



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

425 W. Ottawa Street, Lansing, MI 48933
P.O. Box 30050, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number 15
to
Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc	STATE	Program Manager	James Roath	MDOT
	6001 Schooner Drive			517-230-5361	
	Belleville, MI 48112			RoathJ1@michigan.gov	
	David Carpenter, Jr.		Contract Administrator	Anna Swanson	MDOT
	734-547-9236			517-230-2063	
	dcarpenter@corbyenergy.com			Swansona1@michigan.gov	
	VS0020117				

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration.				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2026	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☒	Six (6) months	November 10, 2026
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$81,500,000.00		\$10,000,000.00	\$91,500,000.00	
DESCRIPTION: Upon execution and State Ad Board approval on April 28, 2026, this Contract is exercising a six-month extension and is increased \$10,000,000.00 for continued as-needed culvert rehabilitation and drainage restoration services. The revised contract expiration date is November 10, 2026.				
All other terms, conditions and specifications remain the same. Per Contractor and Agency agreement.				



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CONTRACT CHANGE NOTICE

Change Notice Number 14

to

Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc	STATE	Program Manager	James Roath	MDOT
	6001 Schooner Drive			517-230-5361	
	Belleville, MI 48112			RoathJ1@michigan.gov	
	David Carpenter, Jr.		Contract Administrator	Anna Swanson	MDOT
	734-547-9236			517-230-2063	
	dcarpenter@corbyenergy.com			Swansona1@michigan.gov	
	VS0020117				

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration.				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2026	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		No Change
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$73,500,000.00		\$8,000,000.00	\$81,500,000.00	
DESCRIPTION: Upon execution and State Ad Board approval on February 17, 2026, the contract value is increased \$8,000,000.00 for continued as-needed culvert rehabilitation and drainage restoration services.				
All other terms, conditions and specifications remain the same. Per Contractor and Agency agreement.				



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

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CONTRACT CHANGE NOTICE

Change Notice Number **13**

to

Contract Number **200000000843**

CONTRACTOR	Corby Energy Services, Inc	STATE	Program Manager	James Roath	MDOT
	6001 Schooner Drive			517-230-5361	
	Belleville, MI 48112			RoathJ1@michigan.gov	
	David Carpenter, Jr.		Contract Administrator	Anna Swanson	MDOT
	734-547-9236			517-230-2063	
	dcarpenter@corbyenergy.com			Swansona1@michigan.gov	
	VS0020117				

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration.				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2026	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		No Change
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$65,500,000.00		\$8,000,000.00	\$73,500,000.00	
DESCRIPTION: Upon execution and State Ad Board approval on August 26, 2025, the contract value is increased \$8,000,000.00 for continued as-needed culvert rehabilitation and drainage restoration services.				
All other terms, conditions and specifications remain the same. Per Contractor and Agency agreement.				



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CONTRACT CHANGE NOTICE

Change Notice Number 12

to

Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc	STATE	Program Manager	James Roath	MDOT
	6001 Schooner Drive			517-230-5361	
	Belleville, MI 48112			RoathJ1@michigan.gov	
	David Carpenter, Jr.		Contract Administrator	Anna Swanson	MDOT
	734-547-9236			517-230-2063	
	dcarpenter@corbyenergy.com			Swansona1@michigan.gov	
	VS0020117				

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2025	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☒	1 year	☐		May 10, 2026
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$55,500,000.00		\$10,000,000.00	\$65,500,000.00	
DESCRIPTION: Upon execution and State Ad Board approval on January 28, 2025, the following changes are made:				
1. Exercise the third and final option year.				
2. The contract value is increased \$10,000,000.00 for continued as-needed culvert rehabilitation and drainage restoration services.				
3. Add line items for additional repair types, materials, and resources for as needed culvert rehabilitation and drainage restoration services.				
All other terms, conditions and specifications remain the same. Per Contractor and Agency agreement.				

Contract No. 200000000843

Contract Change Notice #12

Contract Change Notice #12 to add line items for additional repair types, materials, resources and hourly rate (to apply to specific drainage repairs where line items are not provided). These other types will provide additional means of repair for both culverts and their associated drainage parts. These items are as follows:

1. Aggregate Road Hard Surface: This item will be used to establish specified hard surface, compacted in place aggregate. This item will be used in conjunction with roadway, shoulders, drives and walks.
 - a. Regions: All
 - b. Unit of Measure: Square Yard
 - c. Not to Exceed Price: \$50.00
2. Rip Rap Placed on slopes or used as check dams: This item will be used when directed to place riprap on slopes or to build check dams or energy dissipaters.
 - a. Regions: All
 - b. Unit of Measure: Square Yard
 - c. Not to Exceed Price: \$485.00
3. Street Sweeping: This item will be used when agreed upon, project specific.
 - a. Regions: All
 - b. Unit of Measure: Each
 - c. Not to Exceed Price: \$1,950.00



STATE OF MICHIGAN PROCUREMENT

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CONTRACT CHANGE NOTICE

Change Notice Number 11

to

Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48112
	David Carpenter, Jr.
	734-547-9236
	dcarpenter@corbyenergy.com
	VS0020117

STATE	Program Manager	James Roath	MDOT
		517-230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Anna Swanson	MDOT
		517-230-2063	
		Swansona1@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2025	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		No Change
CURRENT VALUE		VALUE OF CHANGE NOTICE		ESTIMATED AGGREGATE CONTRACT VALUE
\$45,500,000.00		\$10,000,000.00		\$55,500,000.00
DESCRIPTION: Upon execution, the following changes are made: 1. The Contract is modified to add line items for additional repair types, materials, and resources for as needed culvert rehabilitation and drainage restoration services. 2. The contract value is increased \$10,000,000.00 for continued as-needed culvert rehabilitation and drainage restoration services. 3. The State's Contract Administrator is updated to Anna Swanson.				
All other specifications, and contract terms remain the same. Per contractor and agency agreement and State Administrative Board approval dated 7/16/2024				

Contract No. 200000000843
Contract Change Notice #11

Contract Change Notice #11 to add line items for additional repair types, materials, resources, and hourly rates (to apply to specific drainage repairs where line items are not provided). These other types will provide additional means of repair for both culverts and their associated drainage parts. These items are as follows:

1. Dynamic Cone Penetrometer Testing: This item will be used to check density of subsurface soil as directed by MDOT. This item will be used in conjunction with soil stabilization needs.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$750.00
2. Slope Paving: This item will be used for drainage improvements that require the installation or replacement of slope paving.
 - a. Regions: All
 - b. Unit of Measure: SY
 - c. Not to Exceed Price: \$290.00
 - i. Slope Paving Header:
 1. Regions: All
 2. Unit of Measure: FT
 3. Not to Exceed Price: \$440.00
3. Concrete or Asphalt Testing: This item will be used when MDOT requests that testing be performed.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$3,500.00
4. Night Work Lighting: This item will be used when night work is necessary to complete drainage improvements or culvert repairs.
 - a. Regions: All
 - b. Unit of Measure: Day
 - c. Not to Exceed Price: \$1,500.00
5. Exploratory Excavation: This item will be used in situations where exploratory excavation is necessary to determine the location, condition, connectivity, or other purposes so that drainage improvements can be executed (as agreed beforehand).
 - a. Regions: All
 - b. Unit of Measure: HR
 - c. Not to Exceed Price: \$1,100.00
6. Slip lining Set-up: This item is to be used in conjunction with pay item Section D 'Slip Lining.' Set up charge applies to each specific slip lining location/culvert. This item is separate from mobilization or performing the actual work.
 - a. Regions: All

- b. Unit of Measure: EA
- c. Not to Exceed Price: \$10,000.00



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CONTRACT CHANGE NOTICE

Change Notice Number 10

to

Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48112
	David Carpenter, Jr.
	734-547-9236
	dcarpenter@corbyenergy.com
	VS0020117

STATE	Program Manager	James Roath	MDOT
		517-230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		517-230-1612	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2025	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		No Change
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$45,500,000.00		\$0.00	\$45,500,000.00	
DESCRIPTION: Upon execution, the Contract is modified to add line items for additional repair types, materials, and resources for as needed culvert rehabilitation and drainage restoration services. All other specifications, and contract terms remain the same. Per contractor and agency agreement.				

Contract No. 200000000843

Contract Change Notice #10

Contract Change Notice #10 to add line items for additional repair types, materials, resources, and hourly rates (to apply to specific drainage repairs where line items are not provided). These other types will provide additional means of repair for both culverts and their associated drainage parts. These items are as follows:

1. Auger Bore Installation of Culvert/Drainage: This item is intended to be used in the event that an existing culvert is in such condition that other methodologies will not facilitate the necessary renewal in kind or greater. Other pay items apply. Eighty foot minimum.
 - a. Regions: All
 - b. Unit of Measure: LF
 - c. Not to Exceed Price:
 - i. 12": \$300.00
 - ii. 15": \$375.00
 - iii. 18": \$500.00
 - iv. 21": \$675.00
 - v. 24": \$850.00
 - vi. 30": \$950.00
 - vii. 36": \$1,200.00
 - viii. 42": \$1,300.00
 - ix. 48": \$1,400.00
 - x. 54": \$1,650.00
 - xi. 60": \$1,950.00
 - xii. 66": \$2,500.00
 - xiii. 72": \$3,000.00
2. Clean and seal joints of structures/box & wall ends: This item will be used to seal leaking joints to stop infiltration/exfiltration, erosion, and structural deterioration (when required).
 - a. Regions: All
 - b. Unit of Measure: LF
 - c. Not to Exceed Price: \$75.00

3. Open-cut Repair of Culverts: This item will be used when a culvert needs to be extended, repaired, or replaced by means of excavation in non-hard surface locations. Other pay items apply.

- a. Regions: All
- b. Unit of Measure: LF
- c. Not to Exceed Price:
 - i. 8": \$195.00
 - ii. 10": \$225.00
 - iii. 12": \$250.00
 - iv. 15": \$275.00
 - v. 18": \$300.00
 - vi. 21": \$400.00
 - vii. 24": \$500.00
 - viii. 30": \$600.00
 - ix. 36": \$700.00
 - x. 42": \$800.00
 - xi. 48": \$1,000.00
 - xii. 54": \$1,500.00
 - xiii. 60": \$2,000.00
 - xiv. 66": \$2,500.00
 - xv. 72": \$3,000.00

4. Removal of Culverts: This item will be used when a culvert is being removed for purposes of extending, repairing, or replacing by means of excavation in non-hard surface locations. Other pay items apply.

- a. Regions: All
- b. Unit of Measure: LF
- c. Not to Exceed Price:
 - i. 8": \$135.00
 - ii. 10": \$165.00
 - iii. 12": \$190.00
 - iv. 15": \$215.00
 - v. 18": \$240.00
 - vi. 21": \$350.00
 - vii. 24": \$375.00
 - viii. 30": \$440.00
 - ix. 36": \$525.00
 - x. 42": \$600.00
 - xi. 48": \$750.00
 - xii. 54": \$1,000.00
 - xiii. 60": \$1,500.00
 - xiv. 66": \$2,000.00
 - xv. 72": \$3,000.00

5. Stump Removal: This item will be used to remove stumps from drainage areas or access points. Disposal will be invoiced under the appropriate pay item.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$150.00

6. Point Repair/Collar: This item will be used to make physical repairs less than ten feet deep that require excavation (not covered under other pay items). This includes up to two feet of physical repair. Additional length charges are shown below.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$5,000.00
 - i. Additional length up to 10' deep for 8"-24" pipe: \$480.00
 - ii. Additional length up to 10' deep for 27"-48" pipe: \$1,000.00
 - iii. Additional length up to 15' deep for 8"-24" pipe: \$1,000.00
 - iv. Additional length up to 15' deep for 27"-48" pipe: \$1,500.00

7. Cold Weather Protection: This item will be used to cover the cost for cold weather protection where work requirements deem it necessary.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$7,500.00

8. Galvanic Anode Protection: This item will be used for culverts when exposed rebar requires such installation as directed by MDOT.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$75.00

9. Inaccessible Outlet/Inlet Locations: This item will be used for culverts that have outlets or inlets that are not accessible by conventional means due to water levels, environmental restrictions, or other (as agreed beforehand).
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$20,000.00

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	\$ 95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 8.00
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	\$ 13.00
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	\$ 30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 15.00
Timber Matting for Setup	1	Square Yard	\$ 225.00
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	\$ 550.00
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	\$ 5,200.00
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	\$ 7,500.00
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	\$ 135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 4,500.00

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	\$ 800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,000.00

12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 125.00

Section D: Polyethylene (PE) Slip Lining - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 55.00
6-inch diameter	1	Linear Foot	\$ 65.00
8-inch diameter	1	Linear Foot	\$ 75.00
10-inch diameter	1	Linear Foot	\$ 85.00
12-inch diameter	1	Linear Foot	\$ 90.00
18-inch diameter	1	Linear Foot	\$ 100.00
24-inch diameter	1	Linear Foot	\$ 150.00
30-inch diameter	1	Linear Foot	\$ 225.00
36-inch diameter	1	Linear Foot	\$ 310.00
42-inch diameter	1	Linear Foot	\$ 400.00
48-inch diameter	1	Linear Foot	\$ 450.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 325.00
Bulkheads	1	Each	\$ 500.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$ 125.00
8-inch diameter	1	Linear Foot	\$ 125.00
10-inch diameter	1	Linear Foot	\$ 150.00
12-inch diameter	1	Linear Foot	\$ 175.00
14-inch diameter	1	Linear Foot	\$ 200.00
16-inch diameter	1	Linear Foot	\$ 250.00
18-inch diameter	1	Linear Foot	\$ 275.00

20-inch diameter	1	Linear Foot	\$ 300.00
24-inch diameter	1	Linear Foot	\$ 500.00
30-inch diameter	1	Linear Foot	\$ 750.00
36-inch diameter	1	Linear Foot	\$ 1,000.00
42-inch diameter	1	Linear Foot	\$ 1,500.00
48-inch diameter	1	Linear Foot	\$ 1,750.00
54-inch diameter	1	Linear Foot	\$ 2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$ 25,000.00

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	\$ 750.00
20-inch diameter	1	Each	\$ 1,000.00

Section G: Manhole Rehabilitation - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 38.00

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	\$ 20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
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	\$ 425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00
Culvert End Cleanout	1	Each	\$ 3,500.00

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 - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 125.00

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	\$ 11.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 14.50
Temporary Steel Sheeting	1	Square Foot	\$ 40.00
Turbidity Curtain	1	Linear Foot	\$ 75.00
Inaccessible Outlet/Inlet Locations	1	Each	\$ 20,000.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 10.00
4 to 6 feet deep	1	Cubic Foot	\$ 15.00
6 to 10 feet deep	1	Cubic Foot	\$ 20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 1,000.00
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	\$ 0.25
Straw Matting	1	Square Foot	\$ 0.40

4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 35.00
10-inch concrete	1	Square Foot	\$ 40.00
12-inch concrete	1	Square Foot	\$ 45.00
2-inch asphalt	1	Square Foot	\$ 25.00
3-inch asphalt	1	Square Foot	\$ 30.00
4-inch asphalt	1	Square Foot	\$ 35.00
6-inch asphalt	1	Square Foot	\$ 40.00
8-inch asphalt	1	Square Foot	\$ 45.00
10-inch asphalt	1	Square Foot	\$ 50.00
12-inch asphalt	1	Square Foot	\$ 55.00
Saw Cut	1	Linear Foot	\$ 7.50
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 15.00
Ditch Grading	1	Linear Foot	\$ 50.00
HMA Patching	1	Ton	\$ 595.00
Guardrail Remove and Replace	1	Linear Foot	\$ 30.00
Topsoil	1	Cubic Yard	\$ 85.00
Concrete Spillway	1	Linear Foot	\$ 195.00
Geo-Web Slope Restoration	1	Square Yard	\$ 25.00
Watering Vegetation	1	Hour	\$ 225.00
Geo-Fabric	1	Square Yard	\$ 7.00
Concrete Shoulder Gutter	1	Each	\$ 2,000.00
Detectable Warning Surface ADA Tile	1	Square Foot	\$ 60.00
Slope Reinforcement Matting (SRM)	1	Square Foot	\$ 20.00

e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 50.00
Rip Rap	1	Ton	\$ 150.00
Sand	1	Ton	\$ 50.00
Gravel	1	Ton	\$ 50.00
21AA	1	Ton	\$ 50.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 300.00
Embankment/Class II Fill	1	Cubic Yard	\$ 75.00
Cement Treated Aggregate	1	Ton	\$ 185.00

f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 5.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,460.00
Arrow Board	1	Each Day	\$ 66.00
Traffic Lane Shift	1	Each	\$ 1,500.00
Traffic Control Plan (certified)	1	Each	\$ 780.00
Traffic Detour	1	Each	\$ 20,000.00
Message Boards	1	Each Week	\$ 2,900.00
Temporary Traffic Signals delivered/set-up	1	Each	\$ 7,500.00
Temporary Traffic Signals Operational	1	Each Week	\$ 3,500.00

g) Miscellaneous			
Tree Removal	1	Each	\$ 5,000.00
Permit Fees	1	Each	\$ 2,500.00
Water Charges	1	Each	\$ 3,000.00

Disposal Fees	1	Each	\$ 4,500.00
Concrete Barrier Temporary	1	Linear Foot	\$ 175.00
Formed Concrete	1	Cubic Yard	\$ 1,750.00
Slope Paving	1	Square Yard	\$ 230.00
Clearing and grubbing	1	Each	\$ 7,500.00
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	\$ 7,200.00
Jet Filter	1	Each	\$ 1,000.00
Misc. Electric Materials	1	Lump Sum	\$ 25,000.00
Stump Removal	1	Each	\$ 150.00
Cold Weather Protection	1	Each	\$ 7,500.00
Galvanic Anode Protection	1	Each	\$ 75.00

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	\$ 125.00
Administrative services	1	Hour	\$ 95.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,200.00
27-inch diameter	1	Each	\$ 3,300.00
30-inch diameter	1	Each	\$ 3,400.00
33-inch diameter	1	Each	\$ 3,550.00
36-inch diameter	1	Each	\$ 3,600.00
42-inch diameter	1	Each	\$ 3,800.00
48-inch diameter	1	Each	\$ 3,900.00
54-inch diameter	1	Each	\$ 4,500.00
60-inch diameter	1	Each	\$ 5,000.00
66-inch diameter	1	Each	\$ 7,500.00
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	\$ 13,000.00

144-inch diameter	1	Each	\$ 13,500.00
Joint Contraction	1	Linear Foot	\$ 20.00
Section N: Segmented Replacement Piping			
	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 95.00
10-inch diameter	1	Square Foot	\$ 100.00
12-inch diameter	1	Square Foot	\$ 105.00
15-inch diameter	1	Square Foot	\$ 110.00
18-inch diameter	1	Square Foot	\$ 120.00
24-inch diameter	1	Square Foot	\$ 160.00
30-inch diameter	1	Square Foot	\$ 225.00
36-inch diameter	1	Square Foot	\$ 325.00
42-inch diameter	1	Square Foot	\$ 400.00
48-inch diameter	1	Square Foot	\$ 525.00
54-inch diameter	1	Square Foot	\$ 800.00
60-inch diameter	1	Square Foot	\$ 900.00
66-inch diameter	1	Square Foot	\$ 1,000.00
72-inch diameter	1	Square Foot	\$ 1,250.00
78-inch diameter	1	Square Foot	\$ 1,500.00
84-inch diameter	1	Square Foot	\$ 1,750.00
Section O: Drainage Structure Remove and Replace			
	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,500.00
36-inch diameter	1	Each	\$ 6,500.00
48-inch diameter	1	Each	\$ 9,500.00
60-inch diameter	1	Each	\$ 12,500.00
72-inch diameter	1	Each	\$ 15,000.00
84-inch diameter	1	Each	\$ 20,000.00
Adjust Structure	1	Each	\$ 2,500.00
Frame and Cover Replace	1	Each	\$ 950.00
Structure Reconstruct	1	Vertical Foot	\$ 850.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 1,800.00
Cleaning of Structures	1	Hourly	\$ 425.00
Drainage Structure Tap (up to 24")	1	Each	\$ 2,800.00
Clean and Seal Joints of Structures/box and wall ends	1	Linear Foot	\$ 75.00
Section P: End Sections Remove and Replace			
	Quantity	Unit	Unit Price
12-inch to 18-inch outlet	1	Each	\$ 2,500.00
21-inch to 30-inch outlet	1	Each	\$ 5,500.00
33-inch to 48-inch outlet	1	Each	\$ 9,500.00
54-inch to 66-inch outlet	1	Each	\$ 12,500.00
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	\$ 130.00

