

OFFICE OF THE PURCHASING AGENT

TOWN OF ARLINGTON 730 Massachusetts Avenue Arlington, MA 02476

Telephone (781) 316-3003 Fax (781) 316-3019

DATE: September 11, 2017

TO ALL BIDDERS

BID NO. 17-53

SUBJECT: Owners Project Manager/Central School Renovation

ADDENDUM NO. 1

TO WHOM IT MAY CONCERN:

With reference to the bid request relative to the above subject, please note the following:

ATTACHED: 1) ARLINGTON CENTRAL SCHOOL SENIOR CENTER STUDY

- 2) CENTRAL SCHOOL MEP FP EXISTING CONDITIONS REPORT
 - 3) SENIOR CENTER FEASIBILITY STUDY

The 3rd & 4th floor renovation by the Arlington Center for the Arts will be completed in spring 2018 and will not impact this project

All other terms, conditions and specifications remain unchanged.

Very truly yours,

Town of Arlington

Domenic R. Lanzillotti Purchasing Officer



"Construction Cost Consultants"

Study Arlington Central School Senior Center Arlington, MA

April 11, 2016

GRAND SUMMARY

RENOVATION GF & 1ST FLOOR - OP	\$3,130,846			
UPPER FLOOR SHELL & CORE UPGR	ADES:			
2ND FLOOR	7,812	GSF	\$50.00	\$390,600
3RD FLOOR W/1443 GSF DBL VOLUM	7,812	GSF	\$50.00	\$390,600
MEZZANINE	4,524	GSF	\$50.00	\$226,200
TENANT IMPROVEMENTS				NIC
Т	OTAL DIREC	CT COST		\$4,138,246
GENERAL CONDITIONS		7.	5%	\$310,368
GENERAL REQUIREMENTS		2.	5%	\$111,215
P&P BOND AND INSURANCE		1.8	5%	\$84,357
PERMIT			0% waived	\$0
FEE			4%	\$185,767
DESIGN CONTINGENCY		10.	0%	\$464,419
ESCALATION (winter 2017)		3.	5%	\$185,303
Т	OTAL CONS	TRUCTION	I COST	\$5,479,676

ALTERNATE:

OPTION NO. 1 - REVISED KITCHEN LAYOUT	(\$140,439)
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PROJECT: LOCATION: CLIENT: DATE:	Arlington Central School Senior Cent Arlington, MA Sterling Associates, Inc 11-Apr-16	COST *Incl general # *Incl 190 GSF	D. OF SQ. FT.: PER SQ. FT.: reno 15,624 GSF F entry addition F kitchen addition	16,574 \$188.90 & reno
Project No: 16044	SUMMARY		RENOVATION · Ground & First flo	
		DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 02 - E	XISTING CONDITIONS			
022820 ASBESTC	OS REMEDIATION	10,000	0%	0.60
024116 BUILDIN	G DEMOLITION	66,532	2%	4.01
DIVISION 03 - C	CONCRETE			
033000 CAST IN	PLACE CONCRETE	43,868	1%	2.65
DIVISION 04 - N	IASONRY			
042000 MASONR	Y*	29,210	1%	1.76
DIVISION 05 - M	IETALS			
055000 MISCELL	ANEOUS & ORNAMENTAL IRON*	90,274	3%	5.45
051200 STRUCTU	JRAL STEEL FRAMING	46,650	1%	2.81
053100 STEEL DI	ECKING	7,620	0%	0.46
054000 COLD FO	RMED METAL FRAMING	6,379	0%	0.38
	VOOD, PLASTICS & COMPOSITE			
061000 ROUGH C		20,880	1%	1.26
062000 FINISH C	ARPENTRY	100,182	3%	6.04
DIVISION 07 - T	HERMAL & MOISTURE PROTEC	TION		
	OR BARRIER, WATERPROOF. & CA		0%	0.64
	G AND FLASHING*	26,781	1%	1.62
072100 BUILDIN		65,017	2%	3.92
074213 SIDING A	ND TRIM	14,900	0%	0.90
DIVISION 08 - O				
085213 WINDOW		117,500	4%	7.09
	PENING ASSEMBLIES	158,615	5%	9.57
	COUNTER DOORS	3,500	0%	0.21
087100 FINISH H		10,500	0%	0.63
088000 GLASS A		0	0%	0.00
089000 EXTERIO	OR LOUVERS	1,500	0%	0.09
DIVISION 09 - F				
	WALLBOARD SYSTEMS	132,598	4%	8.00
093000 CERAMIC		94,003	3%	5.67
096519 RESILIEN	NT FLOORING*	19,388	1%	1.17

	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
099100 PAINTING*	52,722	2%	3.18
095100 ACOUSTICAL CEILINGS*	83,150	3%	5.02
095900 WOOD FLOORING	16,704	1%	1.01
096800 CARPETING 098433 ACOUSTICAL WALL PANELS	41,545 43,200	1% 1%	2.51 2.61
098433 ACOUSTICAL WALL PANELS	43,200	170	2.01
DIVISION 10 - SPECIALTIES			
101000 OPERABLE PARTITION	32,200	1%	1.94
101400 SIGNAGE	10,815	0%	0.65
102113 TOILET COMPARTMENTS	12,650	0%	0.76
102800 TOILET ACCESSORIES	11,085	0%	0.67
109000 MISCELLANEOUS SPECIALTIES	9,250	0%	0.56
DIVISION 11 - EQUIPMENT	106 200	20/	6 41
119000 EQUIPMENT	106,200	3%	6.41
DIVISION 12 - FURNISHINGS			
129000 FURNISHINGS	20,250	1%	1.22
	,		
DIVISION 14 - CONVEYING EQUIPMENT			
142400 ELEVATORS & LIFTS*	0	0%	0.00
DIVISION 21 - FIRE SUPPRESSION			
210000 FIRE SUPPRESSION*	63,234	2%	3.82
210000 TIKE SOTT KESSION	05,254	270	5.02
DIVISION 22 - PLUMBING			
220000 PLUMBING*	261,800	8%	15.80
DIVISION 23 - HVAC			
230000 HVAC*	670,460	21%	40.45
DIVISION 26 - ELECTRICAL			
260000 ELECTRICAL*	507,720	16%	30.63
200000 ELECTRICAL	507,720	1070	50.05
DIVISION 31 - EARTHWORK			
310000 EARTHWORK	20,000	1%	1.21
311000 SITE PREPARATION & CLEARING	12,500	0%	0.75
DIVISION 32 - EXTERIOR IMPROVEMENTS	T (000	26/	4.64
323100 SITE IMPROVEMENTS	76,900	2%	4.64
328000 IRRIGATION	0	0%	0.00

	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
329000 LANDSCAPING	2,000	0%	0.12
DIVISION 33 - UTILITIES 330000 UTILITIES	0	0%	0.00
DIRECT COST	3,130,846	100%	188.90

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 02 - EXISTING CONDITION	S			
022820 ASBESTOS REMEDIATION				
Hazardous Waste Removal - Allow	1	LS	10,000.00	10,000
				10,000
024116 BUILDING DEMOLITION				
Building Exterior Remove Existing: Wind. @ new GF entry	1	EA	150.00	150
Masonry sill @ new GF entry GF door @ new ramp	1 1	LOC EA	300.00 150.00	300 150
GF main entry dr & frame - sgl 1st Flr E & W entry dr & frame - dbl	2 2	EA EA	225.00 275.00	450 550
1st Fir W entry storefront	48	SF	7.00	336
Wind @ kit addition	2	EA	250.00	500
Masonry sill @ new kit dr Misc. ext. demolition	2 1	LOC LS	300.00 1,000.00	600 1,000
Building Interior Remove Existing:				
Mise. int. demolition	15,624	GSF	4.00	62,496
				66,532
DIVISION 03 - CONCRETE				
033000 CAST IN PLACE CONCRETE				
GF South Entry Addition: Wall ftg 2' x 1' x 36'	3	CY	350.00	1,050
Frost wall 1' x 4' x 36'	6	CY CY	850.00	4,675
5" Slab on grade	190	SF	8.00	1,520
Tie fnd to exist	2	LOC	500.00	1,000
GF South Entry Canopy: Canopy col ftg & pier	4	EA	775.00	3,100

Prepared by: A. M. Fogarty & Associates, Inc. ARLINGTON CENTRAL SCHOOL SENIOR CENTER STUDY 4-11-164/12/20161:56 PM Arlington Central School Senior Center

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Kitchen Addition:		~		
Wall ftg 2' x 1' x 21'	1.5	CY	350.00	525
Foundation wall 1' x 8' x 21' Metal deck fill	6.5 490	CY SF	980.00 6.00	6,370 2,940
Egress stair ftg	490	EA	400.00	2,940
4" Concrete stoop	30	SF	8.00	240
Crawl space - Slab on grade	490	SF	6.00	2,940
Tie fnd to exist	2	LOC	500.00	1,000
Misc. Foundations:				
GF North Entry Ramp	W /Site Impr			
Ground Floor Patio	W /Site Impr			
1st Floor Deck	W /Site Impr	rovements		
Infill GF slab @ plumbing trenching	1,000	SF	12.00	12,000
Metal Deck Fill @ Infill Opening:				
Function rm opening	76	SF	8.00	608
Infill stair opening		NIC		
Infill shaft opening		NIC		
Equipment pads	1	LS	2,500.00	2,500
New Metal Pan Stair fill:				
Main lobby GF - 1st	1	FLT	1,200.00	1,200
East lobby GF - 1st	1	FLT	1,000.00	1,000
				43,868
				43,000
DIVISION 04 - MASONRY				
042000 MASONRY*				
New Interior CMU:		NIC		
Cut & patch Interior masonry	1	LS	10,000.00	10,000
Exterior Masonry Restoration		NIC		
New Masonry Veneer:				
GF South Entry Addition		NIC		
GF South Entry Canopy col base	4	EA	750.00	3,000
GF North Entry Ramp	254	NIC	40.00	10.160
				10,160 800
Kitchen Addition 12' H Masonry flashing	254 1	SF LS	40.00 800.00	

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Cut in Repair Ext Masonry Openings:				
GF wind - new ext. dr open.	1	LOC	1,250.00	1,250
1st Flr wind - new kit open	2	LOC	1,250.00	2,500
Infill Ext Masonry Openings - Complete: GF Dr - new wind	1	LOC	1,500.00	1,500
				29,210

DIVISION 05 - METALS

055000 MISCELLANEOUS & ORNAMENTAL IRON*

New Stair & Rails :				
Main lobby GF - 1st	1	FLT	35,000.00	35,000
East lobby GF - 1st	1	FLT	20,000.00	20,000
Lingrado Int Stain				
Upgrade Int Stair:	1	ELT	5 000 00	5 000
West lobby GF- 1st	1	FLT	5,000.00	5,000
East lobby 1st - upper levels		NIC		
Mechanical room stairs		Remain		
New Galv. Ext Stair & Rails:				
Kitchen egress	1	FLT	9,500.00	9,500
Op partition support frame	28	LF	150.00	4,200
Misc. int metals	16,574	GSF	1.00	16,574
				90,274
				90,274
051200 STRUCTURAL STEEL FRAMING				
Shore & Frame new Int wall opening:				
Kitchen @ wall rem'l	26	LF	225.00	5,850
1st flr @ new stair open	1	LOC	3,500.00	3,500
	-	200	2,200.000	2,200
1st Floor Frame:				
Ist Floor Frame:				
Kitchen Addition	490	GSF	20.00	9,800
	490 76	GSF SF	20.00 25.00	9,800 1,900
Kitchen Addition	., .			,
Kitchen Addition Infill function rm opening	., .	SF		,

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Flat Roof Frame: GF South Entry Addition	190	GSF	20.00	3,800
GF South Entry Canopy	100	GSF	20.00	2,000
Kitchen Addition	490	GSF	20.00	9,800
Seismic upgrades		NIC		
Dunnage & spring isol @ relocated RTU	1	LS	10,000.00	10,000
				46,650
053100 STEEL DECKING				
Floor Deck:				
Kitchen Addition	490	GSF	6.00	2,940
Roof Deck:				
GF South Entry Addition	190	GSF	6.00	1,140
GF South Entry Canopy	100	GSF	6.00	600
Kitchen Addition	490	GSF	6.00	2,940
				7,620
054000 COLD FORMED METAL FRAM	ING			
Ext. wall frame :				
GF South Entry Addition - 20%	72	SF	12.00	864
Kitchen Addition - 100%	254	SF	12.00	3,048
Ext. wall 1/2" Dens Glass Sheathing	326	SF	4.50	1,467
3" Soffit frame		~ ~ ~		
GF South Entry Canopy :	100	GSF	10.00	1,000
				6,379

DIVISION 06 - WOOD, PLASTICS & COMPOSITES

061000 ROUGH CARPENTRY

Addition Exterior Wall Blocking:

Arlington Central School Senior Center

4/11/2016

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
			1.50	100
GF South Entry Addition - 20%	72	SF	1.50	108
Kitchen Addition - 100%	254	SF	1.50	381
Addition Roof Blocking:				
Fascia	83	LF	12.00	996
Base flashing	97	LF	12.00	1,164
Interior blocking	16,574	GSF	0.35	5,801
Misc. rough carpentry	16,574	GSF	0.75	12,431
				20,880
062000 FINISH CARPENTRY				
New Interior Wood Trim:				
MDF wall base	500	LF	5.50	2,750
Corridor & lobby chair rail	250	LF	35.00	8,750
Door trim		NIC		
Misc interior trim	16,574	GSF	0.50	8,287
Restore Interior Wood Trim:				
Window Sill and apron		W / 085000		
Window trim		W / 085000		
Misc interior trim	1	LS	5,000.00	5,000
Casework:				
Vestibule bench (2 EA)	15	LF	400.00	6,000
Lav Counter top (2 EA)	23	LF	265.00	6,095
Main lobby and entry	1	LS	5,000.00	5,000
Kitchenette (2 loc)	30	LF	500.00	15,000
West lobby wd shelving	1	LS	1,500.00	1,500
East lobby wd shelving	1	LS	1,500.00	1,500
COA service center	6	LF	300.00	1,800
Reception desk		NIC		
Office counters	1	LS	15,000.00	15,000
Activity room casework	2	EA	5,000.00	10,000
Fireplace surround -complete	1	EA	3,500.00	3,500
Misc. casework allowance	1	LS	10,000.00	10,000

