



Contract Change Notice

State of Michigan Procurement

Michigan Department of Transportation
425 W Ottawa St, Lansing, MI 48933
PO Box 30050, Lansing, MI 48909

Change Notice Number 3
to
Contract Number 260000000622

Contractor	State
Corby Energy Services, Inc	Program Manager
6001 Schooner Drive	James Roath MDOT
Belleville, MI 48111	517-230-5631
David L. Carpenter, Jr.	RoathJ1@michigan.gov
Vice President	Contract Administrator
734-547-9237	Anna Swanson MDOT
dcarpenter@corbyenergy.com	517-230-2063
VS0020117	Swansona1@michigan.gov

Contract Summary

Description: Culvert Rehabilitation and Drainage Restoration, as Needed

Initial Effective Date		Initial Expiration Date		Initial Options Available		Expiration Date Before Change(s) Noted Below	
May 14, 2026		May 13, 2027		Four (4); one-year		May 13, 2027	
Payment Terms				Delivery Timeframe			
1%/10 days; Net 45 days							
Alternate Payment Options				Extended Purchasing			
N/A				No			
Minimum Delivery Requirements							

Description of Change Notice

Option	Length of Option	Extension	Length of Extension	Revised Exp. Date
No		No		No Change
Current Value	Value of Change Notice		Estimated Aggregate Contract Value	
\$16,356,188.95	\$450,000.00		\$16,806,188.95	

Change Notice Summary

Description: Effective October 15, 2026, the contract value is increased by \$450,000.00 for continued as-needed culvert rehabilitation and drainage restoration services. All other terms, conditions and specifications remain the same. Per Contractor and Agency agreement.



Contract Change Notice

State of Michigan Procurement

Michigan Department of Transportation
425 W Ottawa St, Lansing, MI 48933
PO Box 30050, Lansing, MI 48909

Change Notice Number 2
to
Contract Number 260000000622

Contractor	State
Corby Energy Services, Inc	Program Manager
6001 Schooner Drive	James Roath MDOT
Belleville, MI 48111	517-230-5631
David L. Carpenter, Jr.	RoathJ1@michigan.gov
Vice President	Contract Administrator
734-547-9237	Anna Swanson MDOT
dcarpenter@corbyenergy.com	517-230-2063
VS0020117	Swansona1@michigan.gov

Contract Summary

Description: Culvert Rehabilitation and Drainage Restoration, as Needed

Initial Effective Date		Initial Expiration Date		Initial Options Available		Expiration Date Before Change(s) Noted Below	
May 14, 2026		May 13, 2027		Four (4); one-year		May 13, 2027	
Payment Terms				Delivery Timeframe			
1%/10 days; Net 45 days							
Alternate Payment Options				Extended Purchasing			
N/A				No			
Minimum Delivery Requirements							

Description of Change Notice

Option	Length of Option	Extension	Length of Extension	Revised Exp. Date
No		No		No Change
Current Value	Value of Change Notice		Estimated Aggregate Contract Value	
\$16,356,188.95	\$0.00		\$16,356,188.95	

Change Notice Summary

Description: Upon execution, Schedule B Pricing has been modified to add additional line items, see attached Schedule B - Pricing Additional Items Change Notice 2 for continued as-needed culvert rehabilitation and drainage restoration services. All other terms, conditions and specifications remain the same. Per Contractor and Agency agreement.

Schedule B - Pricing Additional Items Change Notice 2

Note: All prices are Not to Exceed amounts and are the maxiumum price allowed. Contractor's unit prices Must Not Exceed these prices.

Section A: Cured-in-place Pipe (CIPP) Lining	Quantity	Unit	Unit Price
(Prices based on 80' minimum length)			
60-inch diameter x 18.0-mm thickness	1	Linear Foot	\$1,925.00
66-inch diameter x 18.0-mm thickness	1	Linear Foot	\$2,625.00
72-inch diameter x 18.0-mm thickness	1	Linear Foot	\$4.095.00
Section K: Additional Items (As needed per project)	Quantity	Unit	Unit Price
Crane (One (1) Day Minimum)	1	Day	\$20,000.00



Contract Change Notice

State of Michigan Procurement

Michigan Department of Transportation
425 W Ottawa St, Lansing, MI 48933
PO Box 30050, Lansing, MI 48909

Change Notice Number. 1
to
Contract Number 260000000622

Contractor	State
Corby Energy Services, Inc	Program Manager
6001 Schooner Drive	James Roath MDOT
Belleville, MI 48111	517-230-5631
David L. Carpenter, Jr.	RoathJ1@michigan.gov
Vice President	Contract Administrator
734-547-9237	Anna Swanson MDOT
dcarpenter@corbyenergy.com	517-230-2063
VS0020117	Swansona1@michigan.gov

Contract Summary

Description: Culvert Rehabilitation and Drainage Restoration, as Needed

Initial Effective Date		Initial Expiration Date		Initial Options Available		Expiration Date Before Change(s) Noted Below	
May 14, 2026		May 13, 2027		Four (4); one-year		May 13, 2027	
Payment Terms				Delivery Timeframe			
1%/10 days; Net 45 days							
Alternate Payment Options				Extended Purchasing			
N/A				No			
Minimum Delivery Requirements							

Description of Change Notice

Option	Length of Option	Extension	Length of Extension	Revised Exp. Date
No		No		No Change
Current Value	Value of Change Notice		Estimated Aggregate Contract Value	
4,356,188.95	\$12,000,000.00		\$16,356,188.95	

Change Notice Summary
Description: Upon execution and State Administrative Board approval on June 16, 2026, Schedule B Pricing has been modified to add additional line items, see attached Schedule B - Pricing Additional Items Change Notice 1 and the contract value is increased by \$12,000,000.00 for continued as-needed culvert rehabilitation and drainage restoration services. All other terms, conditions and specifications remain the same. Per Contractor and Agency agreement.

Schedule B - Pricing Additional Items Change Notice 1

Note: All prices are Not to Exceed amounts and are the maximum price allowed. Contractor's unit prices Must Not Exceed these prices.

Section K: Additional Items (As needed per project)	Quantity	Unit	Unit Price
Hand Chipping, minimum 20 SF	1	Square Foot	\$ 575.00
Latex modified concrete patching mix, minimum 2.5 CY	1	Cubic Yard	\$ 12,000.00
Patch Forming, minimum 20 SF	1	Square Foot	\$ 500.00
Adhesive Anchoring, up to #8 Anchor Bars Special	1	Each	\$ 235.00
Epoxy Coated Deformed Bars up to #8	1	Pound	\$ 45.00
Reinforcement Mechanical Splice, minimum 5' per location	1	Each	\$ 660.00
Structural Concrete S2, formed, Special Existing structure, minimum 2.5 CY	1	Cubic Yard	\$ 8,000.00
Joint Waterproofing, minimum 20 SF	1	Square Foot	\$ 175.00
Temporary Work Walkway/waterway platform	1	Each	\$ 13,500.00
Temporary Dam, minimum 20 LF	1	Linear Foot	\$ 750.00
Contractor Staking	1	Lump Sum	\$ 13,000.00
Shoulder Class II	1	Ton	\$ 170.00
Project Clean-up	1	Lump Sum	\$ 15,500.00
Wing Wall/End wall modifications	1	Lump Sum	\$ 18,000.00
Hard Surface Pavement Removal	1	Square Yard	\$ 65.00
Misc. Traffic Devices	1	Lump Sum	\$ 14,500.00
Earth Fill Material	1	Cubic Yard	\$ 65.00
Rip Rap placed on slopes or used as check dams/energy dissipaters	1	Square Yard	\$ 485.00

Note: Additional Items may apply to each section of the Contract



Notice of Contract

State of Michigan Procurement

Michigan Department of Transportation
425 W Ottawa St, Lansing, MI 48933
PO Box 30050, Lansing, MI 48909

Notice of Contract No. 260000000622
between
The State of Michigan
and

Contractor	State
Corby Energy Services, Inc	Program Manager
6001 Schooner Drive	James Roath MDOT
Belleville, MI 48111	517-230-5631
David L. Carpenter, Jr.	RoathJ1@michigan.gov
Vice President	Contract Administrator
734-547-9237	Anna Swanson MDOT
dcarpenter@corbyenergy.com	517-230-2063
VS0020117	Swansona1@michigan.gov

Contract Summary

Description: Culvert Rehabilitation and Drainage Restoration, as Needed

Initial Effective Date	Initial Expiration Date	Initial Options Available	Expiration Date Before Change(s) Noted Below
May 14, 2026	May 13, 2027	Four (4); one-year	
Payment Terms		Delivery Timeframe	
1%/10 days; Net 45 days			
Alternate Payment Options		Extended Purchasing	
N/A		No	
Minimum Delivery Requirements			
Miscellaneous Information			
This Contract Agreement is awarded on the basis of the State’s inquiry bearing the solicitation number RFP 260000001634 and State Administrative Board approval on May 12, 2026.			

Estimated Contract Value at Time of Execution:

\$4,356,188.95

STANDARD CONTRACT TERMS

This STANDARD CONTRACT (“**Contract**”) is agreed to between the State of Michigan (the “**State**”) and Corby Energy Services, Inc (“**Contractor**”), a Michigan corporation. This Contract is effective on May 14, 2026 (“**Effective Date**”), and unless terminated, will expire on May 13, 2027 (the “**Term**”).

This Contract may be renewed for up to four (4) additional one-year period(s). Renewal is at the sole discretion of the State and will automatically extend the Term of this Contract. The State will document its exercise of renewal options via Contract Change Notice.

The parties agree as follows:

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

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

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

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

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

If to State:	If to Contractor:
Anna Swanson 425 W Ottawa Street Lansing, MI 48933 Swansona1@michigan.gov 517-230-2063	David L. Carpenter, Jr., Vice President 6001 Schooner Drive Belleville, MI 48111 dcarpenter@corbyenergy.com 734-547-9237

- 3. Contract Administrator.** The Contract Administrator, or the individual duly authorized for each party, is

the only person authorized to modify any terms of this Contract, and approve and execute any change under this Contract (each a “**Contract Administrator**”):

State:	Contractor:
Anna Swanson 425 W Ottawa Street Lansing, MI 48933 Swansona1@michigan.gov 517-230-2063	David L. Carpenter, Jr., Vice President 6001 Schooner Drive Belleville, MI 48111 dcarpenter@corbyenergy.com 734-547-9237

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

State:	Contractor:
James Roath 6333 Lansing Road Lansing, MI 48917 RoathJ1@michigan.gov 517-230-5361	David L. Carpenter, Jr., Vice President 6001 Schooner Drive Belleville, MI 48111 dcarpenter@corbyenergy.com 734-547-9237

5. **Performance Guarantee.** Contractor must at all times have financial resources sufficient, in the opinion of the State, to ensure performance of the Contract and must provide proof upon request. The State may require a performance bond (as specified in a Statement of Work) if, in the opinion of the State, it will ensure performance of the Contract.

6. **Insurance Requirements.**

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

- (2) Renewal insurance certificates must be provided on annual basis or as otherwise commensurate with the effective dates of coverage for any insurance required herein.
- (3) Insurance certificates must be in the form of a standard ACORD Insurance Certificate unless otherwise approved by DTMB Enterprise Risk Management.
- (4) All insurance certificates must clearly identify the Contract Number (e.g., notated under the Description of Operations on an ACORD form).
- (5) The State may require additional proofs of insurance or solvency, including but not limited to policy declarations, policy endorsements, policy schedules, self-insured certification or authorization, and audited financial statements.
- (6) In the event any required coverage is cancelled or not renewed, Contractor must provide written notice to the Contract Administrator no later than 5 business days following such cancellation or nonrenewal.

f. Subcontractors. Contractor is responsible for ensuring its subcontractors, if any, carry and maintain insurance coverage as applicable to the subcontracted service(s).

g. Limits of Coverage & Specific Endorsements. (See Table 6.1 Below)

TABLE 6.1

Required Limits	Additional Requirements
Commercial General Liability Insurance	
Minimum Limits: \$1,000,000 Each Occurrence \$1,000,000 Personal & Advertising Injury \$2,000,000 Products/Completed Operations \$2,000,000 General Aggregate	Contractor must have their policy endorsed to add “the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents” as additional insureds using endorsement CG 20 10 11 85, or both CG 20 10 12 19 and CG 20 37 12 19. Coverage must not have exclusions or limitations related to sexual abuse and molestation liability.
Umbrella or Excess Liability Insurance	
Minimum Limits: \$5,000,000 General Aggregate	Contractor must have their policy follow form.
Automobile Liability Insurance	
Minimum Limits: \$1,000,000 Per Accident	Contractor must have their policy: (1) endorsed to add “the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents” as additional insureds; and (2) include Hired and Non-Owned Automobile coverage.

Required Limits	Additional Requirements
Workers' Compensation Insurance	
Minimum Limits: Coverage according to applicable laws governing work activities.	Waiver of subrogation, except where waiver is prohibited by law.
Employers Liability Insurance	
Minimum Limits: \$500,000 Each Accident \$500,000 Each Employee by Disease \$500,000 Aggregate Disease	
Environmental and Pollution Liability (Errors and Omissions)	
Minimum Limits: \$1,000,000 Each Occurrence \$2,000,000 Annual Aggregate	Contractor must have their policy: (1) be applicable to the work being performed, including completed operations equal to or exceeding statute of repose; (2) not have exclusions or limitations related to Transportation (upset overturn, spills during loading or unloading, Hazardous Materials Handling, and Non Owned disposal site liability; and (3) endorsed to add "the State of Michigan, its departments, division, agencies, offices, commissions, officers, employees, and agents" as additional insured.

h. Non-Waiver. This Section 6 is not intended to and is not to be construed in any manner as waiving, restricting or limiting the liability of either party for any obligations under this Contract, including any provisions hereof requiring Contractor to indemnify, defend and hold harmless the State.

7. Reserved

8. Reserved

9. Relationship of the Parties. The relationship between the parties is that of independent contractors. Contractor, its employees, and agents will not be considered employees of the State. No partnership or joint venture relationship is created by virtue of this Contract. Contractor, and not the State, is responsible for the payment of wages, benefits and taxes of Contractor's employees and any subcontractors. Prior performance does not modify Contractor's status as an independent contractor. Neither party has authority to contract for nor bind the other party in any manner whatsoever.

10. Intellectual Property Rights. If a Statement of Work requires Contractor to create any intellectual property, Contractor hereby acknowledges that the State is and will be the sole and exclusive owner of all right, title, and interest in the Contract Activities and all associated intellectual property rights, if any. Such Contract Activities are works made for hire as defined in Section 101 of the Copyright Act of 1976. To the extent any Contract Activities and related intellectual property do not qualify as works made for hire under the Copyright Act, Contractor will, and hereby does, immediately on its creation, assign, transfer and otherwise convey to the State, irrevocably and in perpetuity, throughout the universe, all right, title and interest in and to the Contract Activities, including all intellectual property rights therein.

11. Subcontracting. Contractor may not delegate any of its obligations under the Contract without the prior written approval of the State. Contractor must notify the State at least 90 calendar days before the proposed delegation and provide the State any information it requests to determine whether the

delegation is in its best interest. If approved, Contractor must: (a) be the sole point of contact regarding all contractual matters, including payment and charges for all Contract Activities; (b) make all payments to the subcontractor; and (c) incorporate the terms and conditions contained in this Contract in any subcontract with a subcontractor. Contractor remains responsible for the completion of the Contract Activities, compliance with the terms of this Contract, and the acts and omissions of the subcontractor. The State, in its sole discretion, may require the replacement of any subcontractor.

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

In the event of a change of control, Contractor must require the successor to assume this Contract and all of its obligations under this Contract.
- 16. Ordering.** Contractor is not authorized to begin performance until receipt of authorization as identified in a Statement of Work.
- 17. Acceptance.** Contract Activities are subject to inspection and testing by the State within 30 calendar days of the State's receipt of them ("**State Review Period**"), unless otherwise provided in a Statement of Work. If the Contract Activities are not fully accepted by the State, the State will notify Contractor by

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

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

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

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

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

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

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

- 22. Liquidated Damages.** Liquidated damages, if applicable, will be assessed as described in a Statement of Work. The parties understand and agree that any liquidated damages (which includes but is not limited to applicable credits) set forth in this Contract are reasonable estimates of the State's damages in accordance with applicable law. The parties acknowledge and agree that Contractor could incur liquidated damages for more than 1 event. The assessment of liquidated damages will not constitute a waiver or release of any other remedy the State may have under this Contract for Contractor's breach of this Contract, including without limitation, the State's right to terminate this Contract for cause under Section 24 and the State will be entitled in its discretion to recover actual damages caused by Contractor's failure to perform its obligations under this Contract. However, the State will reduce such actual damages by the amounts of liquidated damages received for the same events causing the actual damages. Amounts due the State as liquidated damages may be set off against any fees payable to Contractor under this Contract, or the State may bill Contractor as a separate item and Contractor will promptly make payments on such bills.
- 23. Stop Work Order.** The State may suspend any or all activities under the Contract at any time. The State will provide Contractor a written stop work order detailing the suspension. Contractor must comply with the stop work order upon receipt. Within 90 calendar days, or any longer period agreed to by Contractor, the State will either: (a) issue a notice authorizing Contractor to resume work, or (b) terminate the Contract or delivery order. The State will not pay for Contract Activities, Contractor's lost profits, or any additional compensation during a stop work period.
- 24. Termination for Cause.** (a) The State may terminate this Contract for cause, in whole or in part, if Contractor, as determined by the State: (i) endangers the value, integrity, or security of any facility, data,

or personnel; (ii) becomes insolvent, petitions for bankruptcy court proceedings, or has an involuntary bankruptcy proceeding filed against it by any creditor; (iii) engages in any conduct that may expose the State to liability; (iv) breaches any of its material duties or obligations under this Contract; or (v) fails to cure a breach within the time stated by the State in a notice of breach, if in its sole discretion the State has chosen to provide a time to cure. Any reference to specific breaches being material breaches within this Contract will not be construed to mean that other breaches are not material.

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

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

25. Termination for Convenience. The State may immediately terminate this Contract in whole or in part without penalty and for any reason or no reason, including but not limited to, appropriation or budget shortfalls. The termination notice will specify whether Contractor must: (a) cease performance of the Contract Activities immediately. Contractor must submit all invoices for Contract Activities accepted by the State within 30 days of the date of termination. Failure to submit an invoice within that timeframe will constitute a waiver by Contractor for any amounts due Contractor for Contract Activities accepted by the State under this Contract, or (b) continue to perform the Contract Activities in accordance with Section 26, Transition Responsibilities. If the State terminates this Contract for convenience, the State will pay all reasonable costs, as determined by the State, for State approved Transition Responsibilities to the extent the funds are available.

26. Transition Responsibilities. Upon termination or expiration of this Contract for any reason, Contractor must, for a period of time specified by the State (not to exceed **90** calendar days), provide all reasonable transition assistance requested by the State, to allow for the expired or terminated portion of the Contract Activities to continue without interruption or adverse effect, and to facilitate the orderly transfer of such Contract Activities to the State or its designees. Such transition assistance may include, but is not limited to: (a) continuing to perform the Contract Activities at the established Contract rates; (b) taking all reasonable and necessary measures to transition performance of the work, including all applicable Contract Activities, training, equipment, software, leases, reports and other documentation, to the State or the State's designee; (c) transferring title in and delivering to the State, at the State's discretion, all completed or partially completed deliverables prepared under this Contract as of the Contract termination date; and (d) preparing an accurate accounting from which the State and Contractor may reconcile all outstanding accounts (collectively, "**Transition Responsibilities**"). This Contract will automatically be extended through the end of the transition period.

27. Return of State Property. Upon termination or expiration of this Contract for any reason, Contractor must take all necessary and appropriate steps, or such other action as the State may direct, to preserve, maintain, protect, or return to the State all materials, data, property, and confidential information provided directly or indirectly to the Contractor by any entity, agent, vendor, or employee of the State.

28. Indemnification. Contractor must defend, indemnify and hold the State, its departments, divisions, agencies, offices, commissions, officers, and employees harmless, without limitation, from and against any and all actions, claims, losses, liabilities, damages, costs, attorney fees, and expenses (including those required to establish the right to indemnification), arising out of or relating to: (a) any breach by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable) of any of the promises, agreements, representations, warranties, or insurance requirements contained in this Contract; (b) any infringement, misappropriation, or other violation of any intellectual property right or other right of any third party; (c) any bodily injury, death, or damage to real or tangible personal property occurring wholly or in part due to action or inaction by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable); and (d) any acts or omissions of Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable).

The State will notify Contractor in writing if indemnification is sought; however, failure to do so will not relieve Contractor, except to the extent that Contractor is materially prejudiced. Contractor must, to the satisfaction of the State, demonstrate its financial ability to carry out these obligations.

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

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

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

29. Infringement Remedies. If, in either party's opinion, any piece of equipment, software, commodity, or service supplied by Contractor or its subcontractors, or its operation, use or reproduction, is likely to become the subject of a copyright, patent, trademark, or trade secret infringement claim, Contractor must, at its expense: (a) procure for the State the right to continue using the equipment, software, commodity, or service, or if this option is not reasonably available to Contractor, (b) replace or modify the same so that it becomes non-infringing; or (c) accept its return by the State with appropriate credits to the State against Contractor's charges and reimburse the State for any losses or costs incurred as a consequence of the State ceasing its use and returning it.

30. Limitation of Liability and Disclaimer of Damages. IN NO EVENT WILL THE STATE'S AGGREGATE LIABILITY TO CONTRACTOR UNDER THIS CONTRACT, REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR BY STATUTE OR OTHERWISE, FOR ANY CLAIM RELATED TO OR ARISING UNDER THIS CONTRACT, EXCEED THE MAXIMUM

AMOUNT OF FEES PAYABLE UNDER THIS CONTRACT. The State is not liable for consequential, incidental, indirect, or special damages, regardless of the nature of the action.

- 31. Disclosure of Litigation, or Other Proceeding.** Contractor must notify the State within 14 calendar days of receiving notice of any litigation, investigation, arbitration, or other proceeding (collectively, “**Proceeding**”) involving Contractor, a subcontractor, or an officer or director of Contractor or subcontractor, that arises during the term of the Contract, including: (a) a criminal Proceeding; (b) a parole or probation Proceeding; (c) a Proceeding under the Sarbanes-Oxley Act; (d) a civil Proceeding involving: (1) a claim that might reasonably be expected to adversely affect Contractor’s viability or financial stability; or (2) a governmental or public entity’s claim or written allegation of fraud; or (3) any complaint filed in a legal or administrative proceeding alleging the Contractor or its subcontractors discriminated against its employees, subcontractors, vendors, or suppliers during the term of this Contract; or (e) a Proceeding involving any license that Contractor is required to possess in order to perform under this Contract.
- 32. Reserved**
- 33. State Data.**
- a. Ownership.** The State’s data (“**State Data**,” which will be treated by Contractor as Confidential Information) includes: (a) the State’s data, user data, and any other data collected, used, processed, stored, or generated as the result of the Contract Activities; (b) personally identifiable information (“**PII**”) collected, used, processed, stored, or generated as the result of the Contract Activities, including, without limitation, any information that identifies an individual, such as an individual’s social security number or other government-issued identification number, date of birth, address, telephone number, biometric data, mother’s maiden name, email address, credit card information, or an individual’s name in combination with any other of the elements here listed; and, (c) protected health information (“**PHI**”) collected, used, processed, stored, or generated as the result of the Contract Activities, which is defined under the Health Insurance Portability and Accountability Act (HIPAA) and its related rules and regulations. State Data is and will remain the sole and exclusive property of the State and all right, title, and interest in the same is reserved by the State.
 - b. Contractor Use of State Data.** Contractor is provided a limited license to State Data for the sole and exclusive purpose of providing the Contract Activities, including a license to collect, process, store, generate, and display State Data only to the extent necessary in the provision of the Contract Activities. Contractor must: (a) keep and maintain State Data in strict confidence, using such degree of care as is appropriate and consistent with its obligations as further described in this Contract and applicable law to avoid unauthorized access, use, disclosure, or loss; (b) use and disclose State Data solely and exclusively for the purpose of providing the Contract Activities, such use and disclosure being in accordance with this Contract, any applicable Statement of Work, and applicable law; (c) keep and maintain State Data in the continental United States and (d) not use, sell, rent, transfer, distribute, commercially exploit, or otherwise disclose or make available State Data for Contractor’s own purposes or for the benefit of anyone other than the State without the State’s prior written consent. Contractor’s misuse of State Data may violate state or federal laws, including but not limited to MCL 752.795.
 - c. Extraction of State Data.** Contractor must, within 5 business days of the State’s request, provide the State, without charge and without any conditions or contingencies whatsoever (including but not

limited to the payment of any fees due to Contractor), an extract of the State Data in the format specified by the State.

- d. Backup and Recovery of State Data.** Unless otherwise specified in a Statement of Work, Contractor is responsible for maintaining a backup of State Data and for an orderly and timely recovery of such data. Unless otherwise described in a Statement of Work, Contractor must maintain a contemporaneous backup of State Data that can be recovered within 2 hours at any point in time.
- e. Loss or Compromise of Data.** In the event of any act, error or omission, negligence, misconduct, or breach on the part of Contractor that compromises or is suspected to compromise the security, confidentiality, or integrity of State Data or the physical, technical, administrative, or organizational safeguards put in place by Contractor that relate to the protection of the security, confidentiality, or integrity of State Data, Contractor must, as applicable: (a) notify the State as soon as practicable but no later than 24 hours of becoming aware of such occurrence; (b) cooperate with the State in investigating the occurrence, including making available all relevant records, logs, files, data reporting, and other materials required to comply with applicable law or as otherwise required by the State; (c) in the case of PII or PHI, at the State's sole election, (i) with approval and assistance from the State, notify the affected individuals who comprise the PII or PHI as soon as practicable but no later than is required to comply with applicable law, or, in the absence of any legally required notification period, within 5 calendar days of the occurrence; or (ii) reimburse the State for any costs in notifying the affected individuals; (d) in the case of PII, provide third-party credit and identity monitoring services to each of the affected individuals who comprise the PII for the period required to comply with applicable law, or, in the absence of any legally required monitoring services, for no less than 24 months following the date of notification to such individuals; (e) perform or take any other actions required to comply with applicable law as a result of the occurrence; (f) pay for any costs associated with the occurrence, including but not limited to any costs incurred by the State in investigating and resolving the occurrence, including reasonable attorney's fees associated with such investigation and resolution; (g) without limiting Contractor's obligations of indemnification as further described in this Contract, indemnify, defend, and hold harmless the State for any and all claims, including reasonable attorneys' fees, costs, and incidental expenses, which may be suffered by, accrued against, charged to, or recoverable from the State in connection with the occurrence; (h) be responsible for recreating lost State Data in the manner and on the schedule set by the State without charge to the State; and (i) provide to the State a detailed plan within 10 calendar days of the occurrence describing the measures Contractor will undertake to prevent a future occurrence. Notification to affected individuals, as described above, must comply with applicable law, be written in plain language, not be tangentially used for any solicitation purposes, and contain, at a minimum: name and contact information of Contractor's representative; a description of the nature of the loss; a list of the types of data involved; the known or approximate date of the loss; how such loss may affect the affected individual; what steps Contractor has taken to protect the affected individual; what steps the affected individual can take to protect himself or herself; contact information for major credit card reporting agencies; and, information regarding the credit and identity monitoring services to be provided by Contractor. The State will have the option to review and approve any notification sent to affected individuals prior to its delivery. Notification to any other party, including but not limited to public media outlets, must be reviewed and approved by the

State in writing prior to its dissemination. The parties agree that any damages relating to a breach of this **Section 33** are to be considered direct damages and not consequential damages.

- f. State's Governance, Risk and Compliance (GRC) platform.** Contractor is required to assist the State with its security accreditation process through the development, completion and ongoing updating of a system security plan using the State's automated GRC platform and implement any required safeguards or remediate any security vulnerabilities as identified by the results of the security accreditation process.
- g. Third-Party Requests.** Contractor will immediately notify the State upon receipt of any third-party requests which in any way might reasonably require access to State Data. Contractor will notify the State Program Managers or their designees by the fastest means available and also in writing. Contractor must provide such notification within twenty-four (24) hours from Contractor's receipt of the request. Contractor will not respond to subpoenas, service of process, FOIA requests, and other legal requests related to the State without first notifying the State. Upon request by the State, Contractor must provide to the State, its proposed response to the third-party request with adequate time for the State to review, and, as it deems necessary, to revise the response, object, or take other action.

34. Non-Disclosure of Confidential Information. The parties acknowledge that each party may be exposed to or acquire communication or data of the other party that is confidential, privileged communication not intended to be disclosed to third parties.

- a. Meaning of Confidential Information.** For the purposes of this Contract, the term "**Confidential Information**" means all information and documentation of a party that: (a) has been marked "confidential" or with words of similar meaning, at the time of disclosure by such party; (b) if disclosed orally or not marked "confidential" or with words of similar meaning, was subsequently summarized in writing by the disclosing party and marked "confidential" or with words of similar meaning; or, (c) should reasonably be recognized as confidential information of the disclosing party. The term "Confidential Information" does not include any information or documentation that was or is: (a) subject to disclosure under the Michigan Freedom of Information Act (FOIA); (b) already in the possession of the receiving party without an obligation of confidentiality; (c) developed independently by the receiving party, as demonstrated by the receiving party, without violating the disclosing party's proprietary rights; (d) obtained from a source other than the disclosing party without an obligation of confidentiality; or, (e) publicly available when received, or thereafter became publicly available (other than through any unauthorized disclosure by, through, or on behalf of, the receiving party). For purposes of this Contract, in all cases and for all matters, State Data is deemed to be Confidential Information.
- b. Obligation of Confidentiality.** The parties agree to hold all Confidential Information in strict confidence and not to copy, reproduce, sell, transfer, or otherwise dispose of, give or disclose such Confidential Information to third parties other than employees, agents, or subcontractors of a party who have a need to know in connection with this Contract or to use such Confidential Information for any purposes whatsoever other than the performance of this Contract. The parties agree to advise and require their respective employees, agents, and subcontractors of their obligations to keep all Confidential Information confidential. Disclosure to a subcontractor is permissible where: (a) use of a subcontractor is authorized under this Contract; (b) the disclosure is necessary or

otherwise naturally occurs in connection with work that is within the subcontractor's responsibilities; and (c) Contractor obligates the subcontractor in a written contract to maintain the State's Confidential Information in confidence. At the State's request, any employee of Contractor or any subcontractor may be required to execute a separate agreement to be bound by the provisions of this Section.

