

School Administration Offices
Nixon School Addition
Town of Sudbury

Conceptual / Schematic Cost Estimate

Prepared by :
Construction Monitoring Services, Inc.
November 4, 2015



Conceptual / Schematic Estimate

CLIENT: Town of Sudbury, MA
 ARCHITECT: Architectural Resources Cambridge
 PROJECT: School Administration Suite
 SIZE (gsf): 9,044 GSF
 LOCATION: Nixon School - Sudbury, MA
 ESTIMATOR: Construction Monitoring Services, Inc.
 PLAN DATE: October 19, 2015
 TODAY'S DATE: November 4, 2015



Estimate of Total Project Costs

<u>Construction:</u>	See Attached		\$	4,322,833
<u>OPM Services:</u>	4% of Construction Costs - Estimate		\$	172,913
<u>Designer Services:</u>	10% of Construction Costs - Estimate		\$	432,283
<u>Indirect Owner Expenses:</u>			\$	251,000
	Commissioning:	Estimate for MEP Elements Only	\$	30,000
	Survey:	If Necessary	\$	5,000
	Geotech	Borings (1 Day w/ Report)	\$	5,000
	Peer Review	If Necessary	\$	3,500
	FF&E	Estimate - From Owner	\$	40,000
	Technology	Switches / Racks / Wireless (By Owner)	\$	100,000
	Relocation	Assumes Furniture + Contents	\$	35,000
	Reproduction	Plans, Specs & Electronic Distribution	\$	5,000
	Legal / Advertising	Estimate - Contract Review	\$	7,500
	Testing	Construction Materials Testing	\$	20,000
<u>Subtotal:</u>			\$	5,179,030
<u>Owner's Contingency:</u>	7.5% of Project Costs		\$	388,427
<u>Total Estimated Project Cost:</u>			\$	5,567,457

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DIVISION SUMMARY

CSI DIVISION:

	Renovation	Addition
2 - Existing Conditions		40,000
3 - Concrete		202,056
5 - Metals		312,698
6 - Wood & Plastic		185,867
7 - Thermal Protection		342,823
8 - Openings		159,110
9 - Finishes		522,621
10 - Specialties		40,200
11 - Equipment		6,450
12 - Furnishings		8,275
21 - Fire Protection	128,250	38,475
22 - Plumbing		110,137
23 - HVAC	120,750	379,763
26 - Electric	37,500	298,049
31 - Site Prep		62,720
32 - Site Improvements		25,800
33 - Site Utilities		83,275
SUBTOTAL :	\$ 286,500	\$ 2,818,315

GENERAL CONDITIONS SUMMARY:

DESIGN CONTINGENCY -10%	310,482
BONDS - GC & SUBS - 2%	68,306
GENERAL CONDITIONS - 9 Mos x \$35K	315,000
GC PROFIT - 2.5%	94,965
BUILDING PERMIT - Included	0
ESCALATION - 5% / yr x 2 yrs	429,266

ESTIMATED CONSTRUCTION COST: \$ 4,322,833

Conceptual Estimate
 School Administration Offices - Nixon School
 Sudbury, MA



CSI Format		Renovation	Addition	
			9,044 GSF	\$/SF
2 - Demolition			\$ 40,000	\$ 4.42
3 - Concrete			\$ 202,056	\$ 22.34
5 - Metals			\$ 312,698	\$ 34.58
	Structural Steel	\$ 209,820		
	Misc Metals	\$ 102,878		
6 - Wood & Plastic			\$ 185,867	\$ 20.55
	Rough Carpentry	\$ 54,367		
	Finish Carpentry	\$ 131,500		
7 - Thermal Protection			\$ 342,823	\$ 37.91
	Damproofing & Waterproofing	\$ 15,400		
	Thermal Insualtion	\$ 30,675		
	Vapor Barrier	\$ 15,023		
	Composite Siding (Hardi)	\$ 76,460		
	Roofing - Membrane	\$ 165,255		
	Firestopping	\$ 5,000		
	Joint Sealants	\$ 35,010		
8 - Openings			\$ 159,110	\$ 17.59
	HM Doors	\$ 55,950		
	Storefront	\$ 23,600		
	Windows	\$ 71,560		
	Glass / Glazing	\$ 8,000		
9 - Finishes			\$ 522,621	\$ 57.79
	Drywall Assemblies	\$ 318,862		
	Ceramic Tile	\$ 29,937		
	Acoustic Ceilings	\$ 45,275		
	Resilient Flooring	\$ 49,882		
	Carpet	\$ 27,315		
	Painting	\$ 51,350		
10 - Specialties			\$ 40,200	\$ 4.44
	Visual Display Boards	\$ 18,750		
	Signage	\$ 5,800		
	Toilet Partitions	\$ 3,850		
	Corner Guards / Wall Guards	\$ 8,500		
	Toilet Accessories	\$ 2,400		
	Fire Protection Items	\$ 900		
11 - Equipment			\$ 6,450	\$ 0.71
	Appliances	\$ 4,300		
	A/V Equipment	\$ 2,150		
12 - Furnishings			\$ 8,275	\$ 0.91
	Window Treatment	\$ 6,875		
	Mats / Grilles	\$ 1,400		
21 - Fire Protection		\$ 128,250	\$ 38,475	\$ 4.25

