

**Warwick Public Schools
Toll Gate High School
Warwick, RI 02886**

Schematic Design Estimate

August 18, 2023

Client:
City of Warwick, RI

Architects
Saccoccio & Associates Architects
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Cranston, RI 02910

SAAM Architecture
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DOCUMENTATION

This estimate was prepared based on Stage II schematic design development documents prepared by saam architecture
Documents dated 02/15/2022

PROJECT OUTLINE

The project consists of a new school building

Work Zone Areas (GSF)

0 - GSF Level 1	modified through value engineering (VE)
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0 - GSF Level 2	modified through VE
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221,400 - GSF Total	reduced GSF through VE
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BASIS FOR PRICING

Pricing assumes procurement through conventional design, bid, with an awarded general contractor procured through competitive bidding

Subcontractor's mark-ups have been included in each line item unit price. Mark-ups cover the cost of field overhead,

home office overhead and subcontractor's profit. Subcontractor's mark-ups typically range from 5% to 15% of the unit price depending on market conditions.

This estimate is utilizing non-union merit shop labor

We have included a Design Contingency percentage to cover cost increases that will occur during design elaboration or unforeseen

design issues. As the design develops, the design contingency is reduced, and is eliminated at the final Construction Document estimate.

Escalation to anticipated construction mid-point is estimated as a percentage in the Summary page

CLARIFICATION

In some instances, the CSI divisional trade costs values carried within the estimate has been reduced by a factorial percentage to account for reductions in the GSF of the school building. Ellana's estimate is representative of the scope outlined in the 02/15/2022 SD pricing set and does not include any value engineering (VE) efforts beyond the issued drawings of the 02/15/2023 set

Where applicable, Ellana has referenced the adjusted GSF of the project as: 221,400 - GSF Total

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

Furniture, and equipment provided by Owner

Overtime outside industry standard

Work outside normal hours of operation

No permits or special fees have been included

Third party commissioning costs.

Owner supplied and/or installed items

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Air Quality monitoring / Vibration monitoring

The estimate assumes all long-lead items can be pre-purchased to meet schedule requirements.

The estimate is based on the premise that the design will meet all codes, laws, ordinances, rules, and regulations in effect at the time that the estimate was prepared. The estimate shall be adjusted should any discrepancies between design and the aforementioned codes, laws or ordinances result in, or require, an increase in the Cost 'of the Work

Items identified in the design as Not In Contract (NIC)

Builder's Risk insurance, terrorist insurance and other Owner insurances

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221,400 GSF

COST SUMMARY		Cost	Cost/sf
01	General Requirements	\$572,100	\$2.58
02	Existing Conditions	\$1,995,769	\$9.01
03	Concrete	\$5,202,497	\$23.50
04	Masonry	\$11,938,756	\$53.92
05	Metals	\$18,865,085	\$85.21
06	Wood, Plastics, and Composites	\$1,459,977	\$6.59
07	Thermal & Moisture Protection	\$13,821,309	\$62.43
08	Openings	\$8,345,860	\$37.70
09	Finishes	\$7,502,565	\$33.89
10	Specialties	\$1,490,525	\$6.73
11	Equipment	\$2,376,740	\$10.74
12	Furnishings	\$1,497,523	\$6.76
13	Special Construction	\$9,456,123	\$42.71
14	Conveying Equipment	\$175,000	\$0.79
21	Fire Suppression	\$1,957,060	\$8.84
22	Plumbing	\$7,998,170	\$36.13
23	HVAC	\$18,263,500	\$82.49
26	Electrical	\$11,499,912	\$51.94
31	Earthwork	\$7,982,082	\$36.05
32	Exterior Improvements	\$6,721,657	\$30.36
33	Utilities	\$1,997,721	\$9.02
SUBTOTAL DIRECT TRADE COST		141,119,931	\$637.40

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221,400 GSF

COST SUMMARY		Cost	Cost/sf
Escalation	8.00%	\$11,289,595	\$50.99
TOTAL DIRECT TRADE COST		152,409,526	\$688.39
General Conditions	2.13%	\$3,240,000	\$14.63
General Requirements	2.00%	\$3,048,191	\$13.77
Bonds	0.75%	\$1,143,071	\$5.16
Insurances	1.25%	\$1,905,119	\$8.60
OH&P	3.00%	\$4,852,377	\$21.92
Value Engineering (Not covered in Direct Trade Cost)		(\$16,000,000)	(\$72.27)
TOTAL ESTIMATED CONSTRUCTION COST		150,598,284	\$680.21

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
1	01	General Requirements						
2		<i>General Requirements</i>						
3		Temporary barriers and protection, set-ups	1,350	lf	\$99.00	\$133,650		
4		Temporary barriers and protection, tear down	1,350	lf	\$13.00	\$17,550		
5		On-going protections, safety, cleanings, site maintenance	61	wk	\$6,900.00	\$420,900		
6								
7		<i>Sub Total : General Requirements</i>				572,100		
8								
9		Subtotal for - General Requirements					\$572,100	
10								
11	02	Existing Conditions						
12		Site Demolition & Relocations						
13		Demolish existing school building	198,554	sf	7.70	1,528,866		
14		R & D Stadium	8,590	sf	8.00	68,720		
15		Demolish existing track surface	39,034	sf	1.50	58,551		
16		R & D long jump	1,345	sf	1.00	1,345		
17		Sawcut exist concrete paving	650	lf	11.50	7,475		
18		R & D existing asphalt pavement	18,837	sf	1.00	18,837		
19		R & D concrete walkway	1,440	sf	2.50	3,600		
20		Remove existing stone wall	760	lf	105.00	79,800		
21		Remove bollards	7	ea	65.00	455		
22		R & D existing curb	1	al	10,500.00	10,500		
23		Remove stairs	2,040	sf	4.50	9,180		
24		Remove fence	880	lf	7.00	6,160		
25		Remove guardrail	720	lf	6.50	4,680		
26		Relocated light pole	4	ea	1,700.00	6,800		
27		<i>Cut, cap and remove existing utility</i>						
28		R & D existing utility	1	al	45,000.00	45,000		
29		Misc. demolition	1	ls	35,000.00	35,000		
30		Cart away & disposal	1	ls	15,800.00	15,800		
31		Protect existing to remain	1	al	20,000.00	20,000		
32								
33		<i>Sub Total : Site Demolition & Relocations</i>				1,920,769		
34								
35		<i>Asbestos & HazMat Abatement</i>						
36		Hazardous material identification and removal, allowance	198,554	gsf	\$0.38	\$75,000		
37								
38		<i>Sub Total : Asbestos & HazMat Abatement</i>						
39							\$75,000	
40								
41		Subtotal for - Existing Conditions					\$1,995,769	
42								
43	03	Concrete						
44		<i>Cast-in-Place Concrete - Formwork</i>						
45		Footing, 0808	271	ea		\$0		
46		Formwork	13,008	sf	\$18.00	\$234,144		
47		Concrete materials	964	cy	\$165.00	\$159,060		\$719



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DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
48		Concrete pour labor	964	cy	\$115.00	\$110,860		
49		90 lbs/CY	44	tns	\$4,300.00	\$189,200		
50		Foundation mat slab, 12"	6,383	sf		\$0		
51		Formwork	1,922	sf	\$18.00	\$34,596		
52		Concrete materials	237	cy	\$165.00	\$39,105		\$626
53		Concrete pour labor	237	cy	\$115.00	\$27,255		
54		90 lbs/CY	11	tns	\$4,300.00	\$47,300		
55		Foundation wall, 12"	622	lf		\$0		
56		Formwork	3,732	sf	\$18.00	\$67,176		
57		Concrete materials	70	cy	\$165.00	\$11,550		\$1,485
58		Concrete pour labor	70	cy	\$115.00	\$8,050		
59		90 lbs/CY	4	tns	\$4,300.00	\$17,200		
60		Foundation wall, 14"	2,626	lf		\$0		
61		Formwork	15,756	sf	\$18.00	\$283,608		
62		Concrete materials	341	cy	\$165.00	\$56,265		\$1,313
63		Concrete pour labor	341	cy	\$115.00	\$39,215		
64		90 lbs/CY	16	tns	\$4,300.00	\$68,800		
65		Foundation wall, auditorium cheek wall, 12"	354	lf		\$0		
66		Formwork	5,664	sf	\$18.00	\$101,952		
67		Concrete materials	123	cy	\$165.00	\$20,295		\$1,319
68		Concrete pour labor	123	cy	\$115.00	\$14,145		
69		90 lbs/CY	6	tns	\$4,300.00	\$25,800		
70		Foundation wall, elev pit, 12"	30	lf		\$0		
71		Formwork	180	sf	\$18.00	\$3,240		
72		Concrete materials	4	cy	\$165.00	\$660		\$2,165
73		Concrete pour labor	4	cy	\$115.00	\$460		
74		90 lbs/CY	1	tns	\$4,300.00	\$4,300		
75		Mat slab, elev pit, 12"	125	sf		\$0		
76		Formwork	90	sf	\$18.00	\$1,620		
77		Concrete materials	5	cy	\$165.00	\$825		\$1,464
78		Concrete pour labor	5	cy	\$115.00	\$575		
79		90 lbs/CY	1	tns	\$4,300.00	\$4,300		
80		Pier, 1616	80	ea		\$0		
81		Formwork	1,440	sf	\$18.00	\$25,920		
82		Concrete materials	18	cy	\$165.00	\$2,970		\$1,959
83		Concrete pour labor	18	cy	\$115.00	\$2,070		
84		90 lbs/CY	1	tns	\$4,300.00	\$4,300		
85		Conc interior footing, 03 x 01	89	lf		\$0		
86		Formwork	178	sf	\$18.00	\$3,204		
87		Concrete materials	10	cy	\$165.00	\$1,650		\$1,030
88		Concrete pour labor	10	cy	\$115.00	\$1,150		
89		90 lbs/CY	1	tns	\$4,300.00	\$4,300		
90		Conc perimeter footing, 03 x 01	2,626	lf		\$0		
91		Formwork	5,252	sf	\$18.00	\$94,536		
92		Concrete materials	292	cy	\$165.00	\$48,180		\$810
93		Concrete pour labor	292	cy	\$115.00	\$33,580		
94		90 lbs/CY	14	tns	\$4,300.00	\$60,200		