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

35. Data Privacy and Information Security.

- a. Undertaking by Contractor.** Without limiting Contractor's obligation of confidentiality as further described, Contractor is responsible for establishing and maintaining a data privacy and information security program, including physical, technical, administrative, and organizational safeguards, that is designed to: (a) ensure the security and confidentiality of the State Data; (b) protect against any anticipated threats or hazards to the security or integrity of the State Data; (c) protect against unauthorized disclosure, access to, or use of the State Data; (d) ensure the proper disposal of State Data; and (e) ensure that all employees, agents, and subcontractors of Contractor, if any, comply with all of the foregoing. In no case will the safeguards of Contractor's data privacy and information security program be less stringent than the safeguards used by the State, and Contractor must at all times comply with all applicable State IT policies and standards, which are available to Contractor upon request.

- b. Audit by Contractor.** No less than annually, Contractor must conduct a comprehensive independent third-party audit of its data privacy and information security program and provide such audit findings to the State.
- c. Right of Audit by the State.** Without limiting any other audit rights of the State, the State has the right to review Contractor's data privacy and information security program prior to the commencement of Contract Activities and from time to time during the term of this Contract. During the providing of the Contract Activities, on an ongoing basis from time to time and without notice, the State, at its own expense, is entitled to perform, or to have performed, an on-site audit of Contractor's data privacy and information security program. In lieu of an on-site audit, upon request by the State, Contractor agrees to complete, within 45 calendar days of receipt, an audit questionnaire provided by the State regarding Contractor's data privacy and information security program.
- d. Audit Findings.** Contractor must implement any required safeguards as identified by the State or by any audit of Contractor's data privacy and information security program.
- e. State's Right to Termination for Deficiencies.** The State reserves the right, at its sole election, to immediately terminate this Contract or a Statement of Work without limitation and without liability if the State determines that Contractor fails or has failed to meet its obligations under this Section.

36. Reserved

37. Reserved

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

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

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

- 39. Representations and Warranties.** Contractor represents and warrants: (a) Contractor is the owner or licensee of any Contract Activities that it licenses, sells, or develops and Contractor has the rights necessary to convey title, ownership rights, or licensed use; (b) all Contract Activities are delivered free from any security interest, lien, or encumbrance and will continue in that respect; (c) the Contract Activities will not infringe the patent, trademark, copyright, trade secret, or other proprietary rights of any third party; (d) Contractor must assign or otherwise transfer to the State or its designee any

manufacturer's warranty for the Contract Activities; (e) the Contract Activities are merchantable and fit for the specific purposes identified in the Contract; (f) the Contract signatory has the authority to enter into this Contract; (g) all information furnished by Contractor in connection with the Contract fairly and accurately represents Contractor's business, properties, finances, and operations as of the dates covered by the information, and Contractor will inform the State of any material adverse changes; (h) all information furnished and representations made in connection with the award of this Contract is true, accurate, and complete, and contains no false statements or omits any fact that would make the information misleading; and that (i) Contractor is neither currently engaged in nor will engage in the boycott of a person based in or doing business with a strategic partner as described in 22 USC 8601 to 8606. A breach of this Section is considered a material breach of this Contract, which entitles the State to terminate this Contract under Section 24, Termination for Cause.

- 40. Conflicts and Ethics.** Contractor will uphold high ethical standards and is prohibited from: (a) holding or acquiring an interest that would conflict with this Contract; (b) doing anything that creates an appearance of impropriety with respect to the award or performance of the Contract; (c) attempting to influence or appearing to influence any State employee by the direct or indirect offer of anything of value; or (d) paying or agreeing to pay any person, other than employees and consultants working for Contractor, any consideration contingent upon the award of the Contract. Contractor must immediately notify the State of any violation or potential violation of these standards. This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.
- 41. Compliance with Laws.** Contractor must comply with all federal, state and local laws, rules and regulations.
- 42. Prevailing Wage Act Statutory Provision.** Contractor must comply with prevailing wage requirements, to the extent applicable to this Contract. As required by MCL 408.1112, if the Michigan Prevailing Wage Act, MCL 408.1101 et seq. applies to this Contract, construction mechanics (as defined in MCL 408.1101 (b)) are intended beneficiaries of the contractual prevailing wage, fringe benefit, and nondiscrimination nonretaliation requirements of the Contract. Any construction mechanic aggrieved by the failure of a Contractor or subcontractor to pay prevailing wages or benefits as specified in this Contract, or by a violation of MCL 408.1107, in addition to any other remedies provided in Public Act 10 of 2023 or by law, may bring an action in a court of competent jurisdiction against the Contractor or subcontractor for damages or injunctive relief and may be awarded reinstatement or other appropriate relief, and all damages sustained, together with actual costs and attorney fees at trial and on appeal. If the Michigan Prevailing Wage Act, MCL 408.1101 et seq. applies to this Contract, the rates of wages and fringe benefits to be paid to each class of construction mechanic (as defined in MCL 408.1101 (b)) by Contractor and subcontractors must not be less than the wage and fringe benefit rates prevailing in the locality in which the work is performed.
- 43. Reserved**
- 44. Nondiscrimination.** Under the Elliott-Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, et seq., the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, et seq., and Executive Directive 2019-09, Contractor and its subcontractors agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex,

sexual orientation, gender identity or expression, height, weight, marital status, partisan considerations, any mental or physical disability, or genetic information that is unrelated to the person's ability to perform the duties of a particular job or position. Breach of this Section is a material breach of this Contract.

- 45. Unfair Labor Practice.** Under MCL 423.324, the State may void this Contract if the name of the Contractor, or the name of a subcontractor, manufacturer, or supplier of the Contractor, subsequently appears on the Unfair Labor Practice register compiled under MCL 423.322.
- 46. Governing Law.** This Contract is governed, construed, and enforced in accordance with Michigan law, excluding choice-of-law principles. Contractor waives any objections, such as lack of personal jurisdiction or *forum non conveniens*. Contractor must appoint an agent in Michigan to receive service of process.
- 47. Non-Exclusivity.** Nothing contained in this Contract is intended nor is to be construed as creating any requirements contract with Contractor, nor does it provide Contractor with a right of first refusal for any future work. This Contract does not restrict the State or its agencies from acquiring similar, equal, or like Contract Activities from other sources.
- 48. Force Majeure.** Neither party will be in breach of this Contract because of any failure arising from any disaster or acts of god that are beyond their control and without their fault or negligence. Each party will use commercially reasonable efforts to resume performance. Contractor will not be relieved of a breach or delay caused by its subcontractors. If immediate performance is necessary to ensure public health and safety, the State may immediately contract with a third party.
- 49. Dispute Resolution.** The parties will endeavor to resolve any Contract dispute in accordance with this provision. The dispute will be referred to the parties' respective Contract Administrators or Program Managers. Such referral must include a description of the issues and all supporting documentation. The parties must submit the dispute to a senior executive if unable to resolve the dispute within 15 business days. The parties will continue performing while a dispute is being resolved, unless the dispute precludes performance. A dispute involving payment does not preclude performance.
- Litigation to resolve the dispute will not be instituted until after the dispute has been elevated to the parties' senior executive and either concludes that resolution is unlikely or fails to respond within 15 business days. The parties are not prohibited from instituting formal proceedings: (a) to avoid the expiration of statute of limitations period; (b) to preserve a superior position with respect to creditors; or (c) where a party makes a determination that a temporary restraining order or other injunctive relief is the only adequate remedy. This Section does not limit the State's right to terminate the Contract.
- 50. Media Releases.** News releases (including promotional literature and commercial advertisements) pertaining to the Contract or project to which it relates must not be made without the prior written approval of the State, and then only in accordance with the explicit written instructions of the State.
- 51. Schedules.** All Schedules and Exhibits that are referenced herein and attached hereto are hereby incorporated by reference. The following Schedules are attached hereto and incorporated herein:

Document Title	Document Description
Schedule A – Statement of Work	Statement of work
Schedule B – Pricing	Pricing for goods and services sought by the State through this RFP

Schedule C- ArcGIS	Information regarding the reporting required in ArcGIS Online
Attachment 1-Cured-in-Place Pipe Liner for Culverts and Storm Sewers-20RC401-A320-02	MDOT Special Provision for Cured-in-Place Pipe Liner for Culverts and Storm Sewers
Attachment 2-MDOT-Region-Map	Map of MDOT Regions

- 52. Entire Agreement and Order of Precedence.** This Contract, which includes Statement of Work, and schedules and exhibits, is the entire agreement of the parties related to the Contract Activities. This Contract supersedes and replaces all previous understandings and agreements between the parties for the Contract Activities. If there is a conflict between documents, the order of precedence is: (a) first, this Contract, excluding its schedules, exhibits, and Statement of Work; (b) second, Statement of Work as of the Effective Date; and (c) third, schedules expressly incorporated into this Contract as of the Effective Date. NO TERMS ON CONTRACTOR'S INVOICES, ORDERING DOCUMENTS, WEBSITE, BROWSE-WRAP, SHRINK-WRAP, CLICK-WRAP, CLICK-THROUGH OR OTHER NON-NEGOTIATED TERMS AND CONDITIONS PROVIDED WITH ANY OF THE CONTRACT ACTIVITIES, OR DOCUMENTATION HEREUNDER, EVEN IF ATTACHED TO THE STATE'S DELIVERY OR PURCHASE ORDER, WILL CONSTITUTE A PART OR AMENDMENT OF THIS CONTRACT OR IS BINDING ON THE STATE OR ANY AUTHORIZED USER FOR ANY PURPOSE. ALL SUCH OTHER TERMS AND CONDITIONS HAVE NO FORCE AND EFFECT AND ARE DEEMED REJECTED BY THE STATE AND THE AUTHORIZED USER, EVEN IF ACCESS TO OR USE OF THE CONTRACT ACTIVITIES REQUIRES AFFIRMATIVE ACCEPTANCE OF SUCH TERMS AND CONDITIONS.
- 53. Severability.** If any part of this Contract is held invalid or unenforceable, by any court of competent jurisdiction, that part will be deemed deleted from this Contract and the severed part will be replaced by agreed upon language that achieves the same or similar objectives. The remaining Contract will continue in full force and effect.
- 54. Waiver.** Failure to enforce any provision of this Contract will not constitute a waiver.
- 55. Survival.** Any right, obligation or condition that, by its express terms or nature and context is intended to survive, will survive the termination or expiration of this Contract; such rights, obligations, or conditions include, but are not limited to, those related to transition responsibilities; indemnification; disclaimer of damages and limitations of liability; State Data; non-disclosure of Confidential Information; representations and warranties; insurance and bankruptcy.
- 56. Contract Modification.** This Contract may not be amended except by signed agreement between the parties (a "**Contract Change Notice**"). Notwithstanding the foregoing, no subsequent Statement of Work or Contract Change Notice executed after the Effective Date will be construed to amend this Contract unless it specifically states its intent to do so and cites the section or sections amended.
- 57. Accessibility Requirement.** All Contract Activities created, provided, or made available by Contractor under this Contract in a digital format, including but not limited to, websites, applications, software, mobile applications, text, images, sounds, videos, controls, animations, links, and documents (including files in the following formats: PDF, word processing, presentation, and spreadsheet) (hereinafter "**Digital Deliverables**"), must conform to the accessibility standards provided in the SOM Digital Standards, located at <https://www.michigan.gov/standards> (the "**Digital Accessibility Standards**"). Throughout the Term of the Contract, Contractor must: (a) ensure that no changes made by Contractor to any Digital Deliverables will have any adverse effect on conformance to the Digital

Accessibility Standards; and (b) comply with plans and timelines approved by the State to remediate issues and achieve conformance with the Digital Accessibility Standards in the event of any deficiencies, at its sole cost and expense.

SCHEDULE A - STATEMENT OF WORK

Contract No. 260000000622

Culvert Rehabilitation and Drainage Restoration, as Needed

BACKGROUND

Michigan Department of Transportation (MDOT) is responsible for and tasked with maintaining state trunklines, including the culverts and drainage systems along and within these trunklines. To meet their responsibility, MDOT is establishing a contract with a Prequalified Contractor to provide all necessary services to maintain culvert integrity and fluid flow.

This Contract will be a one-year contract with four (4) one-year options. Multiple contracts may be awarded.

SCOPE

This is an “**AS NEEDED**” Contract for culvert rehabilitation and drainage restoration. Services may be requested by any MDOT Agency for culverts/drains located anywhere within the State. The Contractor must provide all personnel; equipment; tools; supplies and materials; supervision; and other items and services, including traffic control equipment and devices, necessary to perform the services as described in the specifications herein.

General process to request and establish orders for services will be as follows:

- Agency determines culverts that require services and provides a list to Contractor with proposed fixes and any additional requirements depending on the location and condition.
- Contractor reviews the list and provides price quotes for each location.
 - Pricing must be per the given Schedule B line items and must not exceed the listed prices.
 - The Contractor must provide an itemized list of the cost of the repair.
 - The Contractor may offer alternate methods for rehab at no additional cost.
- Agency may accept, reject, or negotiate the pricing provided by Contractor.
- Upon acceptance of pricing, the Agency will create a Delivery Order (DO) to authorize services for each project.

1. Requirements

1.1. General Requirements

- A. Contractor must follow MDOT Special Provision, Attachment 1-Cured-in-Place Liner for Culverts and Storm Sewers-20RC401-A320-02.
- B. Contractor must follow all other applicable MDOT Special Provisions (see [MDOT - Special Provisions](#)), manufacturers’ recommendations, MDOT 2020 Standard Specifications for Construction (see [MDOT 2020 Standard Specifications for Construction \[WEB\]-linked](#)), or as directed by the Agency.

- C. Contractor must update inventory attribution using ArcGIS Online as described in Schedule C - ArcGIS.
- D. Contractor must be a MDOT prequalified Contractor in the following categories:
 - **K Sewers and Water Mains**
 - **N9-4A Sewer Cleanout**
 - **N9-4B Sewer Inspection**

1.2. Traffic Control

The Contractor is responsible for traffic control unless directed by the Agency. Traffic must be maintained in accordance with the [2020 Standard Specifications for Construction](#), the Michigan Manual of Uniform Traffic Control Devices (MMUTCD) (see [MDOT - Transportation Standards and Special Details](#)), the Work Zones Maintaining Traffic Typical (see [MDOT - Transportation Standards and Special Details](#)), and with Chapter 8 of the Work Zone Safety and Mobility Manual (see [Work Zone Safety and Mobility Manual](#)).

The Contractor must provide traffic control plans with detailed drawings that show how the traffic and work is being separated, road signs, warning devices, lane closures, etc. Traffic control plan(s) will be reviewed and approved by the Agency. A 24-hour emergency number for traffic control issues must be provided. All operations must be conducted in a manner that will not create a hazard and that will maintain safety for the crews and traffic. The Contractor must not operate equipment on the roadway or in a manner that requires unnecessary crossing of the roadway. All equipment not in use may be temporarily parked on limited access freeway right-of-way, but not parked within the median or closer than 30 feet from the traveled roadway. Equipment may not be temporarily parked on free access roadways except at those locations designated by the MDOT Engineer as defined in the current 2020 Standard Specifications for Construction.

1.3. Processes

Each of the below sections and processes are the sections and processes listed on Schedule B – Pricing. For each Section, Contractor must provide a detailed description of their process/procedure to complete rehab and/or repair work.

Section A: Cured-in-place Pipe (CIPP) Lining

REHABILITATION (LINING) – THE CIPP PROCESS

The CIPP Process has been used throughout the world since 1971 for the rehabilitation of over 62 million feet of Municipal piping ranging in size from 4” to 108” in diameter (and even greater). The process originated as a proprietary process and is now commercially available from a multitude of contractors / vendors. While the core materials are available through multiple sources, the experienced personnel are the hallmark to a final quality installation.

Our CIPP process utilizes a polyester felt tube layered on the outside with a polypropylene coating. The tube is custom manufactured by United Felts. The tube is manufactured and custom engineered within an ISO 9001:2015 certified facility to detailed site conditions incorporating field data to determine the appropriate minimum wall thickness.

Once delivered to our wet-out facility, the tube is vacuum impregnated with a polyester thermosetting resin throughout the entire installation length. Our resin is supplied by North American Composites. Once again, our products are tested and proven for reliable CIPP installations. Our CIPP component products

are the same as that provided by several other national CIPP firms. Our resin systems comply with the contract specifications as well as ASTM D-790, F1216. Upon completion of the resin impregnation, the then “wet-out” or impregnated tube is then transported to site in a climate controlled truck to protect the resin from curing prior to installation.

Installation of the CIPP tube can be facilitated by using water, steam, or UV. In a water install, the hydrostatic head (or column of water) created through a “down tube” (per the manufacturer’s recommendation). Similarly, in a steam install, the CIPP tube is inverted into the existing pipe using air to push the tube into the CIPP tube. Essentially, the tube is turned inside out so that the resin saturated felt is pressed firmly against the pipe wall resulting in the outer polyurethane coating now becoming the inside of the sewer being rehabilitated. While the newly installed CIPP is held tightly against the host pipe wall, the water used for the installation is circulated through a heat exchanger in order to trigger the catalyst within the resin (optimum temperature is attained by monitoring the temperature of the hot water circulated via heat detection wires placed at the upstream and downstream ends of the pipe. The heat from the water transforms the resin from a liquid into a structural pipe within a pipe.

During a UV install, the UV CIPP liner is pulled into place (typically with a winch). The UV liner is then filled with air to keep the liner against the host pipe and a UV-light train travels along the length of the UV liner. As the liner is exposed to the UV light, the resin in the UV liner reacts and hardens.

Once hardened, the ends of the newly formed pipe are removed and the laterals that were temporarily sealed off are reinstated from inside of the lined sewer. The result is a structurally sound, joint free, smooth pipe within a pipe, designed and proven to provide a minimum 50-year design life.

Section B: CIPP Lateral Renewal Systems

Corby Energy Services Utilizes the LMK Tee Liner for our Lateral Renewal Process:

The T-Liner is an engineered, full-circle structural main-to-lateral connection that also renews lateral pipes in one continuous length up to 200 feet without cold joints. Fully compliant with ASTM standards, this rehabilitation system can be designed and stamped by a licensed P.E. from the installation state for both the lateral and the main-to-lateral structural connection.

One-piece, full circle and homogenous main and lateral CIPP connection liner with a uniform wall thickness of absorbent textile material that also meets the requirements of ASTM D5813, (Sections 6 and 8), the standard specification for CIPP thermosetting resin sewer pipe.

- Compressible liner material manufactured on the mainsheet provides a smooth tapered transition to the host pipe at both the upstream and downstream ends.
- The resin system — corrosion-resistant polyester, vinylester, epoxy or silicate resin and catalyst — produces a CIPP that fully complies with ASTM physical and chemical requirements for a 50 plus year design life.
- The liner is impregnated with the resin system under controlled vacuum conditions and inverted through the lateral. Pipe cracks and voids are filled through resin migration, 18 inches of the mainline connection is structurally renewed, and the lateral liner can be inverted up to a maximum length of 200 feet.
- Curing is accomplished within two hours at ambient temperature or in as little as 30 minutes with steam.
- The lateral connection utilizes an engineered, molded one-piece, flexible long-term compression gasket sealing system.
- T-Liners may be installed in mainline pipe sizes from six inches to 24 inches in diameter. They can be manufactured in TEE or WYE designs.
- Each liner is permanently marked with a lateral identification label for future reference.

ASTM F1216 –Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube (design calculations)

•ASTM F2561 –Standard Practice for Rehabilitation of a Sewer Service Lateral and Its Connection to the Main Using a One-Piece Main and Lateral Cured-In-Place Liner

Process:

1. CCTV Inspection & Lateral Assessment

The mainline and connected lateral are inspected via CCTV to determine:

- Lateral diameter and length
- Connection configuration
- Location of defects, infiltration, or root intrusion

Measurements are taken to determine the required liner length up the lateral and coverage within the main.

2. Pipe Cleaning & Surface Preparation

- The mainline and lateral are thoroughly cleaned using jetting or mechanical methods to remove debris, roots, grease, and deposits.
- Proper pipe preparation is required to ensure full liner conformance and sealing at the connection.

3. Tee Liner® Impregnation & Assembly

- The Tee Liner® is a resin impregnated, one piece liner that includes:
 - o A full circle mainline section (renewing 360° of the host main)
 - o An integral lateral leg extending up into the service lateral
- The liner is constructed as a single, homogenous structural cylinder, not a patch or separate components.

4. Installation & Positioning

- The Tee Liner® is:
 - o Positioned at the main to lateral junction
 - o Pressed tightly against the host main and lateral pipe walls
- The system renews 18 inches and 360° of the mainline and extends up the lateral as a continuous lining (length varies by Tee Liner® type such as Original, Shorty™, or Stubby™).

5. Compression Gasket Sealing

- The Tee Liner® incorporates embedded compression gasket O rings at the connection interface.
- These O rings form a verifiable, non leaking mechanical seal between the liner and host pipe, compatible with all common pipe materials and existing CIPP liners.

6. Curing

- The liner is held under pressure while the resin cures.
- Once cured, the liner becomes a stand alone structural pipe designed to resist infiltration, root intrusion, and compressive hoop stress.

7. Bladder Removal & Final Configuration

- After curing, the installation bladder is removed.
- The result is a continuous, jointless CIPP system extending from the mainline into the lateral, eliminating defects at the most common point of failure in sewer systems.

8. Post Installation CCTV Verification

- A post installation CCTV inspection confirms:
 - o Proper liner placement
 - o 360° coverage in the main
 - o Full lateral extension
 - o Compression gasket seating
 - o Unobstructed flow

Section C: CIPP Point Repairs

Corby Energy Services Inc. uses Source One Environmental Pipe Patch system for our CIPP point repair Process.

Ranging from 1-1/2" to 72" pipe diameters, PipePatch challenges traditional excavation repair methods with its innovative and trenchless CIPP technology. The point repair process eliminates the need for digging by utilizing a process that creates a pipe within a pipe with minimal change to the original diameter. Structurally rehabilitating the sewer, PipePatch guarantees an additional 50-year service life.

Technical Data

- Resistance to 63+ chemicals and oils
- Non-flammable, non-hazardous, cures in the presence of water
- Structural properties exceed requirements of ASTM F 1216
- Average tensile strength: 24, 500 psi
- Average Flexural strength: 27,500 psi
- Average flexural modulus: 1, 345,000 psi

Environmentally Friendly

- Contains no VOCs or styrene
- Safe for storm and sanitary sewers
- PipePatch resin does not get hot
- Maximum temperature may reach 180°F

Process:

1. CCTV Inspection & Defect Location
 - The pipeline is inspected using CCTV equipment to identify the defect (crack, joint separation, infiltration, corrosion, or root intrusion).
 - The defect location is measured and marked to ensure accurate placement of the PipePatch liner.
2. Pipe Cleaning & Surface Preparation
 - The affected pipe section is cleaned and cleared of debris to ensure the liner bonds properly to the host pipe.
 - Preparation is verified by CCTV prior to installation.
3. System Setup & Dry Run
 - An inflatable packer is assembled and connected to an air supply and control regulator.
 - A dry run is performed to confirm the packer can be accurately placed at the repair location before resin is introduced.
4. Liner Wet Out
 - A fiberglass PipePatch liner is impregnated with S1E supplied resin on site.
 - The saturated liner is wrapped tightly around the packer and secured for installation.

5. Liner Installation & Positioning
 - The prepared packer and liner assembly is pushed or pulled into the pipe.
 - CCTV or measurement marks are used to position the liner directly over the defect.
6. Inflation & Curing
 - The packer is inflated to the manufacturer specified pressure, pressing the liner against the pipe wall.
 - The resin cures while the liner is held in place, forming a rigid, fully structural repair sleeve.
 - Cure time follows manufacturer guidance based on resin type and ambient conditions.
7. Packer Removal
 - After curing, the packer is deflated and removed from the pipe.
 - The PipePatch liner remains bonded to the host pipe, creating a permanent structural repair.
8. Post Installation CCTV Verification
 - A final CCTV inspection confirms:
 - o Proper liner placement
 - o Full cure
 - o Smooth transitions at liner ends
 - o No flow restriction or defects

Section D: Polyethylene (PE) Slip Lining

Brief Work Process:

1. Planning and Inspection
 - Review culvert condition via CCTV inspection, manual entry (if safe), or visual assessment to evaluate deterioration, obstructions, alignment, and hydraulic needs.
 - Select appropriate liner material, diameter (slightly smaller than host), length, and wall thickness.
 - Plan traffic control, and assess environmental factors (e.g., stream flow or wildlife).
2. Site Preparation and Dewatering
 - Establish safe work zones at inlet and/or outlet ends (often minimal excavation or use of existing access).
 - Divert or bypass water flow using dams, pumps, or cofferdams. Dewater the host culvert as much as possible for safe cleaning and insertion.
3. Cleaning and Clearing
 - Thoroughly clean the existing culvert using high-pressure jetting, vacuum trucks, or mechanical tools to remove debris, sediment, roots, scale, or obstructions.
 - Ensure a clear path for the liner to pass without snags.
4. Liner Preparation and Insertion
 - Join liner sections (often HDPE) above ground using fusion welding, couplers, or mechanical joints to create a continuous string.
 - Attach a pulling head or nose cone to the lead end.
 - Pull or push the liner into the host culvert using winches, excavators, or pushing machines. Spacers may be attached to center the liner and aid grout placement.
5. Filling the Annular Space

- Construct temporary bulkheads or end seals at the inlet and outlet (if needed) to contain the fill material. Install injection ports or tubes (typically at the crown or through the bulkhead) and vent ports for air escape.

Procedure for Using Fill Foam:

- Prepare the Fill Foam system (pre-expanded polyurethane-based foam or two-component expanding foam) per manufacturer specifications, ensuring proper mixing ratios, temperature control, and equipment calibration (e.g., specialized foam pumps or injection rigs).
- Inject the foam through ports starting from the lowest or farthest point and progressing toward the access end, monitoring pressure to avoid exceeding safe limits that could deform the liner.
- Pump in stages if necessary, allowing partial expansion and curing between lifts to control flotation forces on the liner (the liner may be filled with water during this step for added stability).
- Continue injection until the foam exits vent ports, indicating complete filling of the annular space. Plug ports sequentially as the foam advances.
- Allow the foam to fully expand and cure (typically fast-setting, often within minutes to hours depending on formulation). The lightweight foam (commonly 2–40+ pcf density) provides excellent void filling with low pumping pressure and good energy absorption.
- Perform quality checks (e.g., visual confirmation at vents or post-cure sounding) to verify full encapsulation without voids.

Procedure for Using Cementitious Grout:

- Pump structural grout (typically low-density cellular concrete or cementitious grout) into the space between the host culvert and new liner.
- Use grout ports or tubes to fill voids completely, providing stability, eliminating water infiltration, and bonding the system.
- Allow grout to cure per specifications.

6. Completion and Restoration

- Make end connections or install inlet/outlet treatments (e.g., headwalls, rip-rap, or beveled ends) for erosion control and proper flow.
- Perform post-installation CCTV inspection.
- Restore any disturbed areas, remove bypass systems, and return the site to normal conditions.

Section E: Pipe Bursting with High-Density Polyethylene (HDPE)

Pipe Bursting Work Process

Pipe Bursting is a trenchless method used to replace existing underground pipelines (typically sewer, water, or gas lines) by breaking the old pipe while simultaneously pulling in a new pipe of the same or larger diameter.

Brief Work Process:

1. Planning and Site Preparation
 - Review as-built drawings, conduct utility locates, and perform CCTV inspection of the existing pipe to assess condition, identify any obstructions, and determine feasibility of pipe bursting.
 - Determine entry and exit pits locations, required equipment, and new pipe specifications.
2. Excavation of Entry and Exit Pits
 - Excavate a small launching pit (entry) at the upstream end and a receiving pit (exit) at the downstream end of the pipe section to be replaced.

- Pits are typically much smaller than traditional open-cut trenches.
3. Insertion of Bursting Head and New Pipe
 - Attach a bursting head (cone-shaped tool with cutters or rollers) to the leading end of the new replacement pipe.
 - Connect the bursting head to a pulling cable, rod, or hydraulic system that runs through the existing pipe.
 4. Pipe Bursting Operation
 - The bursting head is pulled through the existing pipe using hydraulic jacks, winches, or pneumatic/ static bursting equipment.
 - As the head advances, it fractures and displaces the old pipe outward into the surrounding soil.
 - The new pipe is simultaneously pulled into place directly behind the bursting head.
 5. Completion and Connections
 - Once the bursting head reaches the receiving pit, the new pipe is fully installed.
 - Remove the bursting equipment and make final connections to existing manholes, service laterals, or structures.
 - Perform post-installation CCTV inspection if needed.
 6. Site Restoration
 - Backfill and compact the entry and exit pits.
 - Restore surface features (pavement, landscaping, etc.) to original condition.

Typical Equipment: Bursting unit (static or pneumatic), bursting heads, new HDPE or PVC pipe, winch/cable system, and CCTV camera.