Operator	1	Hour	\$	120.00
Laborer	1	Hour	\$	86.00
Finisher	1	Hour	\$	95.00
Truck Driver	1	Hour	\$	85.00
Excavator M318 (equiv.)	1	Hour	\$	243.00
Excavator 325 (equiv.)	1	Hour	\$	260.00
Excavator 315 (equiv.)	1	Hour	\$	142.00
Excavator 308 (equiv.)	1	Hour	\$	120.00
Excavator 305 (equiv.)	1	Hour	\$	115.00
Loader 936 (equiv.)	1	Hour	\$	125.00
Backhoe	1	Hour	\$	98.00
Skid Steer	1	Hour	\$	60.00
Dump Truck 5 yard (equiv.)	1	Hour	\$	72.00
Quad Axle semi-dump	1	Hour	\$	72.00
Gravel Train	1	Hour	\$	83.00
Lowboy Trailer	1	Hour	\$	83.00
Foreman Pick-up	1	Hour	\$	30.00
Jobsite Pick-up	1	Hour	\$	20.00
Utility Truck w/tools	1	Hour	\$	63.00
Flatbed Truck	1	Hour	\$	43.00
Dozer	1	Hour	\$	175.00
Mini Excavator	1	Hour	\$	130.00
Hydro-Excavator	1	Hour	\$	395.00
Section S: Equipment	Quantity	Unit	Unit Price	
Generator	1	Day	\$	230.00
185 CFM compressor	1	Day	\$	243.00
Light Tower	1	Day	\$	245.00
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	\$	67.00
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	\$ 300.00
15"	1	Linear Foot	\$ 375.00
18"	1	Linear Foot	\$ 500.00
21"	1	Linear Foot	\$ 675.00
24"	1	Linear Foot	\$ 850.00
30"	1	Linear Foot	\$ 950.00
36"	1	Linear Foot	\$ 1,200.00
42"	1	Linear Foot	\$ 1,300.00
48"	1	Linear Foot	\$ 1,400.00
54"	1	Linear Foot	\$ 1,650.00
60"	1	Linear Foot	\$ 1,950.00
66"	1	Linear Foot	\$ 2,500.00
72"	1	Linear Foot	\$ 3,000.00

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	\$ 1,500.00
60"	1	Linear Foot	\$ 2,000.00
66"	1	Linear Foot	\$ 2,500.00
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

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	\$ 95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 8.00
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	\$ 13.00
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	\$ 30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 15.00
Timber Matting for Setup	1	Square Yard	\$ 225.00
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	\$ 550.00
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	\$ 5,200.00
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	\$ 7,500.00
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	\$ 135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 4,500.00

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	\$ 800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,000.00

12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 125.00

Section D: Polyethylene (PE) Slip Lining - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 55.00
6-inch diameter	1	Linear Foot	\$ 65.00
8-inch diameter	1	Linear Foot	\$ 75.00
10-inch diameter	1	Linear Foot	\$ 85.00
12-inch diameter	1	Linear Foot	\$ 90.00
18-inch diameter	1	Linear Foot	\$ 100.00
24-inch diameter	1	Linear Foot	\$ 150.00
30-inch diameter	1	Linear Foot	\$ 225.00
36-inch diameter	1	Linear Foot	\$ 310.00
42-inch diameter	1	Linear Foot	\$ 400.00
48-inch diameter	1	Linear Foot	\$ 450.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 325.00
Bulkheads	1	Each	\$ 500.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$ 125.00
8-inch diameter	1	Linear Foot	\$ 125.00
10-inch diameter	1	Linear Foot	\$ 150.00
12-inch diameter	1	Linear Foot	\$ 175.00
14-inch diameter	1	Linear Foot	\$ 200.00
16-inch diameter	1	Linear Foot	\$ 250.00
18-inch diameter	1	Linear Foot	\$ 275.00

20-inch diameter	1	Linear Foot	\$ 300.00
24-inch diameter	1	Linear Foot	\$ 500.00
30-inch diameter	1	Linear Foot	\$ 750.00
36-inch diameter	1	Linear Foot	\$ 1,000.00
42-inch diameter	1	Linear Foot	\$ 1,500.00
48-inch diameter	1	Linear Foot	\$ 1,750.00
54-inch diameter	1	Linear Foot	\$ 2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$ 25,000.00

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	\$ 750.00
20-inch diameter	1	Each	\$ 1,000.00

Section G: Manhole Rehabilitation - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 38.00

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	\$ 20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
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	\$ 425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00
Culvert End Cleanout	1	Each	\$ 3,500.00

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 - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 125.00

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	\$ 11.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 14.50
Temporary Steel Sheeting	1	Square Foot	\$ 40.00
Turbidity Curtain	1	Linear Foot	\$ 75.00
Inaccessible Outlet/Inlet Locations	1	Each	\$ 20,000.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 10.00
4 to 6 feet deep	1	Cubic Foot	\$ 15.00
6 to 10 feet deep	1	Cubic Foot	\$ 20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 1,000.00
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	\$ 0.25
Straw Matting	1	Square Foot	\$ 0.40

4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 35.00
10-inch concrete	1	Square Foot	\$ 40.00
12-inch concrete	1	Square Foot	\$ 45.00
2-inch asphalt	1	Square Foot	\$ 25.00
3-inch asphalt	1	Square Foot	\$ 30.00
4-inch asphalt	1	Square Foot	\$ 35.00
6-inch asphalt	1	Square Foot	\$ 40.00
8-inch asphalt	1	Square Foot	\$ 45.00
10-inch asphalt	1	Square Foot	\$ 50.00
12-inch asphalt	1	Square Foot	\$ 55.00
Saw Cut	1	Linear Foot	\$ 7.50
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 15.00
Ditch Grading	1	Linear Foot	\$ 50.00
HMA Patching	1	Ton	\$ 595.00
Guardrail Remove and Replace	1	Linear Foot	\$ 30.00
Topsoil	1	Cubic Yard	\$ 85.00
Concrete Spillway	1	Linear Foot	\$ 195.00
Geo-Web Slope Restoration	1	Square Yard	\$ 25.00
Watering Vegetation	1	Hour	\$ 225.00
Geo-Fabric	1	Square Yard	\$ 7.00
Concrete Shoulder Gutter	1	Each	\$ 2,000.00
Detectable Warning Surface ADA Tile	1	Square Foot	\$ 60.00
Slope Reinforcement Matting (SRM)	1	Square Foot	\$ 20.00

e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 50.00
Rip Rap	1	Ton	\$ 150.00
Sand	1	Ton	\$ 50.00
Gravel	1	Ton	\$ 50.00
21AA	1	Ton	\$ 50.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 300.00
Embankment/Class II Fill	1	Cubic Yard	\$ 75.00
Cement Treated Aggregate	1	Ton	\$ 185.00

f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 5.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,460.00
Arrow Board	1	Each Day	\$ 66.00
Traffic Lane Shift	1	Each	\$ 1,500.00
Traffic Control Plan (certified)	1	Each	\$ 780.00
Traffic Detour	1	Each	\$ 20,000.00
Message Boards	1	Each Week	\$ 2,900.00
Temporary Traffic Signals delivered/set-up	1	Each	\$ 7,500.00
Temporary Traffic Signals Operational	1	Each Week	\$ 3,500.00

g) Miscellaneous			
Tree Removal	1	Each	\$ 5,000.00
Permit Fees	1	Each	\$ 2,500.00
Water Charges	1	Each	\$ 3,000.00

Disposal Fees	1	Each	\$ 4,500.00
Concrete Barrier Temporary	1	Linear Foot	\$ 175.00
Formed Concrete	1	Cubic Yard	\$ 1,750.00
Slope Paving	1	Square Yard	\$ 230.00
Clearing and grubbing	1	Each	\$ 7,500.00
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	\$ 7,200.00
Jet Filter	1	Each	\$ 1,000.00
Misc. Electric Materials	1	Lump Sum	\$ 25,000.00
Stump Removal	1	Each	\$ 150.00
Cold Weather Protection	1	Each	\$ 7,500.00
Galvanic Anode Protection	1	Each	\$ 75.00

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	\$ 125.00
Administrative services	1	Hour	\$ 95.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,200.00
27-inch diameter	1	Each	\$ 3,300.00
30-inch diameter	1	Each	\$ 3,400.00
33-inch diameter	1	Each	\$ 3,550.00
36-inch diameter	1	Each	\$ 3,600.00
42-inch diameter	1	Each	\$ 3,800.00
48-inch diameter	1	Each	\$ 3,900.00
54-inch diameter	1	Each	\$ 4,500.00
60-inch diameter	1	Each	\$ 5,000.00
66-inch diameter	1	Each	\$ 7,500.00
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	\$ 13,000.00

144-inch diameter	1	Each	\$ 13,500.00
Joint Contraction	1	Linear Foot	\$ 20.00
Section N: Segmented Replacement Piping			
	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 95.00
10-inch diameter	1	Square Foot	\$ 100.00
12-inch diameter	1	Square Foot	\$ 105.00
15-inch diameter	1	Square Foot	\$ 110.00
18-inch diameter	1	Square Foot	\$ 120.00
24-inch diameter	1	Square Foot	\$ 160.00
30-inch diameter	1	Square Foot	\$ 225.00
36-inch diameter	1	Square Foot	\$ 325.00
42-inch diameter	1	Square Foot	\$ 400.00
48-inch diameter	1	Square Foot	\$ 525.00
54-inch diameter	1	Square Foot	\$ 800.00
60-inch diameter	1	Square Foot	\$ 900.00
66-inch diameter	1	Square Foot	\$ 1,000.00
72-inch diameter	1	Square Foot	\$ 1,250.00
78-inch diameter	1	Square Foot	\$ 1,500.00
84-inch diameter	1	Square Foot	\$ 1,750.00
Section O: Drainage Structure Remove and Replace			
	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,500.00
36-inch diameter	1	Each	\$ 6,500.00
48-inch diameter	1	Each	\$ 9,500.00
60-inch diameter	1	Each	\$ 12,500.00
72-inch diameter	1	Each	\$ 15,000.00
84-inch diameter	1	Each	\$ 20,000.00
Adjust Structure	1	Each	\$ 2,500.00
Frame and Cover Replace	1	Each	\$ 950.00
Structure Reconstruct	1	Vertical Foot	\$ 850.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 1,800.00
Cleaning of Structures	1	Hourly	\$ 425.00
Drainage Structure Tap (up to 24")	1	Each	\$ 2,800.00
Clean and Seal Joints of Structures/box and wall ends	1	Linear Foot	\$ 75.00
Section P: End Sections Remove and Replace			
	Quantity	Unit	Unit Price
12-inch to 18-inch outlet	1	Each	\$ 2,500.00
21-inch to 30-inch outlet	1	Each	\$ 5,500.00
33-inch to 48-inch outlet	1	Each	\$ 9,500.00
54-inch to 66-inch outlet	1	Each	\$ 12,500.00
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	\$ 130.00

Operator	1	Hour	\$	120.00
Laborer	1	Hour	\$	86.00
Finisher	1	Hour	\$	95.00
Truck Driver	1	Hour	\$	85.00
Excavator M318 (equiv.)	1	Hour	\$	243.00
Excavator 325 (equiv.)	1	Hour	\$	260.00
Excavator 315 (equiv.)	1	Hour	\$	142.00
Excavator 308 (equiv.)	1	Hour	\$	120.00
Excavator 305 (equiv.)	1	Hour	\$	115.00
Loader 936 (equiv.)	1	Hour	\$	125.00
Backhoe	1	Hour	\$	98.00
Skid Steer	1	Hour	\$	60.00
Dump Truck 5 yard (equiv.)	1	Hour	\$	72.00
Quad Axle semi-dump	1	Hour	\$	72.00
Gravel Train	1	Hour	\$	83.00
Lowboy Trailer	1	Hour	\$	83.00
Foreman Pick-up	1	Hour	\$	30.00
Jobsite Pick-up	1	Hour	\$	20.00
Utility Truck w/tools	1	Hour	\$	63.00
Flatbed Truck	1	Hour	\$	43.00
Dozer	1	Hour	\$	175.00
Mini Excavator	1	Hour	\$	130.00
Hydro-Excavator	1	Hour	\$	395.00
Section S: Equipment	Quantity	Unit	Unit Price	
Generator	1	Day	\$	230.00
185 CFM compressor	1	Day	\$	243.00
Light Tower	1	Day	\$	245.00
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	\$	67.00
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	\$ 300.00
15"	1	Linear Foot	\$ 375.00
18"	1	Linear Foot	\$ 500.00
21"	1	Linear Foot	\$ 675.00
24"	1	Linear Foot	\$ 850.00
30"	1	Linear Foot	\$ 950.00
36"	1	Linear Foot	\$ 1,200.00
42"	1	Linear Foot	\$ 1,300.00
48"	1	Linear Foot	\$ 1,400.00
54"	1	Linear Foot	\$ 1,650.00
60"	1	Linear Foot	\$ 1,950.00
66"	1	Linear Foot	\$ 2,500.00
72"	1	Linear Foot	\$ 3,000.00

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	\$ 1,500.00
60"	1	Linear Foot	\$ 2,000.00
66"	1	Linear Foot	\$ 2,500.00
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



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

425 W. Ottawa Street, Lansing, MI 48933

P.O.Box 30050, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number 9

to

Contract Number 20000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48112
	David Carpenter, Jr.
	734-547-9236
	dcarpenter@corbyenergy.com
	VS0020117

STATE	Program Manager	James Roath	MDOT
		517-230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		517-230-1612	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2024	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☒	1 year	☐		May 10, 2025
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$36,500,000.00		\$9,000,000.00	\$45,500,000.00	
DESCRIPTION: Upon execution, Change Notice 9 to exercise the second option year, add additional repair types, materials, and resources, and add an additional \$9,000,000.00 to continue culvert rehabilitation and drainage restoration services until May 10, 2025. The original contract award was based on low bid, with the original contract value based on estimated need. . Per contractor and agency agreement. State Administrative Board approval dated 11/28/23.				

Contract No. 200000000843

Contract Change Notice #9

Contract Change Notice #9 to add line items for additional repair types, materials, resources, and hourly rates (to apply to specific drainage repairs where line items are not provided). These other types will provide additional means of repair for both culverts and their associated drainage parts. These items are as follows:

1. Mechanical Joint Seals: This item will supplement the need for large diameter joint seals. Change Notice #2, item #4, added internal joint seals to the contract. Since that time, there have been needs for larger diameter joint seals. This item will provide joint sealing of concrete and other rigid pipes. Mechanical joint seals are cheaper in price than CIPP pipe patches because they can be installed in one-foot increments.

- a. Regions: All
- b. Unit of Measure: Each
- c. Not to Exceed Price:
 - i. 96": \$11,000.00
 - ii. 108": \$11,750.00
 - iii. 120": \$12,225.00
 - iv. 132": \$13,000.00
 - v. 144": \$13,500.00

2. Slope Reinforcement Matting (SRM): SRM's come in various forms to meet the needs of every jobsite. This item provides soil erosion stabilization in high velocity flows, steep embankments, and can provide for a vegetative, reinforced driving lane.

- a. Regions: All
- b. Unit of Measure: Square Foot
- c. Not to Exceed Price: \$20.00

3. Cement Treated Aggregate: This will provide unit pricing for work that involves an as directed need, by MDOT, to use cement treated aggregate in certain roadway applications.

- a. Regions: All
- b. Unit of Measure: Ton
- c. Not to Exceed Price: \$185.00

4. Culvert End Cleanout: This item will be used to clean out the end of culverts that have blockages that are preventing the conveyance of stormwater flow, causing soil/slope saturation. Disposal, if required, will be paid for under the appropriate items.

- a. Regions: All
- b. Unit of Measure: EA
- c. Not to Exceed Price: \$3,500.00

5. Jet Filter: This item will be used to rehabilitate weep holes in existing culverts. Jet filter application eliminates soil migration through weep holes, relieves water pressure on culvert walls.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$1,000.00

6. Misc. Electric Materials: When necessary, these materials will be used to repair electrical issues related to culvert rehabilitation, drainage repairs, surface water mitigation.
 - a. Regions: All
 - b. Unit of Measure: LS
 - c. Not to Exceed Price: \$25,000.00



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

425 W. Ottawa Street, Lansing, MI 48933

P.O.Box 30050, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number 8

to

Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48112
	David Carpenter, Jr.
	734-547-9236
	dcarpenter@corbyenergy.com
	VS0020117

STATE	Program Manager	James Roath	MDOT
		517-230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		517-230-1612	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2024	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$36,500,000.00		\$0.00	\$36,500,000.00	
DESCRIPTION: Upon execution, the Contract is modified to add line items for additional repair types, materials, and resources for as needed culvert rehabilitation and drainage restoration services. All other specifications, and contract terms remain the same. Per contractor and agency agreement.				

Contract No. 200000000843

Contract Change Notice #8

Contract Change Notice #8 to add line items for additional repair types, materials, resources, and hourly rates (to apply to specific drainage repairs where line items are not provided). These other types will provide additional means of repair for both culverts and their associated drainage parts. These items are as follows:

1. Hand Chipping: This will provide unit pricing for work that involves the hand chipping of concrete culverts and or specialty hard surface work types that involve hand chipping.

Hand chipping will remove loose or damaged concrete.

- a. Regions: All
- b. Unit of Measure: LS
- c. Not to Exceed Price: \$60,000.00

2. Latex modified concrete patching mix: This item will be used to repair loose or damaged concrete surfaces (structural or had surface) that have been hand chipped or otherwise prepped to receive this material type.

- a. Regions: All
- b. Unit of Measure: CY
- c. Not to Exceed Price: \$24,000.00

3. Patch Forming: This item will be used to form patch work associated with hand chipped work that requires forming in order to complete the necessary patch work.

- a. Regions: All
- b. Unit of Measure: SF
- c. Not to Exceed Price: \$250.00

4. Adhesive Anchoring of up to #8 bent Anchor Bars Special:

- a. Regions: All
- b. Unit of Measure: EA
- c. Not to Exceed Price: \$235.00

5. Epoxy Coated Deformed Bars up to #8:

- a. Regions: All
- b. Unit of Measure: Pound
- c. Not to Exceed Price: \$25.00

6. Reinforcement Mechanical Splice:

- a. Regions: All
- b. Unit of Measure: EA (minimum of 5' per location)

c. Not to Exceed Price: \$660.00

7. Structural Concrete S2, formed, Special Existing structure:

a. Regions: All

b. Unit of Measure: CY

c. Not to Exceed Price: \$9,000.00

8. Joint Waterproofing:

a. Regions: All

b. Unit of Measure: SF

c. Not to Exceed Price: \$175.00

9. Temporary Bridge Work Walkway:

a. Regions: All

b. Unit of Measure: EA

c. Not to Exceed Price: \$13,500.00

10. Turbidity Curtain:

a. Regions: All

b. Unit of Measure: LF

c. Not to Exceed Price: \$80.00

11. Contractor Staking:

a. Regions: All

b. Unit of Measure: LS

c. Not to Exceed Price: \$16,000.00

12. Shoulder Class II:

a. Regions: All

b. Unit of Measure: TON

c. Not to Exceed Price: \$170.00

13. Project Clean-up:

a. Regions: All

b. Unit of Measure: LS

c. Not to Exceed Price: \$15,500.00

14. Wing Wall/End wall Modifications: Includes cost of labor to modify existing structure, sawing, removal, disposal.

a. Regions: All

b. Unit of Measure: LS

c. Not to Exceed Price: \$18,000.00

15. Hard Surface Pavement Removal: This item will cover the costs of hard surface removal where hard surface is not being replaced or replaced with different material type and/or thickness.

a. Regions: All

b. Unit of Measure: SY

c. Not to Exceed Price: \$55.00

16. Misc. Traffic Devices:

a. Regions: All

b. Unit of Measure: LS

c. Not to Exceed Price: \$10,000.00



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

425 W. Ottawa Street, Lansing, MI 48933

P.O.Box 30050, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number 7

to

Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48112
	David Carpenter, Jr.
	734-547-9236
	dcarpenter@corbyenergy.com
	VS0020117

STATE	Program Manager	James Roath	MDOT
		517-230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		517-230-1612	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2023	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☒	1 year	☐		May 10, 2024
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$28,500,000.00		\$8,000,000.00	\$36,500,000.00	
DESCRIPTION: Upon execution, Contract is exercising its first option year, increased by \$8,000,000.00 and adding line items for additional repair types, materials, and resources for as needed culvert rehabilitation and drainage restoration services. All other specifications, and contract terms remain the same. Per State Administrative Board approval March 14, 2023, agency, and Contractor agreement.				