	22 - Plumbing		\$ -		\$ 110,137	\$ 12.18
	23 - HVAC		\$ 120,750		\$ 379,763	\$ 41.99
	26 - Electric		\$ 37,500		\$ 298,049	\$ 32.96
	31 - Site Prep				\$ 62,720	\$ 6.93
		Site Prep		\$ 24,350		
		Excavation & Backfill		\$ 38,370		
	32 - Site Improvements				\$ 25,800	\$ 2.85
		Site Improvements		\$ 17,800		
		Landscaping		\$ 8,000		
	33 - Site Utilities				\$ 83,275	\$ 9.21
		Water		\$ -		
		Sanitary		\$ 31,000		
		Drain		\$ 31,425		
		Gas		\$ -		
		Electric		\$ 20,850		
TOTALS:			\$ 286,500		\$ 2,818,319	\$ 311.62

Estimate Summary - Sudbury - School Administration Suite

Detail - Without Taxes and Insurance

Group 1: Area
Group 2: Divisions
Group 3: MasterFormat

Estimator :
Project Size : 9000 SF

ItemCode	Description	Quantity	UM	Tot.UnitCost	TotalCost	
ADDN Addition						
02 Sitework						
024119 Selective structure demolition						
02000.001	Selective Demo / Allowance	1.00	LS	40,000.000	40,000.00	
*** Total 024119 Selective structure demolition					40,000.00	
311000 Site clearing						
02200.100	Site Perimeter Construction Fencing w/ Gat	600.00	LF	8.000	4,800.00	
02200.105	Site Entrance - Tracking Mats	2.00	EACH	3,500.000	7,000.00	
02200.110	Temporary Site / Construction Signs	1.00	EACH	1,500.000	1,500.00	
02200.131	Silt Fence	600.00	Lnft	4.000	2,400.00	
02200.175	E/SC - Maintenance	9.00	MO	350.000	3,150.00	
02230.015	Remove Site Fence / Asphalt	1.00	LS	2,500.000	2,500.00	
02230.050	Strip & Stockpile Loam	12,000.00	SF	0.250	3,000.00	
*** Total 311000 Site clearing					24,350.00	
312000 Earthmoving						
02316.100	Site Cut / Fill - Rough Grade	12,000.00	SF	0.150	1,800.00	
02316.110	Foundation Excavation - Bldg Foot print	1,350.00	CY	8.000	10,800.00	
02316.115	Foundation Backfill - Reuse Ext'g Materials	650.00	CY	22.000	14,300.00	
02316.120	Crushed Stone at Bldg Foundations / SOG	170.00	CY	35.000	5,950.00	
02316.999	Dispose of Surplus Soils (Transfer to Town)	920.00	CY	6.000	5,520.00	
*** Total 312000 Earthmoving					38,370.00	
320000 Site improvements						
02740.020	Asphalt Pavement - Patch trenches	100.00	SQYD	23.000	2,300.00	
02760.015	Striping Allowance	1.00	LS	1,500.000	1,500.00	
02760.100	Exterior Directional Signage	1.00	LS	1,500.000	1,500.00	
02770.215	Granite curb - Remove & Reset (As needed)	400.00	LNFT	20.000	8,000.00	
02900.150	Stone Mow Strip at Bldg Perimeter	300.00	LF	15.000	4,500.00	
*** Total 320000 Site improvements					17,800.00	
329000 Planting						
02900.100	Landscaping - Planting Allowance	1.00	LS	5,000.000	5,000.00	
02900.110	Seeded Area	5,000.00	SF	0.350	1,750.00	
02900.120	Screen, Amend & Spread Loam	100.00	CY	12.500	1,250.00	
*** Total 329000 Planting					8,000.00	
331000 Water utilities						
02510.000	*** Domestic Water Service / Fire Service**					
02510.100	Live-Tap - Service		EACH	1,500.000		
02510.103	8" ductile iron		LNFT	85.000		
02510.103	8" ductile iron		LNFT	60.000		
02510.104	8" DI Fittings		EACH	550.000		
02510.201	6" DI Gate valve w/ Box		EACH	2,400.000		
02510.202	6" DI Pipe		LF	75.000		
02510.301	4" gate Valve w/ Box		EACH	2,500.000		
02510.302	4" DI Fittings		EACH	450.000		
02510.303	4" DIP		LF	65.000		
*** Total 331000 Water utilities						
333000 Sanitary sewers						
02530.000	*** Sanitary Sewer ***					
02530.012	6" gravity sewer (SDR 35) pipe	100.00	LNFT	56.500	5,650.00	
02530.015	Duplex Ejector Pump to Existing	1.00	EA	12,500.000	12,500.00	
02530.100	Sewer MH - 4' Dia (6 VF)	1.00	EACH	2,800.000	2,800.00	
02530.150	Sewer Precast Tank	1.00	EACH	8,500.000	8,500.00	
02530.200	Sanitary MH - Tie-In to Existing	1.00	EACH	1,550.000	1,550.00	
*** Total 333000 Sanitary sewers					31,000.00	
334000 Storm drain utilities						

