

# Precision Contracting Services, Inc

15834 Guild Court  
Jupiter, FL 33478

Phone: 561-743-9737  
Fax: 561-743-0775

## Precision Fiber Optic Systems

<b>To:</b>	City Of Clearwater	<b>Contact:</b>	Alyce Bengé
<b>Address:</b>	Clearwater, FL	<b>Phone:</b>	727-562-4633
		<b>Fax:</b>	
<b>Project Name:</b>	19.02.05 Clearwater FO Cable, Boring & Maintenance	<b>Bid Number:</b>	#17-19
<b>Project Location:</b>	Various Segments, Clearwater, FL	<b>Bid Date:</b>	2/5/2019
<b>Addendum #:</b>	1		

Line #	Item Description	Estimated Quantity	Unit
--------	------------------	--------------------	------

### SEGMENT 1

1	Mobilization - Travel	1.00	LS
1	Strand Mapping, Geo-Location, As-Built Documentation With FiberTrak GIS Database - Compatible With Existing City Of Clearwater FO Network Documentation-All Segments	1.00	LS
2	Project Management	1.00	LS
3	Proof Existing Conduit	1,100.00	LF
5	Trench 3" Conduit (F&I)	352.00	LF
10	Directional Bore 3" Conduit (F&I)	1,448.00	LF
13	Pull Box 24"x36"x36" (F&I) W/ Concrete Apron As Applicable	6.00	EACH
16	Delineator (F&I)	6.00	EACH
17	Building Entry (F&I)	2.00	EACH
18	EMT Conduit ISP (F&I)	100.00	LF
19	Riser GRS 2" (F&I)	10.00	LF
20	Tracer Wire (F&I)	2,070.00	LF
21	FO Cable UG 12F (F&I)	2,070.00	LF
25	FO Splice (Install Only) - Splicing @ Closure Sites	12.00	EACH
26	FO Splice Closure (F&I) (Closures, Trays, Sealant)	1.00	EACH
28	FO Termination (Install Only) - Splice & Testing @ Termination Site	12.00	EACH
29	FO Field Term Patch Panel 12F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	1.00	EACH
<b>Total Price for above SEGMENT 1 Items:</b>		<b>\$56,818.00</b>	

### SEGMENT 2

1	Mobilization - Travel	1.00	LS
1	Strand Mapping, Geo-Location, As-Built Documentation With FiberTrak GIS Database - Compatible With Existing City Of Clearwater FO Network Documentation-All Segments	1.00	LS
2	Project Management	1.00	LS
3	Proof Existing Conduit	31,600.00	LF
10	Directional Bore 4" Conduit (F&I)	7,004.00	LF
13	Pull Box 24"x36"x36" (F&I) W/ Concrete Apron As Applicable	12.00	EACH
15	InnerDuct 3 X 1" (F&I)	7,004.00	LF
16	Delineator (F&I)	12.00	EACH
17	Building Entry (F&I)	1.00	EACH
18	EMT Conduit ISP (F&I)	100.00	LF
19	Riser GRS 2" (F&I)	10.00	LF
20	Tracer Wire (F&I)	38,335.00	LF
24	FO Cable UG 96F (F&I)	38,335.00	LF
25	FO Splice (Install Only) - Splicing @ Closure Sites	96.00	EACH
26	FO Splice Closure (F&I) (Closures, Trays, Sealant)	1.00	EACH
28	FO Termination (Install Only) - Splice & Testing @ Termination Site	192.00	EACH
30	FO Field Term Patch Panel 24F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	1.00	EACH
32	FO Field Term Patch Panel 96F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	2.00	EACH
<b>Total Price for above SEGMENT 2 Items:</b>		<b>\$384,115.90</b>	

### SEGMENT 3A

1	Mobilization - Travel	1.00	LS
1.01	Strand Mapping, Geo-Location, As-Built Documentation With FiberTrak GIS Database - Compatible With Existing City Of Clearwater FO Network Documentation-All Segments	1.00	LS