Section F & G: Manhole Connections and Manhole Rehabilitation

Corby Energy Services Inc utilizes two types of manhole rehabilitation products. The first product is ALT CIPM Lining systems. The second is OBIC Polyurea.

Alternative Lining Technologies are a Cured in place Liner that is made up of a PVC coated fleece felt with fused seams, multi layers of woven fiberglass, saturated and bonded together with a 100% solids resin. This liner is inserted into the manhole, inflated with air pressure and injected with steam until the two-part resin is cured and hardened. The final product is impervious to hydrogen sulfide gas and will enhance the structural strength of the existing deteriorated manhole structure.

OBIC 5000 is a 100% solids lining that reinstates structural integrity, provides infiltration control, corrosion resistance and asset life extension of concrete, steel, masonry and other substrates.

With its high abrasion and chemical resistance, adhesion and corrosion protection properties, it is ideally suited for the rehabilitation, renewal or proactive protection of wastewater, stormwater and industrial process water system structures. The OBIC System adds strength by way of the multilayer system. Most cementitious systems base strength on ASTM compression testing. The MLSSP Liner System is from the elastomeric family and will not break under a compression test, ASTM does not evaluate its strength in that manner.

Section H: Cleaning and Closed Circuit Television (CCTV) Pipe Inspection

Corby Energy primarily uses Vactor /Jetter combination trucks equipped with a variety of high pressure cleaning nozzles and heads to remove sediment and obstructions in the pipe. In pipes that have a large amount of debris the operator will use a “Step Cleaning” process where the operator extends the jetting nozzle up to 1/3 of the pipe and then pulls material back to the pipe opening and then repeats the process at 2/3rd the distance and at the full pipe distance. During the cleaning process a remote CCTV robot is driven up the pipe to monitor the cleaning process when possible. After the pipe has been cleaned the CCTV camera is driven down the pipe to perform a pipeline inspection which will mark any defects or failures throughout the pipe. Our CCTV operator use either an Aries or Ibak camera system. All Corby Energy CCTV operators are NASSCO PACP certified and have a minimum of 4 years of experience in sewer and pipe cleaning and inspection.

Section I: Bypass for Culverts and Associated Items

A temporary bypass system for culvert construction temporarily diverts water around the work area so construction can occur in dry conditions. The process involves assessing site flow and designing a suitable system (pump-around, diversion, or pump and haul), installing upstream barriers to redirect water, and conveying flow safely past the site to a controlled downstream discharge. The work zone is then isolated and dewatered, allowing culvert repairs to proceed. Throughout construction, the system is monitored to ensure performance and environmental compliance. Once complete, the bypass is removed and the site is restored.

Section J: Pipe Fusing/Joining

Generally speaking, HDPE pipe is butt-fused by applying heat to prepared pipe ends and then pushing the pipe ends together with a pre-determined force to make a permanent butt fusion joint. It is a very simple process utilizing a properly sized butt fusion machine for the pipe size to be joined. The pipe is installed and clamped in the butt fusion machine with pipe supports on both ends of the machine to support the pipes on the machine center line. The pipe ends are then faced (machined) to mechanical stops to ensure clean, parallel pipe ends for the heating process. The pipe ends are then aligned using the clamps on the fusion machine. A temperature controlled heater is installed in the machine and the pipe ends are heated according to the butt fusion standard ASTM International F2620. Once the heating criteria is met, the heater is removed and the pipe ends are brought together at the pre-determined force. This force is held on the joint for the time required by the standard. At this point, the pipe can be removed from the machine and visually inspected before pulling down the pipeline.

Additionally, within recent years, structural PE pipes have entered the marketplace. These PE pipes are joined by wither screwing, snapping, or homing a bell and spigot.

1.4. Required Functionality Relating to Data Retention, Disposal, and Retrieval

The State has legal obligations to retain, dispose, and retrieve State Data along with obligations to manage and secure State Data. To meet these obligations, the Contractor must allow the State to:

- A. Retain all data for the entire length of the Contract.
- B. Delete its data or request the deletion of its data, even data that may be stored offline or in backups.
- C. Transfer its data back to the State.
- D. Transfer its data to the Archives of Michigan as may be required by a retention and disposal schedule.
- E. Retrieve data, even data that may be stored offline or in backups.

Except as otherwise stated in the Contract, Contractor will not dispose of, delete, or destroy State Data without the prior written approval of the State.

The Contractor retains data from CCTV sewer inspections primarily using Pioneer, however, internal servers may also be used. Pioneer is a cloud-based program developed by SewerAI which assists in managing sewer inspection data. Pioneer allows users to save the data to SewerAI’s servers as well as export that data via email or cloud-based file sharing software. The data can also be downloaded locally (e.g. to a hard-drive, USB flash drive, or other formats) and sent. As there is no storage limit to Pioneer, data will be stored using Pioneer unless the state requires the data to be deleted.

2. Service Requirements

2.1. Timeframes

Timeframes will be established for each project request and will be agreed to by both the Contractor and Agency.

2.2. Work Hours

The Contractor must provide Contract Activities during the State’s normal working hours Monday – Friday, 7:00 a.m. to 6:00 p.m. Eastern Time excluding State holidays, unless instructed otherwise by MDOT Program Manager or designee. Night and weekend hours may be possible depending on the requirements of the project.

2.3. Installation

Installation timing will be determined and agreed upon by the Contractor and Agency.

3. Acceptance

MDOT will determine acceptance of Contract Activities by visual inspections, review of ArcGIS information, and ensuring conformance to the Contract.

4. Staffing

4.1. Key Personnel

The Contractor must appoint at least two individuals – a Contract Representative and a Contractor Program Manager – who will be specifically assigned to State of Michigan accounts, who will respond to State inquiries regarding the Contract Activities, and who will answer questions related to ordering and delivery, etc. the “Key Personnel”). Key Personnel must be available for calls during the hours of 8:00 a.m. to 5:00 p.m. Eastern Time.

Bidder must identify its Contractor Representative and Contractor Program Manager.

The Contractor must notify the Contract Administrator at least 14 business days before removing or assigning a new Contract Representative or Contractor Program Manager.

Contractor Representative Contact Information:

Name	Troy Freed
Title	Director of Trenchless Technologies
Mobile Phone	989-213-4408
Email Address	tfreed@corbyenergy.com

Contractor Program Manager Contact Information:

Name	David L. Carpenter, Jr., PMP
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Title	Vice President
Mobile Phone	813-410-4360
Email Address	dcarpenter@corbyenergy.com

4.2. Project Prevailing Wage Requirements

The Contractor (and its Subcontractors) must pay all mechanics and laborers employed directly on the site of the work, unconditionally and at least once a week, and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment, computed at wage rates not less than those stated in the advertised specifications as prevailing wages based on locality, regardless of any contractual relationship which may be alleged to exist between the Contractor or subcontractor and the laborers and mechanics.

Contractor must post the scale of wages to be paid in a prominent and easily accessible place at the site of the work. See **attachments** for scale of wages. The attached schedules, along with Prevailing Wage Rates for all counties, may also be found at [LEO - Prevailing Wages By County](#).

Certified payroll must be submitted through the MDOT labor compliance program tracker (LCPTTracker) website [LCPTTracker](#). The Contractor must specify a Certified Payroll Approver who will be responsible for entering certified payroll in LCPTTracker.

Certified Payroll Approver Contact Information

Name	Allison Domen
Email Address	adomen@corbyenergy.com
Phone Number	734-904-9100

4.3. Disclosure of Subcontractors

The follow subcontractors may be utilized in the performance of this Contract. However, other subcontractors may be required depending on the specifics of the project and location. MDOT must be notified in writing when subcontractors who are not listed below are being utilized and provided with a copy of the subcontractor(s) State Project Registration Confirmation letter (provided by LEO) before the subcontractor may start working.

Subcontractors for CIPP Lining/Spot Repair (CIPP)/Lateral Renewal:

- Waste Recovery Systems (WRS)
4750 Clyde Park Ave. SW
Wyoming, MI 49509
rick@industrialwasterecovery.com

Subcontractors for CCTV:

- City Sewer (CS)
126 Mapleridge
Carrollton, MI 48724
satkowiak@citysewercleaner.com
989-482-3405

Subcontractor for Manhole Rehabilitation:

- Advanced Rehabilitation Technology (ART)
1116 County Road 17
Bryan, OH 43506
Alex Lantz
alex@artcoatingtech.com

Subcontractor for Miscellaneous Work (bypass, traffic control, engineering services):

- Spicer Engineering
230 S. Washington
Saginaw, MI 48607
Darrick Huff
darrickh@spicergroup.com
- Metro Consulting Associates (MCA)
45345 Five Mile Rd
Plymouth, MI 48170
Damon Garrett
dgarrett@metroca.net
- Give Em A Brake Safety (GEB)
2610 Sanford Ave SW
Grandville, MI 49418
- Major Contracting Group
12222 Greenfield Rd.
Detroit, MI 48227
Mike Okon
mokon@majorcontracting.com
- B&Z Company, Inc. (B&Z)
1001 Clark Ave
Benton Harbor, MI 49022
Charlie Binger
charlie@bandzcompany.com
- Compton, Inc.
PO Box 487
South Haven, MI 4909-0487
Marc Compton
marc@comptonlandimprovement.com
- American Excavating (AE)
3389 Hack Rd
Saginaw, MI 48601
Zac Birnbaum
zac@americanexc.com

- Metro Asphalt & Concrete LLC (MAC)
2021 Schaefer Hwy
Detroit, MI 48217
Dave Carpenter
dcarpenter@corbyenergy.com
- Metro Engineering Services (MES)
22300 Haggerty Rd
Northville, MI 48167
Marte Neumeyer
mneumeyer@metroes.net
- Mersino
900 N Squirrel Rd Suite 210
Auburn Hills, MI 48326
Dominic Mersino
Dominic.mersino@mersino.com

5. Project Management

5.1. Project Control

The Contractor will carry out this project under the direction and control of the Agency.

5.2. Project Plan

For each project, the Contractor must provide a project plan. Project plan should identify items such as the required contact personnel; the date the project plan must be submitted to the Agency; project management process; project breakdown identifying sub-projects, tasks, timeframes, and resources required; expected frequency and mechanisms for updates/progress reviews; process for addressing issues/changes; and individuals responsible for receiving/reacting to the requested information.

5.3. Meetings

The Contractor must attend meetings as required.

5.4. Reporting

The Contractor must submit to the Program Manager and the office requesting the work, a report detailing the type of fix, liner foot installed, type of traffic control used, unique ID, or as directed by the Program Manager. The Contractor must update inventory attribution using ArcGIS Online as described in Schedule C - ArcGIS.

6. Pricing

6.1. Price Term

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

6.2. Price Changes

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

manufacturer or supplier letters noting the increase in pricing; and any other data the State deems relevant.

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

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

7. Ordering

7.1. Authorizing Document

The appropriate authorizing document for the Contract will be Delivery Order. Contractor is not to initiate work without receipt of a Delivery Order from MDOT.

8. Invoice and Payment

8.1. Invoice Requirements

All invoices submitted via email to the State must include: (a) date; (b) delivery order; (c) quantity; (d) description of the Contract Activities; (e) unit price; (f) vendor-generated invoice number and (h) total price. Overtime, holiday pay, and travel expenses will not be paid.

8.2. Payment Methods

As required by MCL 18.1283, the State will only disburse payments under this Contract through Electronic Funds Transfer (EFT).

The Contractor is responsible for ensuring current banking information is entered in the State vendor website: www.michigan.gov/SIGMAVSS.

8.3. Quick Payment Terms

One (1) percent discount off invoice if paid within 10 days after receipt of invoice.

9. Liquidated Damages

Late or improper completion of the Contract Activities will cause loss and damage to the State and it would be impracticable and extremely difficult to fix the actual damage sustained by the State. Therefore, if there is late or improper completion of the Contract Activities the State is entitled to collect liquidated damages in the amount of \$2,500 and an additional \$100 per day for each day Contractor fails to remedy the late or improper completion of the Work.

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

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

10. Bonds

The Contractor must furnish performance and lien bonds each for not less than 100% of the original contract amount. The bonds must be on forms provided by MDOT. The bonds must meet the requirements of Michigan law and MDOT and include other items such as the Powers of Attorney and Endorsement as specified by MDOT. The same surety responsible for writing the performance bond must write the lien bond. It is the Contractor's responsibility to ensure that the lien bond conforms with the terms of MCL 570.101 et seq.

11. ADA Compliance

The State is required to comply with the Americans with Disabilities Act of 1990 (ADA), including its accessibility standard for websites, applications, content and documents. All Contract Activities created, provided, or made available by Contractor under this Contract in a digital format, including but not limited to, websites, applications, software, mobile applications, text, images, sounds, videos, controls, animations, links, and documents (including files in the following formats: PDF, word processing, presentation, and spreadsheet) must comply with the accessibility standards provided in the Digital Accessibility Standards, located at <https://www.michigan.gov/standards>.

Corby Energy Acknowledges the New ADA guidelines for accessibility standards for websites, applications, content and documents. PDF Documents, Word documents and Excel files submitted to the state meet the new standard. Video file submittals have audio annotations available when requested.

Schedule B - Pricing Bay Region

Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 45.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 50.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 130.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 135.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 140.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 145.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 210.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 210.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 255.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 255.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 360.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 415.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 650.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 1.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 4.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 10.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 11.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 14.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 18.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 25.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 10.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 10.00
Timber Matting for Setup	1	Square Yard	\$ 235.00
Internal Reconnection of service connection by robotic cutter	1	Each	\$ 350.00
Sealing of service connection with chemical grouting after internal reconnection (minimum quantity of 15 to be completed per mobilization)	1	Each	\$ 500.00
Concrete Cloth	1	Square Foot	\$ 25.00

Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)	Quantity	Unit	Unit Price
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 5' from main <15" diameter - No cleanout required	1	Each	\$ 2,000.00
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 20' from main <15" diameter - Cleanout required	1	Each	\$ 2,600.00
4-inch to 6-inch Installation and cure of structural lateral liner from main beyond 20' from main <15" diameter - Cleanout Required	1	Linear Foot	\$ 35.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 35.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 750.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 1,000.00

Section C: CIPP Point Repairs (Prices based on 4' minimum length)	Quantity	Unit	Unit Price
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6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 400.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 450.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 475.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 500.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 525.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 750.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 750.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,000.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,000.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,250.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,250.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,500.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,750.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 2,000.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 2,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 10.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 20.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 25.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 35.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 40.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00

Section D: Polyethylene (PE) Slip Lining - (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 20.00
6-inch diameter	1	Linear Foot	\$ 30.00
8-inch diameter	1	Linear Foot	\$ 40.00
10-inch diameter	1	Linear Foot	\$ 50.00
12-inch diameter	1	Linear Foot	\$ 110.00
18-inch diameter	1	Linear Foot	\$ 125.00
24-inch diameter	1	Linear Foot	\$ 200.00
30-inch diameter	1	Linear Foot	\$ 250.00
36-inch diameter	1	Linear Foot	\$ 350.00
42-inch diameter	1	Linear Foot	\$ 425.00
48-inch diameter	1	Linear Foot	\$ 475.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 340.00
Bulkheads	1	Each	\$ 500.00
Slip Lining Setup	1	Each	\$ 10,000.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
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6-inch diameter	1	Linear Foot	\$ 45.00
8-inch diameter	1	Linear Foot	\$ 55.00
10-inch diameter	1	Linear Foot	\$ 65.00
12-inch diameter	1	Linear Foot	\$ 100.00
14-inch diameter	1	Linear Foot	\$ 115.00
16-inch diameter	1	Linear Foot	\$ 125.00
18-inch diameter	1	Linear Foot	\$ 135.00
20-inch diameter	1	Linear Foot	\$ 175.00
24-inch diameter	1	Linear Foot	\$ 250.00
30-inch diameter	1	Linear Foot	\$ 325.00
36-inch diameter	1	Linear Foot	\$ 375.00
42-inch diameter	1	Linear Foot	\$ 525.00
48-inch diameter	1	Linear Foot	\$ 625.00
54-inch diameter	1	Linear Foot	\$ 750.00
Setup fee per Pipe Bursting segment	1	Each	\$ 10,000.00

Note: Pipe Fusing/Joining in Section J

Section F: Manhole Connections	Quantity	Unit	Unit Price
6-inch diameter	1	Each	\$ 350.00
8-inch diameter	1	Each	\$ 375.00
10-inch diameter	1	Each	\$ 400.00
12-inch diameter	1	Each	\$ 450.00
14-inch diameter	1	Each	\$ 475.00
16-inch diameter	1	Each	\$ 500.00
18-inch diameter	1	Each	\$ 550.00
20-inch diameter	1	Each	\$ 600.00

Section G: Manhole Rehabilitation	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 2,000.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 60.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 60.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 60.00

Section H: Cleaning and Closed Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 45.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
Re-setup for clean & CCTV Inspection due to Point Repairs	1	Each	\$ 425.00
Root Removal	1	Linear Foot	\$ 15.00
Grease Removal	1	Linear Foot	\$ 15.00
Heavy Cleaning (more than three passes)	1	Hour	\$ 495.00

Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,000.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00
Culvert End Cleanout	1	Each	\$ 2,500.00

Section I: Bypass for Culverts and Associated Items	Quantity	Unit	Unit Price
Set Up 4-inch diameter Pump (Per Pump)	1	Each	\$ 750.00
Set Up 6-inch diameter Pump (Per Pump)	1	Each	\$ 1,500.00
Set Up 8-inch diameter Pump (Per Pump)	1	Each	\$ 2,250.00
Set Up 12-inch diameter Pump (Per Pump)	1	Each	\$ 5,000.00
Set Up 4-inch diameter Piping	1	Linear Foot	\$ 50.00
Set Up 6-inch diameter Piping	1	Linear Foot	\$ 75.00
Set Up 8-inch diameter Piping	1	Linear Foot	\$ 100.00
Set Up 12-inch diameter Piping	1	Linear Foot	\$ 150.00
Set Up 18-inch diameter Piping	1	Linear Foot	\$ 200.00
Operate 4-inch diameter Pumping System	1	Day	\$ 1,500.00
Operate 6-inch diameter Pumping System	1	Day	\$ 1,750.00
Operate 8-inch diameter Pumping System	1	Day	\$ 2,500.00
Operate 12-inch diameter Pumping System	1	Day	\$ 3,000.00
Bypass - Driveway Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,500.00
Bypass - Street Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,500.00
Bypass - Street Trenching for 8-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 100.00
Bypass - Street Trenching for 12-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 150.00
Bypass - Street Trenching for 18-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 175.00
Bypass Plan (3rd Party Certified)	1	Each	\$ 3,500.00

Section J: Pipe Fusing/Joining	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 750.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 30.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 50.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 110.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 135.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 160.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 185.00

Section K: Additional Items (As needed per project)	Quantity	Unit	Unit Price
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 20,000.00
Erosion Control	1	Linear Foot	\$ 20.00
Flex-A-Mat	1	Square Foot	\$ 27.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 17.00
Temporary Steel Sheeting	1	Square Foot	\$ 75.00
Turbidity Curtain	1	Linear Foot	\$ 75.00
Inaccessible Outlet/Inlet Locations	1	Each	\$ 5,000.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 25.00
4 to 6 feet deep	1	Cubic Foot	\$ 30.00
6 to 10 feet deep	1	Cubic Foot	\$ 35.00
c) Trench Shoring			

4 to 6 feet deep	1	Trench/week	\$ 750.00
6 to 10 feet deep	1	Trench/week	\$ 1,000.00
d) Surface Restoration			
Sod	1	Square Foot	\$ 10.00
Seed & Mulch	1	Square Foot	\$ 2.00
Straw Matting	1	Square Foot	\$ 1.00
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 40.00
10-inch concrete	1	Square Foot	\$ 45.00
12-inch concrete	1	Square Foot	\$ 50.00
2-inch asphalt	1	Square Foot	\$ 20.00
3-inch asphalt	1	Square Foot	\$ 25.00
4-inch asphalt	1	Square Foot	\$ 40.00
6-inch asphalt	1	Square Foot	\$ 45.00
8-inch asphalt	1	Square Foot	\$ 50.00
10-inch asphalt	1	Square Foot	\$ 55.00
12-inch asphalt	1	Square Foot	\$ 60.00
Saw Cut	1	Linear Foot	\$ 9.00
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 22.00
Ditch Grading	1	Linear Foot	\$ 50.00
HMA Patching	1	Ton	\$ 585.00
Guardrail Remove and Replace	1	Linear Foot	\$ 55.00
Topsoil	1	Cubic Yard	\$ 85.00
Concrete Spillway	1	Linear Foot	\$ 200.00
Geo-Web Slope Restoration	1	Square Yard	\$ 50.00
Watering Vegetation	1	Hour	\$ 225.00
Geo-Fabric	1	Square Yard	\$ 8.00
Concrete Shoulder Gutter	1	Each	\$ 2,000.00
Detectable Warning Surface ADA Tile	1	Square Foot	\$ 30.00
Slope Reinforcement Matting (SRM)	1	Square Foot	\$ 27.00
Slope Paving	1	Square Yard	\$ 250.00
Slope Paving Header	1	Foot	\$ 330.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 75.00
Rip Rap	1	Ton	\$ 200.00
Sand	1	Ton	\$ 60.00
Gravel	1	Ton	\$ 45.00
21AA	1	Ton	\$ 65.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 340.00
Embankment/Class II Fill	1	Cubic Yard	\$ 75.00
Cement Treated Aggregate	1	Ton	\$ 185.00
Dynamic Cone Penetrometer Testing	1	Each	\$ 600.00
Concrete or Asphalt Testing	1	Each	\$ 3,500.00
Aggregate Road Hard Surface	1	Square Yard	\$ 75.00
Concrete grout filled canvas bags	1	Each	\$ 500.00

f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 50.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,450.00
Arrow Board	1	Each Day	\$ 75.00
Traffic Lane Shift	1	Each	\$ 3,500.00
Traffic Control Plan (certified)	1	Each	\$ 1,500.00
Traffic Detour	1	Each	\$ 20,000.00
Message Boards	1	Each Week	\$ 2,900.00
Temporary Traffic Signals delivered/set-up	1	Each	\$ 7,000.00
Temporary Traffic Signals Operational	1	Each Week	\$ 3,500.00
Night Work Lighting	1	Each Day	\$ 1,500.00
g) Miscellaneous			
Tree Removal, 6" to 18" Diameter, with stump removal	1	Each	\$ 1,600.00
Tree Removal, 19" to 36" Diameter, with stump removal	1	Each	\$ 3,400.00
Tree Removal, 37"+ Diameter, with stump removal	1	Each	\$ 4,200.00
Tree Removal, 6" to 18" Diameter, without stump removal	1	Each	\$ 1,200.00
Tree Removal, 19" to 36" Diameter, without stump removal	1	Each	\$ 3,000.00
Tree Removal, 37"+ Diameter, without stump removal	1	Each	\$ 4,000.00
Stump Removal	1	Each	\$ 325.00
Permit Fees	1	Each	\$ 500.00
Water Charges	1	Each	\$ 2,250.00
Disposal Fees	1	Each	\$ 2,250.00
Concrete Barrier Temporary	1	Linear Foot	\$ 200.00
Formed Concrete	1	Cubic Yard	\$ 2,500.00
Slope Paving	1	Square Yard	\$ 250.00
Clearing and grubbing	1	Square Yard	\$ 10.00
Curb and Gutter	1	Linear Foot	\$ 85.00
Barrier Wall Repair (5' minimum per location)	1	Linear Foot	\$ 1,590.00
Coring and Raising Frame and Cover	1	Each	\$ 4,200.00
Jet Filter	1	Each	\$ 1,300.00
Misc. Electric Materials	1	Lump Sum	\$ 2,500.00
Cold Weather Protection	1	Each	\$ 4,000.00
Galvanic Anode Protection	1	Each	\$ 75.00
Exploratory Excavation	1	Hour	\$ 1,300.00
Street Sweeping	1	Each	\$ 1,950.00

Note: Additional Items may apply to each section of the Contract

Section L: Professional Services, Civil Engineering, and Land Surveying	Quantity	Unit	Unit Price
Firm Principal	1	Hour	\$ 275.00
Senior Project Manager	1	Hour	\$ 225.00
Project Manager	1	Hour	\$ 200.00
Coordinator	1	Hour	\$ 150.00
Project surveyor	1	Hour	\$ 145.00
Project engineer	1	Hour	\$ 175.00

Engineering Technician	1	Hour	\$ 125.00
Two person field survey crew	1	Hour	\$ 250.00
One person field survey crew	1	Hour	\$ 150.00
Administrative services	1	Hour	\$ 100.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 1,900.00
27-inch diameter	1	Each	\$ 2,200.00
30-inch diameter	1	Each	\$ 3,700.00
33-inch diameter	1	Each	\$ 3,700.00
36-inch diameter	1	Each	\$ 4,000.00
42-inch diameter	1	Each	\$ 4,200.00
48-inch diameter	1	Each	\$ 4,300.00
54-inch diameter	1	Each	\$ 4,950.00
60-inch diameter	1	Each	\$ 5,500.00
66-inch diameter	1	Each	\$ 7,000.00
72-inch diameter	1	Each	\$ 8,250.00
78-inch diameter	1	Each	\$ 9,000.00
84-inch diameter	1	Each	\$ 9,500.00
96-inch diameter	1	Each	\$ 11,000.00
108-inch diameter	1	Each	\$ 11,750.00
120-inch diameter	1	Each	\$ 12,225.00
132-inch diameter	1	Each	\$ 12,750.00

144-inch diameter	1	Each	\$ 13,500.00
Joint Contraction	1	Linear Foot	\$ 25.00

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 15.00
10-inch diameter	1	Square Foot	\$ 20.00
12-inch diameter	1	Square Foot	\$ 50.00
15-inch diameter	1	Square Foot	\$ 60.00
18-inch diameter	1	Square Foot	\$ 70.00
24-inch diameter	1	Square Foot	\$ 72.00
30-inch diameter	1	Square Foot	\$ 73.00
36-inch diameter	1	Square Foot	\$ 74.00
42-inch diameter	1	Square Foot	\$ 75.00
48-inch diameter	1	Square Foot	\$ 80.00
54-inch diameter	1	Square Foot	\$ 90.00
60-inch diameter	1	Square Foot	\$ 100.00
66-inch diameter	1	Square Foot	\$ 125.00
72-inch diameter	1	Square Foot	\$ 130.00
78-inch diameter	1	Square Foot	\$ 140.00
84-inch diameter	1	Square Foot	\$ 155.00

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 4,500.00
36-inch diameter	1	Each	\$ 6,250.00
48-inch diameter	1	Each	\$ 10,000.00
60-inch diameter	1	Each	\$ 13,000.00
72-inch diameter	1	Each	\$ 15,500.00
84-inch diameter	1	Each	\$ 17,500.00
Adjust Structure	1	Each	\$ 3,000.00
Frame and Cover Replace	1	Each	\$ 1,250.00
Structure Reconstruct	1	Vertical Foot	\$ 925.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 600.00
Cleaning of Structures	1	Hourly	\$ 425.00
Drainage Structure Tap (up to 24")	1	Each	\$ 2,500.00
Clean and Seal Joints of Structures/box and wall ends	1	Linear Foot	\$ 100.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet (concrete)	1	Each	\$ 3,000.00
21-inch to 30-inch outlet (concrete)	1	Each	\$ 5,500.00
33-inch to 48-inch outlet (concrete)	1	Each	\$ 9,500.00
54-inch to 66-inch outlet (concrete)	1	Each	\$ 14,500.00
12-inch to 18-inch outlet (steel)	1	Each	\$ 2,500.00
21-inch to 30-inch outlet (steel)	1	Each	\$ 4,000.00
33-inch to 48-inch outlet (steel)	1	Each	\$ 6,500.00
54-inch to 66-inch outlet (steel)	1	Each	\$ 8,000.00

Section Q: End wall Remove and Replace	Quantity	Unit	Unit Price
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12-inch to 18-inch outlet	1	Each	\$ 5,500.00
21-inch to 30-inch outlet	1	Each	\$ 8,500.00
33-inch to 48-inch outlet	1	Each	\$ 10,500.00
54-inch to 66-inch outlet	1	Each	\$ 15,500.00

Section R: Labor/Equipment	Quantity	Unit	Unit Price
Supervisor	1	Hour	\$ 150.00
Foreman	1	Hour	\$ 145.00
Operator	1	Hour	\$ 125.00
Laborer	1	Hour	\$ 95.00
Finisher	1	Hour	\$ 100.00
Truck Driver	1	Hour	\$ 95.00
Excavator M318 (equiv.)	1	Hour	\$ 243.00
Excavator 325 (equiv.)	1	Hour	\$ 260.00
Excavator 315 (equiv.)	1	Hour	\$ 162.00
Excavator 308 (equiv.)	1	Hour	\$ 145.00
Excavator 305 (equiv.)	1	Hour	\$ 140.00
Loader 936 (equiv.)	1	Hour	\$ 150.00
Backhoe	1	Hour	\$ 80.00
Skid Steer	1	Hour	\$ 75.00
Dump Truck 5 yard (equiv.)	1	Hour	\$ 90.00
Quad Axle semi-dump	1	Hour	\$ 100.00
Gravel Train	1	Hour	\$ 115.00
Lowboy Trailer	1	Hour	\$ 115.00
Foreman Pick-up	1	Hour	\$ 30.00
Jobsite Pick-up	1	Hour	\$ 20.00
Utility Truck w/tools	1	Hour	\$ 80.00
Flatbed Truck	1	Hour	\$ 53.00
Dozer	1	Hour	\$ 225.00
Mini Excavator	1	Hour	\$ 140.00
Hydro-Excavator	1	Hour	\$ 425.00
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 325.00
185 CFM compressor	1	Day	\$ 325.00
Light Tower	1	Day	\$ 300.00
Concrete Saw	1	Day	\$ 300.00
Pipe Saw	1	Day	\$ 70.00