*Kitchen casework is included w/ 119000

100,182

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT U	UNIT COST	TOTAL
DIVISION 07 - THERMAL & MOISTURE	PROTECTION			
071000 AIR/VAPOR BARRIER, WATERPI	ROOF. & CAULI	KING*		
Additions:				
Bit foundation dampproofing	228	SF	2.00	456
Ext joint sealants	1	LS	2,500.00	2,500
Addition applied air & vapor barrier Control/expansion joints	326 1	SF LS	5.50	1,793
Control/expansion joints	1	LS	2,500.00	2,500
Int. joint sealants	16,574	GSF	0.20	3,315
				10,564
075400 ROOFING AND FLASHING*				
Membrane Roof System:				
GF South Entry Addition	190	SF	22.00	4,180
GF South Entry Canopy	100	SF	22.00	2,200
Kitchen Addition	490	SF	22.00	10,780
Membrane flashing	1	LS	1,500.00	1,500
Fascia GF South Entry Addition	30	LF	35.00	1,050
Base flashing GF South Entry Addition	22	LF	28.00	616
Fascia GF South Entry Canopy	32	LF	35.00	1,120
Fascia Kitchen Addition	21	LF	35.00	735
Base flashing Kitchen Addition Misc flashing	75 1	LF LS	28.00 2,500.00	2,100 2,500
whise mashing	1	LS	2,300.00	2,500
				26,781
072100 BUILDING INSULATION				
Additions:				
Rigid Slab Insul	190	SF	3.50	665
2" Rigid Insul foundation	228	SF	3.00	684
Kitchen crawl space clg	490	SF	3.50	1,715
Ext wall insul	326	SF	3.00	978
Renovation :				
Spray foam 6" @ brick fnd wall 3' H	1,662	SF	10.00	16,620
*Foundation wall with limited crawl space ac				
Ceiling of top floor	7,812	SF	5.00	39,060
Kitchen roof-addition	W / re	oofing sys		

Arlington Central School Senior Center4/11/2016				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Kitchen roof West entry soffit	270 126	SF SF	5.00 5.00	1,350 630
Fire stopping *Excludes reinsulating exterior envelope	16,574	GSF	0.20	3,315
				65,017
074213 SIDING AND TRIM				
GF South Entry: Wall cladding 20% Canopy col cladding Canopy soffit panel	72 4 100	SF EA SF	75.00 1,500.00 35.00	5,400 6,000 3,500
				14,900
DIVISION 08 - OPENINGS				
085213 WINDOWS				
Existing Windows: Replace unit w/ failed seal -allow GF int storm sash 1st int storm sash (NIC W elev) Remove int wd trim, seal & reinstall trim Misc repairs -allow	15 31 33 72 1	EA EA EA LS	1,700.00 750.00 750.00 500.00 5,000.00	25,500 23,250 24,750 36,000 5,000
New Windows: Kitchen Addition GF North Entry Ramp	1 1	EA EA	1,500.00 1,500.00	1,500 1,500
				117,500
082500 DOOR OPENING ASSEMBLIES	3			
New Exterior Alum Door, Frame, Hdw, Gl GF South Entry Addition - dbl GF North Entry Ramp -sgl 1st Floor West Entry - dbl 1st Floor Deck-sgl 1st Floor East Entry - dbl	ass & Glazing: 1 1 1 1 1 1	EA EA EA EA	8,000.00 4,000.00 8,000.00 4,000.00 8,000.00	8,000 4,000 8,000 4,000 8,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
New Exterior Storefront System:				
GF South Entry Addition	246	SF	85.00	20,910
GF North Entry Ramp	10	NIC	05.00	4 000
1st Floor West Entry	48	SF	85.00	4,080
New Interior Alum Door, Frame, Hdw,	Glass & Glazing:			
GF South Entry Addition - sgl	2	EA	3,500.00	7,000
1st Floor West Entry - dbl	1	EA	7,200.00	7,200
1st Floor East Entry - dbl	1	EA	7,200.00	7,200
New Interior Storefront System:				
GF South Entry Addition	12	SF	80.00	960
1st Floor West Entry	63	SF	80.00	5,040
New Exterior HM Door, Frame, Hdw,	Glass & Glazing:			
Kitchen - sgl	1	EA	1,600.00	1,600
New Interior Door, Frame, Hdw, Glass	& Glazing - Allow			
Mechanical - sgl	2	EA	1,050.00	2,100
Stair - sgl	3	EA	2,750.00	8,250
Toilet room sgl user	3	EA	1,000.00	3,000
Toilet room multi user	4	EA	1,000.00	4,000
Program space - sgl	8	EA	1,250.00	10,000
Program space - dbl	1	EA	2,500.00	2,500
Kitchen - sgl	3	EA	1,100.00	3,300
Office suite - sgl	4	EA	1,250.00	5,000
Office - sgl	8	EA	1,250.00	10,000
Storage - sgl Storage - dbl	4	EA EA	950.00 1,400.00	3,800 5,600
C C		2.1	1,100.000	0,000
HM Window and Sidelight Frame, Gla Door sidelight (1'-6" x 7' - 10 EA)	ss & Glazing - Allow: 105	SF	75.00	7,875
Window (6'x4' H - 4 EA)	96	SF	75.00	7,873
				158,615
	~			
083313 COILING COUNTER DOOR	8			
Allow:				
Kitchen	1	EA	3,500.00	3,500
Office		NIC		
				2 500
				3,500

			4/11/2016
QUANTITY	UNIT	UNIT COST	TOTAL
1	NIC LS	5,000.00	5,000
1 082500 & 085000	LOC NIC	5,500.00	5,500
			10,500
			0
1	LS	1,500.00	1,500
			1,500
MS			
326	SF NIC NIC	2.20	717
500 500 500 4,696 15 624	SF SF SF SF	16.00 15.00 8.50 10.50	8,000 7,500 4,250 49,308 15,624
	1 1 082500 & 085000 1 MS 326 500 500	MS 1 LS 1 LOC NIC 082500 & 085000 1 LS MS MS 326 SF NIC NIC NIC S00 SF 500 SF 500 SF 500 SF 500 SF 500 SF	I LS 5,000.00 I LOC 5,500.00 NIC 5,500.00 NIC 5,500.00 1 LS 1,500.00 MS MS 326 SF 2.20 NIC 500 SF 16.00 500 SF 15.00 500 SF 15.00 500 SF 15.00 500 SF 8.50 4,696 SF 10.50

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Gyp Ceilings:	100	COL	0.50	1.005
GF South Entry Addition	190	GSF	9.50	1,805
Reno Gyp ceiling - 25% Allow for Soffit and Transition	3,906 16,574	SF GSF	9.50 0.50	37,107 8,287
*Gypsum wallboard includes tape & joint		USF	0.30	0,207
				132,598
093000 CERAMIC TILE *				
Toilet Room (7 EA) :			• • • • •	
Porcelain floor tile - thin set	532	SF	20.00	10,640
Porcelain wall tile - 4'	960	SF	18.00	17,280
Marble threshold Waterproofing membrane /crack sup.	7 532	LOC SF	65.00 8.00	455 4,256
*Thin set installation	552	51	8.00	4,230
Kitchen:				
Quarry Tile - this set	760	SF	18.00	13,680
QT Base	200	LF	9.50	1,900
Wall tile 4'	750	SF	18.00	13,500
Porcelain Tile:				
GF main lobby & vestibule	730	SF	23.00	16,790
West lobby	674	SF	23.00	15,502
				94,003
				,
096519 RESILIENT FLOORING*				
Floor prep	244	SF	1.50	366
Fitness rm flooring - cushioned vinyl	244	SF	13.00	3,172
Resilient Base	1	LS	3,500.00	3,500
*Excludes mechanical / storage rm flooring	g - shown grey			
Wood Stair Finishes -New Stair & Rails :				
Main lobby GF - 1st	1	FLT	7,500.00	7,500
East lobby GF - 1st	1	FLT	3,500.00	3,500
Rubber Stair Finishes- Upgrade Int Stair:				
West lobby GF- 1st	1	FLT	1,350.00	1,350
East lobby 1st - upper levels		NIC		
Mechanical room stairs		NIC		

Arlington C	entral School	Senior Center	
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4/11/2016

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
099100 PAINTING*				
Exterior Painting @ :	1	IC	1 000 00	1 000
GF South Entry Addition GF South Entry Canopy	1	LS LS	1,000.00 1,000.00	1,000 1,000
Kitchen Addition	1	LS	1,000.00	1,000
*Excludes general exterior upgrades			,	<u> </u>
Interior painting - walls and ceiling Vinyl graphics & wall covering	16,574	SF NIC	3.00	49,722
				52,722
095100 ACOUSTICAL CEILINGS*				
Acoustical Ceiling Systems:				
Kitchen 24 x 24 x 2/4" ACT	760	SF	6.00	4,560
Reno 24 x 24 x 3/4" ACT - 75% Allow for feature and specialty ceilings	11,718 1	SF LS	5.00 20,000.00	58,590 20,000
				83,150
095900 WOOD FLOORING				
Wood floor - infill:				
Function rm	76	SF	20.00	1,520
Wood Floor - Patch & Refinish:				
Function rm	1,800	SF	4.00	7,200
1st E. lobby	437	SF	4.00	1,748
1st Hall Library	934 625	SF SF	4.00 4.00	3,736 2,500

096800 CARPETING

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Cornet Tile (VCT Demoine):				
Carpet Tile (VCT Remains): Corridor	1,234	SF	5.00	6,170
Office	4,734	SF	5.00	23,670
Activity rm	1,510	SF	5.00	7,550
Living rm	331	SF	5.00	1,655
Misc. floor prep	1	LS	2,500.00	2,500
				41,545
098433 ACOUSTICAL WALL PANELS				
Fabric wrapped wall panel - allow				
Main lobby	200	SF	36.00	7,200
West lobby	200	SF	36.00	7,200
East lobby	200	SF	36.00	7,200
Function rm	600	SF	36.00	21,600
				43,200
DIVISION 10 - SPECIALTIES				
101000 OPERABLE PARTITION				
28' x 10' Operable partition (1 loc)	280	SF	115.00	32,200
				32,200
				- ,
101400 SIGNAGE				
Interior Signage Exterior Signage	16,574 1	GSF LS	0.20 7,500.00	3,315 7,500
			·	
				10,815

102113 TOILET COMPARTMENTS

Floor/Wall Mtd. Solid Plastic Toilet Partition - Allow:

Arlington Central S	School	Senior	Center
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4/11/2016

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Standard	5	EA	1 200 00	6,000
Barrier free	3	EA EA	1,200.00 1,500.00	6,000
Urinal screen	4 2	EA EA	325.00	650
	2	LIX	525.00	050
				12,650
102800 TOILET ACCESSORIES				
Paper towel dispenser / disposal	7	EA	225.00	1,575
Electric hand dryer	16	NIC	250.00	5 (00
Mirrors - framed	16	EA	350.00	5,600
Soap dispenser Sanitary prod disposal	16 6	EA EA	40.00 60.00	640 360
Grab bars toilet	14	EA EA	85.00	1,190
Coat hook	14	EA	18.00	216
Toilet tissue dispenser	12	EA	42.00	504
Diaper deck	2	EA	500.00	1,000
				11,085
109000 MISCELLANEOUS SPECIAI	LTIES			
Lobby tack board	3	EA	750.00	2,250
Elec fireplace	1	EA	2,000.00	2,000
Fire extinguisher & cab	6	EA	475.00	2,850
Corner Guards	1	LS	1,500.00	1,500
Janitor shelf w/mop holder	1	EA	150.00	150
Misc. special ties	1	LS	500.00	500
				9,250
DIVISION 11 - EQUIPMENT				,
119000 EQUIPMENT				
Exercise equipment		NIC		
AV equipment		NIC		
Kitchen equipment	1	LS	100,000.00	100,000

Residential Appliances:

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Health office GF kitchenette	1 2	LS EA	1,200.00 2,500.00	1,200 5,000
				106,200
DIVISION 12 - FURNISHINGS				
129000 FURNISHINGS				
Surface Entry mat GF Window shades 1st flr Window shades Function rm motor op black out shade	4 31 41 7	EA EA EA EA	1,500.00 125.00 125.00 750.00	6,000 3,875 5,125 5,250
				20,250
DIVISION 14 - CONVEYING EQUIPMEN	ЛТ			
142400 ELEVATORS & LIFTS*		REMAINS		
				0
DIVISION 21 - FIRE SUPPRESSION				
210000 FIRE SUPPRESSION*				
Rework exist sys	15,624	GSF	3.50	54,684
New System @: GF South Entry Addition Kitchen Addition Kitchen Renovation	190 490 270	GSF GSF GSF	9.00 9.00 9.00	1,710 4,410 2,430
				63,234
DIVISION 22 - PLUMBING 220000 PLUMBING*				
Demolition & disconnects	1	LS	2,500.00	2,500

Prepared by: A. M. Fogarty & Associates, Inc. ARLINGTON CENTRAL SCHOOL SENIOR CENTER STUDY 4-11-164/12/20161:56 PM Arlington Central School Senior Center

4/11/2016

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
New Fixtures -allow:				
Water closet	16	EA	1,800.00	28,800
Urinal	2	EA	1,500.00	3,000
Wall hung lavatory	8	EA	1,250.00	10,000
Ctr lavatory	8	EA	1,050.00	8,400
Water cooler	2	EA	3,200.00	6,400
Kitchenette/program sink	4	EA	1,300.00	5,200
MOP sink	2	EA	1,300.00	2,600
Fixture rough in	42	EA	3,800.00	159,600
Kitchen rough in	1	LS	10,000.00	10,000
Drainage -allow:		NIC		
Toilet RM Floor drain Kitchen Floor drain	n	NIC EA	1,200.00	2,400
Vestibule & canopy roof drainage	2 2	EA EA	1,200.00	2,400
	2	LA	1,200.00	2,400
Equipment: Sewage ejector		NIC		
Sewage ejector		Nie		
Gas piping	1	LS	2,500.00	2,500
Gas water heater	1	LS	7,500.00	7,500
Water heater valve and trim	1	LS	2,500.00	2,500
Underground Water Service:		EXISTING		
Misc. Plumbing	1	LS	5,000.00	5,000
As built, permit and test	1	LS	3,000.00	3,000
				261,800
DIVISION 23 - HVAC				
230000 HVAC*				
HVAC -reno	15,624	GSF	40.00	624,960
HVAC:				
GF South Entry Addition	190	GSF	40.00	7,600
Kitchen Addition	490	GSF	40.00	19,600
Kitchen Renovation	270	GSF	40.00	10,800
Relocate chiller to kitchen roof Elev shaft Ventilation	1	LS Existing	7,500.00	7,500
				670,460

Arlington Central School Senior Center

4/11/2016

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 26 - ELECTRICAL				
260000 ELECTRICAL*				
Electrical - reno	15,624	GSF	30.00	468,720
Electrical: GF South Entry Addition GF South Entry Canopy GF North Entry Ramp Kitchen Addition Kitchen Renovation 1st Floor Deck Ground Floor Patio	190 100 1 490 270 1 1	GSF GSF LS GSF GSF LS LS	$\begin{array}{r} 30.00\\ 30.00\\ 2,500.00\\ 30.00\\ 30.00\\ 2,500.00\\ 2,500.00\end{array}$	5,700 3,000 2,500 14,700 8,100 2,500 2,500
				507,720
DIVISION 31 - EARTHWORK 310000 EARTHWORK Earthwork @:				
GF South Entry Addition GF South Entry Canopy GF North Entry Ramp Kitchen Addition 1st Floor Deck Ground Floor Patio Ground slab @ new plumbing	1 1 1 1 1 1	LS LS LS LS LS LS	3,000.00 1,500.00 3,000.00 5,000.00 2,500.00 2,500.00 2,500.00	3,000 1,500 3,000 5,000 2,500 2,500 2,500 2,500
311000 SITE PREPARATION & CLEARIN Misc. Site Preparation @: GF South Entry Addition & Canopy GF North Entry Ramp Kitchen Addition 1st Floor Deck Ground Floor Patio	NG 1 1 1 1 1	LS LS LS LS LS	2,000.00 2,000.00 2,000.00 2,000.00 2,000.00	2,000 2,000 2,000 2,000 2,000

