

Quakertown Community School District

Board Facilities Committee Meeting
November 5, 2015 - 6:00 p.m.

AGENDA

Present were Bob Smith, Joe Kuzo, Bob Riegel, Kelly Harper, Sylvia Kalazs, Dennis Wimmer, Zane Stauffer, George Moore, Norm Long, and Nancianne Edwards.

PRESENTATIONS:

The State of Technology – Joe Kuzo

Joe Kuzo presented information on the 2015-16 and projected 2016-17 technology budget and allocation of student use devices across the district (attached). Leasing still appears to be of the most benefit in terms of keeping the expenditures level in the budget and making sure we have reasonably up to date technology available. Joe also reported on plans to incorporate “student voice” into the student laptop selection process.

Equipment Replacement Plan – Kelly Harper

Kelly presented an equipment replacement plan (attached) for snow removal and athletic field painting over a three year period and reviewed the details. A motion to seek Board approval to put an RFP out for the Level 1 equipment will be included on the November 12 agenda.

HIGH SCHOOL RENOVATION UPDATE - George Moore/Norm Long

Norm Long reviewed the project status to date. George Moore reviewed the change order listing (attached). The change orders, totaling \$187,728.90 will be on the November 12th agenda for approval. The largest of these relate to the redesign of the Family Consumer Science spaces to provide a foods lab and appropriate equipment to deliver the curriculum. Other significant changes were to properly outfit the science labs and to provide adequate power and data for the business labs. The end user review of most areas is complete, with Art, Project Lead the Way, and design of the dance studio/theatre arts room remaining.

INFORMATION/UPDATES:

Community Facilities Study Committee Update – Nancianne

The committee has completed its tours of most of the buildings in the District. Remaining are the Facilities Building and Freshman Center on November 10 and Milford Middle School on November 17. Updates are posted on the QCSD Website ([CFSC Webpage](#))

2016-17 Budget Approach - Nancianne

The 2016-17 budget must be built prior to the CFS Committee's completion of their work and recommendation to the Board. Therefore, we will be including repairs and maintenance as well as proposed capital projects in the draft budget. The exact items may change as a result of the Committee's work, but we have to include a placeholder now. This was discussed with the Committee at a recent meeting.

Athletic Fields Update – Nancianne

As a result of owning the new land, the plan for athletic facilities/fields behind the high school is being reconsidered in light of the new options the land presents. George Moore and Paul from Liberty Engineering are developing some revised concepts to discuss with the administration and then the committee as soon as they are available.

There being no further business, the meeting was adjourned. The December meeting conflicts with the Board Reorganization meeting, so if a December meeting is needed, a different date will need to be selected.

Respectfully Submitted,

Nancianne Edwards
Assistant Superintendent

Technology Budget Overview 15-16

Curriculum	
Digital Literacy for Elementary	\$30,000
8th Grade World Languages	\$25,000
Software Subscriptions/Renewals	\$52,500
Total	\$107,500
Infrastructure	
Contracted Maintenance/Repair	\$156,150
Software and Software Licensing	\$293,250
Hardware (includes loan account)	\$175,000
Total	\$624,400
One to One	
Laptop Purchase	\$263,250
Repairs/Parts/Supplies	\$40,000
Total	\$303,250
Student/Teacher/Classroom Hardware	
Computer Lease - Elementary/Middle School	\$520,549
Tablets / Classroom technology	\$60,000
Total	\$580,549
Miscellaneous	
TV Streaming Service	\$5,500
Web Hosting	\$12,000
Supplies - Break/Fix/Upkeep	\$40,000
Consulting Services/Repairs	\$20,000
Training	\$19,000
Mileage Reimbursement	\$14,500
Misc. Supplies	\$8,000
Professional Subscriptions	\$1,600
Misc. Equipment	\$4,000
Total	\$124,600
Grand Total	\$1,740,299

Projected Technology Budget Overview 16-17

Curriculum	
Digital Literacy for Elementary (Added into technology loan 15-16)	\$30,000
8th Grade World Languages (Added into technology loan 15-16)	\$25,000
Software Subscriptions/Renewals	\$52,500
Total	\$107,500
Infrastructure	
Contracted Maintenance/Repair	\$156,150
Software and Software Licensing	\$293,250
Hardware (includes loan account)	\$175,000
Total	\$624,400
One to One	
Laptop Purchase	\$263,250
Repairs/Parts/Supplies	\$40,000
Total	\$303,250
Student/Teacher/Classroom Hardware	
Computer Lease - Teacher Refresh/Elem/Middle	\$520,549
Classroom technology - Projectors, tablets, doc cams	\$60,000
Total	\$580,549
Miscellaneous	
TV Streaming Service	\$5,500
Web Hosting	\$12,000
Supplies - Break/Fix/Upkeep	\$40,000
Consulting Services/Repairs	\$20,000
Training	\$19,000
Mileage Reimbursement	\$14,500
Misc. Supplies	\$8,000
Professional Subscriptions	\$1,600
Misc. Equipment	\$4,000
Total	\$124,600
Grand Total	\$1,740,299