Place Compactor	1	Day	\$ 113.00
Misc. tools (jackhammers/spades/drills)	1	Day	\$ 120.00
Steel plates	1	Day	\$ 200.00
Traffic Barrell	1	Day	\$ 10.00

Section T: Glare Screen Repair	Quantity	Unit	Unit Price
1' to 5'	1	Linear Foot	\$ 2,000.00
6' to 10'	1	Linear Foot	\$ 1,500.00
11' to 15'	1	Linear Foot	\$ 1,000.00
16' to 20'	1	Linear Foot	\$ 750.00

Section U: Auger Bore Installation of Culvert/Drainage (80 foot minimum)	Quantity	Unit	Unit Price
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 300.00
18"	1	Linear Foot	\$ 350.00
21"	1	Linear Foot	\$ 375.00
24"	1	Linear Foot	\$ 500.00
30"	1	Linear Foot	\$ 600.00
36"	1	Linear Foot	\$ 720.00
42"	1	Linear Foot	\$ 840.00
48"	1	Linear Foot	\$ 960.00
54"	1	Linear Foot	\$ 1,080.00
60"	1	Linear Foot	\$ 1,200.00
66"	1	Linear Foot	\$ 1,320.00
72"	1	Linear Foot	\$ 1,440.00

Section V: Open Cut Repair of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 195.00
10"	1	Linear Foot	\$ 225.00
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 275.00
18"	1	Linear Foot	\$ 300.00
21"	1	Linear Foot	\$ 400.00
24"	1	Linear Foot	\$ 500.00
30"	1	Linear Foot	\$ 600.00
36"	1	Linear Foot	\$ 700.00
42"	1	Linear Foot	\$ 800.00
48"	1	Linear Foot	\$ 1,000.00
54"	1	Linear Foot	\$ 1,750.00
60"	1	Linear Foot	\$ 2,500.00
66"	1	Linear Foot	\$ 2,750.00
72"	1	Linear Foot	\$ 3,000.00

Section W: Removal of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 135.00
10"	1	Linear Foot	\$ 165.00
12"	1	Linear Foot	\$ 190.00

15"	1	Linear Foot	\$ 215.00
18"	1	Linear Foot	\$ 240.00
21"	1	Linear Foot	\$ 350.00
24"	1	Linear Foot	\$ 375.00
30"	1	Linear Foot	\$ 440.00
36"	1	Linear Foot	\$ 525.00
42"	1	Linear Foot	\$ 600.00
48"	1	Linear Foot	\$ 750.00
54"	1	Linear Foot	\$ 1,000.00
60"	1	Linear Foot	\$ 1,500.00
66"	1	Linear Foot	\$ 2,000.00
72"	1	Linear Foot	\$ 3,000.00
Section X: Point Repair/Collar	Quantity	Unit	Unit Price
Additional Length up to 10' deep for 8"-24" pipe	1	Each	\$ 200.00
Additional Length up to 10' deep for 27"-48" pipe	1	Each	\$ 225.00
Additional Length up to 15' deep for 8"-24" pipe	1	Each	\$ 400.00
Additional Length up to 15' deep for 27"-48" pipe	1	Each	\$ 500.00
Section Y: Geopolymer Spray Applied Structural Liner	Quantity	Unit	Unit Price
Geopolymer Structural Liner	1	Foot	\$ 100.00
Section Z: Installation of Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 125.00
15"	1	Linear Foot	\$ 150.00
18"	1	Linear Foot	\$ 200.00
21"	1	Linear Foot	\$ 225.00
24"	1	Linear Foot	\$ 300.00
30"	1	Linear Foot	\$ 350.00
36"	1	Linear Foot	\$ 425.00
42"	1	Linear Foot	\$ 525.00
48"	1	Linear Foot	\$ 625.00
54"	1	Linear Foot	\$ 800.00
60"	1	Linear Foot	\$ 1,000.00
66"	1	Linear Foot	\$ 1,250.00
72"	1	Linear Foot	\$ 1,500.00
Percentage Adder for Polymer Coating (Apply to Section Items to Supply for Install CMP with Manufacturer Applied Polymer Coating)	1	Percent	\$ 25.00
Section AA: Installation of Polymer Coated Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 125.00
15"	1	Linear Foot	\$ 150.00
18"	1	Linear Foot	\$ 200.00
21"	1	Linear Foot	\$ 225.00

24"	1	Linear Foot	\$ 300.00
30"	1	Linear Foot	\$ 350.00
36"	1	Linear Foot	\$ 425.00
42"	1	Linear Foot	\$ 525.00
48"	1	Linear Foot	\$ 625.00
54"	1	Linear Foot	\$ 800.00
60"	1	Linear Foot	\$ 1,000.00
66"	1	Linear Foot	\$ 1,250.00
72"	1	Linear Foot	\$ 1,500.00

All unit prices are not to exceed pricing. Contractor must allow for lower pricing to be available for similar product and service purchases.

\$ 562,665.00

Schedule B - Pricing Grand Region

Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 45.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 50.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 130.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 135.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 140.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 145.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 210.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 210.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 255.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 255.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 360.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 415.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 650.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 1.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 4.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 10.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 11.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 14.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 18.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 25.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 10.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 10.00
Timber Matting for Setup	1	Square Yard	\$ 235.00
Internal Reconnection of service connection by robotic cutter	1	Each	\$ 350.00
Sealing of service connection with chemical grouting after internal reconnection (minimum quantity of 15 to be completed per mobilization)	1	Each	\$ 500.00
Concrete Cloth	1	Square Foot	\$ 25.00

Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)	Quantity	Unit	Unit Price
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 5' from main <15" diameter - No cleanout required	1	Each	\$ 2,000.00
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 20' from main <15" diameter - Cleanout required	1	Each	\$ 2,600.00
4-inch to 6-inch Installation and cure of structural lateral liner from main beyond 20' from main <15" diameter - Cleanout Required	1	Linear Foot	\$ 35.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 35.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 750.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 1,000.00

Section C: CIPP Point Repairs (Prices based on 4' minimum length)	Quantity	Unit	Unit Price
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6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 400.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 450.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 475.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 500.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 525.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 750.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 750.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,000.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,000.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,250.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,250.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,500.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,750.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 2,000.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 2,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 10.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 20.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 25.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 35.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 40.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00

Section D: Polyethylene (PE) Slip Lining - (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 20.00
6-inch diameter	1	Linear Foot	\$ 30.00
8-inch diameter	1	Linear Foot	\$ 40.00
10-inch diameter	1	Linear Foot	\$ 50.00
12-inch diameter	1	Linear Foot	\$ 110.00
18-inch diameter	1	Linear Foot	\$ 125.00
24-inch diameter	1	Linear Foot	\$ 200.00
30-inch diameter	1	Linear Foot	\$ 250.00
36-inch diameter	1	Linear Foot	\$ 350.00
42-inch diameter	1	Linear Foot	\$ 425.00
48-inch diameter	1	Linear Foot	\$ 475.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 340.00
Bulkheads	1	Each	\$ 500.00
Slip Lining Setup	1	Each	\$ 10,000.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - (Prices based on 80' minimum length)		Quantity	Unit	Unit Price
6-inch diameter		1	Linear Foot	\$ 45.00

8-inch diameter	1	Linear Foot	\$ 55.00
10-inch diameter	1	Linear Foot	\$ 65.00
12-inch diameter	1	Linear Foot	\$ 100.00
14-inch diameter	1	Linear Foot	\$ 115.00
16-inch diameter	1	Linear Foot	\$ 125.00
18-inch diameter	1	Linear Foot	\$ 135.00
20-inch diameter	1	Linear Foot	\$ 175.00
24-inch diameter	1	Linear Foot	\$ 250.00
30-inch diameter	1	Linear Foot	\$ 325.00
36-inch diameter	1	Linear Foot	\$ 375.00
42-inch diameter	1	Linear Foot	\$ 525.00
48-inch diameter	1	Linear Foot	\$ 625.00
54-inch diameter	1	Linear Foot	\$ 750.00
Setup fee per Pipe Bursting segment	1	Each	\$ 10,000.00

Note: Pipe Fusing/Joining in Section J

Section F: Manhole Connections	Quantity	Unit	Unit Price
6-inch diameter	1	Each	\$ 350.00
8-inch diameter	1	Each	\$ 375.00
10-inch diameter	1	Each	\$ 400.00
12-inch diameter	1	Each	\$ 450.00
14-inch diameter	1	Each	\$ 475.00
16-inch diameter	1	Each	\$ 500.00
18-inch diameter	1	Each	\$ 550.00
20-inch diameter	1	Each	\$ 600.00

Section G: Manhole Rehabilitation	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 2,000.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 60.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 60.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 60.00

Section H: Cleaning and Closed Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 45.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
Re-setup for clean & CCTV Inspection due to Point Repairs	1	Each	\$ 425.00
Root Removal	1	Linear Foot	\$ 15.00
Grease Removal	1	Linear Foot	\$ 15.00
Heavy Cleaning (more than three passes)	1	Hour	\$ 495.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,000.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00

Culvert End Cleanout	1	Each	\$ 2,500.00
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Section I: Bypass for Culverts and Associated Items	Quantity	Unit	Unit Price
Set Up 4-inch diameter Pump (Per Pump)	1	Each	\$ 750.00
Set Up 6-inch diameter Pump (Per Pump)	1	Each	\$ 1,500.00
Set Up 8-inch diameter Pump (Per Pump)	1	Each	\$ 2,250.00
Set Up 12-inch diameter Pump (Per Pump)	1	Each	\$ 5,000.00
Set Up 4-inch diameter Piping	1	Linear Foot	\$ 50.00
Set Up 6-inch diameter Piping	1	Linear Foot	\$ 75.00
Set Up 8-inch diameter Piping	1	Linear Foot	\$ 100.00
Set Up 12-inch diameter Piping	1	Linear Foot	\$ 150.00
Set Up 18-inch diameter Piping	1	Linear Foot	\$ 200.00
Operate 4-inch diameter Pumping System	1	Day	\$ 1,500.00
Operate 6-inch diameter Pumping System	1	Day	\$ 1,750.00
Operate 8-inch diameter Pumping System	1	Day	\$ 2,500.00
Operate 12-inch diameter Pumping System	1	Day	\$ 3,000.00
Bypass - Driveway Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,500.00
Bypass - Street Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,500.00
Bypass - Street Trenching for 8-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 100.00
Bypass - Street Trenching for 12-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 150.00
Bypass - Street Trenching for 18-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 175.00
Bypass Plan (3rd Party Certified)	1	Each	\$ 3,500.00

Section J: Pipe Fusing/Joining	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 750.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 30.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 50.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 110.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 135.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 160.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 185.00

Section K: Additional Items (As needed per project)	Quantity	Unit	Unit Price
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 20,000.00
Erosion Control	1	Linear Foot	\$ 20.00
Flex-A-Mat	1	Square Foot	\$ 27.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 17.00
Temporary Steel Sheet piling	1	Square Foot	\$ 75.00
Turbidity Curtain	1	Linear Foot	\$ 75.00
Inaccessible Outlet/Inlet Locations	1	Each	\$ 5,000.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 25.00
4 to 6 feet deep	1	Cubic Foot	\$ 30.00
6 to 10 feet deep	1	Cubic Foot	\$ 35.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 750.00
6 to 10 feet deep	1	Trench/week	\$ 1,000.00

d) Surface Restoration			
Sod	1	Square Foot	\$ 10.00
Seed & Mulch	1	Square Foot	\$ 2.00
Straw Matting	1	Square Foot	\$ 1.00
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 40.00
10-inch concrete	1	Square Foot	\$ 45.00
12-inch concrete	1	Square Foot	\$ 50.00
2-inch asphalt	1	Square Foot	\$ 20.00
3-inch asphalt	1	Square Foot	\$ 25.00
4-inch asphalt	1	Square Foot	\$ 40.00
6-inch asphalt	1	Square Foot	\$ 45.00
8-inch asphalt	1	Square Foot	\$ 50.00
10-inch asphalt	1	Square Foot	\$ 55.00
12-inch asphalt	1	Square Foot	\$ 60.00
Saw Cut	1	Linear Foot	\$ 9.00
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 22.00
Ditch Grading	1	Linear Foot	\$ 50.00
HMA Patching	1	Ton	\$ 585.00
Guardrail Remove and Replace	1	Linear Foot	\$ 55.00
Topsoil	1	Cubic Yard	\$ 85.00
Concrete Spillway	1	Linear Foot	\$ 200.00
Geo-Web Slope Restoration	1	Square Yard	\$ 50.00
Watering Vegetation	1	Hour	\$ 225.00
Geo-Fabric	1	Square Yard	\$ 8.00
Concrete Shoulder Gutter	1	Each	\$ 2,000.00
Detectable Warning Surface ADA Tile	1	Square Foot	\$ 30.00
Slope Reinforcement Matting (SRM)	1	Square Foot	\$ 27.00
Slope Paving	1	Square Yard	\$ 250.00
Slope Paving Header	1	Foot	\$ 330.00

e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 75.00
Rip Rap	1	Ton	\$ 200.00
Sand	1	Ton	\$ 60.00
Gravel	1	Ton	\$ 45.00
21AA	1	Ton	\$ 65.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 340.00
Embankment/Class II Fill	1	Cubic Yard	\$ 75.00
Cement Treated Aggregate	1	Ton	\$ 185.00
Dynamic Cone Penetrometer Testing	1	Each	\$ 600.00
Concrete or Asphalt Testing	1	Each	\$ 3,500.00
Aggregate Road Hard Surface	1	Square Yard	\$ 75.00
Concrete grout filled canvas bags	1	Each	\$ 500.00
f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 50.00

Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,450.00
Arrow Board	1	Each Day	\$ 75.00
Traffic Lane Shift	1	Each	\$ 3,500.00
Traffic Control Plan (certified)	1	Each	\$ 1,500.00
Traffic Detour	1	Each	\$ 20,000.00
Message Boards	1	Each Week	\$ 2,900.00
Temporary Traffic Signals delivered/set-up	1	Each	\$ 7,000.00
Temporary Traffic Signals Operational	1	Each Week	\$ 3,500.00
Night Work Lighting	1	Each Day	\$ 1,500.00
g) Miscellaneous			
Tree Removal, 6" to 18" Diameter, with stump removal	1	Each	\$ 1,600.00
Tree Removal, 19" to 36" Diameter, with stump removal	1	Each	\$ 3,400.00
Tree Removal, 37"+ Diameter, with stump removal	1	Each	\$ 4,200.00
Tree Removal, 6" to 18" Diameter, without stump removal	1	Each	\$ 1,200.00
Tree Removal, 19" to 36" Diameter, without stump removal	1	Each	\$ 3,000.00
Tree Removal, 37"+ Diameter, without stump removal	1	Each	\$ 4,000.00
Stump Removal	1	Each	\$ 325.00
Permit Fees	1	Each	\$ 500.00
Water Charges	1	Each	\$ 2,250.00
Disposal Fees	1	Each	\$ 2,250.00
Concrete Barrier Temporary	1	Linear Foot	\$ 200.00
Formed Concrete	1	Cubic Yard	\$ 2,500.00
Slope Paving	1	Square Yard	\$ 250.00
Clearing and grubbing	1	Square Yard	\$ 10.00
Curb and Gutter	1	Linear Foot	\$ 85.00
Barrier Wall Repair (5' minimum per location)	1	Linear Foot	\$ 1,590.00
Coring and Raising Frame and Cover	1	Each	\$ 4,200.00
Jet Filter	1	Each	\$ 1,300.00
Misc. Electric Materials	1	Lump Sum	\$ 2,500.00
Cold Weather Protection	1	Each	\$ 4,000.00
Galvanic Anode Protection	1	Each	\$ 75.00
Exploratory Excavation	1	Hour	\$ 1,300.00
Street Sweeping	1	Each	\$ 1,950.00

Note: Additional Items may apply to each section of the Contract

Section L: Professional Services, Civil Engineering, and Land Surveying	Quantity	Unit	Unit Price
Firm Principal	1	Hour	\$ 275.00
Senior Project Manager	1	Hour	\$ 225.00
Project Manager	1	Hour	\$ 200.00
Coordinator	1	Hour	\$ 150.00
Project surveyor	1	Hour	\$ 145.00
Project engineer	1	Hour	\$ 175.00
Engineering Technician	1	Hour	\$ 125.00
Two person field survey crew	1	Hour	\$ 250.00

One person field survey crew	1	Hour	\$ 150.00
Administrative services	1	Hour	\$ 100.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 1,900.00
27-inch diameter	1	Each	\$ 2,200.00
30-inch diameter	1	Each	\$ 3,700.00
33-inch diameter	1	Each	\$ 3,700.00
36-inch diameter	1	Each	\$ 4,000.00
42-inch diameter	1	Each	\$ 4,200.00
48-inch diameter	1	Each	\$ 4,300.00
54-inch diameter	1	Each	\$ 4,950.00
60-inch diameter	1	Each	\$ 5,500.00
66-inch diameter	1	Each	\$ 7,000.00
72-inch diameter	1	Each	\$ 8,250.00
78-inch diameter	1	Each	\$ 9,000.00
84-inch diameter	1	Each	\$ 9,500.00
96-inch diameter	1	Each	\$ 11,000.00
108-inch diameter	1	Each	\$ 11,750.00
120-inch diameter	1	Each	\$ 12,225.00
132-inch diameter	1	Each	\$ 12,750.00

144-inch diameter	1	Each	\$ 13,500.00
Joint Contraction	1	Linear Foot	\$ 25.00

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 15.00
10-inch diameter	1	Square Foot	\$ 20.00
12-inch diameter	1	Square Foot	\$ 50.00
15-inch diameter	1	Square Foot	\$ 60.00
18-inch diameter	1	Square Foot	\$ 70.00
24-inch diameter	1	Square Foot	\$ 72.00
30-inch diameter	1	Square Foot	\$ 73.00
36-inch diameter	1	Square Foot	\$ 74.00
42-inch diameter	1	Square Foot	\$ 75.00
48-inch diameter	1	Square Foot	\$ 80.00
54-inch diameter	1	Square Foot	\$ 90.00
60-inch diameter	1	Square Foot	\$ 100.00
66-inch diameter	1	Square Foot	\$ 125.00
72-inch diameter	1	Square Foot	\$ 130.00
78-inch diameter	1	Square Foot	\$ 140.00
84-inch diameter	1	Square Foot	\$ 155.00

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 4,500.00
36-inch diameter	1	Each	\$ 6,250.00
48-inch diameter	1	Each	\$ 10,000.00
60-inch diameter	1	Each	\$ 13,000.00
72-inch diameter	1	Each	\$ 15,500.00
84-inch diameter	1	Each	\$ 17,500.00
Adjust Structure	1	Each	\$ 3,000.00
Frame and Cover Replace	1	Each	\$ 1,250.00
Structure Reconstruct	1	Vertical Foot	\$ 925.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 600.00
Cleaning of Structures	1	Hourly	\$ 425.00
Drainage Structure Tap (up to 24")	1	Each	\$ 2,500.00
Clean and Seal Joints of Structures/box and wall ends	1	Linear Foot	\$ 100.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet (concrete)	1	Each	\$ 3,000.00
21-inch to 30-inch outlet (concrete)	1	Each	\$ 5,500.00
33-inch to 48-inch outlet (concrete)	1	Each	\$ 9,500.00
54-inch to 66-inch outlet (concrete)	1	Each	\$ 14,500.00
12-inch to 18-inch outlet (steel)	1	Each	\$ 2,500.00
21-inch to 30-inch outlet (steel)	1	Each	\$ 4,000.00
33-inch to 48-inch outlet (steel)	1	Each	\$ 6,500.00
54-inch to 66-inch outlet (steel)	1	Each	\$ 8,000.00

Section Q: End wall Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet	1	Each	\$ 5,500.00

21-inch to 30-inch outlet	1	Each	\$ 8,500.00
33-inch to 48-inch outlet	1	Each	\$ 10,500.00
54-inch to 66-inch outlet	1	Each	\$ 15,500.00

Section R: Labor/Equipment	Quantity	Unit	Unit Price
Supervisor	1	Hour	\$ 150.00
Foreman	1	Hour	\$ 145.00
Operator	1	Hour	\$ 125.00
Laborer	1	Hour	\$ 95.00
Finisher	1	Hour	\$ 100.00
Truck Driver	1	Hour	\$ 95.00
Excavator M318 (equiv.)	1	Hour	\$ 243.00
Excavator 325 (equiv.)	1	Hour	\$ 260.00
Excavator 315 (equiv.)	1	Hour	\$ 162.00
Excavator 308 (equiv.)	1	Hour	\$ 145.00
Excavator 305 (equiv.)	1	Hour	\$ 140.00
Loader 936 (equiv.)	1	Hour	\$ 150.00
Backhoe	1	Hour	\$ 80.00
Skid Steer	1	Hour	\$ 75.00
Dump Truck 5 yard (equiv.)	1	Hour	\$ 90.00
Quad Axle semi-dump	1	Hour	\$ 100.00
Gravel Train	1	Hour	\$ 115.00
Lowboy Trailer	1	Hour	\$ 115.00
Foreman Pick-up	1	Hour	\$ 30.00
Jobsite Pick-up	1	Hour	\$ 20.00
Utility Truck w/tools	1	Hour	\$ 80.00
Flatbed Truck	1	Hour	\$ 53.00
Dozer	1	Hour	\$ 225.00
Mini Excavator	1	Hour	\$ 140.00
Hydro-Excavator	1	Hour	\$ 425.00
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 325.00
185 CFM compressor	1	Day	\$ 325.00
Light Tower	1	Day	\$ 300.00
Concrete Saw	1	Day	\$ 300.00
Pipe Saw	1	Day	\$ 70.00

Place Compactor	1	Day	\$ 113.00
Misc. tools (jackhammers/spades/drills)	1	Day	\$ 120.00
Steel plates	1	Day	\$ 200.00
Traffic Barrell	1	Day	\$ 10.00

Section T: Glare Screen Repair	Quantity	Unit	Unit Price
1' to 5'	1	Linear Foot	\$ 2,000.00
6' to 10'	1	Linear Foot	\$ 1,500.00
11' to 15'	1	Linear Foot	\$ 1,000.00
16' to 20'	1	Linear Foot	\$ 750.00

Section U: Auger Bore Installation of Culvert/Drainage (80 foot minimum)	Quantity	Unit	Unit Price
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 300.00
18"	1	Linear Foot	\$ 350.00
21"	1	Linear Foot	\$ 375.00
24"	1	Linear Foot	\$ 500.00
30"	1	Linear Foot	\$ 600.00
36"	1	Linear Foot	\$ 720.00
42"	1	Linear Foot	\$ 840.00
48"	1	Linear Foot	\$ 960.00
54"	1	Linear Foot	\$ 1,080.00
60"	1	Linear Foot	\$ 1,200.00
66"	1	Linear Foot	\$ 1,320.00
72"	1	Linear Foot	\$ 1,440.00

Section V: Open Cut Repair of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 195.00
10"	1	Linear Foot	\$ 225.00
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 275.00
18"	1	Linear Foot	\$ 300.00
21"	1	Linear Foot	\$ 400.00
24"	1	Linear Foot	\$ 500.00
30"	1	Linear Foot	\$ 600.00
36"	1	Linear Foot	\$ 700.00
42"	1	Linear Foot	\$ 800.00
48"	1	Linear Foot	\$ 1,000.00
54"	1	Linear Foot	\$ 1,750.00
60"	1	Linear Foot	\$ 2,500.00
66"	1	Linear Foot	\$ 2,750.00
72"	1	Linear Foot	\$ 3,000.00

Section W: Removal of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 135.00
10"	1	Linear Foot	\$ 165.00
12"	1	Linear Foot	\$ 190.00

15"	1	Linear Foot	\$ 215.00
18"	1	Linear Foot	\$ 240.00
21"	1	Linear Foot	\$ 350.00
24"	1	Linear Foot	\$ 375.00
30"	1	Linear Foot	\$ 440.00
36"	1	Linear Foot	\$ 525.00
42"	1	Linear Foot	\$ 600.00
48"	1	Linear Foot	\$ 750.00
54"	1	Linear Foot	\$ 1,000.00
60"	1	Linear Foot	\$ 1,500.00
66"	1	Linear Foot	\$ 2,000.00
72"	1	Linear Foot	\$ 3,000.00
Section X: Point Repair/Collar	Quantity	Unit	Unit Price
Additional Length up to 10' deep for 8"-24" pipe	1	Each	\$ 200.00
Additional Length up to 10' deep for 27"-48" pipe	1	Each	\$ 225.00
Additional Length up to 15' deep for 8"-24" pipe	1	Each	\$ 400.00
Additional Length up to 15' deep for 27"-48" pipe	1	Each	\$ 500.00
Section Y: Geopolymer Spray Applied Structural Liner	Quantity	Unit	Unit Price
Geopolymer Structural Liner	1	Foot	\$ 100.00
Section Z: Installation of Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 125.00
15"	1	Linear Foot	\$ 150.00
18"	1	Linear Foot	\$ 200.00
21"	1	Linear Foot	\$ 225.00
24"	1	Linear Foot	\$ 300.00
30"	1	Linear Foot	\$ 350.00
36"	1	Linear Foot	\$ 425.00
42"	1	Linear Foot	\$ 525.00
48"	1	Linear Foot	\$ 625.00
54"	1	Linear Foot	\$ 800.00
60"	1	Linear Foot	\$ 1,000.00
66"	1	Linear Foot	\$ 1,250.00
72"	1	Linear Foot	\$ 1,500.00
Percentage Adder for Polymer Coating (Apply to Section Items to Supply for Install CMP with Manufacturer Applied Polymer Coating)	1	Percent	\$ 25.00
Section AA: Installation of Polymer Coated Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 125.00
15"	1	Linear Foot	\$ 150.00
18"	1	Linear Foot	\$ 200.00
21"	1	Linear Foot	\$ 225.00
24"	1	Linear Foot	\$ 300.00

30"	1	Linear Foot	\$ 350.00
36"	1	Linear Foot	\$ 425.00
42"	1	Linear Foot	\$ 525.00
48"	1	Linear Foot	\$ 625.00
54"	1	Linear Foot	\$ 800.00
60"	1	Linear Foot	\$ 1,000.00
66"	1	Linear Foot	\$ 1,250.00
72"	1	Linear Foot	\$ 1,500.00

All unit prices are not to exceed pricing. Contractor must allow for lower pricing to be available for similar product and service purchases.

