



Greenman-Pedersen, Inc.

**Design, Planning, Engineering
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SOUTH ROYALTON SIDEWALK SCOPING STUDY

ENGINEERS PRELIMINARY ESTIMATE OF PROBABLE COST - DRAFT

November 28, 2018

PROJECT NO:	MAX 2018045.00
PROJECT NAME:	South Royalton Sidewalk Scoping
CLIENT:	Town of Royalton
CALCULATED BY:	R. Hill
CHECKED BY:	C. Radisch
REVIEWED BY:	T. Lemire

In providing this opinion of probable costs the Client understands that: (1) subject plans are conceptual; (2) GPI has no control over the cost of availability of labor, equipment or materials, or over market conditions or the contractor's method of pricing; and (3) that our opinion of probable costs are made on the basis of our professional judgement and experience. We have made every attempt to provide an accurate estimate, but GPI makes no warranty, expressed or implied, that the bids or the negotiated cost of the work will not vary from the opinion of probable cost provided herein.



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CHELSEA STREET COMMERCIAL BLOCK: OPTION 1 (Repair + Replace)

Item No.	Description	Units	Quantity	Unit Cost	COST
203.28	Excavation Surfaces & Pavement	CY	167	\$100.00	\$16,700.00
616.40	Removing & Resetting Curb	LF	509	\$35.00	\$17,815.00
616.21	Vertical Granite Curb	LF	535	\$45.00	\$24,075.00
301.15	Subbase of Gravel	CY	49	\$50.00	\$2,450.00
609.1	Dust Control with Water	MGAL	1	\$1,100.00	\$1,100.00
618.10	5" Portland Cem Conc SW	SY	803	\$80.00	\$64,240.00
541.25	Concrete, Class B (6")	CY	44	\$309.00	\$13,624.61
651.35	Topsoil	CY	31	\$31.00	\$961.31
604.20	Catch Basin with grate	EA	5	\$4,700.00	\$23,500.00
604.21	Drain Manhole with grate	EA	2	\$5,500.00	\$11,000.00
601.0815	18" RCP Class III pipe	LF	202	\$105.00	\$21,210.00
210.10	Cold Planing, Bituminous Pavement (1.5")	SY	2340	\$4.00	\$9,361.78
406.25	Bit Conc Pavement (1.5")	TON	198	\$128.00	\$25,344.00
618.30	Detectable Warning Surface	SF	228	\$46.00	\$10,488.00
635.00	Mobilization/Demobilization	LS	1	\$17,500.00	\$17,500.00
646.24	12 inch White Line	LF	840	\$0.60	\$504.00
646.26	24 inch Stop Bar	LF	78	\$7.50	\$585.00
678.23	Wired Conduit	LF	325	\$18.20	\$5,915.00
678.24	Electrical Wiring	LF	325	\$17.70	\$5,752.50
678.25	Pull Box, Standard	EA	1	\$1.25	\$1.25
SP	Maintain Access to Stores During Construction	LS	1	\$25,000.00	\$25,000.00
SP	Remove and Reset Horse Trough	LS	1	\$3,500.00	\$3,500.00
SP	Ornamental Street Light	EA	5	\$9,000.00	\$45,000.00
Post Office					
203.28	Excavation Surfaces & Pavement	CY	8	\$100.00	\$793.33
616.40	Removing & Resetting Curb	LF	52	\$35.00	\$1,820.00
203.15	Common Excavation (6")	CY	12	\$32.00	\$397.04
616.21	Vertical Granite Curb	LF	53	\$45.00	\$2,385.00
301.15	Subbase of Gravel	CY	12	\$50.00	\$620.37
618.10	5" Portland Cem Conc SW	SY	74	\$80.00	\$5,955.56
604.20	Catch Basin with grate	EA	1	\$4,700.00	\$4,700.00
601.0815	18" RCP Class III pipe	LF	56	\$105.00	\$5,880.00
TOTAL:					\$368,178.75
w/20% Contingency:					\$441,814.49
Design/Engineering @ 15%:					\$66,272.17
Construction Inspection @ 12%:					\$53,017.74
GRAND TOTAL:					\$561,104.41
USE:					\$ 562,000