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
95		Foundation wall, loading area, 16" w/ footing	96	lf		\$0		
96		Formwork	2,112	sf	\$18.00	\$38,016		
97		Concrete materials	53	cy	\$165.00	\$8,745		\$1,241
98		Concrete pour labor	53	cy	\$115.00	\$6,095		
99		90 lbs/CY	3	tns	\$4,300.00	\$12,900		
100		Free standing columns at Lobby, Dining and Learning Commons; CIP (with no attached co	30	ea		\$0		
101		Formwork	3,840	sf	\$18.00	\$69,120		
102		Concrete materials	143	cy	\$165.00	\$23,595		\$974
103		Concrete pour labor	143	cy	\$115.00	\$16,445		
104		90 lbs/CY	7	tns	\$4,300.00	\$30,100		
105		Other Work, formwork				\$0		
106		Trade coordination and site logistics	1	ls	\$205,900.00	\$205,900		
107								
108		Adjustment for reduced GSF Cast-in-Place Concrete - Formwork	-10.00%	adj	2,264,532	(\$226,453)		
109								
110		Sub Total : Cast-in-Place Concrete - Formwork				2,038,079		
111								
112		Cast-in-Place Concrete - Flatwork						
113		Slab on deck, 03", level 02	75,438	sf	\$10.50	\$792,099		
114		Concrete materials	734	cy				
115		Slab on grade, 05", level 01	163,637	sf	\$14.00	\$2,290,918		
116		Concrete materials	2,652	cy				
117		Vapor barrier, slab on grade	163,637	sf	\$1.75	\$286,365		
118		Slab on grade, auditorium seating, premium	4,742	sf	\$7.00	\$33,194		
119		Other Work, Concrete flatwork						
120		Trade coordination and site logistics	1	ls	\$102,100.00	\$102,100		
121								
122		Adjustment for reduced GSF Cast-in-Place Concrete - Flatwork	-10.00%	adj	3,402,576	(\$340,258)		
123								
124		Sub Total : Cast-in-Place Concrete - Flatwork				\$3,164,418		
125								
126		Subtotal for - Concrete					\$5,202,497	
127								
128	04	Masonry						
129		Exterior Façade						
130		Ground face concrete block veneer 8x8x16/4x8x16 w/with masonry tiebacks and horizontal joint reinforcing at 1st Floor	25,867	sf	\$54.00	\$1,396,818		
131		Auditorium	17,356	sf	\$54.00	\$937,224		
		Exterior Wall Backup						
133		Reinforced 12" CMU backup wall at Auditorium	17,356	sf	\$45.00	\$781,020		
134		Interior CMU						
135		4" CMU wall	22,249	sf	\$42.00	\$934,458		
136		6" CMU wall	118,320	sf	\$46.00	\$5,442,720		
137		8" CMU wall	7,821	sf	\$48.00	\$375,408		
138		12" CMU wall	42,057	sf	\$52.00	\$2,186,964		
139		Bond beam	13,226	lf	\$45.00	\$595,172		
140		Lintel, CMU wall door opening, install - furnish by 050000 Misc Metals	45	ea	\$1,250.00	\$56,250		

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
141								
142		Adjustment for reduced building GSF & height	-8%	adj	\$9,590,971.94	(\$767,278)		
143								
144		Sub Total : Interior CMU				11,938,756		
145								
146		Subtotal for - Masonry					\$11,938,756	
147								
148	05	Metals						
149		Structural Steel Framing						
150		Steel framing, new bldg	1,780	tns	\$6,500.00	\$11,570,000		221,400 GSF
151		Bolts, plates, connections	267	tns	\$6,500.00	\$1,735,500		
152		Metal Decking						
153		Metal decking, level 02	75,438	sf	\$4.90	\$369,646		
154		Metal decking, roof	158,231	sf	\$4.90	\$775,332		
155		Other Steel						
156		Track mezzanine framing and supports	20	tns	\$8,200.00	\$164,000		
157		Steel, RTU dunnage, galv	31	tns	\$6,500.00	\$201,500		
158		Steel, galv steel	31	tns	\$3,400.00	\$105,400		
159		Misc steel, façade framing	89	tns	\$6,500.00	\$578,500		
160		Trade coordination and site logistics	1	ls	\$620,000.00	\$620,000		
161								
162		Adjustment for reduced GSF	-1.00%	adj	16,119,878	(\$161,199)		
163								
164		Sub Total : Structural Steel Framing				15,958,679		
165								
166		Metal Fabrications						
167		Lintel, CMU wall door opening, furnish - install by 0410000 Masonry	45	ea	\$1,320.00	\$59,400		
168		Railing, auditorium	219	lf	\$390.00	\$85,410		
169		Railing, CTC gallery, 4 side	122	lf	\$610.00	\$74,420		
170		Railing, Extended Learning # 01, 2 side	115	lf	\$610.00	\$70,150		
171		Railing, Extended Learning # 02, 3 side	87	lf	\$610.00	\$53,070		
172		Railing, Extended Learning # 03, 2 side	127	lf	\$610.00	\$77,470		
173		Railing, Extended Learning # 04 ,4 side	119	lf	\$610.00	\$72,590		
174		Railing, Learning	23	lf	\$610.00	\$14,030		
175		Railing, track mezzanine, 2 side	904	lf	\$600.00	\$542,400		
176		Stair # 01, egress	1	ea	\$47,000.00	\$47,000		
177		Stair # 02, egress	1	ea	\$47,000.00	\$47,000		
178		Stair # 03, egress	1	ea	\$47,000.00	\$47,000		
179		Stair # 04, egress	1	ea	\$47,000.00	\$47,000		
180		Stair # 05, egress	1	ea	\$47,000.00	\$47,000		
181		Stair # 06, egress	1	ea	\$47,000.00	\$47,000		
182		Stair # 07, egress	1	ea	\$47,000.00	\$47,000		
183		Stair, auditorium Type 01	2	ea	\$19,000.00	\$38,000		
184		Stair, auditorium Type 02	2	ea	\$17,000.00	\$34,000		
185		Stair, CTC Construct	1	ea	\$38,000.00	\$38,000		
186		Stair, CTC Elec	1	ea	\$28,000.00	\$28,000		
187		Stair, learning	1	ea	\$78,000.00	\$78,000		

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Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
188		Stair, track mezzanine	1	ea	\$35,000.00	\$35,000		
189		Steel support, Level 01 Conf/Small Group Seminar #1/#2 partition	62	lf	\$700.00	\$43,400		
190		Steel support, Level 02, Small Group Seminar #1/#2 partition	31	lf	\$700.00	\$21,700		
191		Other Misc Metals						
192		Misc metals, exterior façade construction	110	tn	\$5,400.00	\$594,000		
193		Misc metals, interior wall construction	70	tn	\$5,400.00	\$378,000		
194		Misc metals, interior millwork/finishes construction	60	tn	\$5,400.00	\$324,000		
195		Trade coordination and site logistics	1	ls	\$239,300.00	\$239,300		
196								
197		Adjustment for reduced GSF	-10.00%	adj	3,229,340	(\$322,934)		
198								
199		Sub Total : Metal Fabrications				\$2,906,406		
200								
201		Subtotal for - Metals					\$18,865,085	
202								
203	06	Wood, Plastics, and Composites						
204		Rough Carpentry						
205		Wood blocking to roof	167,621	sf	\$2.00	\$335,242		
206		Install door and frame	436	ea	\$275.00	\$119,900		
207		Wood blocking at doors/windows openings	12,556	lf	\$5.00	\$62,780		
208		Misc rough carpentry associated w/partitions, specialties, casework, equipment	221,400	gsf	\$1.75	\$387,450		
209								
210		Adjustment for reduced GSF	-10%	adj	905,372	(\$90,537)		
211								
212		Sub Total : Rough Carpentry				814,835		
213								
214		Architectural Woodwork						
215		Proscenium; assumed wood veneer; allow	1,385	sf	\$90.00	\$124,650		
216		Wood panel at Auditorium	760	sf	\$85.00	\$64,600		
217		Admin desk	16	lf	\$900.00	\$14,400		
218		Security solid surface counter	16	lf	\$350.00	\$5,600		
219		Copy, Records p lam base cabinets w/counter	31	lf	\$600.00	\$18,600		
220		Nurse; p lam base cabinets w/counter	9	lf	\$700.00	\$6,300		
221		Green Room/Make-up casework/countertop w/drawer cabinet below	30	lf	\$600.00	\$18,000		
222		Teacher's Lunchroom; plam upper and base cabinets w/countertop	15	lf	\$695.00	\$10,078		
223		Offices	17	room	\$4,500.00	\$76,500		
224		Mailboxes at Teacher's Mailroom	1	ls	\$5,000.00	\$5,000		
225		Restroom, vanity counter at Locker Rooms	76	lf	\$390.00	\$29,640		
226		Custodian Workshop; shelving	20	lf	\$175.00	\$3,500		
227		Storage shelving; allow	1	ls	\$46,875.00	\$46,875		
228		Misc millwork, other	221,400	gsf	\$1.00	\$221,400		
229								
230		Adjustment for reduced GSF	0%	adj	645,143	\$0		
231								
232		Sub Total : Architectural Woodwork				\$645,143		
233								
234		Subtotal for - Wood, Plastics, and Composites					\$1,459,977	