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Phasing/occupancy/logistics	1	LS	2,500.00	2,500
				12,500
DIVISION 32 - EXTERIOR IMPROVEM	1ENTS			
323100 SITE IMPROVEMENTS				
Pavement patch @ utilities		NIC		
GF South Entry Addition: Pavers to match 8" Gravel base *Assumes entry drop off drive to remain	200 5	SF CY	20.00 28.00	4,000 140
GF North Entry Ramp: Conc ramp wall (NIC masonry veneer) Guardrail Wall rail Approach - 4" Concrete walk Ramp slab 8" Gravel base	72 72 40 200 305 13	LF LF LF SF SF CY	125.00 275.00 115.00 8.00 8.00 35.00	9,000 19,800 4,600 1,600 2,440 438
Ground Floor Patio: Conc retaining wall Pavers 8" Gravel base Replace Bit foundation dampproofing	9 344 8.5 1	LF SF CY LS	300.00 30.00 35.00 1,000.00	2,700 10,320 298 1,000
Kitchen Addition: Approach - 4" Concrete walk 8" Gravel base	100 3	SF CY	8.00 45.00	800 135
1st Floor Deck: Found wall Crawl space gravel PT deck framing Trex decking Guard rail Misc trim & finishing	32 258 258 258 258 32 1	LF SF SF SF LF LS	115.00 2.00 15.00 8.00 250.00 1,500.00	3,680 516 3,870 2,064 8,000 1,500
Misc Site improvements -allowance		NIC		
				76 900

76,900

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
328000 IRRIGATION				
Irrigation system		NIC		
				0
329000 LANDSCAPING				
Restore disturbed areas Planting -allowance	1	LS NIC	2,000.00	2,000
				2,000
DIVISION 33 - UTILITIES				
330000 UTILITIES				
Water Supply: Fire Service		Damaina		
Domestic Service		Remains Remains		
Sanitary:				
Sanitary service Kitchen grease trap		Remains NIC		
Site Drainage :				
GF South Entry Addition		NIC		
GF North Entry Ramp		NIC		
Ground Floor Patio		NIC		
Fuel Distribution:		Remains		
Electrical:		Darreit		
Transformer pad Generator pad		Remains NIC		
		1.10		

0

PROJECT:	Arlington Central School Senior Center
LOCATION:	Arlington, MA
CLIENT:	Sterling Associates, Inc
DATE:	11-Apr-16

ALTERNATES

OPTION NO. 1 - REVISED KITCHEN LAYOUT

(\$140,439)

OPTION NO. 1 - REVISED KITCHEN LAYOUT

Delete: Kitchen Addition	-189	GSF	100.00	-18,900
Dunnage & spring isol @ relocated RTU Relocate chiller to kitchen roof	-1 -11	LS LS	10,000.00 7,500.00	-10,000 -82,500
Ground Floor Patio	-1	LS	8,365.00	-8,365
Add: 1st Floor Deck	82	GSF	75.00	6,150
SUBTOTAL GENERAL CONDITIONS		0 %)	-113,615 0
SUBTOTAL GENERAL REQUIREMENTS		2.5 %)	-113,615 -2,840
SUBTOTAL P&P BOND AND INSURANCE		1.85 %)	-116,455 -2,154
SUBTOTAL PERMIT		0 %)	-118,610 0
SUBTOTAL FEE		4 %)	-118,610 -4,744
SUBTOTAL				-123,354

Prepared by: A. M. Fogarty & Associates, Inc. ARLINGTON CENTRAL SCHOOL SENIOR CENTER STUDY 4-11-16

4/11/2016

DESCRIPTION	QUANTITY	UNIT UNIT COST	TOTAL
DESIGN CONTINGENCY		10 %	-12,335
SUBTOTAL ESCALATION		3.5 %	-135,690 -4,749
TOTAL ALTERNATE NO. 1			-140,439

 SIANI ENGINEERING, INC.

 43 Bradford Street, Concord, MA 01742-2972 • Tel: 781-398-2250 • Fax: 781-398-2280

January 29, 2016

Bill Sterling, Principal Sterling Associates, Inc. 19 Bishop Allen Drive Cambridge, MA 02139

DRAFT

RE: **ARLINGTON SENIOR CENTER RENOVATIONS** MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION SYSTEMS **EXISTING CONDITIONS & RECOMMENDATIONS**

Dear Bill.

Thank you to Christine, Fred, and you for the helpful guided tours and stream of helpful information. There are challenges and opportunities ahead. Given the long term nature of this buildings functions our recommendations primarily follow the logic of lowest life cycle cost over 30 years or more. We expect the building will still be serving the community for well longer and therefore benefits from lowest costs over time.

The following describes the mechanical systems, their existing conditions and recommendations for system replacements and or renovations to match intended architectural renovations. We assume the renovation project is to be completed in a single construction project in order to minimize costs, time and disruption. This focus of this schematic/study is on systems that will serve building areas for the senior center which occupies only a portion of the lower two floors of the building and also provides some related information on central building systems.

Existing mechanical, plumbing and most electrical systems are all from the 1984 renovation. The majority of the fire alarm and fire suppression systems were installed in 1984 but it appears that additional work on both was completed more recently. Both the suppression and alarm systems are in good condition and can accommodate the renovations.

AREA OF RENOVATION

Total floor area to be renovated is approximately 18,200 SgFt all on the first two floors. The project may also include a expanded kitchen (commercial standards) adding 600 SqFt.

CODE

At this time we have understood that the level of renovations will not trigger a requirement to bring the rest of the building up to current code standards. However, all new systems installed to serve the renovated areas will have to meet current codes.

FIRE PROTECTION

Existing Condition

The majority of the existing fire suppression system was installed in 1984. The fire suppression water service entry and primary valving appears to have been replaced along with the potable

ARLINGTON SENIOR CENTER RENOVATIONS MEP & FP SYSTEMS

Page 2 of 5

water meter within the last 10 years. The system was designed to NFPA-13 standards at the time which are largely identical to current code.

Fire Protection System Renovations

- 1. A new sprinkler head layout will need to be provided of all areas of renovation. The existing system adequately supports this work. Approximately 40% of the piping in these renovated areas can be retained.
- 2. Commercial Kitchen: Fire suppression in kitchen hood with alarm tie-ins.

PLUMBING

Existing Condition

A new potable water service was provided to the building along with meters and valving during the last 10 years. Domestic hot water (DHW) is provided by a central DHW system and new gas fired tank in the basement including recirculation. The system appears in good condition. Bathrooms are not all fully accessible and there is one new bathroom set of fixtures recently installed that could be considered for reuse.

Plumbing System Renovations

The following are recommended system replacements and renovations to match the architectural renovations:

- 1. Provide all new plumbing fixtures in bathrooms and kitchens; all to match or exceed code required low flow requirements. Tank type toilets. Floor drains for bathrooms with 2 or more toilets or urinals.
- 2. Connect to existing waste, vent, and potable piping systems.
- 3. Insulate all DHW piping old or new in the renovated areas.
- 4. Balance existing DHW recirculation system to accommodate changes.
- 5. Commercial Kitchen:
 - Grease trap
 - Triple bowl sink
 - Hand wash sink
 - Floor drains (2)
 - Under sink commercial dishwasher with temperature booster

MECHANICAL

Existing Condition

A pair of gas fired cast iron sectional hot water boilers in the basement provide heat to two primary systems: a multi-zone perimeter baseboard heating system and hot water serving heating coils in most but not all of the air handling units. Large and small air handling units in interior closets and the basement mechanical room provide air conditioning and in many cases heating as well. The air handling units each include fans to move air through the duct systems to the spaces and also include refrigerant systems and coils that are connected by a central piping loop to the new outdoor fluid cooler where the heat of the building is ejected to the atmosphere in summer.



Piping systems throughout the building are mostly from the 1984 renovation and in fair condition. HVAC controls throughout the building are provided by a pneumatic system with some digital thermostats now being used for zone control.

Mechanical System Renovations

We assume the thermal envelope of the building is not being improved by the adding insulation to the exterior walls therefore the basic system capacity of existing systems matches what will be required. A significant exception is the requirement for additional fresh air ventilation top meet current codes.

The following are recommended system replacements and renovations to match the architectural renovations:

- 1. All of the air handling units serving the renovation areas are past normally expected life spans and should be replaced with equipment sized to serve the renovated areas. Units are fluid cooled A/C units each equipped with hydronic heating coil, refrigerant system, fan section, MERV-12 filters, and connection to cooling hydronic loop, heating hydronic loop, fresh air supply and DDC controls.
 - Quantity of new AHU's = 8.
 - Total cooling capacity = 42 Tons.
- 2. Duct work, diffusers and grilles should be replaced in all areas.
- 3. Current ventilation codes must be used to size fresh air requirements and some additional ventilation will need to be provided as compared to the existing systems.
 - All new ventilation duct work to connect existing fresh air supply in basement to all new AHU's; 2000 cfm.
 - · New matching exhaust system with exhaust blower and duct work; 2000 cfm
- 4. Reuse the majority of the existing perimeter heating system.
 - Provide all new zone valves and control.
 - Provide all new drain valves and vents.
 - Rework the majority of baseboard enclosure to match new plans and provide end caps and splice plates where needed; 70% of existing.
 - Add baseboard enclosure and end caps where needed; 30% of existing
- 5. Central piping systems will need some limited work to adapt to the new AHU's serving the renovated senior center including all new valves, sensors and flexible connections.
 - Quantity of new AHU's = 8.
- 6. Replacing the entire set of automatic temperature and ventilation controls for the building with a new direct digital controls (DDC) system is strongly recommended and would logically be done at the time of installing new HVAC for the senior center so that the control systems are compatible and integrated. This will provide significant energy savings for the building as a whole.
- 7. The existing boilers are both very inefficient. We recommend that the older boiler be removed from the boiler room and that a new high efficiency condensing mode boiler be added leaving the newer cast iron unit in place. The new boiler would be controlled using a fixed lead approach so most of the gas used will be burned at the higher efficiency. Sized



ARLINGTON SENIOR CENTER RENOVATIONS MEP & FP SYSTEMS

Page 4 of 5

the new boiler at around 80% of total design load building requirement This will provide significant energy savings for the building as a whole; likely at least 15% savings on gas for space heat.

- Demo existing boiler.
- Gas condensing mode boiler: 800,000 BTU/Hr.
- New close boiler piping, valves, hangers, and insulation.
- Side wall venting and combustion air intake.
- 8. Commercial Kitchen:
 - Range hood
 - Externally mounted exhaust fan
 - Make-up air system with fan duct work and exterior termination and interior grilles.
 - · Welded grease duct to externally mounted exhaust fan

ELECTRICAL

Existing Condition

<u>Power</u> Most of the electrical in the building dates from the 1984 renovation. Unfortunately the primary equipment manufacturer used in that work was Federal Pacific Electric Company (FPE). This company is no longer in business and is notorious for poorly performing equipment. In most cases no new work within these panels, load centers, disconnects can be performed without replacing the FPE equipment as well.

Lighting Most of the light fixtures in the building date from the 1984 renovation. Improvements in lamp type have been made to many of the fixtures. Lighting systems do not all meet current efficiency and code standards. Emergency lighting is provided by heads powered by remote battery packs and battery/light units.

<u>Fire Alarm</u> The fire alarm (FA) system is a Class-A addressable system with dial-out, and an enunciator panel in the entry lobby. The majority of the FA system was installed in 1984 and serves all areas. Additionally the fire alarm system panels have had an upgrade and a new addressable Fire Alarm Control Panel (FACP) has been installed.

<u>Security & IT</u> Security systems appear new and in excellent condition. Local IT was not investigated.

Electrical System Renovations

We assume the thermal envelope of the building is not being improved by the adding insulation to the exterior walls therefore the basic system capacity of existing systems matches what will be required. A significant exception is the requirement for additional fresh air ventilation top meet current codes.

The following are recommended system replacements and renovations to match the architectural renovations:

1. All new power systems: load centers, circuiting, connections to mechanical and lighting equipment, outlets and IT systems



ARLINGTON SENIOR CENTER RENOVATIONS MEP & FP SYSTEMS

Page 5 of 5

- 2. All new lighting based on LED fixtures, occupancy controlled switching, and daylight controls for perimeter rooms.
- 3. Reuse the battery powered emergency lighting with some additional units.
- 4. Reuse the existing fire alarm system and devices for all renovated areas, add additional units where required.
- 5. Retain existing security system which likely requires some attention to existing wiring that needs to be protected during construction.
- 6. Due to the safety concerns regarding the FPE equipment and assuming there has been no previous testing, we recommend that the main switch gear and load centers in the Boiler room be investigated using thermal imagery and for any new panel feeders consider replacing the FPE panel that they come from
- 7. The building can greatly benefit from all new outside lighting fixtures: each entry, (8) wall packs for sides, drive and back of building.

Please let us know of any questions you may have.

Sincerely, for NORIAN/SIANI ENGINEERING, INC.

Sergio F. Siani

Sergio F. Siani, LEED AP

SFS/klk

01/29/16 Re: 1508-6-Exec Summary.doc

The following is a written summary of our findings regarding the Central School building in Arlington, MA. The focus of this report is on those parts of the building that are likely to be retained for adaptive reuse as CoA offices, a senior center and HHS offices. A more detailed spread sheet of architectural findings and an engineering analysis is attached to this report.

The existing building is comprised of an original 19th C. structure, a major 1984 renovation and subsequent minor modifications. The first two floors are to be altered for reuse as a senior center and various town offices. The upper 3 floors are to continue to be rented as office space.

Building materials

The brick façade appears to be in good condition. The exterior windows are 1984 wood sash replacement windows with double pane glazing. Upper floors have interior storm sash that helps insulate the rooms significantly. However, lower floor windows do not have interior storm sash and were not sealed well in the rough opening around them, making them under-performing for energy conservation reasons. The slate roofing is currently functional, but is due for the routine 5 year repair and maintenance service, particularly at flashing areas.

The interior materials include vinyl composition tile (VCT) flooring in much of the building, wood flooring in the main hall and quarry tile flooring in the kitchen. Some of the VCT is in reasonable condition and may be reused. The wood flooring is in good condition and should be reused. The quarry tile flooring has cracked to such an extent that it violates the Board of Health requirements for kitchen use. Any planned expansion or relocation of the kitchen will necessitate all new quarry tile or porcelain tile flooring. Rest rooms have ceramic tile (CT) flooring and wall finish that is intact, but will be damaged by new fixture layouts that are likely to follow this report. New CT floor and wall finishes will be recommended in all the rest rooms.

The ceilings are generally painted Gypsum Wall Board (GWB), most of which are deteriorated. Significant patching and repair is recommended, particularly in areas where new partitions are proposed. There are stud walls that were added later along the northeast egress corridor on the ground floor. Recessed lighting in the ceilings is generally outdated and should be replaced with new energy efficient LED lighting. An energy audit is recommended to be undertaken in subsequent studies to detail the extent of replacement to be contemplated.