\$ 562,665.00

Schedule B - Pricing Metro Region

Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 45.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 50.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 130.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 135.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 140.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 145.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 210.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 210.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 255.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 255.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 360.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 415.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 650.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 1.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 4.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 10.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 11.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 14.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 18.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 25.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00

6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 10.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 10.00
Timber Matting for Setup	1	Square Yard	\$ 235.00
Internal Reconnection of service connection by robotic cutter	1	Each	\$ 350.00
Sealing of service connection with chemical grouting after internal reconnection (minimum quantity of 15 to be completed per mobilization)	1	Each	\$ 500.00
Concrete Cloth	1	Square Foot	\$ 25.00

Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)			
	Quantity	Unit	Unit Price
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 5' from main <15" diameter - No cleanout required	1	Each	\$ 2,000.00
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 20' from main <15" diameter - Cleanout required	1	Each	\$ 2,600.00
4-inch to 6-inch Installation and cure of structural lateral liner from main beyond 20' from main <15" diameter - Cleanout Required	1	Linear Foot	\$ 35.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 35.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 750.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 1,000.00
Section C: CIPP Point Repairs (Prices based on 4' minimum length)			
	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 400.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 450.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 475.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 500.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 525.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 750.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 750.00

24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,000.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,000.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,250.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,250.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,500.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,750.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 2,000.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 2,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 10.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 20.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 25.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 35.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 40.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00

Section D: Polyethylene (PE) Slip Lining - (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 20.00
6-inch diameter	1	Linear Foot	\$ 30.00
8-inch diameter	1	Linear Foot	\$ 40.00
10-inch diameter	1	Linear Foot	\$ 50.00
12-inch diameter	1	Linear Foot	\$ 110.00
18-inch diameter	1	Linear Foot	\$ 125.00
24-inch diameter	1	Linear Foot	\$ 200.00
30-inch diameter	1	Linear Foot	\$ 250.00
36-inch diameter	1	Linear Foot	\$ 350.00

42-inch diameter	1	Linear Foot	\$ 425.00
48-inch diameter	1	Linear Foot	\$ 475.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 340.00
Bulkheads	1	Each	\$ 500.00
Slip Lining Setup	1	Each	\$ 10,000.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$ 45.00
8-inch diameter	1	Linear Foot	\$ 55.00
10-inch diameter	1	Linear Foot	\$ 65.00
12-inch diameter	1	Linear Foot	\$ 100.00
14-inch diameter	1	Linear Foot	\$ 115.00
16-inch diameter	1	Linear Foot	\$ 125.00
18-inch diameter	1	Linear Foot	\$ 135.00
20-inch diameter	1	Linear Foot	\$ 175.00
24-inch diameter	1	Linear Foot	\$ 250.00
30-inch diameter	1	Linear Foot	\$ 325.00
36-inch diameter	1	Linear Foot	\$ 375.00
42-inch diameter	1	Linear Foot	\$ 525.00
48-inch diameter	1	Linear Foot	\$ 625.00
54-inch diameter	1	Linear Foot	\$ 750.00
Setup fee per Pipe Bursting segment	1	Each	\$ 10,000.00

Note: Pipe Fusing/Joining in Section J

Section F: Manhole Connections	Quantity	Unit	Unit Price
6-inch diameter	1	Each	\$ 350.00
8-inch diameter	1	Each	\$ 375.00
10-inch diameter	1	Each	\$ 400.00
12-inch diameter	1	Each	\$ 450.00
14-inch diameter	1	Each	\$ 475.00
16-inch diameter	1	Each	\$ 500.00
18-inch diameter	1	Each	\$ 550.00
20-inch diameter	1	Each	\$ 600.00

Section G: Manhole Rehabilitation	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 2,000.00

Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 60.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 60.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 60.00

Section H: Cleaning and Closed Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 45.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
Re-setup for clean & CCTV Inspection due to Point Repairs	1	Each	\$ 425.00
Root Removal	1	Linear Foot	\$ 15.00
Grease Removal	1	Linear Foot	\$ 15.00
Heavy Cleaning (more than three passes)	1	Hour	\$ 495.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,000.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00
Culvert End Cleanout	1	Each	\$ 2,500.00

Section I: Bypass for Culverts and Associated Items	Quantity	Unit	Unit Price
Set Up 4-inch diameter Pump (Per Pump)	1	Each	\$ 750.00
Set Up 6-inch diameter Pump (Per Pump)	1	Each	\$ 1,500.00
Set Up 8-inch diameter Pump (Per Pump)	1	Each	\$ 2,250.00
Set Up 12-inch diameter Pump (Per Pump)	1	Each	\$ 5,000.00
Set Up 4-inch diameter Piping	1	Linear Foot	\$ 50.00
Set Up 6-inch diameter Piping	1	Linear Foot	\$ 75.00
Set Up 8-inch diameter Piping	1	Linear Foot	\$ 100.00
Set Up 12-inch diameter Piping	1	Linear Foot	\$ 150.00
Set Up 18-inch diameter Piping	1	Linear Foot	\$ 200.00
Operate 4-inch diameter Pumping System	1	Day	\$ 1,500.00
Operate 6-inch diameter Pumping System	1	Day	\$ 1,750.00
Operate 8-inch diameter Pumping System	1	Day	\$ 2,500.00
Operate 12-inch diameter Pumping System	1	Day	\$ 3,000.00
Bypass - Driveway Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,500.00
Bypass - Street Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,500.00
Bypass - Street Trenching for 8-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 100.00

Bypass - Street Trenching for 12-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 150.00
Bypass - Street Trenching for 18-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 175.00
Bypass Plan (3rd Party Certified)	1	Each	\$ 3,500.00

Section J: Pipe Fusing/Joining	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 750.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 30.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 50.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 110.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 135.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 160.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 185.00

Section K: Additional Items (As needed per project)	Quantity	Unit	Unit Price
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 20,000.00
Erosion Control	1	Linear Foot	\$ 20.00
Flex-A-Mat	1	Square Foot	\$ 27.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 17.00
Temporary Steel Sheet piling	1	Square Foot	\$ 75.00
Turbidity Curtain	1	Linear Foot	\$ 75.00
Inaccessible Outlet/Inlet Locations	1	Each	\$ 5,000.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 25.00
4 to 6 feet deep	1	Cubic Foot	\$ 30.00
6 to 10 feet deep	1	Cubic Foot	\$ 35.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 750.00
6 to 10 feet deep	1	Trench/week	\$ 1,000.00
d) Surface Restoration			
Sod	1	Square Foot	\$ 10.00
Seed & Mulch	1	Square Foot	\$ 2.00
Straw Matting	1	Square Foot	\$ 1.00
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 40.00
10-inch concrete	1	Square Foot	\$ 45.00
12-inch concrete	1	Square Foot	\$ 50.00
2-inch asphalt	1	Square Foot	\$ 20.00
3-inch asphalt	1	Square Foot	\$ 25.00
4-inch asphalt	1	Square Foot	\$ 40.00

6-inch asphalt	1	Square Foot	\$ 45.00
8-inch asphalt	1	Square Foot	\$ 50.00
10-inch asphalt	1	Square Foot	\$ 55.00
12-inch asphalt	1	Square Foot	\$ 60.00
Saw Cut	1	Linear Foot	\$ 9.00
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 22.00
Ditch Grading	1	Linear Foot	\$ 50.00
HMA Patching	1	Ton	\$ 585.00
Guardrail Remove and Replace	1	Linear Foot	\$ 55.00
Topsoil	1	Cubic Yard	\$ 85.00
Concrete Spillway	1	Linear Foot	\$ 200.00
Geo-Web Slope Restoration	1	Square Yard	\$ 50.00
Watering Vegetation	1	Hour	\$ 225.00
Geo-Fabric	1	Square Yard	\$ 8.00
Concrete Shoulder Gutter	1	Each	\$ 2,000.00
Detectable Warning Surface ADA Tile	1	Square Foot	\$ 30.00
Slope Reinforcement Matting (SRM)	1	Square Foot	\$ 27.00
Slope Paving	1	Square Yard	\$ 250.00
Slope Paving Header	1	Foot	\$ 330.00

e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 75.00
Rip Rap	1	Ton	\$ 200.00
Sand	1	Ton	\$ 60.00
Gravel	1	Ton	\$ 45.00
21AA	1	Ton	\$ 65.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 340.00
Embankment/Class II Fill	1	Cubic Yard	\$ 75.00
Cement Treated Aggregate	1	Ton	\$ 185.00
Dynamic Cone Penetrometer Testing	1	Each	\$ 600.00
Concrete or Asphalt Testing	1	Each	\$ 3,500.00
Aggregate Road Hard Surface	1	Square Yard	\$ 75.00
Concrete grout filled canvas bags	1	Each	\$ 500.00
f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 50.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,450.00
Arrow Board	1	Each Day	\$ 75.00
Traffic Lane Shift	1	Each	\$ 3,500.00
Traffic Control Plan (certified)	1	Each	\$ 1,500.00

Traffic Detour	1	Each	\$ 20,000.00
Message Boards	1	Each Week	\$ 2,900.00
Temporary Traffic Signals delivered/set-up	1	Each	\$ 7,000.00
Temporary Traffic Signals Operational	1	Each Week	\$ 3,500.00
Night Work Lighting	1	Each Day	\$ 1,500.00
g) Miscellaneous			
Tree Removal, 6" to 18" Diameter, with stump removal	1	Each	\$ 1,600.00
Tree Removal, 19" to 36" Diameter, with stump removal	1	Each	\$ 3,400.00
Tree Removal, 37"+ Diameter, with stump removal	1	Each	\$ 4,200.00
Tree Removal, 6" to 18" Diameter, without stump removal	1	Each	\$ 1,200.00
Tree Removal, 19" to 36" Diameter, without stump removal	1	Each	\$ 3,000.00
Tree Removal, 37"+ Diameter, without stump removal	1	Each	\$ 4,000.00
Stump Removal	1	Each	\$ 325.00
Permit Fees	1	Each	\$ 500.00
Water Charges	1	Each	\$ 2,250.00
Disposal Fees	1	Each	\$ 2,250.00
Concrete Barrier Temporary	1	Linear Foot	\$ 200.00
Formed Concrete	1	Cubic Yard	\$ 2,500.00
Slope Paving	1	Square Yard	\$ 250.00
Clearing and grubbing	1	Square Yard	\$ 10.00
Curb and Gutter	1	Linear Foot	\$ 85.00
Barrier Wall Repair (5' minimum per location)	1	Linear Foot	\$ 1,590.00
Coring and Raising Frame and Cover	1	Each	\$ 4,200.00
Jet Filter	1	Each	\$ 1,300.00
Misc. Electric Materials	1	Lump Sum	\$ 2,500.00
Cold Weather Protection	1	Each	\$ 4,000.00
Galvanic Anode Protection	1	Each	\$ 75.00
Exploratory Excavation	1	Hour	\$ 1,300.00
Street Sweeping	1	Each	\$ 1,950.00

Note: Additional Items may apply to each section of the Contract

Section L: Professional Services, Civil Engineering, and Land Surveying	Quantity	Unit	Unit Price
Firm Principal	1	Hour	\$ 275.00
Senior Project Manager	1	Hour	\$ 225.00
Project Manager	1	Hour	\$ 200.00
Coordinator	1	Hour	\$ 150.00
Project surveyor	1	Hour	\$ 145.00
Project engineer	1	Hour	\$ 175.00
Engineering Technician	1	Hour	\$ 125.00

Two person field survey crew	1	Hour	\$ 250.00
One person field survey crew	1	Hour	\$ 150.00
Administrative services	1	Hour	\$ 100.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 1,900.00
27-inch diameter	1	Each	\$ 2,200.00
30-inch diameter	1	Each	\$ 3,700.00
33-inch diameter	1	Each	\$ 3,700.00
36-inch diameter	1	Each	\$ 4,000.00
42-inch diameter	1	Each	\$ 4,200.00
48-inch diameter	1	Each	\$ 4,300.00
54-inch diameter	1	Each	\$ 4,950.00
60-inch diameter	1	Each	\$ 5,500.00
66-inch diameter	1	Each	\$ 7,000.00
72-inch diameter	1	Each	\$ 8,250.00
78-inch diameter	1	Each	\$ 9,000.00
84-inch diameter	1	Each	\$ 9,500.00
96-inch diameter	1	Each	\$ 11,000.00
108-inch diameter	1	Each	\$ 11,750.00
120-inch diameter	1	Each	\$ 12,225.00
132-inch diameter	1	Each	\$ 12,750.00

144-inch diameter	1	Each	\$ 13,500.00
Joint Contraction	1	Linear Foot	\$ 25.00

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 15.00
10-inch diameter	1	Square Foot	\$ 20.00
12-inch diameter	1	Square Foot	\$ 50.00
15-inch diameter	1	Square Foot	\$ 60.00
18-inch diameter	1	Square Foot	\$ 70.00
24-inch diameter	1	Square Foot	\$ 72.00
30-inch diameter	1	Square Foot	\$ 73.00
36-inch diameter	1	Square Foot	\$ 74.00
42-inch diameter	1	Square Foot	\$ 75.00
48-inch diameter	1	Square Foot	\$ 80.00
54-inch diameter	1	Square Foot	\$ 90.00
60-inch diameter	1	Square Foot	\$ 100.00
66-inch diameter	1	Square Foot	\$ 125.00
72-inch diameter	1	Square Foot	\$ 130.00
78-inch diameter	1	Square Foot	\$ 140.00
84-inch diameter	1	Square Foot	\$ 155.00

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 4,500.00
36-inch diameter	1	Each	\$ 6,250.00
48-inch diameter	1	Each	\$ 10,000.00
60-inch diameter	1	Each	\$ 13,000.00
72-inch diameter	1	Each	\$ 15,500.00
84-inch diameter	1	Each	\$ 17,500.00
Adjust Structure	1	Each	\$ 3,000.00
Frame and Cover Replace	1	Each	\$ 1,250.00
Structure Reconstruct	1	Vertical Foot	\$ 925.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 600.00
Cleaning of Structures	1	Hourly	\$ 425.00
Drainage Structure Tap (up to 24")	1	Each	\$ 2,500.00
Clean and Seal Joints of Structures/box and wall ends	1	Linear Foot	\$ 100.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet (concrete)	1	Each	\$ 3,000.00
21-inch to 30-inch outlet (concrete)	1	Each	\$ 5,500.00
33-inch to 48-inch outlet (concrete)	1	Each	\$ 9,500.00
54-inch to 66-inch outlet (concrete)	1	Each	\$ 14,500.00

12-inch to 18-inch outlet (steel)	1	Each	\$ 2,500.00
21-inch to 30-inch outlet (steel)	1	Each	\$ 4,000.00
33-inch to 48-inch outlet (steel)	1	Each	\$ 6,500.00
54-inch to 66-inch outlet (steel)	1	Each	\$ 8,000.00

Section Q: End wall Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet	1	Each	\$ 5,500.00
21-inch to 30-inch outlet	1	Each	\$ 8,500.00
33-inch to 48-inch outlet	1	Each	\$ 10,500.00
54-inch to 66-inch outlet	1	Each	\$ 15,500.00

Section R: Labor/Equipment	Quantity	Unit	Unit Price
Supervisor	1	Hour	\$ 150.00
Foreman	1	Hour	\$ 145.00
Operator	1	Hour	\$ 125.00
Laborer	1	Hour	\$ 95.00
Finisher	1	Hour	\$ 100.00
Truck Driver	1	Hour	\$ 95.00
Excavator M318 (equiv.)	1	Hour	\$ 243.00
Excavator 325 (equiv.)	1	Hour	\$ 260.00
Excavator 315 (equiv.)	1	Hour	\$ 162.00
Excavator 308 (equiv.)	1	Hour	\$ 145.00
Excavator 305 (equiv.)	1	Hour	\$ 140.00
Loader 936 (equiv.)	1	Hour	\$ 150.00
Backhoe	1	Hour	\$ 80.00
Skid Steer	1	Hour	\$ 75.00
Dump Truck 5 yard (equiv.)	1	Hour	\$ 90.00
Quad Axle semi-dump	1	Hour	\$ 100.00
Gravel Train	1	Hour	\$ 115.00
Lowboy Trailer	1	Hour	\$ 115.00
Foreman Pick-up	1	Hour	\$ 30.00
Jobsite Pick-up	1	Hour	\$ 20.00
Utility Truck w/tools	1	Hour	\$ 80.00
Flatbed Truck	1	Hour	\$ 53.00
Dozer	1	Hour	\$ 225.00
Mini Excavator	1	Hour	\$ 140.00
Hydro-Excavator	1	Hour	\$ 425.00
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 325.00
185 CFM compressor	1	Day	\$ 325.00
Light Tower	1	Day	\$ 300.00

Concrete Saw	1	Day	\$ 300.00
Pipe Saw	1	Day	\$ 70.00

Place Compactor	1	Day	\$ 113.00
Misc. tools (jackhammers/spades/drills)	1	Day	\$ 120.00
Steel plates	1	Day	\$ 200.00
Traffic Barrell	1	Day	\$ 10.00

Section T: Glare Screen Repair	Quantity	Unit	Unit Price
1' to 5'	1	Linear Foot	\$ 2,000.00
6' to 10'	1	Linear Foot	\$ 1,500.00
11' to 15'	1	Linear Foot	\$ 1,000.00
16' to 20'	1	Linear Foot	\$ 750.00

Section U: Auger Bore Installation of Culvert/Drainage (80 foot minimum)	Quantity	Unit	Unit Price
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 300.00
18"	1	Linear Foot	\$ 350.00
21"	1	Linear Foot	\$ 375.00
24"	1	Linear Foot	\$ 500.00
30"	1	Linear Foot	\$ 600.00
36"	1	Linear Foot	\$ 720.00
42"	1	Linear Foot	\$ 840.00
48"	1	Linear Foot	\$ 960.00
54"	1	Linear Foot	\$ 1,080.00
60"	1	Linear Foot	\$ 1,200.00
66"	1	Linear Foot	\$ 1,320.00
72"	1	Linear Foot	\$ 1,440.00

Section V: Open Cut Repair of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 195.00
10"	1	Linear Foot	\$ 225.00
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 275.00
18"	1	Linear Foot	\$ 300.00
21"	1	Linear Foot	\$ 400.00
24"	1	Linear Foot	\$ 500.00
30"	1	Linear Foot	\$ 600.00
36"	1	Linear Foot	\$ 700.00
42"	1	Linear Foot	\$ 800.00
48"	1	Linear Foot	\$ 1,000.00
54"	1	Linear Foot	\$ 1,750.00
60"	1	Linear Foot	\$ 2,500.00

66"	1	Linear Foot	\$ 2,750.00
72"	1	Linear Foot	\$ 3,000.00

Section W: Removal of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 135.00
10"	1	Linear Foot	\$ 165.00
12"	1	Linear Foot	\$ 190.00
15"	1	Linear Foot	\$ 215.00
18"	1	Linear Foot	\$ 240.00
21"	1	Linear Foot	\$ 350.00
24"	1	Linear Foot	\$ 375.00
30"	1	Linear Foot	\$ 440.00
36"	1	Linear Foot	\$ 525.00
42"	1	Linear Foot	\$ 600.00
48"	1	Linear Foot	\$ 750.00
54"	1	Linear Foot	\$ 1,000.00
60"	1	Linear Foot	\$ 1,500.00
66"	1	Linear Foot	\$ 2,000.00
72"	1	Linear Foot	\$ 3,000.00

Section X: Point Repair/Collar	Quantity	Unit	Unit Price
Additional Length up to 10' deep for 8"-24" pipe	1	Each	\$ 200.00
Additional Length up to 10' deep for 27"-48" pipe	1	Each	\$ 225.00
Additional Length up to 15' deep for 8"-24" pipe	1	Each	\$ 400.00
Additional Length up to 15' deep for 27"-48" pipe	1	Each	\$ 500.00

Section Y: Geopolymer Spray Applied Structural Liner	Quantity	Unit	Unit Price
Geopolymer Structural Liner	1	Foot	\$ 100.00

Section Z: Installation of Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 125.00
15"	1	Linear Foot	\$ 150.00
18"	1	Linear Foot	\$ 200.00
21"	1	Linear Foot	\$ 225.00
24"	1	Linear Foot	\$ 300.00
30"	1	Linear Foot	\$ 350.00
36"	1	Linear Foot	\$ 425.00
42"	1	Linear Foot	\$ 525.00
48"	1	Linear Foot	\$ 625.00
54"	1	Linear Foot	\$ 800.00

60"	1	Linear Foot	\$ 1,000.00
66"	1	Linear Foot	\$ 1,250.00
72"	1	Linear Foot	\$ 1,500.00
Percentage Adder for Polymer Coating (Apply to Section Items to Supply for Install CMP with Manufacturer Applied Polymer Coating)	1	Percent	\$ 25.00
Section AA: Installation of Polymer Coated Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 125.00
15"	1	Linear Foot	\$ 150.00
18"	1	Linear Foot	\$ 200.00
21"	1	Linear Foot	\$ 225.00
24"	1	Linear Foot	\$ 300.00
30"	1	Linear Foot	\$ 350.00
36"	1	Linear Foot	\$ 425.00
42"	1	Linear Foot	\$ 525.00
48"	1	Linear Foot	\$ 625.00
54"	1	Linear Foot	\$ 800.00
60"	1	Linear Foot	\$ 1,000.00
66"	1	Linear Foot	\$ 1,250.00
72"	1	Linear Foot	\$ 1,500.00

All unit prices are not to exceed pricing. Contractor must allow for lower pricing to be available for similar product and service purchases.

\$ 562,665.00

Schedule B - Pricing North Region

Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 51.75
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 57.50
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 110.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 145.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 150.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 160.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 165.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 240.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 245.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 290.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 295.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 350.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 450.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 575.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 700.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 1.15
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 4.60
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.75
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 11.50
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.65
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 13.80
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 13.80
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 16.10
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 20.70
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 28.75
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 34.50
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 11.50
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 11.50
Timber Matting for Setup	1	Square Yard	\$ 270.25
Internal Reconnection of service connection by robotic cutter	1	Each	\$ 402.50
Sealing of service connection with chemical grouting after internal reconnection (minimum quantity of 15 to be completed per mobilization)	1	Each	\$ 575.00
Concrete Cloth	1	Square Foot	\$ 28.75
Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)			
	Quantity	Unit	Unit Price

4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 5' from main <15" diameter - No cleanout required	1	Each	\$ 2,000.00
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 20' from main <15" diameter - Cleanout required	1	Each	\$ 2,600.00
4-inch to 6-inch Installation and cure of structural lateral liner from main beyond 20' from main <15" diameter - Cleanout Required	1	Linear Foot	\$ 35.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 35.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 750.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 1,000.00
Section C: CIPP Point Repairs			
(Prices based on 4' minimum length)	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 460.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 517.50
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 546.25
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 575.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 603.75
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 862.50
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 862.50
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,150.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,150.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,437.50
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,437.50
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,725.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 2,012.50
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 2,300.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 2,587.50
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 11.50
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 23.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 28.75
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 34.50
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 34.50
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 34.50
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 34.50
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 40.25
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 46.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 51.75
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 57.50
Section D: Polyethylene (PE) Slip Lining -			
(Prices based on 80' minimum length)	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 23.00

6-inch diameter	1	Linear Foot	\$ 34.50
8-inch diameter	1	Linear Foot	\$ 46.00
10-inch diameter	1	Linear Foot	\$ 57.50
12-inch diameter	1	Linear Foot	\$ 126.50
18-inch diameter	1	Linear Foot	\$ 143.75
24-inch diameter	1	Linear Foot	\$ 230.00
30-inch diameter	1	Linear Foot	\$ 287.50
36-inch diameter	1	Linear Foot	\$ 402.50
42-inch diameter	1	Linear Foot	\$ 488.75
48-inch diameter	1	Linear Foot	\$ 546.25
54-inch diameter	1	Linear Foot	\$ 575.00
Annular Space - Grouting	1	Cubic Yard	\$ 391.00
Bulkheads	1	Each	\$ 575.00
Slip Lining Setup	1	Each	\$ 15,000.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - (Prices based on 80' minimum length)		Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$	51.75
8-inch diameter	1	Linear Foot	\$	63.25
10-inch diameter	1	Linear Foot	\$	74.75
12-inch diameter	1	Linear Foot	\$	115.00
14-inch diameter	1	Linear Foot	\$	132.25
16-inch diameter	1	Linear Foot	\$	143.75
18-inch diameter	1	Linear Foot	\$	155.25
20-inch diameter	1	Linear Foot	\$	201.25
24-inch diameter	1	Linear Foot	\$	287.50
30-inch diameter	1	Linear Foot	\$	373.75
36-inch diameter	1	Linear Foot	\$	431.25
42-inch diameter	1	Linear Foot	\$	603.75
48-inch diameter	1	Linear Foot	\$	718.75
54-inch diameter	1	Linear Foot	\$	862.50
Setup fee per Pipe Bursting segment	1	Each	\$	15,000.00

Note: Pipe Fusing/Joining in Section J

Section F: Manhole Connections			Quantity	Unit	Unit Price
6-inch diameter			1	Each	\$ 402.50
8-inch diameter			1	Each	\$ 431.25
10-inch diameter			1	Each	\$ 460.00
12-inch diameter			1	Each	\$ 517.50
14-inch diameter			1	Each	\$ 546.25
16-inch diameter			1	Each	\$ 575.00

18-inch diameter	1	Each	\$ 632.50
20-inch diameter	1	Each	\$ 690.00

Section G: Manhole Rehabilitation			
	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 2,300.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 862.50
Manhole rehabilitation - cementitious	1	Square Foot	\$ 69.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 69.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 69.00

Section H: Cleaning and Closed Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 45.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
Re-setup for clean & CCTV Inspection due to Point Repairs	1	Each	\$ 425.00
Root Removal	1	Linear Foot	\$ 15.00
Grease Removal	1	Linear Foot	\$ 15.00
Heavy Cleaning (more than three passes)	1	Hour	\$ 495.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,000.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00
Culvert End Cleanout	1	Each	\$ 2,500.00

Section I: Bypass for Culverts and Associated Items			
	Quantity	Unit	Unit Price
Set Up 4-inch diameter Pump (Per Pump)	1	Each	\$ 862.50
Set Up 6-inch diameter Pump (Per Pump)	1	Each	\$ 1,725.00
Set Up 8-inch diameter Pump (Per Pump)	1	Each	\$ 2,587.50
Set Up 12-inch diameter Pump (Per Pump)	1	Each	\$ 5,750.00
Set Up 4-inch diameter Piping	1	Linear Foot	\$ 57.50
Set Up 6-inch diameter Piping	1	Linear Foot	\$ 86.25
Set Up 8-inch diameter Piping	1	Linear Foot	\$ 115.00
Set Up 12-inch diameter Piping	1	Linear Foot	\$ 172.50
Set Up 18-inch diameter Piping	1	Linear Foot	\$ 230.00
Operate 4-inch diameter Pumping System	1	Day	\$ 1,725.00
Operate 6-inch diameter Pumping System	1	Day	\$ 2,012.50
Operate 8-inch diameter Pumping System	1	Day	\$ 2,875.00
Operate 12-inch diameter Pumping System	1	Day	\$ 3,450.00

Bypass - Driveway Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,725.00
Bypass - Street Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,725.00
Bypass - Street Trenching for 8-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 115.00
Bypass - Street Trenching for 12-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 172.50
Bypass - Street Trenching for 18-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 201.25
Bypass Plan (3rd Party Certified)	1	Each	\$ 4,025.00

Section J: Pipe Fusing/Joining	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 40.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 55.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 120.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 140.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 175.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 200.00

Section K: Additional Items (As needed per project)	Quantity	Unit	Unit Price
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 25,000.00
Erosion Control	1	Linear Foot	\$ 20.00
Flex-A-Mat	1	Square Foot	\$ 27.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 17.00
Temporary Steel Sheeting	1	Square Foot	\$ 75.00
Turbidity Curtain	1	Linear Foot	\$ 75.00
Inaccessible Outlet/Inlet Locations	1	Each	\$ 5,000.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 25.00
4 to 6 feet deep	1	Cubic Foot	\$ 30.00
6 to 10 feet deep	1	Cubic Foot	\$ 35.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 750.00
6 to 10 feet deep	1	Trench/week	\$ 1,000.00
d) Surface Restoration			
Sod	1	Square Foot	\$ 10.00
Seed & Mulch	1	Square Foot	\$ 2.00
Straw Matting	1	Square Foot	\$ 1.00
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 40.00
10-inch concrete	1	Square Foot	\$ 45.00
12-inch concrete	1	Square Foot	\$ 50.00

2-inch asphalt	1	Square Foot	\$ 20.00
3-inch asphalt	1	Square Foot	\$ 25.00
4-inch asphalt	1	Square Foot	\$ 40.00
6-inch asphalt	1	Square Foot	\$ 45.00
8-inch asphalt	1	Square Foot	\$ 50.00
10-inch asphalt	1	Square Foot	\$ 55.00
12-inch asphalt	1	Square Foot	\$ 60.00
Saw Cut	1	Linear Foot	\$ 9.00
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 22.00
Ditch Grading	1	Linear Foot	\$ 50.00
HMA Patching	1	Ton	\$ 585.00
Guardrail Remove and Replace	1	Linear Foot	\$ 55.00
Topsoil	1	Cubic Yard	\$ 85.00
Concrete Spillway	1	Linear Foot	\$ 200.00
Geo-Web Slope Restoration	1	Square Yard	\$ 50.00
Watering Vegetation	1	Hour	\$ 225.00
Geo-Fabric	1	Square Yard	\$ 8.00
Concrete Shoulder Gutter	1	Each	\$ 2,000.00
Detectable Warning Surface ADA Tile	1	Square Foot	\$ 30.00
Slope Reinforcement Matting (SRM)	1	Square Foot	\$ 27.00
Slope Paving	1	Square Yard	\$ 250.00
Slope Paving Header	1	Foot	\$ 330.00

e) Materials

Excavation and Culvert Bedding	1	Ton	\$ 75.00
Rip Rap	1	Ton	\$ 200.00
Sand	1	Ton	\$ 60.00
Gravel	1	Ton	\$ 45.00
21AA	1	Ton	\$ 65.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 340.00
Embankment/Class II Fill	1	Cubic Yard	\$ 75.00
Cement Treated Aggregate	1	Ton	\$ 185.00
Dynamic Cone Penetrometer Testing	1	Each	\$ 600.00
Concrete or Asphalt Testing	1	Each	\$ 3,500.00
Aggregate Road Hard Surface	1	Square Yard	\$ 75.00
Concrete grout filled canvas bags	1	Each	\$ 500.00

f) Maintenance of Traffic

Sinage	1	Each Month	\$ 50.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,450.00

Arrow Board	1	Each Day	\$ 75.00
Traffic Lane Shift	1	Each	\$ 3,500.00
Traffic Control Plan (certified)	1	Each	\$ 1,500.00
Traffic Detour	1	Each	\$ 20,000.00
Message Boards	1	Each Week	\$ 2,900.00
Temporary Traffic Signals delivered/set-up	1	Each	\$ 7,000.00
Temporary Traffic Signals Operational	1	Each Week	\$ 3,500.00
Night Work Lighting	1	Each Day	\$ 1,500.00
g) Miscellaneous			
Tree Removal, 6" to 18" Diameter, with stump removal	1	Each	\$ 1,600.00
Tree Removal, 19" to 36" Diameter, with stump removal	1	Each	\$ 3,400.00
Tree Removal, 37"+ Diameter, with stump removal	1	Each	\$ 4,200.00
Tree Removal, 6" to 18" Diameter, without stump removal	1	Each	\$ 1,200.00
Tree Removal, 19" to 36" Diameter, without stump removal	1	Each	\$ 3,000.00
Tree Removal, 37"+ Diameter, without stump removal	1	Each	\$ 4,000.00
Stump Removal	1	Each	\$ 325.00
Permit Fees	1	Each	\$ 500.00
Water Charges	1	Each	\$ 2,250.00
Disposal Fees	1	Each	\$ 2,250.00
Concrete Barrier Temporary	1	Linear Foot	\$ 200.00
Formed Concrete	1	Cubic Yard	\$ 2,500.00
Slope Paving	1	Square Yard	\$ 250.00
Clearing and grubbing	1	Square Yard	\$ 10.00
Curb and Gutter	1	Linear Foot	\$ 85.00
Barrier Wall Repair (5' minimum per location)	1	Linear Foot	\$ 1,590.00
Coring and Raising Frame and Cover	1	Each	\$ 4,200.00
Jet Filter	1	Each	\$ 1,300.00
Misc. Electric Materials	1	Lump Sum	\$ 2,500.00
Cold Weather Protection	1	Each	\$ 4,000.00
Galvanic Anode Protection	1	Each	\$ 75.00
Exploratory Excavation	1	Hour	\$ 1,300.00
Street Sweeping	1	Each	\$ 1,950.00

Note: Additional Items may apply to each section of the Contract

Section L: Professional Services, Civil Engineering, and Land Surveying	Quantity	Unit	Unit Price
Firm Principal	1	Hour	\$ 275.00
Senior Project Manager	1	Hour	\$ 225.00
Project Manager	1	Hour	\$ 200.00
Coordinator	1	Hour	\$ 150.00