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DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
235								
236	07	Thermal & Moisture Protection						
237		Waterproofing, Dampproofing						
238		Air/Vapor Barriers						
239		Caulking & Sealants						
240		Dampproofing to foundation walls	14,792	sf	\$6.00	\$88,752		
241		Waterproofing to elevator pit	1	ls	\$8,500.00	\$8,500		
242		Air/vapor barrier to exterior wall	92,630	sf	\$8.50	\$787,356		
243		Caulking & sealants; exterior	221,400	gsf	\$2.75	\$608,850		
244		Caulking & sealants; interior	221,400	gsf	\$1.60	\$354,240		
245		Rod & sealants at exterior CW/SF/windows/doors opening	12,556	lf	\$10.00	\$125,560		
246								
247		Adjustment for reduced GSF	-5%	adj	1,973,258	(\$98,663)		
248								
249		Sub Total : Waterproofing, Dampproofing				\$1,874,595		
250								
251		Insulation						
252		Rigid insulation to foundation walls	23,736	sf	\$3.50	\$83,076		
253		3" rigid insulation to CMU exterior wall	43,223	sf	\$4.50	\$194,504		per narrative
254		2" Polyisocyanurate rigid insulation at fiber cement panels and spandrel panels	49,407	sf	\$3.75	\$185,277		
255								
256		Adjustment for reduced GSF	-10%	adj	462,856	(\$46,286)		
257								
258		Sub Total : Insulation				\$416,571		
259								
260		Wall Panels						
261		Fiber cement rainscreen panel; exterior wall	35,260	sf	\$95.00	\$3,349,710		
262		PV Spandrel panel/ between windows; exterior wall	14,147	sf	\$90.00	\$1,273,230		
263		Science Conservatory Bridge soffit incl framing	755	sf	\$115.00	\$86,825		
264		Exterior imitation wood soffits entry canopies and covered walkway at Gym entrance	3,665	sf	\$115.00	\$421,475		
265								
266		Adjustment for reduced GSF	-10%	adj	5,131,240	(\$513,124)		
267								
268		Sub Total : Wall Panels				\$4,618,116		
269								
270		Roofing and Flashing						
271		Roof Accessories						
272		TPO roofing membrane on 1/2" protection board on 6" rigid insulation, av barrier, 1/2" plywood (including flashing and roofing accessories)	167,621	sf	\$40.00	\$6,704,840		EPDM Roofing (per drawings)
273		Science Conservatory Bridge glass roof	897	sf		see Div 08		
274								
275		Adjustment for reduced GSF	-5%	adj	6,704,840	(\$335,242)		
276								
277		Sub Total : Roofing and Flashing				\$6,369,598		
278								
279		Firestopping, Fireproofing						
280		Fireproofing	221,400	gsf	\$1.50	\$332,100		

DIRECT TRADE COST DETAILS						221,400 gsf		
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
281		Firestopping, throughout building	221,400	gsf	\$0.95	\$210,330		
282								
283		Adjustment for reduced GSF	0%	adj	542,430	\$0		
284								
285		<i>Sub Total : Firestopping, Fireproofing</i>				\$542,430		
286								
287		Subtotal for - Thermal & Moisture Protection					\$13,821,309	
288								
289	08	Openings						
290		<i>Doors, Frames and Hardware</i>						
291		<i>Exterior</i>						
292		HM door and frame, pair	4	pr	\$4,500.00	\$18,000		
293								
294		<i>Interior</i>						
295		<i>HM Frames</i>						
296		HM door frame, single	111	ea	\$325.00	\$36,075		
297		HM door frame w/sidelight, single	169	ea	\$500.00	\$84,500		
298		HM door frame, double	78	ea	\$552.50	\$43,095		
299		<i>HM Doors</i>						
300		HM door, single at Toilet Rooms, Custodial, building support areas, etc.	98	ea	\$450.00	\$44,100		
301		Pair of doors	18	pr	\$900.00	\$16,200		
302		<i>Wood Doors</i>						
303		Wood veneer doors, single w/vision panel at Classrooms, Offices, Conference	169	ea	\$575.00	\$97,175		
304		Pair of doors	-	pr	\$1,150.00	\$0		
305		Wood veneer doors, single at Corridors, Warming Kitchen and Stairs	2	ea	\$500.00	\$1,000		
306		Pair of doors	48	pr	\$1,000.00	\$48,000		
307		STC rated door, single at Auditorium, Gym, Band, Chorus, Music Practice Rooms	11	ea	\$950.00	\$10,450		
308		Pair of doors	12	pr	\$1,900.00	\$22,800		
309		Premium for fire rating	1	ls	\$15,000.00	\$15,000		
310								
311		<i>Access Doors and Panels</i>						
312		Access door/panel	51	ea	\$440.00	\$22,440		
313								
314		<i>OH Doors</i>						
315		<i>Exterior</i>						
316		Motorized sectional overhead door x 8' wide at Loading Dock, Mechanical and Construction	4	ea	\$5,000.00	\$20,000		
317		12' wide at Music/Theater Production, Cosmetology, Electrical, Construction Clrm	4	ea	\$8,000.00	\$32,000		
318		<i>Interior</i>						
319		Roll-down shutter 6' wide at Warming Kitchen	2	ea	\$3,600.00	\$7,200		
320		Roll-down shutter 4' wide at Dishwash drop tray	1	ea	\$1,200.00	\$1,200		
321		OH door 10' wide at Music/Theater Production and Auditorium Storage	2	ea	\$7,500.00	\$15,000		
322								
323		<i>Door Hardware</i>						
324		Door hardware	436	ea	\$950.00	\$414,200		
325		Automatic door operator at entrance doors	2	ea	\$2,500.00	\$5,000		
326		Card reader at Security and Admin area	3	ea	\$1,500.00	\$4,500		



Warwick Public Schools
Toll Gate High School
Schematic Design Estimate

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DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
327								
328		Adjustment for reduced GSF	-8%	adj	957,935	(\$71,845)		
329								
330		Sub Total : Doors, Frames and Hardware				886,090		
331								
332		Curtain Wall, Storefronts and Windows						
333		Exterior						
334		Curtainwall/window assembly w/1/3 vertical top hung sash & 2/3 fixed glazing, 4' wide	5,630	sf	\$225.00	\$1,266,750		triple glazed
335		Curtain wall assemblies at Courtyards/Outdoor Learning areas with vertical mullion caps and horizontal SSG	5,344	sf	\$225.00	\$1,202,400		
336		Curtain wall at Auditorium, 2' wide	1,036	sf	\$225.00	\$233,100		
337		Storefront system	6,018	sf	\$200.00	\$1,203,600		
338		Thermally broken aluminum framed 1st Floor windows with 1/3 vertical top hung sash and 2/3 fixed glazing	4,118	sf	\$190.00	\$782,420		
339		Clerestory windows at Band and Chorus; assumed 2' h	230	sf	\$190.00	\$43,700		
340		Premium for security glass ; allow	5,537	sf	\$35.00	\$193,778		
341								
342		Exterior aluminum glazed doors, single	8	ea	\$6,500.00	\$52,000		
343		Pair of doors	18	pr	\$10,000.00	\$180,000		
344								
345		Science Conservatory Bridge glass roof	897	sf	\$400.00	\$358,800		
346		Science Conservatory Bridge glass walls	936	sf	\$200.00	\$187,200		
347								
348		Interior						
349		Interior curtain wall/storefront and windows	8,334	sf	\$170.00	\$1,416,780		
350		Frameless glazed partitions 7' at Learning Commons	1,326	sf	\$180.00	\$238,680		
351		Vestibule and Learning Commons aluminum glass door, pair	10	ea	\$8,000.00	\$80,000		
352		Transaction window at Concessions	2	ea	\$5,100.00	\$10,200		
353		Transaction window at Ticketing/Cloakroom	1	ea	\$4,000.00	\$4,000		
354		Transaction window at Reception/Admin and Security	2	ea	\$4,000.00	\$8,000		
355								
356		Glazing						
357		Glazing in sidelight, transom frames and door vision panels	3,803	sf	\$85.00	\$323,213		
358		Frameless Mirror						
359		Mirror at Dance/Aerobics; assumed full height	234	sf	\$65.00	\$15,210		
360		Mirror at Toilets/Locker Room	304	sf	\$65.00	\$19,760		
361		Mirror assumed at Green Room/Makeup	120	sf	\$65.00	\$7,800		
362								
363		Louvers and Vents						
364		Exterior aluminum louvers	1	ls	\$25,000.00	\$25,000		
365								
366		Adjustment for reduced GSF	-5%	adj	7,852,390	(\$392,620)		
367								
368		Sub Total : Curtain Wall, Storefronts and Windows				\$7,459,771		
369								
370		Subtotal for - Openings					\$8,345,860	
371								