Building envelope

The existing building envelope would not be energy code compliant if it were to be built today. The walls have no insulation and no thermal breaks. The roof has no

19 Bishop Allen Drive Cambridge, MA 02139 Tel: (617) 441-7955 Fax: (617) 441-0978 admin@sterlingarchitects.com www.sterlingarchitects.com

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insulation. The floors have no insulation under them, nor a thermal break. The foundation wall is un-insulated. These existing conditions are allowed to remain unaltered as part of the proposed Alterations, Level 2 per Code. However, it is not recommended that the town maintain a building condition that is so expensive to operate.

Structural report

Most of the existing building consists of a wood frame floor over a 2'-4" high crawl space. The exterior walls consist of stone foundations and brick upper walls. Assuming that only Level 2 work is contemplated, no structural reinforcing is required for either gravity or lateral loads. The wood frame roof strength needs to be verified for added snow loads that result from increased insulation in the attic, if that is contemplated. It is possible to add photovoltaic solar collector roof panels, but the historical character of the slate roofed building may be compromised by such a venture.

Site report

The proposed building footprint is that of about 9,100 SF and the entire site includes parking for 70 cars, as well as a drop–off area and service loading with a capacity of 4 spaces. Satellite parking at the Masonic Temple across the street has 17 spaces. The shape of the lot and grading present a fairly simple design and construction approach. Vehicular accessibility to the site will remain off the main access road from Maple Street that faces onto a residential neighborhood. As a result recreation and open space amenities, such as a wheelchair accessible patio &/or deck at the north side of the property may be made accessible by removing the abandoned underground oil tanks and finishing that area in combination with a proposed egress ramp from a new exit from stair number 1 at the ground level.

Mechanical, Electrical, Plumbing & Fire Protection

Mechanical systems are operating well beyond their expected service life. All new HVAC systems are recommended. Electrical distribution panels need to be replaced. Lighting systems do not meet current energy code and should be replaced. Plumbing service lines and domestic hot water appear to be in good condition and may be reused because they are fairly recent installations. However, all water closets and lavatories are to be replaced. New plumbing fixture counts shall be calculated based on proposed new room layouts and capacities. Existing Fire Protection system of sprinkler head layouts will be modified for the proposed new room layouts, using existing water service lines. It is assumed that no fire alarm system upgrade is required. A more detailed report by Norian/Siani Engineering, Inc. is attached to this summary.

Building Code report

The IEBC (2009) Code report classifies the building as type IIIB, Unprotected combustible/non-combustible construction. The proposed use is a Mixed Use of B, Business, A-3, Assembly and S-2, Storage. The existing height of the building exceeds the maximum height of 2 stories for A-3 use. Further discussions are needed

19 Bishop Allen Drive Cambridge, MA 02139 Tel: (617) 441-7955 Fax: (617) 441-0978 admin@sterlingarchitects.com www.sterlingarchitects.com with the local Building Inspector to accept this condition, given that the A-3 Assembly Use is only on the 2^{-1} floor. However, the typical floor area is well within 9,500 SF limit required by Code for the proposed use. The proposed design will be Alterations-Level 2. The proposed building will have an excess of egress exit numbers and widths required by Code. However, both fire egress stairs open into lobbies where only one of the two is allowed by Code. At least one of them must lead directly outside. The proposed design extends stair number one (East stair) to the ground floor and directly outside by means of a new fire rated corridor. This new egress door would lead back up 54" to existing outside grade by means of a new ADA compliant wheelchair ramp.

Energy Code report

The stretch code does not apply to renovations to commercial buildings. The energy code for alterations to existing buildings only requires that existing wall cavities and attic spaces be insulated to the full depth of their existing capacity. As there is no wall cavity, no insulation is required there. However, it is prudent for the city to insulate the building foundation, attic roof and ground floor to the extent that there may be at least a 20 year or less payback in energy savings for that added investment.

Architectural Access Code Report

Full compliance with AAB regulations will be required for all public spaces. The ground floor, north exit is required to be accessible in order to qualify for Federal funding. It is assumed that the first floor west entrance is allowed to remain non-compliant with AAB regulations due to a historical preservation waiver.

Zoning

All zoning issues, including lot size, setbacks, open space requirements and building height, appear to be either compliant or accepted as existing non-conforming conditions in prior permitting. As a result, the site may be developed without the need of any zoning variances, using the existing footprint of about 9,100 SF. However, the proposed kitchen addition to the building may trigger site plan review as well as other permitting requirements such as the Historical Commission, Board of Health and Fire Department review.

Environmental assessment

On January 21, the building was inspected and found it may contain a variety of hazardous materials to be remediated, including vinyl asbestos tile (VAT), lead paint and PCB's. A separate study should be prepared directly for the town.

Development Schedule

Current plans for development may be to bid for construction in the fall of 2016.

ARLINGTON SENIOR CENTER BUILDING EXISTING CONDITIONS REPORT

			DESCR	IPTORS	D ACTIONS						
ITEM	COMPONENTS				IMMEDIATE	REPLACE	ADD	PREVENTIV E MAINT.	QUANTITY	UNIT PRICE	COST
SUBSTRUCTUR	Ε										
FOUNDATIONS											
FOUNDATION WALL	STONE	Uninsulated wall &	z crawl spa	ce							
WATER-PROOFING/	Unknown	 Calcification on b 	rick and sto	one below grade				Exterior			
FOUNDATION		•Evidence of dam	pness, mild	lew, and related problems				Application of	-		
		rotted and settling •Heavy efluoresce	floor near f nce @ right	ront. side storage room				Silicone to consider			
BASEMENT CONSTR	UCTION	<u>enteavv entuoresce</u>		Side Storage room		!		TCONSIGET	F - F		
BASEMENT SLAB @		•Uninsulated slab,		l break.							
mech. room		• Portion of slab is	uneven.								
			DESCR	PTORS		RECOMMENDEI	ACTIONS				
ITEM	COMPONENTS	TYPES	SIZE	NOTES:	IMMEDIATE	REPLACE	ADD	PM	QUANTITY	UNIT PRICE	COST
SHELL		I		1	1		1				
SUPER STRUCTURE											
GROUND FLOOR		Wood deck built		Uninsulated floor no							
FRAMING		up 2'-4" above		thermal break / 2x12							
		crawl space		Framing is settling, causing finishes on the ground floor							
		Slab on grade @ Basement		to crack							
EXTERIOR WALLS ABOVE GRADE	BRICK EXTERIOR/	1.Brick		• Areas of Brick require repointing	Clean, repoint and seal at base. Prepare and repoint						
	STONE SILLS	2. Stone		•Evidence of general	masonry, about 10% of						
				moisture penetration on masonry.	surface area						
EXTERIOR SOFFITS	Wood	Exterior soffits				Soffit system has					
					ceilings to obviate need for sprinklers above ceiling.	no air/vapor barrier add					
					sprinkiers above cennig.	insulation in all soffits. See below					
INSULATION	•Foundation wall			•Assume un-insulated wall			Provide new selective				
	• Wall			w/ air space to plaster fin.	insulate <u>below grade</u> 2'		insulation per				
	•Soffit			•No wall insulation exists	•None Proposed		economic return on				
	•Roof			•Un-insulated Soffits •Insulated Roof	•Add New •None Proposed		investment				

		DESCRIPTORS			RECOMMENDED ACTIONS						
ITEM	COMPONENTS	TYPES	SIZE	COVERAGE/ MATERIALS	IMMEDIATE	REPLACE	ADD	PM	QUANTITY	UNIT	COST
EXTERIOR WINDOWS						-			-1	DDICE	
WINDOWS	Existing wood sash-double pane			 No insulation around frames 10% of Windows in the building have broken seals 2nd Floor: Western exposure windows have 	Further Study Needed	Replace Damaged Window Panes					
STORM/SCREEN WINDOWS				interior storms/plexiglass			Interior Storm Sash to Ground Floor Windows & 2nd Fl. E, N, S				
EXTERIOR ENTRY DO	ORS										
NORTH (Into Basement)					ADA wheelchair access needed						
SOUTH	Aluminum/glass,	(1) Exterior hydraul doors, no weatherst air entry bad.	ic swing ripping,	(2) Interior Vestibule Sliding doors good condition	Repair Automatic Doors						
EAST	Wood Swing Doors										
WEST		Brass + Plate Glass I Oak Swing Interior		ADA wheelchair access not provided, doors do not seal	Replace Existing Pairs of Glass Doors						
ROOFING											
ROOF STRUCTURE		1. Wood Frame					Review seismic requirements				
ROOF COVERINGS		1.Sloped-Slate					Repair Damaged areas with 5-yr review				
		2. Copper Detailing & Flashing									
ROOF INSULATION/VENTS	Assume R19 1984 code compliance Vents are likely blocked							Roof area vents			
HATCHES	N/A										
CHIMNEY	Existing chimney used by boiler				Study Option of New Heating System						

	DESCRIPTORS										
ITEM	COMPONENTS	TYPES	SIZE	COVERAGE/MATERIALS	IMMEDIATE	RECOMMENDE	ADD	PM	QUANTITY	UNIT PRICE	COST
INTERIORS				•				•			<u>.</u>
STAIRCASES											
1 East Stair	Stl Pan + Conc	GWB walls		GOOD							
2 West Stair	Stl Pan + Conc	GWB walls		GOOD							
3 Main Stair	WD-Oak	GWB walls		GOOD							
4 West Entrance	Stone			GOOD							
5 East Entrance + Ramp	WD-Oak			GOOD							
G1 Boiler Room Stair	WD			GOOD							
G2 E Basement Stair	WD			GOOD							
G3 NE Ground Egress Stair	Concrete				Further study needed		ADA Ramp				
G4 Kitchen Stair	Steel			GOOD							
A1 Attic Stair East	Steel			GOOD							
A2 Attic Stair East	Steel			GOOD							
A3 Attic Stair Central	Steel			GOOD							<u> </u>
A4 Attic Stair West	Steel			GOOD							
Elevator	CMU + GWB Finish			GOOD							
Lift from 3rd to 4th	GWB										
CEILINGS									-		1
GROUND		GWB		Few areas of water damage/ Stains		Patch and Paint					
FIRST FLOOR		GWB									<u> </u>
SECOND FLOOR		GWB									
THIRD FLOOR		GWB									
FOURTH FLOOR		GWB		Water damage @ two skylights & @ brick interface Past water damage on north wall; roof was subsequently repaired							

			DESCR			RECOMMENDED					i
ITEM	COMPONENTS	TYPES	SIZE	NOTES:	IMMEDIATE	REPLACE	ADD	PM	QUANTITY	UNIT PRICE	COST
FLOOR FINISH											
BASEMENT	Unfinished concrete/VAT	Unfinished concrete/VAT		Mech./Storage- may have asbestos tile	HAZMAT remediation						
CENTRAL		VCT									
WEST		Carpet Tile									
EAST		VCT + Carpet									
GROUND FLOOR	2"x12" framing	Carpet/VCT/Tile (restrooms) Carpet Tiles		Oak entry needs refinishing	Further study settling structure						
FIRST		Wood-Oak Wood under carpet VCT Tile restrooms									
SECOND		Carpet									
THIRD		Carpet									
FOURTH		Carpet									<u> </u>
FLOOR FRAMING											<u> </u>
FIRST FLR FRAMING				Floor squeeks - possible structural damage	Further study needed						
SECOND FLR FRAMING THIRD FLR FRAMING											
FOURTH FLR FRAMING	1										
ATTIC FRAMING											
WALLS											1
GROUND		GWB/ Wood Base		Settling gap wall to ceiling and floor to walls	Further study needed						
FIRST FLOOR		GWB/ Wood Base									
SECOND FLOOR		GWB/ Wood Base									
THIRD FLOOR		GWB/ Wood Base/Brick									
FOURTH FLOOR		GWB/ Wood Base/Brick		water damage from skylights on brick							

			DESCRI	PTORS		RECOMMENDE	O ACTIONS				
ITEM	COMPONENTS	TYPES	SIZE	NOTES:	IMMEDIATE	REPLACE	ADD	PM	QUANTITY	UNIT PRICE	COST
INTERIOR DOORS		-									
GROUND		Solid Core Painted / Full Glaze Oak Clear									
FIRST FLOOR		Metal/Solid Oak Panel/ Glass									
SECOND FLOOR		Solid Core Painted / Full Glaze Oak Clear									
THIRD FLOOR		Solid Core Painted / Full Glaze Oak Clear									
FOURTH FLOOR		Solid Core Painted / Full Glaze Oak Clear									
BATHROOMS									1		
Ground Floor East Mens	Tile Floors, GWB Walls+ Ceiling	Counters, Sinks, Par Ventilation all poor	rititions,		DEMO						
Ground Floor East	Tile Floors, GWB	Ventilation all poor Counters, Sinks, Par	rititions,		DEMO						
Womens Ground Floor SW	Walls+ Ceiling	Ventilation all poor Good Condition	<u>condition</u>								ļ!
Gibullu Floor SVV	Walls + Ceiling	Good Condition									1
Ground Floor SE	Walls + Ceiling VCT Floors, GWB Walls + Ceiling	Good Condition Sinks, Partition, Flo									
First Floor Mens	Tile Floors, GWB		or	Floors have wax buildup/							1
First Floor Womens	Walls + Ceiling	counters DEMO		Bad Ventilation	Add New Exhaust Fans						
Second Floor Mens	Tile Floors + Base, GWB walls +	Excellent Condition									
Second Floor Womens	Ceiling										
Third Floor Mens											1
Third Floor Womens											
MAIN Kitchen											
	VULCAN				SALVAGE						
DISHWASHER	(2)				DEMO						ļ!
KITCHEN STOVE GARBAGE DISPOSAL	ELECTRIC None				DEMO						
	WD + P. Lam				DEMO				+		ļ]
	P. Lam				DEMO				+		
SINK	Residential				DEMO						
GND FLR E KITCHEN											
GND FLR E KITCHEN											
	WORKING										
MISCELLANEOUS											
					1	1	II Indata cogurity -	1			
SECURITI SISTEM	Existing 5 Cameras & doors						Update security & alarm system				
	w/alarms										

			DESCRI	IPTORS		RECOMMENDED	O ACTIONS				
ITEM	COMPONENTS	TYPES	SIZE	NOTES:	IMMEDIATE	REPLACE	ADD	PM	QUANTITY	UNIT PRICE	COST
SITE											
SITE IMPROVEMENTS											
DROP OFF	No covered						Add covered walkway				[
	walkway										
PARKING CAPACITY	70 cars distributed across all agencies				Further Study Needed						
PEDESTRIAN PAVING	Walkways to connect to drop off and adjacent walks-Needs re- grading	Wheelchair accessible grading / Brick pavers									
DUMPSTER PAD	Verify 4" Concrete slab on grade.										
FENCING	N/A	No privacy screening for dumpster		5' HT min. reccomended							
BUILT IMPROVEMENTS	Ferraces and patio (paving/ planter/ box/ benches), signage, street furniture Needs improvement					Back terrace (660 SF) brick, patio, signage, street furniture (6 benches), bar-b- que and trellis (450 sf) Front roof canopy @ drop off					
NATURAL IMPROVEMENTS	Landscaping/ planting in garden.				Further Study Needed		Healing Garden?				
			DESCRI	PTORS		RECOMMENDED	ACTIONS				
ITEM	COMPONENTS	TYPES	SIZE	COVERAGE/MATERIALS	IMMEDIATE	REPLACE	ADD	PM	QUANTITY	UNIT PRICE	COST
ZONING CONSTRAIN	TS	l		1	l						
PARKING											
TENANT CONSIDERATIONS FOR UPGRADES ALTERNATIVE											
DEVELOPMENT OPTIONS											

 SIANI ENGINEERING, INC.

