance by a City Representative.

6. Failure to Complete Work Within Contract Time

Construction shall be fully completed by Friday, October 4, 2019. If the Contractor fails to prosecute the work, or any separate part thereof with such diligence as will insure its completion within the time specified in this contract, fixed and agreed Liquidate Damages will be assessed for each calendar day of delay until the work is completed and accepted. Liquidate Damages equal \$250 / Calendar Day.

7. Warranty / Defects

The Contractor shall be responsible for any and all defects that may develop in any part of the entire work or installation furnished by him/her. Upon written notice of the City of Ironwood, the contractor shall immediately replace and make good, without expense to the owner, any faulty part, material, or workmanship. A one-year warranty shall be provided by the contractor. The warranty shall start from the date the final payment is made.

SECTION A - BID SOLICITATION

Issued By: City of Ironwood

Type of Solicitation: Sealed Bid

Project Name: 2019 City of Ironwood Asphalt Paving Program

Project Description: Asphalt removal or milling existing asphalt streets, graveling, grading and re-shaping of material on existing base material, shoulder grading/minor ditching for positive drainage, hot mix asphalt, turf restoration and all appurtenances necessary for a complete project. This project also includes asphalt street patches at various locations around the city.

Project Location: See attached map for project locations.

Site Inspection: The contractor is encouraged to inspect the project locations prior to bidding.

Delivery of Proposal: The proposal shall be submitted in a sealed envelope, plainly marked with the name of the Project and the name and address of the Bidder on the outside of the envelope. All offers must be received by the City Clerk prior to the time and at the place specified in the advertisement.

Award: One Contract will be awarded, to the lowest responsive and responsible bidder. The City reserves the right to reject bids at its sole discretion.

SECTION B- OFFER AND SCHEDULE OF ITEMS

<u>Item No.</u>	<u>Item Description</u>	<u>Pay Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Amount Bid</u>
1000	Mobilization	LS	1	\$_____	\$_____
2100	Remove & Dispose of Existing Asphalt St. Surface	SYD	4,058	\$_____	\$_____
3000	Hot Mix Asphalt – (2½” thick on gravel base)	TN	620	\$_____	\$_____
3010	Asphalt Curbing	LF	3,000	\$_____	\$_____
3050	Mill Pavement (2”)	SYD	3,500	\$_____	\$_____
3060	2” Asphalt Overlay (Milled Streets)	TN	400	\$_____	\$_____
4000	Restoration & Turf Establishment (All Locations)	LS	1	\$_____	\$_____
7000	Remove & Replace Concrete Curb & Gutter	LF	90	\$_____	\$_____
7100	Remove & Replace Concrete Sidewalk	SQFT	1,500	\$_____	\$_____
9000	Street Patch-Local Streets (Various Locations)	SQFT	6,000	\$_____	\$_____
9950	Class 22A Gravel	TNS	300	\$_____	\$_____

SECTION B – OFFER AND SCHEDULE OF ITEMS (page 2)

9980	Centerline Striping	LF	750	\$_____	\$_____
9982	Stop Bar	LF	20	\$_____	\$_____
9983	Crosswalk	LF	32	\$_____	\$_____
TOTAL BID, ALL ITEMS				\$_____	

Basis of Award: One contract will be awarded to the lowest responsive and responsible bidder based on the Total Bid Price for all items.

Firm Name: _____ Signature: _____

Address: _____ Title: _____

_____ Date: _____

Telephone No. _____

SECTION C – BIDDING REQUIREMENTS, CONDITIONS
AND CONTRACT ADMINISTRATION

C-1. Competency of Bidders

- (a) The City Manager reserves the right to select bidders and may refuse to issue a proposal to any individual, partnership, firm or corporation based upon but not limited to one or more of the following facts:
 - (1) For having defaulted on previous contracts.
 - (2) For having preformed similar work in an unsatisfactory manner.
 - (3) When in the City Manager’s judgment the bidder does not have the required experience in the class of work bid on, fails to have the proper labor and equipment, or fails to have sufficient capital or quick asset to finance the work.