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
372	09	Finishes						
373		<i>GWB Partitions:</i>						
374		Interior of exterior wall; 3/4" exterior sheathing on 6" metal studs w/mineral fiber insulation on 2 layers of 5/8" GWB	61,127	sf	\$19.40	\$1,185,866		
375		GWB layer on furring channel behind spandrel panel	14,147	sf	\$6.25	\$88,419		
376		<i>Interior partitions</i>						
377		4" LGMF w/2 layers of 5/8" GWB both sides, 4" batt insulation	4,631	sf	\$19.25	\$89,139		
378		6" LGMF w/2 layers of 5/8" GWB both sides, 4" batt insulation	45,248	sf	\$21.25	\$961,520		
379		4" LGMF, 5/8" GWB, batt insulation; plumbing partitions	13,194	sf	\$13.75	\$181,418		
380		Shaft wall, fire rated	2,269	sf	\$22.25	\$50,485		
381								
382		Adjustment for reduced GSF	-10%	adj	2,556,846	(\$255,685)		
383								
384		<i>Sub Total : GWB Partitions:</i>				2,301,162		
385								
386		<i>Ceiling Finishes</i>						
387		GWB ceiling and soffit at Lobby, vestibule and corridors	1,934	sf	\$12.00	\$23,208		
388		GWB ceiling moisture resistant at Toilet rooms	9,461	sf	\$12.50	\$118,263		
389		Stairways ceiling; combination acoustical tile and GWB	7,347	sf	\$11.00	\$80,817		
390		ACT 2'x4' acoustical ceiling tiles; typical at Classrooms and Offices	132,086	sf	\$9.00	\$1,188,774		
391		ACT ceiling, washable at Kitchen	2,604	sf	\$9.75	\$25,389		
392		Exposed structure with acoustic spray application at Learning Commons, Dining Commons, Band, Chorus, Dance, Fitness, north wing classrooms,	20,822	sf	\$6.50	\$135,343		
393		Acoustic ceiling cloud panels at exposed structure with acoustic spray areas	5,206	sf	\$20.00	\$104,110		assumed 25% of ceiling area
394		Imitation wood acoustic panels to the underside of 2nd floor walkways	5,279	sf	\$55.00	\$290,345		
395		<i>Painting</i>						
396		Paint GWB ceiling	15,069	sf	\$1.15	\$17,329		
397		Paint exposed structure (with acoustic decking) at Gymnasium	22,367	sf	\$2.15	\$48,089		
398		Exposed structure at Storage, Janitor and Mechanical	8,430	sf	\$1.50	\$12,645		
399								
400		Adjustment for reduced GSF	-10%	adj	2,044,311	(\$204,431)		
401								
402		<i>Sub Total : Ceiling Finishes</i>				\$1,839,880		
403								
404		<i>Floor Finishes</i>						
405		<i>Tiling</i>						
406		Ceramic tile Flooring at Kitchen	2,604	sf	\$28.00	\$72,912		Quarry tile per dwgs
407		Ceramic, base	237	lf	\$24.00	\$5,688		
408		<i>Resilient Flooring</i>						
409		Vinyl tile flooring; Classrooms, Corridors, Dining Commons, Learning Commons, etc.	142,846	sf	\$7.50	\$1,071,345		Bio based sheeting per dwgs
410		Vinyl tile flooring at Toilets	9,461	sf	\$7.50	\$70,958		
411		Bio based sheeting; Stair landing, tread and riser	7,347	sf	\$16.00	\$117,552		
412		Coved base	28,370	lf	\$3.50	\$99,295		
413		Vented rubber base at Gym	1,577	lf	\$6.50	\$10,251		
414		<i>Wood Flooring</i>						
415		Athletic wood floor at Gymnasium & running track	20,829	sf	\$20.00	\$416,580		
416		Stage; assumed wood flooring	2,648	sf	\$20.00	\$52,960		

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
417		<i>Carpet</i>						
418		Carpet sheet flooring; Auditorium	4,961	sf	\$7.00	\$34,727		
419		Carpet tile flooring; Offices	4,863	sf	\$6.50	\$31,610		
420		<i>Painting</i>						
421		Sealed concrete flooring	9,264	sf	\$2.75	\$25,476		
422		Sealed concrete flooring under Auditorium seating	4,630	sf	\$2.75	\$12,733		
423								
424		Floor prep at resilient flooring and carpet flooring	149,384	sf	\$2.25	\$336,114		
425		Moisture mitigation	199,992	sf		NIC		
426								
427		Adjustment for reduced GSF	-10%	adj	2,358,199	(\$235,820)		
428								
429		<i>Sub Total : Floor Finishes</i>				\$2,122,379		
430								
431		<i>Wall Finishes:</i>						
432		Ceramic wall tile at Kitchen 9' h	2,133	sf	\$30.00	\$63,990		
433		Ceramic wall tile at Toilet/Lockers 7' h	5,040	sf	\$30.00	\$151,200		
434		Ceramic tile wainscot at other toilets	5,744	sf	\$30.00	\$172,320		
435								
436		Acoustical wall panels in Music, Band, Chorus, Gym and Auditorium; assumed qty	5,000	sf	\$25.00	\$125,000		
437								
438		<i>Painting</i>						
439		Paint CMU wall	357,201	sf	\$1.40	\$500,081		
440		Paint GWB wall	149,895	sf	\$1.00	\$149,895		
441		Paint concrete columns at Lobby, Dining and Learning Commons, double height	30	ea	\$1,500.00	\$45,000		
442		Paint HM frame	436	ea	\$95.00	\$41,420		
443		Paint HM door	134	ea	\$115.00	\$15,410		
444								
445		Adjustment for reduced GSF	-10%	adj	251,725	(\$25,173)		
446								
447		<i>Sub Total : Wall Finishes:</i>				\$1,239,144		
448								
449		Subtotal for - Finishes					\$7,502,565	
450								
451	10	Specialties						
452		<i>Visual Display Units</i>						
453		White board/marker board and tack board in all Classrooms; (2) MB+(2)TB/ clsm	60	room	\$3,200.00	\$192,000		
454		White board/marker board assumed at Small Group Seminar, Conference Rooms, Teacher Planning	40	room	\$700.00	\$28,000		
455		Recessed display cases in public spaces	1	ls	\$20,000.00	\$20,000		
456								
457		<i>Signage</i>						
458		Interior signage; wayfinding, ADA signage, door signage, etc.	221,400	gsf	\$0.95	\$210,330		
459		Exterior signage; allow	1	ls	\$35,000.00	\$35,000		
460								
461		<i>Operable Partitions</i>						
462		Acoustical folding partitions at Small Group Seminar	191	lf	\$1,050.00	\$200,550		

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
463								
464		<i>Wall Protection</i>						
465		Wall protection/corner guards	1	ls	\$55,000.00	\$55,000		
466								
467		<i>Toilet Compartments</i>						
468		Solid plastic (HDPE) toilet partitions, standard	60	ea	\$1,450.00	\$87,000		
469		ADA	24	ea	\$1,750.00	\$42,000		
470		Urinal screen	10	ea	\$650.00	\$6,500		
471								
472		<i>Toilet Accessories</i>						
473		Toilet accessories at Locker/Toilets	6	room	\$6,500.00	\$39,000		
474		Toilet accessories at Student Toilets	12	room	\$3,500.00	\$42,000		
475		Toilet accessories at other Toilets	22	room	\$1,250.00	\$27,500		
476		Janitor's accessories	7	room	\$375.00	\$2,625		
477		Shower curtain and rod	5	ea	\$275.00	\$1,375		
478		Cubicle curtains in Nurse's suite	1	ea	\$950.00	\$950		
479		Bench	4	ea	\$700.00	\$2,800		
480		AED cabinets allow 1ea/floor	2	ea	\$550.00	\$1,100		
481								
482		<i>Fire Protection</i>						
483		Fire Extinguishers and Cabinets	49	ea	\$450.00	\$22,050		
484								
485		<i>Lockers</i>						
486		Team and Athletics metal lockers incl Referee Locker, Staff Locker	174	ea	\$550.00	\$95,700		
487		Student metal lockers	1,170	ea	\$375.00	\$438,750		
488		Staff lockers	8	ea	\$300.00	\$2,400		
489								
490		Adjustment for reduced GSF	-4%	adj	1,552,630	(\$62,105)		(eliminate Team Locker Room)
491								
492		<i>Sub Total : Specialties</i>				1,490,525		
493								
494		Subtotal for - Specialties					\$1,490,525	
495								
496	11	Equipment						
497		<i>Projection Screens</i>						
498		Projection screens assumed at Media/Library, Learning Commons, Multipurpose	3	ea	\$7,500.00	\$22,500		
499								
500		<i>Residential Appliances</i>						
501		Washer/Dryer, Refrigerator, Microwave, etc.	1	ls	\$10,000.00	\$10,000		
502								
503		<i>Food Service Equipment</i>						
504		Warming kitchen equipment and washing facilities	1	allow	\$450,000.00	\$450,000		
505								
506		<i>Lab Equipment</i>						
507		Kiln	1	ea	\$12,000.00	\$12,000		
508								
509		<i>Gymnasium</i>						

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
510		Protective wall padding	630	sf	\$18.00	\$11,340		
511		Motorized center drop down curtain	1	ls	\$20,000.00	\$20,000		
512		Telescopic gymnasium seating	950	ea	\$125.00	\$118,750		
513		Wall mounted digital scoreboard	1	ea	\$25,000.00	\$25,000		
514		Retractable ceiling mounted full, and half-court basketball hoops	6	ea	\$7,500.00	\$45,000		
515		Volleyball stanchion equipment	1	set	\$6,500.00	\$6,500		
516		Rock climbing wall in fitness area; allow	1	ls	\$170,000.00	\$170,000		
517								
518		<i>Theater and Stage Equipment</i>						
519		Stage curtains	1	ls	\$75,000.00	\$75,000		
520								
521		A/V Equipment; allowance	1	allow	\$1,250,000.00	\$1,250,000		
522								
523		<i>Library Equipment</i>						
524		Learning Common; bookshelves w/ seat padding	60	lf	\$550.00	\$33,000		
525		Learning Common; bookcase	84	lf	\$750.00	\$63,000		
526		Learning Common; built-in bookcase	57	lf	\$450.00	\$25,650		
527		Quiet Room; bookcase type shelving	52	lf	\$750.00	\$39,000		
528								
529		Adjustment for reduced GSF	0%	adj	2,376,740	\$0		
530								
531		<i>Sub Total : Equipment</i>				2,376,740		
532								
533		Subtotal for - Equipment					\$2,376,740	
534								
535	12	Furnishings						
536		Casework (P lam casework and solid surface counters at Classrooms, epoxy counter at Science, Art, Prep rooms)	221,400	sf	\$5.42	\$1,200,000		
537		Art; casework and epoxy counters	4	room		incl. above		
538		Art Workroom; casework and epoxy counters	2	room		incl. above		
539		Chorus, Band; upper and base cabinets w/counter, instrument storage cabinets	2	room		incl. above		
540		Classroom/Core Academic; low bookcase type shelving along with general storage	20	room		incl. above		
541		English Language Learners	3	room		incl. above		
542		ses/Behavior	1	room		incl. above		
543		Music/Multipurpose Classroom	1	room		incl. above		
544		Project Room	4	room		incl. above		
545		Science; casework and epoxy counters	8	room		incl. above		
546		Science prep	4	room		incl. above		
547		STEM Classroom	2	room		incl. above		
548		Conference Rooms	15	room		incl. above		
549		CTC Rooms	11	rooms		incl. above		
550		Resource Room	6	room		incl. above		
551		Small Group Seminar	13	room		incl. above		
552		Teachers Planning	6	room		incl. above		
553		Learning Common; desk	20	lf	\$750.00	\$15,000		
554								
555		<i>Window Treatments</i>						