 43 Bradford Street, Concord, MA 01742-2972 • Tel: 781-398-2250 • Fax: 781-398-2280

January 29, 2016

Bill Sterling, Principal Sterling Associates, Inc. 19 Bishop Allen Drive Cambridge, MA 02139

DRAFT

RE: **ARLINGTON SENIOR CENTER RENOVATIONS** MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION SYSTEMS **EXISTING CONDITIONS & RECOMMENDATIONS**

Dear Bill.

Thank you to Christine, Fred, and you for the helpful guided tours and stream of helpful information. There are challenges and opportunities ahead. Given the long term nature of this buildings functions our recommendations primarily follow the logic of lowest life cycle cost over 30 years or more. We expect the building will still be serving the community for well longer and therefore benefits from lowest costs over time.

The following describes the mechanical systems, their existing conditions and recommendations for system replacements and or renovations to match intended architectural renovations. We assume the renovation project is to be completed in a single construction project in order to minimize costs, time and disruption. This focus of this schematic/study is on systems that will serve building areas for the senior center which occupies only a portion of the lower two floors of the building and also provides some related information on central building systems.

Existing mechanical, plumbing and most electrical systems are all from the 1984 renovation. The majority of the fire alarm and fire suppression systems were installed in 1984 but it appears that additional work on both was completed more recently. Both the suppression and alarm systems are in good condition and can accommodate the renovations.

AREA OF RENOVATION

Total floor area to be renovated is approximately 18,200 SgFt all on the first two floors. The project may also include a expanded kitchen (commercial standards) adding 600 SqFt.

CODE

At this time we have understood that the level of renovations will not trigger a requirement to bring the rest of the building up to current code standards. However, all new systems installed to serve the renovated areas will have to meet current codes.

FIRE PROTECTION

Existing Condition

The majority of the existing fire suppression system was installed in 1984. The fire suppression water service entry and primary valving appears to have been replaced along with the potable

ARLINGTON SENIOR CENTER RENOVATIONS MEP & FP SYSTEMS

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water meter within the last 10 years. The system was designed to NFPA-13 standards at the time which are largely identical to current code.

Fire Protection System Renovations

- 1. A new sprinkler head layout will need to be provided of all areas of renovation. The existing system adequately supports this work. Approximately 40% of the piping in these renovated areas can be retained.
- 2. Commercial Kitchen: Fire suppression in kitchen hood with alarm tie-ins.

PLUMBING

Existing Condition

A new potable water service was provided to the building along with meters and valving during the last 10 years. Domestic hot water (DHW) is provided by a central DHW system and new gas fired tank in the basement including recirculation. The system appears in good condition. Bathrooms are not all fully accessible and there is one new bathroom set of fixtures recently installed that could be considered for reuse.

Plumbing System Renovations

The following are recommended system replacements and renovations to match the architectural renovations:

- 1. Provide all new plumbing fixtures in bathrooms and kitchens; all to match or exceed code required low flow requirements. Tank type toilets. Floor drains for bathrooms with 2 or more toilets or urinals.
- 2. Connect to existing waste, vent, and potable piping systems.
- 3. Insulate all DHW piping old or new in the renovated areas.
- 4. Balance existing DHW recirculation system to accommodate changes.
- 5. Commercial Kitchen:
 - Grease trap
 - Triple bowl sink
 - Hand wash sink
 - Floor drains (2)
 - Under sink commercial dishwasher with temperature booster

MECHANICAL

Existing Condition

A pair of gas fired cast iron sectional hot water boilers in the basement provide heat to two primary systems: a multi-zone perimeter baseboard heating system and hot water serving heating coils in most but not all of the air handling units. Large and small air handling units in interior closets and the basement mechanical room provide air conditioning and in many cases heating as well. The air handling units each include fans to move air through the duct systems to the spaces and also include refrigerant systems and coils that are connected by a central piping loop to the new outdoor fluid cooler where the heat of the building is ejected to the atmosphere in summer.



Piping systems throughout the building are mostly from the 1984 renovation and in fair condition. HVAC controls throughout the building are provided by a pneumatic system with some digital thermostats now being used for zone control.

Mechanical System Renovations

We assume the thermal envelope of the building is not being improved by the adding insulation to the exterior walls therefore the basic system capacity of existing systems matches what will be required. A significant exception is the requirement for additional fresh air ventilation top meet current codes.

The following are recommended system replacements and renovations to match the architectural renovations:

- 1. All of the air handling units serving the renovation areas are past normally expected life spans and should be replaced with equipment sized to serve the renovated areas. Units are fluid cooled A/C units each equipped with hydronic heating coil, refrigerant system, fan section, MERV-12 filters, and connection to cooling hydronic loop, heating hydronic loop, fresh air supply and DDC controls.
 - Quantity of new AHU's = 8.
 - Total cooling capacity = 42 Tons.
- 2. Duct work, diffusers and grilles should be replaced in all areas.
- 3. Current ventilation codes must be used to size fresh air requirements and some additional ventilation will need to be provided as compared to the existing systems.
 - All new ventilation duct work to connect existing fresh air supply in basement to all new AHU's; 2000 cfm.
 - · New matching exhaust system with exhaust blower and duct work; 2000 cfm
- 4. Reuse the majority of the existing perimeter heating system.
 - Provide all new zone valves and control.
 - Provide all new drain valves and vents.
 - Rework the majority of baseboard enclosure to match new plans and provide end caps and splice plates where needed; 70% of existing.
 - Add baseboard enclosure and end caps where needed; 30% of existing
- 5. Central piping systems will need some limited work to adapt to the new AHU's serving the renovated senior center including all new valves, sensors and flexible connections.
 - Quantity of new AHU's = 8.
- 6. Replacing the entire set of automatic temperature and ventilation controls for the building with a new direct digital controls (DDC) system is strongly recommended and would logically be done at the time of installing new HVAC for the senior center so that the control systems are compatible and integrated. This will provide significant energy savings for the building as a whole.
- 7. The existing boilers are both very inefficient. We recommend that the older boiler be removed from the boiler room and that a new high efficiency condensing mode boiler be added leaving the newer cast iron unit in place. The new boiler would be controlled using a fixed lead approach so most of the gas used will be burned at the higher efficiency. Sized



ARLINGTON SENIOR CENTER RENOVATIONS MEP & FP SYSTEMS

Page 4 of 5

the new boiler at around 80% of total design load building requirement This will provide significant energy savings for the building as a whole; likely at least 15% savings on gas for space heat.

- Demo existing boiler.
- Gas condensing mode boiler: 800,000 BTU/Hr.
- New close boiler piping, valves, hangers, and insulation.
- Side wall venting and combustion air intake.
- 8. Commercial Kitchen:
 - Range hood
 - Externally mounted exhaust fan
 - Make-up air system with fan duct work and exterior termination and interior grilles.
 - · Welded grease duct to externally mounted exhaust fan

ELECTRICAL

Existing Condition

<u>Power</u> Most of the electrical in the building dates from the 1984 renovation. Unfortunately the primary equipment manufacturer used in that work was Federal Pacific Electric Company (FPE). This company is no longer in business and is notorious for poorly performing equipment. In most cases no new work within these panels, load centers, disconnects can be performed without replacing the FPE equipment as well.

Lighting Most of the light fixtures in the building date from the 1984 renovation. Improvements in lamp type have been made to many of the fixtures. Lighting systems do not all meet current efficiency and code standards. Emergency lighting is provided by heads powered by remote battery packs and battery/light units.

<u>Fire Alarm</u> The fire alarm (FA) system is a Class-A addressable system with dial-out, and an enunciator panel in the entry lobby. The majority of the FA system was installed in 1984 and serves all areas. Additionally the fire alarm system panels have had an upgrade and a new addressable Fire Alarm Control Panel (FACP) has been installed.

<u>Security & IT</u> Security systems appear new and in excellent condition. Local IT was not investigated.

Electrical System Renovations

We assume the thermal envelope of the building is not being improved by the adding insulation to the exterior walls therefore the basic system capacity of existing systems matches what will be required. A significant exception is the requirement for additional fresh air ventilation top meet current codes.

The following are recommended system replacements and renovations to match the architectural renovations:

1. All new power systems: load centers, circuiting, connections to mechanical and lighting equipment, outlets and IT systems



ARLINGTON SENIOR CENTER RENOVATIONS MEP & FP SYSTEMS

Page 5 of 5

- 2. All new lighting based on LED fixtures, occupancy controlled switching, and daylight controls for perimeter rooms.
- 3. Reuse the battery powered emergency lighting with some additional units.
- 4. Reuse the existing fire alarm system and devices for all renovated areas, add additional units where required.
- 5. Retain existing security system which likely requires some attention to existing wiring that needs to be protected during construction.
- 6. Due to the safety concerns regarding the FPE equipment and assuming there has been no previous testing, we recommend that the main switch gear and load centers in the Boiler room be investigated using thermal imagery and for any new panel feeders consider replacing the FPE panel that they come from
- 7. The building can greatly benefit from all new outside lighting fixtures: each entry, (8) wall packs for sides, drive and back of building.

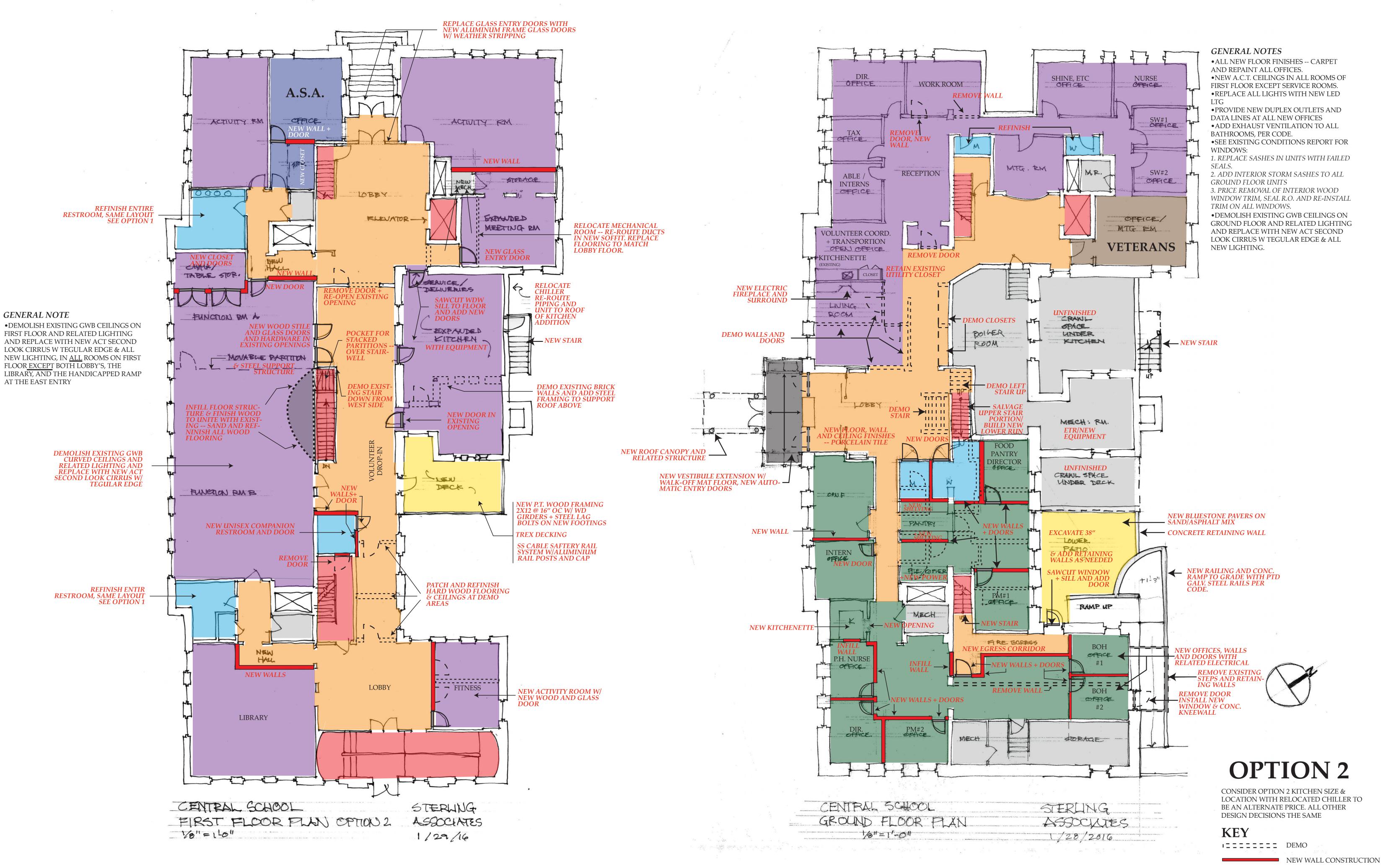
Please let us know of any questions you may have.

Sincerely, for NORIAN/SIANI ENGINEERING, INC.