Project surveyor	1	Hour	\$ 145.00
Project engineer	1	Hour	\$ 175.00
Engineering Technician	1	Hour	\$ 125.00
Two person field survey crew	1	Hour	\$ 250.00
One person field survey crew	1	Hour	\$ 150.00
Administrative services	1	Hour	\$ 100.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 1,900.00
27-inch diameter	1	Each	\$ 2,200.00
30-inch diameter	1	Each	\$ 3,700.00
33-inch diameter	1	Each	\$ 3,700.00
36-inch diameter	1	Each	\$ 4,000.00
42-inch diameter	1	Each	\$ 4,200.00
48-inch diameter	1	Each	\$ 4,300.00
54-inch diameter	1	Each	\$ 4,950.00
60-inch diameter	1	Each	\$ 5,500.00
66-inch diameter	1	Each	\$ 7,200.00
72-inch diameter	1	Each	\$ 8,600.00
78-inch diameter	1	Each	\$ 9,600.00
84-inch diameter	1	Each	\$ 10,500.00
96-inch diameter	1	Each	\$ 11,750.00
108-inch diameter	1	Each	\$ 12,500.00
120-inch diameter	1	Each	\$ 13,000.00
132-inch diameter	1	Each	\$ 13,500.00

144-inch diameter	1	Each	\$ 14,250.00
Joint Contraction	1	Linear Foot	\$ 25.00
Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 15.00
10-inch diameter	1	Square Foot	\$ 20.00
12-inch diameter	1	Square Foot	\$ 50.00
15-inch diameter	1	Square Foot	\$ 60.00
18-inch diameter	1	Square Foot	\$ 70.00
24-inch diameter	1	Square Foot	\$ 72.00
30-inch diameter	1	Square Foot	\$ 73.00
36-inch diameter	1	Square Foot	\$ 74.00
42-inch diameter	1	Square Foot	\$ 75.00
48-inch diameter	1	Square Foot	\$ 80.00
54-inch diameter	1	Square Foot	\$ 90.00
60-inch diameter	1	Square Foot	\$ 100.00
66-inch diameter	1	Square Foot	\$ 125.00
72-inch diameter	1	Square Foot	\$ 130.00
78-inch diameter	1	Square Foot	\$ 140.00
84-inch diameter	1	Square Foot	\$ 155.00
Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 5,175.00
36-inch diameter	1	Each	\$ 8,050.00
48-inch diameter	1	Each	\$ 11,500.00
60-inch diameter	1	Each	\$ 16,100.00
72-inch diameter	1	Each	\$ 20,125.00
84-inch diameter	1	Each	\$ 23,000.00
Adjust Structure	1	Each	\$ 3,450.00
Frame and Cover Replace	1	Each	\$ 1,437.50
Structure Reconstruct	1	Vertical Foot	\$ 1,063.75
Drainage Pipe 6-inch	1	Linear Foot	\$ 86.25
French Drains	1	Each	\$ 690.00
Cleaning of Structures	1	Hourly	\$ 488.75
Drainage Structure Tap (up to 24")	1	Each	\$ 2,875.00
Clean and Seal Joints of Structures/box and wall ends	1	Linear Foot	\$ 115.00
Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet (concrete)	1	Each	\$ 3,450.00
21-inch to 30-inch outlet (concrete)	1	Each	\$ 6,900.00
33-inch to 48-inch outlet (concrete)	1	Each	\$ 9,900.00
54-inch to 66-inch outlet (concrete)	1	Each	\$ 15,000.00

12-inch to 18-inch outlet (steel)	1	Each	\$ 2,875.00
21-inch to 30-inch outlet (steel)	1	Each	\$ 4,025.00
33-inch to 48-inch outlet (steel)	1	Each	\$ 8,625.00
54-inch to 66-inch outlet (steel)	1	Each	\$ 11,500.00
Section Q: End wall Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet	1	Each	\$ 6,900.00
21-inch to 30-inch outlet	1	Each	\$ 10,350.00
33-inch to 48-inch outlet	1	Each	\$ 12,650.00
54-inch to 66-inch outlet	1	Each	\$ 18,400.00
Section R: Labor/Equipment	Quantity	Unit	Unit Price
Supervisor	1	Hour	\$ 170.00
Foreman	1	Hour	\$ 150.00
Operator	1	Hour	\$ 140.00
Laborer	1	Hour	\$ 110.00
Finisher	1	Hour	\$ 115.00
Truck Driver	1	Hour	\$ 109.25
Excavator M318 (equiv.)	1	Hour	\$ 279.45
Excavator 325 (equiv.)	1	Hour	\$ 299.00
Excavator 315 (equiv.)	1	Hour	\$ 186.30
Excavator 308 (equiv.)	1	Hour	\$ 166.75
Excavator 305 (equiv.)	1	Hour	\$ 161.00
Loader 936 (equiv.)	1	Hour	\$ 172.50
Backhoe	1	Hour	\$ 92.00
Skid Steer	1	Hour	\$ 86.25
Dump Truck 5 yard (equiv.)	1	Hour	\$ 103.50
Quad Axle semi-dump	1	Hour	\$ 115.00
Gravel Train	1	Hour	\$ 132.25
Lowboy Trailer	1	Hour	\$ 132.25
Foreman Pick-up	1	Hour	\$ 34.50
Jobsite Pick-up	1	Hour	\$ 23.00
Utility Truck w/tools	1	Hour	\$ 92.00
Flatbed Truck	1	Hour	\$ 60.95
Dozer	1	Hour	\$ 258.75
Mini Excavator	1	Hour	\$ 161.00
Hydro-Excavator	1	Hour	\$ 488.75
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 373.75
185 CFM compressor	1	Day	\$ 373.75
Light Tower	1	Day	\$ 345.00

Concrete Saw	1	Day	\$ 345.00
Pipe Saw	1	Day	\$ 80.50

Place Compactor	1	Day	\$ 129.95
Misc. tools (jackhammers/spades/drills)	1	Day	\$ 138.00
Steel plates	1	Day	\$ 230.00
Traffic Barrell	1	Day	\$ 11.50

Section T: Glare Screen Repair	Quantity	Unit	Unit Price
1' to 5'	1	Linear Foot	\$ 2,300.00
6' to 10'	1	Linear Foot	\$ 1,725.00
11' to 15'	1	Linear Foot	\$ 1,150.00
16' to 20'	1	Linear Foot	\$ 862.50

Section U: Auger Bore Installation of Culvert/Drainage (80 foot minimum)	Quantity	Unit	Unit Price
12"	1	Linear Foot	\$ 287.50
15"	1	Linear Foot	\$ 345.00
18"	1	Linear Foot	\$ 450.00
21"	1	Linear Foot	\$ 475.00
24"	1	Linear Foot	\$ 600.00
30"	1	Linear Foot	\$ 900.00
36"	1	Linear Foot	\$ 1,000.00
42"	1	Linear Foot	\$ 1,250.00
48"	1	Linear Foot	\$ 1,500.00
54"	1	Linear Foot	\$ 2,500.00
60"	1	Linear Foot	\$ 2,750.00
66"	1	Linear Foot	\$ 3,000.00
72"	1	Linear Foot	\$ 3,200.00

Section V: Open Cut Repair of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 195.00
10"	1	Linear Foot	\$ 225.00
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 300.00
18"	1	Linear Foot	\$ 400.00
21"	1	Linear Foot	\$ 500.00
24"	1	Linear Foot	\$ 600.00
30"	1	Linear Foot	\$ 750.00
36"	1	Linear Foot	\$ 900.00
42"	1	Linear Foot	\$ 1,000.00
48"	1	Linear Foot	\$ 1,500.00
54"	1	Linear Foot	\$ 1,750.00
60"	1	Linear Foot	\$ 2,500.00

66"	1	Linear Foot	\$ 2,750.00
72"	1	Linear Foot	\$ 3,000.00

Section W: Removal of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 135.00
10"	1	Linear Foot	\$ 165.00
12"	1	Linear Foot	\$ 225.00
15"	1	Linear Foot	\$ 235.00
18"	1	Linear Foot	\$ 240.00
21"	1	Linear Foot	\$ 350.00
24"	1	Linear Foot	\$ 400.00
30"	1	Linear Foot	\$ 440.00
36"	1	Linear Foot	\$ 525.00
42"	1	Linear Foot	\$ 600.00
48"	1	Linear Foot	\$ 750.00
54"	1	Linear Foot	\$ 1,250.00
60"	1	Linear Foot	\$ 1,500.00
66"	1	Linear Foot	\$ 2,000.00
72"	1	Linear Foot	\$ 3,000.00
Section X: Point Repair/Collar	Quantity	Unit	Unit Price
Additional Length up to 10' deep for 8"-24" pipe	1	Each	\$ 200.00
Additional Length up to 10' deep for 27"-48" pipe	1	Each	\$ 225.00
Additional Length up to 15' deep for 8"-24" pipe	1	Each	\$ 400.00
Additional Length up to 15' deep for 27"-48" pipe	1	Each	\$ 500.00
Section Y: Geopolymer Spray Applied Structural Liner	Quantity	Unit	Unit Price
Geopolymer Structural Liner	1	Foot	\$ 100.00
Section Z: Installation of Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 150.00
15"	1	Linear Foot	\$ 175.00
18"	1	Linear Foot	\$ 225.00
21"	1	Linear Foot	\$ 300.00
24"	1	Linear Foot	\$ 350.00
30"	1	Linear Foot	\$ 425.00
36"	1	Linear Foot	\$ 525.00
42"	1	Linear Foot	\$ 625.00
48"	1	Linear Foot	\$ 800.00
54"	1	Linear Foot	\$ 1,000.00

60"	1	Linear Foot	\$ 1,250.00
66"	1	Linear Foot	\$ 1,500.00
72"	1	Linear Foot	\$ 1,650.00
Percentage Adder for Polymer Coating (Apply to Section Items to Supply for Install CMP with Manufacturer Applied Polymer Coating)	1	Percent	\$ 25.00
Section AA: Installation of Polymer Coated Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 175.00
15"	1	Linear Foot	\$ 200.00
18"	1	Linear Foot	\$ 300.00
21"	1	Linear Foot	\$ 350.00
24"	1	Linear Foot	\$ 425.00
30"	1	Linear Foot	\$ 750.00
36"	1	Linear Foot	\$ 800.00
42"	1	Linear Foot	\$ 950.00
48"	1	Linear Foot	\$ 1,100.00
54"	1	Linear Foot	\$ 1,300.00
60"	1	Linear Foot	\$ 1,500.00
66"	1	Linear Foot	\$ 1,800.00
72"	1	Linear Foot	\$ 1,900.00

All unit prices are not to exceed pricing. Vendor must allow for lower pricing to be available for similar product and service purchases.

\$ 641,545.45

Schedule B - Pricing Southwest Region

Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 45.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 50.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 130.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 135.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 140.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 145.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 210.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 210.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 255.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 255.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 360.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 415.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 650.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 1.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 4.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 10.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 11.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 14.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 18.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 25.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 10.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 10.00
Timber Matting for Setup	1	Square Yard	\$ 235.00
Internal Reconnection of service connection by robotic cutter	1	Each	\$ 350.00
Sealing of service connection with chemical grouting after internal reconnection (minimum quantity of 15 to be completed per mobilization)	1	Each	\$ 500.00
Concrete Cloth	1	Square Foot	\$ 25.00

Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)	Quantity	Unit	Unit Price
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 5' from main <15" diameter - No cleanout required	1	Each	\$ 2,000.00
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 20' from main <15" diameter - Cleanout required	1	Each	\$ 2,600.00
4-inch to 6-inch Installation and cure of structural lateral liner from main beyond 20' from main <15" diameter - Cleanout Required	1	Linear Foot	\$ 35.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 35.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 750.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 1,000.00

Section C: CIPP Point Repairs (Prices based on 4' minimum length)	Quantity	Unit	Unit Price
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6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 400.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 450.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 475.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 500.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 525.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 750.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 750.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,000.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,000.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,250.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,250.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,500.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,750.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 2,000.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 2,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 10.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 20.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 25.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 35.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 40.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00

Section D: Polyethylene (PE) Slip Lining - (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 20.00
6-inch diameter	1	Linear Foot	\$ 30.00
8-inch diameter	1	Linear Foot	\$ 40.00
10-inch diameter	1	Linear Foot	\$ 50.00
12-inch diameter	1	Linear Foot	\$ 110.00
18-inch diameter	1	Linear Foot	\$ 125.00
24-inch diameter	1	Linear Foot	\$ 200.00
30-inch diameter	1	Linear Foot	\$ 250.00
36-inch diameter	1	Linear Foot	\$ 350.00
42-inch diameter	1	Linear Foot	\$ 425.00
48-inch diameter	1	Linear Foot	\$ 475.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 340.00
Bulkheads	1	Each	\$ 500.00
Slip Lining Setup	1	Each	\$ 10,000.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
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6-inch diameter	1	Linear Foot	\$ 45.00
8-inch diameter	1	Linear Foot	\$ 55.00
10-inch diameter	1	Linear Foot	\$ 65.00
12-inch diameter	1	Linear Foot	\$ 100.00
14-inch diameter	1	Linear Foot	\$ 115.00
16-inch diameter	1	Linear Foot	\$ 125.00
18-inch diameter	1	Linear Foot	\$ 135.00
20-inch diameter	1	Linear Foot	\$ 175.00
24-inch diameter	1	Linear Foot	\$ 250.00
30-inch diameter	1	Linear Foot	\$ 325.00
36-inch diameter	1	Linear Foot	\$ 375.00
42-inch diameter	1	Linear Foot	\$ 525.00
48-inch diameter	1	Linear Foot	\$ 625.00
54-inch diameter	1	Linear Foot	\$ 750.00
Setup fee per Pipe Bursting segment	1	Each	\$ 10,000.00

Note: Pipe Fusing/Joining in Section J

Section F: Manhole Connections	Quantity	Unit	Unit Price
6-inch diameter	1	Each	\$ 350.00
8-inch diameter	1	Each	\$ 375.00
10-inch diameter	1	Each	\$ 400.00
12-inch diameter	1	Each	\$ 450.00
14-inch diameter	1	Each	\$ 475.00
16-inch diameter	1	Each	\$ 500.00
18-inch diameter	1	Each	\$ 550.00
20-inch diameter	1	Each	\$ 600.00

Section G: Manhole Rehabilitation	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 2,000.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 60.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 60.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 60.00

Section H: Cleaning and Closed Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 45.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
Re-setup for clean & CCTV Inspection due to Point Repairs	1	Each	\$ 425.00
Root Removal	1	Linear Foot	\$ 15.00
Grease Removal	1	Linear Foot	\$ 15.00
Heavy Cleaning (more than three passes)	1	Hour	\$ 495.00

Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,000.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00
Culvert End Cleanout	1	Each	\$ 2,500.00

Section I: Bypass for Culverts and Associated Items	Quantity	Unit	Unit Price
Set Up 4-inch diameter Pump (Per Pump)	1	Each	\$ 750.00
Set Up 6-inch diameter Pump (Per Pump)	1	Each	\$ 1,500.00
Set Up 8-inch diameter Pump (Per Pump)	1	Each	\$ 2,250.00
Set Up 12-inch diameter Pump (Per Pump)	1	Each	\$ 5,000.00
Set Up 4-inch diameter Piping	1	Linear Foot	\$ 50.00
Set Up 6-inch diameter Piping	1	Linear Foot	\$ 75.00
Set Up 8-inch diameter Piping	1	Linear Foot	\$ 100.00
Set Up 12-inch diameter Piping	1	Linear Foot	\$ 150.00
Set Up 18-inch diameter Piping	1	Linear Foot	\$ 200.00
Operate 4-inch diameter Pumping System	1	Day	\$ 1,500.00
Operate 6-inch diameter Pumping System	1	Day	\$ 1,750.00
Operate 8-inch diameter Pumping System	1	Day	\$ 2,500.00
Operate 12-inch diameter Pumping System	1	Day	\$ 3,000.00
Bypass - Driveway Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,500.00
Bypass - Street Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,500.00
Bypass - Street Trenching for 8-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 100.00
Bypass - Street Trenching for 12-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 150.00
Bypass - Street Trenching for 18-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 175.00
Bypass Plan (3rd Party Certified)	1	Each	\$ 3,500.00

Section J: Pipe Fusing/Joining	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 750.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 30.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 50.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 110.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 135.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 160.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 185.00

Section K: Additional Items (As needed per project)	Quantity	Unit	Unit Price
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 20,000.00
Erosion Control	1	Linear Foot	\$ 20.00
Flex-A-Mat	1	Square Foot	\$ 27.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 17.00
Temporary Steel Sheeting	1	Square Foot	\$ 75.00
Turbidity Curtain	1	Linear Foot	\$ 75.00
Inaccessible Outlet/Inlet Locations	1	Each	\$ 5,000.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 25.00
4 to 6 feet deep	1	Cubic Foot	\$ 30.00
6 to 10 feet deep	1	Cubic Foot	\$ 35.00
c) Trench Shoring			

4 to 6 feet deep	1	Trench/week	\$ 750.00
6 to 10 feet deep	1	Trench/week	\$ 1,000.00
d) Surface Restoration			
Sod	1	Square Foot	\$ 10.00
Seed & Mulch	1	Square Foot	\$ 2.00
Straw Matting	1	Square Foot	\$ 1.00
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 40.00
10-inch concrete	1	Square Foot	\$ 45.00
12-inch concrete	1	Square Foot	\$ 50.00
2-inch asphalt	1	Square Foot	\$ 20.00
3-inch asphalt	1	Square Foot	\$ 25.00
4-inch asphalt	1	Square Foot	\$ 40.00
6-inch asphalt	1	Square Foot	\$ 45.00
8-inch asphalt	1	Square Foot	\$ 50.00
10-inch asphalt	1	Square Foot	\$ 55.00
12-inch asphalt	1	Square Foot	\$ 60.00
Saw Cut	1	Linear Foot	\$ 9.00
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 22.00
Ditch Grading	1	Linear Foot	\$ 50.00
HMA Patching	1	Ton	\$ 585.00
Guardrail Remove and Replace	1	Linear Foot	\$ 55.00
Topsoil	1	Cubic Yard	\$ 85.00
Concrete Spillway	1	Linear Foot	\$ 200.00
Geo-Web Slope Restoration	1	Square Yard	\$ 50.00
Watering Vegetation	1	Hour	\$ 225.00
Geo-Fabric	1	Square Yard	\$ 8.00
Concrete Shoulder Gutter	1	Each	\$ 2,000.00
Detectable Warning Surface ADA Tile	1	Square Foot	\$ 30.00
Slope Reinforcement Matting (SRM)	1	Square Foot	\$ 27.00
Slope Paving	1	Square Yard	\$ 250.00
Slope Paving Header	1	Foot	\$ 330.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 75.00
Rip Rap	1	Ton	\$ 200.00
Sand	1	Ton	\$ 60.00
Gravel	1	Ton	\$ 45.00
21AA	1	Ton	\$ 65.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 340.00
Embankment/Class II Fill	1	Cubic Yard	\$ 75.00
Cement Treated Aggregate	1	Ton	\$ 185.00
Dynamic Cone Penetrometer Testing	1	Each	\$ 600.00
Concrete or Asphalt Testing	1	Each	\$ 3,500.00
Aggregate Road Hard Surface	1	Square Yard	\$ 75.00
Concrete grout filled canvas bags	1	Each	\$ 500.00

f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 50.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,450.00
Arrow Board	1	Each Day	\$ 75.00
Traffic Lane Shift	1	Each	\$ 3,500.00
Traffic Control Plan (certified)	1	Each	\$ 1,500.00
Traffic Detour	1	Each	\$ 20,000.00
Message Boards	1	Each Week	\$ 2,900.00
Temporary Traffic Signals delivered/set-up	1	Each	\$ 7,000.00
Temporary Traffic Signals Operational	1	Each Week	\$ 3,500.00
Night Work Lighting	1	Each Day	\$ 1,500.00
g) Miscellaneous			
Tree Removal, 6" to 18" Diameter, with stump removal	1	Each	\$ 1,600.00
Tree Removal, 19" to 36" Diameter, with stump removal	1	Each	\$ 3,400.00
Tree Removal, 37"+ Diameter, with stump removal	1	Each	\$ 4,200.00
Tree Removal, 6" to 18" Diameter, without stump removal	1	Each	\$ 1,200.00
Tree Removal, 19" to 36" Diameter, without stump removal	1	Each	\$ 3,000.00
Tree Removal, 37"+ Diameter, without stump removal	1	Each	\$ 4,000.00
Stump Removal	1	Each	\$ 325.00
Permit Fees	1	Each	\$ 500.00
Water Charges	1	Each	\$ 2,250.00
Disposal Fees	1	Each	\$ 2,250.00
Concrete Barrier Temporary	1	Linear Foot	\$ 200.00
Formed Concrete	1	Cubic Yard	\$ 2,500.00
Slope Paving	1	Square Yard	\$ 250.00
Clearing and grubbing	1	Square Yard	\$ 10.00
Curb and Gutter	1	Linear Foot	\$ 85.00
Barrier Wall Repair (5' minimum per location)	1	Linear Foot	\$ 1,590.00
Coring and Raising Frame and Cover	1	Each	\$ 4,200.00
Jet Filter	1	Each	\$ 1,300.00
Misc. Electric Materials	1	Lump Sum	\$ 2,500.00
Cold Weather Protection	1	Each	\$ 4,000.00
Galvanic Anode Protection	1	Each	\$ 75.00
Exploratory Excavation	1	Hour	\$ 1,300.00
Street Sweeping	1	Each	\$ 1,950.00

Note: Additional Items may apply to each section of the Contract

Section L: Professional Services, Civil Engineering, and Land Surveying	Quantity	Unit	Unit Price
Firm Principal	1	Hour	\$ 275.00
Senior Project Manager	1	Hour	\$ 225.00
Project Manager	1	Hour	\$ 200.00
Coordinator	1	Hour	\$ 150.00
Project surveyor	1	Hour	\$ 145.00
Project engineer	1	Hour	\$ 175.00

Engineering Technician	1	Hour	\$ 125.00
Two person field survey crew	1	Hour	\$ 250.00
One person field survey crew	1	Hour	\$ 150.00
Administrative services	1	Hour	\$ 100.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 1,900.00
27-inch diameter	1	Each	\$ 2,200.00
30-inch diameter	1	Each	\$ 3,700.00
33-inch diameter	1	Each	\$ 3,700.00
36-inch diameter	1	Each	\$ 4,000.00
42-inch diameter	1	Each	\$ 4,200.00
48-inch diameter	1	Each	\$ 4,300.00
54-inch diameter	1	Each	\$ 4,950.00
60-inch diameter	1	Each	\$ 5,500.00
66-inch diameter	1	Each	\$ 7,000.00
72-inch diameter	1	Each	\$ 8,250.00
78-inch diameter	1	Each	\$ 9,000.00
84-inch diameter	1	Each	\$ 9,500.00
96-inch diameter	1	Each	\$ 11,000.00
108-inch diameter	1	Each	\$ 11,750.00
120-inch diameter	1	Each	\$ 12,225.00
132-inch diameter	1	Each	\$ 12,750.00

144-inch diameter	1	Each	\$ 13,500.00
Joint Contraction	1	Linear Foot	\$ 25.00

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 15.00
10-inch diameter	1	Square Foot	\$ 20.00
12-inch diameter	1	Square Foot	\$ 50.00
15-inch diameter	1	Square Foot	\$ 60.00
18-inch diameter	1	Square Foot	\$ 70.00
24-inch diameter	1	Square Foot	\$ 72.00
30-inch diameter	1	Square Foot	\$ 73.00
36-inch diameter	1	Square Foot	\$ 74.00
42-inch diameter	1	Square Foot	\$ 75.00
48-inch diameter	1	Square Foot	\$ 80.00
54-inch diameter	1	Square Foot	\$ 90.00
60-inch diameter	1	Square Foot	\$ 100.00
66-inch diameter	1	Square Foot	\$ 125.00
72-inch diameter	1	Square Foot	\$ 130.00
78-inch diameter	1	Square Foot	\$ 140.00
84-inch diameter	1	Square Foot	\$ 155.00

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 4,500.00
36-inch diameter	1	Each	\$ 6,250.00
48-inch diameter	1	Each	\$ 10,000.00
60-inch diameter	1	Each	\$ 13,000.00
72-inch diameter	1	Each	\$ 15,500.00
84-inch diameter	1	Each	\$ 17,500.00
Adjust Structure	1	Each	\$ 3,000.00
Frame and Cover Replace	1	Each	\$ 1,250.00
Structure Reconstruct	1	Vertical Foot	\$ 925.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 600.00
Cleaning of Structures	1	Hourly	\$ 425.00
Drainage Structure Tap (up to 24")	1	Each	\$ 2,500.00
Clean and Seal Joints of Structures/box and wall ends	1	Linear Foot	\$ 100.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet (concrete)	1	Each	\$ 3,000.00
21-inch to 30-inch outlet (concrete)	1	Each	\$ 5,500.00
33-inch to 48-inch outlet (concrete)	1	Each	\$ 9,500.00
54-inch to 66-inch outlet (concrete)	1	Each	\$ 14,500.00
12-inch to 18-inch outlet (steel)	1	Each	\$ 2,500.00
21-inch to 30-inch outlet (steel)	1	Each	\$ 4,000.00
33-inch to 48-inch outlet (steel)	1	Each	\$ 6,500.00
54-inch to 66-inch outlet (steel)	1	Each	\$ 8,000.00

Section Q: End wall Remove and Replace	Quantity	Unit	Unit Price
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12-inch to 18-inch outlet	1	Each	\$ 5,500.00
21-inch to 30-inch outlet	1	Each	\$ 8,500.00
33-inch to 48-inch outlet	1	Each	\$ 10,500.00
54-inch to 66-inch outlet	1	Each	\$ 15,500.00

Section R: Labor/Equipment	Quantity	Unit	Unit Price
Supervisor	1	Hour	\$ 150.00
Foreman	1	Hour	\$ 145.00
Operator	1	Hour	\$ 125.00
Laborer	1	Hour	\$ 95.00
Finisher	1	Hour	\$ 100.00
Truck Driver	1	Hour	\$ 95.00
Excavator M318 (equiv.)	1	Hour	\$ 243.00
Excavator 325 (equiv.)	1	Hour	\$ 260.00
Excavator 315 (equiv.)	1	Hour	\$ 162.00
Excavator 308 (equiv.)	1	Hour	\$ 145.00
Excavator 305 (equiv.)	1	Hour	\$ 140.00
Loader 936 (equiv.)	1	Hour	\$ 150.00
Backhoe	1	Hour	\$ 80.00
Skid Steer	1	Hour	\$ 75.00
Dump Truck 5 yard (equiv.)	1	Hour	\$ 90.00
Quad Axle semi-dump	1	Hour	\$ 100.00
Gravel Train	1	Hour	\$ 115.00
Lowboy Trailer	1	Hour	\$ 115.00
Foreman Pick-up	1	Hour	\$ 30.00
Jobsite Pick-up	1	Hour	\$ 20.00
Utility Truck w/tools	1	Hour	\$ 80.00
Flatbed Truck	1	Hour	\$ 53.00
Dozer	1	Hour	\$ 225.00
Mini Excavator	1	Hour	\$ 140.00
Hydro-Excavator	1	Hour	\$ 425.00
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 325.00
185 CFM compressor	1	Day	\$ 325.00
Light Tower	1	Day	\$ 300.00
Concrete Saw	1	Day	\$ 300.00
Pipe Saw	1	Day	\$ 70.00

Place Compactor	1	Day	\$ 113.00
Misc. tools (jackhammers/spades/drills)	1	Day	\$ 120.00
Steel plates	1	Day	\$ 200.00
Traffic Barrell	1	Day	\$ 10.00

Section T: Glare Screen Repair	Quantity	Unit	Unit Price
1' to 5'	1	Linear Foot	\$ 2,000.00
6' to 10'	1	Linear Foot	\$ 1,500.00
11' to 15'	1	Linear Foot	\$ 1,000.00
16' to 20'	1	Linear Foot	\$ 750.00

Section U: Auger Bore Installation of Culvert/Drainage (80 foot minimum)	Quantity	Unit	Unit Price
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 300.00
18"	1	Linear Foot	\$ 350.00
21"	1	Linear Foot	\$ 375.00
24"	1	Linear Foot	\$ 500.00
30"	1	Linear Foot	\$ 600.00
36"	1	Linear Foot	\$ 720.00
42"	1	Linear Foot	\$ 840.00
48"	1	Linear Foot	\$ 960.00
54"	1	Linear Foot	\$ 1,080.00
60"	1	Linear Foot	\$ 1,200.00
66"	1	Linear Foot	\$ 1,320.00
72"	1	Linear Foot	\$ 1,440.00

Section V: Open Cut Repair of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 195.00
10"	1	Linear Foot	\$ 225.00
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 275.00
18"	1	Linear Foot	\$ 300.00
21"	1	Linear Foot	\$ 400.00
24"	1	Linear Foot	\$ 500.00
30"	1	Linear Foot	\$ 600.00
36"	1	Linear Foot	\$ 700.00
42"	1	Linear Foot	\$ 800.00
48"	1	Linear Foot	\$ 1,000.00
54"	1	Linear Foot	\$ 1,750.00
60"	1	Linear Foot	\$ 2,500.00
66"	1	Linear Foot	\$ 2,750.00
72"	1	Linear Foot	\$ 3,000.00

Section W: Removal of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 135.00
10"	1	Linear Foot	\$ 165.00
12"	1	Linear Foot	\$ 190.00

15"	1	Linear Foot	\$ 215.00
18"	1	Linear Foot	\$ 240.00
21"	1	Linear Foot	\$ 350.00
24"	1	Linear Foot	\$ 375.00
30"	1	Linear Foot	\$ 440.00
36"	1	Linear Foot	\$ 525.00
42"	1	Linear Foot	\$ 600.00
48"	1	Linear Foot	\$ 750.00
54"	1	Linear Foot	\$ 1,000.00
60"	1	Linear Foot	\$ 1,500.00
66"	1	Linear Foot	\$ 2,000.00
72"	1	Linear Foot	\$ 3,000.00
Section X: Point Repair/Collar	Quantity	Unit	Unit Price
Additional Length up to 10' deep for 8"-24" pipe	1	Each	\$ 200.00
Additional Length up to 10' deep for 27"-48" pipe	1	Each	\$ 225.00
Additional Length up to 15' deep for 8"-24" pipe	1	Each	\$ 400.00
Additional Length up to 15' deep for 27"-48" pipe	1	Each	\$ 500.00
Section Y: Geopolymer Spray Applied Structural Liner	Quantity	Unit	Unit Price
Geopolymer Structural Liner	1	Foot	\$ 100.00
Section Z: Installation of Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 125.00
15"	1	Linear Foot	\$ 150.00
18"	1	Linear Foot	\$ 200.00
21"	1	Linear Foot	\$ 225.00
24"	1	Linear Foot	\$ 300.00
30"	1	Linear Foot	\$ 350.00
36"	1	Linear Foot	\$ 425.00
42"	1	Linear Foot	\$ 525.00
48"	1	Linear Foot	\$ 625.00
54"	1	Linear Foot	\$ 800.00
60"	1	Linear Foot	\$ 1,000.00
66"	1	Linear Foot	\$ 1,250.00
72"	1	Linear Foot	\$ 1,500.00
Percentage Adder for Polymer Coating (Apply to Section Items to Supply for Install CMP with Manufacturer Applied Polymer Coating)	1	Percent	\$ 25.00
Section AA: Installation of Polymer Coated Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 125.00
15"	1	Linear Foot	\$ 150.00
18"	1	Linear Foot	\$ 200.00
21"	1	Linear Foot	\$ 225.00

24"	1	Linear Foot	\$ 300.00
30"	1	Linear Foot	\$ 350.00
36"	1	Linear Foot	\$ 425.00
42"	1	Linear Foot	\$ 525.00
48"	1	Linear Foot	\$ 625.00
54"	1	Linear Foot	\$ 800.00
60"	1	Linear Foot	\$ 1,000.00
66"	1	Linear Foot	\$ 1,250.00
72"	1	Linear Foot	\$ 1,500.00

All unit prices are not to exceed pricing. Contractor must allow for lower pricing to be available for similar product and service purchases.