C-2. Interpretation of estimates, Specifications, Special Provisions and Site of Work

- (4) The quantities on the proposal are approximate only and given as a basis to compare bids. The City does not assume any responsibility that these quantities will remain unchanged in actual construction. The bidder is required to examine carefully the site of work, plans, specifications, and contract form for the proposed work. It will be assumed that he has judged for and satisfied himself as to the conditions to be encountered, as in the work, materials furnished, and in the above documents. The bidder is assumed to have familiarized himself with the Federal, State, and local laws which may affect the work, workers. Or materials furnished.

C-3. Delivery of Proposal

- (a) Each proposal must be submitted in a sealed envelope with the bidders name and address on the outside of the envelope. All proposals must be received on or before the hour stated in the advertisement. More than one proposal for the same project from an individual, partnership, firm, or corporation will not be considered. Faxed Bids are accepted.

C-4. Public Opening of Proposals

- (a) Proposals will be opened publicly and read aloud at the hour, date, and place set in the advertisement.

C-5. Execution of Contract

- (a) Contractor shall start work within five (5) days after receiving Notice of Award and Notice to Proceed. Notice to Proceed will be in the form of a City of Ironwood Purchase Order.
- (b) Project shall be completed by October 4th, 2019.

C-6. Contract Administration

- (a) Project Engineer: Scott Erickson, P.E., City Engineer
(906) 932-5050 ext. 116

C-7. Retainage

- (a) A five (5) percent retainage shall be withheld on all contract payments. The five percent retainage shall be paid upon final acceptance by the City of Ironwood of all work performed under this contract.

SECTION D – INSURANCE

D-1 Insurance

- (5) Workmen’s Compensation Insurance – The Contractor, prior to the execution of the Contract, shall file a certification that the Contractor carries Worker’s Compensation Insurance.

- (6) Bodily Injury and Property Damage Insurance – The Contractor prior to execution of the Contract shall file with the City of Ironwood copies of completed certificates of insurance, as evidence that the Contractor carries adequate insurance to afford protection against all claims for damages to public or private property and injuries to person, arising out of and during the progress of work. The minimum limits of insurance shall be as follows:
 - (7) General Liability
Bodily Injury and Property Damage Liability:
Each Occurrence.....\$1,000,000
Aggregate.....\$2,000,000

- (2) Automobile Liability Insurance (Comprehensive Form)
Bodily Injury Liability:
Each Person..... \$ 500,000
Each Occurrence.....\$1,000,000

Property Damage Liability:
Each Occurrence.....\$1,000,000

Combined Single Limit for Bodily Injury and Property Damage Liability:
Each Occurrence.....\$2,000,000

- (8) The requirements for 1 and 2 above, may be met through an Umbrella policy.

- (9) Owners Protective Liability. Bodily injury and property damage protection, including general supervision of work performed, shall be extended to the City of Ironwood employees and agents. The minimum limit shall be \$1,000,000.

Section E – Construction Specifications

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
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3000	Hot Mix Asphalt – (2 1/2” on Gravel Base)	14-15
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4000	Restoration & Turf Establishment (All Locations)	19
7000	Remove & Replace Concrete Curb & Gutter	20
7100	Remove & Replace Concrete Sidewalk	21
9000	Street Patch – Local Streets	22
9950	Class 22A Gravel	23
9980	Centerline Striping	23
9982	Stop Bar	24
9983	Crosswalk	24

*Note: All Street related work shall be done in accordance with Michigan Department of Transportation 2003 Standard Specifications for Construction and City of Ironwood Specifications for Construction and City of Ironwood Special Project Provisions

ITEM 1000 – MOBILIZATION

Description

- 1.1 Mobilization will be paid proportionately for each mobilization for a maximum of two moves. Mobilization shall not exceed \$10,000.00 total. The contractor shall anticipate and allow for up to two (2) separate mobilizations for milling, pulverizing, and paving. If additional mobilizations are needed they will be at the contractor's discretion and expense.

Measurement & Payment

- 2.1 This item is a lump sum item and will be paid proportionately for each mobilization. If only one mobilization is required, this item will be paid in full upon completion of project.

ITEM 2100 – REMOVE & DISPOSE OF EXISTING ASPHALT STREET SURFACE

Description

- 1.1 This work consists of the removal and disposal of the existing asphalt street surface, which includes shaping and re-compacting the existing base material and any additional gravel base that may be added. The street shall be graded for a 3% crown.

Material

- 2.1 Excavated material or any excess material shall become the property of the Contractor. The contractor shall be responsible to haul and dispose of any excess material. This shall be incidental to the contract.

