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August 14, 2018

Luke McCoy
 PLA, LEED
 Kaestle Boos Associates, Inc.
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**RE: Athletic Facilities Renovation Project - Derby High School, Derby, CT
 City Project No. COD 2018-02 (B)
 Proposal for SKC - 1.1 Storm Water Revisions**

Dear Mr. McCoy,

As per your request the following proposal for changes made by Sheet SKC- 1.1 Storm Water revision as per your request. The following proposal includes the removal and disposal of 12" & 18" diameter RCP at an average 8' depth as identified at our last job meeting, removal and disposal of existing catch basins, installation of additional man holes, revisions to existing manholes due to increase in pipe diameter, and the installation of 15" HDPE solid and 10" HDPE perforated as per project plans and specifications. Proposal is as follows;

SKC - 1.1 Storm Water Revision

<u>Description</u>	<u>Qty</u>	<u>Unit</u>	<u>Unit</u>
<u>Demolition</u>			
Rem. & Disp. CB	2.00	EA	
Backfill - M05.01/ Lifts/ Compacted	15.00	TN	
Total			\$1,310.00

<u>Rem. & Disp. 12" RCP, 8' avg. depth</u>	260.00	LF	\$103.92 lf
Exc. 3.5'w x 8'd x 260'/27 x 1.15 to Exp.	310.00	CY	
Rem. & load Dumpster - 12" RCP	260.00	LF	
Disposal - Concrete Dumpster	1.00	EA	
Backfill - M05.01/ Lifts/ Compacted	425.00	TN	
Testing	1.00	Day	
Trench box	1.00	LS	
Total			\$27,021.40



<u>Description</u>	<u>Qty</u>		<u>Unit</u>
<u>Rem. & Disp. 18 " RCP , 8' avg. depth</u>	320.00		LF
<i>removal under proposed Synthetic Turf field</i>			\$123.59 lf
Exc. 3.5'w x 8'd x 320'/27 x 1.15 to Exp.	382.00		CY
Rem. & load Dumpster - 18" RCP	320.00		LF
Disposal - Concrete Dumpster	2.00		EA
Backfill - M05.01/ Lifts/ Compacted	523.00		TN
Testing	2.00		Day
Trench box	1.00		LS
Total			\$39,548.80

Pipe & Structure Revisions

<u>Manholes</u>	1		LS
<u>Deduct 30" Sq MH - No 3 & 4</u>			\$1,457. ea
<i>Larger MH req. due to increase in pipe dia.</i>			
<u>30" Sq. Storm Manhole - 5.67 ' avg. depth</u>	-2		EA
Exc. 5.67'd x 7' x 7/ 27 x 1.15 =	(24)		CY
Structure w/ Casting	-2		EA
Bedding - 3/4" crushed Stone	-2		TN
Backfill	-19		CY
Displacement	-5		CY
Total			-\$2,914.00

Install

<u>4' dia. Manhole - 6.81 depth</u>	1		EA
<i>Revised MH No. 3</i>			
Exc. 7.31'd x 8' x 8/ 27 x 1.15 =	20		CY
Structure w/ Casting	1		EA
Bedding - 3/4" crushed Stone	1		TN
Backfill	15		CY
Displacement	5		CY
Total			\$2,454.00

<u>Description</u>	<u>Qty</u>		<u>Unit</u>
<u>5' dia. Manhole - 5.04' & 8.73' depths</u>	2		EA
<i>revised MH No. 4 & 9</i>			
Exc. 7.38'd x 10' x 10/ 27 x 1.15 =	32		CY
Structure w/ Casting	2		EA
Bedding - 3/4" crushed Stone	3		TN
Backfill	24		CY
Displacement	8		CY
Total - \$2,668.50 ea			\$5,337.00
<u>30" Sq. Storm Manhole - 7.83' avg. d</u>	2		EA
<i>MH No. 10 & 11</i>			
Exc. 8.33'd x 6 x 6/ 27 x 1.15 =	26		CY
Structure w/ Casting	2		EA
Bedding 3/4" crushed Stone	2		TN
Backfill	19		CY
Displacement	7		CY
Total - \$2,330.00 ea			\$4,660.00
Deduct 12" HDPE	304.00		LF
			\$49.43 lf
<u>Deduct 12" dia. HDPE, Solid , 5.48' avg.</u>	-304		LF
Exc.2 'w x 5.48'd x 337'l/ 27 x 1.15 =	-157		CY
Inst 12" HDPE	-304		LF
Bedding 3/4" crushed Stone	-212		TN
Displacement to Export	-29		CY
Total			-\$14,997.30
<u>ADD 15" dia. HDPE, Solid , 5.48' avg.</u>	312		LF
<i>Stone to surface under pavement/ field/ compacted</i>			
Exc. 3 'w x 5.48'd x 312'l/ 27 x 1.15 =	219		CY
Inst 15" HDPE	312		LF
3/4" crushed Stone Bedding to surface	229		TN
Displacement to Export	176		CY
Total			\$24,666.72

10" dia. HDPE, perf.	284	LF	\$80.03 lf
<i>pipe under pavement/ gravel to surface/ compacted</i>			
Exc. 2.833 'w x 5.89'd x 284'l/ 27 x 1.15 =	202	CY	
Inst 10" HDPE perf	284	EA	
Fittings	1	LS	
3/4" crushed Clean -2.833 x 5.167'd avg.	242	TN	
Filter Fabric	379	SY	
Displacement to Export	202	CY	
Total			<u>\$22,730.04</u>
Grand Total			\$109,816.66

Please feel free to call if you should have any questions or required additional information.

Best regards,

Adam S. Horton
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