Estimate Summary - Sudbury - School Administration Suite

Detail - Without Taxes and Insurance

Group 1: Area
Group 2: Divisions
Group 3: MasterFormat

Estimator :
Project Size : 9000 SF

ItemCode	Description	Quantity	UM	Tot.UnitCost	TotalCost
02630.000	*** Storm Drainage ***				
02630.100	Storm Drain Manholes	3.00	EACH	2,850.000	8,550.00
02630.200	Storm Drainage - 6" Perimeter Drain	250.00	LNFT	46.500	11,625.00
02630.205	Storm Drainage - Relocate Existing Storm L	250.00	LNFT	45.000	11,250.00
	*** Total 334000 Storm drain utilities				31,425.00
	337000 Electric utilities				
02580.001	*** Site Electric ***				
02580.041	Site light pole base	5.00	EACH	1,650.000	8,250.00
02580.200	E&B - Comm to Boiler Room	50.00	LF	26.000	1,300.00
02580.202	E&B - Power to Boiler Room	50.00	LF	26.000	1,300.00
02580.210	E&B - Site Lighting	500.00	LF	20.000	10,000.00
	*** Total 337000 Electric utilities				20,850.00
	** Total 02 Sitework				211,795.00
	03 Concrete				
	030000 Concrete				
03109.891	** Forms **		SQFT		
03110.100	Footing forms	846.00	SQFT	10.000	8,460.00
03110.120	Foundation wall / pier forms	4,208.00	SQFT	12.000	50,496.00
03210.010	**** Rebar - Footings & Foudations ****	1.00	****		
03210.165	Foundation Rebar	7.00	TONS	2,200.000	15,400.00
03310.150	**Concrete in Footings **		****		
03310.155	Concrete - Footings - 4000 PSI	46.00	CY	285.000	13,110.00
03310.250	**Concrete in walls**	1.00	****		
03310.255	Concrete - Foundation Walls & Piers - 400	91.00	CY	310.000	28,210.00
03310.332	Concrete Pump Expense	2.00	DAY	1,500.000	3,000.00
03310.350	**Concrete in slab on grade**		****		
03310.365	Sidewalk Allowance	1,000.00	SF	6.500	6,500.00
03310.368	Slabs On Grade - Exterior Canopy x 6" th	250.00	SF		
03310.369	Slabs on Grade - 5-6" th	8,551.00	SF		
03310.371	Wire Mesh (+ 10% Laps)	10,800.00	SF	2.250	24,300.00
03310.374	Premium to Form Recessed Slabs	50.00	SF	6.000	300.00
03310.374	Concrete - Slabs on Grade - 4000 PSI	180.00	CUYD	110.000	19,800.00
03310.375	Place & Finish SOG's	8,800.00	SF	3.000	26,400.00
03310.380	Concrete Pump Expense	1.00	Day	1,500.000	1,500.00
03310.385	Control Joints	8,800.00	SF	0.350	3,080.00
03310.400	Misc Concrete - Equipment Pads	1.00	LS	1,500.000	1,500.00
	*** Total 030000 Concrete				202,056.00
	** Total 03 Concrete	17,784.00	CUYD	11.362	202,056.00
	05 Metals				
	051200 Structural steel framing				
05129.010	Misc. Connections (5% Gross Weight)		Incl		
05129.010	Structural steel frame - W Sections	9,044.00	GSF	14.000	126,616.00
05129.011	Structural steel frame - Columns	18.00	EA		
05310.018	Metal Roof Deck	9,044.00	SQFT	3.700	33,462.80
05415.100	Bar Joist Roof Framing System	9,044.00	SF	5.500	49,742.00
	*** Total 051200 Structural steel framing				209,820.80
	055000 Metal fabrications				
05510.041	Roof / Truss Access Ladders	2.00	EA	3,500.000	7,000.00
05520.011	Miscellaneous Metals	8,551.00	GSF	2.500	21,377.50
05525.100	Roof Railing (Allowance)	50.00	LF	150.000	7,500.00
05525.110	Hand Railing (Entrances - Allowance)	20.00	LF	150.000	3,000.00
05525.115	Eq't Screen - Galv Tube Steel w/ Louver	512.00	SF	125.000	64,000.00
	*** Total 055000 Metal fabrications				102,877.50
	** Total 05 Metals	18.00	CWT	17,372.128	312,698.30
	06 Wood and plastics				