Sergio F. Siani

Sergio F. Siani, LEED AP

SFS/klk



NEW DOOR



"Construction Cost Consultants"

Study Arlington Central School Senior Center Arlington, MA

April 11, 2016

GRAND SUMMARY

RENOVATION GF & 1ST FLOOR - OP	ΓΙΟΝ # 2			\$3,130,846
UPPER FLOOR SHELL & CORE UPGR	ADES:			
2ND FLOOR	7,812	GSF	\$50.00	\$390,600
3RD FLOOR W/1443 GSF DBL VOLUM	7,812	GSF	\$50.00	\$390,600
MEZZANINE	4,524	GSF	\$50.00	\$226,200
TENANT IMPROVEMENTS				NIC
T	OTAL DIRE	CT COST		\$4,138,246
GENERAL CONDITIONS		7.	5%	\$310,368
GENERAL REQUIREMENTS		2.	5%	\$111,215
P&P BOND AND INSURANCE		1.8	5%	\$84,357
PERMIT			0% waived	\$0
FEE			4%	\$185,767
DESIGN CONTINGENCY		10.	0%	\$464,419
ESCALATION (winter 2017)		3.	5%	\$185,303
T	OTAL CONS	TRUCTION	I COST	\$5,479,676

ALTERNATE:

OPTION NO. 1 - REVISED KITCHEN LAYOUT (\$140,439)	OPTION NO. 1 - REVISED KITCHEN LAYOUT	(\$140,439)
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PROJECT: LOCATION: CLIENT: DATE:	Arlington Central School Senior Cent Arlington, MA Sterling Associates, Inc 11-Apr-16	COST *Incl general 1 *Incl 190 GSF	D. OF SQ. FT.: PER SQ. FT.: reno 15,624 GSF entry addition kitchen addition	16,574 \$188.90 & reno
Project No: 16044	SUMMARY		RENOVATION - Ground & First flo	
		DIVISION	PERCENT	COST
		DIVISION TOTAL	OF PROJECT	COST PER SF
DIVISION 02 - E	XISTING CONDITIONS			
	OS REMEDIATION	10,000	0%	0.60
024116 BUILDIN		66,532	2%	4.01
DIVISION 03 - C	CONCRETE			
	PLACE CONCRETE	43,868	1%	2.65
DIVISION 04 - N	IASONRY			
042000 MASONR		29,210	1%	1.76
DIVISION 05 - N	IETALS			
	ANEOUS & ORNAMENTAL IRON*	90,274	3%	5.45
	JRAL STEEL FRAMING	46,650	1%	2.81
053100 STEEL DE		7,620	0%	0.46
	RMED METAL FRAMING	6,379	0%	0.38
DIVISION 06 - V	VOOD, PLASTICS & COMPOSITE	8		
061000 ROUGH C		20,880	1%	1.26
062000 FINISH C	ARPENTRY	100,182	3%	6.04
DIVISION 07 - T	HERMAL & MOISTURE PROTEC	TION		
	OR BARRIER, WATERPROOF. & CA		0%	0.64
075400 ROOFING	AND FLASHING*	26,781	1%	1.62
072100 BUILDIN	G INSULATION	65,017	2%	3.92
074213 SIDING A	ND TRIM	14,900	0%	0.90
DIVISION 08 - O	PENINGS			
085213 WINDOW	'S	117,500	4%	7.09
082500 DOOR OF	PENING ASSEMBLIES	158,615	5%	9.57
083313 COILING	COUNTER DOORS	3,500	0%	0.21
087100 FINISH H		10,500	0%	0.63
088000 GLASS A1		0	0%	0.00
089000 EXTERIO	R LOUVERS	1,500	0%	0.09
DIVISION 09 - F	INISHES			
092500 GYPSUM	WALLBOARD SYSTEMS	132,598	4%	8.00
093000 CERAMIC		94,003	3%	5.67
096519 RESILIEN	T FLOORING*	19,388	1%	1.17

	DIVISION	PERCENT	COST
	TOTAL	OF PROJECT	PER SF
099100 PAINTING*	52,722	2%	3.18
095100 ACOUSTICAL CEILINGS*	83,150	3%	5.02
095900 WOOD FLOORING	16,704	1%	1.01
096800 CARPETING	41,545	1%	2.51
098433 ACOUSTICAL WALL PANELS	43,200	1%	2.61
DIVISION 10 - SPECIALTIES			
101000 OPERABLE PARTITION	32,200	1%	1.94
101400 SIGNAGE	10,815	0%	0.65
102113 TOILET COMPARTMENTS	12,650	0%	0.76
102800 TOILET ACCESSORIES	11,085	0%	0.67
109000 MISCELLANEOUS SPECIALTIES	9,250	0%	0.56
DIVISION 11 - EQUIPMENT			
119000 EQUIPMENT	106,200	3%	6.41
DIVISION 12 - FURNISHINGS	• • • • •		
129000 FURNISHINGS	20,250	1%	1.22
DIVISION 14 - CONVEYING EQUIPMENT			
142400 ELEVATORS & LIFTS*	0	0%	0.00
DIVISION 21 - FIRE SUPPRESSION			
210000 FIRE SUPPRESSION*	63,234	2%	3.82
DIVISION 22 - PLUMBING			
220000 PLUMBING*	261,800	8%	15.80
	201,800	870	15.00
DIVISION 23 - HVAC			
230000 HVAC*	670,460	21%	40.45
DIVISION 26 - ELECTRICAL			
260000 ELECTRICAL*	507,720	16%	30.63
DIVISION 31 - EARTHWORK			
310000 EARTHWORK	20,000	1%	1.21
311000 SITE PREPARATION & CLEARING	12,500	0%	0.75
DIVISION 32 - EXTERIOR IMPROVEMENTS	7 7 000	20/	4 6 4
323100 SITE IMPROVEMENTS	76,900	2%	4.64
328000 IRRIGATION	0	0%	0.00

	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
329000 LANDSCAPING	2,000	0%	0.12
DIVISION 33 - UTILITIES 330000 UTILITIES	0	0%	0.00
DIRECT COST	3,130,846	100%	188.90

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 02 - EXISTING CONDITION	S			
022820 ASBESTOS REMEDIATION	-			
022020 ASDESTOS REMEDIATION				
Hazardous Waste Removal - Allow	1	LS	10,000.00	10,000
				10,000
024116 BUILDING DEMOLITION				
Building Exterior Remove Existing: Wind. @ new GF entry Masonry sill @ new GF entry GF door @ new ramp GF main entry dr & frame - sgl 1st Flr E & W entry dr & frame - dbl 1st Flr W entry storefront Wind @ kit addition Masonry sill @ new kit dr Misc. ext. demolition Building Interior Remove Existing: Misc. int. demolition	1 1 2 2 48 2 2 1 1 5,624	EA LOC EA EA SF EA LOC LS	150.00 300.00 150.00 225.00 275.00 7.00 250.00 300.00 1,000.00 4.00	150 300 150 450 550 336 500 600 1,000 62,496
DIVISION 03 - CONCRETE				
033000 CAST IN PLACE CONCRETE				
GF South Entry Addition: Wall ftg 2' x 1' x 36' Frost wall 1' x 4' x 36' 5" Slab on grade Tie fnd to exist	3 6 190 2	CY CY SF LOC	350.00 850.00 8.00 500.00	1,050 4,675 1,520 1,000
GF South Entry Canopy: Canopy col ftg & pier	4	EA	775.00	3,100

Prepared by: A. M. Fogarty & Associates, Inc. ARLINGTON CENTRAL SCHOOL SENIOR CENTER STUDY 4-11-164/12/20161:56 PM Arlington Central School Senior Center

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
7714 Laura A. J. 114 Laura				
Kitchen Addition: Wall ftg 2' x 1' x 21'	1.5	CY	350.00	525
Foundation wall 1' x 8' x 21'	6.5	CY CY	980.00	6,370
Metal deck fill	490	SF	6.00	2,940
Egress stair ftg	3	EA	400.00	1,200
4" Concrete stoop	30	SF	8.00	240
Crawl space - Slab on grade	490	SF	6.00	2,940
Tie fnd to exist	2	LOC	500.00	1,000
Misc. Foundations:				
GF North Entry Ramp	W /Site Imp			
Ground Floor Patio	W /Site Imp			
1st Floor Deck	W /Site Imp	rovements		
Infill GF slab @ plumbing trenching	1,000	SF	12.00	12,000
Metal Deck Fill @ Infill Opening:				
Function rm opening	76	SF	8.00	608
Infill stair opening		NIC		
Infill shaft opening		NIC		
Equipment pads	1	LS	2,500.00	2,500
New Metal Pan Stair fill:				
Main lobby GF - 1st	1	FLT	1,200.00	1,200
East lobby GF - 1st	1	FLT	1,000.00	1,000
				43,868
				45,000
DIVISION 04 - MASONRY				
042000 MASONRY*				
New Interior CMU:		NIC		
Cut & patch Interior masonry	1	LS	10,000.00	10,000
Exterior Masonry Restoration		NIC		
New Masonry Veneer:				
GF South Entry Addition		NIC		
GF South Entry Canopy col base	4	EA	750.00	3,000
GF North Entry Ramp	054	NIC	40.00	10.170
Kitchen Addition 12' H Masonry flashing	254 1	SF LS	40.00 800.00	10,160 800

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Cut in Repair Ext Masonry Openings:				
GF wind - new ext. dr open.	1	LOC	1,250.00	1,250
1st Flr wind - new kit open	2	LOC	1,250.00	2,500
Infill Ext Masonry Openings - Complete: GF Dr - new wind	1	LOC	1,500.00	1,500
				29,210

DIVISION 05 - METALS

055000 MISCELLANEOUS & ORNAMENTAL IRON*

New Stair & Rails :				
Main lobby GF - 1st	1	FLT	35,000.00	35,000
East lobby GF - 1st	1	FLT	20,000.00	20,000
Upgrade Int Stair:			5 000 00	
West lobby GF- 1st	1	FLT	5,000.00	5,000
East lobby 1st - upper levels		NIC		
Mechanical room stairs		Remain		
New Galv. Ext Stair & Rails:				
Kitchen egress	1	FLT	9,500.00	9,500
			- ,	-)
Op partition support frame	28	LF	150.00	4,200
Misc. int metals	16,574	GSF	1.00	16,574
				90,274
				, _ , _ ,.
				> 0,2 / 1
051200 STRUCTURAL STEEL ERAMING				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
051200 STRUCTURAL STEEL FRAMING				, , , , , , , , , , , , , , , , , , ,
051200 STRUCTURAL STEEL FRAMING Shore & Frame new Int wall opening:				, , <u>, , , , , , , , , , , , , , , , , </u>
	26	LF	225.00	5,850
Shore & Frame new Int wall opening:	26 1	LF LOC	225.00 3,500.00	·
Shore & Frame new Int wall opening: Kitchen @ wall rem'l	-			5,850
Shore & Frame new Int wall opening: Kitchen @ wall rem'l 1st flr @ new stair open 1st Floor Frame:	1			5,850 3,500
Shore & Frame new Int wall opening: Kitchen @ wall rem'l 1st flr @ new stair open 1st Floor Frame: Kitchen Addition	-	LOC	3,500.00	5,850 3,500 9,800
Shore & Frame new Int wall opening: Kitchen @ wall rem'l 1st flr @ new stair open 1st Floor Frame:	1	LOC	3,500.00	5,850 3,500
Shore & Frame new Int wall opening: Kitchen @ wall rem'l 1st flr @ new stair open 1st Floor Frame: Kitchen Addition	1 490	LOC	3,500.00	5,850 3,500 9,800
Shore & Frame new Int wall opening: Kitchen @ wall rem'l 1st flr @ new stair open 1st Floor Frame: Kitchen Addition Infill function rm opening	1 490	LOC GSF SF	3,500.00	5,850 3,500 9,800

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Flat Roof Frame: GF South Entry Addition	190	GSF	20.00	3,800
GF South Entry Canopy	100	GSF	20.00	2,000
Kitchen Addition	490	GSF	20.00	9,800
Seismic upgrades		NIC		
Dunnage & spring isol @ relocated RTU	1	LS	10,000.00	10,000
				46,650
053100 STEEL DECKING				
Floor Deck:				
Kitchen Addition	490	GSF	6.00	2,940
Roof Deck:				
GF South Entry Addition	190	GSF	6.00	1,140
GF South Entry Canopy	100	GSF	6.00	600
Kitchen Addition	490	GSF	6.00	2,940
				7,620
054000 COLD FORMED METAL FRAM	ING			
Ext. wall frame :				
GF South Entry Addition - 20%	72	SF	12.00	864
Kitchen Addition - 100%	254	SF	12.00	3,048
Ext. wall 1/2" Dens Glass Sheathing	326	SF	4.50	1,467
3" Soffit frame				
GF South Entry Canopy :	100	GSF	10.00	1,000
				6,379

DIVISION 06 - WOOD, PLASTICS & COMPOSITES

061000 ROUGH CARPENTRY

Addition Exterior Wall Blocking:

Arlington Central School Senior Center

4/11/2016

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
CE South Entry Addition 200/	72	SF	1.50	109
GF South Entry Addition - 20% Kitchen Addition - 100%	254	SF	1.50	108 381
Addition Roof Blocking:	02	IF	12.00	00/
Fascia	83	LF	12.00	996 1.16
Base flashing	97	LF	12.00	1,164
Interior blocking	16,574	GSF	0.35	5,80
Misc. rough carpentry	16,574	GSF	0.75	12,431
				20,880
				20,000
062000 FINISH CARPENTRY				
New Interior Wood Trim:				
MDF wall base	500	LF	5.50	2,75
Corridor & lobby chair rail	250	LF	35.00	8,75
Door trim		NIC		
Misc interior trim	16,574	GSF	0.50	8,28
Restore Interior Wood Trim:				
Window Sill and apron		W / 085000		
Window trim		W / 085000		
Misc interior trim	1	LS	5,000.00	5,00
Casework:				
Vestibule bench (2 EA)	15	LF	400.00	6,000
Lav Counter top (2 EA)	23	LF	265.00	6,09
Main lobby and entry	1	LS	5,000.00	5,00
Kitchenette (2 loc)	30	LF	500.00	15,00
West lobby wd shelving	1	LS	1,500.00	1,50
East lobby wd shelving	1	LS	1,500.00	1,50
COA service center	6	LF	300.00	1,80
Reception desk		NIC	15 000 00	15.00
Office counters	1	LS	15,000.00	15,00
Activity room casework	2	EA	5,000.00	10,00
Fireplace surround -complete	1	EA	3,500.00	3,50
Misc. casework allowance	1	LS	10,000.00	10,00

*Kitchen casework is included w/ 119000

100,182

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 07 - THERMAL & MOISTURE	PROTECTION			
071000 AIR/VAPOR BARRIER, WATERPH	ROOF. & CAULI	KING*		
Additions:				
Bit foundation dampproofing	228	SF	2.00	456
Ext joint sealants	1	LS	2,500.00	2,500
Addition applied air & vapor barrier	326	SF	5.50	1,793
Control/expansion joints	1	LS	2,500.00	2,500
Int. joint sealants	16,574	GSF	0.20	3,315
				10,564
075400 ROOFING AND FLASHING*				
Membrane Roof System:				
GF South Entry Addition	190	SF	22.00	4,180
GF South Entry Canopy	100	SF	22.00	2,200
Kitchen Addition	490	SF	22.00	10,780
Membrane flashing	1	LS	1,500.00	1,500
Fascia GF South Entry Addition	30	LF	35.00	1,050
Base flashing GF South Entry Addition	22	LF	28.00	616
Fascia GF South Entry Canopy	32	LF	35.00	1,120
Fascia Kitchen Addition	21	LF	35.00	735
Base flashing Kitchen Addition	75	LF	28.00	2,100
Misc flashing	1	LS	2,500.00	2,500
				26,781
072100 BUILDING INSULATION				
Additions:				
Rigid Slab Insul	190	SF	3.50	665
2" Rigid Insul foundation	228	SF	3.00	684
Kitchen crawl space clg	490	SF	3.50	1,715
Ext wall insul	326	SF	3.00	978
Renovation :				
Spray foam 6" @ brick fnd wall 3' H	1,662	SF	10.00	16,620
*Foundation wall with limited crawl space ac Ceiling of top floor	cess 7,812	SF	5.00	39,060
Kitchen roof-addition		oofing sys	5.00	57,000
	· · / I	Sound Sys		