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CHELSEA STREET COMMERCIAL BLOCK: OPTION 2 (Accessible Shops)

Item No.	Description	Units	Quantity	Unit Cost	COST
203.28	Excavation Surfaces & Pavement	CY	269	\$100.00	\$26,900.00
616.40	Removing & Resetting Curb	LF	739	\$35.00	\$25,865.00
616.21	Vertical Granite Curb	LF	550	\$45.00	\$24,750.00
301.15	Subbase of Gravel	CY	592	\$50.00	\$29,600.00
609.1	Dust Control with Water	MGAL	1	\$1,100.00	\$1,100.00
618.10	5" Portland Cem Conc SW	SY	1685	\$80.00	\$134,800.00
541.25	Concrete, Class B (6")	CY	39	\$309.00	\$12,131.11
651.35	Topsoil	CY	12	\$31.00	\$371.31
604.20	Catch Basin with grate	EA	6	\$4,700.00	\$28,200.00
604.21	Drain Manhole with grate	EA	3	\$5,500.00	\$16,500.00
601.0815	18" RCP Class III pipe	LF	468	\$105.00	\$49,140.00
210.10	Cold Planing, Bituminous Pavement (1.5")	SY	1988	\$4.00	\$7,953.33
406.25	Bit Conc Pavement (1.5")	TON	168	\$350.00	\$58,800.00
618.30	Detectable Warning Surface	SF	228	\$46.00	\$10,488.00
635.00	Mobilization/Demobilization	LS	1	\$35,000.00	\$35,000.00
646.24	12 inch White Line	LF	840	\$0.60	\$504.00
646.26	24 inch Stop Bar	LF	78	\$7.50	\$585.00
678.23	Wired Conduit	LF	325	\$18.20	\$5,915.00
678.24	Electrical Wiring	LF	325	\$17.70	\$5,752.50
678.25	Pull Box, Standard	EA	1	\$1.25	\$1.25
SP	Sidewalk Interface with Doorways	EA	14	\$2,500.00	\$35,000.00
SP	Sidewalk Grates	EA	10	\$450.00	\$4,500.00
SP	Maintain Access to Stores During Construc	LS	1	\$25,000.00	\$25,000.00
SP	Remove and Reset Horse Trough	LS	1	\$3,500.00	\$3,500.00
SP	Handrailing	LF	493	\$150.00	\$73,950.00
605.1	6" Underdrain Pipe	LF	201	\$45.00	\$9,045.00
SP	Ornamental Benches	EA	6	\$1,000.00	\$6,000.00
SP	Ornamental Street Light	EA	5	\$9,000.00	\$45,000.00
SP	Planting	LS	1	\$20,000.00	\$20,000.00

Post Office

203.28	Excavation Surfaces & Pavement	CY	8	\$100.00	\$793.33
616.40	Removing & Resetting Curb	LF	52	\$35.00	\$1,820.00
203.15	Common Excavation (6")	CY	12	\$32.00	\$397.04
616.21	Vertical Granite Curb	LF	53	\$45.00	\$2,385.00
301.15	Subbase of Gravel	CY	12	\$50.00	\$620.37
618.10	5" Portland Cem Conc SW	SY	74	\$80.00	\$5,955.56
604.20	Catch Basin with grate	EA	1	\$4,700.00	\$4,700.00
601.0815	18" RCP Class III pipe	LF	56	\$105.00	\$5,880.00

TOTAL:					\$718,902.80
	w/20% Contingency:				\$862,683.36
	Design/Engineering @ 15%:				\$129,402.50
	Construction Inspection @ 12%:				\$103,522.00
	GRAND TOTAL				\$1,095,607.87
	USE:				\$ 1,096,000



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CHELSEA STREET COMMERCIAL BLOCK OPTION #3 (Accessible Shops / Relocate Loading)