Estimate Summary - Sudbury - School Administration Suite

Detail - Without Taxes and Insurance

Group 1: Area
Group 2: Divisions
Group 3: MasterFormat

Estimator :
Project Size : 9000 SF

ItemCode	Description	Quantity	UM	Tot.UnitCost	TotalCost
061000 Rough carpentry					
06110.555	2x6xRL blocking - Top of Siding Panels	382.00	LF	43.119	16,471.42
06110.556	Plywood Sheathing - Top of Parapet at Flat	382.00	LNFT	29.188	11,149.93
06110.565	2x6 Blocking - Windows & Doors	650.00	LF	11.500	7,475.00
06110.575	Blocking at Interior Partition Walls	8,550.00	GSF	2.156	18,431.24
06110.585	Plywood Back Boards at IT Closet	240.00	SF	3.500	840.00
*** Total 061000 Rough carpentry					54,367.59
064000 Architectural woodwork					
06400.101	*** Interior Finish Carpentry ***				
06400.101	Allowance - Misc Wood trim	8,550.00	GSF	5.000	42,750.00
06400.101	Window Frames	600.00	LF	5.500	3,300.00
06400.102	Sills / Aprons	25.00	EA	200.000	5,000.00
06400.121	Lower Counters w/ Cabinets - Allowance	100.00	LF	300.000	30,000.00
06400.121	Mail Boxes - Allowance	10.00	LF	600.000	6,000.00
06400.121	Upper Counters - Allowance	100.00	LF	250.000	25,000.00
06400.140	Storage - Shelves on Adj Standards	200.00	LF	50.000	10,000.00
06400.143	Admin - Counter w/ UC Storage	14.00	LF	600.000	8,400.00
06400.999	Coat Rod & Shelf at Closets	3.00	EACH	350.000	1,050.00
*** Total 064000 Architectural woodwork					131,500.00
** Total 06 Wood and plastics					185,867.59
07 Thermal and moisture protection					
071000 Dampproofing and waterproofing					
07260.120	Dampproofing / Drainage Mat @ Foundation	2,800.00	SF	5.500	15,400.00
*** Total 071000 Dampproofing and waterproof					15,400.00
072100 Thermal insulation					
07210.012	3" rigid insulation - Foundation Walls	2,300.00	SQFT	2.750	6,325.00
07210.015	1-1/2" Rigid Insulation - Underslab	8,550.00	SQFT	2.000	17,100.00
07460.170	3" Insulation - Mineral Wool	2,900.00	SF	2.500	7,250.00
*** Total 072100 Thermal insulation					30,675.00
072600 Vapor retarders					
07260.011	Vapor barrier @ slab (w/ Laps)	9,300.00	SQFT	0.524	4,873.20
07260.115	AVB at Sliding	2,900.00	SF	3.500	10,150.00
*** Total 072600 Vapor retarders					15,023.20
074600 Siding					
07460.165	Cement Composite Siding w/ Z-Clip & Chan	2,900.00	SF	24.000	69,600.00
07460.185	1" PVC Exterior Sill / Apron	280.00	SF	12.000	3,360.00
07460.600	Exterior Soffits	250.00	SQFT	14.000	3,500.00
*** Total 074600 Siding					76,460.00
075000 Membrane roofing					
07530.020	Roof Insulation - 4"	9,400.00	SF	5.000	47,000.00
07530.021	Tapered Insulation at Crickets	120.00	SF	4.250	510.00
07530.025	TPO roofing w/ Turn-up at Edge	9,500.00	SF	9.000	85,500.00
07530.030	Cap Flashing at Perimeter	382.00	LF	35.000	13,370.00
07530.035	Flashing to Curbs	3.00	EACH	3,350.000	10,050.00
07530.050	Tie-In at Roof Drains	4.00	EACH	500.000	2,000.00
07530.100	Canopy roofing and finish	250.00	Sqft	12.500	3,125.00
07720.060	Roof hatch w/ Railings	1.00	EACH	3,700.000	3,700.00
*** Total 075000 Membrane roofing					165,255.00
078400 Firestopping					
07840.100	Firestopping - General	1.00	LS	5,000.000	5,000.00
*** Total 078400 Firestopping					5,000.00
079200 Joint sealants					
07900.100	Sealants at Exterior Siding System	2,800.00	SF	2.500	7,000.00

Estimate Summary - Sudbury - School Administration Suite

Detail - Without Taxes and Insurance

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Estimator :
Project Size : 9000 SF

ItemCode	Description	Quantity	UM	Tot.UnitCost	TotalCost
07900.160	Sealants - Exterior Windows & Doors	600.00	LF	9.000	5,400.00
07900.175	Misc Sealants - Interior / Exterior	9,044.00	SF	2.500	22,610.00
*** Total 079200 Joint sealants					35,010.00
** Total 07 Thermal and moisture protection					342,823.20
08 Doors and windows					
081000 Doors					
08100.150	Interior HM Frames - Single Door	11.00	EACH	250.000	2,750.00
08100.155	Interior HM Frames - Single Door w/ Sidelig	20.00	EA	350.000	7,000.00
08100.160	Interior HM Frames - Double Door	1.00	EACH	275.000	275.00
08100.190	Interior HM Frames for Borrowed Lite - 4' w	1.00	EACH	175.000	175.00
08100.195	Interior HM Frames for Borrowed Lite - 8' W	3.00	EACH	350.000	1,050.00
08115.100	Rating (premium)	1.00	EACH	150.000	150.00
08150.100	Wood Door & Hardware (per Leaf)	33.00	EACH	750.000	24,750.00
08150.200	HM Doors & Hardware (per leaf)	33.00	EACH	600.000	19,800.00
*** Total 081000 Doors					55,950.00
084300 Storefronts					
08410.010	Storefront - Int/Ext at Vestibules w/ Glazing	120.00	SQFT	80.000	9,600.00
08410.155	Aluminum Glazed Doors - Double Leaf	4.00	EACH	3,500.000	14,000.00
*** Total 084300 Storefronts					23,600.00
085000 Windows					
08510.010	Windows - Operable	868.00	SF	70.000	60,760.00
08510.015	Windows - Fixed Skylights - 6'x6'	72.00	SF	150.000	10,800.00
*** Total 085000 Windows					71,560.00
088000 Glazing					
08800.175	Interior Door Side lights	20.00	EACH	400.000	8,000.00
*** Total 088000 Glazing					8,000.00
** Total 08 Doors and windows					159,110.00
09 Finishes					
092116 Drywall assemblies					
09210.011	Exterior LGMF Back-Up Wall	5,200.00	SQFT	11.750	61,100.00
09260.011	Interior Partitions - 4" mtl stud frame	1,100.00	SQFT	3.500	3,850.11
09260.012	Interior Partitions - 6" mtl stud frame	12,450.00	SQFT	4.500	56,022.51
09260.020	Sound Batt Insulation	13,550.00	SQFT	1.650	22,357.50
09260.045	Metal stud and gypsum soffit - Allowance	750.00	SQFT	8.500	6,375.00
09275.200	Hang Exterior Gyp (Densglass)	5,200.00	SF	3.000	15,600.00
09275.300	Hang Gypsum Board - 5/8" Type X	27,100.00	SF	3.000	81,300.00
09275.325	Hang Tile Backer Panels	340.00	SF	8.000	2,720.00
09275.350	Tape & Sand GWB Surfaces - Walls	22,000.00	SF	3.000	66,000.00
09275.360	Tape & Sand GWB Surfaces - Ceilings & S	750.00	SF	2.050	1,537.50
09750.225	Exterior Soffits / Clgs at Canopies	100.00	SF	20.000	2,000.00
*** Total 092116 Drywall assemblies					318,862.62
093000 Tile					
09310.130	Porcelain Floor Tile	479.00	SQFT	15.500	7,424.50
09310.135	Porcelain Tile Base	126.00	LF	12.000	1,512.00
09310.175	Ceramic Tile Wainsscot	1,200.00	SF	17.000	20,400.00
09310.180	Thresholds	2.00	EACH	300.000	600.00
*** Total 093000 Tile					29,936.50
095100 Acoustical ceilings					
09510.046	Acoustic Ceilings - 2x2	7,800.00	SQFT	5.750	44,850.00
09510.052	Premium - MR Tile at Bath, Showers & Loc	340.00	SF	1.250	425.00
*** Total 095100 Acoustical ceilings					45,275.00
096500 Resilient flooring					
09651.105	Resilient Flooring - Vinyl Tile	1,771.00	SF	6.750	11,954.25