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Kitchen roof	270	SF	5.00	1,350
West entry soffit	126	SF	5.00	630
Fire stopping *Excludes reinsulating exterior envelope	16,574	GSF	0.20	3,315
				65,017
074213 SIDING AND TRIM				
GF South Entry:				
Wall cladding 20%	72 4	SF	75.00	5,400
Canopy col cladding Canopy soffit panel	4 100	EA SF	1,500.00 35.00	6,000 3,500
	100	51	55.00	5,500
				14,900
DIVISION 08 - OPENINGS				
085213 WINDOWS				
Existing Windows:				
Replace unit w/ failed seal -allow	15	EA	1,700.00	25,500
GF int storm sash	31	EA	750.00	23,250
1st int storm sash (NIC W elev) Remove int wd trim, seal & reinstall trim	33 72	EA EA	750.00 500.00	24,750 36,000
Misc repairs -allow	1	LS	5,000.00	5,000
New Windows:				
Kitchen Addition	1	EA	1,500.00	1,500
GF North Entry Ramp	1	EA	1,500.00	1,500
				117,500
082500 DOOR OPENING ASSEMBLIES	3			
New Exterior Alum Door, Frame, Hdw, Gl	ass & Glazing:			
GF South Entry Addition - dbl	1	EA	8,000.00	8,000
GF North Entry Ramp -sgl	1	EA	4,000.00	4,000
1st Floor West Entry - dbl	1	EA	8,000.00	8,000
1st Floor Deck-sgl 1st Floor East Entry - dbl	1	EA EA	4,000.00 8,000.00	4,000 8,000
ist river last littly - dui	1	EA	0,000.00	0,000

New Exterior Storefront System: GF South Entry Addition246SF 85.00 GF North Entry RampNIC1st Floor West Entry48SF 85.00 New Interior Alum Door, Frame, Hdw, Glass & Glazing: GF South Entry Addition sgl 2EA $3,500.00$ 1st Floor West Entry $-dbl$ 1EA $7,200.00$ 1st Floor West Entry $-dbl$ 1EA $7,200.00$ New Interior Storefront System: GF South Entry Addition12SF 80.00 1st Floor West Entry63SF 80.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: Kitchen $-sgl$ 1EA $1,600.00$ New Interior Door, Frame, Hdw, Glass & Glazing $-$ Allow: Mechanical $-sgl$ 2EA $1,050.00$ Stair $-sgl$ 3EA $2,750.00$ 750.00 Toilet room multi user4EA $1,000.00$ Program space $-sgl$ 8EA $1,250.00$ Office suite $-sgl$ 3EA $1,250.00$ Office suite $-sgl$ 4EA $1,250.00$ Office suite $-sgl$ 4EA $1,250.00$ Office suite $-sgl$ 4EA $1,250.00$ Office $-sgl$ 8EA $1,250.00$ Office $-sgl$ 8EA $1,250.00$ Office suite $-sgl$ 4EA $1,250.00$ Office suite $-sgl$ 4EA $1,250.00$ Office suite $-sgl$ 4EA $1,250.00$ Mindow (6'x4' H - 4 EA)96SF 75.00 Our idelight (FOTAL	T COST	UNIT U	QUANTITY	DESCRIPTION
GF South Entry Addition 246 SF 85.00 GF North Entry Ramp NIC NIC 1st Floor West Entry 48 SF 85.00 New Interior Alum Door, Frame, Hdw, Glass & Glazing: GF South Entry Addition - sgl 2 EA $3,500.00$ 1st Floor West Entry - dbl 1 EA $7,200.00$ 1st Floor West Entry - dbl 1 EA $7,200.00$ New Interior Storefront System: GF South Entry Addition 12 SF 80.00 New Interior Storefront System: GF South Entry Addition 12 SF 80.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: Kitchen - sgl 1 EA $1,600.00$ New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Mechanical - sgl 2 EA $1,050.00$ Stair - sgl 3 EA $1,000.00$ 7500 750.00 750.00 Toilet room sgl user 3 EA $1,250.00$ 7600 7600.00 8 EA $1,250.00$ Program space - dbl 1 EA $2,500.00$ 7500 7500 75.00 75.00 <td></td> <td></td> <td></td> <td></td> <td></td>					
GF North Entry Ramp NIC 1st Floor West Entry 48 SF 85.00 New Interior Alum Door, Frame, Hdw, Glass & Glazing: GF South Entry Addition - sgl 2 EA 3,500.00 1st Floor West Entry - dbl 1 EA 7,200.00 1st Floor East Entry - dbl 1 EA 7,200.00 New Interior Storefront System: GF South Entry Addition 12 SF 80.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: Kitchen - sgl 1 EA 1,600.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Mechanical - sgl 2 EA 1,050.00 Stair - sgl 3 EA 1,000.00 Toilet room multi user 4 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Program space - sgl 8 EA 1,250.00 Office - sgl 3 EA 1,000.00 Office - sgl 8 EA 1,250.00 Office - sgl 4 EA 1,250.00 Storage - sgl 4 EA 1,400.0	20.010	95.00	0F	246	
1st Floor West Entry 48 SF 85.00 New Interior Alum Door, Frame, Hdw, Glass & Glazing: GF South Entry Addition - sgl 2 EA 3,500.00 1st Floor West Entry - dbl 1 EA 7,200.00 New Interior Storefront System: GF South Entry Addition 12 SF 80.00 New Interior Storefront System: GF South Entry 63 SF 80.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: Kitchen - sgl 1 EA 1,600.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Mechanical - sgl 2 EA 1,050.00 Stair - sgl 3 EA 2,750.00 Toilet room sgl user 3 EA 2,750.00 Toilet room multi user 4 EA 1,000.00 Rvitchen - sgl 8 EA 1,250.00 Program space - sgl 8 EA 1,250.00 Rvitchen - sgl 4 EA 1,400.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 1,400.00 Rvitchen - sgl 4 EA 1,250.00 Storage - dbl 4 EA <td>20,910</td> <td>85.00</td> <td></td> <td>246</td> <td>-</td>	20,910	85.00		246	-
GF South Entry Addition - sgl 2 EA 3,500.00 1st Floor West Entry - dbl 1 EA 7,200.00 1st Floor East Entry - dbl 1 EA 7,200.00 New Interior Storefront System: GF South Entry Addition 12 SF 80.00 1st Floor West Entry 63 SF 80.00 New Interior Storefront System: Kitchen - sgl 1 EA 1,600.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: Kitchen - sgl 2 EA 1,050.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Mechanical - sgl 3 EA 2,750.00 Toilet room sgl user 3 EA 1,000.00 10 Toilet room multi user 4 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Office site - sgl 4 EA 1,250.00 Office site - sgl 4 EA 1,250.00 Storage - sgl 4 EA 1,250.00 Office site - sgl 4 EA 1,250.00 Storage - sgl 4 EA 1,250.00 Storage - sgl 4	4,080	85.00		48	
GF South Entry Addition - sgl 2 EA 3,500.00 1st Floor West Entry - dbl 1 EA 7,200.00 1st Floor East Entry - dbl 1 EA 7,200.00 New Interior Storefront System: GF South Entry Addition 12 SF 80.00 Ist Floor West Entry 63 SF 80.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: Kitchen - sgl 1 EA 1,600.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Mechanical - sgl 2 EA 1,050.00 Stair - sgl 3 EA 2,750.00 Toilet room sgl user 3 EA 1,000.00 Toilet room sgl user 3 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Office room sgl user 3 EA 1,250.00 Office - sgl 4 EA 1,250.00 Office - sgl 4 EA 1,250.00 Office - sgl 4 EA 1,250.00 Office - sgl 4 EA 1,250.00 Storage - sgl 4 EA 1,250.00 Storage - sgl <td< td=""><td></td><td></td><td></td><td>lass & Glazing.</td><td>New Interior Alum Door Frame Hdw (</td></td<>				lass & Glazing.	New Interior Alum Door Frame Hdw (
1st Floor West Entry - dbl 1 EA 7,200.00 1st Floor East Entry - dbl 1 EA 7,200.00 New Interior Storefront System: GF SF 80.00 1st Floor West Entry 63 SF 80.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: Kitchen - sgl 1 EA 1,600.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Mechanical - sgl 2 EA 1,050.00 Stair - sgl 3 EA 2,750.00 Toilet room sgl user 3 EA 1,000.00 Toilet room multi user 4 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Program space - dbl 1 EA 2,500.00 Office - sgl 4 EA 1,250.00 Office - sgl 4 EA 1,250.00 Strage - sgl 4 EA 1,250.00 Office - sgl 4 EA 1,250.00 Strage - sgl 4 EA 1,250.00 Storage - sgl 4 EA 1,250.00 Storage - sgl 5 75.00 Modow (6'x4' H -	7,000	3 500 00	EA	-	
1st Floor East Entry - dbl 1 EA 7,200.00 New Interior Storefront System: GF South Entry Addition 12 SF 80.00 1st Floor West Entry 63 SF 80.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: Kitchen - sgl 1 EA 1,600.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: EA 1,050.00 Stair - sgl 2 EA 1,050.00 Stair - sgl 3 EA 2,750.00 Toilet room sgl user 3 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Program space - dbl 1 EA 2,500.00 Kitchen - sgl 3 EA 1,250.00 Office suite - sgl 3 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 1,250.00 Storage - sgl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: 105 SF 75.00 Ovor sidelight (1'-6" x 7' - 10 EA) 105	7,200				
GF South Entry Addition 12 SF 80.00 1st Floor West Entry 63 SF 80.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: I EA 1,600.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Image: Comparison of the	7,200	,			-
GF South Entry Addition 12 SF 80.00 1st Floor West Entry 63 SF 80.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: I EA 1,600.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Image: Comparison of the extension of the e					New Interior Storefront System
1st Floor West Entry 63 SF 80.00 New Exterior HM Door, Frame, Hdw, Glass & Glazing: Kitchen - sgl 1 EA 1,600.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Mechanical - sgl 2 EA 1,050.00 Stair - sgl 3 EA 2,750.00 Toilet room sgl user 3 EA 2,750.00 Toilet room sgl user 3 EA 1,000.00 Toilet room multi user 4 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Program space - dbl 1 EA 2,500.00 Office suite - sgl 3 EA 1,250.00 Office - sgl 8 EA 1,250.00 Office - sgl 8 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 950.00 Storage - sgl 4 EA 950.00 Storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: 00or sidelight (1'-6'' x 7' - 10 EA) 105 SF 75.00 75.00 1 083313 COILING COUNTER DOORS Allow: 1	960	80.00	SF	12	•
Kitchen - sgl 1 EA 1,600.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Mechanical - sgl 2 EA 1,050.00 Stair - sgl 3 EA 2,750.00 Toilet room sgl user 3 EA 2,750.00 Toilet room sgl user 3 EA 1,000.00 Toilet room multi user 4 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Program space - dbl 1 EA 2,500.00 Kitchen - sgl 8 EA 1,250.00 Office suite - sgl 4 EA 1,250.00 Office suite - sgl 4 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 1,250.00 Storage - sgl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00 1 1 083313 COILING COUNTER DOORS 1 EA 3,500.00 1	5,040				-
Kitchen - sgl 1 EA 1,600.00 New Interior Door, Frame, Hdw, Glass & Glazing - Allow: Mechanical - sgl 2 EA 1,050.00 Stair - sgl 3 EA 2,750.00 Toilet room sgl user 3 EA 2,750.00 Toilet room sgl user 3 EA 1,000.00 Toilet room multi user 4 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Program space - dbl 1 EA 2,500.00 Kitchen - sgl 8 EA 1,250.00 Office suite - sgl 4 EA 1,250.00 Office suite - sgl 4 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 1,250.00 Storage - sgl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00 1 1 083313 COILING COUNTER DOORS 1 EA 3,500.00 1				lass & Glazing:	New Exterior HM Door, Frame, Hdw, G
Mechanical - sgl 2 EA 1,050.00 Stair - sgl 3 EA 2,750.00 Toilet room sgl user 3 EA 1,000.00 Toilet room multi user 4 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Program space - dbl 1 EA 2,500.00 Kitchen - sgl 3 EA 1,100.00 Office suite - sgl 4 EA 1,250.00 Office suite - sgl 4 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 9,50.00 Storage - sgl 4 EA 9,50.00 Storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00 1 083313 COILING COUNTER DOORS	1,600	1,600.00	EA	-	
Stair - sgl 3 EA 2,750.00 Toilet room sgl user 3 EA 1,000.00 Toilet room multi user 4 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Program space - dbl 1 EA 2,500.00 Kitchen - sgl 3 EA 1,100.00 Office suite - sgl 4 EA 1,250.00 Office suite - sgl 4 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 9,250.00 Storage - sgl 4 EA 9,250.00 Storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00				c Glazing - Allow:	New Interior Door, Frame, Hdw, Glass &
Toilet room sgl user 3 EA 1,000.00 Toilet room multi user 4 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Program space - dbl 1 EA 2,500.00 Kitchen - sgl 3 EA 1,100.00 Office suite - sgl 4 EA 1,250.00 Office suite - sgl 4 EA 1,250.00 Office - sgl 4 EA 1,250.00 Storage - sgl 4 EA 1,250.00 Storage - sgl 4 EA 950.00 Storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00 1 1 083313 COILING COUNTER DOORS	2,100		EA	2	Mechanical - sgl
Toilet room multi user 4 EA 1,000.00 Program space - sgl 8 EA 1,250.00 Program space - dbl 1 EA 2,500.00 Kitchen - sgl 3 EA 1,100.00 Office suite - sgl 4 EA 1,250.00 Office suite - sgl 4 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 950.00 Storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00 1 083313 COILING COUNTER DOORS	8,250	2,750.00	EA		Stair - sgl
Program space - sgl 8 EA 1,250.00 Program space - dbl 1 EA 2,500.00 Kitchen - sgl 3 EA 1,100.00 Office suite - sgl 4 EA 1,250.00 Office suite - sgl 4 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 950.00 Storage - dbl 4 EA 950.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: 000 storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: 000 storage - dbl 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00	3,000	1,000.00	EA	3	
Program space - dbl 1 EA 2,500.00 Kitchen - sgl 3 EA 1,100.00 Office suite - sgl 4 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 950.00 Storage - sgl 4 EA 950.00 Storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00	4,000		EA		Toilet room multi user
Kitchen - sgl 3 EA 1,100.00 Office suite - sgl 4 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 950.00 Storage - dbl 4 EA 950.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00 1 083313 COILING COUNTER DOORS 1 EA 3,500.00	10,000			8	
Office suite - sgl 4 EA 1,250.00 Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 950.00 Storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: 000 Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00	2,500				•
Office - sgl 8 EA 1,250.00 Storage - sgl 4 EA 950.00 Storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: 0000 105 SF 75.00 Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00 083313 COILING COUNTER DOORS Allow: 1 EA 3,500.00	3,300				
Storage - sgl 4 EA 950.00 Storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00 1 083313 COILING COUNTER DOORS 1 EA 3,500.00	5,000				e
Storage - dbl 4 EA 1,400.00 HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00	10,000				•
HM Window and Sidelight Frame, Glass & Glazing - Allow: Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00 	3,800 5,600				6 6
Door sidelight (1'-6" x 7' - 10 EA) 105 SF 75.00 Window (6'x4' H - 4 EA) 96 SF 75.00 1083313 COILING COUNTER DOORS Allow: Kitchen 1 EA 3,500.00	-,	-,			-
Window (6'x4' H - 4 EA) 96 SF 75.00 083313 COILING COUNTER DOORS Allow: Kitchen 1 EA 3,500.00	7 075	75.00	0F	-	
083313 COILING COUNTER DOORS Allow: Kitchen 1 EA 3,500.00	7,875 7,200				- (
083313 COILING COUNTER DOORS Allow: Kitchen 1 EA 3,500.00					
Allow: Kitchen 1 EA 3,500.00	158,615				
Allow: Kitchen 1 EA 3,500.00					
Kitchen 1 EA 3,500.00					083313 COILING COUNTER DOORS
	0 - 0 -	2 500 00		_	
	3,500	3,500.00		1	
	3,500				

			4/11/2016
QUANTITY	UNIT U	JNIT COST	TOTAL
1	NIC LS	5,000.00	5,000
1 082500 & 085000	LOC NIC	5,500.00	5,500
			10,500
			0
1	LS	1,500.00	1,500
			1,500
MS			
326	SF NIC NIC	2.20	717
500 500 500 4,696 15,624	SF SF SF SF GSF	16.00 15.00 8.50 10.50	8,000 7,500 4,250 49,308
	1 1 082500 & 085000 1 MS 326 500 500 500	MS 1 LS 1 LOC NIC 082500 & 085000 1 LS MS 1 LS MS 1 LS NIC NIC S00 SF 500 SF 500 SF 500 SF	MS 1 LS 5,000.00 1 LOC 5,500.00 NIC 1 LS 1,500.00 MS 326 SF 2.20 NIC NIC 500 SF 16.00 500 SF 15.00 500 SF 5.00 500 SF 5.