Contract No. 200000000843

Contract Change Notice #7

Contract Change Notice #7 to add line items for additional repair types, materials, resources, and hourly rates (to apply to specific drainage repairs where line items are not provided). These other types will provide additional means of repair for both culverts and their associated drainage parts. These items are as follows:

1. Message Boards: When required by MDOT for specific work areas.
 - a. Regions: All
 - b. Unit of Measure: EA/Per week
 - c. Not to Exceed Price: \$2,900.00
2. Curb and Gutter: This will supplement the current contract.
 - a. Regions: All
 - b. Unit of Measure: LF
 - c. Not to Exceed Price: \$85.00
3. HMA patching: This item will provide unit pricing when for small areas that cannot be performed with a machine.
 - a. Regions: All
 - b. Unit of Measure: Ton
 - c. Not to Exceed Price: \$595.00
4. Turbidity Curtain: This item will be used as directed by MDOT.
 - a. Regions: All
 - b. Unit of Measure: LF
 - c. Not to Exceed Price: \$75.00
5. Labor / Equipment Rates (Hour): This item will be used in situations where existing unit prices do not cover needed work types.
 - a. Regions: All
 - b. Unit of Measure: Hourly
 - c. Not to Exceed Price:
 - i. Dozer: \$175.00
 - ii. Mini Excavator: \$130.00
6. Guardrail Remove and Replace Existing: This item will be used as directed by MDOT.
 - a. Regions: All
 - b. Unit of Measure: LF
 - c. Not to Exceed Price: \$30.00

7. Topsoil: This item will be used as required.
 - a. Regions: All
 - b. Unit of Measure: CY
 - c. Not to Exceed Price: \$85.00
8. Concrete Spillway: This item will supplement current MDOT pricing for areas requiring spillways.
 - a. Regions: All
 - b. Unit of Measure: LF
 - c. Not to Exceed Price: \$195.00
9. Geo-Web Slope Restoration: This item will provide unit pricing for areas that require Geo-web slope restoration.
 - a. Regions: All
 - b. Unit of Measure: SY
 - c. Not to Exceed Price: \$25.00
10. Watering Vegetation: This item will provide for vegetation watering as required by MDOT.
 - a. Regions: All
 - b. Unit of Measure: Hourly
 - c. Not to Exceed Price: \$225.00
11. Hydro-Excavator: This item will provide unit pricing as required by MDOT.
 - a. Regions: All
 - b. Unit of Measure: Hourly
 - c. Not to Exceed Price: \$395.00
12. Embankment/Class II Fill: This item will be provided for slope drainage, underdrains, and storm line repairs / improvements.
 - a. Regions: All
 - b. Unit of Measure: CY
 - c. Not to Exceed Price: \$75.00
13. Drainage Structure Tap (up to 24"): This item will provide unit pricing for this work type.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$2,800.00
14. Geo-Fabric: This item will provide pricing for this work type.
 - a. Regions: All
 - b. Unit of Measure: SY
 - c. Not to Exceed Price: \$7.00

15. Concrete Shoulder Gutter: This item will provide unit pricing for this work type.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$2,000.00

16. Detectable Warning Surface ADA Tile: This will provide unit pricing for this work type.
 - a. Regions: All
 - b. Unit of Measure: SF
 - c. Not to Exceed Price: \$60.00

17. Temporary traffic signals delivered/set-up: This item will be used as directed by MDOT.
 - a. Regions: All
 - b. Unit of Measure: Each
 - c. Not to Exceed Price: \$7,500.00

18. Temporary traffic signals operational: This item will be used as directed by MDOT.
 - a. Regions: All
 - b. Unit of Measure: Each/per week
 - c. Not to Exceed Price: \$3,500.00

19. Barrier Wall Repair: This will provide unit pricing for this work type as required for specific projects.
 - a. Regions: All
 - b. Unit of Measure: LF (minimum of 5' per location)
 - c. Not to Exceed Price: \$1,590.00

20. Coring and Raising Frame and Cover: This item will be used as directed by MDOT.
 - a. Regions: All
 - b. Unit of Measure: Each
 - c. Not to Exceed Price: \$7,200.00



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation
425 W. Ottawa Street, Lansing, MI 48933
P.O. Box 30050, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number 6
to
Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48111
	David Carpenter, Jr.
	734-547-9236
	dcarpenter@corbyenergy.com
	VS0020117

STATE	Program Manager	James Roath	MDOT
		517-230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		517-230-1612	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2023	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$21,500,000.00		\$7,000,000.00	\$28,500,000.00	
DESCRIPTION: Effective August 16, 2022, the following changes were made to this Contract: 1. The Contract value is increased \$7,000,000.00 for as needed culvert rehabilitation and drainage restoration services for the Michigan Department of Transportation.				
All other terms, conditions and specifications remain the same. Per Contractor and Agency agreement. State Administrative Board approval dated August 16, 2022.				



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

425 W. Ottawa, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number 5

to

Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48111
	David Carpenter, Jr.
	734-547-9236
	dcarpenter@corbyenergy.com
	CXXXXX01117

STATE	Program Manager	James Roath	MDOT
		(517) 230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		517-230-1612	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2023	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$21,500,000.00		\$0.00	\$21,500,000.00	
DESCRIPTION: Effective April 29, 2022 new repair types/ line items are being added to the Contract per Attachment A, and revised Schedule B, Pricing Sheets. All other specifications, term and conditions remain the same.				

Contract Number 200000000843
Change Notice 5
Culvert Rehabilitation and Drainage Restoration
Attachment A

This Change Notice addresses other repair types, materials, resources, and hourly rates for repair of both culverts and their associated drainage parts. These items are as follows:

1. Temporary steel sheeting: This item provides both roadway and slope protection when repairing certain culverts, end sections, or other. The temporary sheeting maintains the integrity of the existing MDOT assets during the work (roadway, guardrail, slopes).
 - a. Regions: All
 - b. Unit of Measure: Square Foot
 - c. Not to Exceed Price: \$40.00
2. Clearing and grubbing: This item will provide the ability to clear out overgrown vegetation, brush, and other foliage from culvert and drainage repair areas.
 - a. Regions: All
 - b. Unit of Measure: Lump Sum
 - c. Not to Exceed Price: \$7,500.00
3. Slope restoration: This item will provide for proper slope restoration to projects that have been impacted by culvert and drainage defects (as well as to areas of proposed repair work).
 - a. Regions: All
 - b. Unit of Measure: Square Yard
 - c. Not to Exceed Price: \$15.00
4. Concrete cloth: This item will be provided, as directed, for culverts that have deteriorated inverts.
 - a. Regions: All
 - b. Unit of Measure: Square Foot
 - c. Not to Exceed Price: \$25.00
5. Labor / Equipment Rates (Hour): This item will be used in situations where existing unit prices do not exist.
 - a. Regions: All
 - b. Unit of Measure: Hourly
 - c. Not to Exceed Price:
 - i. Supervisor: \$150.00

- ii. Foreman: \$130.00
- iii. Operator: \$120.00
- iv. Laborer: \$86.00
- v. Finisher: \$95.00
- vi. Truck Driver: \$85.00
- vii. Exc. M318 (equiv.): \$243.00
- viii. Exc. 325 (equiv.): \$260.00
- ix. Exc. 315 (equiv.): \$142.00
- x. Exc. 308 (equiv.): \$120.00
- xi. Exc. 305 (equiv.): \$115.00
- xii. Loader 936 (equiv.): \$125.00
- xiii. Backhoe: \$98.00
- xiv. Skid Steer: \$60.00
- xv. Dump Truck 5 yard (equiv.): \$72.00
- xvi. Quad Axle semi-dump: \$72.00
- xvii. Gravel Train: \$83.00
- xviii. Lowboy Trailer: \$83.00
- xix. Foreman Pick-up: \$30.00
- xx. Jobsite pick-up: \$20.00
- xxi. Utility truck w/tools: \$63.00
- xxii. Flatbed truck: \$43.00

6. Equipment Rates (Day): This item will be used where existing unit prices do not exist.

- a. Regions: All
- b. Unit of Measure: Day
- c. Not to Exceed Price:
 - i. Generator: \$230.00
 - ii. 185 CFM compressor: \$243.00
 - iii. Light Tower: \$245.00
 - iv. Concrete Saw: \$300.00
 - v. Pipe Saw: \$70.00
 - vi. Plate compactor: \$113.00
 - vii. Misc. tools (jackhammers/spades/drills): \$120.00
 - viii. Steel plates: \$67.00
 - ix. Traffic Barrell: \$10.00

7. Clean drainage structures: This item will be provided to clean catch basins, manholes, sumps for end sections and headwalls.

- a. Regions: All
- b. Unit of Measure: Hourly
- c. Not to Exceed Price: \$425.00

8. Drainage frame and cover: This item will be provided to replace damaged frame and covers.

- a. Regions: All
- b. Unit of Measure: Each
- c. Not to Exceed Price: \$950.00

9. Joint Contraction: This item will be provided for hard surface contraction joints.
 - a. Regions: All
 - b. Unit of Measure: Linear Foot
 - c. Not to Exceed Price: \$20.00
10. Drainage Structure Reconstruct: This item will be provided to reconstruct existing drainage structures.
 - a. Regions: All
 - b. Unit of Measure: Vertical Foot
 - c. Not to Exceed Price: \$850.00
11. Ditch Grading: This item will be provided for cleaning and re-aligning ditches.
 - a. Regions: All
 - b. Unit of Measure: Linear Foot
 - c. Not to Exceed Price: \$50.00
12. MDOT Required Traffic Detour: This item will be provided to establish traffic detours when required by MDOT in order for particular repairs/improvements.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$20,000.00
13. Drainage Pipe-Six-Inch: This item will be provided for slope drainage, underdrains, and storm line repairs / improvements.
 - a. Regions: All
 - b. Unit of Measure: Linear Foot
 - c. Not to Exceed Price: \$75.00
14. French Drains: This item will be provided as directed.
 - a. Regions: All
 - b. Unit of Measure: EA
 - c. Not to Exceed Price: \$1,800.00
15. Concrete Barrier Temporary: This item will be provided as directed.
 - a. Regions: All
 - b. Unit of Measure: LF
 - c. Not to Exceed Price: \$175.00
16. Formed Concrete: This item will be provided for forming spillways, splash pads, or other related items not covered under unit prices.
 - a. Regions: All
 - b. Unit of Measure: CY
 - c. Not to Exceed Price: \$1,750.00

17. Slope Paving: This item will be provided as directed.

- a. Regions: All
- b. Unit of Measure: SY
- c. Not to Exceed Price: \$230.00

18. Glare Screen Repair: This item will be provided as directed.

- a. Regions: All
- b. Unit of Measure: LF
- c. Not to Exceed Price:
 - i. \$2,000.00 (1 – 5')
 - ii. \$1,500.00 (6 – 10')
 - iii. \$1,000.00 (11 – 15')
 - iv. \$750.00 (16 – 20')

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	\$ 95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 8.00
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	\$ 13.00
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	\$ 30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 15.00
Timber Matting for Setup	1	Square Yard	\$ 225.00
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	\$ 550.00
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	\$ 5,200.00
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	\$ 7,500.00
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	\$ 135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 4,500.00

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	\$ 800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,000.00

12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 125.00

Section D: Polyethylene (PE) Slip Lining - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 55.00
6-inch diameter	1	Linear Foot	\$ 65.00
8-inch diameter	1	Linear Foot	\$ 75.00
10-inch diameter	1	Linear Foot	\$ 85.00
12-inch diameter	1	Linear Foot	\$ 90.00
18-inch diameter	1	Linear Foot	\$ 100.00
24-inch diameter	1	Linear Foot	\$ 150.00
30-inch diameter	1	Linear Foot	\$ 225.00
36-inch diameter	1	Linear Foot	\$ 310.00
42-inch diameter	1	Linear Foot	\$ 400.00
48-inch diameter	1	Linear Foot	\$ 450.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 325.00
Bulkheads	1	Each	\$ 500.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$ 125.00
8-inch diameter	1	Linear Foot	\$ 125.00
10-inch diameter	1	Linear Foot	\$ 150.00
12-inch diameter	1	Linear Foot	\$ 175.00
14-inch diameter	1	Linear Foot	\$ 200.00
16-inch diameter	1	Linear Foot	\$ 250.00
18-inch diameter	1	Linear Foot	\$ 275.00

20-inch diameter	1	Linear Foot	\$ 300.00
24-inch diameter	1	Linear Foot	\$ 500.00
30-inch diameter	1	Linear Foot	\$ 750.00
36-inch diameter	1	Linear Foot	\$ 1,000.00
42-inch diameter	1	Linear Foot	\$ 1,500.00
48-inch diameter	1	Linear Foot	\$ 1,750.00
54-inch diameter	1	Linear Foot	\$ 2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$ 25,000.00

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	\$ 750.00
20-inch diameter	1	Each	\$ 1,000.00

Section G: Manhole Rehabilitation - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 38.00

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	\$ 20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
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	\$ 425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00

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 - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 125.00

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	\$ 11.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 14.50
Temporary Steel Sheeting	1	Square Foot	\$ 40.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 10.00
4 to 6 feet deep	1	Cubic Foot	\$ 15.00
6 to 10 feet deep	1	Cubic Foot	\$ 20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 1,000.00
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	\$ 0.25
Straw Matting	1	Square Foot	\$ 0.40
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 35.00

10-inch concrete	1	Square Foot	\$ 40.00
12-inch concrete	1	Square Foot	\$ 45.00
2-inch asphalt	1	Square Foot	\$ 25.00
3-inch asphalt	1	Square Foot	\$ 30.00
4-inch asphalt	1	Square Foot	\$ 35.00
6-inch asphalt	1	Square Foot	\$ 40.00
8-inch asphalt	1	Square Foot	\$ 45.00
10-inch asphalt	1	Square Foot	\$ 50.00
12-inch asphalt	1	Square Foot	\$ 55.00
Saw Cut	1	Linear Foot	\$ 7.50
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 15.00
Ditch Grading	1	Linear Foot	\$ 50.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 50.00
Rip Rap	1	Ton	\$ 150.00
Sand	1	Ton	\$ 50.00
Gravel	1	Ton	\$ 50.00
21AA	1	Ton	\$ 50.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 300.00
f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 5.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,460.00
Arrow Board	1	Each Day	\$ 66.00
Traffic Lane Shift	1	Each	\$ 1,500.00
Traffic Control Plan (certified)	1	Each	\$ 780.00
Traffic Detour	1	Each	\$ 20,000.00
g) Miscellaneous			
Tree Removal	1	Each	\$ 5,000.00
Permit Fees	1	Each	\$ 2,500.00
Water Charges	1	Each	\$ 3,000.00
Disposal Fees	1	Each	\$ 4,500.00
Concrete Barrier Temporary	1	Linear Foot	\$ 175.00
Formed Concrete	1	Cubic Yard	\$ 1,750.00
Slope Paving	1	Square Yard	\$ 230.00
Clearing and grubbing	1	Each	\$ 7,500.00

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	\$ 125.00
Administrative services	1	Hour	\$ 95.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,200.00
27-inch diameter	1	Each	\$ 3,300.00
30-inch diameter	1	Each	\$ 3,400.00
33-inch diameter	1	Each	\$ 3,550.00
36-inch diameter	1	Each	\$ 3,600.00
42-inch diameter	1	Each	\$ 3,800.00
48-inch diameter	1	Each	\$ 3,900.00
54-inch diameter	1	Each	\$ 4,500.00
60-inch diameter	1	Each	\$ 5,000.00
66-inch diameter	1	Each	\$ 7,500.00
72-inch diameter	1	Each	\$ 8,250.00
78-inch diameter	1	Each	\$ 9,000.00
84-inch diameter	1	Each	\$ 9,500.00
Joint Contraction	1	Linear Foot	\$ 20.00

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 95.00
10-inch diameter	1	Square Foot	\$ 100.00
12-inch diameter	1	Square Foot	\$ 105.00
15-inch diameter	1	Square Foot	\$ 110.00
18-inch diameter	1	Square Foot	\$ 120.00
24-inch diameter	1	Square Foot	\$ 160.00
30-inch diameter	1	Square Foot	\$ 225.00
36-inch diameter	1	Square Foot	\$ 325.00
42-inch diameter	1	Square Foot	\$ 400.00
48-inch diameter	1	Square Foot	\$ 525.00
54-inch diameter	1	Square Foot	\$ 800.00
60-inch diameter	1	Square Foot	\$ 900.00

66-inch diameter	1	Square Foot	\$ 1,000.00
72-inch diameter	1	Square Foot	\$ 1,250.00
78-inch diameter	1	Square Foot	\$ 1,500.00
84-inch diameter	1	Square Foot	\$ 1,750.00

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,500.00
36-inch diameter	1	Each	\$ 6,500.00
48-inch diameter	1	Each	\$ 9,500.00
60-inch diameter	1	Each	\$ 12,500.00
72-inch diameter	1	Each	\$ 15,000.00
84-inch diameter	1	Each	\$ 20,000.00
Adjust Structure	1	Each	\$ 2,500.00
Frame and Cover Replace	1	Each	\$ 950.00
Structure Reconstruct	1	Vertical Foot	\$ 850.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 1,800.00
Cleaning of Structures	1	Hourly	\$ 425.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet	1	Each	\$ 2,500.00
21-inch to 30-inch outlet	1	Each	\$ 5,500.00
33-inch to 48-inch outlet	1	Each	\$ 9,500.00
54-inch to 66-inch outlet	1	Each	\$ 12,500.00

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	\$ 130.00
Operator	1	Hour	\$ 120.00
Laborer	1	Hour	\$ 86.00
Finisher	1	Hour	\$ 95.00
Truck Driver	1	Hour	\$ 85.00
Excavator M318 (equiv.)	1	Hour	\$ 243.00
Excavator 325 (equiv.)	1	Hour	\$ 260.00
Excavator 315 (equiv.)	1	Hour	\$ 142.00
Excavator 308 (equiv.)	1	Hour	\$ 120.00
Excavator 305 (equiv.)	1	Hour	\$ 115.00
Loader 936 (equiv.)	1	Hour	\$ 125.00
Backhoe	1	Hour	\$ 98.00
Skid Steer	1	Hour	\$ 60.00
Dump Truck 5 yard (equiv.)	1	Hour	\$ 72.00
Quad Axle semi-dump	1	Hour	\$ 72.00
Gravel Train	1	Hour	\$ 83.00
Lowboy Trailer	1	Hour	\$ 83.00
Foreman Pick-up	1	Hour	\$ 30.00
Jobsite Pick-up	1	Hour	\$ 20.00

Utility Truck w/tools	1	Hour	\$ 63.00
Flatbed Truck	1	Hour	\$ 43.00
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 230.00
185 CFM compressor	1	Day	\$ 243.00
Light Tower	1	Day	\$ 245.00
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	\$ 67.00
Traffic Barrell	1	Day	\$ 10.00
Section T: Glare Screen Repair			
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

All unit prices are not to exceed pricing. Vendor must allow for lower pricing to be available for similar product and service purchases. **\$ 427,902.65**

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	\$ 95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 8.00
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	\$ 13.00
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	\$ 30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 15.00
Timber Matting for Setup	1	Square Yard	\$ 225.00
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	\$ 550.00
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	\$ 5,200.00
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	\$ 7,500.00
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	\$ 135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 4,500.00

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	\$ 800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,000.00

12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 125.00

Section D: Polyethylene (PE) Slip Lining - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 55.00
6-inch diameter	1	Linear Foot	\$ 65.00
8-inch diameter	1	Linear Foot	\$ 75.00
10-inch diameter	1	Linear Foot	\$ 85.00
12-inch diameter	1	Linear Foot	\$ 90.00
18-inch diameter	1	Linear Foot	\$ 100.00
24-inch diameter	1	Linear Foot	\$ 150.00
30-inch diameter	1	Linear Foot	\$ 225.00
36-inch diameter	1	Linear Foot	\$ 310.00
42-inch diameter	1	Linear Foot	\$ 400.00
48-inch diameter	1	Linear Foot	\$ 450.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 325.00
Bulkheads	1	Each	\$ 500.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$ 125.00
8-inch diameter	1	Linear Foot	\$ 125.00
10-inch diameter	1	Linear Foot	\$ 150.00
12-inch diameter	1	Linear Foot	\$ 175.00
14-inch diameter	1	Linear Foot	\$ 200.00
16-inch diameter	1	Linear Foot	\$ 250.00
18-inch diameter	1	Linear Foot	\$ 275.00

20-inch diameter	1	Linear Foot	\$ 300.00
24-inch diameter	1	Linear Foot	\$ 500.00
30-inch diameter	1	Linear Foot	\$ 750.00
36-inch diameter	1	Linear Foot	\$ 1,000.00
42-inch diameter	1	Linear Foot	\$ 1,500.00
48-inch diameter	1	Linear Foot	\$ 1,750.00
54-inch diameter	1	Linear Foot	\$ 2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$ 25,000.00

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	\$ 750.00
20-inch diameter	1	Each	\$ 1,000.00

Section G: Manhole Rehabilitation - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 38.00

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	\$ 20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
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	\$ 425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00

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 - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 125.00

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	\$ 11.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 14.50
Temporary Steel Sheeting	1	Square Foot	\$ 40.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 10.00
4 to 6 feet deep	1	Cubic Foot	\$ 15.00
6 to 10 feet deep	1	Cubic Foot	\$ 20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 1,000.00
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	\$ 0.25
Straw Matting	1	Square Foot	\$ 0.40
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 35.00

10-inch concrete	1	Square Foot	\$ 40.00
12-inch concrete	1	Square Foot	\$ 45.00
2-inch asphalt	1	Square Foot	\$ 25.00
3-inch asphalt	1	Square Foot	\$ 30.00
4-inch asphalt	1	Square Foot	\$ 35.00
6-inch asphalt	1	Square Foot	\$ 40.00
8-inch asphalt	1	Square Foot	\$ 45.00
10-inch asphalt	1	Square Foot	\$ 50.00
12-inch asphalt	1	Square Foot	\$ 55.00
Saw Cut	1	Linear Foot	\$ 7.50
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 15.00
Ditch Grading	1	Linear Foot	\$ 50.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 50.00
Rip Rap	1	Ton	\$ 150.00
Sand	1	Ton	\$ 50.00
Gravel	1	Ton	\$ 50.00
21AA	1	Ton	\$ 50.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 300.00
f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 5.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,460.00
Arrow Board	1	Each Day	\$ 66.00
Traffic Lane Shift	1	Each	\$ 1,500.00
Traffic Control Plan (certified)	1	Each	\$ 780.00
Traffic Detour	1	Each	\$ 20,000.00
g) Miscellaneous			
Tree Removal	1	Each	\$ 5,000.00
Permit Fees	1	Each	\$ 2,500.00
Water Charges	1	Each	\$ 3,000.00
Disposal Fees	1	Each	\$ 4,500.00
Concrete Barrier Temporary	1	Linear Foot	\$ 175.00
Formed Concrete	1	Cubic Yard	\$ 1,750.00
Slope Paving	1	Square Yard	\$ 230.00
Clearing and grubbing	1	Each	\$ 7,500.00

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	\$ 125.00
Administrative services	1	Hour	\$ 95.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,200.00
27-inch diameter	1	Each	\$ 3,300.00
30-inch diameter	1	Each	\$ 3,400.00
33-inch diameter	1	Each	\$ 3,550.00
36-inch diameter	1	Each	\$ 3,600.00
42-inch diameter	1	Each	\$ 3,800.00
48-inch diameter	1	Each	\$ 3,900.00
54-inch diameter	1	Each	\$ 4,500.00
60-inch diameter	1	Each	\$ 5,000.00
66-inch diameter	1	Each	\$ 7,500.00
72-inch diameter	1	Each	\$ 8,250.00
78-inch diameter	1	Each	\$ 9,000.00
84-inch diameter	1	Each	\$ 9,500.00
Joint Contraction	1	Linear Foot	\$ 20.00