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Detail - Without Taxes and Insurance

Group 1: Area
Group 2: Divisions
Group 3: MasterFormat

Estimator :
Project Size : 9000 SF

ItemCode	Description	Quantity	UM	Tot.UnitCost	TotalCost
09651.120	Resilient Base	2,105.00	LF	2.750	5,788.75
09651.198	Moisture Mitigation	8,550.00	SF	3.500	29,925.00
09651.199	Floor Prep at Resilient Areas	1,771.00	SF	1.250	2,213.75
*** Total 096500 Resilient flooring					49,881.75
096800 Carpet					
09680.220	Carpet Tile - Interior	596.00	SQYD	45.000	26,819.94
09680.225	Carpet Tile - Walk-Off	11.00	SY	45.000	495.00
*** Total 096800 Carpet					27,314.94
099000 Painting					
09950.100	Sealed Concrete Flooring	300.00	SF	2.500	750.00
09970.125	Paint HM Frames	35.00	EA	360.000	12,600.00
09970.130	Paint Ext Steel Framing at Canopies	2.00	EACH	1,500.000	3,000.00
09970.165	Painted GWB	22,000.00	SF	1.500	33,000.00
09970.180	Painted GWB Soffits / Ext'r Ceilings	1,000.00	SF	2.000	2,000.00
*** Total 099000 Painting					51,350.00
** Total 09 Finishes					522,620.81
10 Specialties					
101100 Visual display surfaces					
10145.010	Visual display (White board) - Allowance	15.00	EACH	750.000	11,250.00
10145.250	Tackable Surfaces (Tack Boards) - Allowan	10.00	EACH	750.000	7,500.00
*** Total 101100 Visual display surfaces					18,750.00
101400 Signage					
10140.100	Interior Door Signs	36.00	EACH	50.000	1,800.00
10140.110	Exterior Bldg Identification - Allowance	1.00	LS	2,500.000	2,500.00
10140.115	Plaques - Allowance	1.00	LS	1,500.000	1,500.00
*** Total 101400 Signage					5,800.00
102113 Toilet compartments					
10210.100	Toilet Partitions - HP	2.00	EACH	675.000	1,350.00
10210.115	Toilet Partitions	2.00	EACH	750.000	1,500.00
10210.125	Toilet Partitions - Urinal Screen	2.00	EACH	500.000	1,000.00
*** Total 102113 Toilet compartments					3,850.00
102613 Corner guards					
10260.020	Wall bumpers - Allowance	250.00	LNFT	24.000	6,000.00
10260.025	Exterior Corner Guards - Allowance	1.00	LS	2,500.000	2,500.00
*** Total 102613 Corner guards					8,500.00
102813 Toilet accessories					
10810.050	Kltchen / Break Accessories	1.00	EACH	600.000	600.00
10810.125	Toilet Accessories - Multi-Fixture Toilet Roo	2.00	EACH	650.000	1,300.00
10810.150	Custodial Accessories	1.00	EA	500.000	500.00
*** Total 102813 Toilet accessories					2,400.00
104413 Fire extinguisher cabinets					
10520.160	Fire extinguisher cabinet	3.00	EACH	300.000	900.00
*** Total 104413 Fire extinguisher cabinets					900.00
** Total 10 Specialties					40,200.00
11 Equipment					
113100 Appliances					
11405.005	Refrigerator - Full Height	1.00	Each	1,800.000	1,800.00
11405.010	Microwave	1.00	EACH	500.000	500.00
11405.015	Cook Top	1.00	EACH	1,500.000	1,500.00
11405.020	Range Hood	1.00	EACH	500.000	500.00
*** Total 113100 Appliances					4,300.00
115200 Audio visual equipment					