Account	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17 (Proj)
Technology - 2240						
10-2240-330-000-42-00-00	Purchased and Contracted Services	\$ 14,000	\$ 17,000	\$ 21,500	\$ 19,500	\$ 17,500
10-2240-448-000-42-00-00	Technology Lease	\$ 165,000	\$ 301,518	\$ 491,653	\$ 614,067	\$ 695,549
10-2240-530-000-42-00-00	Technology Communications (Postage)	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
10-2240-610-000-42-00-00	Technology Supplies	\$ 65,000	\$ 80,000	\$ 65,000	\$ 40,000	\$ 80,000
10-2240-648-000-42-00-00	Software & Software Licensing	\$ 108,200	\$ 78,000	\$ 81,500	\$ 57,500	\$ 52,500
10-2240-750-000-42-00-00	New Equipment	\$ 4,500	\$ 6,800	\$ 25,000	\$ 15,000	\$ 15,000
10-2240-758-000-42-00-00	New Computer Equipment	\$ 18,750	\$ 12,500	\$ 25,000	\$ 40,000	\$ 40,000
10-2240-768-000-42-00-00	Replacement Computer Equipment	\$ 320,318	\$ 341,653	\$ 263,250	\$ 263,250	\$ 263,250
	Total =	\$ 696,268	\$ 837,971	\$ 973,403	\$ 1,049,817	\$ 1,164,299
Technology - 2840						
10-2840-330-000-42-00-00	Professional Services	\$ 21,000	\$ 19,600	\$ 15,000	\$ 15,000	\$ 15,000
10-2840-324-000-42-00-00	Technology Training	\$ 10,200	\$ 10,500	\$ 24,500	\$ 23,000	\$ 19,000
10-2840-430-000-42-00-00	Repairs and Maintenance	\$ 15,000	\$ 14,000	\$ 13,500	\$ 13,500	\$ 13,500
10-2840-438-000-42-00-00	Contracted Maintenance & Repair	\$ 154,089	\$ 165,039	\$ 157,500	\$ 155,150	\$ 156,150
10-2840-590-000-42-00-00	Technology Travel		Revised down	\$ 11,500	\$ 11,500	\$ 14,500
10-2840-610-000-42-00-00	Technology Supplies	\$ 9,500	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000
10-2840-611-000-42-00-00	Technology Warehouse Supplies	\$ 142	\$ 100	\$ 100	\$ 100	\$ -
10-2840-618-000-42-00-00	Software and Software Licensing	\$ 332,812	\$ 329,850	\$ 292,150	\$ 274,550	\$ 293,250
10-2840-640-000-42-00-00	Books & Publications	\$ 1,300	\$ 1,300	\$ 1,100	\$ 300	\$ 300
10-2840-750-000-42-00-00	New Equipment	\$ 13,500	\$ 13,500	\$ 12,500	\$ 5,000	\$ 5,000
10-2840-768-000-42-00-00	Replacement Computer Equipment	\$ 132,715	\$ 201,715	\$ 109,000	\$ 50,000	\$ 50,000
10-2840-810-000-42-00-00	Dues & Fees	\$ 8,973	\$ 8,973	\$ 2,000	\$ 1,300	\$ 1,300
	Total =	\$ 699,231	\$ 772,577	\$ 646,850	\$ 557,400	\$ 576,000
	Technology Budget Total =		1,610,548	1,620,253	1,607,217	1,740,299

QCSD Technology Devices for Student Use

Elementary	# Devices	# Students	Ratio	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Neidig	330	386	.86:1	iPad Cart for each classroom	1 iPad Cart (shared by 3 classes)		3 HP Laptop Carts 5 Chromebook Carts (shared by 12 classrooms)		
Pfaff	300	459	.65:1	iPad Cart for each classroom	1 iPad Cart (shared by 3 classes)		3 HP Laptop Carts 5 Chromebook Carts (shared by 13 classrooms)		
QE	300	272	1.1:1	iPad Cart for each classroom	1 iPad Cart (shared by 2 classes)		3 HP Laptop Carts 4 Chromebook Carts (shared by 12 classrooms)		
Richland	330	434	.76:1	iPad Cart for each classroom	1 iPad Cart (shared by 3 classes)		3 HP Laptop Carts 5 Chromebook Carts (shared by 8 classrooms)		
Tohickon Valley	300	389	.77:1	iPad Cart for each classroom	1 iPad Cart (shared by 3 classes)		3 HP Laptop Carts 5 Chromebook Carts (shared by 12 classrooms)		
Trumbauersville	300	409	.73:1	iPad Cart for each classroom	1 iPad Cart (shared by 3 classes)		3 HP Laptop Carts 4 Chromebook Carts (shared by 12 classrooms)		
Total Devices	1860	2349	.79:1						

Secondary	# Devices	# Students	Ratio	Per Building
Milford Middle	450	431	1.04:1	8 HP Laptop Carts 7 Chromebook Carts (shared by 23 classrooms)
Strayer Middle	990	865	1.10:1	17 HP Laptop Carts 16 Chromebook Carts (shared by 38 classrooms)
High School	1717	1717	1:1	Type of device (1 device for each student)
Total Devices	3157	3013	1.04:1	