Line #	Item Description	Estimated Quantity	Unit
2	Project Management	1.00	LS
7	Directional Bore 1 1/2" Conduit (F&I)	2,195.00	LF
11	Pull Box 13"x24"x12" (F&I) W/ Concrete Apron As Applicable	12.00	EACH
17	Building Entry (F&I)	1.00	EACH
18	EMT Conduit ISP (F&I)	100.00	LF
19	Riser GRS 2" (F&I)	100.00	LF
20	Tracer Wire (F&I)	2,195.00	LF
21	FO Cable UG 12F (F&I)	3,338.00	LF
28	FO Termination (Install Only) - Splice & Testing @ Termination Site	204.00	EACH
29	FO Field Term Patch Panel 12F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	17.00	EACH
33	Nema Cabinet (F&I)	8.00	EACH
34	Concrete Work (F&I)	225.00	LF
98	Outfield Pole New (F&I) (No Electric)	4.00	EACH

**Total Price for above SEGMENT 3A Items: \$153,549.00**

#### SEGMENT 3B

1	Mobilization - Travel	1.00	LS
1.01	Strand Mapping, Geo-Location, As-Built Documentation With FiberTrak GIS Database - Compatible With Existing City Of Clearwater FO Network Documentation-All Segments	1.00	LS
2	Project Management	1.00	LS
7	Directional Bore 1 1/2" Conduit (F&I)	1,712.00	LF
11	Pull Box 13"x24"x12" (F&I) W/ Concrete Apron As Applicable	13.00	EACH
19	Riser GRS 2" (F&I)	45.00	LF
20	Tracer Wire (F&I)	1,712.00	LF
21	FO Cable UG 12F (F&I)	2,380.00	LF
28	FO Termination (Install Only) - Splice & Testing @ Termination Site	180.00	EACH
29	FO Field Term Patch Panel 12F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	15.00	EACH
33	Nema Cabinet F&I	3.00	EACH
34	Concrete Work (F&I)	90.00	LF

**Total Price for above SEGMENT 3B Items: \$74,013.00**

#### SEGMENT 4

1	Mobilization - Travel	1.00	LS
1.01	Strand Mapping, Geo-Location, As-Built Documentation With FiberTrak GIS Database - Compatible With Existing City Of Clearwater FO Network Documentation-All Segments	1.00	LS
2	Project Management	1.00	LS
7	Directional Bore 1 1/5" Conduit (F&I)	350.00	LF
10	Directional Bore 4" Conduit (F&I)	1,437.00	LF
13	Pull Box 24"x36"x36" (F&I) W/Concrete Apron As Applicable	12.00	EACH
15	InnerDuct 3 X 1" (F&I)	1,437.00	LF
16	Delineator (F&I)	8.00	EACH
17	Building Entry (F&I)	1.00	EACH
18	EMT Conduit ISP (F&I)	100.00	LF
19	Riser GRS 2" (F&I)	10.00	LF
20	Tracer Wire (F&I)	7,145.00	LF
21	FO Cable UG 12F (F&I)	350.00	LF
23	FO Cable UG 48F (F&I)	6,795.00	LF
25	FO Splice (Install Only) - Splicing @ Closure Sites	12.00	EACH
26	FO Splice Closure (F&I) (Closures, Trays, Sealant)	1.00	EACH
28	FO Termination (Install Only) - Splice & Testing @ Termination Site	60.00	EACH
29	FO Field Term Patch Panel 12F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	1.00	EACH
31	FO Field Term Patch Panel 48F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	1.00	EACH

**Total Price for above SEGMENT 4 Items: \$99,069.70**

#### SEGMENT 5

1	Mobilization - Travel	1.00	LS
1.01	Strand Mapping, Geo-Location, As-Built Documentation With FiberTrak GIS Database - Compatible With Existing City Of Clearwater FO Network Documentation-All Segments	1.00	LS
2	Project Management	1.00	LS
9	Directional Bore 3" Conduit (F&I)	4,935.00	LF

Line #	Item Description	Estimated Quantity	Unit
13	Pull Box 24"x36"x36" (F&I) W/ Concrete Apron As Applicable	10.00	EACH
16	Delineator (F&I)	10.00	EACH
17	Building Entry (F&I)	2.00	EACH
18	EMT Conduit ISP (F&I)	200.00	LF
19	Riser GRS 2" (F&I)	20.00	LF
20	Tracer Wire (F&I)	5,675.00	LF
21	FO Cable UG 12F (F&I)	5,675.00	LF
28	FO Termination (Install Only) - Splice & Testing @ Termination Site	24.00	EACH
29	FO Field Term Patch Panel 12F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	2.00	EACH