Estimate Summary - Sudbury - School Administration Suite

Detail - Without Taxes and Insurance

Group 1: Area
Group 2: Divisions
Group 3: MasterFormat

Estimator :
Project Size : 9000 SF

ItemCode	Description	Quantity	UM	Tot.UnitCost	TotalCost
11130.020	Projection screen electric operated	1.00	EACH	2,150.000	2,150.00
	*** Total 115200 Audio visual equipment				2,150.00
	** Total 11 Equipment				6,450.00
12 Furnishings					
122000 Window treatment					
12100.100	Exterior Window Treatments	25.00	EA	175.000	4,375.00
12100.125	Interior Window Treatments (Allowance)	25.00	EACH	100.000	2,500.00
	*** Total 122000 Window treatment				6,875.00
124800 Rugs and mats					
12480.010	Entrance mats / Grilles	50.00	SQFT	28.000	1,400.00
	*** Total 124800 Rugs and mats				1,400.00
	** Total 12 Furnishings				8,275.00
15 Mechanical					
210000 Fire protection					
15000.100	*** Fire Supression - Wet System ***	1.00	EACH		
15000.101	Wet Sprinkler System - Complete at Additio	8,550.00	SF	4.500	38,475.00
15000.105	Fire Service - 6" Main		LN FT	65.000	
15000.110	Fire Service - 4" Distribution		LNFT	45.000	
15000.115	Fire Service - 3" Distribution		LNFT	35.000	
15000.120	Fire Service - 2" Distribution		LNFT	30.000	
15000.125	Fire Service - 1" Branch		LNFT	21.000	
15000.130	Sprinkler Heads - Recessed		EACH	75.000	
15000.200	Zone Control Valves - 4"		EACH	2,200.000	
15000.210	4" Check Valve		EACH	1,500.000	
15000.215	Double Back-Flow - 6"		EACH	6,500.000	
15000.220	4" Stortz FDC		EACH	1,500.000	
	*** Total 210000 Fire protection				38,475.00
220000 Plumbing					
15100.050	*** Plumbing Equipment ***		EACH		
15100.055	Water Heater (20Gal/4.5kW)	1.00	EACH	5,000.000	5,000.00
15100.060	Circulator Pumps (Zone at HWH)	1.00	EACH	1,500.000	1,500.00
15100.065	Expansion Tank	1.00	EACH	1,500.000	1,500.00
15100.075	Mixing Valve Assembly	1.00	EACH	1,500.000	1,500.00
15100.080	Plumbing Equipment Valves & Piping	1.00	LS	2,500.000	2,500.00
15140.300	*** Domestic Water Piping ***		LNFT		
15140.301	Domestic HW Distribution (General)	8,550.00	GSF	2.750	23,512.50
15140.305	1/2" Water		LNFT	15.000	
15140.310	3/4" Water		LNFT	20.000	
15140.315	1-1/4" Water		LNFT	24.000	
15140.320	1-1/2" Water		LNFT	36.000	
15140.325	2" Water		LNFT	43.000	
15140.350	Valves		LS	5,000.000	
15150.100	*** Drain, Waste & Vent ***		LNFT		
15150.105	DWV - Below Grade (General)	8,550.00	GSF	3.500	29,925.00
15150.110	2" Drain, Waste & Vent		LNFT	34.000	
15150.115	3" Drain, Waste & Vent		LNFT	35.000	
15150.120	4" Drain, Waste & vent		LNFT	39.000	
15150.122	4" Clean-Out		EACH	275.000	
15150.125	6" Drain, Wate & Vent - Below Grade		EACH	55.000	
15150.200	*** Drain, Waste & Vent - Above Grade ***		LNFT		
15150.205	2" Drain, Waste & Vent		LNFT	36.000	
15150.210	4" Drain, Waste & Vent		LNFT	48.000	
15160.160	*** Storm Piping ***				
15160.161	Storm Piping - General	8,550.00	GSF	2.000	17,100.00
15160.165	Storm - Below Grade		LNFT	80.000	

Estimate Summary - Sudbury - School Administration Suite

Detail - Without Taxes and Insurance

Group 1: Area
Group 2: Divisions
Group 3: MasterFormat

Estimator :
Project Size : 9000 SF

ItemCode	Description	Quantity	UM	Tot.UnitCost	TotalCost
15160.260	*** Storm Piping - Above Grade ***		LNFT		
15160.265	4" Storm		LF	38.000	
15160.270	5" Storm		LNFT	51.000	
15160.275	6" Storm		LNFT	58.000	
15400.100	**** Plumbing - Fixtures ****				
15400.101	Water Closet	4.00	EACH	2,000.000	8,000.00
15400.103	Urinal	2.00	EACH	1,750.000	3,500.00
15400.105	Wall Hung Lavatory	2.00	EACH	900.000	1,800.00
15400.107	Kitchen / Wellness - Sink	2.00	EACH	1,300.000	2,600.00
15400.108	Custodial Sink / Mop Receptor	1.00	EACH	650.000	650.00
15400.109	Electric Water Cooler	1.00	EACH	2,500.000	2,500.00
15400.110	Floor Drains w/ Trap Primer	3.00	EACH	1,200.000	3,600.00
15400.115	Exterior Hose Bib	3.00	EACH	300.000	900.00
15400.116	Interior Hose Bib	3.00	EACH	350.000	1,050.00
15400.130	Roof Drain w/ Overflow	2.00	EACH	1,500.000	3,000.00
	*** Total 220000 Plumbing				110,137.50
	230000 HVAC				
15700.000	*** HVAC - Equipment ***	1.00	EACH		
15700.010	RTU - Allowance for Dx Rooftop Unit	8,550.00	GSF	8.750	74,812.50
15700.025	Exhaust Fans	2.00	EACH	2,500.000	5,000.00
15700.050	VAV Terminal Units - Allowance	12.00	EACH	1,750.000	21,000.00
15700.060	CUH - Vestibules & Bathrooms	4.00	EA	2,000.000	8,000.00
15700.070	Ductless AC Units (Server Room)	1.00	EACH	5,000.000	5,000.00
15700.086	Fin Tube Perimeter Radiation (Allowance)	240.00	LF	120.000	28,800.00
15700.100	*** HVAC Piping ***				
15700.101	S/R Piping Loop	8,550.00	GSF	3.750	32,062.50
15700.102	Service Connections to Misc Equipment	16.00	EACH	350.000	5,600.00
15700.125	Ductwork	8,550.00	GSF	11.750	100,462.50
15700.150	Flex Drops to Registers	50.00	EACH	250.000	12,500.00
15700.160	Registers, Diffusers & Grilles	100.00	EACH	320.000	32,000.00
15700.170	HVAC Controls - Proprietary (Match Existin	8,550.00	SF	5.500	47,025.00
15700.180	HVAC - Testing & Balance (Air & Water)	1.00	LS	7,500.000	7,500.00
	*** Total 230000 HVAC				379,762.50
	** Total 15 Mechanical				528,375.00
	16 Electrical				
	260000 Electrical				
16045.100	Grounding - Complete	8,550.00	SF	1.500	12,825.00
16100.100	*** Power Distribution Equipment & Panels				
16100.120	Panel LP (120/208V) w/ Feeder	1.00	EACH	4,500.000	4,500.00
16100.130	Panel PP (120/208V) w/ Feeder	1.00	EACH	9.000	9.00
16100.135	Panel MP (120/208V) w/ Feeder	1.00	EACH	9,500.000	9,500.00
16100.150	Surge Protection Device (EA PANEL)	3.00	EACH	2,500.000	7,500.00
16100.500	*** Power to Equipment ***				
16100.520	Power Feed to RTU's	1.00	EACH	2,500.000	2,500.00
16100.525	Power Feed to Boilers	3.00	EACH	1,250.000	3,750.00
16100.530	Power Feed to EF	2.00	EACH	1,250.000	2,500.00
16100.535	Power to Ductless Cooling Units	1.00	EACH	1,500.000	1,500.00
16100.540	Power to Pumps	2.00	EACH	1,200.000	2,400.00
16100.555	Power Feed to VAV Boxes	14.00	EACH	1,100.000	15,400.00
16100.600	*** Power Devices ***		EACH		
16100.601	Power Distribution / Devices - General	8,550.00	SF	3.500	29,925.00
16100.605	Receptacles - 30A		EACH	125.000	
16100.610	Receptacles - Duplex		EACH	75.000	
16100.615	Receptacles - Quad		EACH	100.000	
16100.620	Receptacles - Duplex GFCI		EACH		
16100.625	Receptacles - Quad GFCI		EACH	110.000	
16100.630	Receptacle - Floor Box w/ Conduit & Devic		EACH	250.000	