DIRECT TRADE COST DETAILS						221,400 gsf		
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
556		Manual operated solar roller shades for classrooms, and offices	15,996	sf	\$7.50	\$119,970		
557		Motorized solar shades for auditorium	1,036	sf	\$12.50	\$12,950		
558								
559		<i>Walk-off Mat</i>						
560		Walk-off mat	877	sf	\$35.00	\$30,695		
561								
562		<i>Seating</i>						
563		Padded auditorium seating	719	ea	\$275.00	\$197,725		
564								
565		Adjustment for reduced GSF	-5%	adj	1,576,340	(\$78,817)		
566								
567		<i>Sub Total : Furnishings</i>				1,497,523		
568								
569		Subtotal for - Furnishings					\$1,497,523	
570								
571	13	Special Construction						
572		<i>Special Construction</i>						
573		Conservation and Recreation Field	163,585	sf				2,199,194
574		Rough/fine grading	163,585	sf	1.20	196,302		
575		Cut and fill	6,059	cy	16.00	96,939		
576		8" Stone base	4,465	cy	50.00	223,263		
577		Sand base	1,066	cy	56.00	59,715		
578		Underdrain	163,585	sf	4.50	736,133		
579		Irrigation outfield	163,585	sf	2.70	441,680		
580		Sod lawn	163,585	sf	2.50	408,963		
581		Equipment	1	allow	36,200.00	36,200		
582								
583		Stadium (Synthetic Turf Field , Track)	138,068	sf				\$3,772,808
584		New Track surface, incl base and prep work	45,828	sf				
585		Rough/fine grading	45,828	sf	1.20	54,994		
586		Cut and disposal	1,969	cy	18.00	35,442		
587		12" Stone base	1,867	cy	50.00	93,350		
588		'New track surface, incl marking	45,828	sf	20.50	939,474		
589		Synthetic turf field	70,692	sf				
590		Rough/fine grading	70,692	sf	1.20	84,830		
591		Cut and disposal	3,273	cy	16.00	52,368		
592		8" Stone base	1,920	cy	50.00	96,000		
593		Sand base	480	cy	56.00	26,880		
594		Dual fiber artificial turf and marking	70,692	sf	14.50	1,025,034		
595		Inlaid synthetic turf field logo	1	ea		by owner		
596		Permanent football goal posts	2	ea	2,850.00	5,700		
597		Portable adjustable soccer goals	2	ea	2,850.00	5,700		
598		Electrical scoreboard and foundation	1	ls	50,000.00	50,000		
599		Permanent Aluminum bleachers for football stadium: 1,500	1	ls	1,125,000.00	1,125,000		
600		High Jump	3,942	sf				
601		Rough/fine grading	3,942	sf	1.20	4,730		
602		Cut and disposal	219	cy	18.00	3,942		



Warwick Public Schools
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DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
603		Sand base	241	cy	60.00	14,460		
604		Discus	14,908	sf				
605		Rough/fine grading	14,908	sf	1.20	17,890		
606		Cut and disposal	828	cy	18.00	14,904		
607		Stone dust landing	911	cy	50.00	45,550		
608		Discus enclosure	1	ls	4,400.00	4,400		
609		Long/triple jump with Pole vault	2,698	sf				
610		Rough/fine grading	2,698	sf	1.20	3,238		
611		Cut and disposal	150	cy	18.00	2,700		
612		Sand base	51	cy	56.00	2,875		
613		12" Stone base;	39	cy	52.00	2,028		
614		Rubber surface	966	sf	20.00	19,320		
615		Pole vault; allow	1	ea	42,000.00	42,000		
616								
617		Softball Field	50,940	sf				\$1,321,976
618		Rough/fine grading	50,940	sf	1.20	61,128		
619		Cut and fill	38,205	cy	18.00	687,690		
620		8" Stone base	1,390	cy	50.00	69,524		
621		Sand base	332	cy	56.00	18,595		
622		Underdrain	50,940	sf	2.85	145,179		
623		Infield surfacing; Engineered infield mix, 4" Depth	3,542	sf	3.40	12,043		
624		Irrigation outfield	47,398	sf	2.50	118,495		
625		Sod lawn	47,398	sf	2.50	118,495		
626		Batting cage; allow	1	ea	2,800.00	2,800		
627		Removable foul poles; allow	2	ea	5,135.00	10,270		
628		Base plate	4	ea	380.00	1,520		
629		Baseball mound	1	ea	3,800.00	3,800		
630		Pitching rubber	1	ea	550.00	550		
631		Chain fence 6' HT.	731	lf	48.00	35,088		
632		Chain fence gate; double	1	ea	1,500.00	1,500		
633		Chain fence gate; single	2	ea	750.00	1,500		
634		Backstop 20' HT.	120	lf	240.00	28,800		
635		Ball players bench	2	ea	2,500.00	5,000		
636		Permanent Aluminum bleachers for Softball: 48	1	ls	18,240.00	18,240		
637								
638		Baseball Field	134,765	sf				\$3,394,761
639		Rough/fine grading	134,765	sf	1.20	161,718		
640		Cut and fill	101,074	cy	18.00	1,819,328		
641		8" Stone base	3,679	cy	50.00	183,929		
642		Sand base	878	cy	56.00	49,194		
643		Underdrain	134,765	sf	2.85	384,080		
644		Infield surfacing; Engineered infield mix, 4" Depth	8,018	sf	3.40	27,261		
645		Irrigation outfield	126,747	sf	2.50	316,868		
646		Sod lawn	126,747	sf	2.50	316,868		
647		Batting cage; allow	1	ea	2,800.00	2,800		
648		Removable foul poles; allow	2	ea	5,135.00	10,270		
649		Base plate	4	ea	380.00	1,520		



Warwick Public Schools
Toll Gate High School
Schematic Design Estimate

18-Aug-23

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
650		Baseball mound	1	ea	3,800.00	3,800		
651		Pitching rubber	1	ea	550.00	550		
652		Chain fence 6' HT.	1,112	lf	48.00	53,376		
653		Chain fence gate; double	1	ea	1,500.00	1,500		
654		Chain fence gate; single	2	ea	750.00	1,500		
655		Backstop 20' HT.	230	lf	240.00	55,200		
656		Ball players bench	2	ea	2,500.00	5,000		
657		Permanent Aluminum bleachers for baseball: 248	1	ls	94,240.00	94,240		
658								
659		Tennis Courts (6)	35,762	sf				\$440,412
660		Rough/fine grading	35,762	sf	1.50	53,643		
661		Cut and fill	1,987	cy	16.00	31,788		
662		12" Stone base	1,457	cy	50.00	72,849		
663		Tennis courts court	35,762	sf	3.60	128,743		
664		Tennis courts marking	35,762	sf	2.50	89,405		
665		Tennis court nets	6	ea	2,800.00	16,800		
666		Chain link fence 10' Ht.	748	lf	58.00	43,384		
667		Vehicular gate 10' Ht	4	ea	950.00	3,800		
668								
669		Basketball Court	9,458	sf				\$118,192
670		Rough/fine grading	9,458	sf	1.50	14,187		
671		Cut and fill	525	cy	16.00	8,407		
672		12" Stone base	385	cy	50.00	19,266		
673		Asphalt basketball court	9,458	sf	3.50	33,103		
674		Basketball courts marking	9,458	sf	2.90	27,428		
675		Basketball hoops	4	ea	3,950.00	15,800		
676		Chain link fence 10' Ht.	289	lf	58.00	16,762		
677		Vehicular gate 10' Ht	2	ea	950.00	1,900		
678								
679		Shotput	2,466	sf				
680		Rough/fine grading	2,466	sf	1.50	3,699		
681		Cut and fill	116	cy	16.00	Included		
682		Stone dust landing	96	cy	50.00	4,809		
683		Concrete throwing pad with toe board	105	sf	12.00	1,260		
684								
685		Bldg cmu ticket booth	65	sf	260.00	16,900		
686								
687		Softball Field press box 10' x 12'	1	ls	25,000.00	Alternate		
688		Baseball Field press box 10' x 12	1	ls	25,000.00	Alternate		
689		Press box	1	ls	115,000.00	115,000		
690								
691		Concession stand 42'x9'-3" and toilet room (Sports pavilion)	378	sf	793.65	300,000		
692								
693		Adjustment for VE	-20%	adj	11,820,154	(\$2,364,031)		
694								
695		Sub Total : Special Construction				9,456,123		
696								