Item No.	Description	Units	Quantity	Unit Cost	COST
203.28	Excavation Surfaces & Pavement	CY	273	\$100.00	\$27,300.00
616.40	Removing & Resetting Curb	LF	739	\$35.00	\$25,865.00
616.21	Vertical Granite Curb	LF	421	\$45.00	\$18,945.00
301.15	Subbase of Gravel	CY	592	\$50.00	\$29,600.00
609.1	Dust Control with Water	MGAL	1	\$1,100.00	\$1,100.00
618.10	5" Portland Cem Conc SW	SY	1695	\$80.00	\$135,600.00
635.00	Mobilization/Demobilization	LS	1	\$34,600.00	\$34,600.00
651.35	Topsoil	CY	35	\$31.00	\$1,096.88
203.31	Sand Borrow (7")	CY	62	\$30.00	\$1,865.67
604.20	Catch Basin with grate	EA	6	\$4,700.00	\$28,200.00
604.21	Drain Manhole with grate	EA	3	\$5,500.00	\$16,500.00
601.0815	18" RCP Class III pipe	LF	430	\$105.00	\$45,150.00
210.10	Cold Planing, Bituminous Pavement (1.5")	SY	1807	\$3.00	\$5,420.00
406.25	Bit Conc Pavement (1.5")	TON	153	\$350.00	\$53,550.00
618.30	Detectable Warning Surface	SF	216	\$46.00	\$9,936.00
646.24	12 inch White Line	LF	840	\$0.60	\$504.00
646.26	24 inch Stop Bar	LF	78	\$7.50	\$585.00
678.23	Wired Conduit	LF	325	\$18.20	\$5,915.00
678.24	Electrical Wiring	LF	325	\$17.70	\$5,752.50
678.25	Pull Box, Standard	EA	1	\$1.25	\$1.25
SP	Sidewalk Interface with Doorways	EA	14	\$2,500.00	\$35,000.00
SP	Sidewalk Grates	EA	10	\$450.00	\$4,500.00
SP	Maintain Access to Stores During Construction	LS	1	\$25,000.00	\$25,000.00
SP	Remove and Reset Horse Trough	LS	1	\$3,500.00	\$3,500.00
SP	Handrailing	LF	493	\$150.00	\$73,950.00
605.1	6" Underdrain Pipe	LF	201	\$45.00	\$9,045.00
SP	Ornamental Benches	EA	6	\$1,000.00	\$6,000.00
SP	Ornamental Street Light	EA	5	\$9,000.00	\$45,000.00
SP	Planting	LS	1	\$20,000.00	\$20,000.00
Post Office					\$0.00
203.28	Excavation Surfaces & Pavement	CY	8	\$100.00	\$793.33
616.40	Removing & Resetting Curb	LF	52	\$35.00	\$1,820.00
203.15	Common Excavation (6")	CY	12	\$30.00	\$372.22
616.21	Vertical Granite Curb	LF	53	\$54.00	\$2,862.00
301.15	Subbase of Gravel	CY	12	\$50.00	\$620.37
618.10	5" Portland Cem Conc SW	SY	74	\$80.00	\$5,955.56
604.20	Catch Basin with grate	EA	1	\$4,700.00	\$4,700.00
601.0815	18" RCP Class III pipe	LF	56	\$105.00	\$5,880.00
TOTAL:					\$692,484.78
w/20% Contingency:					\$830,981.74
Design/Engineering @ 15%:					\$124,647.26
Construction Inspection @ 12%:					\$99,717.81
GRAND TOTAL					\$1,055,346.81
USE:					\$ 1,056,000



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PARK STREET (Angled Parking and Sidewalk)

Item No.	Description	Units	Quantity	Unit Cost	COST
616.40	Removing & Resetting Curb	LF	239	\$35.00	\$8,365.00
203.15	Common Excavation	CY	185	\$32.00	\$5,906.43
203.28	Excavation Surfaces & Pavement	CY	8	\$100.00	\$800.00
635.00	Mobilization/Demobilization	LS	1	\$3,000.00	\$3,000.00
203.31	Sand Borrow (12"). On-street parking	CY	84	\$30.00	\$2,505.56
301.15	Subbase of Gravel. On-street parking	CY	84	\$50.00	\$4,175.93
406.25	Bit Conc Pavement. On-street parking	TON	35	\$350.00	\$12,250.00
616.21	Vertical Granite Curb (Park St.)	LF	75	\$45.00	\$3,375.00
618.10	5" Portland Cem Conc SW (Park St.)	SY	245	\$80.00	\$19,600.00
618.30	Detectable Warning Surface	SF	24	\$46.00	\$1,104.00
301.15	Subbase of Gravel (Park St.)	CY	40	\$50.00	\$2,000.00
203.31	Sand Borrow (12") (Park St.)	CY	71	\$30.00	\$2,124.44
651.35	Topsoil (Park St.)	CY	15	\$31.00	\$474.09
630.15	Flaggers (Park St.,1 required)	HR	32	\$32.00	\$1,024.00
TOTAL:					\$66,704.45
w/20% Contingency:					\$80,045.34
Design/Engineering @ 15%:					\$12,006.80
Construction Inspection @ 12%:					\$9,605.44
GRAND TOTAL					\$101,657.58
USE:					\$ 102,000