Estimate Summary - Sudbury - School Administration Suite

Detail - Without Taxes and Insurance

Group 1: Area
Group 2: Divisions
Group 3: MasterFormat

Estimator :
Project Size : 9000 SF

ItemCode	Description	Quantity	UM	Tot.UnitCost	TotalCost
16100.635	Receptacle - Duplex GFCI w/ Exterior Box		EACH	135.000	
16100.650	Branch Circuitry to Devices		ALLOW	25,000.000	
16100.700	*** Fire Alarm ***		EACH		
16300.710	Fire Alarm - Extension of Existing Services	8,550.00	SF	2.500	21,375.00
16300.710	Reprogramming of Existing		EACH	2,500.000	
16300.720	Heat Detector		EACH	100.000	
16300.720	Smoke w/ remote Indicator		EACH	150.000	
16300.725	Smoke		EACH	85.000	
16300.730	Pull Station		EACH	125.000	
16300.735	Strobe Only		EACH	85.000	
16300.740	Horn / Strobe		EACH	120.000	
16300.740	Radio Master Box		EACH	3,500.000	
16300.750	KNOX Box		EACH	1,000.000	
16300.755	Exterior Alarm Beacon		EACH	750.000	
16325.100	*** Security ***				
16325.101	Extend Existing Systems	8,550.00	GSF	1.250	10,687.50
16325.126	Door Contacts	2.00	EACH		
16325.150	Card Readers - Exterior	2.00	EACH		
16325.165	IP Cameras (interior)		EACH		
16325.165	IP Cameras - Exterior		EACH		
16325.175	Conduit & Box for Security Devices	4.00	EACH	135.000	540.00
16330.300	*** Public Address ***				
16330.310	Intercom & Clock - Expansion of Ex'g Syste	8,550.00	GSF	1.000	8,550.00
16420.000	*** Lighting ***				
16420.100	Exterior / Site Lighting (Allowance)	5.00	EACH	4,000.000	20,000.00
16420.105	Interior Lighting - Allowance	8,550.00	GSF	6.500	55,575.00
16420.110	Lighting Controls - Allowance	8,550.00	GSF	2.750	23,512.50
16611.900	*** Technology ***				
16611.901	Conduit & Back Boxes - Allowance	100.00	EACH	150.000	15,000.00
16611.905	Floor Boxes (Box with Conduit)	6.00	EACH	650.000	3,900.00
16611.910	AIPhone System	1.00	EACH	3,000.000	3,000.00
16611.911	Data		EACH		
16611.915	Voice		EACH		
16611.918	Voice - Data		EACH		
16611.920	Voice - Data - Data		EACH		
16611.925	Projector Interface		EACH		
16611.930	Video		EACH		
16611.935	Wireless Access Node		EACH		
16611.940	CAT 6 Cabling - Drops	100.00	EACH	225.000	22,500.00
16611.950	IDF Closet - Racks & Fiber Link	1.00	EACH	6,000.000	6,000.00
16629.110	Site Lighting - 2" PVC - Allowance	600.00	LF	6.000	3,600.00
16629.110	Site Lighting - Pull Box at Pole Base	5.00	EACH	300.000	1,500.00
16629.110	Site Lighting - Site Pull Box	2.00	EACH	1,250.000	2,500.00
16960.100	Temp Electrical - Lighting Service & Distrib	1.00	LS	7,500.000	7,500.00
	*** Total 260000 Electrical				298,049.00
	** Total 16 Electrical				298,049.00
	* Total ADDN Addition				2,818,319.90
	RENO Renovation to Existing School				
	15 Mechanical				
	210000 Fire protection				
15000.102	Wet System - Retrofit at Ext'g School	28,500.00	SF	4.500	128,250.00
	*** Total 210000 Fire protection				128,250.00
	230000 HVAC				
15700.030	Boiler & Breaching (R&R Existing)	3.00	EACH	25,000.000	75,000.00
15700.040	Circulator Pumps	2.00	EACH	1,750.000	3,500.00
15700.045	HW Pumps w/ VFD	2.00	EACH	5,500.000	11,000.00