This data does not include computers used in specific curricular labs such as PLTW and business labs

This data does not include computers used in special education areas

This data does not include computers used by administrators, teachers, or office staff

Building Technology 2016-17

- **District Level**
 - Evaluate building audio/visual and plan for staged replacement of projectors and interactive technologies
 - Review disaster recovery options for 600 Park Ave as district back up site

- **Elementary Buildings**
 - Add additional iPad carts to provide a cart for each 1st grade classroom
 - Add additional Chromebook carts to provide a cart for each instructional space
 - Begin to remove dated laptop carts

- **Middle School Buildings**
 - Milford Middle School
 - Add additional Chromebook carts to provide a cart for each instructional space (7 carts)
 - Begin to remove dated laptop carts
 - Strayer Middle School
 - Add additional Chromebook carts to provide a cart for each instructional space (11-12 carts)
 - Begin to remove dated laptop carts

- **Senior High & Freshman Center**
 - Continue One to One
 - Add technologies in newly renovated spaces as needed

Overview - - Snow Removal Equipment Replacements

COSTS and DETAILS (per Level)						
Trucks	Condition	Location or areas serviced	Level 1	Level 2	Level 3	
2015 GMC with Boss V-Plow	Good	MMS and TVES				
2013 GMC with Boss V-Plow	Good	HES, NES and DSC				
2009 F-250 with Meyers Plow	Good	SHS				
Replacement GMC truck with plow	New	QES and SHS			\$40K	
Replacement GMC truck with plow	New	FC			\$40K	
Replacement GMC truck with plow	New	FC and Facilities	\$40K			
New Dump Truck with Salter	New	District-wide	\$75K - estimated			
2005 F-350 Dump with Hydraulic Salter	Good - Undercoating to prolong Frame life	District Wide – supplemental salting and plowing				
Other Equipment	Condition	Location or areas serviced				
New tractor with Snow blower, brush and grass cutting attachment	New	SHS and QES	\$44K			
New tractor with snow blower and brush	New	SMS		\$44K		
JD loader (4WD)	New	Load salt and bulk snow removal district-wide	\$90K			
John Deere X585 with Blower and Broom	Good	Around Alumni				
			Cost per Levels	\$249K	\$44K	\$80K
			Total costs	\$373K		

Responsible Groups		
School	Sidewalks	Parking lots
HES	Maintenance	Maintenance
NES	Custodial	Maintenance
PES	Custodial	Contractor
QES	Custodial	Maintenance
RES	Custodial	Contractor
TVES	Custodial	MAINTENANCE
TES	Custodial	Contractor
MMS	Custodial	MAINTENANCE
SMS	Custodial	Contractor
SHS	Custodial	Maintenance
FC	Custodial	Maintenance
DSC	Maintenance	Maintenance

MAINTENANCE = Need to contract out, due to (3) maintenance vacancies

Snow Removal

Current system:

Equipment Summary:

- (13) Walk behind snow blowers
- (6) Trucks with plows
- (1) Dump truck with salt spreader
- (1) Front end loader
- (2) Tractor mounted snow blowers and brushes

Snow Blowers			
Building	Number of snow blowers	Linear Feet of Sidewalks	Condition
TVES	1	300	Good
PEB	2	2200	Good
TES	2	3120	Poor
NES	1	2000	Poor
QES	1	1850	Poor
MMS	1	850	Fair
FC	1	1300	Poor
Facilities	2 tractors	5150	Good
RES	1	1525	Good
SHS	1	3400	Good
SMS	2	2100 + [2000 (Share Ronald Reagan Blvd with RES)]	Good

Trucks	Condition	Location or areas serviced
2015 GMC with Boss V-Plow	Good	MMS and TVES
2013 GMC with Boss V-Plow	Good	HES, NES and DSC
2009 F-250 with Meyers Plow	Good	SHS
2001 Chevy with Western Plow	Fair	QES and SHS
2000 GMC with Western Plow	Fair - Reading Truck body Lots of Rust	FC
1991 Chevy with Western Plow	Poor - Need Replacement	FC and Facilities
2005 F-350 Dump with Hydraulic Salter	Fair - Heavy Frame Rust	District Wide
Other Equipment	Condition	Location or areas serviced
1995 Toro with Blower - Replacement	Poor - Parts are obsolete	In Town Walks
1986 John Deere Loader 310 C (2WD)	Poor - Need Replacement	Facilities Building to load salt
John Deere X585 with Blower and Broom	Good	Around Alumni

Proposed system:

Changes (Level 1):

Equipment Summary:

- (10) Walk behind snow blowers
- (7) Trucks with plows
- (2) Dump trucks with salt spreaders
- (1) Front end loader
- (2) Tractor-type snow blowers and brushes

Changes:

- Replace 1995 Toro tractor/snow blower
 - Obsolete equipment
- Add (1) New dump truck with salt spreader– larger capacity
- Add (1) Plow to the older dump truck
 - Previously not used to plow - conserved usage (prolong its lifespan)
- Replace 1986 JD Loader (2WD)
 - If this equipment fails, we are unable to load salting equipment.
- Replace 1991 Chevy pickup with plow
 - Unreliable
- Repair all “Fair” and “Poor” condition Walk behind snow blowers

Details:

- SHS and FC use tractor-type snow blowers and brushes
 - FC – use existing JD X585
 - Responsibilities will include Main Street and Alumni field
 - SHS – Use New Tractor (TBD) [Replacement of Toro tractor]
 - Responsibilities will include Park Avenue and QES
 - Use for special grass cuts at SHS sports fields
- Maintenance men only plow and salt parking lots.
 - Previously (2) men ran tractors to assist the FC and SHS campus sidewalk snow removal.
- QES responsibilities reduced to assist SHS by hand.
 - Salting and hand shoveling
- Add (1) larger capacity dump truck with salter.
 - Previously - marginal ability to cover all parking lots in time for school openings.
- Existing dump truck
 - Use for supplemental salting and plowing
 - Investigate an undercoating to prolong life
- Replace 1986 JD loader (2WD)
 - Reliable salt loader
 - District-wide bulk snow removal
 - (4WD) required for bulk snow removal
 - Digging projects – misc.
- Reliable truck and plow
- Improved walk behind snow blowers

(LEVEL 1 Charts)

Snow Blowers			
Building	Number of snow blowers	Linear Feet of Sidewalks	Condition
TVES	1	300	Good
PES	2	2200	Good
TES	2	3120	Good
NES	1	2000	Good
QES	0	0	N/A
MMS	1	850	Good
FC	1 Tractor	5800	Good
Facilities	0	0	N/A
RES	1	1525	Good
SHS	1 Tractor	5800	New
SMS	2	2100 + [2000 (Share Ronald Reagan Blvd with RES)]	Good

Trucks	Condition	Location or areas serviced
2015 GMC with Boss V-Plow	Good	MMS and TVES
2013 GMC with Boss V-Plow	Good	HES, NES and DSC
2009 F-250 with Meyers Plow	Good	SHS
2001 Chevy with Western Plow	Fair	QES and SHS
2000 GMC with Western Plow	Fair - Reading Truck body Lots of Rust	FC
Replacement GMC truck with plow	New	FC and Facilities
New Dump Truck with Salter	New	District-wide
2005 F-350 Dump with Hydraulic Salter With Plow	Fair - Heavy Frame Rust – Investigating an undercoating to prolong life	District Wide – supplemental salting and plowing
Other Equipment	Condition	Location or areas serviced
Tractor with Snow blower, brush and grass cutting attachment	New	SHS and QES
JD loader (4WD)	New	Load salt and bulk snow removal district-wide
John Deere X585 with Blower and Broom	Good	Around Alumni

Changes (Level 2):

Equipment Summary:

- (8) Walk behind snow blowers
- (7) Trucks with plows
- (2) Dump trucks with salt spreaders
- (1) Front end loader
- (3) Tractor-type snow blowers and brushes

Changes:

- Add New tractor for SMS

Details:

- SMS – Use New tractor instead of (2) walk behind snow blowers
 - Reliable snow removal
 - Responsibilities will include all of Ronald Reagan Boulevard
 - Previously shared with RES

(LEVEL 2 Charts)

Snow Blowers			
Building	Number of snow blowers	Linear Feet of Sidewalks	Condition
TVES	1	300	Good
PES	2	2200	Good
TES	2	3120	Good
NES	1	2000	Good
QES	0	0	N/A
MMS	1	850	Good
FC	1 Tractor	5800	Good
Facilities	0	0	N/A
RES	1	1525	Good
SHS	1 Tractor	5800	New
SMS	1 Tractor	4100	New

Trucks	Condition	Location or areas serviced
2015 GMC with Boss V-Plow	Good	MMS and TVES
2013 GMC with Boss V-Plow	Good	HES, NES and DSC
2009 F-250 with Meyers Plow	Good	SHS
2001 Chevy with Western Plow	Fair	QES and SHS
2000 GMC with Western Plow	Fair - Reading Truck body Lots of Rust	FC
Replacement GMC truck with plow	New	FC and Facilities
New Dump Truck with Salter	New	District-wide
2005 F-350 Dump with Hydraulic Salter	Fair - Heavy Frame Rust – Investigating an undercoating to prolong life	District Wide – supplemental salting and plowing
Other Equipment	Condition	Location or areas serviced
New tractor with Snow blower, brush and grass cutting attachment	New	SHS and QES
New tractor with snow blower and brush	New	SMS
JD loader (4WD)	New	Load salt and bulk snow removal district-wide
John Deere X585 with Blower and Broom	Good	Around Alumni

Changes (Level 3):

Equipment Summary:

- (8) Walk behind snow blowers
- (7) Trucks with plows
- (2) Dump trucks with salt spreaders
- (1) Front end loader
- (3) Tractor-type snow blowers and brushes