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RAILROAD STREET (Angled Parking and Sidewalk - North Side Only)

Item No.	Description	Units	Quantity	Unit Cost	COST
203.28	Excavation Surfaces & Pavement	CY	16	\$100.00	\$1,619.44
616.40	Removing & Resetting Curb	LF	274	\$35.00	\$9,590.00
203.15	Common Excavation	CY	435	\$32.00	\$13,920.00
203.31	Sand Borrow (12")	CY	113	\$30.00	\$3,400.00
301.15	Subbase of Gravel	CY	113	\$50.00	\$5,666.67
406.25	Bit Conc Pavement	TON	47	\$350.00	\$16,450.00
616.21	Vertical Granite Curb	LF	83	\$45.00	\$3,735.00
618.10	5" Portland Cem Conc SW	SY	219	\$80.00	\$17,537.78
301.15	Subbase of Gravel	CY	37	\$50.00	\$1,826.85
203.31	Sand Borrow (12")	CY	73	\$30.00	\$2,192.22
651.35	Topsoil	CY	16	\$31.00	\$483.27
618.30	Detectable Warning Surface	SF	24	\$46.00	\$1,104.00
646.24	12 inch White Line	LF	120	\$0.60	\$72.00
646.26	24 inch Stop Bar	LF	13	\$7.50	\$97.50
609.1	Dust Control with Water	MGAL	1	\$1,100.00	\$1,100.00
630.15	Flaggers (Park St.,1 required)	HR	48	\$32.00	\$1,536.00
635.11	Mobilization / Demobilization	LS	1	\$4,600.00	\$4,600.00
	TOTAL:				\$84,930.73

w/20% Contingency:	\$101,916.88
Design/Engineering @ 15%:	\$15,287.53
Construction Inspection @ 12%:	\$12,230.03
GRAND TOTAL	\$129,434.44
USE:	\$ 130,000



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SOUTH WINDSOR AT THE GREEN (Sidewalks Both Sides)

Item No.	Description	Units	Quantity	Unit Cost	COST
203.28	Excavation Surfaces & Pavement	CY	42	\$100.00	\$4,200.00
616.40	Removing & Resetting Curb	LF	598	\$35.00	\$20,930.00
635.11	Mobilization / Demobilization	LS	1	\$4,400.00	\$4,400.00
618.10	5" Portland Cem Conc SW	SY	512	\$80.00	\$40,960.00
301.15	Subbase of Gravel	CY	82	\$50.00	\$4,100.00
203.31	Sand Borrow (12")	CY	103	\$30.00	\$3,088.89
616.21	Vertical Granite Curb	LF	192	\$45.00	\$8,640.00
618.30	Detectable Warning Surface	SF	72	\$46.00	\$3,312.00
651.35	Topsoil	CY	30	\$31.00	\$942.07
646.24	12 inch White Line	LF	480	\$0.60	\$288.00
646.26	24 inch Stop Bar	LF	39	\$7.50	\$292.50
630.15	Flaggers	HR	80	\$32.00	\$2,560.00
	TOTAL:				\$93,713.46

w/20% Contingency:	\$112,456.15
Design/Engineering @ 15%:	\$16,868.42
Construction Inspection @ 12%:	\$13,494.74
GRAND TOTAL	\$142,819.31
USE:	\$ 143,000



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SOUTH WINDSOR TO SCHOOL (Sidewalks Both Sides)