Estimate Summary - Sudbury - School Administration Suite

Detail - Without Taxes and Insurance

Group 1: Area

Group 2: Divisions

Group 3: MasterFormat

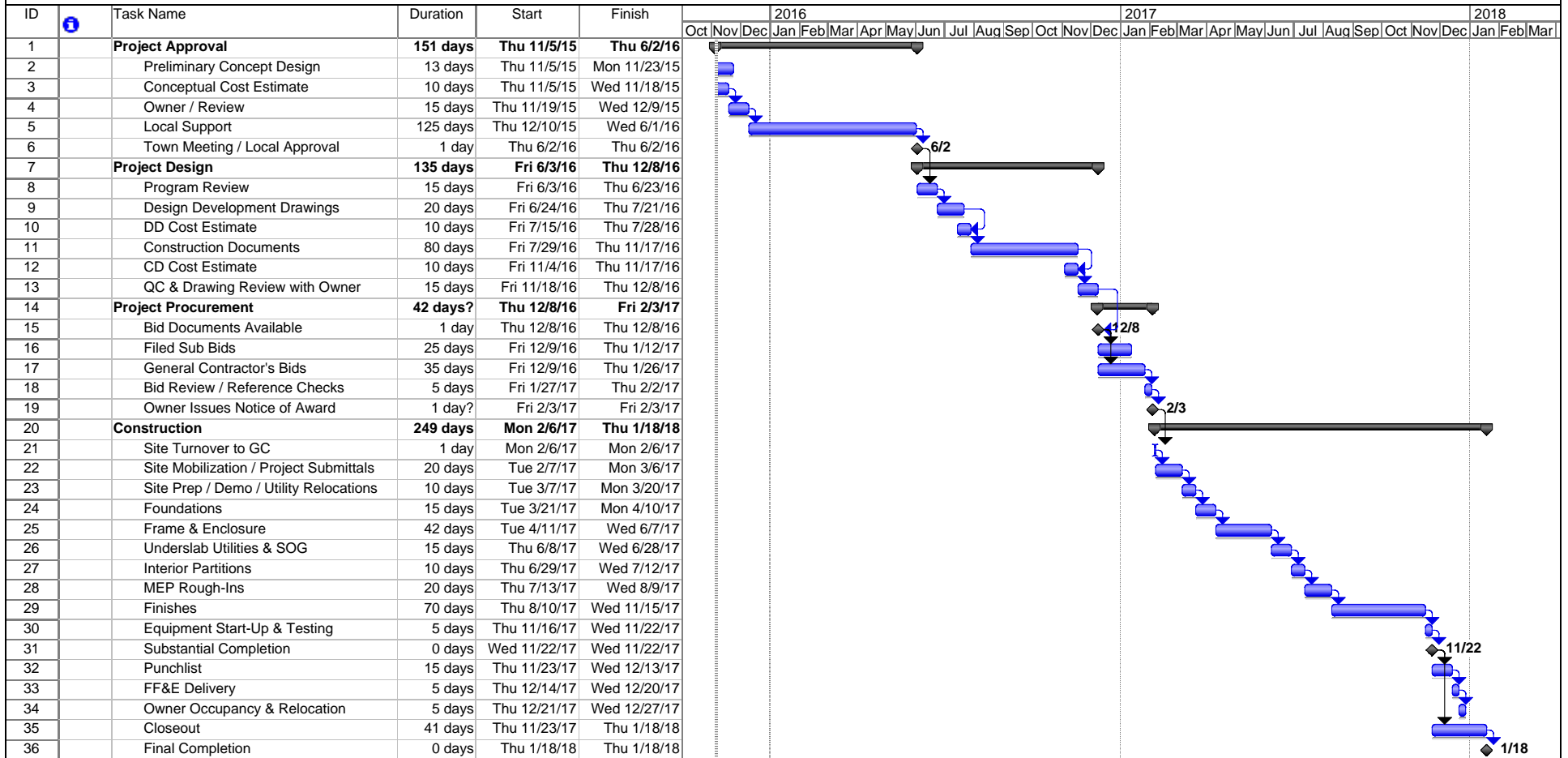
Estimator :

Project Size : 9000 SF

ItemCode	Description	Quantity	UM	Tot.UnitCost	TotalCost
15700.065	R&R Existing HVAC Equipment in End Clss	1.00	LS	10,000.000	10,000.00
15700.101	S/R Piping Loop - New Mains to Boiler Roo	150.00	LF	75.000	11,250.00
15700.175	Control Modifications to Existing Boilers	1.00	LS	10,000.000	10,000.00
*** Total 230000 HVAC					120,750.00
** Total 15 Mechanical					249,000.00
16 Electrical					
260000 Electrical					
16050.000	Secondary Power - Feeders to Addition (3x	450.00	LF	50.000	22,500.00
16100.110	MDP - New Breakers at Existing MDP	3.00	EACH	5,000.000	15,000.00
*** Total 260000 Electrical					37,500.00
** Total 16 Electrical					37,500.00
* Total RENO Renovation to Existing School					286,500.00
Total Direct Cost					3,104,819.90



School Administration Suite Nixon School Addition



Project: Sudbury Admin Suite Nixon A Date: Thu 11/5/15	Task Milestone External Tasks
	Split Summary External Milestone
	Progress Project Summary Deadline