Changes:

- Replace 2000 GMC pickup with plow
- Replace 2001 Chevy pickup with plow

Details:

Increased snow removal reliability

(LEVEL 3 Charts)

Snow Blowers			
Building	Number of snow blowers	Linear Feet of Sidewalks	Condition
TVES	1	300	Good
PES	2	2200	Good
TES	2	3120	Good
NES	1	2000	Good
QES	0	0	N/A
MMS	1	850	Good
FC	1 Tractor	5800	Good
Facilities	0	0	N/A
RES	1	1525	Good
SHS	1 Tractor	5800	New
SMS	1 Tractor	4100	New

Trucks	Condition	Location or areas serviced
2015 GMC with Boss V-Plow	Good	MMS and TVES
2013 GMC with Boss V-Plow	Good	HES, NES and DSC
2009 F-250 with Meyers Plow	Good	SHS
Replacement GMC truck with plow	New	QES and SHS
Replacement GMC truck with plow	New	FC
Replacement GMC truck with plow	New	FC and Facilities
New Dump Truck with Salter	New	District-wide
2005 F-350 Dump with Hydraulic Salter	Good -Undercoating to prolong Frame life	District Wide – supplemental salting and plowing
Other Equipment	Condition	Location or areas serviced
New tractor with Snow blower, brush and grass cutting attachment	New	SHS and QES
New tractor with snow blower and brush	New	SMS
JD loader (4WD)	New	Load salt and bulk snow removal district-wide
John Deere X585 with Blower and Broom	Good	Around Alumni

SPORTS FIELDS

LINE PAINTING AND FIELD PREPARATION

Current system:

Equipment Summary:

- (3) Golf carts were modified for painting
 - a. Air and paint tank system hooked to a sprayer
 - b. All three are obsolete equipment
- (2) Golf carts/paint systems are Out of Service
- (1) Golf cart has been salvaged between the three
- (1) JD tractor -X585
- (1) Walk behind paint liner
 - a. Slow – but ok for small touch up use

Details:

- (1) Tractor used at all schools – Field Preparation
- (1) Golf cart is used for All schools – Line Painting
 - a. Previously we had (3) paint machines
 - b. This is transported between the three schools (MMS, SMS and SHS)
 - c. Coordination is challenging to get all completed

Proposed System:

Equipment Summary:

- (2) New field painting machines (TBD)
- (1) New trailer to transport equipment separately
- (1) JD tractor -X585 used for field preparation (existing)
- (1) Walk behind paint liner

Details:

Three years ago we used one maintenance person at each of the three schools to do sports field work separately. This older equipment required several repairs over the years. We salvaged parts from the other machines to make one workable for last year. With only one machine, we tried to consolidate the work and transport equipment between the schools. We hired a “grounds maintenance worker” and tried to do all the schools with one person. We found out this does not work. We supplemented the single person’s work with another maintenance worker during the peak times of the seasons.

Having working equipment and allocating additional time with the second maintenance person will accomplish the field work.

COSTS and DETAILS			
Equipment	Cost	Level 1	Level 2
Paint machine	\$10K each	\$10K	\$10K
Trailer	\$8K	\$8K	
	Level Totals	\$18K	\$1K
		TOTAL COSTS =	\$28K

ADDITIONS & ALTERATIONS TO:**QUAKERTOWN HIGH SCHOOL****Project No. 20-10****October 31, 2015****CONTRACT SUMMARY TOTAL**

Contracts:	Original Contract Amount	C.O. Amount	Current Contract Amount
General	\$36,672,000.00	\$96,675.70	\$36,768,675.70
Plumbing	\$4,097,800.00	\$264,477.00	\$4,362,277.00
Mechanical	\$9,040,000.00	\$171,946.00	\$9,211,946.00
Electrical	\$9,926,946.00	\$96,144.72	\$10,023,090.72
TABC	\$87,000.00		\$87,000.00
Total All Contracts	\$59,823,746.00	\$629,243.42	\$60,452,989.42

NARRATIVE OF CHANGE ORDERS

G-068 adds ductwork crossover stairs and platforms to prevent damage to low-lying ductwork in the Mechanical Mezzanine, for \$18,937.25.

E-033 through E-036 represent the electrical costs to run additional power and data to the District's furniture in the three Business classrooms on the second floor of Unit "B," and to hard wire the power and data into the furniture. The work was done on a T&M basis over the summer, in order to be ready for the start of school. The four Change Orders total \$44,214.48.

E-039 is the electrical component of adding a master gas shut-off in Corridor I-101, as requested by the Borough Code Official, at \$1,607.00.

The remaining Change Orders represent work being done to accommodate changes in program for Science and Family & Consumer Science.

G-069, P-037, and E-037 accommodate the Science changes. They total \$32,042.16.

G-070, G-071, G-072, G-073, G-074, P-038, M-006, and E-038 represent work being done to accommodate changes in the Family and Consumer Sciences program. They total \$90,928.00.