Construction

- 3.1 The designated area shall have the asphalt removed to a full depth.
- 3.2 Street surface shall be graded to create a 3% crown. The roadway shall be graded to blend the new street surface with the adjacent driveways and terrain. Any excess material shall be removed from the roadway.
- 3.3 All material shall be compacted to 95% maximum density as per the standard proctor.
- 3.4 Any adjustment to manhole castings and water valve boxes shall be incidental.
- 3.5 This item shall be utilized for any driveway removal needed to taper to the new street surface elevation.

Measurement and Payment

- 4.1 Remove & dispose of existing asphalt street surface will be paid for by the square yard.

3000 – HOT MIX ASPHALT ON GRAVEL BASE

Description

- 1.1 This work consists of constructing a 2 ½ inch thick Hot Mix Asphalt surface over a compacted gravel base. There shall be one lift of asphalt. Hot Mix Asphalt shall be placed over a compacted base graded for a 3% crown. This work includes paving of Granite Street intersection at Penokee Road, Sunnyside and Ayer Street. Any paving of driveways to match grade at these locations will be included under this bit item.

Materials

- 2.1 The Hot Mix Asphalt mixture shall be Michigan 5E1 Super Pave – W/5828 A.C. Oil.
- 2.2 The mix design shall have been previously approved for use on other State of Michigan projects.
- 2.3 The mix design shall be submitted with the Bid Proposal.
- 2.4 The Contractor shall certify in writing that the materials used in the mixture are from the same source as the materials used in developing the Hot Mix Asphalt mixture.

Construction

- 3.1 The Hot Mix Asphalt pavement shall be paver laid, rolled and compacted.
- 3.2 All private driveways and intersecting bituminous streets shall be milled to provide a butt edge at approximately the end radius of the intersecting street.
- 3.3 A bond coat shall be applied to all vertical edges of any existing pavement and driveways before placing the new pavement. The bituminous bond coat material shall comply with the Michigan DOT Standard Specifications.
- 3.4 The Nuclear Gauge method of testing compaction will be used for this project.
- 3.5 Quality assurance and compaction testing will be performed. Initial costs of testing shall be paid by the City of Ironwood. Any failed test shall require repeat testing. Any repeat testing costs shall be paid by the Contractor.
- 3.6 A bituminous tack coat shall be applied to contact surfaces of the gutter or any other existing concrete or bituminous surface.
- 3.7 The new street grade shall be established to accommodate the adjacent driveway elevations. At extreme locations driveways shall be removed and replaced to adjust to the street elevations, overlaying of existing driveways shall be performed if necessary. Driveway overlays and/or wedging will be incidental to the contract.
- 3.8 Any adjustments to manholes and/or valves shall be incidental to the project.

Measurement and Pavement

- 4.1 Hot Mix Asphalt 5E1 Super Pave W/5828 Oil will be paid for by the ton.
- 4.2 The price shall include all costs for furnishing, placing and compacting.
- 4.3 Shaping the base prior to paving, if required, shall be done at no additional cost. The compacted gravel base shall be established at an elevation to accommodate the adjacent driveways and allow for positive drainage.
- 4.4 The City will have core samples taken of the new asphalt pavement.
- 4.5 Adjustment to manhole castings, storm sewer inlets and valve boxes shall be **incidental** to the contract.

ITEM 3050 – MILL EXISTING PAVEMENT - (2 INCH)

Description

- 1.1 This work shall consist of milling the existing street surface two (2) inches in depth. The millings shall be removed, and the surface properly swept and cleaned. The milling shall leave square edges for paving. If square edges are not attained the edges shall be saw cut. The milling shall be full width. The finished street crown shall be approximately 2% or match existing.

Material

- 2.1 Milled material (except for 200 cyd) shall become the property of the contractor. The contractor shall haul 200 cyd of millings to the City DPW Garage located at 200 Penokee Road. The contractor shall haul and dispose of excess material.

Construction

- 3.1 The existing bituminous pavement shall be milled to a depth of 2 inches.
- 3.2 The underlying pavement shall be swept and cleaned to allow a new asphalt surface to be installed.
- 3.3 The contractor shall saw cut straight lines between bituminous pavement to be removed and bituminous pavement to remain in place. Cuts may be required on the roadways, on intersecting street and/or at private driveways. This work shall be considered incidental to project.
- 3.4 The contractor shall not damage the adjoining areas of concrete or asphalt pavements, driveways, sidewalks, etc.
- 3.5 All cuts to be made with a concrete saw capable of cutting straight and true to a depth sufficient to allow for neat removal of existing concrete or asphalt pavement.