Item No.	Description	Units	Quantity	Unit Cost	COST
203.28	Excavation Surfaces & Pavement	CY	77	\$100.00	\$7,700.00
616.40	Removing & Resetting Curb	LF	453	\$35.00	\$15,855.00
635.11	Mobilization / Demobilization	LS	1	\$9,000.00	\$9,000.00
618.10	5" Portland Cement Concrete SW	SY	813	\$80.00	\$65,040.00
616.21	Vertical Granite Curb	LF	537	\$45.00	\$24,165.00
301.15	Subbase of Gravel	CY	136	\$50.00	\$6,800.00
651.35	Topsoil	CY	71	\$31.00	\$2,201.00
651.15	Seed	LB	1	\$7.70	\$7.70
406.25	Bituminous Concrete Pavement	TON	8	\$350.00	\$2,800.00
618.30	Detectable Warning Surface	SF	144	\$46.00	\$6,624.00
675.20	Traffic Sign Type A	SF	18	\$15.00	\$270.00
646.85	Removal of Existing Pavement Markings	SF	184	\$3.00	\$552.00
646.24	12 inch White Line	LF	880	\$0.60	\$528.00
646.26	24 inch Stop Bar	LF	84	\$7.50	\$630.00
SP	RRFB System (2 required)	EA	1	\$35,000.00	\$35,000.00
609.1	Dust Control with Water	MGAL	1	\$1,100.00	\$1,100.00
630.15	Flaggers (1 required)	HR	160	\$32.00	\$5,120.00
635.11	Mobilization / Demobilization	LS	1	\$9,000.00	\$9,000.00
	TOTAL:				\$192,392.70

w/20% Contingency:	\$220,097.90
Design/Engineering @ 15%:	\$33,014.69
Construction Inspection @ 12%:	\$26,411.75
GRAND TOTAL	\$279,524.33
USE:	\$ 280,000.00



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SOUTH WINDSOR SHARED USE PATH

Item No.	Description	Units	Quantity	Unit Cost	COST
203.28	Excavation Surfaces & Pavement	CY	32	\$200.00	\$6,365.33
203.15	Common Excavation	CY	433	\$30.00	\$12,990.00
651.35	Topsoil	CY	50	\$31.00	\$1,550.00
651.15	Seed	LB	1	\$7.70	\$7.70
406.25	Bituminous Concrete Pavement	TON	85	\$350.00	\$29,750.00
301.15	Subbase of Gravel	CY	124	\$50.00	\$6,200.00
203.31	Sand Borrow (12")	CY	249	\$30.00	\$7,470.00
618.30	Detectable Warning Surface	SF	48	\$46.00	\$2,208.00
SP	RRFB System (2 required)	EA	1	\$47,000.00	\$47,000.00
609.1	Dust Control with Water	MGAL	1	\$1,100.00	\$1,100.00
630.15	Flaggers (1 required)	HR	56	\$32.00	\$1,792.00
635.11	Mobilization / Demobilization	LS	1	\$5,750.00	\$5,750.00
	TOTAL:				\$122,183.03
	w/20% Contingency:				\$146,619.64
	Design/Engineering @ 15%:				\$21,992.95
	Construction Inspection @ 12%:				\$17,594.36
	GRAND TOTAL				\$186,206.94
	USE:				\$ 187,000



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RAILROAD/SAFFORD/ALEXANDER

Item No.	Description	Units	Quantity	Unit Cost	COST
203.28	Excavation Surfaces & Pavement	CY	37	\$100.00	\$3,700.00
529.25	Removal of Concrete or Masonry	CY	26	\$550.00	\$14,300.00
203.15	Common Excavation	CY	352	\$30.00	\$10,560.00
616.21	Vertical Granite Curb	LF	462	\$45.00	\$20,790.00
618.10	5" Portland Cement Concrete	SY	281	\$80.00	\$22,480.00
301.15	Subbase of Gravel	CY	47	\$50.00	\$2,350.00
203.31	Sand Borrow (12")	CY	94	\$30.00	\$2,820.00
651.35	Topsoil	CY	23	\$31.00	\$701.96
406.25	Bituminous Concrete Pavement	TON	5	\$350.00	\$1,750.00
618.30	Detectable Warning Surface	SF	36	\$46.00	\$1,656.00
SP1	MSE or concrete ret. wall behind SW	SF	1080	\$30.00	\$32,400.00
SP2	Cast-in-Place Concrete Steps	EA	3	\$2,800.00	\$8,400.00
646.24	12 inch White Line	LF	128	\$0.60	\$76.80
646.26	24 inch Stop Bar	LF	32	\$7.50	\$240.00
609.1	Dust Control with Water	MGAL	1	\$1,100.00	\$1,100.00
630.15	Flaggers (Safford St., 1 required)	HR	88	\$32.00	\$2,816.00
635.11	Mobilization / Demobilization	LS	1	\$6,250.00	\$6,250.00
TOTAL:					\$132,390.76