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 95.00
10-inch diameter	1	Square Foot	\$ 100.00
12-inch diameter	1	Square Foot	\$ 105.00
15-inch diameter	1	Square Foot	\$ 110.00
18-inch diameter	1	Square Foot	\$ 120.00
24-inch diameter	1	Square Foot	\$ 160.00
30-inch diameter	1	Square Foot	\$ 225.00
36-inch diameter	1	Square Foot	\$ 325.00
42-inch diameter	1	Square Foot	\$ 400.00
48-inch diameter	1	Square Foot	\$ 525.00
54-inch diameter	1	Square Foot	\$ 800.00
60-inch diameter	1	Square Foot	\$ 900.00

66-inch diameter	1	Square Foot	\$ 1,000.00
72-inch diameter	1	Square Foot	\$ 1,250.00
78-inch diameter	1	Square Foot	\$ 1,500.00
84-inch diameter	1	Square Foot	\$ 1,750.00

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,500.00
36-inch diameter	1	Each	\$ 6,500.00
48-inch diameter	1	Each	\$ 9,500.00
60-inch diameter	1	Each	\$ 12,500.00
72-inch diameter	1	Each	\$ 15,000.00
84-inch diameter	1	Each	\$ 20,000.00
Adjust Structure	1	Each	\$ 2,500.00
Frame and Cover Replace	1	Each	\$ 950.00
Structure Reconstruct	1	Vertical Foot	\$ 850.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 1,800.00
Cleaning of Structures	1	Hourly	\$ 425.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet	1	Each	\$ 2,500.00
21-inch to 30-inch outlet	1	Each	\$ 5,500.00
33-inch to 48-inch outlet	1	Each	\$ 9,500.00
54-inch to 66-inch outlet	1	Each	\$ 12,500.00

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	\$ 130.00
Operator	1	Hour	\$ 120.00
Laborer	1	Hour	\$ 86.00
Finisher	1	Hour	\$ 95.00
Truck Driver	1	Hour	\$ 85.00
Excavator M318 (equiv.)	1	Hour	\$ 243.00
Excavator 325 (equiv.)	1	Hour	\$ 260.00
Excavator 315 (equiv.)	1	Hour	\$ 142.00
Excavator 308 (equiv.)	1	Hour	\$ 120.00
Excavator 305 (equiv.)	1	Hour	\$ 115.00
Loader 936 (equiv.)	1	Hour	\$ 125.00
Backhoe	1	Hour	\$ 98.00
Skid Steer	1	Hour	\$ 60.00
Dump Truck 5 yard (equiv.)	1	Hour	\$ 72.00
Quad Axle semi-dump	1	Hour	\$ 72.00
Gravel Train	1	Hour	\$ 83.00
Lowboy Trailer	1	Hour	\$ 83.00
Foreman Pick-up	1	Hour	\$ 30.00
Jobsite Pick-up	1	Hour	\$ 20.00

Utility Truck w/tools	1	Hour	\$ 63.00
Flatbed Truck	1	Hour	\$ 43.00
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 230.00
185 CFM compressor	1	Day	\$ 243.00
Light Tower	1	Day	\$ 245.00
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	\$ 67.00
Traffic Barrell	1	Day	\$ 10.00
Section T: Glare Screen Repair			
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

All unit prices are not to exceed pricing. Vendor must allow for lower pricing to be available for similar product and service purchases. **\$ 427,902.65**

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	\$ 95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 8.00
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	\$ 13.00
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	\$ 30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 15.00
Timber Matting for Setup	1	Square Yard	\$ 225.00
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	\$ 550.00
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	\$ 5,200.00
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	\$ 7,500.00
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	\$ 135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 4,500.00

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	\$ 800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,000.00

12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 125.00

Section D: Polyethylene (PE) Slip Lining - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 55.00
6-inch diameter	1	Linear Foot	\$ 65.00
8-inch diameter	1	Linear Foot	\$ 75.00
10-inch diameter	1	Linear Foot	\$ 85.00
12-inch diameter	1	Linear Foot	\$ 90.00
18-inch diameter	1	Linear Foot	\$ 100.00
24-inch diameter	1	Linear Foot	\$ 150.00
30-inch diameter	1	Linear Foot	\$ 225.00
36-inch diameter	1	Linear Foot	\$ 310.00
42-inch diameter	1	Linear Foot	\$ 400.00
48-inch diameter	1	Linear Foot	\$ 450.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 325.00
Bulkheads	1	Each	\$ 500.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$ 125.00
8-inch diameter	1	Linear Foot	\$ 125.00
10-inch diameter	1	Linear Foot	\$ 150.00
12-inch diameter	1	Linear Foot	\$ 175.00
14-inch diameter	1	Linear Foot	\$ 200.00
16-inch diameter	1	Linear Foot	\$ 250.00
18-inch diameter	1	Linear Foot	\$ 275.00

20-inch diameter	1	Linear Foot	\$ 300.00
24-inch diameter	1	Linear Foot	\$ 500.00
30-inch diameter	1	Linear Foot	\$ 750.00
36-inch diameter	1	Linear Foot	\$ 1,000.00
42-inch diameter	1	Linear Foot	\$ 1,500.00
48-inch diameter	1	Linear Foot	\$ 1,750.00
54-inch diameter	1	Linear Foot	\$ 2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$ 25,000.00

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	\$ 750.00
20-inch diameter	1	Each	\$ 1,000.00

Section G: Manhole Rehabilitation - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 38.00

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	\$ 20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
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	\$ 425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00

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 - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 125.00

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	\$ 11.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 14.50
Temporary Steel Sheet piling	1	Square Foot	\$ 40.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 10.00
4 to 6 feet deep	1	Cubic Foot	\$ 15.00
6 to 10 feet deep	1	Cubic Foot	\$ 20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 1,000.00
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	\$ 0.25
Straw Matting	1	Square Foot	\$ 0.40
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 35.00

10-inch concrete	1	Square Foot	\$ 40.00
12-inch concrete	1	Square Foot	\$ 45.00
2-inch asphalt	1	Square Foot	\$ 25.00
3-inch asphalt	1	Square Foot	\$ 30.00
4-inch asphalt	1	Square Foot	\$ 35.00
6-inch asphalt	1	Square Foot	\$ 40.00
8-inch asphalt	1	Square Foot	\$ 45.00
10-inch asphalt	1	Square Foot	\$ 50.00
12-inch asphalt	1	Square Foot	\$ 55.00
Saw Cut	1	Linear Foot	\$ 7.50
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 15.00
Ditch Grading	1	Linear Foot	\$ 50.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 50.00
Rip Rap	1	Ton	\$ 150.00
Sand	1	Ton	\$ 50.00
Gravel	1	Ton	\$ 50.00
21AA	1	Ton	\$ 50.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 300.00
f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 5.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,460.00
Arrow Board	1	Each Day	\$ 66.00
Traffic Lane Shift	1	Each	\$ 1,500.00
Traffic Control Plan (certified)	1	Each	\$ 780.00
Traffic Detour	1	Each	\$ 20,000.00
g) Miscellaneous			
Tree Removal	1	Each	\$ 5,000.00
Permit Fees	1	Each	\$ 2,500.00
Water Charges	1	Each	\$ 3,000.00
Disposal Fees	1	Each	\$ 4,500.00
Concrete Barrier Temporary	1	Linear Foot	\$ 175.00
Formed Concrete	1	Cubic Yard	\$ 1,750.00
Slope Paving	1	Square Yard	\$ 230.00
Clearing and grubbing	1	Each	\$ 7,500.00

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	\$ 125.00
Administrative services	1	Hour	\$ 95.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,200.00
27-inch diameter	1	Each	\$ 3,300.00
30-inch diameter	1	Each	\$ 3,400.00
33-inch diameter	1	Each	\$ 3,550.00
36-inch diameter	1	Each	\$ 3,600.00
42-inch diameter	1	Each	\$ 3,800.00
48-inch diameter	1	Each	\$ 3,900.00
54-inch diameter	1	Each	\$ 4,500.00
60-inch diameter	1	Each	\$ 5,000.00
66-inch diameter	1	Each	\$ 7,500.00
72-inch diameter	1	Each	\$ 8,250.00
78-inch diameter	1	Each	\$ 9,000.00
84-inch diameter	1	Each	\$ 9,500.00
Joint Contraction	1	Linear Foot	\$ 20.00

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 95.00
10-inch diameter	1	Square Foot	\$ 100.00
12-inch diameter	1	Square Foot	\$ 105.00
15-inch diameter	1	Square Foot	\$ 110.00
18-inch diameter	1	Square Foot	\$ 120.00
24-inch diameter	1	Square Foot	\$ 160.00
30-inch diameter	1	Square Foot	\$ 225.00
36-inch diameter	1	Square Foot	\$ 325.00
42-inch diameter	1	Square Foot	\$ 400.00
48-inch diameter	1	Square Foot	\$ 525.00
54-inch diameter	1	Square Foot	\$ 800.00
60-inch diameter	1	Square Foot	\$ 900.00

66-inch diameter	1	Square Foot	\$ 1,000.00
72-inch diameter	1	Square Foot	\$ 1,250.00
78-inch diameter	1	Square Foot	\$ 1,500.00
84-inch diameter	1	Square Foot	\$ 1,750.00

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,500.00
36-inch diameter	1	Each	\$ 6,500.00
48-inch diameter	1	Each	\$ 9,500.00
60-inch diameter	1	Each	\$ 12,500.00
72-inch diameter	1	Each	\$ 15,000.00
84-inch diameter	1	Each	\$ 20,000.00
Adjust Structure	1	Each	\$ 2,500.00
Frame and Cover Replace	1	Each	\$ 950.00
Structure Reconstruct	1	Vertical Foot	\$ 850.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 1,800.00
Cleaning of Structures	1	Hourly	\$ 425.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet	1	Each	\$ 2,500.00
21-inch to 30-inch outlet	1	Each	\$ 5,500.00
33-inch to 48-inch outlet	1	Each	\$ 9,500.00
54-inch to 66-inch outlet	1	Each	\$ 12,500.00

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	\$ 130.00
Operator	1	Hour	\$ 120.00
Laborer	1	Hour	\$ 86.00
Finisher	1	Hour	\$ 95.00
Truck Driver	1	Hour	\$ 85.00
Excavator M318 (equiv.)	1	Hour	\$ 243.00
Excavator 325 (equiv.)	1	Hour	\$ 260.00
Excavator 315 (equiv.)	1	Hour	\$ 142.00
Excavator 308 (equiv.)	1	Hour	\$ 120.00
Excavator 305 (equiv.)	1	Hour	\$ 115.00
Loader 936 (equiv.)	1	Hour	\$ 125.00
Backhoe	1	Hour	\$ 98.00
Skid Steer	1	Hour	\$ 60.00
Dump Truck 5 yard (equiv.)	1	Hour	\$ 72.00
Quad Axle semi-dump	1	Hour	\$ 72.00
Gravel Train	1	Hour	\$ 83.00
Lowboy Trailer	1	Hour	\$ 83.00
Foreman Pick-up	1	Hour	\$ 30.00
Jobsite Pick-up	1	Hour	\$ 20.00

Utility Truck w/tools	1	Hour	\$ 63.00
Flatbed Truck	1	Hour	\$ 43.00
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 230.00
185 CFM compressor	1	Day	\$ 243.00
Light Tower	1	Day	\$ 245.00
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	\$ 67.00
Traffic Barrell	1	Day	\$ 10.00
Section T: Glare Screen Repair			
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

All unit prices are not to exceed pricing. Vendor must allow for lower pricing to be available for similar product and service purchases. **\$ 427,902.65**

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	\$ 95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 8.00
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	\$ 13.00
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	\$ 30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 15.00
Timber Matting for Setup	1	Square Yard	\$ 225.00
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	\$ 550.00
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	\$ 5,200.00
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	\$ 7,500.00
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	\$ 135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 4,500.00

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	\$ 800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,000.00

12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 125.00

Section D: Polyethylene (PE) Slip Lining - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 55.00
6-inch diameter	1	Linear Foot	\$ 65.00
8-inch diameter	1	Linear Foot	\$ 75.00
10-inch diameter	1	Linear Foot	\$ 85.00
12-inch diameter	1	Linear Foot	\$ 90.00
18-inch diameter	1	Linear Foot	\$ 100.00
24-inch diameter	1	Linear Foot	\$ 150.00
30-inch diameter	1	Linear Foot	\$ 225.00
36-inch diameter	1	Linear Foot	\$ 310.00
42-inch diameter	1	Linear Foot	\$ 400.00
48-inch diameter	1	Linear Foot	\$ 450.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 325.00
Bulkheads	1	Each	\$ 500.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$ 125.00
8-inch diameter	1	Linear Foot	\$ 125.00
10-inch diameter	1	Linear Foot	\$ 150.00
12-inch diameter	1	Linear Foot	\$ 175.00
14-inch diameter	1	Linear Foot	\$ 200.00
16-inch diameter	1	Linear Foot	\$ 250.00
18-inch diameter	1	Linear Foot	\$ 275.00

20-inch diameter	1	Linear Foot	\$ 300.00
24-inch diameter	1	Linear Foot	\$ 500.00
30-inch diameter	1	Linear Foot	\$ 750.00
36-inch diameter	1	Linear Foot	\$ 1,000.00
42-inch diameter	1	Linear Foot	\$ 1,500.00
48-inch diameter	1	Linear Foot	\$ 1,750.00
54-inch diameter	1	Linear Foot	\$ 2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$ 25,000.00

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	\$ 750.00
20-inch diameter	1	Each	\$ 1,000.00

Section G: Manhole Rehabilitation - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 38.00

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	\$ 20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
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	\$ 425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00

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 - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 125.00

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	\$ 11.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 14.50
Temporary Steel Sheet piling	1	Square Foot	\$ 40.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 10.00
4 to 6 feet deep	1	Cubic Foot	\$ 15.00
6 to 10 feet deep	1	Cubic Foot	\$ 20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 1,000.00
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	\$ 0.25
Straw Matting	1	Square Foot	\$ 0.40
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 35.00

10-inch concrete	1	Square Foot	\$ 40.00
12-inch concrete	1	Square Foot	\$ 45.00
2-inch asphalt	1	Square Foot	\$ 25.00
3-inch asphalt	1	Square Foot	\$ 30.00
4-inch asphalt	1	Square Foot	\$ 35.00
6-inch asphalt	1	Square Foot	\$ 40.00
8-inch asphalt	1	Square Foot	\$ 45.00
10-inch asphalt	1	Square Foot	\$ 50.00
12-inch asphalt	1	Square Foot	\$ 55.00
Saw Cut	1	Linear Foot	\$ 7.50
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 15.00
Ditch Grading	1	Linear Foot	\$ 50.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 50.00
Rip Rap	1	Ton	\$ 150.00
Sand	1	Ton	\$ 50.00
Gravel	1	Ton	\$ 50.00
21AA	1	Ton	\$ 50.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 300.00
f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 5.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,460.00
Arrow Board	1	Each Day	\$ 66.00
Traffic Lane Shift	1	Each	\$ 1,500.00
Traffic Control Plan (certified)	1	Each	\$ 780.00
Traffic Detour	1	Each	\$ 20,000.00
g) Miscellaneous			
Tree Removal	1	Each	\$ 5,000.00
Permit Fees	1	Each	\$ 2,500.00
Water Charges	1	Each	\$ 3,000.00
Disposal Fees	1	Each	\$ 4,500.00
Concrete Barrier Temporary	1	Linear Foot	\$ 175.00
Formed Concrete	1	Cubic Yard	\$ 1,750.00
Slope Paving	1	Square Yard	\$ 230.00
Clearing and grubbing	1	Each	\$ 7,500.00

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	\$ 125.00
Administrative services	1	Hour	\$ 95.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,200.00
27-inch diameter	1	Each	\$ 3,300.00
30-inch diameter	1	Each	\$ 3,400.00
33-inch diameter	1	Each	\$ 3,550.00
36-inch diameter	1	Each	\$ 3,600.00
42-inch diameter	1	Each	\$ 3,800.00
48-inch diameter	1	Each	\$ 3,900.00
54-inch diameter	1	Each	\$ 4,500.00
60-inch diameter	1	Each	\$ 5,000.00
66-inch diameter	1	Each	\$ 7,500.00
72-inch diameter	1	Each	\$ 8,250.00
78-inch diameter	1	Each	\$ 9,000.00
84-inch diameter	1	Each	\$ 9,500.00
Joint Contraction	1	Linear Foot	\$ 20.00

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 95.00
10-inch diameter	1	Square Foot	\$ 100.00
12-inch diameter	1	Square Foot	\$ 105.00
15-inch diameter	1	Square Foot	\$ 110.00
18-inch diameter	1	Square Foot	\$ 120.00
24-inch diameter	1	Square Foot	\$ 160.00
30-inch diameter	1	Square Foot	\$ 225.00
36-inch diameter	1	Square Foot	\$ 325.00
42-inch diameter	1	Square Foot	\$ 400.00
48-inch diameter	1	Square Foot	\$ 525.00
54-inch diameter	1	Square Foot	\$ 800.00
60-inch diameter	1	Square Foot	\$ 900.00

66-inch diameter	1	Square Foot	\$ 1,000.00
72-inch diameter	1	Square Foot	\$ 1,250.00
78-inch diameter	1	Square Foot	\$ 1,500.00
84-inch diameter	1	Square Foot	\$ 1,750.00

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,500.00
36-inch diameter	1	Each	\$ 6,500.00
48-inch diameter	1	Each	\$ 9,500.00
60-inch diameter	1	Each	\$ 12,500.00
72-inch diameter	1	Each	\$ 15,000.00
84-inch diameter	1	Each	\$ 20,000.00
Adjust Structure	1	Each	\$ 2,500.00
Frame and Cover Replace	1	Each	\$ 950.00
Structure Reconstruct	1	Vertical Foot	\$ 850.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 1,800.00
Cleaning of Structures	1	Hourly	\$ 425.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet	1	Each	\$ 2,500.00
21-inch to 30-inch outlet	1	Each	\$ 5,500.00
33-inch to 48-inch outlet	1	Each	\$ 9,500.00
54-inch to 66-inch outlet	1	Each	\$ 12,500.00

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	\$ 130.00
Operator	1	Hour	\$ 120.00
Laborer	1	Hour	\$ 86.00
Finisher	1	Hour	\$ 95.00
Truck Driver	1	Hour	\$ 85.00
Excavator M318 (equiv.)	1	Hour	\$ 243.00
Excavator 325 (equiv.)	1	Hour	\$ 260.00
Excavator 315 (equiv.)	1	Hour	\$ 142.00
Excavator 308 (equiv.)	1	Hour	\$ 120.00
Excavator 305 (equiv.)	1	Hour	\$ 115.00
Loader 936 (equiv.)	1	Hour	\$ 125.00
Backhoe	1	Hour	\$ 98.00
Skid Steer	1	Hour	\$ 60.00
Dump Truck 5 yard (equiv.)	1	Hour	\$ 72.00
Quad Axle semi-dump	1	Hour	\$ 72.00
Gravel Train	1	Hour	\$ 83.00
Lowboy Trailer	1	Hour	\$ 83.00
Foreman Pick-up	1	Hour	\$ 30.00
Jobsite Pick-up	1	Hour	\$ 20.00

Utility Truck w/tools	1	Hour	\$ 63.00
Flatbed Truck	1	Hour	\$ 43.00
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 230.00
185 CFM compressor	1	Day	\$ 243.00
Light Tower	1	Day	\$ 245.00
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	\$ 67.00
Traffic Barrell	1	Day	\$ 10.00
Section T: Glare Screen Repair			
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

All unit prices are not to exceed pricing. Vendor must allow for lower pricing to be available for similar product and service purchases. **\$ 427,902.65**

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	\$ 95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 8.00
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	\$ 13.00
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	\$ 30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$ 15.00
Timber Matting for Setup	1	Square Yard	\$ 225.00
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	\$ 550.00
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	\$ 5,200.00
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	\$ 7,500.00
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	\$ 135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$ 155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$ 1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$ 4,500.00

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	\$ 800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,000.00

12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$ 1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$ 1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$ 1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$ 1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$ 1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$ 1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$ 1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$ 3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$ 125.00

Section D: Polyethylene (PE) Slip Lining - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
4-inch diameter	1	Linear Foot	\$ 55.00
6-inch diameter	1	Linear Foot	\$ 65.00
8-inch diameter	1	Linear Foot	\$ 75.00
10-inch diameter	1	Linear Foot	\$ 85.00
12-inch diameter	1	Linear Foot	\$ 90.00
18-inch diameter	1	Linear Foot	\$ 100.00
24-inch diameter	1	Linear Foot	\$ 150.00
30-inch diameter	1	Linear Foot	\$ 225.00
36-inch diameter	1	Linear Foot	\$ 310.00
42-inch diameter	1	Linear Foot	\$ 400.00
48-inch diameter	1	Linear Foot	\$ 450.00
54-inch diameter	1	Linear Foot	\$ 500.00
Annular Space - Grouting	1	Cubic Yard	\$ 325.00
Bulkheads	1	Each	\$ 500.00