**Total Price for above SEGMENT 5 Items: \$131,667.50**

#### SEGMENT 6

1	Mobilization - Travel	1.00	LS
1.01	Strand Mapping, Geo-Location, As-Built Documentation With FiberTrak GIS Database - Compatible With Existing City Of Clearwater FO Network Documentation-All Segments	1.00	LS
2	Project Management	1.00	LS
3	Proof Existing Conduit	101,521.00	LF
10	Directional Bore 4" Conduit (F&I)	10,000.00	LF
13	Pull Box 24"x36"x36" (F&I) W/ Concrete Apron As Applicable	20.00	EACH
15	InnerDuct 3 X 1" (F&I)	10,000.00	LF
16	Delineator (F&I)	20.00	EACH
17	Building Entry (F&I)	2.00	EACH
18	EMT Conduit ISP (F&I)	200.00	LF
19	Riser GRS 2" (F&I)	20.00	LF
20	Tracer Wire (F&I)	111,521.00	LF
23	FO Cable UG 48F (F&I)	111,521.00	LF
25	FO Splice (Install Only) - Splicing @ Closure Sites	192.00	EACH
26	FO Splice Closure (F&I) (Closures, Trays, Sealant)	4.00	EACH
28	FO Termination (Install Only) - Splice & Testing @ Termination Site	96.00	EACH
31	Fiber Optic Termination Patch Panel 48F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	2.00	EACH

**Total Price for above SEGMENT 6 Items: \$740,045.35**

#### SEGMENT 7

1	Mobilization - Travel	1.00	LS
1.01	Strand Mapping, Geo-Location, As-Built Documentation With FiberTrak GIS Database - Compatible With Existing City Of Clearwater FO Network Documentation-All Segments	1.00	LS
2	Project Management	1.00	LS
8	Directional Bore 2" Conduit (F&I)	4,414.00	LF
13	Pull Box 24"x36"x36" (F&I) W/ Concrete Apron As Applicable	15.00	EACH
16	Delineator (F&I)	15.00	EACH
17	Building Entry (F&I)	4.00	EACH
18	EMT Conduit ISP (F&I)	400.00	LF
19	Riser GRS 2" (F&I)	40.00	LF
20	Tracer Wire (F&I)	5,076.00	LF
21	Fiber Optic Cable UG 12F (F&I)	5,076.00	LF
25	FO Splice (Install Only) - Splicing @ Closure Sites	48.00	EACH
26	FO Splice Closure (F&I) (Closures, Trays, Sealant)	4.00	EACH
28	FO Termination (Install Only) - Splice & Testing @ Termination Site	48.00	EACH
29	Fiber Optic Field Term Patch Panel 12F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	4.00	EACH

**Total Price for above SEGMENT 7 Items: \$128,497.00**

#### SEGMENT 8

1	Mobilization - Travel	1.00	LS
1.01	Strand Mapping, Geo-Location, As-Built Documentation With FiberTrak GIS Database - Compatible With Existing City Of Clearwater FO Network Documentation-All Segments	1.00	LS
2	Project Management	1.00	LS
10	Directional Bore 4" Conduit (F&I)	4,200.00	LF
13	Pull Box 24"x36"x36" (F&I) W/ Concrete Apron As Applicable	9.00	EACH
15	InnerDuct 3 X 1" (F&I)	4,200.00	LF
16	Delineator (F&I)	8.00	EACH



Line #	Item Description	Estimated Quantity	Unit
17	Building Entry (F&I)	2.00	EACH
18	EMT Conduit ISP (F&I)	200.00	LF
19	Riser GRS 2" (F&I)	20.00	LF
20	Tracer Wire (F&I)	5,000.00	LF
21	FO Cable UG 12F (F&I)	5,000.00	LF
28	FO Termination (Install Only) - Splice & Testing @ Termination Site	24.00	EACH
28.5	FO Field Term Patch Panel 06F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	2.00	EACH
29	FO Field Term Patch Panel 12F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	2.00	EACH
30	FO Field Term Patch Panel 24F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	1.00	EACH