w/20% Contingency:	\$158,868.92
Design/Engineering @ 15%:	\$23,830.34
Construction Inspection @ 12%:	\$19,064.27
GRAND TOTAL	\$201,763.52



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NORTH WINDSOR STREET (Sidewalks Both Sides)

Item No.	Description	Units	Quantity	Unit Cost	COST
203.28	Excavation Surfaces & Pavement	CY	55	\$100.00	\$5,500.00
203.15	Common Excavation (4")	CY	331	\$32.00	\$10,592.00
203.31	Sand Borrow (12")	CY	227	\$30.00	\$6,810.00
301.15	Subbase of Gravel	CY	113	\$50.00	\$5,650.00
618.10	5" Portland Cem Conc SW	SY	681	\$80.00	\$54,480.00
616.21	Vertical Granite Curb	LF	194	\$45.00	\$8,730.00
618.30	Detectable Warning Surface	SF	24	\$46.00	\$1,104.00
651.35	Topsoil	CY	53	\$31.00	\$1,643.00
646.24	12 inch White Line	LF	120	\$0.60	\$72.00
646.26	24 inch Stop Bar	LF	26	\$7.50	\$195.00
609.1	Dust Control with Water	MGAL	1	\$1,100.00	\$1,100.00
630.15	Flaggers	HR	128	\$32.00	\$4,096.00
635.11	Mobilization / Demobilization	LS	1	\$5,000.00	\$5,000.00
	TOTAL:				\$104,972.00
	w/20% Contingency:				\$125,966.40
	Design/Engineering @ 15%:				\$18,894.96
	Construction Inspection @ 12%:				\$15,115.97
	GRAND TOTAL				\$159,977.33
	USE:				\$ 160,000



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CHELSEA STREET (East - Sidewalk and Crosswalks)

Item No.	Description	Units	Quantity	Unit Cost	COST
203.28	Excavation Surfaces & Pavement	CY	19	\$100.00	\$1,900.00
529.25	Removal of Concrete or Masonry	CY	8	\$550.00	\$4,400.00
203.15	Common Excavation (36")	CY	307	\$30.00	\$9,210.00
203.31	Sand Borrow (12")	CY	64	\$30.00	\$1,920.00
301.15	Subbase of Gravel	CY	31	\$50.00	\$1,550.00
609.1	Dust Control with Water	MGAL	1	\$1,100.00	\$1,100.00
618.10	5" Portland Cem Conc SW	SY	190	\$80.00	\$15,200.00
SP1	MSE or concrete ret. wall behind SW	SF	535	\$30.00	\$16,050.00
SP3	Cast-in-Place Concrete Steps	EA	2	\$2,800.00	\$5,600.00
618.30	Detectable Warning Surface	SF	48	\$46.00	\$2,208.00
616.21	Vertical Granite Curb	LF	163	\$45.00	\$7,335.00
616.40	Removing & Resetting Curb	LF	18	\$35.00	\$630.00
635.11	Mobilization/Demobilization	LS	1	\$5,500.00	\$5,500.00
651.35	Topsoil	CY	10	\$31.00	\$303.57
646.24	12 inch White Line	LF	120	\$0.60	\$72.00
SP4	RRFB System (2 required)	EA	1	\$35,000.00	\$35,000.00
630.15	Flaggers (Park St.,1 required)	HR	32	\$32.00	\$1,024.00
TOTAL:					\$109,002.57

w/20% Contingency:	\$130,803.09
Design/Engineering @ 15%:	\$19,620.46
Construction Inspection @ 12%:	\$15,696.37
GRAND TOTAL	\$166,119.92
USE:	\$ 167,000