Note: Pipe Fusing/Joining in Section J

Section E: Pipe Bursting (with High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC)) - OPTIONAL BID SECTION (Prices based on 80' minimum length)			
	Quantity	Unit	Unit Price
6-inch diameter	1	Linear Foot	\$ 125.00
8-inch diameter	1	Linear Foot	\$ 125.00
10-inch diameter	1	Linear Foot	\$ 150.00
12-inch diameter	1	Linear Foot	\$ 175.00
14-inch diameter	1	Linear Foot	\$ 200.00
16-inch diameter	1	Linear Foot	\$ 250.00
18-inch diameter	1	Linear Foot	\$ 275.00

20-inch diameter	1	Linear Foot	\$ 300.00
24-inch diameter	1	Linear Foot	\$ 500.00
30-inch diameter	1	Linear Foot	\$ 750.00
36-inch diameter	1	Linear Foot	\$ 1,000.00
42-inch diameter	1	Linear Foot	\$ 1,500.00
48-inch diameter	1	Linear Foot	\$ 1,750.00
54-inch diameter	1	Linear Foot	\$ 2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$ 25,000.00

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	\$ 750.00
20-inch diameter	1	Each	\$ 1,000.00

Section G: Manhole Rehabilitation - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
All sizes installation of manhole chimney seals	1	Each	\$ 1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$ 1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$ 25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$ 53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$ 38.00

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	\$ 20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$ 25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$ 30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$ 35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$ 40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$ 2.00
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	\$ 425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$ 1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$ 5.00

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 - OPTIONAL BID SECTION	Quantity	Unit	Unit Price
Setup fee per pull segment	1	Segment	\$ 2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$ 15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$ 25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$ 50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$ 75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$ 100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$ 125.00

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	\$ 11.00
Injected Soil Stabilization (slopes/embankments)	1	Pound	\$ 14.50
Temporary Steel Sheeting	1	Square Foot	\$ 40.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$ 10.00
4 to 6 feet deep	1	Cubic Foot	\$ 15.00
6 to 10 feet deep	1	Cubic Foot	\$ 20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$ 1,000.00
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	\$ 0.25
Straw Matting	1	Square Foot	\$ 0.40
4-inch concrete	1	Square Foot	\$ 25.00
6-inch concrete	1	Square Foot	\$ 30.00
8-inch concrete	1	Square Foot	\$ 35.00

10-inch concrete	1	Square Foot	\$ 40.00
12-inch concrete	1	Square Foot	\$ 45.00
2-inch asphalt	1	Square Foot	\$ 25.00
3-inch asphalt	1	Square Foot	\$ 30.00
4-inch asphalt	1	Square Foot	\$ 35.00
6-inch asphalt	1	Square Foot	\$ 40.00
8-inch asphalt	1	Square Foot	\$ 45.00
10-inch asphalt	1	Square Foot	\$ 50.00
12-inch asphalt	1	Square Foot	\$ 55.00
Saw Cut	1	Linear Foot	\$ 7.50
Curb	1	Linear Foot	\$ 75.00
Slope Restoration	1	Square Yard	\$ 15.00
Ditch Grading	1	Linear Foot	\$ 50.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$ 50.00
Rip Rap	1	Ton	\$ 150.00
Sand	1	Ton	\$ 50.00
Gravel	1	Ton	\$ 50.00
21AA	1	Ton	\$ 50.00
Flowable Fill (Voids)	1	Cubic Yard	\$ 300.00
f) Maintenance of Traffic			
Sinage	1	Each Month	\$ 5.00
Flagmen	1	Hour	\$ 240.00
Attenuator Vehicle	1	Each Day	\$ 1,460.00
Arrow Board	1	Each Day	\$ 66.00
Traffic Lane Shift	1	Each	\$ 1,500.00
Traffic Control Plan (certified)	1	Each	\$ 780.00
Traffic Detour	1	Each	\$ 20,000.00
g) Miscellaneous			
Tree Removal	1	Each	\$ 5,000.00
Permit Fees	1	Each	\$ 2,500.00
Water Charges	1	Each	\$ 3,000.00
Disposal Fees	1	Each	\$ 4,500.00
Concrete Barrier Temporary	1	Linear Foot	\$ 175.00
Formed Concrete	1	Cubic Yard	\$ 1,750.00
Slope Paving	1	Square Yard	\$ 230.00
Clearing and grubbing	1	Each	\$ 7,500.00

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	\$ 125.00
Administrative services	1	Hour	\$ 95.00

Section M: Mechanical Joint Seals	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,200.00
27-inch diameter	1	Each	\$ 3,300.00
30-inch diameter	1	Each	\$ 3,400.00
33-inch diameter	1	Each	\$ 3,550.00
36-inch diameter	1	Each	\$ 3,600.00
42-inch diameter	1	Each	\$ 3,800.00
48-inch diameter	1	Each	\$ 3,900.00
54-inch diameter	1	Each	\$ 4,500.00
60-inch diameter	1	Each	\$ 5,000.00
66-inch diameter	1	Each	\$ 7,500.00
72-inch diameter	1	Each	\$ 8,250.00
78-inch diameter	1	Each	\$ 9,000.00
84-inch diameter	1	Each	\$ 9,500.00
Joint Contraction	1	Linear Foot	\$ 20.00

Section N: Segmented Replacement Piping	Quantity	Unit	Unit Price
8-inch diameter	1	Square Foot	\$ 95.00
10-inch diameter	1	Square Foot	\$ 100.00
12-inch diameter	1	Square Foot	\$ 105.00
15-inch diameter	1	Square Foot	\$ 110.00
18-inch diameter	1	Square Foot	\$ 120.00
24-inch diameter	1	Square Foot	\$ 160.00
30-inch diameter	1	Square Foot	\$ 225.00
36-inch diameter	1	Square Foot	\$ 325.00
42-inch diameter	1	Square Foot	\$ 400.00
48-inch diameter	1	Square Foot	\$ 525.00
54-inch diameter	1	Square Foot	\$ 800.00
60-inch diameter	1	Square Foot	\$ 900.00

66-inch diameter	1	Square Foot	\$ 1,000.00
72-inch diameter	1	Square Foot	\$ 1,250.00
78-inch diameter	1	Square Foot	\$ 1,500.00
84-inch diameter	1	Square Foot	\$ 1,750.00

Section O: Drainage Structure Remove and Replace	Quantity	Unit	Unit Price
24-inch diameter	1	Each	\$ 3,500.00
36-inch diameter	1	Each	\$ 6,500.00
48-inch diameter	1	Each	\$ 9,500.00
60-inch diameter	1	Each	\$ 12,500.00
72-inch diameter	1	Each	\$ 15,000.00
84-inch diameter	1	Each	\$ 20,000.00
Adjust Structure	1	Each	\$ 2,500.00
Frame and Cover Replace	1	Each	\$ 950.00
Structure Reconstruct	1	Vertical Foot	\$ 850.00
Drainage Pipe 6-inch	1	Linear Foot	\$ 75.00
French Drains	1	Each	\$ 1,800.00
Cleaning of Structures	1	Hourly	\$ 425.00

Section P: End Sections Remove and Replace	Quantity	Unit	Unit Price
12-inch to 18-inch outlet	1	Each	\$ 2,500.00
21-inch to 30-inch outlet	1	Each	\$ 5,500.00
33-inch to 48-inch outlet	1	Each	\$ 9,500.00
54-inch to 66-inch outlet	1	Each	\$ 12,500.00

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	\$ 130.00
Operator	1	Hour	\$ 120.00
Laborer	1	Hour	\$ 86.00
Finisher	1	Hour	\$ 95.00
Truck Driver	1	Hour	\$ 85.00
Excavator M318 (equiv.)	1	Hour	\$ 243.00
Excavator 325 (equiv.)	1	Hour	\$ 260.00
Excavator 315 (equiv.)	1	Hour	\$ 142.00
Excavator 308 (equiv.)	1	Hour	\$ 120.00
Excavator 305 (equiv.)	1	Hour	\$ 115.00
Loader 936 (equiv.)	1	Hour	\$ 125.00
Backhoe	1	Hour	\$ 98.00
Skid Steer	1	Hour	\$ 60.00
Dump Truck 5 yard (equiv.)	1	Hour	\$ 72.00
Quad Axle semi-dump	1	Hour	\$ 72.00
Gravel Train	1	Hour	\$ 83.00
Lowboy Trailer	1	Hour	\$ 83.00
Foreman Pick-up	1	Hour	\$ 30.00
Jobsite Pick-up	1	Hour	\$ 20.00

Utility Truck w/tools	1	Hour	\$ 63.00
Flatbed Truck	1	Hour	\$ 43.00
Section S: Equipment	Quantity	Unit	Unit Price
Generator	1	Day	\$ 230.00
185 CFM compressor	1	Day	\$ 243.00
Light Tower	1	Day	\$ 245.00
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	\$ 67.00
Traffic Barrell	1	Day	\$ 10.00
Section T: Glare Screen Repair			
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

All unit prices are not to exceed pricing. Vendor must allow for lower pricing to be available for similar product and service purchases. **\$ 427,902.65**



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

425 W. Ottawa, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number 4
to
Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48111
	David Carpenter, Jr.
	734-547-9236
	dcarpenter@corbyenergy.com
	CXXXXX01117

STATE	Program Manager	James Roath	MDOT
		(517) 230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		517-230-1612	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2023	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$14,500,000.00		\$7,000,000.00	\$21,500,000.00	
DESCRIPTION: Effective 11/18/2021 Contract is increased by \$7,000,000.00 for estimated FY22 services. All specifications, term and conditions remain the same. State Administrative Board approval dated 11/16/2021				



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

425 W. Ottawa Street, Lansing, MI 48933

CONTRACT CHANGE NOTICE

Change Notice Number 3
to
Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48111
	David Carpenter, Jr.
	734-547-9236
	dcarpenter@corbyenergy.com
	CXXXXX01117

STATE	Program Manager	James Roath	MDOT
		(517) 230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		(517) 230-1612	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2023	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$7,500,000.00		\$7,000,000.00	\$14,500,000.00	
DESCRIPTION: Effective June 23, 2021, the contract value is increased by \$7,000,000.00 for new culvert rehabilitation and drainage restoration projects for MDOT. All contract terms, conditions remain the same. State Administrative Board approval dated 6/22/2021.				



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

425 W. Ottawa, Lansing, MI 48933

CONTRACT CHANGE NOTICE

Change Notice Number 2
to
Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48111
	David Carpenter, Jr.
	734-547-9236
	dcarpenter@corbyenergy.com
	CXXXXX0117

STATE	Program Manager	James Roath	MDOT
		(517) 230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		(517) 335-5840	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2023	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		
CURRENT VALUE	VALUE OF CHANGE NOTICE		ESTIMATED AGGREGATE CONTRACT VALUE	
\$7,500,000.00	\$0.00		\$7,500,000.00	
DESCRIPTION: Effective October 1, 2020, the following amendments are incorporated into this Contract per attached, Change Notice 2, Exhibit A.				

Michigan Department of Transportation
Contract No. 200000000843
Culvert Rehabilitation & Drainage Restoration
Change Notice 2
Exhibit A

These following repair types and materials are added to the Contract:

1. Flex-A-Mat: This item provides long-term ditch bottom and bank stabilization and will further enhance MDOT's ability to address erosion issues.
 - a. Regions: All
 - b. Unit of Measure: Square Foot
 - c. Not to Exceed Price: \$11.00
2. Seed & Mulch: This item will address areas of soft surface restoration where sod is not necessary
 - a. Regions: All
 - b. Unit of Measure: Square Foot
 - c. Not to Exceed Price: \$0.25
3. Straw Matting: This item will prevent wind and rain erosion during the seed germination the process (for soft surface restoration).
 - a. Regions: All
 - b. Unit of Measure: Square Foot
 - c. Not to Exceed Price: \$0.40
4. Mechanical Joint Seals: This item will provide joint sealing of concrete and other rigid pipes. Mechanical joint seals are cheaper in price than CIPP pipe patches because they can be installed in one-foot increments.
 - a. Regions: All
 - b. Unit of Measure: Each
 - c. Not to Exceed Price:
 - i. 24": \$3,200.00
 - ii. 27": \$3,300.00
 - iii. 30": \$3,400.00
 - iv. 33": \$3,550.00
 - v. 36": \$3,600.00
 - vi. 42": \$3,800.00
 - vii. 48": \$3,900.00
 - viii. 54": \$4,500.00
 - ix. 60": \$5,000.00
 - x. 66": \$7,500.00
 - xi. 72": \$8,250.00
 - xii. 78": \$9,000.00

xiii. 84": \$9,500.00

5. Segmented Replacement Piping: This item will extend or replace existing damaged piping so that rehabilitation can be completed or to repair/replace culvert.

- a. Regions: All
- b. Unit of Measure: Square Foot
- c. Not to Exceed Price:
 - i. 8": \$95.00
 - ii. 10": \$100.00
 - iii. 12": \$105.00
 - iv. 15": \$110.00
 - v. 18": \$120.00
 - vi. 24": \$160.00
 - vii. 30": \$225.00
 - viii. 36": \$325.00
 - ix. 42": \$400.00
 - x. 48": \$525.00
 - xi. 54": \$800.00
 - xii. 60": \$900.00
 - xiii. 66": \$1,000.00
 - xiv. 72": \$1,250.00
 - xv. 78": \$1,500.00
 - xvi. 84": \$1,750.00

6. Drainage Structure Remove and Replace:

- a. Regions: All
- b. Unit of Measure: Each
- c. Not to Exceed Price:
 - i. 24" diameter: \$3,500.00
 - ii. 36" diameter: \$6,500.00
 - iii. 48" diameter: \$9,500.00
 - iv. 60" diameter: \$12,500.00
 - v. 72" diameter: \$15,000.00
 - vi. 84" diameter: \$20,000.00

7. Adjust Structure:

- a. Regions: All
- b. Unit of Measure: Each
- c. Not to Exceed Price: \$2,500.00

8. End Sections Remove and Replace:

- a. Regions: All
- b. Unit of Measure: Each
- c. Not to Exceed Price:
 - i. 12" – 18" outlet: \$2,500.00
 - ii. 21 – 30" outlet: \$5,500.00

- iii. 33" – 48" outlet: \$9,500.00
- iv. 54"-66" outlet: 12,500.00

9. Asphalt Remove / replace:

- a. Regions: All
- b. Unit of Measure: Square Foot
- c. Not to Exceed Price:
 - i. 4": \$35.00
 - ii. 6": \$40.00
 - iii. 8": \$45.00
 - iv. 10": \$50.00
 - v. 12" \$55.00

10. Concrete Remove / replace:

- a. Regions: All
- b. Unit of Measure: Square Foot
- c. Not to Exceed Price:
 - i. 8": \$35.00
 - ii. 10": \$40.00
 - iii. 12" \$45.00

11. End wall Remove / replace:

- a. Regions: All
- b. Unit of Measure: Each
- c. Not to Exceed Price:
 - i. 12-18": \$5,500.00
 - ii. 21-30": \$8,500.00
 - iii. 33-48": \$10,500.00
 - iv. 54-66": \$15,500.00

12. 21AA:

- a. Regions: All
- b. Unit of Measure: TON
- c. Not to Exceed Price: \$50.00

13. Saw Cut:

- a. Regions: All
- b. Unit of Measure: Linear Foot
- c. Not to Exceed Price: \$7.50

14. Flowable Fill (Voids):

- a. Regions: All
- b. Unit of Measure: Cubic Yard
- c. Not to Exceed Price: \$300.00

15. Injected Soil Stabilization (slopes/embankments):
- a. Regions: All
 - b. Unit of Measure: Pound
 - c. Not to Exceed Price: \$14.50



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

425 W. Ottawa, Lansing, MI 48933

P.O. Box 30050, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number 1
to
Contract Number 200000000843

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48111
	David Carpenter, Jr.
	734-547-9237
	dcarpenter@corbyenergy.com
	VXXXXX0117

STATE	Program Manager	James Roath	MDOT
		517-230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		517-335-5840	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
May 11, 2020	May 10, 2023	Three 1-year	May 10, 2023	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$7,500,000.00		\$0.00	\$7,500,000.00	
DESCRIPTION: Effective July 10, 2020, Section K is modified per Attachment I. All other specifications, terms and conditions remain the same.				

Michigan Department of Transportation
Contract Number 200000000843
Culvert Rehabilitation and Drainage Restoration
Change Notice 1
Attachment I, Modification to Schedule B, Pricing

Schedule B - Pricing -
Southwest Region

Section K: Additional Items (As needed per project)			
	Quantity	Unit	Unit Price
h) Pumphouse			
Pumphouse Building & Pumps (materials, plans, electrical, mechanical, sitework, installation, and construction)	1	Each	<u>\$ 500,000.00</u>

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



STATE OF MICHIGAN PROCUREMENT
MICHIGAN DEPARTMENT OF TRANSPORTATION

425 W. Ottawa St., Lansing, MI 48933
P.O. Box 30050, Lansing, MI 48909

NOTICE OF CONTRACT

NOTICE OF CONTRACT NO. **200000000843**

between

THE STATE OF MICHIGAN

and

CONTRACTOR	Corby Energy Services, Inc.
	6001 Schooner Drive
	Belleville, MI 48111
	David Carpenter, Jr.
	734-547-9237
	dcarpenter@corbyenergy.com
	VXXXX0117

STATE	Program Manager	James Roath	MDOT
		517-230-5361	
		RoathJ1@michigan.gov	
	Contract Administrator	Laura Dotson	MDOT
		517-335-5840	
		DotsonL2@michigan.gov	

CONTRACT SUMMARY			
DESCRIPTION: Culvert Rehabilitation and Drainage Restoration			
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW
May 11, 2020	May 10, 2023	Three 1-year	
PAYMENT TERMS		DELIVERY TIMEFRAME	
Net 45			
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING
☐ P-card	☐ Payment Request (PRC)	☐ Other	☐ Yes ☒ No
MINIMUM DELIVERY REQUIREMENTS			
MISCELLANEOUS INFORMATION			
This Contract Agreement is awarded on the basis of the inquiry bearing the solicitation number 200000001156.			
ESTIMATED CONTRACT VALUE AT TIME OF EXECUTION		\$7,500,000.00	



STATE OF MICHIGAN

STANDARD CONTRACT TERMS

This STANDARD CONTRACT ("**Contract**") is agreed to between the State of Michigan (the "**State**") and Corby Energy Services, Inc. (the "**Contractor**"), a Michigan corporation. This Contract is effective on May 11, 2020 ("**Effective Date**"), and unless terminated, expires on May 10, 2023.

This Contract may be renewed for up to three (3) additional one-year periods. 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 described in **Schedule A – Statement of Work** (the "**Contract Activities**"). 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, and meet operational standards, unless otherwise specified in Schedule A.

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) not make any media releases without prior written authorization from the State; (i) 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; (j) comply with all State physical and IT security policies and standards which will be made available upon request; and (k) 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:

Laura Dotson
Michigan Department of Transportation
425 W. Ottawa St.
PO Box 30050
Lansing, MI 48909
DotsonL2@michigan.gov
517-335-5840

If to Contractor:

Dave Carpenter
Corby Energy Services, Inc.
6001 Schooner Drive
Belleville, MI 48112
DCarpenter@Corbyenergy.com
813-410-4360

3. **Contract Administrator.** The Contract Administrator 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:
 Laura Dotson
 Michigan Department of Transportation
 425 W. Ottawa St.
 PO Box 30050
 Lansing, MI 48909
 DotsonL2@michigan.gov
 517-335-5840

Contractor:
 Dave Carpenter
 Corby Energy Services, Inc.
 6001 Schooner Drive
 Belleville, MI 48112
 DCarpenter@Corbyenergy.com
 813-410-4360

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:
 James Roath
 Michigan Department of Transportation
 6333 Lansing Road
 Lansing, MI 48917
 RoathJ1@michigan.gov
 517-230-5361

Contractor:
 Dave Carpenter
 Corby Energy Services, Inc.
 6001 Schooner Drive
 Belleville, MI 48112
 DCarpenter@Corbyenergy.com
 813-410-4360

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 Schedule A) if, in the opinion of the State, it will ensure performance of the Contract.
6. **Insurance Requirements.** Contractor must maintain the insurances identified below and is responsible for all deductibles. All required insurance must: (a) protect the State from claims that may arise out of, are alleged to arise out of, or result from Contractor's or a subcontractor's performance; (b) be primary and non-contributing to any comparable liability insurance (including self-insurance) carried by the State; and (c) be provided by a company with an A.M. Best rating of "A-" or better, and a financial size of VII or better.

Required Limits	Additional Requirements
Commercial General Liability Insurance	
<u>Minimum Limits:</u> \$1,000,000 Each Occurrence Limit \$1,000,000 Personal & Advertising Injury Limit \$2,000,000 General Aggregate Limit \$2,000,000 Products/Completed Operations <u>Deductible Maximum:</u> \$50,000 Each Occurrence	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 2010 07 04 and CG 2037 07 04. Coverage must not have exclusions or limitations related to sexual abuse and molestation liability.
Umbrella or Excess Liability Insurance	
<u>Minimum Limits:</u> \$5,000,000 General Aggregate	Contractor must have their policy follow form.
Automobile Liability Insurance	
<u>Minimum Limits:</u> \$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.

Workers' Compensation Insurance	
<u>Minimum Limits:</u> Coverage according to applicable laws governing work activities.	Waiver of subrogation, except where waiver is prohibited by law.
Employers Liability Insurance	
<u>Minimum Limits:</u> \$500,000 Each Accident \$500,000 Each Employee by Disease \$500,000 Aggregate Disease.	
Professional Liability (Errors and Omissions) Insurance	
<u>Minimum Limits:</u> \$3,000,000 Each Occurrence \$3,000,000 Annual Aggregate <u>Deductible Maximum:</u> \$50,000 Per Loss	
Environmental and Pollution Liability (Errors and Omissions)	
<u>Minimum Limits:</u> \$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.