Measurement and Payment

- 4.1 Pavement milling shall be measured and paid for by the square yard of material removed to the specified depth and width and accepted by a City Representative. This pavement shall be measured by a City Representative prior to removal. Hauling 200 cyd's of millings is incidental to this bid item.

ITEM 3060 – HOT MIX ASPHALT (MILLED STREETS)

Description

- 1.1 This work consists of constructing a minimum 2-inch-thick Hot Mix Asphalt surface over a milled surface. Hot Mix Asphalt shall be placed over a milled surface and shall be paved with a crown to match existing.
- 1.2 The paving shall start in the southwest area of the City (Norrie Area). Also, streets may be added and/or removed from the project scope at the sole determination and discretion of the City.

Material

- 2.1 The Hot Mix Asphalt mixture shall be Michigan 5E1 Super Pave W/5828 A.C. Oil.
- 2.2 The mix design shall have been previously approved for use on other State of Michigan projects.
- 2.3 The mix design shall be submitted with the Bid Proposal.
- 2.4 The Contract shall certify in writing that the materials used in the mixture are from the same source as the materials used in developing the Hot Mix Asphalt mixture.

Construction

- 3.1 The Hot Mix Asphalt pavement shall be placed in one 2 inch dept (min.) lift. A base or wedge course may be needed to achieve a smooth paving surface.

The City will be taking core samples to insure a minimum pavement thickness of 2 inches.
- 3.2 All intersecting bituminous streets shall be milled to provide a butt edge at approximately the end radius of the intersecting street.
- 3.3 A bond coat shall be applied to all vertical edges of any existing pavement and driveways before placing the new pavement. The bituminous bond coat material shall comply with the Michigan DOT Standard Specifications.
- 3.4 The Nuclear Gauge method of testing compaction will be used for this project.
- 3.5 Quality assurance and compaction testing will be performed. Initial costs of testing shall be paid by the City of Ironwood. Any failed test shall require repeat testing. Any repeat testing costs shall be paid by the Contractor.

3.6 A bituminous tack coat shall be applied to contact surfaces of the gutter or any other existing concrete or bituminous surface. A tack coat shall be applied between the milled surface and the new asphalt surfacing.

3.7 Any adjustment to manholes and/or valves shall be incidental to the contract.

Measurement and Payment

4.1 Hot Mix Asphalt Michigan 5E1 Super Pave W/5828 Oil will be paid for by the ton.

4.2 The price shall include all costs for furnishing, placing, and compacting.

4.3 The City will have core samples taken of the new asphalt pavement.

4.4 All driveway transitions and/or driveway wedging shall be incidental to the Contractor.

4.5 Adjustment to manhole castings, storm sewer inlets and valve boxes shall be incidental to the contract.

ITEM 3070 – INSTALL BITUMINIOUS CURB

Description

1.1 This work consists of constructing integral bituminous curb with the new asphalt street surface.

Material

2.1 Compacting bituminous asphalt consistent with asphalt used for street paving.

Construction

3.1 Install new approximately 4 ½ inch high bituminous curb approximately 12 inches wide.

3.2 Bit Curb shall be integral with new street surface. Bit curb shall be paver laid integral with street surface.

3.3 Compaction as necessary.

Measurement and Payment

4.1 The bituminous curb shall be paid with the tonnage paid for street paving. Any additional cost shall be included in this lineal footage cost.

4.2 The bid price shall include all labor, materials, and equipment required to complete the work.

ITEM 4000 – RESTORATION & TURF ESTABLISHMENT

Description

- 1.2 This work shall consist of “grading to drain” all necessary areas adjacent to the roadway to insure positive drainage, top soiling, seeding, fertilizing, and mulching all disturbed areas. This item also includes topsoil & seeding, to blend the new street surface elevation to the adjacent terrain. A maximum 5:1 slope will be allowed. All mailbox locations shall be restored with a gravel shoulder as directed by the City representatives.