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
697		Subtotal for - Special Construction					\$9,456,123	
698								
699	14	Conveying Equipment						
700		Elevators						
701		Holeless hydraulic passenger elevator; 2-stop	1	ea	175,000.00	\$175,000		
702								
703		Adjustment for reduced GSF	0%	adj	175,000	\$0		
704								
705		Sub Total : Elevators				175,000		
706								
707		Subtotal for - Conveying Equipment					\$175,000	
708								
709	21	Fire Suppression						
710		Equipment				\$0		
711		Fire pump with controller - 750 gpm	2	ea	\$104,000.00	\$208,000		
712		Jockey pump with controller	1	ea		included		
713						\$0		
714		Wet sprinkler system	221,400	gsf	\$6.50	\$1,439,100		
715						\$0		
716		Other	221,400	gsf	\$1.40	\$309,960		
717		Temporary standpipe and loop	1	ls		included		
718		Remove temporary standpipe and loop	1	ls		included		
719		System ID, labels and color coding	1	ls		included		
720		Shop co-ordination drawings	1	ls		included		
721		Painting standpipe and sprinkler pipe	1	ls		included		
722		Design calculations	1	ls		included		
723		Seismic restraints	1	ls		included		
724		Core drill, cutting, patching, fire stopping	1	ls		included		
725		Clean, flush and test	1	ls		included		
726		Commissioning	1	ls		included		
727		Equipment handling and material distribution	1	ls		included		
728		Equipment and pipe supports	1	ls		included		
729		Coordination with other trades	1	ls		included		
730								
731		Adjustment for reduced GSF	0%	adj	1,957,060	\$0		
732								
733		Sub Total : Fire Suppression				1,957,060		
734								
735		Subtotal for - Fire Suppression					\$1,957,060	
736								
737	22	Plumbing						
738		Equipment						
739		Triplex domestic water booster pump system - 110 gpm, 5 hp (each)	1	syst	\$72,000.00	\$72,000		
740		Duplex gas fired, high efficiency, direct fired, storage type, condensing water heaters - 130 gal, 500 cfh gas input (each)	1	set	\$46,800.00	\$46,800		
741		Electric storage type water heater - 100 gal, 12 kw input	1	ea	\$20,400.00	\$20,400		
742		Recirculating pumps	1	ls	\$10,000.00	\$10,000		

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
743		Grease interceptors	1	ls	\$50,000.00	\$50,000		
744		Boiler condensate neutralization tubes - <i>assume</i>	6	ea	\$940.00	\$5,640		
745		Domestic water filtration system - <i>assume</i>	1	syst	\$15,400.00	\$15,400		
746		Equipment not shown - <i>assume</i>	1	ls	\$40,000.00	\$40,000		
747						\$0		
748		Piping system	221,400	gsf	\$26.75	\$5,922,450		
749		Domestic water	1	ls		included		
750		Sanitary waste and vent / Grease waste system	1	ls		included		
751		Storm water	1	ls		included		
752		Natural gas	1	ls		included		
753		Valves and specialties (incl. hook-up equipment)	1	ls		included		
754						\$0		
755		Plumbing fixtures (incl. fixture rough-in's)	221,400	gsf	\$5.80	\$1,284,120		
756						\$0		
757		Other	221,400	gsf	\$2.40	\$531,360		
758		Make-up water requirements (Mechanical room)	1	ls		included		
759		Trap primer valves with assoc. piping	1	ls		included		
760		Access door	1	ls		included		
761		Vibration isolation	1	ls		included		
762		Penetrations and sleeves	1	ls		included		
763		Core drill, patching, fire stopping	1	ls		included		
764		Clean, flush and test	1	ls		included		
765		Disinfection	1	ls		included		
766		System validate / Certification	1	ls		included		
767		Equipment handling and material distribution	1	ls		included		
768		System ID / Valve tags	1	ls		included		
769		Shop co-ordination drawings	1	ls		included		
770		Seismic restraints and pipe seismic joints	1	ls		included		
771		Equipment and pipe supports	1	ls		included		
772		Coordination with other trades	1	ls		included		
773								
774		Adjustment for reduced GSF	0%	adj	7,998,170	\$0		
775								
776		Sub Total : Plumbing				7,998,170		
777								
778		Subtotal for - Plumbing					\$7,998,170	
779								
780	23	HVAC						
781		Equipment						
782		High efficiency, gas fired, condensing boiler - 3000 mbh	3	ea	\$102,000.00	\$306,000		
783		Hot water circulating pump - 390 gpm	4	ea	\$11,200.00	\$44,800		
784		Air cooled centrifugal chiller - 300 tons	2	ea	\$495,000.00	\$990,000		
785		Chilled water circulating pump - 1440 gpm	2	ea	\$28,400.00	\$56,800		
786		Energy recovery rooftop unit (Classroom) - 20000 cfm	3	ea	\$346,000.00	\$1,038,000		
787		Energy recovery rooftop unit (Administration) - 1500 cfm	1	ea	\$33,000.00	\$33,000		
788		Dedicated rooftop air handling unit (Gymnasium) - 15000 cfm	2	ea	\$264,000.00	\$528,000		
789		Energy recovery rooftop unit (Train Area) - 15000 cfm	1	ea	\$232,000.00	\$232,000		

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
790		Heating and ventilating unit (Locker room) - 4000 cfm	2	ea	\$56,600.00	\$113,200		
791		Rooftop air handling unit (Auditorium) - 15000 cfm	2	ea	\$264,000.00	\$528,000		
792		Energy recovery rooftop unit (Music Area) - 8000 cfm	1	ea	\$142,600.00	\$142,600		
793		Energy recovery rooftop unit (Robotic Lab) - 4000 cfm	1	ea	\$72,600.00	\$72,600		
794		Heating and ventilating unit (Aviation) - 4000 cfm	1	ea	\$56,600.00	\$56,600		
795		Gas fired make-up air handling unit w/ DX cooling (Kitchen) - 6000 cfm	1	ea	\$93,600.00	\$93,600		
796		Dedicated rooftop air handling unit (Dinning/Learning Commons) - 15000 cfm	1	ea	\$264,000.00	\$264,000		
797		Induction units	1	ls	\$100,000.00	\$100,000		
798		Exhaust fans	1	ls	\$50,000.00	\$50,000		
799		Equipment not shown - <i>assume</i>	1	ls	\$120,000.00	\$120,000		
800		Inertia base @ Pumps	6	ea	\$7,050.00	\$42,300		
801		VFD's @ Equipment - <i>furnish only</i>	1	ls	\$168,000.00	\$168,000		
802								
803		Emergency generator HVAC requirements - duplex pump, fuel oil tank, filtration system, leak detection system, piping, etc.	1	ls	\$110,000.00	with Site		
804								
805		Piping system (incl. pipe insulation, valves and specialties, hook-up equipment)	221,400	gsf	\$10.50	\$2,324,700		
806								
807		Air side system	221,400	gsf	\$32.00	\$7,084,800		
808		Galvanized steel duct	1	ls		included		
809		Black iron 12 ga ductwork @ Kitchen exhaust hood	1	ls		included		
810		Duct insulation / Acoustical lining	1	ls		included		
811		Air devices	1	ls		included		
812		Dampers	1	ls		included		
813		Kitchen hood with fire suppression system	1	ls		included		
814		Duct smoke detector housing - <i>install only</i>	1	ls		included		
815		Duct mounted silencer	1	ls		included		
816		Boiler flue with insulation	1	ls		included		
817		Combustion air intake @ Boilers	1	ls		included		
818		HWH flue with insulation	1	ls		included		
819		Combustion air intake @ HWH	1	ls		included		
820		Clean out door	1	ls		included		
821		Flexible connections @ Equipment	1	ls		included		
822						\$0		
823		System controls	221,400	gsf	\$14.00	\$3,099,600		
824						\$0		
825		Other	221,400	gsf	\$3.50	\$774,900		
826		Access doors	1	ls		included		
827		Vibration isolation / Seismic	1	ls		included		
828		Temporary HVAC	1	ls		included		
829		Penetrations and sleeves	1	ls		included		
830		Core drill, cutting, patching, fire stopping	1	ls		included		
831		Test and balance	1	ls		included		
832		Clean, flush and test (piping system)	1	ls		included		
833		System start-up / Commissioning	1	ls		included		
834		Rigging	1	ls		included		
835		Equipment handling and material distribution	1	ls		included		

DIRECT TRADE COST DETAILS						221,400 gsf		
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
836		System ID / Valve tags	1	ls		included		
837		Shop co-ordination drawings	1	ls		included		
838		O&M manuals	1	ls		included		
839		Equipment, duct and pipe supports	1	ls		included		
840		Coordination with other trades	1	ls		included		
841								
842		Adjustment for reduced GSF	0%	adj	18,263,500	\$0		
843								
844		Sub Total : HVAC				18,263,500		
845								
846		Subtotal for - HVAC					\$18,263,500	
847								
848								
849	26	Electrical						
850		Electrical						
851		Power Distribution						
852		3000 Amp main switchboard	2	ea	285,000.00	570,000		
853		600 Amp distribution board	3	ea	22,560.00	67,680		
854		400 Amp distribution board, 480V	8	ea	10,790.00	86,320		
855		400 Amp distribution board, 208V	4	ea	16,387.00	65,548		
856		300 Amp panel, 208V	12	ea	7,700.00	92,400		
857		200 Amp panel, 480V	10	ea	5,869.00	58,690		
858		200 Amp panel, 208V	8	ea	6,068.00	48,544		
859		175 Amp panel, 208V	6	ea	5,500.00	33,000		
860		100 Amp panel, 480V	2	ea	3,960.00	7,920		
861		100 Amp panel, 208V	6	ea	3,450.00	20,700		
862		60 Amp panel, 208V	3	ea	2,415.00	7,245		
863		30 Amp panel, 208V	3	ea	1,400.00	4,200		
864		112.5 KVA transformer	3	ea	14,734.00	44,202		
865		75 KVA transformer	21	ea	11,634.00	244,314		
866		50 KVA transformer	10	ea	8,362.00	83,620		
867		45 KVA transformer	1	ea	8,362.00	8,362		
868		9 KVA transformer	1	ea	1,500.00	1,500		
869		400 Amp switch	1	ea	4,926.00	4,926		
870		100 Amp switch	2	ea	1,522.00	3,044		
871		Zero sequence harmonic filters	1	ls	40,000.00	40,000		
872		Surge protection devices	1	ls	2,500.00	2,500		
873		Panels mounting assembly	65	ea	165.00	10,725		
874		Transformer support	36	ea	535.00	19,260		
875		Housekeeping concrete pad	2	ea		w/GC		
876								
877		Feeders - Normal and Emergency Power	221,400	sf	5.00	1,107,000		
878								
879		Photovoltaic System						
880		4" RGS for future system	120	lf	99.83	11,980		
881								
882		Lighting						
883		Furnish only	221,400	sf	7.50	1,660,500		

DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
884		Installation only						
885		Lighting fixture type "A8" (8')	532	ea	300.00	159,600		
886		Lighting fixture type "A8" (6')	8	ea	275.00	2,200		
887		Lighting fixture type "B1"	230	ea	180.00	41,400		
888		Lighting fixture type "C1"	550	ea	180.00	99,000		
889		Lighting fixture type "D1"	20	ea	140.00	2,800		
890		Lighting fixture type "E1"	66	ea	216.00	14,256		
891		Lighting fixture type "F1"	108	ea	140.00	15,120		
892		Lighting fixture type "H1", "H2"	455	ea	216.00	98,280		
893		Lighting fixture type "G1"	31	ea	375.00	11,625		
894		Exit sign	85	ea	325.00	27,625		
895		3/4" EMT	26,170	lf	11.59	303,310		
896		# 12 wire	78,510	lf	1.14	89,501		
897								
898		Lighting fixtures, pole mounted				w/Site		
899								
900		Lighting Control						
901		Lighting control panel	4	ea	3,000.00	12,000		
902		Single pole light switch	9	ea	150.00	1,350		
903		LV digital switch	121	ea	155.00	18,755		
904		LV digital dimming switch	394	ea	162.00	63,828		
905		Occupancy sensor, wall mounted	51	ea	274.20	13,984		
906		Occupancy sensor, ceiling mounted	513	ea	397.50	203,918		
907		Daylight sensor, ceiling mounted	75	ea	397.50	29,813		
908		3/4" EMT	11,670	lf	11.59	135,255		
909		# 12 wire	35,010	lf	1.14	39,911		
910		Cable cat.5e	6,390	lf	2.00	12,780		
911								
912		Branch Circuitry						
913		Duplex receptacle	483	ea	144.40	69,745		
914		GFI duplex receptacle	99	ea	162.60	16,097		
915		Quad receptacle	234	ea	215.10	50,333		
916		GFI quad receptacle	6	ea	248.85	1,493		
917		Special purpose receptacle	6	ea	328.75	1,973		
918		Floor power box	138	ea	760.00	104,880		
919		GFI duplex receptacle, WP	20	ea	170.00	3,400		
920		Junction box, WP	8	ea	85.00	680		
921		3/4" RGS	1,080	lf	16.03	17,312		
922		3/4" EMT	21,250	lf	11.59	246,288		
923		# 12 wire	66,990	lf	1.14	76,369		
924								
925		Power to equipment and devices F & I B.O.	1	ls	95,000.00	95,000		
926		Food service equipment				included		
927		GYM equipment				included		
928		Shop equipment				included		
929		Elevator pit assembly (GFI duplex receptacle, switch, light)				included		
930		Electronic plumbing faucets/calves				included		

Warwick Public Schools
Toll Gate High School
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DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
931		Hand dryers				included		
932		Projection screens				included		
933		Motorized shades				included		
934		Short circuit and coordination study				included		
935		Low Voltage systems				included		
936								
937		Mechanical Requirements						
938		VFD (F.B.O.)	1	ls	65,000.00	65,000		
939		Fire pump service switch	1	ea	5,000.00	5,000		
940		Jockey pump	1	ea	\$300.00	\$300		
941		Fire pump	1	ea	\$1,480.00	\$1,480		
942		Triplex domestic water booster pump system	1	syst	\$900.00	\$900		
943		Duplex condensing water heater	1	set	\$600.00	\$600		
944		Electric storage type water heater	1	ea	\$300.00	\$300		
945		Recirculating pumps	1	ls	\$1,500.00	\$1,500		
946		Condensing boiler	3	ea	\$585.00	\$1,755		
947		Hot water circulating pump	4	ea	\$300.00	\$1,200		
948		Air cooled centrifugal chiller	2	ea	\$3,000.00	\$6,000		
949		Chilled water circulating pump	2	ea	\$335.00	\$670		
950		Energy recovery rooftop unit (Classroom)	3	ea	\$1,555.00	\$4,665		
951		Energy recovery rooftop unit (Administration)	1	ea	\$585.00	\$585		
952		Dedicated rooftop air handling unit (Gymnasium)	2	ea	\$1,480.00	\$2,960		
953		Energy recovery rooftop unit (Train Area)	1	ea	\$1,480.00	\$1,480		
954		Heating and ventilating unit (Locker room)	2	ea	\$445.00	\$890		
955		Rooftop air handling unit (Auditorium)	2	ea	\$1,480.00	\$2,960		
956		Energy recovery rooftop unit (Music Area)	1	ea	\$500.00	\$500		
957		Energy recovery rooftop unit (Robotic Lab)	1	ea	\$500.00	\$500		
958		Heating and ventilating unit (Aviation)	1	ea	\$500.00	\$500		
959		Gas fired make-up air handling unit w/ DX cooling (Kitchen)	1	ea	\$585.00	\$585		
960		Dedicated rooftop air handling unit (Dinning/Learning Commons)	1	ea	\$1,500.00	\$1,500		
961		Induction units	1	ls	\$880.00	\$880		
962		Exhaust fans	1	ls	\$445.00	\$445		
963		Conduit and wire	1	ls	450,000.00	450,000		
964								
965		Tel/Data System (empty conduit)	221,400	sf	1.00	221,400		
966								
967		Security System (empty conduit)	221,400	sf	0.85	188,190		
968								
969		AV/Clock Systems (empty conduit)	221,400	sf	1.00	221,400		
970								
971		Temporary power and light	221,400	sf	2.00	442,800		
972								
973		Lightning protection/grounding system	1	ls	100,000.00	100,000		
974								
975		Other	221,400	sf	3.25	719,550		
976		Vibration isolation/seismic restraint				included		

DIRECT TRADE COST DETAILS						221,400 gsf		
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
977		Sleeves/firestopping				included		
978		Coordination w/other trades, deliveries, etc.				included		
979								
980		Adjustment for reduced GSF	0%	adj	8,830,556	\$0		
981								
982	27	Communications						
983		Two-way Voice Communication System	221,400	sf	0.50	110,700		
984		Tel/Com System	221,400	sf	4.50	996,300		
985		Master Clock System	221,400	sf	0.75	166,050		
986		AV System				FF & E		
987								
988		Electronic Safety & Security						
989		Security System (Access Control and Video Surveillance)	221,400	sf	2.75	608,850		
990								
991		Fire Alarm System						
992		Fire alarm control panel	1	ea	7,270.00	7,270		
993		Annunciator panel	1	ea	2,855.00	2,855		
994		Pull station	26	ea	357.00	9,282		
995		Strobe light	105	ea	500.00	52,500		
996		Combination speaker/strobe	225	ea	639.00	143,775		
997		Smoke detector	162	ea	380.00	61,560		
998		Remote indicator	7	ea	335.00	2,345		
999		3/4" conduit	6,450	lf	11.59	74,756		
1000		# 12 wire	20,500	lf	1.14	23,370		
1001		Testing/programming/engineering fees	1	ls	78,750.00	78,750		
1002								
1003		Mass Notification System						
1004		Mass notification operator control panel	1	ea	5,000.00	5,000		
1005		Mass notification addressable strobe light	294	ea	500.00	147,000		
1006		Mass notification addressable speaker	13	ea	400.00	5,200		
1007		3/4" conduit	9,210	lf	11.59	106,744		
1008		# 12 wire	18,420	lf	1.14	20,999		
1009		Testing	1	ls	46,050.00	46,050		
1010								
1011		Adjustment for reduced GSF	0%	adj	11,499,912	\$0		
1012								
1013		Sub Total : Electrical				11,499,912		
1014								
1015		Subtotal for - Electrical					\$11,499,912	
1016								
1017	31	Earthwork						
1018		Site Clearing						
1019		Construction fence, installation and maintenance	6,854	lf	16.00	109,664		
1020		Construction fence, installation and maintenance; Phase	650	lf	16.00	10,400		
1021		Temporary parking area; allow	20,000	sf	2.00	40,000		
1022		Temporary sidewalks allowance	1	allow	20,000.00	20,000		
1023		Contractor laydown area; allow	30,000	sf	0.20	6,000		

DIRECT TRADE COST DETAILS						221,400 gsf		
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
1024		Stabilized construction entrance	3	ea	9,000.00	27,000		
1025		Construction entrance/gates	3	pr	5,000.00	15,000		
1026		Temporary signs	1	ls	4,500.00	4,500		
1027		Clear & grubbing & stump remove	4	acres	8,000.00	32,000		
1028		Site clearing	30	acre	3,800.00	114,000		
1029		Remove and dispose trees	16	ea	350.00	5,600		
1030		Protect existing tree or remain	1	al	7,500.00	7,500		
1031		<i>Erosion and Sediment Control</i>						
1032		Erosion control barrier - silt fence	7,504	lf	12.00	90,048		
1033		Catch basin/inlet protection	1	al	12,480.00	12,480		
1034		Stormwater management	1	al	12,000.00	12,000		
1035		Haybales at stockpile topsoil	1	ls	10,000.00	10,000		
1036		Layout/As-builts/survey	1	ls	15,000.00	15,000		
1037		Police detail allowance	1	ls	25,000.00	25,000		
1038		Mobilizations	1	ls	50,000.00	50,000		
1039		Dewatering	1	ls	18,000.00	18,000		
1040		Street sweeping allowance	1	allow	20,000.00	20,000		
1041		Snow removal allowance	1	allow	12,000.00	12,000		
1042								
1043		Site Earthwork						
1044		Remove and stockpile loam for reused; Phase 1	21,823	cy	12.00	261,877		
1045		Backfill existing building footprint	2,325	cy	16.00	37,199		
1046								
1047		Building						
1048		Building cut and fill		sf		See Building		
1049		Site cut and fill						
1050		Roadway and parking lot cut	23,080	cy	16.00	369,282		
1051		Concrete pavement cut and fill	3,556	cy	16.00	56,889		
1052		Site grade cut	22,829	cy	12.00	273,953		
1053		Rock removal ; allow	182,872	cy	28.00	5,120,416		
1054		Rough and fine grading for paving and surfacing	500,981	sf	1.00	500,981		
1055		Rough and fine grading for site grade	901,848	sf	0.70	631,294		
1056		Dewatering	1	al	24,000.00	24,000		
1057								
1058		Hazardous Waste Remediation						
1059		Hazardous soils conditions remediation	1	al	50,000.00	50,000		
1060								
1061		<i>Sub Total : Earthwork</i>				7,982,082		
1062								
1063		Subtotal for - Earthwork					\$7,982,082	
1064								
1065	32	Exterior Improvements						
1066		Roadways	324,357	sf	3.55	1,151,467		
1067		Gravel base	13,215	cy	48.00	634,320		
1068		Patch existing pavement at street	1	ls	5,000.00	5,000		
1069		Parking Lots	109,302	sf	3.40	371,627		
1070		Gravel base	4,453	cy	48.00	213,744		