Prior to these Change Orders, the total amount of Change Orders represented 1.05% of the original Contract Amounts. With the Change Orders above, the total amount of Change Orders will represent 1.37% of the original Contract Amounts.

QUAKERTOWN COMMUNITY SCHOOL DISTRICT
Facilities Committee Meeting
November 5, 2015

Additions and Alterations to Quakertown Community High School

GENERAL CONSTRUCTION

- G-068 Provide ductwork crossover stairs and platforms at six (6) locations in Mechanical Mezzanine H-201. Platforms shall be open tread steel grating, supported by bolted steel angle frames. All platforms and stairs shall be painted safety yellow. \$18,937.25
- G-069 Provide the following modifications to science casework and equipment:
1. At Science Prep I-210 provide 1/2" thick solid hardwood lip to the front of all shelves in cabinets on south wall to form 1/2" high retaining rim, as per RA-163a Casework Modifications @ Science Prep I-210, dated 7/29/2015;
 2. At Physics Prep I-223 provide 1/2" thick solid hardwood lip to the front of all shelves in cabinets on south wall to form a high retaining rim;
 3. At Physics Prep I-223 provide casework, and Dishwasher Type 1 on north wall as indicated on Drawing RA-163 Casework Modifications @ Physics Prep I-223, dated 7/29/2015;
 4. At Science Lab I-214, Science Lab I-216, Science Lab I-218, and Science Lab I-221 provide wood laboratory casework and WM-2000 Sellstrom Manufacturing germicidal eyeglass/goggle cabinet, as per RA-162a Goggle Cabinet Location @ Science Lab I-214, Science Lab I-216 Sim., RA-162b Goggle Cabinet Location @ Science Lab I-218, and RA-162c Goggle Cabinet Location @ Science Lab I-221, all dated 7/29/2015;
 5. At Biology Prep I-217 provide flammable storage cabinet, modify wood laboratory casework, relocate Ice Maker Type 1, and add Dishwasher Type 1, as per Drawing RA-42h REVISED Biology Prep I-217, revision dated 7/29/2015; and,
 6. At Physics Lab J-220, Physics Lab J-222, and Physics Lab J-224, provide instructor demonstration table 19/E-05 without sink and faucet, as per Drawing RA-164 Instructor Demonstration Bench Location @ J-220, J-222, & J-224, dated 7/29/2015. 19,014.16

- G-070 Provide 3-5/8" metal stud and gypsum board partition to enclose Closet I-121, and soffit and fascia at column line IC above revised cabinets as Drawing RA-167a Revised Plan & Elevations, FCS Cooking I-119, dated 10/7/2015. Relocate marker board and provide curtain, track, and mirror as per Drawing RA-167b Revised FCS Sewing I-117, dated 10/7/15. 13,500.00
- G-071 Provide revised and additional base, wall, and tall cabinets in FCS Classroom I-115 (Parenting,) FCS Sewing I-117, and FCS Cooking I-119, as per Drawings RA-167a, RA-167b, RA-167c, and RA-167d, all dated 10/7/2015. 18,875.00
- G-072 Provide additional appliances in FCS Cooking I-119 as per Drawing RA-167a Revised Plan & Elevations, FCS Cooking, dated 10/7/2015 and the following schedule:
- a. Commercial Reach-In Refrigerator: Beverage Air 49 cu. ft., 52" Horizon Series HR2-1S Two Section Solid Door Reach-In Refrigerator;
 - b. Commercial Reach-In Freezer: Beverage Air 24 cu. ft., 26" Horizon Series HF1-1S One Section Solid Door Reach-In Freezer with Stainless Steel Interior;
 - c. Double Convection Wall Oven: Kenmore #49533 Self-Clean Double electric Wall Oven w/ Convection, Stainless Steel, 4.6 cu ft. capacity, installed in new cabinetry; and,
 - d. Island Cooktop: Jenn-Air model JX3 36' Gas Downdraft Cooktop w/ JDA7000Wx Duct-Free Kit, installed in new cabinetry. 18,995.00
- G-073 Provide two (2) Type 1 stainless steel dishwashers, one (1) Type 3 gas range, one (1) Type 4 electric range, one (1) Type 5 drop-in range and one (1) Type 2 exhaust hood, installed in new cabinetry, as per Drawing RA-167a, Revised Plan & Elevations, FCS Cooking I-119, dated 10/7/2015. 9,850.00
- G-074 Provide two (2) Type 3 overhead range microwaves, installed in new cabinetry, and one (1) Type 4 countertop microwave, as per Drawing RA-167a, Revised Plan & Elevations, FCS Cooking I-119, dated 10/7/2015. 1,975.00