Materials

- 2.1 Seed shall be a mixture by weight of white clover (10%), red clover (10%), annual rye (20%), perennial rye (40%), and smooth brome (20%) or approved equal.
- 2.2 Fertilizer shall be 10-10-10.
- 2.3 Mulch may be hay or straw.
- 2.4 Gravel shall be MDOT 22A.

Construction

- 3.1 Hand seeding, fertilizing, and mulching is an acceptable method of application on disturbed areas.
- 3.2 Gravel shall be properly compacted.

Measurement and Payment

- 4.1 Restoration shall be paid as lump sum.
- 4.2 The bid price shall include all labor, materials, and equipment required to complete the work.

ITEM 7000 – REMOVE AND REPLACE CONCRETE CURB & GUTTER

Description

- 1.1 Remove existing and construct new concrete curb and gutter. Detail C-4 (or match existing), on a prepared base (6" compacted 22A). All work to be done in compliance with the City of Ironwood specifications for Curb and Gutter and MDOT Standard Plan for Concrete Curb and Gutter II-30D. Curb replacements will be at various locations around the community.

Materials

- 2.1 A minimum of 5000 psi concrete shall be used.

Construction

- 3.1 Prepare the base by shaping and compacting to not less than 95 percent maximum density. Obtain the City Representative's approval for the base before placing concrete.
- 3.2 Contractor may elect to use fixed forms of slip forming methods. Match the dimensions of the C-4 curb and gutter. Any stand-up curb (no gutter) shall have an 18 inch bury depth & shall match existing.
- 3.3 Quality assurance and compaction testing will be performed. Initial costs of testing shall be paid by the City of Ironwood. Any failed test shall require repeat testing. Any repeat testing shall be paid by the contractor.
- 3.4 All concrete surfaces shall be properly cured with a spray membrane once the concrete surface is finished.

Measurement and Payment

- 4.1 Payment for this Item includes all work required to remove and dispose of the existing concrete curb & gutter, prepare the base, furnish and place the new curb and gutter and cure the placed concrete.
- 4.2 Removal and disposal of existing curb and gutter is included with this bid item.
- 4.3 Driveway opening concrete gutter will be paid at the same unit price bid for concrete curb and gutter.
- 4.4 Concrete curb and gutter will be paid for by the linear foot removed, placed and accepted by a City Representative.

ITEM 7100 – REMOVE & REPLACE CONCRETE SIDEWALK

Description

- 1.1 Remove existing and construct new concrete sidewalk. The sidewalk shall be located at various locations around Ironwood.

Materials

- 2.1 4000 psi concrete
- 2.2 Clean, pulverized topsoil to backfill disturbed area.

Construction

- 3.1 Remove existing concrete sidewalk.
- 3.2 Construct new 4 inch thick concrete sidewalk on 6 inches of sand base. Sidewalk width shall be 5 ft. wide.
- 3.3 Quality assurance and compaction testing will be performed. Initial costs of testing shall be paid by the City of Ironwood. Any failed test shall require repeat testing. Any repeat testing shall be paid by the contractor.
- 3.4 All concrete surfaces shall be properly cured with a spray membrane once the concrete surface is established.
- 3.5 All disturbed areas around the concrete shall be properly backfilled, top soiled and seeded.

Measurement and Payment

- 4.1 Payment for this Item includes all work required to remove and dispose of the existing concrete sidewalk, prepare the base, furnish and place the new sidewalk, curing the placed concrete, and restoration.
- 4.2 Removal and disposal of existing sidewalk is included with this bid item.
- 4.3 Concrete Sidewalk will be paid for by the square foot removed, placed and accepted by a City Representative.

ITEM 9000 – STREET PATCH LOCAL STREETS

Description

1.1 This work consists of constructing street patches on local streets at various locations. The street patch shall consist of four inches of asphalt pavement.

Materials

- 2.1 The Hot Mix Asphalt Mixture shall be Michigan 5E1 Super Pave W/5828 A.C. Oil.
- 2.2 The Mix Design shall have been previously approved for use on other State of Michigan Projects.
- 2.3 The Mix Design shall be submitted with the Bid Proposal.
- 2.4 The Contractor shall certify in writing that the materials used in the Mixture are from the same source as the materials used in developing the Hot Mix Asphalt Mixture design.