\$ 562,665.00

Schedule B - Pricing Superior Region

Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 67.50
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 75.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 142.50
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 195.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 202.50
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 210.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 217.50
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 315.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 315.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 382.50
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 382.50
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 540.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 622.50
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 787.50
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 975.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 1.50
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 6.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 7.50
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 15.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 16.50
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 18.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 18.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 21.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 27.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 37.50
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 15.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 15.00
Timber Matting for Setup	1	Square Yard	\$ 352.50
Internal Reconnection of service connection by robotic cutter	1	Each	\$ 525.00
Sealing of service connection with chemical grouting after internal reconnection (minimum quantity of 15 to be completed per mobilization)	1	Each	\$ 750.00
Concrete Cloth	1	Square Foot	\$ 37.50

Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)	Quantity	Unit	Unit Price
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 5' from main <15" diameter - No cleanout required	1	Each	\$ 3,000.00
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 20' from main <15" diameter - Cleanout required	1	Each	\$ 3,900.00
4-inch to 6-inch Installation and cure of structural lateral liner from main beyond 20' from main <15" diameter - Cleanout Required	1	Linear Foot	\$ 52.50
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 52.50
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 1,125.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 1,500.00

Section C: CIPP Point Repairs (Prices based on 4' minimum length)	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 600.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 675.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 712.50
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 750.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 787.50
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,125.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,125.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,500.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,500.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,875.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,875.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 2,250.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 2,625.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 3,000.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 3,375.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 15.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 37.50
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 52.50
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 60.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 67.50
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 75.00

Section D: Polyethylene (PE) Slip Lining - (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 30.00
6-inch diameter	1	Linear Foot	\$ 45.00
8-inch diameter	1	Linear Foot	\$ 60.00
10-inch diameter	1	Linear Foot	\$ 75.00
12-inch diameter	1	Linear Foot	\$ 165.00
18-inch diameter	1	Linear Foot	\$ 187.50
24-inch diameter	1	Linear Foot	\$ 300.00
30-inch diameter	1	Linear Foot	\$ 375.00
36-inch diameter	1	Linear Foot	\$ 525.00
42-inch diameter	1	Linear Foot	\$ 637.50
48-inch diameter	1	Linear Foot	\$ 712.50
54-inch diameter	1	Linear Foot	\$ 750.00
Annular Space - Grouting	1	Cubic Yard	\$ 510.00
Bulkheads	1	Each	\$ 750.00
Slip Lining Setup	1	Each	\$ 15,000.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$ 67.50
8-inch diameter	1	Linear Foot	\$ 82.50
10-inch diameter	1	Linear Foot	\$ 97.50
12-inch diameter	1	Linear Foot	\$ 150.00
14-inch diameter	1	Linear Foot	\$ 172.50
16-inch diameter	1	Linear Foot	\$ 187.50
18-inch diameter	1	Linear Foot	\$ 202.50
20-inch diameter	1	Linear Foot	\$ 262.50
24-inch diameter	1	Linear Foot	\$ 375.00
30-inch diameter	1	Linear Foot	\$ 487.50
36-inch diameter	1	Linear Foot	\$ 562.50
42-inch diameter	1	Linear Foot	\$ 787.50
48-inch diameter	1	Linear Foot	\$ 937.50
54-inch diameter	1	Linear Foot	\$ 1,125.00
Setup fee per Pipe Bursting segment	1	Each	\$ 15,000.00

Note: Pipe Fusing/Joining in Section J

Section F: Manhole Connections	Quantity	Unit	Unit Price
6-inch diameter	1	Each	\$ 525.00
8-inch diameter	1	Each	\$ 562.50
10-inch diameter	1	Each	\$ 600.00
12-inch diameter	1	Each	\$ 675.00
14-inch diameter	1	Each	\$ 712.50
16-inch diameter	1	Each	\$ 750.00
18-inch diameter	1	Each	\$ 825.00
20-inch diameter	1	Each	\$ 900.00

Section G: Manhole Rehabilitation	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 3,000.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 1,125.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 90.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 90.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 90.00

Section H: Cleaning and Closed Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$ 37.50
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 45.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 52.50
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 60.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 67.50
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 7.50
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 7.50
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 7.50
Re-setup for clean & CCTV Inspection due to Point Repairs	1	Each	\$ 637.50

Root Removal	1	Linear Foot	\$ 22.50
Grease Removal	1	Linear Foot	\$ 22.50
Heavy Cleaning (more than three passes)	1	Hour	\$ 742.50
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$ 7.50
Culvert End Cleanout	1	Each	\$ 3,750.00

Section I: Bypass for Culverts and Associated Items	Quantity	Unit	Unit Price
Set Up 4-inch diameter Pump (Per Pump)	1	Each	\$ 1,125.00
Set Up 6-inch diameter Pump (Per Pump)	1	Each	\$ 2,250.00
Set Up 8-inch diameter Pump (Per Pump)	1	Each	\$ 3,375.00
Set Up 12-inch diameter Pump (Per Pump)	1	Each	\$ 7,500.00
Set Up 4-inch diameter Piping	1	Linear Foot	\$ 75.00
Set Up 6-inch diameter Piping	1	Linear Foot	\$ 112.50
Set Up 8-inch diameter Piping	1	Linear Foot	\$ 150.00
Set Up 12-inch diameter Piping	1	Linear Foot	\$ 225.00
Set Up 18-inch diameter Piping	1	Linear Foot	\$ 300.00
Operate 4-inch diameter Pumping System	1	Day	\$ 2,250.00
Operate 6-inch diameter Pumping System	1	Day	\$ 2,625.00
Operate 8-inch diameter Pumping System	1	Day	\$ 3,750.00
Operate 12-inch diameter Pumping System	1	Day	\$ 4,500.00
Bypass - Driveway Ramp (Setup, Operate, Maintain)	1	Each	\$ 2,250.00
Bypass - Street Ramp (Setup, Operate, Maintain)	1	Each	\$ 2,250.00
Bypass - Street Trenching for 8-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 150.00
Bypass - Street Trenching for 12-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 225.00
Bypass - Street Trenching for 18-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 262.50
Bypass Plan (3rd Party Certified)	1	Each	\$ 5,250.00

Section J: Pipe Fusing/Joining	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 1,125.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 45.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 75.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 165.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 202.50
43-inch thru 48-inch diameter	1	Linear Foot	\$ 240.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 277.50

Section K: Additional Items (As needed per project)	Quantity	Unit	Unit Price
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 30,000.00
Erosion Control	1	Linear Foot	\$ 30.00
Flex-A-Mat	1	Square Foot	\$ 40.50
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 25.50
Temporary Steel Sheet piling	1	Square Foot	\$ 112.50
Turbidity Curtain	1	Linear Foot	\$ 112.50
Inaccessible Outlet/Inlet Locations	1	Each	\$ 7,500.00
b) Excavation/Backfill			

0 to 4 feet deep	1	Cubic Foot	\$ 37.50
4 to 6 feet deep	1	Cubic Foot	\$ 45.00
6 to 10 feet deep	1	Cubic Foot	\$ 52.50
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 1,125.00
6 to 10 feet deep	1	Trench/week	\$ 1,500.00
d) Surface Restoration			
Sod	1	Square Foot	\$ 15.00
Seed & Mulch	1	Square Foot	\$ 3.00
Straw Matting	1	Square Foot	\$ 1.50
4-inch concrete	1	Square Foot	\$ 37.50
6-inch concrete	1	Square Foot	\$ 45.00
8-inch concrete	1	Square Foot	\$ 60.00
10-inch concrete	1	Square Foot	\$ 67.50
12-inch concrete	1	Square Foot	\$ 75.00
2-inch asphalt	1	Square Foot	\$ 37.50
3-inch asphalt	1	Square Foot	\$ 45.00
4-inch asphalt	1	Square Foot	\$ 60.00
6-inch asphalt	1	Square Foot	\$ 67.50
8-inch asphalt	1	Square Foot	\$ 75.00
10-inch asphalt	1	Square Foot	\$ 82.50
12-inch asphalt	1	Square Foot	\$ 90.00
Saw Cut	1	Linear Foot	\$ 13.50
Curb	1	Linear Foot	\$ 142.50
Slope Restoration	1	Square Yard	\$ 33.00
Ditch Grading	1	Linear Foot	\$ 75.00
HMA Patching	1	Ton	\$ 900.00
Guardrail Remove and Replace	1	Linear Foot	\$ 82.50
Topsoil	1	Cubic Yard	\$ 127.50
Concrete Spillway	1	Linear Foot	\$ 300.00
Geo-Web Slope Restoration	1	Square Yard	\$ 75.00
Watering Vegetation	1	Hour	\$ 337.50
Geo-Fabric	1	Square Yard	\$ 12.00
Concrete Shoulder Gutter	1	Each	\$ 3,000.00
Detectable Warning Surface ADA Tile	1	Square Foot	\$ 90.00
Slope Reinforcement Matting (SRM)	1	Square Foot	\$ 40.50
Slope Paving	1	Square Yard	\$ 375.00
Slope Paving Header	1	Foot	\$ 495.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 112.50
Rip Rap	1	Ton	\$ 375.00
Sand	1	Ton	\$ 90.00
Gravel	1	Ton	\$ 90.00
21AA	1	Ton	\$ 97.50
Flowable Fill (Voids)	1	Cubic Yard	\$ 510.00
Embankment/Class II Fill	1	Cubic Yard	\$ 112.50

Cement Treated Aggregate	1	Ton	\$ 277.50
Dynamic Cone Penetrometer Testing	1	Each	\$ 900.00
Concrete or Asphalt Testing	1	Each	\$ 5,250.00
Aggregate Road Hard Surface	1	Square Yard	\$ 112.50
Concrete grout filled canvas bags	1	Each	\$ 750.00
f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 75.00
Flagmen	1	Hour	\$ 360.00
Attenuator Vehicle	1	Each Day	\$ 2,175.00
Arrow Board	1	Each Day	\$ 112.50
Traffic Lane Shift	1	Each	\$ 5,250.00
Traffic Control Plan (certified)	1	Each	\$ 2,250.00
Traffic Detour	1	Each	\$ 30,000.00
Message Boards	1	Each Week	\$ 4,350.00
Temporary Traffic Signals delivered/set-up	1	Each	\$ 10,500.00
Temporary Traffic Signals Operational	1	Each Week	\$ 5,250.00
Night Work Lighting	1	Each Day	\$ 2,250.00
g) Miscellaneous			
Tree Removal, 6" to 18" Diameter, with stump removal	1	Each	\$ 2,400.00
Tree Removal, 19" to 36" Diameter, with stump removal	1	Each	\$ 5,250.00
Tree Removal, 37"+ Diameter, with stump removal	1	Each	\$ 9,750.00
Tree Removal, 6" to 18" Diameter, without stump removal	1	Each	\$ 1,800.00
Tree Removal, 19" to 36" Diameter, without stump removal	1	Each	\$ 4,500.00
Tree Removal, 37"+ Diameter, without stump removal	1	Each	\$ 7,500.00
Stump Removal	1	Each	\$ 1,200.00
Permit Fees	1	Each	\$ 750.00
Water Charges	1	Each	\$ 3,375.00
Disposal Fees	1	Each	\$ 3,375.00
Concrete Barrier Temporary	1	Linear Foot	\$ 300.00
Formed Concrete	1	Cubic Yard	\$ 3,750.00
Slope Paving	1	Square Yard	\$ 375.00
Clearing and grubbing	1	Square Yard	\$ 15.00
Curb and Gutter	1	Linear Foot	\$ 135.00
Barrier Wall Repair (5' minimum per location)	1	Linear Foot	\$ 2,625.00
Coring and Raising Frame and Cover	1	Each	\$ 10,800.00
Jet Filter	1	Each	\$ 1,950.00
Misc. Electric Materials	1	Lump Sum	\$ 3,750.00
Cold Weather Protection	1	Each	\$ 8,250.00
Galvanic Anode Protection	1	Each	\$ 112.50
Exploratory Excavation	1	Hour	\$ 1,950.00
Street Sweeping	1	Each	\$ 3,000.00

Note: Additional Items may apply to each section of the Contract

Section L: Professional Services, Civil Engineering, and Land Surveying	Quantity	Unit	Unit Price
Firm Principal	1	Hour	\$ 412.50
Senior Project Manager	1	Hour	\$ 337.50

Project Manager	1	Hour	\$ 300.00
Coordinator	1	Hour	\$ 225.00
Project surveyor	1	Hour	\$ 217.50
Project engineer	1	Hour	\$ 262.50
Engineering Technician	1	Hour	\$ 187.50
Two person field survey crew	1	Hour	\$ 375.00
One person field survey crew	1	Hour	\$ 225.00
Administrative services	1	Hour	\$ 150.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 2,850.00
27-inch diameter	1	Each	\$ 3,300.00
30-inch diameter	1	Each	\$ 5,550.00
33-inch diameter	1	Each	\$ 5,550.00
36-inch diameter	1	Each	\$ 6,000.00
42-inch diameter	1	Each	\$ 6,300.00
48-inch diameter	1	Each	\$ 6,450.00
54-inch diameter	1	Each	\$ 7,425.00
60-inch diameter	1	Each	\$ 8,250.00
66-inch diameter	1	Each	\$ 10,500.00
72-inch diameter	1	Each	\$ 12,375.00
78-inch diameter	1	Each	\$ 13,500.00
84-inch diameter	1	Each	\$ 14,250.00
96-inch diameter	1	Each	\$ 16,500.00
108-inch diameter	1	Each	\$ 17,625.00
120-inch diameter	1	Each	\$ 18,337.50
132-inch diameter	1	Each	\$ 19,125.00

144-inch diameter	1	Each	\$ 20,250.00
Joint Contraction	1	Linear Foot	\$ 37.50

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 22.50
10-inch diameter	1	Square Foot	\$ 30.00
12-inch diameter	1	Square Foot	\$ 75.00
15-inch diameter	1	Square Foot	\$ 90.00
18-inch diameter	1	Square Foot	\$ 105.00
24-inch diameter	1	Square Foot	\$ 108.00
30-inch diameter	1	Square Foot	\$ 109.50
36-inch diameter	1	Square Foot	\$ 111.00
42-inch diameter	1	Square Foot	\$ 112.50
48-inch diameter	1	Square Foot	\$ 120.00
54-inch diameter	1	Square Foot	\$ 135.00
60-inch diameter	1	Square Foot	\$ 150.00
66-inch diameter	1	Square Foot	\$ 187.50
72-inch diameter	1	Square Foot	\$ 195.00
78-inch diameter	1	Square Foot	\$ 210.00
84-inch diameter	1	Square Foot	\$ 232.50

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 6,750.00
36-inch diameter	1	Each	\$ 10,500.00
48-inch diameter	1	Each	\$ 15,000.00
60-inch diameter	1	Each	\$ 21,000.00
72-inch diameter	1	Each	\$ 26,250.00
84-inch diameter	1	Each	\$ 30,000.00
Adjust Structure	1	Each	\$ 4,500.00
Frame and Cover Replace	1	Each	\$ 1,875.00
Structure Reconstruct	1	Vertical Foot	\$ 1,387.50
Drainage Pipe 6-inch	1	Linear Foot	\$ 112.50
French Drains	1	Each	\$ 900.00
Cleaning of Structures	1	Hourly	\$ 637.50
Drainage Structure Tap (up to 24")	1	Each	\$ 3,750.00
Clean and Seal Joints of Structures/box and wall ends	1	Linear Foot	\$ 150.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet (concrete)	1	Each	\$ 4,500.00
21-inch to 30-inch outlet (concrete)	1	Each	\$ 9,000.00
33-inch to 48-inch outlet (concrete)	1	Each	\$ 15,000.00
54-inch to 66-inch outlet (concrete)	1	Each	\$ 24,000.00
12-inch to 18-inch outlet (steel)	1	Each	\$ 3,750.00
21-inch to 30-inch outlet (steel)	1	Each	\$ 5,250.00
33-inch to 48-inch outlet (steel)	1	Each	\$ 11,250.00
54-inch to 66-inch outlet (steel)	1	Each	\$ 15,000.00

Section Q: End wall Remove and Replace	Quantity	Unit	Unit Price
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12-inch to 18-inch outlet	1	Each	\$ 9,000.00
21-inch to 30-inch outlet	1	Each	\$ 13,500.00
33-inch to 48-inch outlet	1	Each	\$ 16,500.00
54-inch to 66-inch outlet	1	Each	\$ 24,000.00

Section R: Labor/Equipment	Quantity	Unit	Unit Price
Supervisor	1	Hour	\$ 225.00
Foreman	1	Hour	\$ 217.50
Operator	1	Hour	\$ 187.50
Laborer	1	Hour	\$ 142.50
Finisher	1	Hour	\$ 150.00
Truck Driver	1	Hour	\$ 142.50
Excavator M318 (equiv.)	1	Hour	\$ 364.50
Excavator 325 (equiv.)	1	Hour	\$ 390.00
Excavator 315 (equiv.)	1	Hour	\$ 243.00
Excavator 308 (equiv.)	1	Hour	\$ 217.50
Excavator 305 (equiv.)	1	Hour	\$ 210.00
Loader 936 (equiv.)	1	Hour	\$ 225.00
Backhoe	1	Hour	\$ 120.00
Skid Steer	1	Hour	\$ 112.50
Dump Truck 5 yard (equiv.)	1	Hour	\$ 135.00
Quad Axle semi-dump	1	Hour	\$ 150.00
Gravel Train	1	Hour	\$ 172.50
Lowboy Trailer	1	Hour	\$ 172.50
Foreman Pick-up	1	Hour	\$ 45.00
Jobsite Pick-up	1	Hour	\$ 30.00
Utility Truck w/tools	1	Hour	\$ 120.00
Flatbed Truck	1	Hour	\$ 79.50
Dozer	1	Hour	\$ 337.50
Mini Excavator	1	Hour	\$ 210.00
Hydro-Excavator	1	Hour	\$ 637.50
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 487.50
185 CFM compressor	1	Day	\$ 487.50
Light Tower	1	Day	\$ 450.00
Concrete Saw	1	Day	\$ 450.00
Pipe Saw	1	Day	\$ 105.00

Place Compactor	1	Day	\$ 169.50
Misc. tools (jackhammers/spades/drills)	1	Day	\$ 180.00
Steel plates	1	Day	\$ 300.00
Traffic Barrell	1	Day	\$ 15.00

Section T: Glare Screen Repair	Quantity	Unit	Unit Price
1' to 5'	1	Linear Foot	\$ 3,000.00
6' to 10'	1	Linear Foot	\$ 2,250.00
11' to 15'	1	Linear Foot	\$ 1,500.00
16' to 20'	1	Linear Foot	\$ 1,125.00

Section U: Auger Bore Installation of Culvert/Drainage (80 foot minimum)	Quantity	Unit	Unit Price
12"	1	Linear Foot	\$ 375.00
15"	1	Linear Foot	\$ 450.00
18"	1	Linear Foot	\$ 525.00
21"	1	Linear Foot	\$ 562.50
24"	1	Linear Foot	\$ 750.00
30"	1	Linear Foot	\$ 900.00
36"	1	Linear Foot	\$ 1,080.00
42"	1	Linear Foot	\$ 1,260.00
48"	1	Linear Foot	\$ 1,440.00
54"	1	Linear Foot	\$ 1,620.00
60"	1	Linear Foot	\$ 1,800.00
66"	1	Linear Foot	\$ 1,980.00
72"	1	Linear Foot	\$ 2,160.00

Section V: Open Cut Repair of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 300.00
10"	1	Linear Foot	\$ 337.50
12"	1	Linear Foot	\$ 375.00
15"	1	Linear Foot	\$ 412.50
18"	1	Linear Foot	\$ 450.00
21"	1	Linear Foot	\$ 600.00
24"	1	Linear Foot	\$ 750.00
30"	1	Linear Foot	\$ 900.00
36"	1	Linear Foot	\$ 1,050.00
42"	1	Linear Foot	\$ 1,200.00
48"	1	Linear Foot	\$ 1,500.00
54"	1	Linear Foot	\$ 3,000.00
60"	1	Linear Foot	\$ 3,750.00
66"	1	Linear Foot	\$ 4,500.00
72"	1	Linear Foot	\$ 5,250.00

Section W: Removal of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 202.50
10"	1	Linear Foot	\$ 247.50

12"	1	Linear Foot	\$ 285.00
15"	1	Linear Foot	\$ 322.50
18"	1	Linear Foot	\$ 360.00
21"	1	Linear Foot	\$ 525.00
24"	1	Linear Foot	\$ 562.50
30"	1	Linear Foot	\$ 660.00
36"	1	Linear Foot	\$ 787.50
42"	1	Linear Foot	\$ 900.00
48"	1	Linear Foot	\$ 1,125.00
54"	1	Linear Foot	\$ 1,500.00
60"	1	Linear Foot	\$ 2,250.00
66"	1	Linear Foot	\$ 3,000.00
72"	1	Linear Foot	\$ 4,500.00
Section X: Point Repair/Collar	Quantity	Unit	Unit Price
Additional Length up to 10' deep for 8"-24" pipe	1	Each	\$ 300.00
Additional Length up to 10' deep for 27"-48" pipe	1	Each	\$ 337.50
Additional Length up to 15' deep for 8"-24" pipe	1	Each	\$ 600.00
Additional Length up to 15' deep for 27"-48" pipe	1	Each	\$ 750.00
Section Y: Geopolymer Spray Applied Structural Liner	Quantity	Unit	Unit Price
Geopolymer Structural Liner	1	Foot	\$ 225.00
Section Z: Installation of Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 292.50
10"	1	Linear Foot	\$ 337.50
12"	1	Linear Foot	\$ 375.00
15"	1	Linear Foot	\$ 412.50
18"	1	Linear Foot	\$ 450.00
21"	1	Linear Foot	\$ 600.00
24"	1	Linear Foot	\$ 750.00
30"	1	Linear Foot	\$ 900.00
36"	1	Linear Foot	\$ 1,050.00
42"	1	Linear Foot	\$ 1,200.00
48"	1	Linear Foot	\$ 1,500.00
54"	1	Linear Foot	\$ 2,250.00
60"	1	Linear Foot	\$ 3,000.00
66"	1	Linear Foot	\$ 3,750.00
72"	1	Linear Foot	\$ 4,500.00
Percentage Adder for Polymer Coating (Apply to Section Items to Supply for Install CMP with Manufacturer Applied Polymer Coating)	1	Percent	\$ 37.50
Section AA: Installation of Polymer Coated Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 337.50
10"	1	Linear Foot	\$ 388.50
12"	1	Linear Foot	\$ 432.00
15"	1	Linear Foot	\$ 475.50
18"	1	Linear Foot	\$ 517.50

21"	1	Linear Foot	\$ 690.00
24"	1	Linear Foot	\$ 862.50
30"	1	Linear Foot	\$ 885.00
36"	1	Linear Foot	\$ 1,207.50
42"	1	Linear Foot	\$ 1,380.00
48"	1	Linear Foot	\$ 1,725.00
54"	1	Linear Foot	\$ 2,587.50
60"	1	Linear Foot	\$ 3,450.00
66"	1	Linear Foot	\$ 4,312.50
72"	1	Linear Foot	\$ 5,175.00

All unit prices are not to exceed pricing. Contractor must allow for lower pricing to be available for similar product and service purchases.