PLUMBING CONSTRUCTION

- P-037 Provide the following modifications to accommodate science casework and equipment changes:
1. Revise hot water, cold water, sanitary drain and vent locations for Ice Maker Type 1, and provide hot water, cold water, sanitary drain and vent for Dishwasher Type 1 at Biology Prep I-217, located as per Drawing RA-42h REVISED Biology Prep I-217, revision dated 7/29/2015;
 2. Provide hot water, cold water, sanitary drain and vent for Dishwasher Type 1 at Physics Prep I-223, located as per Drawing RA-163 Casework Modifications @ Physics Prep I-223, dated 7/29/2015; and,
 3. Provide vent piping thru roof for flammable storage cabinet at Biology Prep I-217, located as per Drawing RA-42h Revised Biology Prep I-217, revision dated 7/29/2015. 5,213.00
- P-038 Provide modifications to accommodate FCS casework and equipment changes in FCS Cooking I-119, including an emergency gas shut-off system, as per Drawings RP-43 and RP-44, both dated 10/14/2015. 16,086.00

HVAC CONSTRUCTION

- M-006 Provide modifications to accommodate FCS layout and equipment changes in FCS Cooking I-119 as per Drawing RM-37 FCS Cooking I-119 Revisions - Mechanical, dated 10/14/2015. 3,029.00

ELECTRICAL CONSTRUCTION

- E-033 Provide panel board "AC2E" in Unit "B" Basement for additional power to feed receptacles in furniture in Business Labs B-222, B-224, and B-226, including feeder conduit and branch conduit to trough on Unit "B" First Floor, as per RE-49, 50, and 51, all dated 11/6/14. Work done on a T&M basis. 11,356.30
- E-034 Provide additional power and data to Business Lab B-222, from Unit "B" First Floor power trough and IDF in Data B-135, to Owner furnished furniture. Wire into data jacks and power receptacles installed in furniture. Coordinate power and data poke-through locations with Owner's furniture vendor. Work done on a T&M basis. 11,362.98

- E-035 Provide additional power and data to Business Lab B-224, from Unit "B" First Floor power trough and IDF in Data B-135, to Owner furnished furniture. Wire into data jacks and power receptacles installed in furniture. Coordinate power and data poke-through locations with Owner's furniture vendor. Work done on a T&M basis. 9,308.62
- E-036 Provide additional power and data to Business Lab B-226, from Unit "B" First Floor power trough and IDF in Data B-135, to Owner furnished furniture. Wire into data jacks and power receptacles installed in furniture. Coordinate power and data poke-through locations with Owner's furniture vendor. Work done on a T&M basis. 12,186.58
- E-037 Provide the following modifications to accommodate science casework and equipment changes:
1. Provide 110 voltage power for Sellstrom Model 2000 Germicidal cabinet at the following locations:
 - a. Chemistry Lab I-208: see interior elevation on Drawing A-620;
 - b. Science Lab I-214: see Drawing RA-162a, dated 7/29/2015;
 - c. Science Lab I-216: see Drawing RA-162a sim., dated 7/29/2015;
 - d. Science Lab I-218: see Drawing RA-162b, dated 7/29/2015; and,
 - e. Science Lab I-221: see Drawing RA-162c, dated 7/29/2015;
 2. Revise power location for Ice Maker Type 1, provide electrical grounding for flammable storage cabinet, and provide power for Dishwasher Type 1 at Biology Prep I-217, located as per Drawing RA-42h REVISED Biology Prep I-217, revision dated 7/29/2015, issued herewith;
 3. Provide power for Dishwasher Type 1 at Physics Prep I-223, located as per Drawing RA-163 Casework Modifications @ Physics Prep I-223, dated 7/29/2015;
 4. Provide electrical grounding for flammable storage cabinet at Science Prep I-210, located as per Drawing RA-163a Casework Modifications @ Science Prep I-210, dated 7/29/2015;
 5. Provide power and data to demonstration bench at Physics Lab J-220, Physics Lab J-222, and Physics Lab J-224, located as per Drawing RA-164 Instructor Demonstration Bench Location @ J-220, J-222, & J-224, dated 7/29/2015;

6. Delete electrical devices indicated to be provided at the laboratory casework islands at Chem Lab I-208 and Science Lab I-221 on Drawing EP-120 Unit I Second Floor Power Plan. Laboratory casework and electrical devices will be furnished by the GC and installed by the EC. See Drawing G-001, General Note 23 for additional information; and,

7. Provide power for emergency purge buttons by MC at the following locations:

- a. Chemistry Lab I-208: see Drawing RE-40, revision dated 7/29/2015;
- b. Science Lab I-214: see Drawing RA-162a, dated 7/29/2015;
- c. Science Lab I-216: see Drawing RA-162a sim., dated 7/29/2015;
- d. Science Lab I-218: see Drawing RA-162b, dated 7/29/2015; and,
- e. Science Lab I-221: see Drawing RE-40, revised date 7/29/2015.

7,815.00

E-038 Provide modifications for revised and new equipment layouts in FCS Classroom I-115, FCS Sewing I-117, and FCS Cooking I-119, as per Drawings RE-70, 71, 72, 73, 74, 75, 76, 77, and 78, all dated 10/19/2015.

8,618.00

E-039 Provide power outlet, fire alarm monitor module, and monitor module outlet for gas emergency control station in Corridor I-101, as requested by the Code Official.