Construction

- 3.1 The Hot Mix Asphalt Pavement shall be placed in two – two (2) inch thick compacted courses. Patches shall be paver laid unless approved **otherwise** by the City Representative.
- 3.2 All patch locations shall be saw cut (full depth) prior to removal. This is considered incidental to the contract.
- 3.3 A Bond Coat shall be applied to the vertical edge of the existing pavement and between lifts before placing the new pavement. The Bituminous Bond Coat material shall comply with the Michigan DOT Standard Specifications.
- 3.4 The Nuclear Gage method of testing compaction is waived for this project. The Number of Rollers Method shall apply.
- 3.5 Contractor shall be responsible for all removals and compacting necessary to prepare the area for paving.

Measurement and Payment

- 4.1 The street patch shall be paid on a square foot basis. The square foot price shall include all costs associated with constructing a complete patch.
- 4.2 The price shall include all costs for saw cutting, excavation and preparation, furnishing, placing and compacting.
- 4.3 Shaping and Base preparation prior to paving, if required, shall be done at no cost.

ITEM 9950 – CLASS 22A ROAD GRAVEL

Description

1.1 This work consists of installing 22A road gravel as directed by the City representative.

Materials

2.1 22A road gravel.

Construction

3.1 Install, grade, level, compact road gravel as directed by City Representative.

3.2 22A Gravel will also be installed along new asphalt street surface in location as directed by the City’s representative. Four (4) inches of gravel will be placed and compacted for the length of the streets. Gravel will also be used to provide approximately an 18 inch wide gravel shoulder.

3.3 Backfill and compaction.

Measurement and Payment

4.1 Payment shall be on a per ton basis.

4.2 The bid price shall include all labor, materials, and equipment required to complete the work.

ITEM 9980 – CENTERLINE STRIPING

Description

1.1 Provides for the complete installation of double yellow centerline striping.

Materials

2.1 Paint shall be Sherwin-Williams yellow or approved equal. Paint to include glass beads.

Construction

3.1 Install per MDOT specifications.

Measurement & Payment

4.1 Double yellow centerline will be paid based upon the linear footage of double yellow road centerline markings installed. **Each line is not paid separately.**

ITEM 9982 – STOP BAR

Description

1.1 Provide for the complete installation of 12-inch-wide white stop bar.

Materials

2.1 Paint shall be Sherwin-Williams white or approved equal. Paint to include glass beads.

Construction

3.1 Install per MDOT specifications.

Measurement & Payment

White stop bars shall be paid per lineal foot of 12 inch stop bar painted.

ITEM 9983 – CROSSWALK

Measurement & Payment

Twelve-inch crosswalk shall be paid per lineal foot of 12-inch crosswalk line installed.

Pulverized Street Project Paving Locations

1. Aurora Street (Norfolk St. to Suffolk St.) - Mill
2. Suffolk Street (Aurora to McLeod Ave.) – Mill
3. Ayer Street (at Hemlock St. corner) – Remove Asphalt/Pave
4. Sunnyside (Lawrence St. to Lowell St.) – Remove Asphalt/Pave
5. Granite Street (South of Penokee Rd.) – Shape & pave (2 ½”) This work shall be paid under bid item #3000
6. Pump Station Apron – Shape & Pave (2 ½”) This work shall be paid under bid item #3000

UTILITIES

The existing utilities listed below represent the best information available. This information does not relieve the contractor of the responsibility to be satisfied as to its accuracy and the location of existing utilities.

<u>NAME AND ADDRESS OF OWNER</u>	<u>UTILITY DESCRIPTION</u>
Ameritech 3255 US-41 West Marquette, MI 49855 Ms. Marsha Bertoldi (906) 779-2744	Telephone
Charter Communications 115 E. McLeod Ave. Ironwood, MI 49938 Greg Johnson (906) 932-1831	Cable TV
X-Cel Energy 101 Alfred Wright Blvd. Ironwood, MI 49938 Stacy Westeen (800) 895-4999	Electric & Gas
City of Ironwood 213 South Marquette Street Ironwood, MI 49938 Bob Tervonen (906) 932-5050	Water & Sewer

Owners of public utilities will not be required by the department to move additional poles and structures that are not within grading or structure limits in order to facilitate the operation of construction equipment, unless it is determined by the engineer that such pole line or structures constitute a hazard to the public or are extraordinarily dangerous to the contractor's operations.