If any of the required policies provide **claims-made** coverage, the Contractor must: (a) provide coverage with a retroactive date before the effective date of the contract or the beginning of Contract Activities; (b) maintain coverage and provide evidence of coverage for at least three (3) years after completion of the Contract Activities; and (c) if coverage is cancelled or not renewed, and not replaced with another claims-made policy form with a retroactive date prior to the contract effective date, Contractor must purchase extended reporting coverage for a minimum of three (3) years after completion of work.

Contractor must: (a) provide insurance certificates to the Contract Administrator, containing the agreement or purchase order number, at Contract formation and within 20 calendar days of the expiration date of the applicable policies; (b) require that subcontractors maintain the required insurances contained in this Section; (c) notify the Contract Administrator within 5 business days if any insurance is cancelled; and (d) waive all rights against the State for damages covered by insurance. Failure to maintain the required insurance does not limit this waiver.

This Section 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. **Independent Contractor.** Contractor is an independent contractor and assumes all rights, obligations and liabilities set forth in this Contract. 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. 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.

10. **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.
11. **Staffing.** The State's Contract Administrator may require Contractor to remove or reassign personnel by providing a notice to Contractor.
12. **Background Checks.** Upon request, 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.
13. **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.
14. **Change of Control.** Contractor will notify, at least 90 calendar days before the effective date, the State 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.

15. **Ordering.** Contractor is not authorized to begin performance until receipt of authorization as identified in Schedule A.
16. **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 Schedule A. 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 23, 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.

- 17. 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 Schedule A. All containers and packaging become the State's exclusive property upon acceptance.
- 18. 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.
- 19. Warranty Period.** The warranty period, if applicable, for Contract Activities is a fixed period commencing on the date specified in Schedule A. 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.
- 20. Terms of 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 performed as specified in Schedule A. Invoices must include an itemized statement of all charges. The State is exempt from State sales tax for direct purchases and may be exempt from federal excise tax, if Services purchased under this Agreement are for the State's exclusive use. Notwithstanding the foregoing, all prices are inclusive of taxes, and Contractor is responsible for all sales, use and excise taxes, and any other similar taxes, duties and charges of any kind imposed by any federal, state, or local governmental entity on any amounts payable by the State under this Contract.

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

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

- 21. Liquidated Damages.** Liquidated damages, if applicable, will be assessed as described in Schedule A.
- 22. 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 purchase order. The State will not pay for Contract Activities, Contractor's lost profits, or any additional compensation during a stop work period.
- 23. Termination for Cause.** The State may terminate this Contract for cause, in whole or in part, if Contractor, as determined by the State: (a) endangers the value, integrity, or security of any location, data, or personnel; (b) becomes insolvent, petitions for bankruptcy court proceedings, or has an involuntary bankruptcy proceeding filed against it by any creditor; (c) engages in any conduct that may expose the State to liability; (d) breaches any of its material duties or obligations; or (e) fails to cure a breach within the time stated in a notice of breach. Any reference to specific breaches being material breaches within this Contract will not be construed to mean that other breaches are not material.

If the State terminates this Contract under this Section, the State will issue a termination notice specifying whether Contractor must: (a) cease performance immediately, or (b) 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 24, 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. 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.

- 24. Termination for Convenience.** The State may immediately terminate this Contract in whole or in part without penalty and for any 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, or (b) continue to perform the Contract Activities in accordance with Section 25, 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.
- 25. 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) taking 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 Contractor by any entity, agent, vendor, or employee of the State; (d) 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 (e) 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.
- 26. General 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 if the State deems necessary. Contractor will not, without the State's 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. To the extent that any State employee, official, or law may be involved or challenged, the State may, at its own expense, control the defense of that portion of the claim.

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.

- 27. 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.

28. 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.

29. 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 (e) a Proceeding involving any license that Contractor is required to possess in order to perform under this Contract.

30. Reserved.

31. 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 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) personal 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. This Section survives the termination of this Contract.
- 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; and (c) not use, sell, rent, transfer, distribute, 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. This Section survives the termination of this Contract.
- c. Extraction of State Data. Contractor must, within five (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 Schedule A, Contractor is responsible for maintaining a backup of State Data and for an orderly and timely recovery of such data. Unless otherwise described in Schedule A, Contractor must maintain a contemporaneous backup of State Data that can be recovered within two (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 twenty-four (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 five (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 twenty-four (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 ten (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. This section survives termination or expiration of this Contract.

32. 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. The provisions of this Section survive the termination of this Contract.

- 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; and, (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: (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.

33. 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.

34. Reserved.

35. Reserved.

- 36. Records Maintenance, Inspection, Examination, and Audit.** 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 financial and accounting 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 any 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.

- 37. Warranties and Representations.** 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 23, Termination for Cause.
- 38. 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.
- 39. Compliance with Laws.** Contractor must comply with all federal, state and local laws, rules and regulations.
- 40. Prevailing Wage.** Contractor must comply with prevailing wage requirements, to the extent applicable to this Contract.
- 41. Reserved.**
- 42. Nondiscrimination.** Under the Elliott-Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, *et seq.*, the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, *et seq.*, and [Executive Directive 2019-09](#), Contractor and its subcontractors agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex (as defined in Executive Directive 2019-09), height, weight, marital status, partisan considerations, any mental or physical disability, or genetic information that is unrelated to the person's ability to perform the duties of a particular job or position. Breach of this covenant is a material breach of this Contract.
- 43. Unfair Labor Practice.** Under MCL 423.324, the State may void any Contract with a Contractor or subcontractor who appears on the Unfair Labor Practice register compiled under MCL 423.322.
- 44. Governing Law.** This Contract is governed, construed, and enforced in accordance with Michigan law, excluding choice-of-law principles, and all claims relating to or arising out of this Contract are governed by Michigan law, excluding choice-of-law principles. Any dispute arising from this Contract must be resolved in Michigan Court of Claims. Contractor consents to venue in Ingham County, and waives any objections, such as lack of personal jurisdiction or *forum non conveniens*. Contractor must appoint agents in Michigan to receive service of process.
- 45. Non-Exclusivity.** Nothing contained in this Contract is intended nor will be construed as creating any requirements contract with Contractor. This Contract does not restrict the State or its agencies from acquiring similar, equal, or like Contract Activities from other sources.

46. 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.

47. 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.

48. 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 prior written State approval, and then only in accordance with the explicit written instructions of the State.

49. Website Incorporation. The State is not bound by any content on Contractor's website unless expressly incorporated directly into this Contract.

50. 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:

Schedule A	Statement of Work
Schedule B	Pricing
Schedule C	ArcGIS Online (AGOL)

51. Entire Agreement and Order of Precedence. This Contract, which includes Schedule A – Statement of Work, and expressly incorporated 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 Schedule A – Statement of Work; (b) second, Schedule A – 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 WILL CONSTITUTE A PART OR AMENDMENT OF THIS CONTRACT OR IS BINDING ON THE STATE FOR ANY PURPOSE. ALL SUCH OTHER TERMS AND CONDITIONS HAVE NO FORCE AND EFFECT AND ARE DEEMED REJECTED BY THE STATE, EVEN IF ACCESS TO OR USE OF THE CONTRACT ACTIVITIES REQUIRES AFFIRMATIVE ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

52. 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.

53. Waiver. Failure to enforce any provision of this Contract will not constitute a waiver.

54. Survival. The provisions of this Contract that impose continuing obligations, including warranties and representations, termination, transition, insurance coverage, indemnification, and confidentiality, will survive the expiration or termination of this Contract.

55. 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.

STATE OF MICHIGAN

Contract 200000000843

SCHEDULE A STATEMENT OF WORK CONTRACT ACTIVITIES

This schedule identifies the requirements of the Contract.

SCOPE

This Contract is for services to rehabilitate culverts and restore drainage to maintain culvert integrity, fluid flow and traffic. The Contractor shall provide all labor, equipment and materials necessary to rehabilitate the selected culvert(s). The quantities stated in this Contract are estimates to be completed over the life of the Contract.

This Contract is an “**AS NEEDED**” contract to be used by the Michigan Department of Transportation (MDOT).

General process will be as follows:

- A. MDOT develops a list of culverts with proposed fixes and any additional requirements depending on the location and condition.
- B. Contractor reviews the list and provides a price quote per location with the given line items in the Contract. Pricing must not to exceed the prices as listed in Schedule B.
- C. MDOT may accept or reject or negotiate the pricing.
- D. MDOT will create a Delivery Order (DO) for each project.

REQUIREMENTS

1. General Requirements

1.1. Specifications/Requirements

- A. The Contractor shall follow the Special Provisions, manufacturers' recommendations, 2012 Standard Specifications for Construction, or specifications as directed by MDOT.
 - 1) CIPP Special Provision:
[Cured-in-Place Pipe Liner for Culverts and Storm Sewers-12RC401-A725-02-12-04-19.pdf](#)
 - 2) Other Special Provisions:
<https://mdotcf.state.mi.us/public/dessssp/spss/>
 - 3) 2012 Standard Specifications for Construction:
<https://mdotjboss.state.mi.us/SpecProv/specBookHome.htm>
- B. The Contractor shall update inventory attribution using ArcGIS Online as described in Schedule C.
- C. The Contractor shall be a MDOT prequalified Contractor in the following categories:
 - 1) Sewers and Watermains
 - 2) Sewer cleaning
 - 3) Sewer inspection
- D. The Contractor shall provide traffic control unless otherwise directed by MDOT.

1.2. Processes:

- A. **Cured-in-place Pipe (CIPP) Lining**
The Contractor's CIPP process utilizes a polyester felt tube layered on the outside with a polypropylene coating. The tube is custom manufactured by MTC. The tube is manufactured and custom engineered within an ISO 9002 certified facility to detailed site conditions incorporating field data to determine the appropriate minimum wall thickness.

Once delivered to the Contractor's wet-out facility, the tube is vacuum impregnated with a polyester thermosetting resin throughout the entire installation length. Products are tested and proven for reliable CIPP installations. The Contractor's resin systems comply with Contract specifications as well as ASTM D-790, F1216. Upon completion of the resin impregnation, the "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 is facilitated by using a hydrostatic head or column of water created through a "down tube" (per the manufacturer's recommendation). 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 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. 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.

B. CIPP Lateral Renewal Systems

The Contractor utilizes the LMK Tee Liner for the 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.

The one-piece, full circle and homogenous main and lateral CIPP connection liner has a uniform wall thickness of absorbent textile material that 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.

C. CIPP Point Repairs

The Contractor will use Source One Environmentals PipePatch system for CIPP Point Repair process. The PipePatch system can repair pipes ranging from 1-1/2" to 72" in diameter with an 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. PipePatch structurally rehabilitates the sewer and guarantees an additional 50-year service life.

- 1) 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
- 2) 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

D. **Polyethylene (PE) Slip Lining**

The standard gravity slip lining procedure is normally a seven-step process. While the actual number of steps may vary to some degree in the field, the Contractor's procedure remains the same for all practical purposes.

- 1) **Inspect the existing pipe.** The first step for a slip lining project is the inspection of the existing pipe, which determines the condition of the line and the feasibility of the insertion renewal. The number and the locations of offset pipe segments and other potential internal obstructions are identified, typically by using remote-controlled closed-circuit television camera. As the unit is pulled or floated through the original pipe, the pictures can be viewed and recorded with on-site television recording equipment. If the pipe is dirty, it will need to be cleaned to accurately determine if the pipe can be slip lined.
- 2) **Clean and clear the line.** Cleaning is accomplished by various methods such as jetting or buckets. Sometimes the line can be cleared by pulling a test section of polyethylene liner through the existing pipe structure. This step is often undertaken in conjunction with the previous inspection process.
- 3) **Join lengths of polyethylene pipe.** Polyethylene pipe may be joined by butt fusion technology, gasketed bell and spigot joining methods, or by extrusion welding. The specific method to be used will be determined by the type of polyethylene pipe being inserted into the existing pipe structure. Solid wall polyethylene pipe is usually joined using butt fusion techniques. Polyethylene profile walled pipe, on the other hand, can be joined by integral gasketed bell and spigot joining methods or, preferably, by the extrusion welding technique.
- 4) **Access the original line.** Excavation of the access pits is the next step in the insertion renewal procedure. Access pits will vary considerably in size and configuration, depending on a number of project-related factors such as:
 - Depth of the existing pipe
 - Diameters of the liner and the existing pipe
 - Stiffness of liner pipe
 - Prevailing soil conditions
 - Equipment availability
 - Traffic and service requirements
 - Job site geography
- 5) **Installation of the liner.** Insertion of the polyethylene liner may be accomplished by several techniques. Pre-fused or welded lengths of solid wall polyethylene pipe may be "pulled" into place.

Gasket-jointed profile pipe, on the other hand, must be installed by the push method to maintain a water-tight seal.

Pre-fused or welded lengths of polyethylene liner may be pulled into the existing pipe using a cable and winch arrangement. However, this method may not be entirely satisfactory when the load requires an unusually large downstream winch, such as when attempting to install a large-diameter heavy-walled polyethylene pipe and/or a long segment length. When the pull technique is not practical, the push technique may be a viable solution.

The push technique uses a choker strap, placed around the liner at a workable distance from the access point. A track-hoe, backhoe, or other piece of mechanical equipment pulls the choker to push the liner through the existing pipe. The process may be assisted by having a front-end loader or bulldozer simultaneously push on the trailing end of the liner segment. The installation of gasketed profile PE pipe, if appropriate for the application, requires the use of the push technique in order to keep the joints from separating, as well as to position the liner. This process inserts the liner without the necessity for having a high capacity winch and cable system.

The pushing and pulling techniques can sometimes be combined to provide the most efficient installation method. Typically, this arrangement can be used when attempting the placement of unusually heavy walled or long lengths of polyethylene liner.

- 6) **Make service and lateral connections.** After the recommended 24-hour relaxation period following the insertion of the polyethylene liner, each individual service connection and lateral can be added to the new system. One common method of making these connections involves the use of a wrap-around service saddle. The saddle is placed over a hole that has been cut through the liner and the entire saddle and gasket assembly is then fastened into place with stainless steel bands. Additional joint integrity can be obtained by extrusion welding of the lap joint created between the saddle base and the liner. The service lateral can then be connected into the saddle, using a readily available flexible coupling. Once the lateral has been connected, following standard direct burial procedures can stabilize the entire area. For pressure applications, lateral connections can be made using sidewall fusion of branch saddles onto the liner. As an alternate, a molded or fabricated tee may be fused or flanged into the liner at the point where the lateral connection is required. Mechanical fittings are also a viable option; see Chapter 9 of the Plastic Pipe Institute (PPI) Handbook of Polyethylene Pipe.

E. Pipe Bursting with High-Density Polyethylene (HDPE)

Pipe bursting systems are generally classified into two categories: (1) pneumatic pipe bursting systems and (2) static pipe bursting systems. The Contractor will choose between these two methods based upon preference, availability, application, existing pipe material, pipe material being installed, soil conditions, noise, and risk mitigation.

1) Pneumatic Pipe Bursting Systems

Pneumatic pipe bursting systems utilize a combination of a pneumatic hammer powered by compressed air, a winch, and an expander at the front or rear of the pneumatic hammer. The hammer, as it is called, is driven through the existing pipe by a relatively large piston fired by compressed air. The compressed air is fed to the back of the hammer by air hose running from an appropriately sized air compressor. The cone shaped expander is attached to the new pipe being pulled into place and set against the pneumatic hammer, either at the front or rear of the hammer. The percussive action of the hammer drives the expander through the existing pipe. The expander maintains contact with the existing pipe and soil and is the mechanism for creating the temporary cavity for pulling in the new pipe. The winch cable is attached to the pneumatic hammer to provide additional pulling force and to keep the expander in contact with the existing pipe and maintaining the proper direction. The tension supplied by the winch and cable is necessary to keep the hammer properly aligned in the pipe so that the system does not leave the existing pipe corridor.

The hammer, expander, and new pipe are inserted into the existing pipe at one end, while the winch is typically located at the opposite end of the segment to be replaced. The winch cable is snaked through the existing pipe and attached to the hammer. While, occasionally, circumstances allow the hammer, expander, and new pipe to enter the existing pipe without excavation, typically, an excavation is required at this end to accommodate the process. This excavation is typically called the insertion pit and is rarely avoided. Once the hammer, expander, and new pipe have reached the end of the segment to be replaced successfully, the hammer and expander must be removed. Depending upon the type of pneumatic equipment used, an additional excavation might be required to remove the equipment at this end. This excavation is typically called the retrieval pit.

One reason why pneumatic pipe bursting systems are so popular, is an adaptation to the original equipment that allows the hammer and expander to be removed without excavating a retrieval pit. This adaptation is called a Reversible Pneumatic Pipe Bursting System. This adaptation is configured in such a way that the hammer fits inside the pipe being installed with an expander seated at the front of the hammer. The winch is placed over a manhole entry point with the cable snaked down the manhole and through the pipe with a boom section and pully system. The expander is pulled into the manhole where it can be accessed and removed. The point where the cable is attached to the hammer can also be accessed and disconnected. The expander is brought out through the manhole and the hammer is pulled back through the newly installed pipe and removed at the insertion pit. Consequently, the entire process can be completed with only the one excavation, at the insertion pit. The potential economies realized by avoiding this second excavation are as follows.

- Saved time in performing the exaction and hauling off material from the retrieval pit
- Saved costs of backfilling the retrieval pit – compaction and/or backfill stone
- Saved costs of restoring the retrieval pit – landscaping, grassing, asphalt, concrete

While pneumatic pipe bursting systems are used more often than static pipe bursting systems, it is important to note that pneumatic pipe bursting systems are only suitable for installing HDPE pipe. If any other new pipe material is desired, static pipe bursting systems will be necessary. Fortunately, HDPE is suitable and often preferable for most applications and is the most installed pipe material for the pipe bursting method.

2) **Static Pipe Bursting**

Static pipe bursting systems are classified by the lack of a pneumatic percussive force being used to drive the expander through the existing pipe. Rather, the cone shaped expander is pulled through the existing pipe and soil by cable or rods powered by hydraulically supplied brute force located just outside of the existing pipe. The cone shaped expander transfers this force to the existing pipe and surrounding soil. The existing pipe and soil are displaced to create the temporary cavity through which the new pipe, attached to the expander, is pulled through.

The hydraulically powered static machine is typically set at one end of the segment where rods or cable are snaked through the existing pipe and attached to the expander which is attached to the pipe at the opposite end of the segment to be replaced. While, occasionally, circumstances allow the static machine, expander, and new pipe to enter the existing pipe without excavation, typically, an excavation is required at each end to accommodate the process. The excavation where the machine is placed, the rods/cable enter the existing pipe and are pushed through the pipe, is typically called the machine pit. The excavation where the expander and the pipe are attached to the rods or cable and inserted into the existing pipe is called the insertion pit. Once the machine rods or cables are attached to the expander, the expander and pipe are pulled through the existing pipe by brute force.

The cable static burst systems are typically used on small diameter pipes (6" or less) with short pull lengths. These machines are often called cable-tuggers. Some cable systems can be used though manholes in much the same way a reversible hammer can be used to eliminate excavation of a machine pit. For larger diameters and longer pull lengths more power is generally desired and therefore both a machine pit and an insertion pit excavation are required to accommodate the larger equipment. For this reason, static pipe bursting systems are preferred less often when HDPE pipe is acceptable.

However, static pipe bursting systems are required when any material other than HDPE, is desired or required. The pneumatic systems can only be used with HDPE pipe, because of the percussive force involved. The percussive force of a pneumatic system is simply incompatible with the other new pipe materials available. Static pipe bursting systems are also advantageous when cutter attachments are required or desired for repair clamps and non-fracturable pipe. Additionally, static pipe bursting systems are desirable in high water table scenarios and to mitigate risk.

3) **Pipe Bursting Applications & Size Ranges**

The pipe bursting method can be used to replace most any pipe, in most any condition, used for most any application. The method can also be used for potable water applications, in addition to non-potable applications. The versatility of the process and the pipe materials installed is quite extensive. Pipe bursting can be used for pressure applications and gravity applications, ranging in size from 4" to 54".