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1071		Parking stall painting	633	ea	45.00	28,485		
1072		Parking stall painting, ADA	15	ea	250.00	3,750		
1073		Crosswalk	2,570	sf	2.80	7,196		
1074		Pavement marking; allow	1	ls	18,000.00	18,000		
1075		Granite curbing	17,826	lf	47.50	846,735		
1076		Reset existing granite curbing	530	lf	19.00	10,070		
1077		Precast concrete curbing	3,847	lf	32.00	123,104		
1078		Pedestrian Paving						
1079		Concrete walk	12,156	sf	10.00	121,560		
1080		Asphalt concrete walk	7,776	sf	3.05	23,717		
1081		Concrete entrance pavement	12,466	sf	25.00	311,650		
1082		New concrete stair and landing	1,596	sf	50.80	81,077		
1083		Outdoor learning	19,932	sf	15.00	298,980		
1084		Concrete ramp	10,949	sf	25.00	273,725		
1085		Concrete pad	2,447	sf	15.00	36,705		
1086		Premium for brick	3,200	sf	10.00	32,000		
1087		Gravel base	2,337	cy	48.00	112,176		
1088		ADA ramps; allow	20	ea	580.00	11,600		
1089								
1090		Site Development						
1091		Fences and Gates						
1092		Chain link fence 6 Ht. Stadium	1,941	lf	48.00	93,168		
1093		6' ht black vinyl chain link fence; double gate	3	ea	1,400.00	4,200		
1094		Fence decorative 42" high	170	lf	120.00	20,400		
1095		Fence decorative 8" high	50	lf	195.00	9,750		
1096								
1097		<u>Concrete retaining wall</u>	364	lf				\$227,860
1098		Excavation	364	cy	14.00	5,096		
1099		Gravel base to footing; 36" thick	67	cy	48.00	3,203		
1100		Remove of excavation material on site	364	cy	10.00	3,640		
1101		Footing concrete strip footing	74	cy	160.00	11,840		
1102		Footing formwork	728	sf	18.00	13,104		
1103		Re-bar at footing	5,920	lbs	1.70	10,064		
1104		Place from truck & vibrate	74	cy	95.00	7,030		
1105		Concrete retaining wall	132	cy	150.00	19,800		
1106		Retaining wall formwork	5,096	sf	22.00	112,112		
1107		Re-bar at retaining wall	15,180	lbs	1.70	25,806		
1108		Place from truck & vibrate	132	cy	95.00	12,540		
1109		Retaining wall weep holes	145	ea	25.00	3,625		
1110								
1111		<u>Modular retaining Block</u>	172	lf				\$42,485
1112		Excavation	191	cy	14.00	2,674		
1113		Gravel base to footing; assume 36" width	39	cy	48.00	1,895		
1114		Remove of excavation material on site for reuse	292	cy	10.00	2,920		
1115		3/4" Crushed stone backfill	39	cy	45.00	1,737		
1116		Backfill with stockpile soil	104	cy	10.00	1,036		
1117		Modular concrete units retaining wall	1,120	sf	26.00	29,120		


DIRECT TRADE COST DETAILS							221,400 gsf	
Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes
1118		4" sub drain pipe	172	lf	18.00	3,102		
1119								
1120		Concrete seat wall	1	ls	28,000.00	28,000		
1121								
1122		Site Furnishings						
1123		Re-located Andrew Gauthier memorial	1	ls	3,520.00	3,520		
1124		Pedestrian walkway bridge	1	ls	1,080,000.00	Alternate		
1125		Bollards, pipe concrete filled 6" dia	30	ea	250.00	7,500		
1126		Traffic signs	23	ea	420.00	9,660		
1127		Bollards; 42" Concrete	42	ea	650.00	27,300		
1128		Concrete dec pier 42" dia	8	ea	550.00	4,400		
1129		Concrete dec pier 24" SQ	4	ea	350.00	1,400		
1130		Concrete dec pier 36" sq	10	ea	450.00	4,500		
1131		Trash receptacles	5	ea	650.00	3,250		
1132		Benches; allow	12	ea	850.00	10,200		
1133		Bicycle rack; allow	1	ls	2,800.00	2,800		
1134		Flagpole w/foundation	2	ea	9,500.00	19,000		
1135		School signage	1	al	30,000.00	30,000		
1136		Site amenities	1	al	75,000.00	75,000		
1137								
1138		G2050.02 Lawns and Grasses						\$1,380,577
1139		Respread topsoil for lawn	21,823	cy	12.00	261,877		
1140		Planting soils; allow	462	cy	56.00	25,872		
1141		Mulch on all planted area	135	cy	62.00	8,370		
1142		Lawn seed	901,848	sf	0.40	360,739		
1143		Landscaped buffer with bioretention basin section	21,885	sf	16.00	350,160		
1144		Save boulders	9	ea	350.00	3,150		
1145		Irrigation system: Trees, plants and ground covers; allow	1	al	25,000.00	25,000		
1146		G2050.03 Trees, Plants and Ground Covers						
1147		Trees	294	ea	850.00	249,900		
1148		Shrubs	69	ea	180.00	12,420		
1149		Groundcover	1	al	83,088.00	83,088		
1150								
1151		Sub Total : Exterior Improvements				6,721,657		
1152								
1153		Subtotal for - Exterior Improvements					\$6,721,657	
1154								
1155	33	Utilities						
1156		Water					-	\$391,810
1157		8" Ductile iron pipe	2,770	lf	86.00	238,220		
1158		6" Ductile Iron Pipe; allow	250	lf	78.00	19,500		
1159		4" Ductile Iron Pipe; allow	30	lf	50.00	1,500		
1160		8" Gate; allow	3	ea	1,500.00	4,500		
1161		4" Gate	1	ea	1,000.00	1,000		
1162		Fire Hydrants and gate	5	ea	3,200.00	16,000		
1163		8" Bend	11	ea	180.00	1,980		
1164		8" Tee	3	ea	260.00	780		



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1165		8" T & S; allow	1	ea	12,500.00	12,500		
1166		Thrust blocks	1	ls	2,500.00	2,500		
1167		Excavation, Bedding, and Backfill	3,050	lf	26.00	79,300		
1168		Pressure test & chlorinate	3,050	lf	4.60	14,030		
1169								
1170		Sanitary						\$118,620
1171		Grease Interceptor; allow	1	ea	15,000.00	15,000		
1172		SMH	5	ea	4,800.00	24,000		
1173		4" PVC	140	lf	42.00	5,880		
1174		8" PVC	800	lf	46.00	36,800		
1175		Connect to exist sewer	1	ea	12,500.00	12,500		
1176		Excavation, Bedding, and Backfill	940	lf	26.00	24,440		
1177								
1178		Storm Drainage						\$1,150,041
1179		Drain manholes	11	ea	4,500.00	49,500		
1180		Catch basin	39	ea	4,200.00	163,800		
1181		Water quality units	2	ea	11,000.00	22,000		
1182		FE / w rip rap	1	ea	2,200.00	2,200		
1183		12" RCP Drain pipe	2,284	lf	65.67	149,990		
1184		15" RCP Drain pipe	939	lf	79.32	74,481		
1185		18" RCP Drain pipe	1,129	lf	93.52	105,584		
1186		10" Perforated underdrain	240	lf	21.00	5,040		
1187		4" Perforated underdrain	2,540	lf	18.00	45,720		
1188		Stormwater bio-retention swale	446	lf	3.50	1,561		
1189		Underground infiltration system	21,986	sf	24.00	527,664		
1190		Connect to exist drainage system	1	ls	2,500.00	2,500		
1191								
1192		Fuel Distribution						
1193		Gas line and connection				by Utility Co		
1194		New gas meter				by Utility Co		
1195		Gas shutoff valves				by Utility Co		
1196		Gas pipe, excavation and backfill; assumed qty	350	lf	35.00	12,250		
1197								
1198		Sub Total : Water				1,672,721		
1199								
1200		Electrical Utilities				\$0		
1201		Electrical Distribution						
1202		New electrical service allowance	1	ls	105,000.00	105,000		
1203		Site Lighting						
1204		Site lighting allowance	1	ls	125,000.00	125,000		
1205		Site Communications & Security						
1206		Telecommunications allowance	1	ls	65,000.00	65,000		
1207		Security allowance	1	ls	30,000.00	30,000		
1208								
1209		Sub Total : Electrical Utilities				325,000		
1210								
1211		Subtotal for - Utilities					\$1,997,721	

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Item	Div	Description	Quantity	Unit	Unit Price	Sub Total	Total	Notes