\$ 901,318.50

Schedule B - Pricing University Region

Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 45.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 50.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 130.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 135.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 140.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 145.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 210.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 210.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 255.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 255.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 360.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 415.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 650.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 1.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 4.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 10.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 11.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 12.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 14.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 18.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 25.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 10.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 10.00
Timber Matting for Setup	1	Square Yard	\$ 235.00
Internal Reconnection of service connection by robotic cutter	1	Each	\$ 350.00
Sealing of service connection with chemical grouting after internal reconnection (minimum quantity of 15 to be completed per mobilization)	1	Each	\$ 500.00
Concrete Cloth	1	Square Foot	\$ 25.00

Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)	Quantity	Unit	Unit Price
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 5' from main <15" diameter - No cleanout required	1	Each	\$ 2,000.00
4-inch to 6-inch Internal installation and cure of top hat shaped structure up to 20' from main <15" diameter - Cleanout required	1	Each	\$ 2,600.00
4-inch to 6-inch Installation and cure of structural lateral liner from main beyond 20' from main <15" diameter - Cleanout Required	1	Linear Foot	\$ 35.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 35.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 750.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 1,000.00

Section C: CIPP Point Repairs (Prices based on 4' minimum length)	Quantity	Unit	Unit Price
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$ 400.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 450.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 475.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 500.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 525.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 750.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 750.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,000.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,000.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,250.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,250.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,500.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,750.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 2,000.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 2,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 10.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 20.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 25.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 30.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 35.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 40.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00

Section D: Polyethylene (PE) Slip Lining - (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 20.00
6-inch diameter	1	Linear Foot	\$ 30.00
8-inch diameter	1	Linear Foot	\$ 40.00
10-inch diameter	1	Linear Foot	\$ 50.00
12-inch diameter	1	Linear Foot	\$ 110.00
18-inch diameter	1	Linear Foot	\$ 125.00
24-inch diameter	1	Linear Foot	\$ 200.00
30-inch diameter	1	Linear Foot	\$ 250.00
36-inch diameter	1	Linear Foot	\$ 350.00
42-inch diameter	1	Linear Foot	\$ 425.00
48-inch diameter	1	Linear Foot	\$ 475.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 340.00
Bulkheads	1	Each	\$ 500.00
Slip Lining Setup	1	Each	\$ 10,000.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$ 45.00
8-inch diameter	1	Linear Foot	\$ 55.00
10-inch diameter	1	Linear Foot	\$ 65.00
12-inch diameter	1	Linear Foot	\$ 100.00
14-inch diameter	1	Linear Foot	\$ 115.00
16-inch diameter	1	Linear Foot	\$ 125.00
18-inch diameter	1	Linear Foot	\$ 135.00
20-inch diameter	1	Linear Foot	\$ 175.00
24-inch diameter	1	Linear Foot	\$ 250.00
30-inch diameter	1	Linear Foot	\$ 325.00
36-inch diameter	1	Linear Foot	\$ 375.00
42-inch diameter	1	Linear Foot	\$ 525.00
48-inch diameter	1	Linear Foot	\$ 625.00
54-inch diameter	1	Linear Foot	\$ 750.00
Setup fee per Pipe Bursting segment	1	Each	\$ 10,000.00

Note: Pipe Fusing/Joining in Section J

Section F: Manhole Connections	Quantity	Unit	Unit Price
6-inch diameter	1	Each	\$ 350.00
8-inch diameter	1	Each	\$ 375.00
10-inch diameter	1	Each	\$ 400.00
12-inch diameter	1	Each	\$ 450.00
14-inch diameter	1	Each	\$ 475.00
16-inch diameter	1	Each	\$ 500.00
18-inch diameter	1	Each	\$ 550.00
20-inch diameter	1	Each	\$ 600.00

Section G: Manhole Rehabilitation	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 2,000.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 60.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 60.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 60.00

Section H: Cleaning and Closed Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)	Quantity	Unit	Unit Price
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 45.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 5.00
Re-setup for clean & CCTV Inspection due to Point Repairs	1	Each	\$ 425.00

Root Removal	1	Linear Foot	\$ 15.00
Grease Removal	1	Linear Foot	\$ 15.00
Heavy Cleaning (more than three passes)	1	Hour	\$ 495.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,000.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00
Culvert End Cleanout	1	Each	\$ 2,500.00

Section I: Bypass for Culverts and Associated Items	Quantity	Unit	Unit Price
Set Up 4-inch diameter Pump (Per Pump)	1	Each	\$ 750.00
Set Up 6-inch diameter Pump (Per Pump)	1	Each	\$ 1,500.00
Set Up 8-inch diameter Pump (Per Pump)	1	Each	\$ 2,250.00
Set Up 12-inch diameter Pump (Per Pump)	1	Each	\$ 5,000.00
Set Up 4-inch diameter Piping	1	Linear Foot	\$ 50.00
Set Up 6-inch diameter Piping	1	Linear Foot	\$ 75.00
Set Up 8-inch diameter Piping	1	Linear Foot	\$ 100.00
Set Up 12-inch diameter Piping	1	Linear Foot	\$ 150.00
Set Up 18-inch diameter Piping	1	Linear Foot	\$ 200.00
Operate 4-inch diameter Pumping System	1	Day	\$ 1,500.00
Operate 6-inch diameter Pumping System	1	Day	\$ 1,750.00
Operate 8-inch diameter Pumping System	1	Day	\$ 2,500.00
Operate 12-inch diameter Pumping System	1	Day	\$ 3,000.00
Bypass - Driveway Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,500.00
Bypass - Street Ramp (Setup, Operate, Maintain)	1	Each	\$ 1,500.00
Bypass - Street Trenching for 8-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 100.00
Bypass - Street Trenching for 12-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 150.00
Bypass - Street Trenching for 18-inch diameter Pipe (Setup, Operate, Maintain)	1	Linear Foot	\$ 175.00
Bypass Plan (3rd Party Certified)	1	Each	\$ 3,500.00

Section J: Pipe Fusing/Joining	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 750.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 30.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 50.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 110.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 135.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 160.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 185.00

Section K: Additional Items (As needed per project)	Quantity	Unit	Unit Price
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 20,000.00
Erosion Control	1	Linear Foot	\$ 20.00
Flex-A-Mat	1	Square Foot	\$ 27.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 17.00
Temporary Steel Sheet piling	1	Square Foot	\$ 75.00
Turbidity Curtain	1	Linear Foot	\$ 75.00
Inaccessible Outlet/Inlet Locations	1	Each	\$ 5,000.00
b) Excavation/Backfill			

0 to 4 feet deep	1	Cubic Foot	\$ 25.00
4 to 6 feet deep	1	Cubic Foot	\$ 30.00
6 to 10 feet deep	1	Cubic Foot	\$ 35.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 750.00
6 to 10 feet deep	1	Trench/week	\$ 1,000.00
d) Surface Restoration			
Sod	1	Square Foot	\$ 10.00
Seed & Mulch	1	Square Foot	\$ 2.00
Straw Matting	1	Square Foot	\$ 1.00
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 40.00
10-inch concrete	1	Square Foot	\$ 45.00
12-inch concrete	1	Square Foot	\$ 50.00
2-inch asphalt	1	Square Foot	\$ 20.00
3-inch asphalt	1	Square Foot	\$ 25.00
4-inch asphalt	1	Square Foot	\$ 40.00
6-inch asphalt	1	Square Foot	\$ 45.00
8-inch asphalt	1	Square Foot	\$ 50.00
10-inch asphalt	1	Square Foot	\$ 55.00
12-inch asphalt	1	Square Foot	\$ 60.00
Saw Cut	1	Linear Foot	\$ 9.00
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 22.00
Ditch Grading	1	Linear Foot	\$ 50.00
HMA Patching	1	Ton	\$ 585.00
Guardrail Remove and Replace	1	Linear Foot	\$ 55.00
Topsoil	1	Cubic Yard	\$ 85.00
Concrete Spillway	1	Linear Foot	\$ 200.00
Geo-Web Slope Restoration	1	Square Yard	\$ 50.00
Watering Vegetation	1	Hour	\$ 225.00
Geo-Fabric	1	Square Yard	\$ 8.00
Concrete Shoulder Gutter	1	Each	\$ 2,000.00
Detectable Warning Surface ADA Tile	1	Square Foot	\$ 30.00
Slope Reinforcement Matting (SRM)	1	Square Foot	\$ 27.00
Slope Paving	1	Square Yard	\$ 250.00
Slope Paving Header	1	Foot	\$ 330.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 75.00
Rip Rap	1	Ton	\$ 200.00
Sand	1	Ton	\$ 60.00
Gravel	1	Ton	\$ 45.00
21AA	1	Ton	\$ 65.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 340.00
Embankment/Class II Fill	1	Cubic Yard	\$ 75.00

Cement Treated Aggregate	1	Ton	\$ 185.00
Dynamic Cone Penetrometer Testing	1	Each	\$ 600.00
Concrete or Asphalt Testing	1	Each	\$ 3,500.00
Aggregate Road Hard Surface	1	Square Yard	\$ 75.00
Concrete grout filled canvas bags	1	Each	\$ 500.00
f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 50.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,450.00
Arrow Board	1	Each Day	\$ 75.00
Traffic Lane Shift	1	Each	\$ 3,500.00
Traffic Control Plan (certified)	1	Each	\$ 1,500.00
Traffic Detour	1	Each	\$ 20,000.00
Message Boards	1	Each Week	\$ 2,900.00
Temporary Traffic Signals delivered/set-up	1	Each	\$ 7,000.00
Temporary Traffic Signals Operational	1	Each Week	\$ 3,500.00
Night Work Lighting	1	Each Day	\$ 1,500.00
g) Miscellaneous			
Tree Removal, 6" to 18" Diameter, with stump removal	1	Each	\$ 1,600.00
Tree Removal, 19" to 36" Diameter, with stump removal	1	Each	\$ 3,400.00
Tree Removal, 37"+ Diameter, with stump removal	1	Each	\$ 4,200.00
Tree Removal, 6" to 18" Diameter, without stump removal	1	Each	\$ 1,200.00
Tree Removal, 19" to 36" Diameter, without stump removal	1	Each	\$ 3,000.00
Tree Removal, 37"+ Diameter, without stump removal	1	Each	\$ 4,000.00
Stump Removal	1	Each	\$ 325.00
Permit Fees	1	Each	\$ 500.00
Water Charges	1	Each	\$ 2,250.00
Disposal Fees	1	Each	\$ 2,250.00
Concrete Barrier Temporary	1	Linear Foot	\$ 200.00
Formed Concrete	1	Cubic Yard	\$ 2,500.00
Slope Paving	1	Square Yard	\$ 250.00
Clearing and grubbing	1	Square Yard	\$ 10.00
Curb and Gutter	1	Linear Foot	\$ 85.00
Barrier Wall Repair (5' minimum per location)	1	Linear Foot	\$ 1,590.00
Coring and Raising Frame and Cover	1	Each	\$ 4,200.00
Jet Filter	1	Each	\$ 1,300.00
Misc. Electric Materials	1	Lump Sum	\$ 2,500.00
Cold Weather Protection	1	Each	\$ 4,000.00
Galvanic Anode Protection	1	Each	\$ 75.00
Exploratory Excavation	1	Hour	\$ 1,300.00
Street Sweeping	1	Each	\$ 1,950.00

Note: Additional Items may apply to each section of the Contract

Section L: Professional Services, Civil Engineering, and Land Surveying	Quantity	Unit	Unit Price
Firm Principal	1	Hour	\$ 275.00
Senior Project Manager	1	Hour	\$ 225.00

Project Manager	1	Hour	\$ 200.00
Coordinator	1	Hour	\$ 150.00
Project surveyor	1	Hour	\$ 145.00
Project engineer	1	Hour	\$ 175.00
Engineering Technician	1	Hour	\$ 125.00
Two person field survey crew	1	Hour	\$ 250.00
One person field survey crew	1	Hour	\$ 150.00
Administrative services	1	Hour	\$ 100.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 1,900.00
27-inch diameter	1	Each	\$ 2,200.00
30-inch diameter	1	Each	\$ 3,700.00
33-inch diameter	1	Each	\$ 3,700.00
36-inch diameter	1	Each	\$ 4,000.00
42-inch diameter	1	Each	\$ 4,200.00
48-inch diameter	1	Each	\$ 4,300.00
54-inch diameter	1	Each	\$ 4,950.00
60-inch diameter	1	Each	\$ 5,500.00
66-inch diameter	1	Each	\$ 7,000.00
72-inch diameter	1	Each	\$ 8,250.00
78-inch diameter	1	Each	\$ 9,000.00
84-inch diameter	1	Each	\$ 9,500.00
96-inch diameter	1	Each	\$ 11,000.00
108-inch diameter	1	Each	\$ 11,750.00
120-inch diameter	1	Each	\$ 12,225.00
132-inch diameter	1	Each	\$ 12,750.00

144-inch diameter	1	Each	\$ 13,500.00
Joint Contraction	1	Linear Foot	\$ 25.00

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 15.00
10-inch diameter	1	Square Foot	\$ 20.00
12-inch diameter	1	Square Foot	\$ 50.00
15-inch diameter	1	Square Foot	\$ 60.00
18-inch diameter	1	Square Foot	\$ 70.00
24-inch diameter	1	Square Foot	\$ 72.00
30-inch diameter	1	Square Foot	\$ 73.00
36-inch diameter	1	Square Foot	\$ 74.00
42-inch diameter	1	Square Foot	\$ 75.00
48-inch diameter	1	Square Foot	\$ 80.00
54-inch diameter	1	Square Foot	\$ 90.00
60-inch diameter	1	Square Foot	\$ 100.00
66-inch diameter	1	Square Foot	\$ 125.00
72-inch diameter	1	Square Foot	\$ 130.00
78-inch diameter	1	Square Foot	\$ 140.00
84-inch diameter	1	Square Foot	\$ 155.00

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 4,500.00
36-inch diameter	1	Each	\$ 6,250.00
48-inch diameter	1	Each	\$ 10,000.00
60-inch diameter	1	Each	\$ 13,000.00
72-inch diameter	1	Each	\$ 15,500.00
84-inch diameter	1	Each	\$ 17,500.00
Adjust Structure	1	Each	\$ 3,000.00
Frame and Cover Replace	1	Each	\$ 1,250.00
Structure Reconstruct	1	Vertical Foot	\$ 925.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 600.00
Cleaning of Structures	1	Hourly	\$ 425.00
Drainage Structure Tap (up to 24")	1	Each	\$ 2,500.00
Clean and Seal Joints of Structures/box and wall ends	1	Linear Foot	\$ 100.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet (concrete)	1	Each	\$ 3,000.00
21-inch to 30-inch outlet (concrete)	1	Each	\$ 5,500.00
33-inch to 48-inch outlet (concrete)	1	Each	\$ 9,500.00
54-inch to 66-inch outlet (concrete)	1	Each	\$ 14,500.00
12-inch to 18-inch outlet (steel)	1	Each	\$ 2,500.00
21-inch to 30-inch outlet (steel)	1	Each	\$ 4,000.00
33-inch to 48-inch outlet (steel)	1	Each	\$ 6,500.00
54-inch to 66-inch outlet (steel)	1	Each	\$ 8,000.00

Section Q: End wall Remove and Replace	Quantity	Unit	Unit Price
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12-inch to 18-inch outlet	1	Each	\$ 5,500.00
21-inch to 30-inch outlet	1	Each	\$ 8,500.00
33-inch to 48-inch outlet	1	Each	\$ 10,500.00
54-inch to 66-inch outlet	1	Each	\$ 15,500.00

Section R: Labor/Equipment	Quantity	Unit	Unit Price
Supervisor	1	Hour	\$ 150.00
Foreman	1	Hour	\$ 145.00
Operator	1	Hour	\$ 125.00
Laborer	1	Hour	\$ 95.00
Finisher	1	Hour	\$ 100.00
Truck Driver	1	Hour	\$ 95.00
Excavator M318 (equiv.)	1	Hour	\$ 243.00
Excavator 325 (equiv.)	1	Hour	\$ 260.00
Excavator 315 (equiv.)	1	Hour	\$ 162.00
Excavator 308 (equiv.)	1	Hour	\$ 145.00
Excavator 305 (equiv.)	1	Hour	\$ 140.00
Loader 936 (equiv.)	1	Hour	\$ 150.00
Backhoe	1	Hour	\$ 80.00
Skid Steer	1	Hour	\$ 75.00
Dump Truck 5 yard (equiv.)	1	Hour	\$ 90.00
Quad Axle semi-dump	1	Hour	\$ 100.00
Gravel Train	1	Hour	\$ 115.00
Lowboy Trailer	1	Hour	\$ 115.00
Foreman Pick-up	1	Hour	\$ 30.00
Jobsite Pick-up	1	Hour	\$ 20.00
Utility Truck w/tools	1	Hour	\$ 80.00
Flatbed Truck	1	Hour	\$ 53.00
Dozer	1	Hour	\$ 225.00
Mini Excavator	1	Hour	\$ 140.00
Hydro-Excavator	1	Hour	\$ 425.00
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 325.00
185 CFM compressor	1	Day	\$ 325.00
Light Tower	1	Day	\$ 300.00
Concrete Saw	1	Day	\$ 300.00
Pipe Saw	1	Day	\$ 70.00

Place Compactor	1	Day	\$ 113.00
Misc. tools (jackhammers/spades/drills)	1	Day	\$ 120.00
Steel plates	1	Day	\$ 200.00
Traffic Barrell	1	Day	\$ 10.00

Section T: Glare Screen Repair	Quantity	Unit	Unit Price
1' to 5'	1	Linear Foot	\$ 2,000.00
6' to 10'	1	Linear Foot	\$ 1,500.00
11' to 15'	1	Linear Foot	\$ 1,000.00
16' to 20'	1	Linear Foot	\$ 750.00

Section U: Auger Bore Installation of Culvert/Drainage (80 foot minimum)	Quantity	Unit	Unit Price
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 300.00
18"	1	Linear Foot	\$ 350.00
21"	1	Linear Foot	\$ 375.00
24"	1	Linear Foot	\$ 500.00
30"	1	Linear Foot	\$ 600.00
36"	1	Linear Foot	\$ 720.00
42"	1	Linear Foot	\$ 840.00
48"	1	Linear Foot	\$ 960.00
54"	1	Linear Foot	\$ 1,080.00
60"	1	Linear Foot	\$ 1,200.00
66"	1	Linear Foot	\$ 1,320.00
72"	1	Linear Foot	\$ 1,440.00

Section V: Open Cut Repair of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 195.00
10"	1	Linear Foot	\$ 225.00
12"	1	Linear Foot	\$ 250.00
15"	1	Linear Foot	\$ 275.00
18"	1	Linear Foot	\$ 300.00
21"	1	Linear Foot	\$ 400.00
24"	1	Linear Foot	\$ 500.00
30"	1	Linear Foot	\$ 600.00
36"	1	Linear Foot	\$ 700.00
42"	1	Linear Foot	\$ 800.00
48"	1	Linear Foot	\$ 1,000.00
54"	1	Linear Foot	\$ 1,750.00
60"	1	Linear Foot	\$ 2,500.00
66"	1	Linear Foot	\$ 2,750.00
72"	1	Linear Foot	\$ 3,000.00

Section W: Removal of Culverts	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 135.00
10"	1	Linear Foot	\$ 165.00

12"	1	Linear Foot	\$ 190.00
15"	1	Linear Foot	\$ 215.00
18"	1	Linear Foot	\$ 240.00
21"	1	Linear Foot	\$ 350.00
24"	1	Linear Foot	\$ 375.00
30"	1	Linear Foot	\$ 440.00
36"	1	Linear Foot	\$ 525.00
42"	1	Linear Foot	\$ 600.00
48"	1	Linear Foot	\$ 750.00
54"	1	Linear Foot	\$ 1,000.00
60"	1	Linear Foot	\$ 1,500.00
66"	1	Linear Foot	\$ 2,000.00
72"	1	Linear Foot	\$ 3,000.00
Section X: Point Repair/Collar	Quantity	Unit	Unit Price
Additional Length up to 10' deep for 8"-24" pipe	1	Each	\$ 200.00
Additional Length up to 10' deep for 27"-48" pipe	1	Each	\$ 225.00
Additional Length up to 15' deep for 8"-24" pipe	1	Each	\$ 400.00
Additional Length up to 15' deep for 27"-48" pipe	1	Each	\$ 500.00
Section Y: Geopolymer Spray Applied Structural Liner	Quantity	Unit	Unit Price
Geopolymer Structural Liner	1	Foot	\$ 100.00
Section Z: Installation of Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 125.00
15"	1	Linear Foot	\$ 150.00
18"	1	Linear Foot	\$ 200.00
21"	1	Linear Foot	\$ 225.00
24"	1	Linear Foot	\$ 300.00
30"	1	Linear Foot	\$ 350.00
36"	1	Linear Foot	\$ 425.00
42"	1	Linear Foot	\$ 525.00
48"	1	Linear Foot	\$ 625.00
54"	1	Linear Foot	\$ 800.00
60"	1	Linear Foot	\$ 1,000.00
66"	1	Linear Foot	\$ 1,250.00
72"	1	Linear Foot	\$ 1,500.00
Percentage Adder for Polymer Coating (Apply to Section Items to Supply for Install CMP with Manufacturer Applied Polymer Coating)	1	Percent	\$ 25.00
Section AA: Installation of Polymer Coated Corrugated Metal Pipe (CMP)	Quantity	Unit	Unit Price
8"	1	Linear Foot	\$ 95.00
10"	1	Linear Foot	\$ 105.00
12"	1	Linear Foot	\$ 125.00
15"	1	Linear Foot	\$ 150.00
18"	1	Linear Foot	\$ 200.00

21"	1	Linear Foot	\$ 225.00
24"	1	Linear Foot	\$ 300.00
30"	1	Linear Foot	\$ 350.00
36"	1	Linear Foot	\$ 425.00
42"	1	Linear Foot	\$ 525.00
48"	1	Linear Foot	\$ 625.00
54"	1	Linear Foot	\$ 800.00
60"	1	Linear Foot	\$ 1,000.00
66"	1	Linear Foot	\$ 1,250.00
72"	1	Linear Foot	\$ 1,500.00

All unit prices are not to exceed pricing. Contractor must allow for lower pricing to be available for similar product and service purchases.

\$ 562,665.00

SCHEDULE C – ARCGIS ONLINE (AGOL)

Background

Geographic Information System (GIS) is a visualization of data in a map. ArcGIS Online (owned by the company ESRI), commonly abbreviated as AGOL or AGO, is a comprehensive software platform for creating, sharing, and analyzing maps and data. AGOL automatically coordinates information when data is entered in the GIS map.

AGOL can be accessed on desktop computers via Google Chrome or Firefox (Internet Explorer or Edge browsers must not be used), or on connected smart devices – smart phones and tablets – via free applications.

MDOT is responsible for developing, deploying, and maintaining AGOL with applicable app.

Use of ArcGIS

Use of AGOL will be required for providing location, tracking contract activity and assigning Work Orders. The Contractor must use AGOL software to track, monitor, and record all required information in the MDOT database. MDOT will provide user credentials to the Contractor for access to the applicable database. If the Contractor has existing AGOL credentials, these can be associated with the databases for the Contract.

- A. MDOT and Contractor will share the same map database. The database will be backed up by MDOT periodically to monitor any changes. Data points from the map can be extracted and used for reporting and invoicing purposes. There will be limitations on what information MDOT and/or the Contractor can modify in the AGOL database.
- B. The Contractor will utilize AGOL applications to view and locate work assignments; and record performed services as directed by MDOT.

Device Requirements

The Contractor must have mobile smart devices with cellular connections, such as phones or tablets, which must have both location services and photos enabled. Devices must be able to access and install the latest version of AGOL applications.

Any costs associated with mobile devices are the responsibility of the Contractor; MDOT will not provide computers or smart devices for the Contractor's use.

Installation and Set-Up

Installation and Set-up of AGOL is at no cost. However, the Contractor may incur applicable data charges for usage.

AGOL is available through the Internet via Google Chrome or Firefox. (Internet Explorer or Edge should not be used to access AGOL.) AGOL can be used on multiple existing computers or smart devices assigned to Contractor's staff/personnel.

If the Contractor already has an AGOL account with user credentials, the existing credentials may be associated with the database/web map and other developed applications for the Contract. If the Contractor does not already have AGO user credentials, MDOT will provide these to the Contractor for access to AGO, for interfacing with the map and for downloading data to facilitate payment processing.

Training

MDOT will provide training, free of charge to the Contractor, on how to use the AGOL interface for computers (via the Internet) and for smart devices via free and installed apps. The Contractor must know or bring all necessary access to each computer and smart device to the training, including usernames and passwords, Apple IDs, etc. This training will take place at a mutually convenient location. It is required for all essential Contractor employees to complete this training prior to beginning work. Essential Contractor employees include personnel who will be entering information into the map database in the field or extracting the data for invoicing purposes. MDOT will provide ongoing assistance to the Contractor for the AGOL software, as needed.

Service Orders

MDOT will generate Work Orders in AGOL to request services. Work Orders will provide requested service location(s) and will be considered written approval to perform work.

The Contractor must utilize AGOL for the following functions:

- A.** To check for new requests from MDOT.
- B.** To view locations and due dates on Work Orders
- C.** To update the status of previous Work Orders.
- D.** To communicate progress/status with the Agency.
- E.** To submit Electronic Reports: monthly and yearly reports with location identified by coordinates.

MICHIGAN
DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION
FOR
CURED-IN-PLACE PIPE LINER FOR CULVERTS AND STORM SEWERS

COS:DMG

1 of 3

APPR:NJM:DBP:11-25-24

a. Description. This work consists of the design and installation of the cured-in-place resin impregnated felt liner into an existing circular or non-circular culvert or storm sewer by hydrostatic inversion or by the direct pulled-in-place method at the locations specified on the plans. Cure the liner in place so that the finished installation is continuous, furnishes structural support, and is tight fitting to the existing pipe. The manufacturer of the liner system must furnish the design, installation, and inspection of the liner and must have an authorized representative on site during installation.

Furnish video inspection of the culverts and sewers before (after cleaning) and after lining. All culvert and sewer cleaning, maintaining flow, bypass pumping, and site preparation is included in this work except as described below.

b. Materials. Use tube and resin material in accordance with one of the following standards: *ASTM F1216*, *ASTM F1743*, *ASTM F2019* and/or *Design of Close-Fit Liners for the Rehabilitation of Gravity Pipes, MOP 145 (ASCE MOP 145)*, as applicable.

Design the liner for HS-20 live loading. For circular pipe, design the required cured-in-place liner wall thickness in accordance with *Appendix X1 of ASTM F1216* or *ASCE MOP 145*. For non-circular pipe, design the cured-in-place liner in accordance with *ASCE MOP 145*. Use the formulas assuming a fully deteriorated pipe condition and assume the water table is at the top surface of the pavement over the existing pipe.

Furnish documentation and calculations to the Engineer prior to installation verifying the proposed design liner thickness for each run of pipe, all component materials, and that the liner meets the minimum chemical resistance requirements in accordance with *Appendix X2 of ASTM F1216* and/or *ASCE MOP 145*, as applicable.

Furnish a tube consisting of one or more layers of flexible needled felt or equivalent woven or nonwoven material capable of carrying resin and withstanding installation pressures and curing temperatures. Ensure the tube is compatible with the resin system used. Ensure the tube material can stretch to fit irregular culvert or sewer sections. Ensure the outside layer of the tube is plastic-coated with a material that is compatible with the resin system used. Fabricate the tube to the required size to fit the inside diameter for the full length of the existing culvert or sewer when cured. Ensure allowance is made for circumferential stretch during the hydrostatic inversion method and for longitudinal stretch during the direct pulled-in-place method.

c. Construction. Furnish at least 10 work days notice to the Engineer prior to starting the work. Electronically submit all required documentation to the Engineer for approval prior to starting the work. Do not begin work until approval is received from the Engineer.

Video inspect the existing and lined pipe in accordance with subsection 402.03.J of the Standard Specifications for Construction. Thoroughly clean the existing pipe prior to video

inspection. Dispose of all debris in accordance with subsection 205.03.P of the Standard Specifications for Construction.

Propose a corrective action to eliminate any obstruction revealed by the pre-installation inspection that cannot be removed by conventional pipe cleaning equipment and that prevents the cured-in-place liner from being installed properly. Ensure the proposed corrective action is approved by the Engineer prior to commencement of the work.

Maintain flow around the run of pipe designated for lining as necessary. Ensure the bypass pumping system can provide adequate capacity to handle the existing flow plus any additional flow that may occur during periods of precipitation. Electronically submit a bypass pumping plan containing all necessary details to the Engineer for approval at least 10 work days prior to conducting the work.

Continuously monitor all pumps and equipment. Follow local noise ordinances if pumping is required on a 24-hour basis.

Install the cured-in-place liner in accordance with the manufacturer's guidelines and *ASTM F1216*, *ASTM F1743*, or *ASTM F2019*, as applicable. Ensure the finished liner is continuous over the entire length of pipe and is free from visual defects, such as foreign inclusions, dry spots, pinholes, lifts, and delamination. Wrinkles or other flaws in the cured liner that reduce the hydraulic capacity of the pipe are unacceptable. Correct any deficiency found at no cost to the contract, utilizing a method approved by the Engineer. Remove and dispose of excess resin and other materials generated from the installation.

For all types of resin and installation methods, capture and dispose of all process water and wastewater resulting from the installation and flushing of the cured-in-place liner. Ensure the captured water is disposed of at a local wastewater treatment facility or as otherwise approved by the Engineer in accordance with applicable federal, state, and local regulations and permit requirements. Furnish written authorization to the Engineer for acceptance of this water from the local wastewater treatment facility prior to starting the work. Furnish written confirmation to the Engineer from the disposal facility verifying the process water was disposed of properly. Ensure process water is not discharged directly or indirectly to a ditch, storm sewer, surface water body, or other unapproved location.

Prepare and test samples for each lined run of pipe in accordance with *ASTM F1216*, section 8.1 or *ASTM F2019*, section 7.1 and/or *ASCE MOP 145*, as applicable.

Furnish a certification, sealed by a Professional Engineer licensed in the State of Michigan, verifying that the lining system has been designed, manufactured, and installed in accordance with the applicable *ASTM* standards and this special provision.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Pay Item	Pay Unit
Cured-In-Place Pipe Lining, __ inch	Foot

Cured-In-Place Pipe Lining, __ inch includes cleaning, debris disposal and video inspection necessary to line the culverts and storm sewers as described.

The cost for the work to remove an obstruction that cannot be removed with conventional pipe cleaning equipment will be paid for separately in accordance with the contract.

MDOT Regional Service Areas and Facilities



WELCOME CENTERS	
A. CLARE.....	BAY
B. COLDWATER.....	SWR
C. DETROIT.....	MET
D. DUNDEE.....	UNV
E. IRON MOUNTAIN.....	SUP
F. IRONWOOD.....	SUP
G. MACKINAW CITY.....	NOR
H. MARQUETTE.....	SUP
I. MENOMINEE.....	SUP
J. MONROE.....	UNV
K. NEW BUFFALO.....	SWR
L. PORT HURON.....	BAY
M. SAULT STE. MARIE.....	SUP
N. ST. IGNACE.....	SUP

MDOT FACILITIES AND CENTRAL REPAIR/BUILDUP	
1. ADRIAN GARAGE.....	UNV
2. ATLANTA GARAGE/LAB.....	NOR
3. AUBURN HILLS REGION CREWS.....	ME T
4. BRIGHTON GARAGE.....	UNV
5. CADILLAC REGION CREWS.....	NOR
6. CHARLOTTE GARAGE.....	UNV
7. COLOMA GARAGE.....	SWR
8. DETROIT GARAGE.....	MET
9. ENGADINE GARAGE.....	SUP
10. FENNVILLE GARAGE.....	GRD
11. GLADSTONE SIGN/ SIGNAL FACILITY.....	SUP
12. GRAND LEDGE GARAGE.....	UNV
13. GRAND RAPIDS GARAGE.....	GRD
14. GRAND RAPIDS REGION CREWS/LAB.....	GRD
15. HASTINGS GARAGE.....	GRD
16. HILLMAN LAB.....	NOR
17. HOUGHTON GARAGE.....	SUP
18. JACKSON REGION CREWS/LAB.....	UNV
19. JONES GARAGE.....	SWR
20. KALAMAZOO GARAGE.....	SWR
21. KALKASKA GARAGE/LAB.....	NOR
22. L'ANSE GARAGE.....	SUP
23. LANSING CENTRAL REPAIR/BUILDUP.....	UNV
24. MARION GARAGE.....	GRD
25. MARSHALL GARAGE.....	SWR
26. MASON GARAGE.....	UNV
27. METRO LAB.....	MET
28. MIO GARAGE.....	NOR
29. MT. PLEASANT GARAGE.....	BAY
30. NILES GARAGE.....	SWR
31. PAW PAW CENTRAL REPAIR.....	SWR
32. PLAINWELL GARAGE.....	GRD
33. PORTAGE REGION CREWS.....	SWR
34. PORT HURON GARAGE.....	BAY
35. REED CITY GARAGE.....	GRD
36. SAGINAW EAST SIDE GARAGE.....	BAY
37. SAGINAW REGION CREWS.....	BAY
38. SAGINAW WEST SIDE GARAGE.....	BAY
39. SAWYER GARAGE.....	SWR
40. SOUTH HAVEN GARAGE.....	SWR
41. ST. IGNACE GARAGE.....	SUP
42. WILLIAMSTON GARAGE.....	UNV
43. WEST MONROE GARAGE.....	UNV
44. EAST MONROE GARAGE.....	UNV
MDOT BRIDGE FACILITIES	
45. INTERNATIONAL BRIDGE.....	SUP
46. MACKINAC BRIDGE.....	NOR
47. BLUE WATER BRIDGE.....	BAY