- Gravity Pipes
 - o Sanitary Sewer Pipes, Storm Sewer Pipes, & Process Pipes
- 4) **Existing Pipe Materials That Are Candidates for Pipe Bursting**
 The very first feasibility test to be considered when evaluating the pipe burst process for use in a particular application is existing pipe material. It is important to verify that the pipe bursting process has the capability to either fracture the existing pipe material easily or cut/split the existing material with an attachment. Proper consideration of the existing pipe material would guide the installer on tool selection and potentially render the method infeasible, if there is no proper way to cut or split the existing material. For this reason, the existing pipe material is categorized into two types for consideration.
- **Fracturable Pipe Material**
 - o Asbestos Cement Pipe
 - o Cast Iron Pipe
 - o Concrete Pipe
 - o PVC Pipe (Thin Wall)
 - o Truss Pipe
 - o Vitrified Clay Pipe (VCP)
 - **Non-fracturable Pipe Material**
 - o Corrugated Metal Pipe
 - o Cured-In-Place Pipe (In addition to the existing host material type)
 - o Pitch/Orangeburg Pipe
 - o Polyethylene/HDPE
 - o PVC (Thick Wall)
- 5) **Pre-Installation Procedures**
 Prior to pipe bursting any pipe segment, utility locates should be made and pre-CCTV inspections should be completed, whenever possible. These two measures will be essential in determining likely excavations and risks.
- 6) **Utility Locates**
 For most segments to be pipe burst, utility locates simply guide strategy on where to best perform pit excavations and where potholing will be necessary to avoid damaging existing utilities. In most instances, utility locations are a routine part of the process and have little impact on completing the work.
- As previously discussed in the Soil Displacement Section, paralleling utilities, in close proximity to the segment, could be damaged by soil displacement. Therefore, utility locates are essential for locating potential utility conflicts that can easily be addressed or potentially render the pipe bursting method infeasible.
- 7) **Pre-CCTV**
 As previously discussed in the Pre-existing Point Repair section, it is not always possible to pre-CCTV all pipe segments prior to pipe bursting, especially in pressure applications. However, when possible, it is best to pre-CCTV inspect the pipe to identify potential issues that could be mitigated if known. Pre-CCTV inspection is used to identify the following potential issues.
- Pre-existing sags or humps
 - Verify/Identify the existing pipe material
 - Identify changes in pipe material
 - o Point Repairs
 - o Changes from one pipe material to another

- Identify MJ fittings & bends, Horizontal or vertical changes, repair clamps, or other possible risk restrictions
- Identify cross bored utilities
 - o Gas lines
 - o Water lines
- Identify locations of service connections and manholes

8) **Setting-up the job**

Once it has been determined that the project is a candidate for pipe bursting (pipe diameter selected, risks mitigated, and the laydown area is secured), the following will take place:

- Pipe delivery and fusing/joining
- Entry/Exit pits excavated and shored
- Install the cable, rods, or chain for the bursting technique
- Connect to the new product pipe
- Pull the product through the host pipe
- Re-connect existing leads
- Cut of entry/exit end pipe
- Male connections to structures (unless the existing pipe is open ended)
- Backfill/clean-up according to the client's requirements

9) **Post Installation Quality Controls**

After the pipe bursting process is complete there are several post installation procedures that can be performed to assure quality. These procedures are industry standards that vary from application to application. These procedures would most likely be performed regardless of the method chosen to rehabilitate or replace an existing pipe.

10) **Gravity Pipes**

Gravity pipes, including sanitary sewer and storm sewer, are typically post-televised with CCTV equipment after the pipe has been installed, services reconnected, and manholes installed or rehabilitated. The post-CCTV inspection will verify the quality of the pipe and fitting installation along with grade issues. Additionally, depending upon the region, a low-pressure air test is often required to ensure an air-tight system.

F. **Manhole Connections**

Physical reconnect: These connections will be done when a new pipe is inserted into an existing storm structure. The new pipe will be placed through the existing opening or an existing opening will be made larger using a mechanical device such as a saw. The new pipe will be placed through the opening and adjusted to the correct grade. After this, the annulus will be sealed using a combination of ready-mix cement, cement bricks, and water stops if needed.

G. **Manhole Rehabilitation**

The Contractor utilizes two types of manhole rehabilitation products.

- 1) Alternative Lining Technologies (ALT) CIPM Lining systems are a Cured in place Liner that is made 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.
- 2) OBIC Polyurea 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.

H. **Cleaning and Closed-Circuit Television (CCTV) Pipe Inspection**

The Contractor 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 2/3 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 Contractor CCTV operators are NASSCO PACP certified and have a minimum of 4 years of experience in sewer and pipe cleaning and inspection.

I. **Bypass for Culverts and Associated Items**

J. **Pipe Fusing/Joining**

HDPE pipe is generally 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.

K. **Additional Items, Traffic Control**

The Contractor shall be responsible for traffic control unless directed by MDOT. Traffic shall be maintained in accordance with the 2012 or most current versions of the Standard Specifications for Construction, the Michigan Manual of Uniform Traffic Control Devices (MMUTCD), Work Zones Maintaining Traffic Typicals, and the Maintenance Work Zone Traffic Control Guidelines. Traffic control plans are detailed drawings that should 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 MDOT. A 24-hour emergency number for traffic control issues must be provided.

All operations shall be conducted in a manner that will not create a hazard and will maintain safety for the crews and traffic. The Contractor shall 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 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 Engineer as defined in the current 2012 Standard Specifications for Construction.

MMUTCD and Work Zones Maintaining Traffic Typicals can be found at the following link:
<https://mdotjboss.state.mi.us/TSSD/tssdHome.htm>

Maintenance Work Zone Traffic Control Guidelines can be found at the following link:
https://www.michigan.gov/documents/zonecontrol_112912_7.pdf

1.3. Warranties

A one-year warranty applies to all work performed during the Contract period. The warranty relates to workmanship and materials. Warranty period begins after acceptance of the work.

The State reserves the right to require additional warranties other than those identified by the Contractor.

1.4. Recall Requirements and Procedures

The Contractor will follow manufacturers' recommended recall procedures. All recalled materials will be removed from inventory at the Contractor's facilities.

1.5. Quality Assurance Program

As needed, MDOT shall be present for the installations to verify installation methods. MDOT will visually inspect the final product for acceptance and payment.

The Contractor's quality assurance program is as follows:

Once the CIPP liner is installed and completed, a remotely controlled CCTV unit re-enters the pipe and surveys the entire length in order to verify a satisfactory installation. According to NASSCO, minor blemishes or wrinkles may occur in varied pipe types for a number of reasons. Minor wrinkles and defects do not impact the structural integrity of the pipe. Should any unacceptable defects be found, several options can take place (1) MDOT may request the specific section be ground down or cut out and a CIPP patch installed over said area (2) MDOT may discount the pricing of the installed liner and accept it as is along with said defect. It is widely known that wrinkles are a common occurrence in large diameter piping and that wrinkles do not affect the structural integrity of the rehabbed pipe section.

2. Services Levels

2.1. Time Frames

Time frames are as mutually agreed by the Contractor and MDOT.

2.2. Delivery

Delivery and installation timing will be determined and mutually agreed upon by the Contractor and MDOT.

3. Acceptance

3.1. Acceptance, Inspection and Testing

Acceptance occurs when MDOT inspects and approves the completed work.

3.2. Final Acceptance

Final acceptance occurs when MDOT makes payment for the work.

4. Staffing

4.1. Contractor Representative

The Contractor must appoint one individual, specifically assigned to State of Michigan accounts, that will respond to State inquiries regarding the Contract Activities, answering questions related to projects, etc. (the "Contractor Representative").

The appointed Contractor Representative: David L. Carpenter, Jr., PMP
813-410-4360
Dcarpenter@Corbyenergy.com

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

4.2. Technical Support, Repairs and Maintenance

The Contractor's telephone numbers for the State to make contact with the Contractor for technical support, repairs and maintenance:

Contractor's representative number:	989-213-4408
24-hour safety team number:	877-647-1105
24-hour emergency traffic number:	989-213-4408

The Contractor must be available for calls and service during the hours of 8:00 am to 5:00 pm Eastern Time.

4.3. 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, and possible night and weekend hours depending on the requirements of the project.

4.4. Key Personnel

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

Contractor's Key Personnel:	Troy Freed
	989-213-4408
	Tfreed@Corbyenergy.com

Jacob Martin
734-309-2665
jmartin@Corbyenergy.com

The State has the right to recommend and approve in writing the initial assignment, as well as any proposed reassignment or replacement, of any Key Personnel. Before assigning an individual to any Key Personnel position, Contractor will notify the State of the proposed assignment, introduce the individual to the State's Project Manager, and provide the State with a resume and any other information about the individual reasonably requested by the State. The State reserves the right to interview the individual before granting written approval. In the event the State finds a proposed individual unacceptable, the State will provide a written explanation including reasonable detail outlining the reasons for the rejection. The State may require a 30-calendar day training period for replacement personnel.

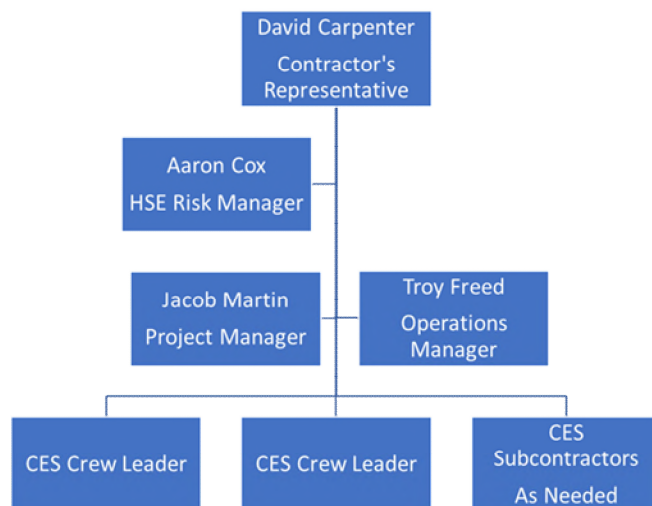
Contractor will not remove any Key Personnel from their assigned roles on this Contract without the prior written consent of the State. The Contractor's removal of Key Personnel without the prior written consent of the State is an unauthorized removal ("Unauthorized Removal"). An Unauthorized Removal does not include replacing Key Personnel for reasons beyond the reasonable control of Contractor, including illness, disability, leave of absence, personal emergency circumstances, resignation, or for cause termination of the Key Personnel's employment. Any Unauthorized Removal may be considered by the State to be a material breach of this Contract, in respect of which the State may elect to terminate this Contract for cause under Termination for Cause in the Standard Terms. It is further acknowledged that an Unauthorized Removal will interfere with the timely and proper completion of this Contract, to the loss and damage of the State, and that it would be impracticable and extremely difficult to fix the actual damage sustained by the State as a result of any Unauthorized Removal. Therefore, Contractor and the State agree that in the case of any Unauthorized Removal in respect of which the State does not elect to exercise its rights under Termination for Cause, Contractor will issue to the State the corresponding credits set forth below (each, an "Unauthorized Removal Credit"):

(i) For the Unauthorized Removal of any Key Personnel designated in the applicable Statement of Work, the credit amount will be \$25,000.00 per individual if Contractor identifies a replacement approved by the State and assigns the replacement to shadow the Key Personnel who is leaving for a period of at least 30 calendar days before the Key Personnel's removal.

(ii) If Contractor fails to assign a replacement to shadow the removed Key Personnel for at least 30 calendar days, in addition to the \$25,000.00 credit specified above, Contractor will credit the State \$833.33 per calendar day for each day of the 30 calendar-day shadow period that the replacement Key Personnel does not shadow the removed Key Personnel, up to \$25,000.00 maximum per individual. The total Unauthorized Removal Credits that may be assessed per Unauthorized Removal and failure to provide 30 calendar days of shadowing will not exceed \$50,000.00 per individual.

Contractor acknowledges and agrees that each of the Unauthorized Removal Credits assessed above: (i) is a reasonable estimate of and compensation for the anticipated or actual harm to the State that may arise from the Unauthorized Removal, which would be impossible or very difficult to accurately estimate; and (ii) may, at the State's option, be credited or set off against any fees or other charges payable to Contractor under this Contract.

4.5. Organizational Chart



4.6. Disclosure of Subcontractors

The following 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.

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

- INNOVALINER INC.
8551 Monclova Rd.
Monclova, OH. 43542
curtisjn@roadrunner.com
419-779-6149
- Insituform Technologies, USA LLC
1088 Victory Dr.
Howell, MI 48843
Ken Quillen kquillen@aegion.com
517-546-6046
- Waste Recovery Systems
4750 Clyde Park Ave. SW
Wyoming, MI 49509
rick@industrialwasterecovery.com

Subcontractors for CCTV:

- Pipetek
12119 Levan Rd,
Livonia, MI 48150
Kyle Dehne
kdehne@pipetekservices.com
- Waste Recovery Systems
4750 Clyde Park Ave. SW
Wyoming, MI 49509
rick@industrialwasterecovery.com

Subcontractors for Manhole Rehabilitation:

- Advanced Rehabilitation Technology
1116 County Road 17
Bryan, OH 43506
Kevin Appel
kappel@artcoatingtech.com
- Plummers Environmental Services Inc
10075 Sedroc Industrial Dr
Byron Center, MI 49315
David VanDyken
davidv@plummersenv.com

Subcontractors for Miscellaneous Work (bypass, Traffic Control, Engineering Services):

- MTS
Midwest Trenchless Services
3129 Benston Rd
Whitehall, MI 49461
Joel Kruszynski
joel@notrench.net
- Spicer Engineering
230 S. Washington
Saginaw, MI 48607
Darrick Huff, PE
darrickh@spicergroup.com
- Metro Consulting Associates
45345 Five Mile Rd
Plymouth, MI 48170
Damon Garrett
dgarrett@metroca.net

- Xylem Dewatering Solutions
11850 Sears Street Suite A
Livonia, MI 48150
Bob Williams
Bob.williams@xyleminc.com
- Give Em A Brake Safety
2610 Sanford Ave SW
Grandville, MI 49418

4.7. Security

The Contractor shall follow state security recommendations to ensure the security of State facilities. Contractor personnel or subcontractor shall enter a state facility only when authorized by MDOT. Contractor personnel shall be issued ID badges and PPE, such as hard hats and safety vests, shall be logoed to be clearly identifiable.

The Contractor utilizes Hireright to perform security background checks. Background checks include but are not limited to: Motor Vehicle Record Check, Misdemeanor and Felony checks both state and federal level, SSN trace, Sex Offender Registry Checks.

The State may require the Contractor's personnel to wear State issued identification badges.

5. Project Management

5.1. Project Plan

For each project, the Contractor will be required to propose a project plan. The project plan should identify items such as the required contact personnel; the date the project plan must be submitted to MDOT; 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.

The Contractor will carry out the project plan under the direction and control of MDOT.

5.2. Meetings

The Contractor must attend meetings as required.

5.3. 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 shall update inventory attribution using ArcGIS Online as described in Schedule C.

6. Pricing

6.1. Price Term

Pricing is firm for the entire length of the Contract.

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.

The prices in this contract are "not to exceed" unit prices and unit prices for specific work may be a lower unit price.

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. Order Authorizing Document

The appropriate authorizing document for the Contract will be Delivery Orders (DO) through SIGMA. Contractor is not to initiate work without receipt of a DO from MDOT.

8. Invoice and Payment

8.1. Invoice Requirements

All invoices submitted to the State must include: (a) date; (b) purchase order; (c) quantity; (d) description of the Contract Activities; (e) unit price; (f) shipping cost (if any); and (g) total price. Overtime, holiday pay, and travel expenses will not be paid.

8.2. Payment Methods

The State will make payment for Contract Activities as stated in the Standard Contract Terms, Section 20, Terms of Payment. The State will only disburse payments under this Contract through Electronic Funds Transfer (EFT).

8.3. Payment Terms

Payment terms are Net 45 days.

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.

10.0. Performance Bonds

The Contractor shall provide performance bonds for each individual project that exceeds \$50,000. Creation and acceptance of performance bonds will be subject to review and approval from the MDOT Construction Section.

STATE OF MICHIGAN

Contract 200000000843

SCHEDULE B PRICING

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

Bay Region	Quantity	Unit	Unit Price
Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)			
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$8.00
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	\$13.00
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	\$30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$15.00

Bay Region	Quantity	Unit	Unit Price
Timber Matting for Setup	1	Square Yard	\$225.00
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	\$550.00
Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)			
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	\$5,200.00
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	\$7,500.00
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	\$135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$4,500.00
Section C: CIPP Point Repairs (Prices based on 4' minimum length)			
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$1,000.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$85.00

Bay Region	Quantity	Unit	Unit Price
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$125.00
Section D: Polyethylene (PE) Slip Lining (Prices based on 80' minimum length)			
4-inch diameter	1	Linear Foot	\$55.00
6-inch diameter	1	Linear Foot	\$65.00
8-inch diameter	1	Linear Foot	\$75.00
10-inch diameter	1	Linear Foot	\$85.00
12-inch diameter	1	Linear Foot	\$90.00
18-inch diameter	1	Linear Foot	\$100.00
24-inch diameter	1	Linear Foot	\$150.00
30-inch diameter	1	Linear Foot	\$225.00
36-inch diameter	1	Linear Foot	\$310.00
42-inch diameter	1	Linear Foot	\$400.00
48-inch diameter	1	Linear Foot	\$450.00
54-inch diameter	1	Linear Foot	\$500.00
Annular Space - Grouting	1	Cubic Yard	\$325.00
Bulkheads	1	Each	\$500.00
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)			
6-inch diameter	1	Linear Foot	\$125.00
8-inch diameter	1	Linear Foot	\$125.00
10-inch diameter	1	Linear Foot	\$150.00
12-inch diameter	1	Linear Foot	\$175.00
14-inch diameter	1	Linear Foot	\$200.00
16-inch diameter	1	Linear Foot	\$250.00
18-inch diameter	1	Linear Foot	\$275.00
20-inch diameter	1	Linear Foot	\$300.00
24-inch diameter	1	Linear Foot	\$500.00
30-inch diameter	1	Linear Foot	\$750.00
36-inch diameter	1	Linear Foot	\$1,000.00
42-inch diameter	1	Linear Foot	\$1,500.00
48-inch diameter	1	Linear Foot	\$1,750.00
54-inch diameter	1	Linear Foot	\$2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$ 25,000.00
Note: Pipe Fusing/Joining in Section J			

Bay Region	Quantity	Unit	Unit Price
Section F: Manhole Connections			
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	\$750.00
20-inch diameter	1	Each	\$1,000.00
Section G: Manhole Rehabilitation			
All sizes installation of manhole chimney seals	1	Each	\$1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$38.00
Section H: Cleaning and Closed-Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)			
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
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	\$425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$5.00
Section I: Bypass for Culverts and Associated Items			
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

Bay Region	Quantity	Unit	Unit Price
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			
Setup fee per pull segment	1	Segment	\$2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$125.00
Section K: Additional Items (As needed per project)			
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 20,000.00
Erosion Control	1	Linear Foot	\$20.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$10.00
4 to 6 feet deep	1	Cubic Foot	\$15.00
6 to 10 feet deep	1	Cubic Foot	\$20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$1,000.00
6 to 10 feet deep	1	Trench/week	\$1,500.00
d) Surface Restoration			
Sod	1	Square Foot	\$15.00
4-inch concrete	1	Square Foot	\$25.00
6-inch concrete	1	Square Foot	\$30.00
2-inch asphalt	1	Square Foot	\$25.00

Bay Region	Quantity	Unit	Unit Price
3-inch asphalt	1	Square Foot	\$30.00
Curb	1	Linear Foot	\$75.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$50.00
Rip Rap	1	Ton	\$150.00
Sand	1	Ton	\$50.00
Gravel	1	Ton	\$50.00
f) Maintenance of Traffic			
Signage	1	Each Month	\$5.00
Flagmen	1	Hour	\$240.00
Attenuator Vehicle	1	Each Day	\$1,940.00
Arrow Board	1	Each Day	\$66.00
Traffic Lane Shift	1	Each	\$1,990.00
Traffic Control Plan (certified)	1	Each	\$780.00
g) Miscellaneous			
Tree Removal	1	Each	\$5,000.00
Permit Fees	1	Each	\$2,500.00
Water Charges	1	Each	\$3,000.00
Disposal Fees	1	Each	\$4,500.00
Note: Additional Items may apply to each section of the Contract			
Section L: Professional Services, Civil Engineering, and Land Surveying			
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	\$125.00
Administrative services	1	Hour	\$95.00

Grand Region	Quantity	Unit	Unit Price
Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)			
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$8.00
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	\$13.00
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	\$30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$15.00
Timber Matting for Setup	1	Square Yard	\$225.00
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	\$550.00
Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)			
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	\$5,200.00

Grand Region	Quantity	Unit	Unit Price
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	\$7,500.00
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	\$135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$4,500.00
Section C: CIPP Point Repairs (Prices based on 4' minimum length)			
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$1,000.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$125.00
Section D: Polyethylene (PE) Slip Lining (Prices based on 80' minimum length)			
4-inch diameter	1	Linear Foot	\$55.00
6-inch diameter	1	Linear Foot	\$65.00

Grand Region	Quantity	Unit	Unit Price
8-inch diameter	1	Linear Foot	\$75.00
10-inch diameter	1	Linear Foot	\$85.00
12-inch diameter	1	Linear Foot	\$90.00
18-inch diameter	1	Linear Foot	\$100.00
24-inch diameter	1	Linear Foot	\$150.00
30-inch diameter	1	Linear Foot	\$225.00
36-inch diameter	1	Linear Foot	\$310.00
42-inch diameter	1	Linear Foot	\$400.00
48-inch diameter	1	Linear Foot	\$450.00
54-inch diameter	1	Linear Foot	\$500.00
Annular Space - Grouting	1	Cubic Yard	\$325.00
Bulkheads	1	Each	\$500.00
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)			
6-inch diameter	1	Linear Foot	\$125.00
8-inch diameter	1	Linear Foot	\$125.00
10-inch diameter	1	Linear Foot	\$150.00
12-inch diameter	1	Linear Foot	\$175.00
14-inch diameter	1	Linear Foot	\$200.00
16-inch diameter	1	Linear Foot	\$250.00
18-inch diameter	1	Linear Foot	\$275.00
20-inch diameter	1	Linear Foot	\$300.00
24-inch diameter	1	Linear Foot	\$500.00
30-inch diameter	1	Linear Foot	\$750.00
36-inch diameter	1	Linear Foot	\$1,000.00
42-inch diameter	1	Linear Foot	\$1,500.00
48-inch diameter	1	Linear Foot	\$1,750.00
54-inch diameter	1	Linear Foot	\$2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$25,000.00
Note: Pipe Fusing/Joining in Section J			
Section F: Manhole Connections			
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	\$750.00
20-inch diameter	1	Each	\$1,000.00