**Total Price for above SEGMENT 8 Items: \$149,560.00**

#### SEGMENT 9

1	Mobilization - Travel	1.00	LS
1.01	Strand Mapping, Geo-Location, As-Built Documentation With FiberTrak GIS Database - Compatible With Existing City Of Clearwater FO Network Documentation-All Segments	1.00	LS
2	Project Management	1.00	LS
9	Directional Bore 3" Conduit (F&I)	1,600.00	LF
13	Pull Box 24"x36"x36" (F&I) W/ Concrete Apron As Applicable	5.00	EACH
16	Delineator (F&I)	5.00	EACH
17	Building Entry (F&I)	1.00	EACH
18	EMT Conduit ISP (F&I)	100.00	LF
19	Riser GRS 2" (F&I)	10.00	LF
20	Tracer Wire (F&I)	3,697.00	LF
21	FO Cable UG 12F (F&I)	3,697.00	LF
25	FO Splice (Install Only) - Splicing @ Closure Sites	12.00	EACH
26	FO Splice Closure (F&I) (Closures, Trays, Sealant)	1.00	EACH
28	FO Termination (Install Only) - Splice & Testing @ Termination Site	12.00	EACH
29	FO Field Term Patch Panel 12F (F&I) - Includes Coupler Panels, Splice Trays, Pigtails	1.00	EACH

**Total Price for above SEGMENT 9 Items: \$56,867.50**

#### OTDR

OTDR	PCS Techs Will Have Available For PCS Use On Project - Complete EXFO OTDR AXS 110 (or Equal) With Power Meter, Scope, Visual Fault Locator For Complete Diagnostic Capability	1.00	EACH
------	---	------	------

**Total Price for above OTDR Items: \$0.00**

**Total Bid Price: \$1,974,202.95**

#### Notes:

##### • General - Scope & Location

**Location:** City of Clearwater, FL. Fiber Optic Communications Network Installations At Various Locations (10 Segments Total)

##### Scope of Work

**PCS INCLUDES** the Furnish, Install, & Documentation of the designated fiber optic communication links as per City of Clearwater specifications and as outlined in the project RFP.

##### • General - No Bond (Sales Tax Included)

**PCS EXCLUDES** the cost for a performance bond. Sales Tax or Use Tax has been included for all materials.

##### • General – As-Built Documentation per City of Clearwater Specifications

**PCS INCLUDES** Fiber Optic Splicing Diagrams detailing all cable splices, terminations, equipment port assignments, and optical circuits within the communication network. We WILL document Communications including low voltage communication circuits within or between ITS or TS cabinets. As-Built submittals will include an electronic file with an inventory of all traffic control signals, devices & support structures. The inventory includes required horizontal position geographic coordinate data collected using Differential Global Positioning System (DGPS) equipment. The inventory includes required manufacturer, model, and serial number for each device or completed assembly. The inventory includes required GPS coordinate data for pull boxes as well as conduit & cable at 100 foot intervals including change in direction.

- **General - Complete Proposal**

Proposed pricing is based on award of all items bid upon. PCS reserves the right to modify unit prices if all quoted items are not awarded. Prices are only valid for 90 days of the bid date. PCS reserves the right to modify or withdraw their offer if either a letter of intent or a contract is not received within 90 days of the bid date.

- **General - Proposal as Addendum to Contract**

This proposal in its entirety and including all notes of clarification shall be added as an addendum to any resulting contract for the referenced project. If any of the PCS notes of clarification conflict with the contract provisions, the PCS notes shall supersede the contract provisions and govern accordingly.

- **General - Tracer Wire (No WGU, Ground Rods)**

**Tracer Wire INCLUDES** cost to furnish and install tracer wire when installed in pipe with the FO cabling. PCS does not include any cost to furnish and/or install ground rods or cad welding.

**Payment Terms:**

Payment terms: NET 30 Days and 18% APR for balances exceeding 30 Days.

**ACCEPTED:**

The above prices, specifications and conditions are satisfactory and are hereby accepted.

**Buyer:** \_\_\_\_\_

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

**Date of Acceptance:** \_\_\_\_\_

**CONFIRMED:**

**Precision Contracting Services, Inc**

**Authorized Signature:** \_\_\_\_\_

**Estimator:** Robert Sanford

561-743-9737, ext. 7101    rsanford@pcsfiber.com