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Gyp Ceilings:	100	COL	0.50	1.005
GF South Entry Addition	190	GSF	9.50	1,805
Reno Gyp ceiling - 25%	3,906	SF	9.50	37,107
Allow for Soffit and Transition *Gypsum wallboard includes tape & joint	16,574 compound finish	GSF	0.50	8,287
				132,598
093000 CERAMIC TILE *				
Toilet Room (7 EA):				
Porcelain floor tile - thin set	532	SF	20.00	10,640
Porcelain wall tile - 4'	960	SF	18.00	17,280
Marble threshold	7	LOC	65.00	455
Waterproofing membrane /crack sup. *Thin set installation	532	SF	8.00	4,256
Kitchen:				
Quarry Tile - this set	760	SF	18.00	13,680
QT Base	200	LF	9.50	1,900
Wall tile 4'	750	SF	18.00	13,500
Porcelain Tile:	72.0		22 0.0	16 500
GF main lobby & vestibule	730	SF	23.00	16,790
West lobby	674	SF	23.00	15,502
				94,003
096519 RESILIENT FLOORING*				
Floor prep	244	SF	1.50	366
Fitness rm flooring - cushioned vinyl	244	SF	13.00	3,172
Resilient Base	1	LS	3,500.00	3,500
*Excludes mechanical / storage rm flooring	g - shown grey			
Wood Stair Finishes -New Stair & Rails :				
Main lobby GF - 1st	1	FLT	7,500.00	7,500
East lobby GF - 1st	1	FLT	3,500.00	3,500
Rubber Stair Finishes- Upgrade Int Stair:			1 250 00	1 250
West lobby GF- 1st	1	FLT	1,350.00	1,350
East lobby 1st - upper levels		NIC		
Mechanical room stairs		NIC		

Arlington Central School Senior Center	
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4/11/2016

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				19,388
099100 PAINTING*				
Exterior Painting @ :				
GF South Entry Addition	1		1,000.00	1,000
GF South Entry Canopy Kitchen Addition	1	LS LS	1,000.00 1,000.00	1,000 1,000
*Excludes general exterior upgrades	1	LS	1,000.00	1,000
Interior painting - walls and ceiling Vinyl graphics & wall covering	16,574	SF NIC	3.00	49,722
				52,722
095100 ACOUSTICAL CEILINGS*				
Acoustical Ceiling Systems:				
Kitchen 24 x 24 x 2/4" ACT	760	SF	6.00	4,560
Reno 24 x 24 x 3/4" ACT - 75%	11,718	SF	5.00	58,590
Allow for feature and specialty ceilings	1	LS	20,000.00	20,000
				83,150
095900 WOOD FLOORING				
Wood floor - infill:				
Function rm	76	SF	20.00	1,520
Wood Floor - Patch & Refinish:				
Function rm	1,800	SF	4.00	7,200
1st E. lobby	437	SF	4.00	1,748
1st Hall Library	934 625	SF SF	4.00 4.00	3,736 2,500
				16,704

096800 CARPETING

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Carpet Tile (VCT Remains): Corridor	1 224	CE	5.00	(170
Office	1,234 4,734	SF SF	5.00 5.00	6,170 23,670
Activity rm	1,510	SF	5.00	7,550
Living rm	331	SF	5.00	1,655
Misc. floor prep	1	LS	2,500.00	2,500
				41,545
098433 ACOUSTICAL WALL PANELS				
Fabric wrapped wall panel - allow				
Main lobby	200	SF	36.00	7,200
West lobby	200	SF	36.00	7,200
East lobby	200	SF	36.00	7,200
Function rm	600	SF	36.00	21,600
				43,200
DIVISION 10 - SPECIALTIES				
101000 OPERABLE PARTITION				
28' x 10' Operable partition (1 loc)	280	SF	115.00	32,200
				32,200
101400 SIGNAGE				
Interior Signage Exterior Signage	16,574	GSF LS	0.20 7,500.00	3,315
Exterior Signage	1	LS	7,500.00	7,500
				10,815

102113 TOILET COMPARTMENTS

Floor/Wall Mtd. Solid Plastic Toilet Partition - Allow:

Arlington Central S	School	Senior	Center
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4/11/2016

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Stee Jand	E	EA	1 200 00	(000
Standard Barrier free	5 4	EA EA	1,200.00	6,000
Urinal screen	4 2	EA EA	1,500.00 325.00	6,000 650
offilial screen	2	LA	525.00	050
				12,650
102800 TOILET ACCESSORIES				
Paper towel dispenser / disposal	7	EA	225.00	1,575
Electric hand dryer		NIC		
Mirrors - framed	16	EA	350.00	5,600
Soap dispenser	16	EA	40.00	640
Sanitary prod disposal Grab bars toilet	6 14	EA EA	60.00	360
Coat hook	14	EA EA	85.00 18.00	1,190 216
Toilet tissue dispenser	12	EA	42.00	504
Diaper deck	2	EA	500.00	1,000
				11,085
109000 MISCELLANEOUS SPECIAI	LTIES			
Lobby tack board	3	EA	750.00	2,250
Elec fireplace	1	EA	2,000.00	2,000
Fire extinguisher & cab	6	EA	475.00	2,850
Corner Guards	1	LS	1,500.00	1,500
Janitor shelf w/mop holder	1	EA	150.00	150
Misc. special ties	1	LS	500.00	500
				9,250
DIVISION 11 - EQUIPMENT				,
119000 EQUIPMENT				
Exercise equipment		NIC		
AV equipment		NIC		
Kitchen equipment	1	LS	100,000.00	100,000

Residential Appliances:

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Health office GF kitchenette	1 2	LS EA	1,200.00 2,500.00	1,200 5,000
				106,200
DIVISION 12 - FURNISHINGS				
129000 FURNISHINGS				
Surface Entry mat GF Window shades 1st flr Window shades Function rm motor op black out shade	4 31 41 7	EA EA EA EA	1,500.00 125.00 125.00 750.00	6,000 3,875 5,125 5,250
				20,250
DIVISION 14 - CONVEYING EQUIPMEN	ЛТ			
142400 ELEVATORS & LIFTS*		REMAINS		
				0
DIVISION 21 - FIRE SUPPRESSION				
210000 FIRE SUPPRESSION*				
Rework exist sys	15,624	GSF	3.50	54,684
New System @: GF South Entry Addition Kitchen Addition Kitchen Renovation	190 490 270	GSF GSF GSF	9.00 9.00 9.00	1,710 4,410 2,430
				63,234
DIVISION 22 - PLUMBING 220000 PLUMBING*				
Demolition & disconnects	1	LS	2,500.00	2,500

Prepared by: A. M. Fogarty & Associates, Inc. ARLINGTON CENTRAL SCHOOL SENIOR CENTER STUDY 4-11-164/12/20161:56 PM Arlington Central School Senior Center

4/11/2016

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
New Fixtures -allow:				
Water closet	16	EA	1,800.00	28,800
Urinal	2	EA	1,500.00	3,000
Wall hung lavatory	8	EA	1,250.00	10,000
Ctr lavatory Water cooler	8 2	EA	1,050.00	8,400
	4	EA EA	3,200.00	6,400
Kitchenette/program sink MOP sink	4	EA EA	1,300.00 1,300.00	5,200 2,600
Fixture rough in	42	EA	3,800.00	159,600
Kitchen rough in	42	LA	10,000.00	10,000
-	1	LS	10,000.00	10,000
Drainage -allow: Toilet RM Floor drain		NIC		
Kitchen Floor drain	2	EA	1,200.00	2,400
Vestibule & canopy roof drainage	2	EA	1,200.00	2,400
Equipment:				
Sewage ejector		NIC		
Gas piping	1	LS	2,500.00	2,50
Gas water heater	1	LS	7,500.00	7,50
Water heater valve and trim	1	LS	2,500.00	2,500
Underground Water Service:		EXISTING		
Misc. Plumbing	1	LS	5,000.00	5,000
As built, permit and test	1	LS	3,000.00	3,000
				261,800
DIVISION 23 - HVAC				
230000 HVAC*				
HVAC -reno	15,624	GSF	40.00	624,960
HVAC:				
GF South Entry Addition	190	GSF	40.00	7,600
Kitchen Addition	490	GSF	40.00	19,600
Kitchen Renovation	270	GSF	40.00	10,800
Relocate chiller to kitchen roof	1	LS	7,500.00	7,50
Elev shaft Ventilation		Existing		
				670,460

Arlington Central School Senior Center

4/11/2016

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 26 - ELECTRICAL				
260000 ELECTRICAL*				
Electrical - reno	15,624	GSF	30.00	468,720
Electrical: GF South Entry Addition GF South Entry Canopy GF North Entry Ramp Kitchen Addition Kitchen Renovation 1st Floor Deck Ground Floor Patio	190 100 1 490 270 1 1	GSF GSF LS GSF GSF LS LS	$\begin{array}{r} 30.00\\ 30.00\\ 2,500.00\\ 30.00\\ 30.00\\ 2,500.00\\ 2,500.00\end{array}$	5,700 3,000 2,500 14,700 8,100 2,500 2,500 2,500
DIVISION 31 - EARTHWORK				
310000 EARTHWORK				
Earthwork @: GF South Entry Addition GF South Entry Canopy GF North Entry Ramp Kitchen Addition 1st Floor Deck Ground Floor Patio Ground slab @ new plumbing	1 1 1 1 1 1 1	LS LS LS LS LS LS LS	3,000.00 1,500.00 3,000.00 5,000.00 2,500.00 2,500.00 2,500.00	3,000 1,500 3,000 5,000 2,500 2,500 2,500
				20,000
311000 SITE PREPARATION & CLEARING Misc. Site Preparation @:	G			
GF South Entry Addition & Canopy GF North Entry Ramp Kitchen Addition 1st Floor Deck Ground Floor Patio	1 1 1 1	LS LS LS LS LS	2,000.00 2,000.00 2,000.00 2,000.00 2,000.00	2,000 2,000 2,000 2,000 2,000 2,000

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Phasing/occupancy/logistics	1	LS	2,500.00	2,500
				12,500
DIVISION 32 - EXTERIOR IMPROVEM	1ENTS			
323100 SITE IMPROVEMENTS				
Pavement patch @ utilities		NIC		
GF South Entry Addition: Pavers to match 8" Gravel base *Assumes entry drop off drive to remain	200 5	SF CY	20.00 28.00	4,000 140
GF North Entry Ramp: Conc ramp wall (NIC masonry veneer) Guardrail Wall rail Approach - 4" Concrete walk Ramp slab 8" Gravel base	72 72 40 200 305 13	LF LF SF SF CY	$125.00 \\ 275.00 \\ 115.00 \\ 8.00 \\ 8.00 \\ 35.00$	9,000 19,800 4,600 1,600 2,440 438
Ground Floor Patio: Conc retaining wall Pavers 8" Gravel base Replace Bit foundation dampproofing	9 344 8.5 1	LF SF CY LS	300.00 30.00 35.00 1,000.00	2,700 10,320 298 1,000
Kitchen Addition: Approach - 4" Concrete walk 8" Gravel base	100 3	SF CY	8.00 45.00	800 135
1st Floor Deck: Found wall Crawl space gravel PT deck framing Trex decking Guard rail Misc trim & finishing	32 258 258 258 258 32 1	LF SF SF SF LF LS	$115.00 \\ 2.00 \\ 15.00 \\ 8.00 \\ 250.00 \\ 1,500.00$	3,680 516 3,870 2,064 8,000 1,500
Misc Site improvements -allowance		NIC		
				76 900

76,900

Arlington Central School Senior Center				4/11/2016
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
328000 IRRIGATION				
526000 IRRIGATION				
Irrigation system		NIC		
				0
329000 LANDSCAPING				
Restore disturbed areas Planting -allowance	1	LS NIC	2,000.00	2,000
				2,000
DIVISION 33 - UTILITIES				
330000 UTILITIES				
Water Supply:				
Fire Service Domestic Service		Remains Remains		
Sanitary: Sanitary service		Remains		
Kitchen grease trap		NIC		
Site Drainage :				
GF South Entry Addition		NIC		
GF North Entry Ramp		NIC		
Ground Floor Patio		NIC		
Fuel Distribution:		Remains		
Electrical:				
Transformer pad		Remains		
Generator pad		NIC		

0

PROJECT:	Arlington Central School Senior Center
LOCATION:	Arlington, MA
CLIENT:	Sterling Associates, Inc
DATE:	11-Apr-16

ALTERNATES

OPTION NO. 1 - REVISED KITCHEN LAYOUT

(\$140,439)

Arlington Central School Senior Center - Alternates			4/11/2016	
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

OPTION NO. 1 - REVISED KITCHEN LAYOUT

Delete: Kitchen Addition	-189	GSF	100.00	-18,900
Dunnage & spring isol @ relocated RTU Relocate chiller to kitchen roof	-1 -11	LS LS	10,000.00 7,500.00	-10,000 -82,500
Ground Floor Patio	-1	LS	8,365.00	-8,365
Add: 1st Floor Deck	82	GSF	75.00	6,150
SUBTOTAL GENERAL CONDITIONS		0 %		-113,615 0
SUBTOTAL GENERAL REQUIREMENTS		2.5 %	1	-113,615 -2,840
SUBTOTAL P&P BOND AND INSURANCE		1.85 %	1	-116,455 -2,154
SUBTOTAL PERMIT		0 %		-118,610 0
SUBTOTAL FEE		4 %		-118,610 -4,744
SUBTOTAL				-123,354

Prepared by: A. M. Fogarty & Associates, Inc. ARLINGTON CENTRAL SCHOOL SENIOR CENTER STUDY 4-11-16

Arlington Centra	l School	Senior	Center -	- Alternates
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4/11/2016

DESCRIPTION	QUANTITY	UNIT UNIT COST	TOTAL
DESIGN CONTINGENCY		10 %	-12,335
SUBTOTAL ESCALATION		3.5 %	-135,690 -4,749
TOTAL ALTERNATE NO. 1			-140,439