Grand Region	Quantity	Unit	Unit Price
Section G: Manhole Rehabilitation			
All sizes installation of manhole chimney seals	1	Each	\$1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$38.00
Section H: Cleaning and Closed-Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)			
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
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	\$425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$5.00
Section I: Bypass for Culverts and Associated Items			
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

Grand Region	Quantity	Unit	Unit Price
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			
Setup fee per pull segment	1	Segment	\$2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$125.00
Section K: Additional Items (As needed per project)			
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 20,000.00
Erosion Control	1	Linear Foot	\$20.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$10.00
4 to 6 feet deep	1	Cubic Foot	\$15.00
6 to 10 feet deep	1	Cubic Foot	\$20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$1,000.00
6 to 10 feet deep	1	Trench/week	\$1,500.00
d) Surface Restoration			
Sod	1	Square Foot	\$15.00
4-inch concrete	1	Square Foot	\$25.00
6-inch concrete	1	Square Foot	\$30.00
2-inch asphalt	1	Square Foot	\$25.00
3-inch asphalt	1	Square Foot	\$30.00
Curb	1	Linear Foot	\$75.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$50.00
Rip Rap	1	Ton	\$150.00
Sand	1	Ton	\$50.00
Gravel	1	Ton	\$50.00
f) Maintenance of Traffic			
Signage	1	Each Month	\$5.00

Grand Region	Quantity	Unit	Unit Price
Flagmen	1	Hour	\$240.00
Attenuator Vehicle	1	Each Day	\$1,460.00
Arrow Board	1	Each Day	\$66.00
Traffic Lane Shift	1	Each	\$1,500.00
Traffic Control Plan (certified)	1	Each	\$780.00
g) Miscellaneous			
Tree Removal	1	Each	\$5,000.00
Permit Fees	1	Each	\$2,500.00
Water Charges	1	Each	\$3,000.00
Disposal Fees	1	Each	\$4,500.00
Note: Additional Items may apply to each section of the Contract			
Section L: Professional Services, Civil Engineering, and Land Surveying			
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	\$125.00
Administrative services	1	Hour	\$95.00

Metro Region	Quantity	Unit	Unit Price
Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)			
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$95.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$100.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$105.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$110.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$120.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$135.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$160.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$205.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$225.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$300.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$325.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$400.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$525.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$800.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$3.00
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	\$8.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$10.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$11.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$12.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$13.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$14.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$18.00
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	\$50.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$13.00
Timber Matting for Setup	1	Square Yard	\$15.00
Internal Reconnection of service connection by robotic cutter	1	Each	\$225.00
Sealing of service connection with chemical grouting after internal reconnection (minimum quantity of 15 to be completed per mobilization)	1	Each	\$350.00
Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)			
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	\$5,200.00

Metro Region	Quantity	Unit	Unit Price
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	\$7,500.00
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	\$135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$4,500.00
Section C: CIPP Point Repairs (Prices based on 4' minimum length)			
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$1,000.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$125.00
Section D: Polyethylene (PE) Slip Lining (Prices based on 80' minimum length)			
4-inch diameter	1	Linear Foot	\$55.00
6-inch diameter	1	Linear Foot	\$65.00

Metro Region	Quantity	Unit	Unit Price
8-inch diameter	1	Linear Foot	\$75.00
10-inch diameter	1	Linear Foot	\$85.00
12-inch diameter	1	Linear Foot	\$90.00
18-inch diameter	1	Linear Foot	\$100.00
24-inch diameter	1	Linear Foot	\$150.00
30-inch diameter	1	Linear Foot	\$225.00
36-inch diameter	1	Linear Foot	\$310.00
42-inch diameter	1	Linear Foot	\$400.00
48-inch diameter	1	Linear Foot	\$450.00
54-inch diameter	1	Linear Foot	\$500.00
Annular Space - Grouting	1	Cubic Yard	\$325.00
Bulkheads	1	Each	\$500.00
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)			
6-inch diameter	1	Linear Foot	\$125.00
8-inch diameter	1	Linear Foot	\$125.00
10-inch diameter	1	Linear Foot	\$150.00
12-inch diameter	1	Linear Foot	\$175.00
14-inch diameter	1	Linear Foot	\$200.00
16-inch diameter	1	Linear Foot	\$250.00
18-inch diameter	1	Linear Foot	\$275.00
20-inch diameter	1	Linear Foot	\$300.00
24-inch diameter	1	Linear Foot	\$500.00
30-inch diameter	1	Linear Foot	\$750.00
36-inch diameter	1	Linear Foot	\$1,000.00
42-inch diameter	1	Linear Foot	\$1,500.00
48-inch diameter	1	Linear Foot	\$1,750.00
54-inch diameter	1	Linear Foot	\$2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$25,000.00
Note: Pipe Fusing/Joining in Section J			
Section F: Manhole Connections			
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	\$750.00
20-inch diameter	1	Each	\$1,000.00

Metro Region	Quantity	Unit	Unit Price
Section G: Manhole Rehabilitation			
All sizes installation of manhole chimney seals	1	Each	\$1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$38.00
Section H: Cleaning and Closed-Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)			
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
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	\$425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$5.00
Section I: Bypass for Culverts and Associated Items			
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

Metro Region	Quantity	Unit	Unit Price
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			
Setup fee per pull segment	1	Segment	\$2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$125.00
Section K: Additional Items (As needed per project)			
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 20,000.00
Erosion Control	1	Linear Foot	\$20.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$10.00
4 to 6 feet deep	1	Cubic Foot	\$15.00
6 to 10 feet deep	1	Cubic Foot	\$20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$1,000.00
6 to 10 feet deep	1	Trench/week	\$1,500.00
d) Surface Restoration			
Sod	1	Square Foot	\$15.00
4-inch concrete	1	Square Foot	\$25.00
6-inch concrete	1	Square Foot	\$30.00
2-inch asphalt	1	Square Foot	\$25.00
3-inch asphalt	1	Square Foot	\$30.00
Curb	1	Linear Foot	\$75.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$50.00
Rip Rap	1	Ton	\$150.00
Sand	1	Ton	\$50.00
Gravel	1	Ton	\$50.00
f) Maintenance of Traffic			
Signage	1	Each Month	\$5.00

Metro Region	Quantity	Unit	Unit Price
Flagmen	1	Hour	\$240.00
Attenuator Vehicle	1	Each Day	\$1,460.00
Arrow Board	1	Each Day	\$66.00
Traffic Lane Shift	1	Each	\$1,500.00
Traffic Control Plan (certified)	1	Each	\$780.00
g) Miscellaneous			
Tree Removal	1	Each	\$5,000.00
Permit Fees	1	Each	\$2,500.00
Water Charges	1	Each	\$3,000.00
Disposal Fees	1	Each	\$4,500.00
Note: Additional Items may apply to each section of the Contract			
Section L: Professional Services, Civil Engineering, and Land Surveying			
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	\$125.00
Administrative services	1	Hour	\$95.00

Southwest Region	Quantity	Unit	Unit Price
Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)			
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$8.00
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	\$13.00
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	\$30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$15.00
Timber Matting for Setup	1	Square Yard	\$225.00
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	\$550.00
Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)			
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	\$5,200.00

Southwest Region	Quantity	Unit	Unit Price
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	\$7,500.00
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	\$135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$4,500.00
Section C: CIPP Point Repairs (Prices based on 4' minimum length)			
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$1,000.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$125.00
Section D: Polyethylene (PE) Slip Lining (Prices based on 80' minimum length)			
4-inch diameter	1	Linear Foot	\$55.00
6-inch diameter	1	Linear Foot	\$65.00

Southwest Region	Quantity	Unit	Unit Price
8-inch diameter	1	Linear Foot	\$75.00
10-inch diameter	1	Linear Foot	\$85.00
12-inch diameter	1	Linear Foot	\$90.00
18-inch diameter	1	Linear Foot	\$100.00
24-inch diameter	1	Linear Foot	\$150.00
30-inch diameter	1	Linear Foot	\$225.00
36-inch diameter	1	Linear Foot	\$310.00
42-inch diameter	1	Linear Foot	\$400.00
48-inch diameter	1	Linear Foot	\$450.00
54-inch diameter	1	Linear Foot	\$500.00
Annular Space - Grouting	1	Cubic Yard	\$325.00
Bulkheads	1	Each	\$500.00
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)			
6-inch diameter	1	Linear Foot	\$125.00
8-inch diameter	1	Linear Foot	\$125.00
10-inch diameter	1	Linear Foot	\$150.00
12-inch diameter	1	Linear Foot	\$175.00
14-inch diameter	1	Linear Foot	\$200.00
16-inch diameter	1	Linear Foot	\$250.00
18-inch diameter	1	Linear Foot	\$275.00
20-inch diameter	1	Linear Foot	\$300.00
24-inch diameter	1	Linear Foot	\$500.00
30-inch diameter	1	Linear Foot	\$750.00
36-inch diameter	1	Linear Foot	\$1,000.00
42-inch diameter	1	Linear Foot	\$1,500.00
48-inch diameter	1	Linear Foot	\$1,750.00
54-inch diameter	1	Linear Foot	\$2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$25,000.00
Note: Pipe Fusing/Joining in Section J			
Section F: Manhole Connections			
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	\$750.00
20-inch diameter	1	Each	\$1,000.00

Southwest Region	Quantity	Unit	Unit Price
Section G: Manhole Rehabilitation			
All sizes installation of manhole chimney seals	1	Each	\$1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$38.00
Section H: Cleaning and Closed-Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)			
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
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	\$425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$5.00
Section I: Bypass for Culverts and Associated Items			
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

Southwest Region	Quantity	Unit	Unit Price
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			
Setup fee per pull segment	1	Segment	\$2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$125.00
Section K: Additional Items (As needed per project)			
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 20,000.00
Erosion Control	1	Linear Foot	\$20.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$10.00
4 to 6 feet deep	1	Cubic Foot	\$15.00
6 to 10 feet deep	1	Cubic Foot	\$20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$1,000.00
6 to 10 feet deep	1	Trench/week	\$1,500.00
d) Surface Restoration			
Sod	1	Square Foot	\$15.00
4-inch concrete	1	Square Foot	\$25.00
6-inch concrete	1	Square Foot	\$30.00
2-inch asphalt	1	Square Foot	\$25.00
3-inch asphalt	1	Square Foot	\$30.00
Curb	1	Linear Foot	\$75.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$50.00
Rip Rap	1	Ton	\$150.00
Sand	1	Ton	\$50.00
Gravel	1	Ton	\$50.00
f) Maintenance of Traffic			
Signage	1	Each Month	\$5.00

Southwest Region	Quantity	Unit	Unit Price
Flagmen	1	Hour	\$240.00
Attenuator Vehicle	1	Each Day	\$1,700.00
Arrow Board	1	Each Day	\$66.00
Traffic Lane Shift	1	Each	\$1,750.00
Traffic Control Plan (certified)	1	Each	\$780.00
g) Miscellaneous			
Tree Removal	1	Each	\$5,000.00
Permit Fees	1	Each	\$2,500.00
Water Charges	1	Each	\$3,000.00
Disposal Fees	1	Each	\$4,500.00
Note: Additional Items may apply to each section of the Contract			
Section L: Professional Services, Civil Engineering, and Land Surveying			
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	\$125.00
Administrative services	1	Hour	\$95.00

University Region	Quantity	Unit	Unit Price
Section A: Cured-in-place Pipe (CIPP) Lining (Prices based on 80' minimum length)			
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$95.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$95.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$100.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$105.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$110.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$120.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$135.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$160.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$205.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$225.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$300.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$325.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$400.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$525.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$800.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$3.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$5.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$8.00
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	\$13.00
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	\$30.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$50.00
6-inch thru 10-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$13.00
12-inch thru 18-inch diameter Backyard Easement Setup Per Install Length	1	Linear Foot	\$15.00
Timber Matting for Setup	1	Square Yard	\$225.00
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	\$550.00
Section B: CIPP Lateral Renewal Systems (Prices based on 10' minimum length)			
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	\$5,200.00

University Region	Quantity	Unit	Unit Price
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	\$7,500.00
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	\$135.00
4-inch to 6-inch Installation and cure of structural lateral liner from surface clean out to main	1	Linear Foot	\$155.00
4-inch to 6-inch Set-up charge per line section for installations of <20 total laterals per project	1	Each	\$1,500.00
4-inch to 6-inch installation of a surface cleanout or access pit	1	Each	\$4,500.00
Section C: CIPP Point Repairs (Prices based on 4' minimum length)			
6-inch diameter x 4.5-mm thickness	1	Linear Foot	\$800.00
8-inch diameter x 6.0-mm thickness	1	Linear Foot	\$975.00
10-inch diameter x 6.0-mm thickness	1	Linear Foot	\$1,000.00
12-inch diameter x 6.0-mm thickness	1	Linear Foot	\$1,050.00
15-inch diameter x 7.5-mm thickness	1	Linear Foot	\$1,125.00
18-inch diameter x 9.0-mm thickness	1	Linear Foot	\$1,238.00
21-inch diameter x 9.0-mm thickness	1	Linear Foot	\$1,375.00
24-inch diameter x 10.5-mm thickness	1	Linear Foot	\$1,400.00
27-inch diameter x 10.5-mm thickness	1	Linear Foot	\$1,438.00
30-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,538.00
33-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,738.00
36-inch diameter x 12.0-mm thickness	1	Linear Foot	\$1,775.00
42-inch diameter x 13.5-mm thickness	1	Linear Foot	\$1,906.00
48-inch diameter x 15.0-mm thickness	1	Linear Foot	\$1,993.00
54-inch diameter x 18.0-mm thickness	1	Linear Foot	\$3,250.00
6-inch thru 8-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$45.00
10-inch thru 12-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$55.00
15-inch thru 18-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$65.00
21-inch thru 24-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$75.00
27-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$80.00
30-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$85.00
33-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$90.00
36-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$100.00
42-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$105.00
48-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$110.00
54-inch diameter additional 1.5 mm thickness	1	Linear Foot	\$125.00
Section D: Polyethylene (PE) Slip Lining (Prices based on 80' minimum length)			
4-inch diameter	1	Linear Foot	\$55.00
6-inch diameter	1	Linear Foot	\$65.00

University Region	Quantity	Unit	Unit Price
8-inch diameter	1	Linear Foot	\$75.00
10-inch diameter	1	Linear Foot	\$85.00
12-inch diameter	1	Linear Foot	\$90.00
18-inch diameter	1	Linear Foot	\$100.00
24-inch diameter	1	Linear Foot	\$150.00
30-inch diameter	1	Linear Foot	\$225.00
36-inch diameter	1	Linear Foot	\$310.00
42-inch diameter	1	Linear Foot	\$400.00
48-inch diameter	1	Linear Foot	\$450.00
54-inch diameter	1	Linear Foot	\$500.00
Annular Space - Grouting	1	Cubic Yard	\$325.00
Bulkheads	1	Each	\$500.00
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)			
6-inch diameter	1	Linear Foot	\$125.00
8-inch diameter	1	Linear Foot	\$125.00
10-inch diameter	1	Linear Foot	\$150.00
12-inch diameter	1	Linear Foot	\$175.00
14-inch diameter	1	Linear Foot	\$200.00
16-inch diameter	1	Linear Foot	\$250.00
18-inch diameter	1	Linear Foot	\$275.00
20-inch diameter	1	Linear Foot	\$300.00
24-inch diameter	1	Linear Foot	\$500.00
30-inch diameter	1	Linear Foot	\$750.00
36-inch diameter	1	Linear Foot	\$1,000.00
42-inch diameter	1	Linear Foot	\$1,500.00
48-inch diameter	1	Linear Foot	\$1,750.00
54-inch diameter	1	Linear Foot	\$2,000.00
Setup fee per Pipe Bursting segment	1	Each	\$25,000.00
Note: Pipe Fusing/Joining in Section J			
Section F: Manhole Connections			
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	\$750.00
20-inch diameter	1	Each	\$1,000.00

University Region	Quantity	Unit	Unit Price
Section G: Manhole Rehabilitation			
All sizes installation of manhole chimney seals	1	Each	\$1,250.00
Grouting of heavy infiltration to facilitate manhole rehab	1	Each	\$1,750.00
Manhole rehabilitation - cementitious	1	Square Foot	\$25.00
Manhole rehabilitation - epoxy	1	Square Foot	\$53.00
Manhole rehabilitation - polyurethane	1	Square Foot	\$38.00
Section H: Cleaning and Closed-Circuit Television (CCTV) Pipe Inspection (Prices based on 80' minimum length)			
6-inch thru 12-inch diameter Clean & CCTV	1	Linear Foot	\$20.00
15-inch thru 21-inch diameter Clean & CCTV	1	Linear Foot	\$25.00
24-inch thru 33-inch diameter Clean & CCTV	1	Linear Foot	\$30.00
36-inch thru 42-inch diameter Clean & CCTV	1	Linear Foot	\$35.00
48-inch thru 54-inch diameter Clean & CCTV	1	Linear Foot	\$40.00
6-inch thru 15-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
18-inch thru 27-inch diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
30-inch or Larger diameter Post & CCTV Inspection after Rehabilitation	1	Linear Foot	\$2.00
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	\$425.00
Other Remote Obstruction Removal (max 10 linear foot)	1	Each	\$1,500.00
Above Ground Physical Inspection	1	Linear Foot	\$5.00
Section I: Bypass for Culverts and Associated Items			
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

University Region	Quantity	Unit	Unit Price
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			
Setup fee per pull segment	1	Segment	\$2,000.00
6-inch thru 12-inch diameter	1	Linear Foot	\$15.00
13-inch thru 18-inch diameter	1	Linear Foot	\$25.00
19-inch thru 24-inch diameter	1	Linear Foot	\$50.00
25-inch thru 42-inch diameter	1	Linear Foot	\$75.00
43-inch thru 48-inch diameter	1	Linear Foot	\$100.00
49-inch thru 54-inch diameter	1	Linear Foot	\$125.00
Section K: Additional Items (As needed per project)			
a) Mobilization/Erosion Control			
Mobilization	1	Each	\$ 20,000.00
Erosion Control	1	Linear Foot	\$20.00
b) Excavation/Backfill			
0 to 4 feet deep	1	Cubic Foot	\$10.00
4 to 6 feet deep	1	Cubic Foot	\$15.00
6 to 10 feet deep	1	Cubic Foot	\$20.00
c) Trench Shoring			
4 to 6 feet deep	1	Trench/week	\$1,000.00
6 to 10 feet deep	1	Trench/week	\$1,500.00
d) Surface Restoration			
Sod	1	Square Foot	\$15.00
4-inch concrete	1	Square Foot	\$25.00
6-inch concrete	1	Square Foot	\$30.00
2-inch asphalt	1	Square Foot	\$25.00
3-inch asphalt	1	Square Foot	\$30.00
Curb	1	Linear Foot	\$75.00
e) Materials			
Excavation and Culvert Bedding	1	Ton	\$50.00
Rip Rap	1	Ton	\$150.00
Sand	1	Ton	\$50.00
Gravel	1	Ton	\$50.00
f) Maintenance of Traffic			
Signage	1	Each Month	\$5.00

University Region	Quantity	Unit	Unit Price
Flagmen	1	Hour	\$240.00
Attenuator Vehicle	1	Each Day	\$1,700.00
Arrow Board	1	Each Day	\$66.00
Traffic Lane Shift	1	Each	\$1,750.00
Traffic Control Plan (certified)	1	Each	\$780.00
g) Miscellaneous			
Tree Removal	1	Each	\$5,000.00
Permit Fees	1	Each	\$2,500.00
Water Charges	1	Each	\$3,000.00
Disposal Fees	1	Each	\$4,500.00
Note: Additional Items may apply to each section of the Contract			
Section L: Professional Services, Civil Engineering, and Land Surveying			
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	\$125.00
Administrative services	1	Hour	\$95.00

STATE OF MICHIGAN

SCHEDULE C ArcGIS Online (AGOL)

Background

GIS is a visualization of data in a map. ArcGIS Online (owned by the company ESRI) can be accessed on desktop computers via Google Chrome or Firefox, or on connected devices like smart phones and tablet through free applications.

ArcGIS Online is commonly abbreviated as AGOL or AGO.

AGOL automatically includes coordinate information when data is entered in the GIS map. AGOL maps that can be accessed by smart devices are called Web Maps.

MDOT will assume all responsibility for developing, deploying, and maintaining AGOL with applicable app.

Use of AGOL may be required for providing location, tracking contract activity, assigning Work Orders, and updating attribute information.

Installation, Set-Up

Installation and Set-up is zero dollars.

The Contractor may incur applicable data charges for usage.

AGOL is available on stated devices, through the Internet via Google Chrome or Firefox. (The Contractor should not use Internet Explorer or Edge to access AGOL.)

AGOL can be used on existing computer or smart device currently assigned to Contractor's staff/personnel.

If the Contractor already has an AGOL account, these same credentials may be associated with the Web Map and other developed applications for this contract.

MDOT will provide log on credentials to the Contractor for access to AGOL data and map, for interfacing with the Collector Maps and for downloading data to aid in easier payment processing.

Training

MDOT will provide training to the Contractor for AGOL for both Desktop/Laptop and smart devices.

The Contractor may request individualized training from MDOT on downloading and uploading local caches of the Collector Map while connected to Wi-Fi.

Device Requirements

The Contractor is required to have mobile devices with cellular connections, which must have both location services and photos enabled.

Devices must be able to access the latest version of Esri products.

MDOT will not provide computers or smart devices for the Contractor's use