1,607.00

TOTAL OF CHANGE ORDERS

\$187,728.89



Additions and Alterations to: Quakertown Community High School Quakertown Community School District

CONSTRUCTION: WORK COMPLETED TO DATE



Sequence of Work for Construction:

Phase 3A

June 2015 to
August 2016

Phase 3B

June 2016 to
August 2016

Project meetings were held with the contractors on October 9, and 23, 2015. The meetings were held at the project trailer behind the High School.

Continuing to review Contractor work and providing support to the Architect.

Participated in the weekly end user meetings each Friday.

The General Contractor continues to hold weekly coordination meetings at the project trailer.

The following major materials were received at the job site:

- Additional Metal Door Frames.
- Rooftop HVAC Units for Unit I
- Additional Metal Studs for Framing
- Drywall

The General Contractor performed the following work:

- Misc punch list items
- Complete pouring the concrete stairs in Workshop
- Metal stud framing on the 2nd floor of Unit I
- Window infills and misc cmu patch work
- Install skylights
- Layout of metal studs on 1st floor of Unit I
- Exterior framing and sheathing Unit I
- Rainscreen- vapor barrier and concrete face wall panels Unit I
- Complete punch list on stage stairs
- Install of wire mesh partition Unit H lower level



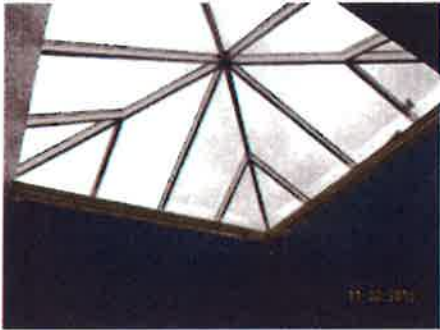
**CONSTRUCTION:
WORK COMPLETED TO DATE (CONT'D.)**



Unit I Exterior

Plumbing Contractor performed the following:
Finished saw cutting for first Floor Unit I underground
Began underground sanitary, acid and storm for Unit I
Roughed-in gas and water for 2nd Floor Unit I island stations

HVAC Contractor performed the following:
Continue coordination with GC, EC & PC
Continued Daily Clean-up
Continued Troubleshooting HVAC Issues
Continued Wall & Floor Patching in Area I
Core Drill for Area I level 2 Pipe Penetrations
Set Area I Rooftop Equipment (RTU's, EF's & Condensing Unit)
Continued Area I Coordination Drawings



**Unit I Second Floor
Skylight**

The Electrical Contractor performed the following:
Branch circuit for power and light - basement areas
In wall rough in, 2nd floor I section for:
Power
Fire Alarm
Lighting



**Display Case Framing
Second Floor—Unit I**

The Balancing Contractor:
Continues to perform air and water balancing.
Supporting Commissioning activities

Abatement Contactor:
Next planned activity is in the Phase 4



**Framing Second Floor
Unit I**



**Second Floor
Plumbing Rough In**

WORK TO COMPLETE NEXT 30 DAYS

General Contractor

- Continue with work listed above
- 1st floor Unit I metal stud framing
- Complete entire workshop area
- Window installation Unit I
- Complete dock bumpers
- Complete coiling door at stage



**Pre-fab Plumbing
For First Floor**

Plumbing Contractor:

- Complete first Floor Unit I underground
- Complete aboveground rain water I Unit
- Continue in wall rough-ins 2nd Floor Unit I

HVAC Contractor:

- Continue all above
- Owner training for kitchen hood system (Scheduled for 10-28-15)
- Rough-in VHP Condensate
- Hanger Installation – Area I
- Begin Duct Fabrication – Area I



Under Slab Plumbing

Electrical Contractor:

- Continue with the above
- Saw cut for floor boxes, 1st floor I section

All Contractors have been working on Change Order Work which includes electrical work in the Administrative Office. They are Continuing punch list work and extensive activity will be done over the Thanksgiving break.

DECISIONS REQUIRED

None at present.

CRITICAL ISSUES

None at present.



First Floor Demolition

MAJOR SCHEDULE EVENTS



**Workshop and Storage
(Back Stage)**



Exterior Coiling Door



Athletic Storage



Exterior—Upper Gym



**Ductwork from
Rooftop Unit**

Phase 2A—Major Rooms Completion August 14, 2015

- First Floor Unit B
 - Conference Room
 - 2 - Special Ed Room
 - 4 - Alternative Ed
 - Nurse and Life Skills
- Second Floor Unit B
 - with 9 Classrooms
- First Floor Unit C
 - 4- Classrooms
 - Locker Lobby
 - Support Rooms

Phase 2B—Major Rooms Completion August 14, 2015

- Cafeteria
- Kitchen and Serving Area
- Front Entrance and Lobby
- Restrooms

Phase 3A—Major Rooms Completion August 14, 2016

- First Floor Unit I
 - Conference Room
 - 1 Special Ed Room
 - Locker Lobby
 - 1 Computer Room
 - 6 Classrooms
 - 2 FCS Classrooms
 - Restrooms
- Second Floor
 - 5 Science Labs
 - 4 Science Classrooms
 - 1 Faculty Room
 - Restrooms